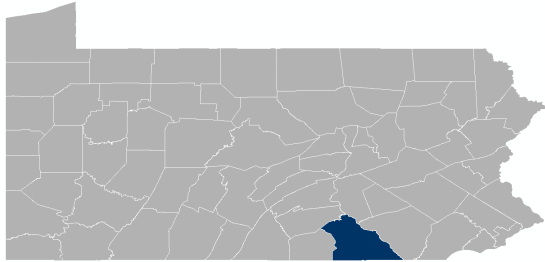


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 5



YORK COUNTY, PENNSYLVANIA

(ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
BOROUGH OF CROSS ROADS	422209	BOROUGH OF SEVEN VALLEYS	420936	TOWNSHIP OF HELLAM	420927
BOROUGH OF DALLASTOWN*	422739	BOROUGH OF SHREWSBURY*	422748	TOWNSHIP OF HOPEWELL	422222
BOROUGH OF DELTA	422211	BOROUGH OF SPRING GROVE	420938	TOWNSHIP OF JACKSON	422223
BOROUGH OF DILLSBURG	420919	BOROUGH OF STEWARTSTOWN*	422744	TOWNSHIP OF LOWER CHANCEFORD	420930
BOROUGH OF DOVER	422569	BOROUGH OF WELLSVILLE	420940	TOWNSHIP OF LOWER WINDSOR	421187
BOROUGH OF EAST PROSPECT*	422740	BOROUGH OF WEST YORK*	420941	TOWNSHIP OF MANCHESTER	420931
BOROUGH OF FAWN GROVE	422570	BOROUGH OF WINDSOR	420942	TOWNSHIP OF MANHEIM	422224
BOROUGH OF FELTON	420922	BOROUGH OF WINTERSTOWN*	422745	TOWNSHIP OF MONAGHAN	422225
BOROUGH OF FRANKLINTOWN*	422741	BOROUGH OF WRIGHTSVILLE	420943	TOWNSHIP OF NEWBERRY	422226
BOROUGH OF GLEN ROCK	420924	BOROUGH OF YOE	420944	TOWNSHIP OF NORTH CODORUS	422227
BOROUGH OF GOLDSBORO	420925	BOROUGH OF YORK HAVEN	420946	TOWNSHIP OF NORTH HOPEWELL	422228
BOROUGH OF HALLAM	420926	BOROUGH OF YORKANA*	422746	TOWNSHIP OF PARADISE	420934
BOROUGH OF HANOVER	422212	CITY OF YORK	420945	TOWNSHIP OF PEACH BOTTOM	422229
BOROUGH OF JACOBUS	420928	TOWNSHIP OF CARROLL	422216	TOWNSHIP OF PENN	421025
BOROUGH OF JEFFERSON*	422742	TOWNSHIP OF CHANCEFORD	422217	TOWNSHIP OF SHREWSBURY	422230
BOROUGH OF LEWISBERRY	420929	TOWNSHIP OF CODORUS	421142	TOWNSHIP OF SPRING GARDEN	420937
BOROUGH OF LOGANVILLE*	422213	TOWNSHIP OF CONEWAGO	420918	TOWNSHIP OF SPRINGETTSBURY	421031
BOROUGH OF MANCHESTER	422747	TOWNSHIP OF DOVER	420920	TOWNSHIP OF SPRINGFIELD	422231
BOROUGH OF MOUNT WOLF	421021	TOWNSHIP OF EAST HOPEWELL	422218	TOWNSHIP OF WARRINGTON	422232
BOROUGH OF NEW FREEDOM	420932	TOWNSHIP OF EAST MANCHESTER	420921	TOWNSHIP OF WASHINGTON	421150
BOROUGH OF NEW SALEM	422743	TOWNSHIP OF FAIRVIEW	420923	TOWNSHIP OF WEST MANCHESTER	422233
BOROUGH OF NORTH YORK	420933	TOWNSHIP OF FAWN	422219	TOWNSHIP OF WEST MANHEIM	422234
BOROUGH OF RAILROAD	420935	TOWNSHIP OF FRANKLIN	422220	TOWNSHIP OF WINDSOR	422235
BOROUGH OF RED LION*	422214	TOWNSHIP OF HEIDELBERG	422221	TOWNSHIP OF YORK	421032

* No Special Flood Hazard Areas Identified

REVISED:

FLOOD INSURANCE STUDY NUMBER
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FEMA

REVISED PRELIMINARY
April 30, 2014

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Published Separately

Flood Insurance Rate Map (FIRM)

Acronyms

BFE	Base Flood Elevation
CBIA	Coastal Barrier Improvement Act
CBRA	Coastal Barrier Resources Act
CBRS	Coastal Barrier Resources System
CNMS	Coordinated Needs Management Strategy
CFR	Code of Federal Regulations
CID	Community Identification Number
CRS	Community Rating System
DHS	Department of Homeland Security
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Maps
FIS	Flood Insurance Study
FHBM	Flood Hazard Boundary Map
FRR	Flood Risk Report
GIS	Geographic Information System
GRS	Geodetic Reference System
HUC-8	Hydrologic Unit Codes
LiMA	Limit of Moderate Wave Action
LOMA	Letter of Map Amendment
LOMC	Letter of Map Change
LOMR	Letter of Map Revision
NAVD88	North American Vertical Datum of 1988
NFHL	National Flood Hazard Layer
NFIP	The National Flood Insurance Program
NGS	National Geodetic Survey
NGVD29	National Geodetic Vertical Datum of 1929
OPA	Otherwise Protected Areas
PAL	Provisionally Accredited Levee
PAMAP	Pennsylvania Map Program
PMR	Physical Map Revision
SFHA	Special Flood Hazard Areas
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

FLOOD INSURANCE STUDY REPORT YORK COUNTY, PENNSYLVANIA

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 provides 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, etc., 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 encouraged additional development. To compound the problem, the general public could not afford 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 with the intent 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 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 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 York County, Pennsylvania.

The jurisdictions that are included in this project area, along with the Community Identification Number (CID) for each community and the eight-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 1.

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)
Borough of Cross Roads	422209	02050306	42133C0480F, 42133C0483F, 42133C0490F
Borough of Dallastown*	422739	02050306	42133C0342F, 42133C0344F
Borough of Delta	422211	02050306	42133C0677F
Borough of Dillsburg	420919	02050305, 02050306	42133C0131F, 42133C0132F
Borough of Dover	422569	02050306	42133C0188F, 42133C0189F, 42133C0301F
Borough of East Prospect*	422740	02050306	42133C0357F, 42133C0359F
Borough of Fawn Grove	422570	02050306	42133C0655F
Borough of Felton	420922	02050306	42133C0477F, 42133C0481F
Borough of Franklintown*	422741	02050306	42133C0133F, 42133C0134F
Borough of Glen Rock	420924	02050306	42133C0461F
Borough of Goldsboro	420925	02050305	42133C0067F, 42133C0069F, 42133C0086F, 42133C0088F
Borough of Hallam	420926	02050306	42133C0238F, 42133C0239F, 42133C0351F, 42133C0352F
Borough of Hanover	422212	02050306	42133C0403F, 42133C0404F, 42133C0411F, 42133C0412F
Borough of Jacobus	420928	02050306	42133C0338F, 42133C0339F, 42133C0455F
Borough of Jefferson*	422742	02050306	42133C0428F, 42133C0429F, 42133C0436F, 42133C0437F
Borough of Lewisberry	420929	02050306	42133C0063F
Borough of Loganville*	422213	02050306	42133C0455F
Borough of Manchester	422747	02050306	42133C0203F, 42133C0204F, 42133C0211F, 42133C0212F
Borough of Mount Wolf	421021	02050306	42133C0204F, 42133C0212F
Borough of New Freedom	420932	02050306, 02060003	42133C0464F, 42133C0605F, 42133C0610F
Borough of New Salem	422743	02050306	42133C0320F
Borough of North York	420933	02050306	42133C0326F, 42133C0328F
Borough of Railroad	420935	02050306	42133C0464F, 42133C0468F

*No Special Flood Hazard Areas Identified

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Borough of Red Lion*	422214	02050306	42133C0361F, 42133C0363F, 42133C0364F
Borough of Seven Valleys	420936	02050306	42133C0431F, 42133C0432F
Borough of Shrewsbury*	422748	02050306	42133C0464F, 42133C0468F, 42133C0470F, 42133C0610F
Borough of Spring Grove	420938	02050306	42133C0313F, 42133C0426F
Borough of Stewartstown*	422744	02050306	42133C0488F, 42133C0490F, 42133C0626F, 42133C0627F
Borough of Wellsville	420940	02050306	42133C0165F, 42133C0170F
Borough of West York*	420941	02050306	42133C0309F, 42133C0328F
Borough of Windsor	420942	02050306	42133C0362F
Borough of Winterstown*	422745	02050306	42133C0457F, 42133C0460F, 42133C0476F, 42133C0480F
Borough of Wrightsville	420943	02050306	42133C0243F, 42133C0244F
Borough of Yoe	420944	02050306	42133C0342F, 42133C0344F
Borough of York Haven	420946	02050305, 02050306	42133C0201F, 42133C0202F
Borough of Yorkana*	422746	02050306	42133C0352F
City of York	420945	02050306	42133C0307F, 42133C0309F, 42133C0326F, 42133C0327F, 42133C0328F, 42133C0329F
Township of Carroll	422216	02050305, 02050306	42133C0018F, 42133C0019F, 42133C0038F, 42133C0127F, 42133C0131F, 42133C0132F, 42133C0133F, 42133C0134F, 42133C0151F, 42133C0155F
Township of Chanceford	422217	02050306	42133C0359F, 42133C0370F, 42133C0378F, 42133C0379F, 42133C0387F, 42133C0389F, 42133C0390F, 42133C0391F, 42133C0392F, 42133C0393F, 42133C0394F, 42133C0477F, 42133C0481F, 42133C0482F, 42133C0483F, 42133C0484F, 42133C0501F, 42133C0503F, 42133C0505F, 42133C0510F

*No Special Flood Hazard Areas Identified

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of Codorus	421142	02050306, 02060003	42133C0428F, 42133C0429F, 42133C0433F, 42133C0434F, 42133C0436F, 42133C0437F, 42133C0439F, 42133C0442F, 42133C0444F, 42133C0445F, 42133C0461F, 42133C0463F, 42133C0580F, 42133C0581F, 42133C0582F
Township of Conewago	420918	02050306	42133C0176F, 42133C0177F, 42133C0178F, 42133C0179F, 42133C0181F, 42133C0182F, 42133C0183F, 42133C0184F, 42133C0189F, 42133C0190F, 42133C0191F, 42133C0192F, 42133C0193F, 42133C0194F, 42133C0201F, 42133C0203F
Township of Dover	420920	02050306	42133C0160F, 42133C0168F, 42133C0169F, 42133C0170F, 42133C0176F, 42133C0178F, 42133C0179F, 42133C0188F, 42133C0189F, 42133C0190F, 42133C0193F, 42133C0277F, 42133C0279F, 42133C0281F, 42133C0282F, 42133C0283F, 42133C0284F, 42133C0301F, 42133C0302F, 42133C0303F, 42133C0304F, 42133C0306F
Township of East Hopewell	422218	02050306	42133C0480F, 42133C0481F, 42133C0483F, 42133C0484F, 42133C0490F, 42133C0495F, 42133C0503F, 42133C0511F, 42133C0515F
Township of East Manchester	420921	02050306	42133C0184F, 42133C0192F, 42133C0202F, 42133C0203F, 42133C0204F, 42133C0208F, 42133C0211F, 42133C0212F, 42133C0213F, 42133C0214F, 42133C0216F, 42133C0217F, 42133C0218F

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of Fairview	420923	02050305, 02050306	42133C0032F, 42133C0033F, 42133C0034F, 42133C0041F, 42133C0042F, 42133C0043F, 42133C0044F, 42133C0051F, 42133C0052F, 42133C0053F, 42133C0054F, 42133C0058F, 42133C0059F, 42133C0063F, 42133C0065F, 42133C0067F, 42133C0070F, 42133C0160F, 42133C0176F
Township of Fawn	422219	02050306	42133C0495F, 42133C0511F, 42133C0515F, 42133C0516F, 42133C0517F, 42133C0518F, 42133C0635F, 42133C0655F, 42133C0656F, 42133C0657F
Township of Franklin	422220	02050305, 02050306	42133C0110F, 42133C0127F, 42133C0130F, 42133C0131F, 42133C0133F, 42133C0134F, 42133C0136F, 42133C0137F, 42133C0139F, 42133C0141F, 42133C0142F, 42133C0143F
Township of Heidelberg	422221	02050306	42133C0402F, 42133C0404F, 42133C0406F, 42133C0407F, 42133C0408F, 42133C0409F, 42133C0412F, 42133C0420F, 42133C0428F
Township of Hellam	420927	02050306	42133C0216F, 42133C0217F, 42133C0218F, 42133C0219F, 42133C0236F, 42133C0237F, 42133C0238F, 42133C0239F, 42133C0241F, 42133C0242F, 42133C0243F, 42133C0244F, 42133C0332F, 42133C0351F, 42133C0352F, 42133C0356F
Township of Hopewell	422222	02050306	42133C0468F, 42133C0469F, 42133C0470F, 42133C0488F, 42133C0490F, 42133C0495F, 42133C0610F, 42133C0626F, 42133C0627F, 42133C0635F
Township of Jackson	422223	02050306	42133C0284F, 42133C0292F, 42133C0295F, 42133C0303F, 42133C0304F, 42133C0311F, 42133C0313F, 42133C0315F, 42133C0406F, 42133C0407F, 42133C0426F

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of Lower Chanceford	420930	02050306	42133C0393F, 42133C0394F, 42133C0503F, 42133C0505F, 42133C0507F, 42133C0510F, 42133C0511F, 42133C0515F, 42133C0516F, 42133C0517F, 42133C0519F, 42133C0526F, 42133C0528F, 42133C0529F, 42133C0536F, 42133C0537F, 42133C0538F, 42133C0539F, 42133C0541F, 42133C0543F
Township of Lower Windsor	421187	02050306	42133C0243F, 42133C0244F, 42133C0351F, 42133C0352F, 42133C0353F, 42133C0354F, 42133C0356F, 42133C0357F, 42133C0358F, 42133C0359F, 42133C0362F, 42133C0366F, 42133C0370F, 42133C0376F, 42133C0378F
Township of Manchester	420931	02050306	42133C0191F, 42133C0192F, 42133C0193F, 42133C0194F, 42133C0211F, 42133C0213F, 42133C0214F, 42133C0306F, 42133C0307F, 42133C0326F, 42133C0327F
Township of Manheim	422224	02050306, 02060003	42133C0409F, 42133C0418F, 42133C0420F, 42133C0436F, 42133C0437F, 42133C0438F, 42133C0439F, 42133C0557F, 42133C0580F, 42133C0581F
Township of Monaghan	422225	02050305, 02050306	42133C0036F, 42133C0037F, 42133C0038F, 42133C0039F, 42133C0041F, 42133C0043F, 42133C0151F, 42133C0155F, 42133C0160F
Township of Newberry	422226	02050305, 02050306	42133C0063F, 42133C0065F, 42133C0067F, 42133C0069F, 42133C0070F, 42133C0086F, 42133C0088F, 42133C0176F, 42133C0177F, 42133C0179F, 42133C0181F, 42133C0182F, 42133C0201F, 42133C0202F, 42133C0203F, 42133C0204F

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of North Codorus	422227	02050306	42133C0313F, 42133C0315F, 42133C0317F, 42133C0319F, 42133C0320F, 42133C0336F, 42133C0338F, 42133C0407F, 42133C0409F, 42133C0420F, 42133C0426F, 42133C0427F, 42133C0428F, 42133C0429F, 42133C0431F, 42133C0432F, 42133C0433F, 42133C0434F, 42133C0436F, 42133C0455F
Township of North Hopewell	422228	02050306	42133C0344F, 42133C0456F, 42133C0457F, 42133C0460F, 42133C0470F, 42133C0476F, 42133C0477F, 42133C0480F, 42133C0481F, 42133C0483F, 42133C0490F
Township of Paradise	420934	02050306	42133C0279F, 42133C0283F, 42133C0284F, 42133C0286F, 42133C0287F, 42133C0288F, 42133C0289F, 42133C0292F, 42133C0295F, 42133C0401F, 42133C0402F, 42133C0406F
Township of Peach Bottom	422229	02050306	42133C0516F, 42133C0517F, 42133C0518F, 42133C0519F, 42133C0537F, 42133C0538F, 42133C0539F, 42133C0541F, 42133C0543F, 42133C0544F, 42133C0656F, 42133C0657F, 42133C0676F, 42133C0677F, 42133C0681F, 42133C0682F, 42133C0701F
Township of Penn	421025	02050306	42133C0401F, 42133C0402F, 42133C0403F, 42133C0404F, 42133C0411F, 42133C0412F, 42133C0413F, 42133C0414F, 42133C0418F, 42133C0420F
Township of Shrewsbury	422230	02050306, 02060003	42133C0442F, 42133C0444F, 42133C0455F, 42133C0460F, 42133C0461F, 42133C0462F, 42133C0463F, 42133C0464F, 42133C0468F, 42133C0469F, 42133C0470F, 42133C0582F, 42133C0605F, 42133C0610F, 42133C0626F

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of Spring Garden	420937	02050306	42133C0309F, 42133C0317F, 42133C0326F, 42133C0327F, 42133C0328F, 42133C0329F, 42133C0333F, 42133C0336F, 42133C0337F
Township of Springettsbury	421031	02050306	42133C0214F, 42133C0218F, 42133C0219F, 42133C0326F, 42133C0327F, 42133C0329F, 42133C0331F, 42133C0332F, 42133C0333F, 42133C0334F, 42133C0351F
Township of Springfield	422231	02050306	42133C0319F, 42133C0338F, 42133C0339F, 42133C0343F, 42133C0432F, 42133C0434F, 42133C0442F, 42133C0455F, 42133C0456F, 42133C0457F, 42133C0460F, 42133C0461F, 42133C0462F
Township of Warrington	422232	02050305, 02050306	42133C0134F, 42133C0151F, 42133C0155F, 42133C0160F, 42133C0164F, 42133C0165F, 42133C0168F, 42133C0169F, 42133C0170F, 42133C0176F, 42133C0178F
Township of Washington	421150	02050306	42133C0134F, 42133C0141F, 42133C0142F, 42133C0143F, 42133C0144F, 42133C0155F, 42133C0164F, 42133C0165F, 42133C0168F, 42133C0260F, 42133C0276F, 42133C0277F, 42133C0278F, 42133C0279F, 42133C0281F, 42133C0287F
Township of West Manchester	422233	02050306	42133C0193F, 42133C0302F, 42133C0304F, 42133C0306F, 42133C0307F, 42133C0308F, 42133C0309F, 42133C0315F, 42133C0317F, 42133C0320F, 42133C0328F, 42133C0336F
Township of West Manheim	422234	02050306, 02060003	42133C0413F, 42133C0414F, 42133C0418F, 42133C0420F, 42133C0551F, 42133C0552F, 42133C0556F, 42133C0557F

Table 1: Listing of NFIP Jurisdictions (continued)

Community	CID	HUC-8 Sub-Basin(s)	Located on FIRM Panel(s)
Township of Windsor	422235	02050306	42133C0332F, 42133C0333F, 42133C0334F, 42133C0342F, 42133C0351F, 42133C0353F, 42133C0354F, 42133C0361F, 42133C0362F, 42133C0363F, 42133C0364F, 42133C0366F, 42133C0370F, 42133C0476F, 42133C0477F, 42133C0481F
Township of York	421032	02050306	42133C0317F, 42133C0319F, 42133C0329F, 42133C0333F, 42133C0334F, 42133C0336F, 42133C0337F, 42133C0338F, 42133C0339F, 42133C0341F, 42133C0342F, 42133C0343F, 42133C0344F, 42133C0361F, 42133C0363F, 42133C0456F, 42133C0457F, 42133C0476F

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-percent-annual-chance flood elevation is also referred to as the Base Flood Elevation [BFE]); delineations of the 1-percent-annual-chance and 0.2-percent-annual-chance flood floodplains; and 1-percent-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 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 FIS Report for York County became effective on September 25, 2009. Refer to Table 28 for information about subsequent revisions to the FIRMs.

- FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

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

- Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1-percent-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. For all other levees, the user is encouraged to contact the appropriate local community.

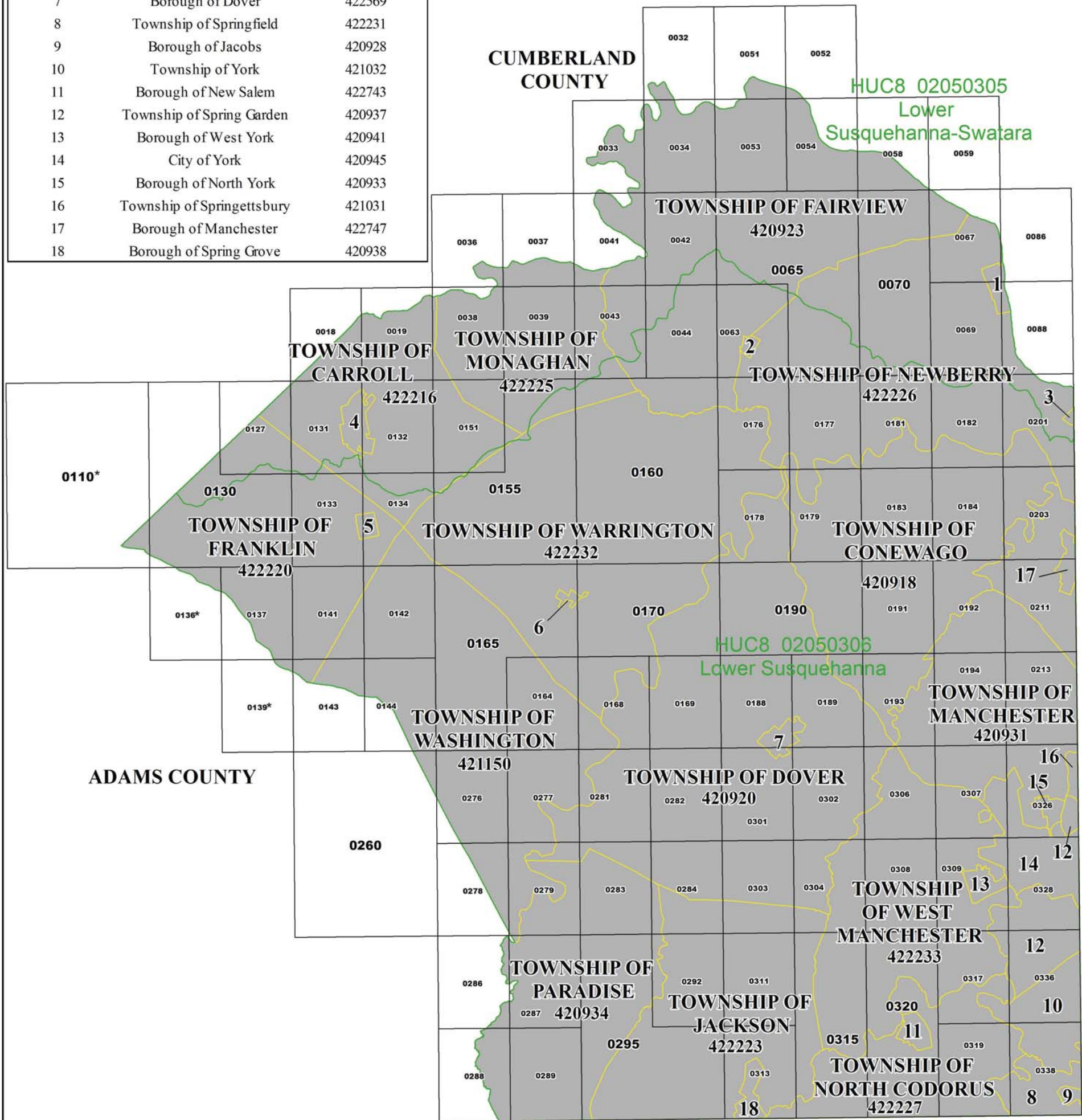
Please also note that FEMA has identified levees in this jurisdiction that have not been demonstrated by the community or levee owner to meet the requirements of Part 65.10 of the NFIP regulations in 44 CFR as it relates to the levee’s ability to withstand a 1% annual chance flood event. As such, there are temporary actions being taken until such time as FEMA is able to initiate a new flood risk project to apply new protocols. These levees occur on FIRM panels 42133C0326F and 42133C0328F, on the Codorus Creek and are identified on FIRM panels with notes and bounding lines and in Table 9 of this FIS report as potential areas of flood hazard data changes based on further review.

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

have not been demonstrated by the community or levee owner to meet the requirements of 44CFR Part 65.10 of the NFIP regulations as it relates to the levee's capacity to provide 1% annual chance flood protection. As such, there are temporary actions being taken until such time as FEMA is able to initiate a new flood risk project to apply new flood hazard mapping protocols to leveed areas. These temporary actions involve using the flood hazard data shown on the previously published FIRM exactly as shown on that prior map and secluding it with bounding lines and special map notes. If a vertical datum conversion was executed for the county, then the Base Flood Elevations shown on the FIRM will now reflect elevations in the NAVD of 1988 datum. These levees occur on FIRM panel(s) 42133C0326F, 42133C0327F, and 42133C0328F on Codorus Creek and are identified on FIRM panels (with notes and bounding lines) as potential areas of flood hazard data changes based on further review. Please refer to Section 4.4 of this FIS for more information.

KEY NUMBER	COMMUNITY	CID
1	Borough of Goldsboro	420925
2	Borough of Lewisberry	420929
3	Borough of York Haven	420946
4	Borough of Dillsburg	420919
5	Borough of Franklintown	422741
6	Borough of Wellsville	420940
7	Borough of Dover	422569
8	Township of Springfield	422231
9	Borough of Jacobs	420928
10	Township of York	421032
11	Borough of New Salem	422743
12	Township of Spring Garden	420937
13	Borough of West York	420941
14	City of York	420945
15	Borough of North York	420933
16	Township of Springettsbury	421031
17	Borough of Manchester	422747
18	Borough of Spring Grove	420938

Figure 1: FIRM Panel Index



1 in = 3 miles

00.51234

Miles

Map Projection:
Pennsylvania StatePlane South FIPS 702 Feet
North American Datum 1983

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

HTTP://MSC.FEMA.GOV

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION

PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

COUNTY LOCATOR

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP INDEX

YORK COUNTY, PENNSYLVANIA (All Jurisdictions)

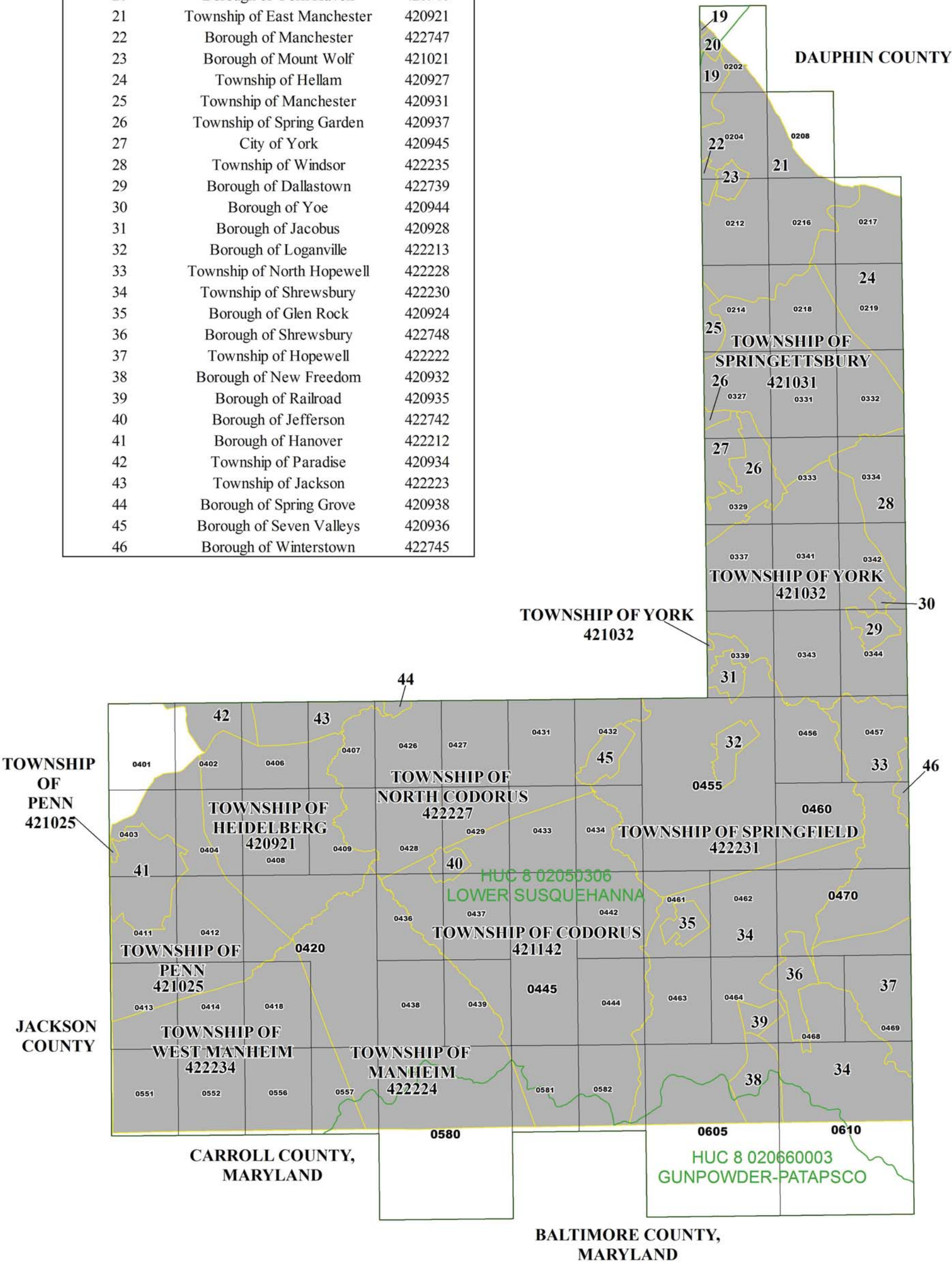
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FEMA

MAP NUMBER
42133CIND0B
MAP REVISED

Figure 1: FIRM Panel Index (cont)

KEY NUMBER	COMMUNITY	CID
19	Township of Newberry	422226
20	Borough of York Haven	420946
21	Township of East Manchester	420921
22	Borough of Manchester	422747
23	Borough of Mount Wolf	421021
24	Township of Hellam	420927
25	Township of Manchester	420931
26	Township of Spring Garden	420937
27	City of York	420945
28	Township of Windsor	422235
29	Borough of Dallastown	422739
30	Borough of Yoe	420944
31	Borough of Jacobus	420928
32	Borough of Loganville	422213
33	Township of North Hopewell	422228
34	Township of Shrewsbury	422230
35	Borough of Glen Rock	420924
36	Borough of Shrewsbury	422748
37	Township of Hopewell	422222
38	Borough of New Freedom	420932
39	Borough of Railroad	420935
40	Borough of Jefferson	422742
41	Borough of Hanover	422212
42	Township of Paradise	420934
43	Township of Jackson	422223
44	Borough of Spring Grove	420938
45	Borough of Seven Valleys	420936
46	Borough of Winterstown	422745



1 in = 3 miles

N

00.51234

Miles

Map Projection:
Pennsylvania StatePlane South FIPS 702 Feet
North American Datum 1983

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

HTTP://MSC.FEMA.GOV

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION



NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP INDEX

YORK COUNTY, PENNSYLVANIA (All Jurisdictions)

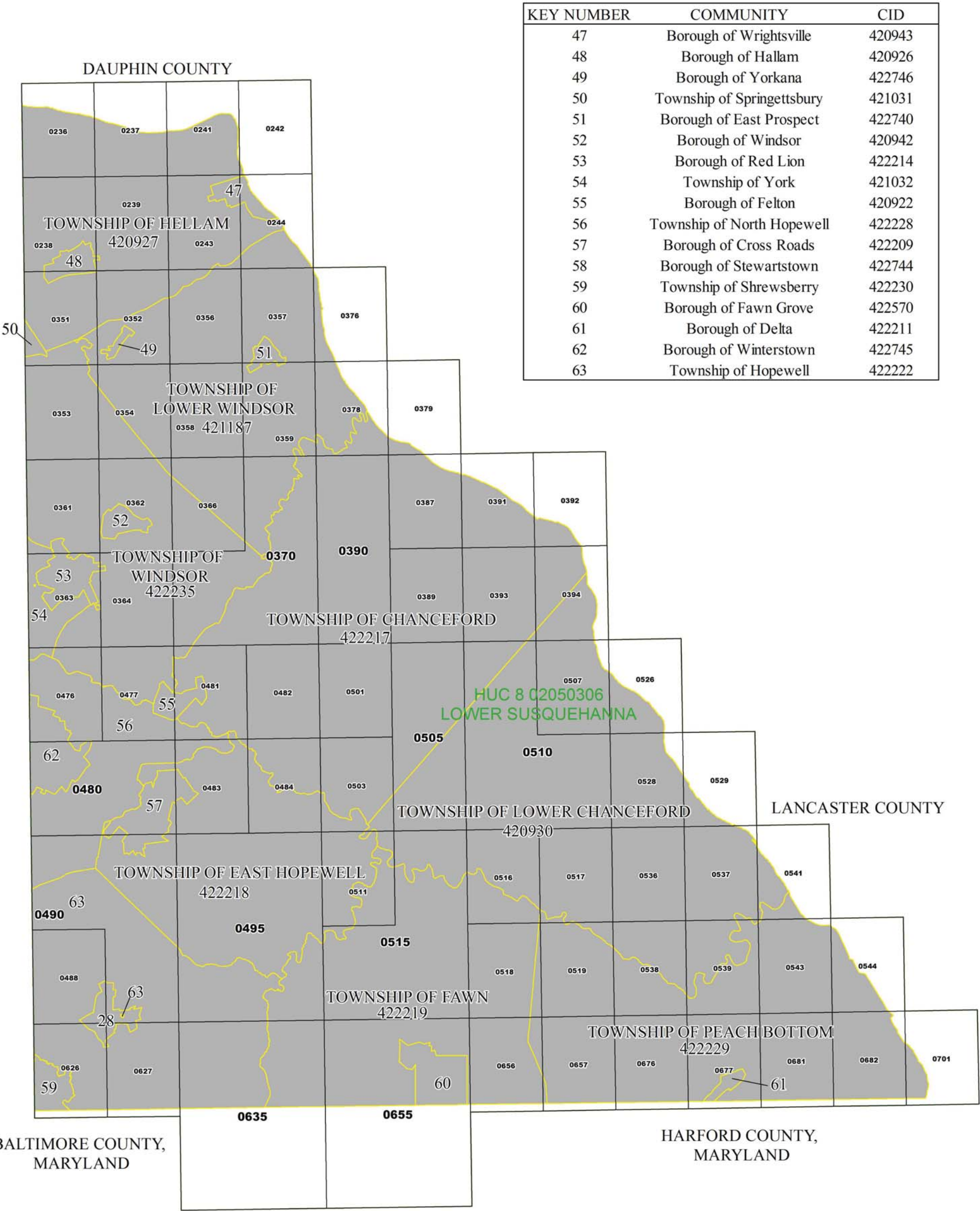
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FEMA

MAP NUMBER
42133CIND08
MAP REVISED

Figure 1: FIRM Panel Index (cont)



1 in = 2 miles

0 0.5 1 2 3 4 Miles

Map Projection:
Pennsylvania StatePlane South FIPS 702 Feet
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



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP INDEX

YORK COUNTY, PENNSYLVANIA (All Jurisdictions)
PANELS PRINTED:
0236, 0237, 0238, 0239, 0241, 0242, 0243, 0244, 0351, 0352, 0353, 0354, 0356, 0357, 0358, 0359, 0361, 0362, 0363, 0364, 0366, 0370, 0376, 0378, 0379, 0387, 0389, 0390, 0391, 0392, 0393, 0394, 0476, 0477, 0480, 0481, 0482, 0483, 0484, 0488, 0490, 0495, 0501, 0503, 0505, 0507, 0510, 0511, 0515, 0516, 0517, 0518, 0519, 0526, 0528, 0529, 0536, 0537, 0538, 0539, 0541, 0543, 0544, 0626, 0627, 0629, 0635, 0655, 0656, 0657, 0676, 0677, 0681, 0682, 0701

FEMA

MAP NUMBER
42133CIND0B
MAP REVISED

*PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS

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 NFIP in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center Web site at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change (LOMC), a FIS Report, and/or digital versions of this map. Many of these products can be obtained directly from the Web site. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

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

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

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

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

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

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

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 NFIP. Floodway widths and other pertinent floodway data are provided in the FIS Report for this jurisdiction.

FLOOD CONTROL STRUCTURE INFORMATION: Certain areas not in SFHA 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.

Figure 2. FIRM Notes to Users

PROJECTION INFORMATION: The projection used in the preparation of the map was Pennsylvania State Plane Zone 3702. The horizontal datum was North American Vertical Datum of 1983, 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 (NAVD88). 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 (NGVD29) and the NAVD88, visit the National Geodetic Survey (NGS) Web site at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

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

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

BASE MAP INFORMATION: Base map information shown on the FIRM was provided in digital format by multiple agencies. York County Planning Commission provided digital format of base transportation and political boundaries dated 2011. The United States Geological Survey (USGS) provided 7.5-Minute Series Topographic Maps, date 1989. PAMAP provided the ortho-imagery for York County, dated 2008. For information about base maps, refer to Section 6.2 “Base Map” in this FIS Report.

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

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

Figure 2. FIRM Notes to Users

NOTES FOR FIRM INDEX

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

SPECIAL NOTES FOR SPECIFIC FIRM PANELS

This Notes to Users section was created specifically for York County, Pennsylvania, effective TBD.

ACCREDITED LEVEE NOTES TO USERS: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Web site at <http://www.fema.gov/business/nfip/index.shtm>.

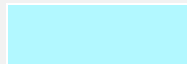
PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations by December 31, 2011. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicate the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Web site at <http://www.fema.gov/business/nfip/index.shtm>.

LEVEE SECLUSION NOTES TO USERS: ATTENTION: The Levee, dike, or other structure inside this boundary has not been shown to comply with Section 65.10 of the NFIP Regulations. As such, this FIRM panel will be revised at a later date to update the flood hazard information associated with this structure. The flood hazard data shown inside this boundary (which have been re-published from the September 25, 2009 FIRM for York County Pennsylvania) should continue to be used until this FIRM is revised to update the flood hazard information in this area.

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

Figure 3: Map Legend for FIRM

SPECIAL FLOOD HAZARD AREAS: *The 1-percent-annual-chance flood, also known as the base flood or 100-year flood, has a 1-percent chance of happening or being exceeded each year. Special Flood Hazard Areas are subject to flooding by the 1-percent-annual-chance flood. The BFE is the water surface elevation of the 1-percent-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-percent-annual-chance flood can be carried without substantial increases in flood heights. See note for specific types. If the floodway is too narrow to be shown, a note is shown.*



Special Flood Hazard Areas subject to inundation by the 1-percent-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-percent-annual-chance floodplains. No BFEs or depths are shown within this zone.
- Zone AE The flood insurance rate zone that corresponds to the 1-percent-annual-chance floodplains. BFEs derived from the hydraulic analyses are shown within this zone, either at cross section locations or as static whole-foot elevations that apply throughout the zone.
- Zone AH The flood insurance rate zone that corresponds to the areas of 1-percent-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-percent-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-percent-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-percent-annual-chance or greater flood.
- Zone A99 The flood insurance rate zone that corresponds to areas of the 1-percent-annual-chance floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No BFEs or flood depths are shown within this zone.
- Zone V The flood insurance rate zone that corresponds to the 1-percent-annual-chance coastal floodplains that have additional hazards associated with storm waves. BFEs are not shown within this zone.
- Zone VE Zone VE is the flood insurance rate zone that corresponds to the 1-percent-annual-chance coastal floodplains that have additional hazards associated with storm waves. BFEs derived from the coastal analyses are shown within this zone as static whole-foot elevations that apply throughout the zone.



Regulatory Floodway determined in Zone AE.

Figure 3: Map Legend for FIRM

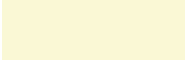
OTHER AREAS OF FLOOD HAZARD	
	Shaded Zone X: Areas of 0.2-percent-annual-chance flood hazards and areas of 1-percent-annual-chance flood hazards with average depths of less than 1 foot or with drainage areas less than 1 square mile.
	Future Conditions 1-Percent-Annual Chance Flood Hazard – Zone X: The flood insurance rate zone that corresponds to the 1-percent- 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 11-percent-annual-chance flood. See Notes to Users for important information.
OTHER AREAS	
	Zone D (Areas of Undetermined Flood Hazard): The flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.
	Unshaded Zone X: Areas of minimal flood hazard.
FLOOD HAZARD AND OTHER BOUNDARY LINES	
 (ortho) (vector)	Flood Zone Boundary (white line on ortho-photography-based mapping; gray line on vector-based mapping)
	Limit of Study
	Jurisdiction Boundary
	LiMWA: Indicates the inland limit of the area affected by waves greater than 1.5 feet
GENERAL STRUCTURES	
 <i>Aqueduct</i> <i>Channel</i> <i>Culvert</i> <i>Storm Sewer</i>	Channel, Culvert, Aqueduct, or Storm Sewer
 <i>Dam</i> <i>Jetty</i> <i>Weir</i>	Dam, Jetty, Weir

Figure 3: Map Legend for FIRM

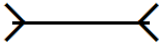
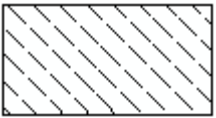
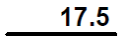
   <i>Bridge</i>	Levee, Dike, or Floodwall accredited or provisionally accredited to reduce the flood risk from the 1-percent-annual-chance flood. Levee, Dike or Floodwall not accredited to reduce the flood risk from the 1-percent-annual-chance flood. Bridge
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AND OTHERWISE PROTECTED AREAS (OPA): <i>CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. See Notes to Users for important information.</i>	
 CBRS AREA 09/30/2009  OTHERWISE PROTECTED AREA 09/30/2009	CBRS: Labels are shown to clarify where this area shares a boundary with an incorporated area or overlaps with the floodway. Otherwise Protected Area (OPA)
REFERENCE MARKERS	
 22.0	River mile Markers
CROSS-SECTION & TRANSECT INFORMATION	
 20.2	Lettered Cross-Section with Regulatory Water Surface Elevation (BFE)
 21.1	Numbered Cross-Section with Regulatory Water Surface Elevation (BFE)
 17.5	Unlettered Cross-Section with Regulatory Water Surface Elevation (BFE)
 -----	Coastal Transect
 	Profile Baseline: Indicates the modeled flow path of a stream and is shown on FIRM panels for all valid studies with profiles or otherwise established base flood elevation. Coastal Transect Baseline: Used in the coastal flood hazard model to represent the 0.0-foot elevation contour and the starting point for the transect and the measuring point for the coastal mapping.
 513 ZONE AE (EL 16)	BFE Line (shown for flooding sources for which no cross-sections or profile are available) Static Base Flood Elevation value (shown under zone label)

Figure 3: Map Legend for FIRM

ZONE AO (DEPTH 2)	Zone designation with Depth
ZONE AO (DEPTH 2) (VEL 15 FPS)	Zone designation with Depth and Velocity
BASE MAP FEATURES	
<u>Missouri Creek</u>	River, Stream or Other Hydrographic Feature
	Interstate Highway
	U.S. Highway
	State Highway
	County Highway
<u>MAPLE LANE</u>	Street, Road, Avenue Name, or Private Drive if shown on Flood Profile
 RAILROAD	Railroad
	Horizontal Reference Grid Line
	Horizontal Reference Grid Ticks
	Secondary Grid Crosshairs
Land Grant	Name of Land Grant
7	Section Number
R. 43 W. T. 22 N.	Range, Township Number
⁴² 76 ^{000m} E	Horizontal Reference Grid Coordinates (UTM)
365000 FT	Horizontal Reference Grid Coordinates (State Plane)
80° 16' 52.5"	Corner Coordinates (Latitude, Longitude)

SECTION 2.0 – FLOODPLAIN MANAGEMENT APPLICATIONS

2.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance (100-year) flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-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 York 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-percent-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-percent- and 0.2-percent-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-percent-annual-chance floodplain boundary on the FIRM, without published water surface elevations. In cases where the 1-percent- and 0.2-percent- annual-chance floodplain boundaries are close together, only the 1-percent-percentage annual chance floodplain boundary is shown on the FIRM. Figure 3 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(a) lists the locations and communities of flooding, for which the stream name in this countywide FIS project other has been updated from those used in the previously printed FIS projects. Table 2(b): 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-percent annual chance floodplain corresponds to the SFHAs. The 0.2-percent 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.

Within this jurisdiction there are one or more levee that have not been demonstrated by the community or levee owner to meet the requirements of 44CFR Part 65.10 of the NFIP regulations as it relates to the levee's capacity to provide 1% annual chance flood protection. As such, the floodplain boundaries in this area are subject to change. Please refer to Section 4.4 of this FIS for more information on how this may affect the floodplain boundaries shown on this FIRM.

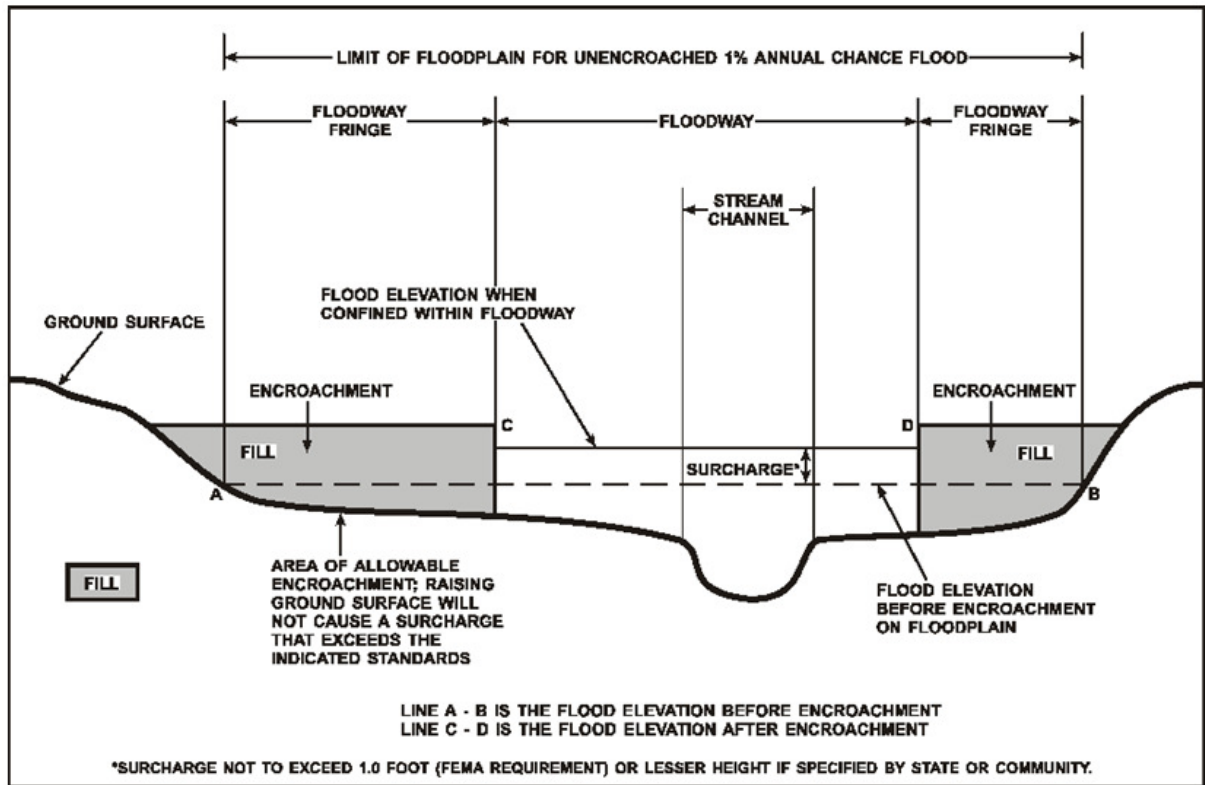
2.2 Floodways

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-percent-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-percent-annual-chance flood. The floodway fringe is the area between the floodway and the 1-percent-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 percent 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 York County to limit increases caused by encroachment to 1.0 foot and several communities have adopted additional restrictions. The floodways in this project are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway projects.

Figure 4: Floodway Schematic



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

Table 2(a): Stream Name Changes

Community	Old Name	New Name
Township of York	Barshinger Creek Tributary 1	Barshinger Creek Tributary 2
Township of Lower Windsor	Cabin Creek Tributary No. 1	Cabin Creek Tributary No. 2
Township of Lower Windsor	Cabin Creek Tributary No. 2	Cabin Creek Tributary No. 5
Townships of Dover and Warrington	Conewago Creek Tributary	Conewago Creek Tributary 43
Township of Shrewsbury	Deer Creek Tributary 1	Deer Creek Tributary 6
Township of Dover	Fox Run Tributary B	Fox Run Tributary 4
Township of Manchester and Conewago	Little Conewago Creek Tributary 1	Little Conewago Creek Tributary 16
Township of Jackson	Little Conewago Creek Tributary 2	Little Conewago Creek Tributary 24
Township of Washington	North Branch Bermudian Creek Tributary 1	North Branch Bermudian Creek Tributary 8
Township of Franklin and Carroll	North Branch Bermudian Creek Tributary 2	North Branch Bermudian Creek Tributary 9
Township of Franklin	North Branch Bermudian Creek Tributary 3	North Branch Bermudian Creek Tributary 15
Township of Franklin	North Branch Bermudian Creek Tributary 4	North Branch Bermudian Creek Tributary 17
Township of Chanceford	North Branch Muddy Creek Tributary 1	North Branch Muddy Creek Tributary 3
Borough of Felton and Township of North Hopewell	North Branch Muddy Creek Tributary 2	North Branch Muddy Creek Tributary 11
Township of North Hopewell	North Branch Muddy Creek Tributary 3	North Branch Muddy Creek Tributary 12
Township of Windsor	North Branch Muddy Creek Tributary 4	North Branch Muddy Creek Tributary 13
Township of Carroll	Stony Run No. 2 Tributary A	Stony Run No. 2 Trib 2
Township of York	Unnamed Tributary to Mill Creek	Mill Creek Tributary 9

Table 2(b): 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 (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bald Eagle Creek	Townships of Fawn and Peach Bottom	At the confluence with Muddy Creek	Approximately 1,700 feet upstream of Deer Road	2050306	2.3		Y	AE	1980 (Fawn) 1979 (Peach Bottom)
Barshinger Creek	Townships of North Hopewell and York	At the confluence with East Branch Codorus Creek	Approximately 60 feet upstream of Arbor Drive	2050306	3.0		Y	AE	1987 (York) 1979 (North Hopewell)
Barshinger Creek Tributary 2	Townships of North Hopewell and York	At the confluence with Barshinger Creek	Approximately 60 feet upstream of Franklin Street	2050306	0.7		Y	AE	1979 (North Hopewell) 1987 (York)
Beaver Creek	Township of Paradise	At the confluence with Conewago Creek	At Maple Grove Road	2050306	6.5		Y	AE	1980
Beaver Creek Tributary A	Township of Paradise	At the confluence with Beaver Creek	Approximately 80 feet upstream of Maple Grove Road	2050306	2.7		Y	AE	1980

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Bennett Run	Borough of Lewisberry; and Township of Newberry	Approximately 30,100 feet upstream of the Confluence with Conewago Creek	Approximately 10 feet upstream of Front Street	2050306	0.4		Y	AE	1981 (Lewisberry) 1978 (Newberry)
Bermudian Creek	Township of Washington	At confluence with Conewago Creek	Approximately 450 feet upstream of Bermudian Church Road	2050306	1.4		Y	AE	1981
Buffalo Valley Run	Townships of North Codorus and Codorus	Confluence with South Branch Codorus Creek	Approximately 370 feet upstream of Buffalo Valley Road	2050306	5.7		Y	AE	2013
Cabin Creek	Township of Lower Windsor	Approximately 16,500 feet upstream of Susquehanna River	Approximately 50 feet upstream of Furnace Road	2050306	3.3		Y	AE	1981
Cabin Creek Tributary No. 2	Township of Lower Windsor	At confluence with Cabin Creek	Approximately 70 feet upstream of Cabin Creek Road	2050306	0.6		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Cabin Creek Tributary No. 5	Township of Lower Windsor	At the confluence with Cabin Creek	Approximately 2,095 feet upstream of confluence with Cabin Creek	2050306	0.4		Y	AE	1981
Canadochly Creek	Township of Lower Windsor	At the confluence with the Susquehanna River	Approximately 200 feet upstream of Trinity North Road	2050306	2.4		Y	AE	1981
Carter Creek	Township of Chanceford	At the confluence with North Branch Muddy Creek	Approximately 90 feet upstream of Felton Road	2050306	2.2		Y	AE	1979
Centerville Creek	Townships of Codorus and Shrewsbury	At confluence with South Branch Codorus Creek	Approximately 1,075 feet upstream of High Valley Lane	2050306	3.6		Y	AE	1981 (Codorus) 1980 (Shrewsbury)
Centerville Creek Tributary	Township of Codorus	At confluence with Centerville Creek	Approximately 80 feet upstream of Young Road	2050306	0.3		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Cherry Run	Township of Codorus	At confluence with South Branch Codorus Creek	Approximately 25 feet upstream of Cherry Run Road	2050306	0.2		Y	AE	1981
Codorus Creek	Boroughs of North York and Spring Grove; and City of York; and Townships of East Manchester, Heidelberg, Hellam, Jackson, North Codorus, Spring Garden, Springettsbury, and West Manchester	Approximately 700 feet downstream of the confluence of Dee Run	Approximately 2,580 feet downstream of Kraft Mill Road	2050306	17.3		Y	AE	1980 (Spring Grove, Heidelberg, Spring Garden and Jackson) 1978 (East Manchester) 1978 (Hellam) 1981 (Codorus) 1981 (Springettsbury) 1978 (West Manchester)
Codorus Creek Tributary A	Township of Manchester	Confluence with Codorus Creek	Approximately 2,900 feet upstream of Church Road/State Route 238	2050306	1.9		Y	AE	2013

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Codorus Creek Tributary A1	Township of Manchester	At the confluence with Codorus Creek Tributary A	Approximately 75 feet upstream of Private Drive	2050306	0.6		Y	AE	1980
Codorus Creek Tributary B	Township of Manchester	Confluence with Codorus Creek	Approximately 80 feet upstream of Susquehanna Trail	2050306	2.1		Y	AE	2013
Codorus Creek Tributary C	Township of North Codorus	At confluence with Codorus Creek	Approximately 40 feet upstream of Stoverstown Road	2050306	2.1		Y	AE	1980
Codorus Creek Tributary D	Township of Codorus	At confluence with Codorus Creek	Approximately 90 feet upstream of Milller Road	2050306	0.4		Y	AE	1981
Codorus Creek Tributary E	Township of Manheim	At confluence with Codorus Creek	Approximately 180 feet upstream of Wood Mill Road	2050306	0.9		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Conewago Creek	Borough of York Haven, Townships of Conewago, Dover, East Manchester, Newberry, Warrington, Washington and York Haven	At confluence with Susquehanna River	At the Confluence with Beaver Creek	2050306	26.3		Y	AE	1978 (York Haven, Dover, East Manchester, Newberry and Conewago) 1981 (Warrington, Washington)
Conewago Creek Flood Channel	Township of East Manchester	At confluence with Susquehanna River	Approximately 160 feet upstream of Wago Road	2050306	0.4		Y	AE	1978
Conewago Creek Tributary 43	Townships of Dover and Warrington	At confluence with Conewago Creek	Approximately 4,830 feet upstream of confluence with Conewago Creek	2050306	0.9		Y	AE	1981 (Warrington) 1978 (Dover)
Deer Creek	Townships of Hopewell and Shrewsbury	Approximately 70 feet downstream of Five Forks Road	Approximately 800 feet upstream of Wolfe Road	2050306	2.3		Y	AE	1980

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Deer Creek Tributary 6	Township of Shrewsbury	At confluence with Deer Creek	Approximately 4,400 feet upstream of confluence with Deer Creek	2050306	0.9		Y	AE	1980
Dogwood Run	Township of Carroll and Franklin	At confluence with Yellow Breeches Creek	Approximately 1,950 feet upstream of Private Road	02050305	5.4		Y	AE	2007
East Branch Codorus Creek	Townships of York and Springfield	Confluence with South Branch Codorus Creek	Approximately 60 feet upstream of Seaks Run Road	2050306	2.8		Y	AE	2013
Ebaughs Creek	Township of Hopewell	Approximately 10,450 feet upstream of Pennsylvania – Maryland Boarder	Approximately 90 feet upstream of Bridgeview Road	2050306	1.3		Y	AE	1980
Ebaughs Creek Tributary 1	Township of Hopewell	At confluence with Ebaughs Creek	Approximately 630 feet upstream of Shaw Road	2050306	0.7		Y	AE	1980

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Fishers Run	Township of Monaghan	At confluence with Stony Run No.2	Approximately 1,930 feet upstream of Fishers Run Road	02050305	2.1		Y	AE	1978
Fishing Creek No. 1	Township of Peach Bottom	At confluence with Muddy Creek	Approximately 75 feet upstream of Hollow Road	2050306	4.6		Y	AE	1980
Fishing Creek No. 2	Townships of Chanceford and Lower Windsor	Just downstream of Craley Road	Approximately 1,080 feet upstream of Camp Road	2050306	3.4		Y	AE	1979 (Chanceford) 1981 (Lower Windsor)
Fishing Creek No. 3	Townships of Fairview and Newberry; and Borough of Goldsboro	Confluence with Susquehanna River	Approximately 700 feet upstream of Pines Road	2050305	1.0		Y	AE	2013
Fox Run	Townships of Conewago and Dover	Just downstream of Bull Road	Just upstream of Old York Road	2050306	2.0		Y	AE	1978 (Conewago, Dover)
Fox Run Tributary 4	Township of Dover	At confluence with Fox Run	Approximately 3,320 feet upstream of the confluence with Fox Run	2050306	0.6		Y	AE	1978

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Fox Run Tributary A	Township of Dover	At confluence with Fox Run	Approximately 5,700 feet upstream of the confluence with Fox Run	2050306	1.1		Y	AE	1978
Fox Run Tributary A1	Borough of Dover; and Township of Dover	At confluence with Fox Run Tributary A	Just upstream of Butter Road	2050306	1.3		Y	AE	1978
Furnace Creek	Township of Lower Chanceford	At confluence with Lake Markburg	Approximately 300 feet upstream of Fuhrman Mill Road	2050306	2.5		Y	AE	1978
Gitts Run	Township of Penn	At confluence with Oil Creek	Approximately 60 feet upstream of Moulstown Road	2050306	1.5		Y	AE	1980
Hartman Run	Boroughs of Manchester, Mount Wolf; and Township of East Manchester	Approximately 12,400 feet upstream of confluence with Susquehanna River	Approximately 1,450 feet upstream of Forge Hill Road	2050306	2.4		Y	AE	1978

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Honey Run	Townships of Dover, Jackson and West Manchester	At confluence with Little Conewago Creek	Approximately 5,430 feet upstream of the confluence with Little Conewago Creek	2050306	1.0		Y	AE	1978 (Dover and West Manchester) 1980 (Jackson)
Inners Creek	Township of York	Approximately 250 feet upstream of the confluence with East Branch Codorus Creek	Approximately 50 feet upstream of Access Road	2050306	2.0		Y	AE	1987
Kreutz Creek	Townships of Windsor and Lower Windsor	Confluence with Susquehanna River	Approximately 200 feet upstream of Ruppert Road	2050306	4.5		Y	AE	2013
Kreutz Creek Tributary D	Borough of Hallam; and Township of Hellam	At confluence with Kreutz Creek	Approximately 4,100 feet upstream of the confluence with Kreutz Creek	2050306	0.8		Y	AE	1978
Kreutz Creek Tributary E	Township of Hellam	At confluence with Kreutz Creek	Approximately 700 feet upstream of Frysville Road	2050306	1.1		Y	AE	1978

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Kreutz Creek Tributary E1	Township of Springettsbury	At confluence with Kreutz Creek Tributary E	Approximately 7,420 feet upstream of the confluence with Kreutz Creek Tributary E	2050306	1.2		Y	AE	1994
Kreutz Creek Tributary E2	Townships of Hellam and Springettsbury	At confluence with Kreutz Creek Tributary E	Approximately 430 feet upstream of Shoe House Road	2050306	0.9		Y	AE	1978
Little Conewago Creek	Townships of Conewago, Dover Manchester, East Manchester and West Manchester	Confluence with Conewago Creek	Approximately 100 feet upstream of Roths Church Road	2050306	15.7		Y	AE	2013
Little Conewago Creek Tributary 16	Township of Manchester	Approximately 270 feet upstream of Confluence with Little Conewago Creek	Approximately 170 feet upstream of Greenbriar Road	2050306	1.7		Y	AE	2013

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Little Conewago Creek Tributary 24	Township of Jackson	Confluence with Little Conewago Creek	Approximately 4,200 feet upstream of the confluence with Little Conewago Creek	2050306	0.7		Y	AE	2013
Michael Run	Township of Peach Bottom	Approximately 9,400 feet upstream of confluence with Susquehanna river	Approximately 60 feet upstream of the Flintville Road	2050306	1.0		Y	AE	1980
Mill Branch	Township of Chanceford	At confluence with Otter Creek	Approximately 600 feet upstream of Dettinger Road	2050306	2.3		Y	AE	1979
Mill Creek	Borough of Yoe; and City of York; and Townships of Springettsbury, Spring Garden, York	At confluence with Codorus Creek	Approximately 1,400 feet upstream of Locust Street	2050306	9.4		Y	AE	1981 (Yoe and Springettsbury) 1980 (Spring Garden)

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Mill Creek Tributary 9	Township of York	At confluence with Mill Creek	At 3,430 feet upstream of confluence with Mill Creek	2050306	0.6		N	AE	1987
Mill Creek Tributary A	Township of York	At confluence with Mill Creek	Approximately 60 feet upstream of Oak Road	2050306	2.2		Y	AE	1987
Mill Creek Tributary A1	Township of York	At confluence with Mill Creek Tributary A	Approximately 820 feet upstream of Access Road	2050306	1.3		Y	AE	1987
Muddy Creek	Townships of Fawn and Lower Chanceford	Approximately 450 feet downstream of confluence of Scott Creek	Approximately 150 feet upstream of Bridgeton Road	2050306	5.7		Y	AE	1979 (Fawn) 1978 (Lower Chanceford)
Neill Run	Townships of Fawn and Peach Bottom	At confluence with Fishing Creek No. 1	Approximately 80 feet upstream of Miller Road	2050306	3.3		Y	AE	1980 (Peach Bottom) 1979 (Fawn),
North Branch Bermudian Creek	Township of Washington	Approximately 11,900 feet upstream of confluence of Bermudian Creek	Approximately 190 feet upstream of Century Road	2050306	8.1		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
North Branch Bermudian Creek Tributary 15	Township of Franklin	Confluence with North Branch Bermudian Creek	Approximately 140 feet upstream of US Route 15	2050306	0.4		Y	AE	1981
North Branch Bermudian Creek Tributary 17	Township of Franklin	Confluence with North Branch Bermudian Creek	Approximately 710 feet upstream of Franklin Church Road	2050306	0.4		Y	AE	1981
North Branch Bermudian Creek Tributary 8	Township of Washington	At confluence with North Branch Bermudian Creek	Approximately 710 feet upstream of the confluence with North Branch Bermudian Creek	2050306	0.1		Y	AE	1981
North Branch Bermudian Creek Tributary 9	Townships of Carroll, Franklin and Washington	At confluence with North Branch Bermudian Creek	Approximately 120 feet upstream of Private Road	2050306	2.0		Y	AE	1981 (Washington) 1978 (Carroll)

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
North Branch Muddy Creek	Townships of East Hopewell, North Hopewell, Chanceford and Windsor; and Borough of Felton	Approximately 500 feet downstream of confluence with North Branch Muddy Creek Tributary 1	Approximately 800 feet upstream of Grim Hollow Road	2050306	8.2		Y	AE	2013
North Branch Muddy Creek Tributary 11	Borough of Felton	Confluence with North Branch Muddy Creek	Approximately 1,870 feet upstream of the confluence with North Branch Muddy Creek	2050306	0.4		Y	AE	1991 1979
North Branch Muddy Creek Tributary 12	Township of North Hopewell	Confluence with North Branch Muddy Creek	Approximately 7,720 feet upstream of confluence with North Branch Muddy Creek	2050306	1.5		Y	AE	1979
North Branch Muddy Creek Tributary 13	Township of Windsor	Confluence with North Branch Muddy Creek	Approximately 6,220 feet upstream of the confluence with North Branch Muddy Creek	2050306	1.2		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
North Branch Muddy Creek Tributary 3	Township of Chanceford	Confluence with North Branch Muddy Creek	Approximately 70 feet upstream of Fake Road	2050306	2.2		Y	AE	1979
Oil Creek	Townships of Heidelberg, Jackson and Penn	At confluence with Codorus Creek	Approximately 800 feet upstream of Breezewood Drive	2050306	8.0		Y	AE	1980
Otter Creek	Township of Chanceford	Approximately 60 feet downstream of the Kline Road	Approximately 1,360 feet upstream of Gum Tree Road	2050306	1.7		Y	AE	1979
Paradise Creek	Township of Jackson	Approximately 950 feet downstream of Lefever Road	Approximately 350 feet upstream of Shady Dell Road	2050306	1.7		Y	AE	2013
Pierceville Run	Township of Codorus	At confluence with Centerville Creek	Approximately 150 feet upstream of Pierceville Road	2050306	4.1		Y	AE	1981
Pine Run	Township of Windsor	At confluence with North Branch Muddy Creek	Approximately 460 feet upstream of the Brownton Road	2050306	1.4		Y	AE	1981

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Pippins Run	Township of Monaghan	At confluence with Yellow Breeches Creek	Approximately 10,400 feet upstream of the confluence with Yellow Breeches Creek	02050305	2.0		Y	AE	1978
Plum Creek	Township of Penn	At York-Adams boundary	Approximately 150 feet upstream of the confluence with Plum Creek Tributary 1	2050306	0.6		Y	AE	2013
Plum Creek Tributary 1	Township of Penn	At confluence with Plum Creek	Approximately 60 feet upstream of Beck Mill Road	2050306	1.0		Y	AE	1980
Rockville Run	Township of Codorus	At confluence with South Branch Codorus Creek	Approximately 90 feet upstream of Private Road	2050306	0.5		Y	AE	1981
Scott Creek	Borough of Delta and Township of Peach Bottom	At confluence with Muddy Creek	Approximately 200 feet upstream of Dooley Road	2050306	3.1		Y	AE	1980

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Shiloh Tributary	Township of West Manchester	Confluence with Little Conewago Creek	Approximately 1,300 feet upstream of Loman Avenue	2050306	1.3		Y	AE	2013
Slagle Run	Township of Penn; and Borough of Hanover	Approximately 170 feet downstream of Carlisle Street	Approximately 70 feet upstream of Flickinger Road	2050306	1.3		Y	AE	2013
South Branch Codorus Creek	Townships of Shrewsbury, North Codorus and Springfield; and Boroughs of Seven Valleys, Glen Rock and Railroad	Confluence with Codorus Creek	Approximately 500 feet upstream of West Bricker Court	2050306	8.7		Y	AE	2013
South Branch Codorus Creek Tributary A	Township of Shrewsbury	At confluence with South Branch Codorus Creek	Approximately 2,530 feet upstream of the confluence with South Branch Codorus Creek	2050306	0.5		Y	AE	1980

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
South Branch Codorus Creek Tributary B	Townships of Codorus and North Codorus	At confluence with South Branch Codorus Creek	Approximately 50 feet upstream of Heindel Road	2050306	0.8		Y	AE	1981
South Branch Conewago Creek	Township of West Manheim	At York-Adams County Boundary	Approximately 50 feet upstream of the Park Entrance	2050306	3.5		Y	AE	1981
South Branch Muddy Creek	Townships of East Hopewell, Fawn, and Hopewell	Approximately 70 feet upstream of the confluence with Muddy Creek	Approximately 60 feet upstream of Muddy Creek Road	2050306	2.3		Y	AE	1979 (Fawn, East Hopewell) 1980 (Hopewell)
Stony Run No. 1	Townships of Monaghan and Fairview	Confluence with Yellow Breeches Creek	Approximately 350 feet upstream of South Wharf Road	2050305	1.1		Y	AE	2013
Stony Run No. 2	Townships of Monaghan and Carroll	Confluence with Yellow Breeches Creek	Approximately 1,600 feet upstream of the confluence with Stony Run No. 2 Trib 2	2050305	2.5		Y	AE	2013

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Stony Run No.2 Tributary 2	Township of Carroll	At confluence with Stony Run No. 2	Approximately 2,050 feet upstream of Warrington Road	2050305	0.4		Y	AE	2013
Susquehanna River	Boroughs of Goldsboro, and Wrightsville; and Townships of Chanceford, East Manchester, Fairview, Lower Windsor, Newberry and Peach Bottom	At Pennsylvania-Maryland State Boundary	At York-Cumberland County Boundary	2050305	56.0		Y	AE	1981 (Lower Windsor) 1980 (Peach Bottom) 1979 (Chanceford) 1978 (Goldsboro, Newberry, Wrightsville, East Manchester) 1975 (Fairview)
Tributary No. 2 to Hartman Run	Borough of Mount Wolf; and Township of East Manchester	At confluence with Hartman Run	Approximately 4,370 feet upstream of confluence with Hartman Run	2050306	0.8		Y	AE	1978

Table 2(b): Flooding Sources Included in this FIS Report (continued)

Flooding Source	Community	Downstream Limit	Upstream Limit	HUC-8 Sub-Basin(s)	Length (mi) (streams or coastlines)	Area (mi²) (estuaries or ponding)	Floodway (Y/N)	Zone shown on FIRM	Date of Analysis
Tyler Run	Townships of York, and Spring Garden; and City of York	Approximately 620 feet downstream of South George Street	Approximately 1,280 feet upstream of Kirch Road	2050306	1.8		Y	AE	2013
Unnamed Tributary To Fox Run Tributary A	Townships of Dover	Approximately 200 feet downstream of Salem Church Road	Just downstream of Marlborough Road	2050306	0.4		N	AE	2010
West Branch Codorus Creek	Townships of Penn and West Manheim	At confluence with Lake Marburg	Approximately 160 feet upstream of Musselman Road	2050306	2.7		Y	AE	1981 (West Manheim) 1980 (Penn)
West Branch Fishers Run	Borough of Dillsburg; and Township of Carroll	At confluence with Stony Run No. 2	Approximately 150 feet upstream of Mumper Lane	2050305	1.5		Y	AE	1981 (Dillsburg) 1978 (Carroll)
Wyntre Brook	Township of York	Approximately 1,760 feet upstream of confluence with Tyler Run	Approximately 30 feet upstream of Old Baltimore Pike	2050306	0.3		Y	AE	1987
Yellow Breeches Creek	Townships of Fairview, Monaghan and Carroll	At confluence with Susquehanna River	At confluence with Dogwood run	2050305	22.5		Y	AE	2013

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-percent 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-percent-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.

Some States and communities use non-encroachment zones to manage floodplain development. While not a FEMA designated floodway, the non-encroachment zone represents that area around the stream that should be reserved to convey the 1 percent annual chance flood event.

Non-encroachment determinations may be delineated where it is not possible to delineate floodways because specific channel profiles with bridge and culvert geometry were not developed. No non-encroachment determinations have been tabulated for this Flood Risk Project.

2.5 Coastal Flood Hazard Areas

This section is not applicable to this FIS Project.

2.5.1 Water Elevations and the Effects of Waves

This section is not applicable to this FIS Project.

2.5.2 Floodplain Boundaries and Base Flood Elevations 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.

2.5.4 Limit of Moderate Wave Action

This section is not applicable to this FIS Project.

SECTION 3.0 – INSURANCE APPLICATIONS

3.1 National Flood Insurance Program Insurance Zones

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

The 1-percent-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-percent-annual-chance floodplain boundary corresponds to the boundary of areas of additional flood hazards.

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

Table 3: Flood Zone Designations by Community

Community	Flood Zone(s)
Borough of Cross Roads	A
Borough of Dallastown	*
Borough of Delta	AE, X
Borough of Dillsburg	A, AE, X
Borough of Dover	A, AE, X
Borough of East Prospect	*
Borough of Fawn Grove	*
Borough of Felton	AE, X
Borough of Franklintown	*
Borough of Glen Rock	A, AE, X
Borough of Goldsboro	AE, X
Borough of Hallam	A, AE, X

* No Special Flood Hazard Areas Identified

Table 3: Flood Zone Designations by Community (continued)

Community	Flood Zone(s)
Borough of Hanover	A, AE, X
Borough of Jacobus	A
Borough of Jefferson	*
Borough of Lewisberry	A, AE, X
Borough of Loganville	*
Borough of Manchester	A, AE, X
Borough of Mount Wolf	A, AE, X
Borough of New Freedom	*
Borough of New Salem	A
Borough of North York	AE, X
Borough of Railroad	A, AE, X
Borough of Red Lion	*
Borough of Seven Valleys	A
Borough of Shrewsbury	*
Borough of Spring Grove	A, AE, X
Borough of Stewartstown	*
Borough of Wellsville	A
Borough of West York	*
Borough of Windsor	AE, X
Borough of Winterstown	*
Borough of Wrightsville	AE, X
Borough of Yoe	AE, X
Borough of York Haven	AE, X
Borough of Yorkana	*
City of York	A, AE, X
Township of Carroll	A, AE, X
Township of Chanceford	A, AE, X
Township of Codorus	A, AE, X
Township of Conewago	A, AE, X
Township of Dover	A, AE, X

* No Special Flood Hazard Areas Identified

Table 3: Flood Zone Designations by Community (continued)

Community	Flood Zone(s)
Township of East Hopewell	A, AE, X
Township of East Manchester	A, AE, X
Township of Fairview	A, AE, X
Township of Fawn	A, AE, X
Township of Franklin	A, AE, X
Township of Heidelberg	A, AE, X
Township of Hellam	A, AE, X
Township of Hopewell	A, AE, X
Township of Jackson	A, AE, X
Township of Lower Chanceford	A, AE, X
Township of Lower Windsor	A, AE, X
Township of Manchester	A, AE, X
Township of Manheim	A, AE, X
Township of Monaghan	A, AE, X
Township of Newberry	A, AE, X
Township of North Codorus	A, AE, X
Township of North Hopewell	A, AE, X
Township of Paradise	A, AE, X
Township of Peach Bottom	A, AE, X
Township of Penn	A, AE, X
Township of Shrewsbury	A, AE, X
Township of Spring Garden	A, AE, X
Township of Springettsbury	A, AE, X
Township of Springfield	A, AE, X
Township of Warrington	A, AE, X
Township of Washington	A, AE, X
Township of West Manchester	A, AE, X
Township of West Manheim	A, AE, X
Township of Windsor	A, AE, X
Township of York	A, AE, X

3.2 Coastal Barrier Resources System

This section is not applicable to this FIS Project.

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

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)
Gunpowder-Patapsco	02060003	Gunpowder and Patapsco Rivers, Upper Chesapeake	Headwaters of minor tributaries downstream to Maryland border	1417
Lower Susquehanna	02050306	Susquehanna River	Begins at confluence with Chesapeake Bay and extends upstream to a point on the boundary Perry County and Dauphin Counties	2485
Lower Susquehanna – Swatara	02050305	Susquehanna River	Upstream of Lower Susquehanna HUC-8 on the main stem of the Susquehanna River up to and including Harrisburg PA, encompassing major tributaries Swatara and Conodoguinet Creek	1877

4.2 Principal Flood Problems

Table 6 contains a description of the principal flood problems that have been noted for York County by main flooding sources (FEMA, 2009).

Table 6: Principal Flood Problems

Flooding Source	Description of Flood Problems
Bennett Run	Bennett Run is the primary flooding source in the Borough of Lewisberry. No high-water marks or flood damage estimates were available from the borough officials, local residents interviewed for the May 17, 1982, FIS report noted out of bank flow along Bennett Run did occur in June 1972 and again in September 1975. The estimated 1- and 0.2-percent-annual-chance flood elevations were marked on the Front Street bridge over Bennett Run based on these storms.
Codorus Creek	Codorus Creek is the main source of flooding in the Boroughs of North York and Spring Grove; and in the Townships of Heidelberg, Jackson and Springettsbury. It is also one of the principal sources of flooding in the City of York and the Townships of East Manchester, Hellam, North Codorus, Spring Garden and West Manchester. During September 8, 2011 storm, approximately 0.5 mile upstream from bridge on Richland Avenue (SR 3054), Codorus Creek crested at 18.3 feet and measured peak flow of 16,500 cfs. Approximately 15 feet downstream from abutments of dismantled county highway bridge on Township Route 452, Codorus Creek crested at 9.92 feet and measured peak flow of 4,520 cfs. Codorus Creek near the City of York measured a peak flow of 30,000 cfs, slightly below the 32,000 cfs estimated for the 1933 flood. In the Township of East Manchester, water from Codorus Creek overran several home sites, flooding basements and first floors and caused structural damage. One state bridge over Codorus Creek was washed out and subsequently replaced by the Pennsylvania Department of Transportation (PDOT). Codorus Creek ravaged several roads in the Trout Run area of the Township of Hellam and flooded a number of homes near its mouth on the Susquehanna River. Erosion and sedimentation were severe on both the Codorus Creek in the Township of Hellam. Tropical Storm Eloise of September 1975 brought similar destruction, although damages were less than 1972. Major floods occurred on Codorus Creek in 1889, 1920, 1933, and 1934 in the Borough of North York and in 1920, 1933 and 1934 in the City of York and the Townships of Springettsbury, Spring Garden and West Manchester. The greatest known flood in these municipalities, however, occurred on Thursday, June 22, 1972, as a result of Hurricane Agnes (Shank, 1972). Codorus Creek crested at 26.4 feet, more than two feet above the previous all-time high of 24.0 feet in 1933 (Susquehanna River Basin Study Coordinating Committee, 1970). The Borough of Spring Grove and the Townships of Heidelberg, Jackson and North Codorus have experienced two major floods since 1972. The worst of these floods occurred in June 1972 as a result of Tropical Storm Agnes. Three years after Agnes, in September 1975, another major flood occurred during Tropical Storm Eloise. The recurrence periods for the Agnes and Eloise floods on Codorus Creek are approximately 0.57- and 2.5 percent-annual-chance floods, respectively. The floodwaters caused damage to property, bridges and culverts in the Townships of Heidelberg, Jackson and North Codorus.

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
Conewago Creek	Conewago Creek is the principal source of flooding in the Borough of York Haven and the Townships of Conewago, Dover and Newberry, and one of the principal sources of flooding in the Township of East Manchester. Low-lying areas in the Borough of York Haven and the Township of Conewago are subject to periodic flooding caused by overflow of Conewago Creek. The Township of Conewago experienced its most devastating floods in June 1972 from Hurricane Agnes and in September 1975 from Hurricane Eloise. Damages from Hurricane Agnes and Eloise included the disruption of utilities and surface and basement flooding. In 1975 the flooding was widespread, and the magnitude of flooding exceeded all prior floods of record. On September 26, 1975, Hurricane Eloise registered a gage height of 32.11 feet at USGS Gaging Station No. 01574000 located on Conewago Creek near Manchester, Pennsylvania. This flood had a discharge of 96,200 cfs, the equivalent to the 0.2-percent-annual-chance flood frequency. In 1972, Conewago Creek measured 81,700 cfs near Manchester, almost double the previous record flow at this gaging station. The recurrence interval for this flood was approximately the 0.33 percent-annual-chance flood frequency. During the 1972 flood, the major damage center in the Township of East Manchester was along Creek Bottom Road in a low-lying section near the confluence of Conewago and Little Conewago Creeks. Several summer homes, many of which were being used as permanent residences, received water in their first floors. Because of serious structural damage, a number of these homes could not be economically restored to a habitable condition and had to be abandoned. Hurricane Eloise brought a repetition of serious damage to many low-lying areas. On Conewago Creek stream gage readings show that the flow during Hurricane Eloise actually exceeded the flow during Hurricane Agnes. Major floods have occurred in the Township of Dover in 1920, 1933, and 1934. The greatest known flood, occurred on June 22, 1972, as a result of Hurricane Agnes (Shank, 1972). The principal source of flooding in the Borough of Dillsburg is Dogwood Run. The Borough of Dillsburg historically does not experience catastrophic floods since the majority of the development has been east of U.S. Route 15, away from the relatively low and flat floodplains of Dogwood Run. Although no damage estimates or high-water marks were available, flooding was reported to have occurred on Dogwood Run in June 1972 and in September 1975. (U.S. Department of the Interior, Geological Survey, 1961-1976; Department of Environmental Resources, Commonwealth of Pennsylvania, 1974)
East Branch Codorus Creek	East Branch Codorus Creek is one of the principal sources of flooding in the Townships of North Hopewell and Springfield.
North Branch Muddy Creek	North Branch Muddy Creek is the principal source of flooding in the Borough of Felton and one of the principal sources of flooding in the Townships of East Hopewell and North Hopewell.
South Branch Muddy Creek	South Branch Muddy Creek is one of the principal sources of flooding in the Townships of East Hopewell and Fawn.
Bald Eagle Creek	Bald Eagle Creek is an additional source of flooding in the Township of Fawn.

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
Muddy Creek	Muddy Creek is an additional source of flooding in the Townships of Fawn and Lower Chanceford. Since 1972, there have been two major floods on these streams. The worst of the two occurred in June 1972, as a result of Hurricane Agnes. Three years after Agnes, in September 1975, another major flood occurred during Hurricane Eloise. These floodwaters caused major damage to property, bridges and culverts in these municipalities. Due to heavy rainfall from Hurricane Agnes, Muddy Creek at Castle Fin measured 18,000 cfs, exceeding the previous record flow at this gaging site by approximately 1,400 cfs (U.S. Department of the Interior, Geological Survey, 1961-1976)
Fishing Creek No. 2	The floodplains of Fishing Creek No. 2 within the Borough of Windsor have been extensively developed for residential use. Although no damage estimates or high-water marks were available, flooding was reported by residents to have occurred in June 1972, September 1975 and August 1979. The flooding on August 1, 1979, was a result of intense thunder storm activity and was localized.
Fishing Creek No. 3	Fishing Creek No. 3 is an additional source of flooding within the Boroughs of Goldsboro and Windsor. In addition to the high river level, the prolonged period of rainfall from Hurricane Agnes created severe runoff conditions in the drainage area of Fishing Creek No. 3 which, produced high flows on the creek itself. During the 1972 flood, most of the serious property damage in the Borough of Goldsboro occurred in the river floodplain between the railroad tracks and the river itself. In this area, floodwaters completely destroyed a local marina, carrying boats, wharfs, and other paraphernalia down the river. A combination of backwater from the river and high flows also flooded three homes near the banks of Fishing Creek No. 3. Hurricane Eloise of September 1975 brought similar destruction to the Borough of Goldsboro, although damages were less than in 1972 because of a lower river stage. Nevertheless, the local marina business, which had been wiped out in 1972, suffered approximately \$100,000 in property damages.
Hartman Run	Hartman Run is the principal source of flooding in the Borough of Mount Wolf. Hartman Run and Musser Run are additional sources of flooding in the Township of East Manchester. In June 1972 and September 1975, tropical storms passing through the area created severe runoff conditions which in turn caused Hartman Run and one of its tributaries in the Borough of Mount Wolf to overflow their banks. Fortunately, land areas directly adjoining streams are essentially free of large-scale development. Consequently, no floodwaters from Hartman Run and its tributary entered dwellings or business establishments. There was some minor damage from the seepage of groundwater and surface water into basements. Also, road berms washed out at several locations, necessitating some cleanup work. On Hartman Run and Musser Run in the Township of East Manchester, there was little structural damage from the Agnes flood. However, many owners of property adjoining these streams reported serious bank erosion and topsoil loss. Because of increasing urbanization in the drainage areas of the two streams, many adjacent land areas are now threatened during heavy, localized thunderstorms. In terms of public facilities, the township spent about \$800 on road repairs following the storm.

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
Kreutz Creek	Kreutz Creek is the principal source of flooding in the Borough of Hallam and one of the principal sources of flooding in the Borough of Wrightsville and the Township of Hellam. The Borough of Hallam has a history of flooding on Kreutz Creek and its three tributaries. The worst flooding occurred in June 1972 when the creek and its feeder streams overflowed their banks, flooding nearby residential areas. The storm severely damaged a trailer park. Fifteen to twenty house trailers were ripped from their moorings and badly damaged by floodwaters. Water also entered the basements of several permanent homes, knocking out heating plants and destroying other items of personal property. Floodwaters from one tributary invaded the Hallam Park and washed away three borough-owned bridges. Hurricane Eloise of September 1975 brought many of the same problems to the Borough of Hallam, though on a somewhat reduced scale. The reach of Kreutz Creek located in the Township of Hellam overflowed its banks at the height of the storm, flooding numerous homes and washing out segments of road bed. Destruction was especially heavy in a mobile home park in the vicinity of Freysville Road. Erosion and sedimentation were severe on Kreutz Creek in the Township of Hellam. Although the Borough of Wrightsville is situated along the Susquehanna River and at the mouth of Kreutz Creek, past flooding damages in the borough have been surprisingly light. During the 1972 and 1975 floods, the only area suffering significant damages was the southeastern corner of the borough near the mouth of Kreutz Creek. In 1972, the creek bank was severely eroded and flood debris clogged the stream bed. The borough expended approximately \$1,000 to clear the stream bed and install rip-rap on the stream banks. In 1975, the damage was more severe. The sewage treatment plant lagoon at the mouth of the creek was flooded and filled with debris. Again, the stream banks were scoured and stream bed clogged necessitating rip-rap and clean out. Total repairs amounted to approximately \$12,000. Fortunately, no residential, commercial, or industrial losses were incurred during either flood.
Mill Creek	Mill Creek is additional source of flooding in the Townships of Spring Garden and York. Mill Creek is also an additional source of flooding in the Borough of Yoe. During Hurricane Agnes, two people died by drowning in Mill Creek floodwaters in the vicinity of Camp Betty Washington Road, in the Township of York. High-water was experienced on Mill Creek in the Borough of Yoe in June 1972 and in September 1975, with the 1975 high-water attaining the greatest depth. The high-water in the Borough of Yoe in 1972 and 1975 was reported by local residents to have been just below the low chord of the culvert connecting Church Street and Main Street.
Tyler Run	Tyler Run is additional sources of flooding in the Townships of Spring Garden and York. Tyler Run is source of flooding in the City of York. Periodic flooding is also experienced in the Township of York during low duration high intensity storms along Tyler Run. Flooding can be attributed to upstream developments that have increased accelerated runoff in the watershed. Major floods have occurred in the City of York and the Townships of Dover and West Manchester in 1920, 1933 and 1934. The greatest known flood, however, occurred on June 22, 1972, as a result of Hurricane Agnes
Inners Creek	Inners Creek is another source of flooding in the Township of York.

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
Little Conewago Creek	Little Conewago Creek is another source of flooding in the Townships of Conewago, Dover and West Manchester. Low-lying areas in the Township of Conewago are subject to periodic flooding caused by overflow of Little Conewago Creek, and numerous small tributaries. Canal Road was closed for traffic, and the bridge over Little Conewago Creek during Hurricane Eloise was flooded, with 1.5 feet of water above the bridge deck.
Fox Run	Fox Run and its tributaries are additional sources of flooding in the Township of Dover
South Branch Codorus Creek	South Branch Codorus Creek is the principal source of flooding in the Borough of Glen Rock and one of the principal sources of flooding in the Townships of North Codorus, Springfield and York. The flooding associated with Hurricane Agnes had a return period of approximately 0.43-percent-annual-chance flood frequency on South Branch Codorus Creek. Three years after Agnes, in September 1975, another major flood occurred during Hurricane Eloise. The return period for the Eloise flood on South Branch Codorus Creek was approximately the 0.80-percent-annual-chance flood frequency. These floodwaters caused major damage to property, bridges and culverts in these municipalities. Within the Borough of Glen Rock overflow of South Branch Codorus Creek has plagued the downtown area with flooding problems. Flooding problems have been aggravated by extensive development in the floodplain resulting in increased flood heights.
Susquehanna River	Susquehanna River is the principal source of flooding in the Boroughs of Goldsboro, Wrightsville and York Haven; the Townships of Chanceford, East Manchester, Fairview, Hellam, Lower Chanceford, Lower Windsor and Newberry. Since 1972, these municipalities have experienced two major floods. The worst of the two occurred in June 1972, as a result of Tropical Storm Agnes. Three years after Agnes, in September of 1975, another major flood occurred during Hurricane Eloise. The floodwaters in both storms caused damage to property, bridges, and culverts in the Township of Chanceford. In the Township of Fairview, the flood of June 2, 1889, was the maximum known during the period from 1786 to 1890. The gage height of this storm at the Harrisburg gage station was 26.8 feet with a peak discharge of 654,000 cfs. Other larger peak discharges and/or gage heights taken at the USGS Gaging Station on the Susquehanna River at Harrisburg, Pennsylvania (located approximately 1.9 miles upstream from the Township of Fairview) include a discharge of 740,000 cfs and a gage height of 29.23 feet on March 19, 1936, a discharge of 494,000 cfs and a gage height of 21.80 feet on May 29, 1946, a discharge of 392,000 cfs and a gage height of 18.48 on February 27, 1961, a record discharge of 1,020,000 cfs and a gage height of 32.57 feet in June, 1972, a gage height of 18.19 feet in February, 1975, and a gage height of 23.68 feet in September 1975. The return periods for the floods of 1889, 1936 and 1972 were approximately 1.33-, 0.71-, and 0.22-percent-annual-chance floods. Flooding in the Township of Fairview along Yellow Breeches and other creeks was severe in June 1972 and September 1975. Flooding conditions along the Susquehanna River have also been aggravated by the effects of ice jams. Two reports, "A Study of the Ice Jam Problem at the Safe Harbor Hydroelectric Project" and "Ice Floods on the Lower Susquehanna

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
	River" (Harza Engineering Company, 1981; Safe Harbor Water Power Corporation, 1945) provide high-water mark data for ice jam events dating back to 1902. In extreme cases, ice jam flooding has caused flood elevations approximately 10 feet higher than the previously published 1-percent-annual-chance flood water-surface elevations. In 1978 and 1996, the gage at Stamans Run recorded peak ice jam related flood elevations of 242.85 feet and 242.28 feet. During the 1972 Agnes Flood, the Township of East Manchester, the Pennsylvania Power and Light power generating station on Brunner Island in the Susquehanna River suffered substantial losses. Elsewhere along the river, there was surprisingly little property damage, owing mainly to the long railroad embankment which acted somewhat like a levee in keeping floodwaters from nearby residential areas. The major damage center in the Township of Hellam was along the Susquehanna River. On North Front Street Extended, just outside the Borough of Wrightsville limits, and on North River Drive, flood waters from the Susquehanna River caused extensive damage to roads and residences. During Tropical Storm Agnes, serious structural damage was confined entirely to areas adjoining Susquehanna River and at the mouth of Muddy Creek in the Township of Lower Chanceford. At these locations, water entered the first floors of many summer homes and cottages, entirely destroying some and twisting others off their foundations. The summer homes were already being occupied as permanent residences or owners had plans to eventually convert them into permanent residences. One such structure also housed a general store. Elsewhere in the township, damages were comparatively light. Despite high flows on local streams, the steep stream banks which characterize the drainage system of the township generally prevented floodwaters from spreading over large areas of land. Hurricane Eloise of September 1975 inflicted minor damage to riverbank properties. Steep stream banks protected inland areas. In the Borough of York Haven low-lying areas are subject to periodic flooding caused by overflow of the Susquehanna River. In June 1972, Hurricane Storm Agnes caused heavy flooding along the Susquehanna River. However, in March 1904, an ice flood on the Susquehanna River caused heavy damages to the York Haven Water and Power Company's hydroelectric power plant, the York Haven Paper Company and many farms and properties on the island. At the time it was considered the worst natural disaster in the history of York Haven.
Yellow Breeches Creek	Yellow Breeches Creek is the principal source of flooding within the Townships of Carroll and Monaghan. The Township of Carroll has historically experienced its most severe flooding along the Yellow Breeches Creek.. Additional sources of flooding in the Township of Carroll include the tributaries of Yellow Breeches Creek. Additional sources of flooding in the Township of Monaghan include the tributaries of Yellow Breeches Creek, Stony Run No. 1, Pippins Run, Stony Run No. 2, and Fishers Run. Flooding along these tributaries has occurred with approximately the same frequency as that on Yellow Breeches Creek. Most of the flooding along the tributaries in the Township of Carroll is caused by the restrictions of bridges. This condition causes backwater or out-of-bank flow which floods nearby homes and properties. Generally the floodplains of the

Table 6: Principal Flood Problems (continued)

Flooding Source	Description of Flood Problems
	tributaries in the Township of Monaghan are narrow and the magnitude of flooding is less severe. The most serious flood of record along the reaches of these streams located in the Township of Carroll was caused by Tropical Storm Agnes in June 1972, when flooding along West Branch of Fishers Run was reported at Chestnut Grove Road, Ore Bank Road, and Mumper Lane; along Stony Run No. 2 at the intersection of Old York Road and Warrington Road; and along Dogwood Run at Old Mill Road, Spring Lane Road, Junction Road, and Creek Road. Flood depths ranged from 1 to 5 feet in these areas. Similar flooding occurred after Hurricane Eloise in October 1975. The major floods of record along the reach of Yellow Breeches Creek in the Township of Monaghan occurred in January 1910, March 1913, August 1915, September 1916, June 1972, September 1975 and October 1976. The highest flood of record was in September 1975. During April, 2011 storm, approximately 50 feet downstream from single-span highway bridge on Green Lane Drive, Yellow Breeches Creek crested at 14.6 feet and measured peak flow of 10,400 cfs

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

Table 7: Historic Flooding Elevations

Flooding Source	Location	Historic Peak (Feet NAVD)	Event Date	Approximate Recurrence Interval (years)	Source of Data
Codorus Creek	Near York, Pennsylvania	17.52	September, 2011	*	USGS gage
Susquehanna River	At Harrisburg, Pennsylvania (located approximately 1.9 miles upstream from the Township of Fairview)	31.82	June, 1972	454	USGS gage
Conewago Creek	At Manchester	*	1975	500	USGS gage

*Data Not Available

4.3 Non-Levee Flood Protection Measures

Table 8 contains information about non-levee flood protection measures within York 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
Codorus Creek	Indian Rock Dam	Flood Control Dam	Three miles upstream from York	Constructed by USACE for flood control
East Branch Codorus Creek	Lake Redman Dam	Flood Control Dam	York and Springfield Township boundary, upstream from City of York	Primarily a water supply facility. Not designed to provide flood protection
East Branch Codorus Creek	Lake Williams Dam	Dam	York and Springfield Township boundary, upstream from City of York	Primarily a water supply facility. Not designed to provide flood protection
Long Arm Creek	Long Arm Dam	Dam	Border of York and Adams County in West Manheim Township	Earthen rockfill dam. Owned by the Hanover Municipal Water Authority
West Branch Codorus Creek	Lake Marburg Dam	Flood Control Dam	Border of Heidelberg and Manheim Townships	Maintained by P.H. Glatfelter Company

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 CFR, 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 percent 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 FIRMs 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 percent 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 York 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.

Please note that FEMA has identified levees in this jurisdiction that have not been demonstrated by the community or levee owner to meet the requirements of 44CFR Part 65.10 of the NFIP regulations as it relates to the levee's capacity to provide 1% annual chance flood protection. As such, the existing flood hazard analysis in the affected areas has been carried forward from the previously-printed FIRM and the area has been clearly identified on the FIRM panel with notes and bounding lines. This has been done to inform users that a temporary mapping action has been put in place until such time as FEMA is able to initiate a new flood risk project to apply new flood hazard mapping protocols for leveed areas. These levees occur on FIRM panel(s) 42133C0326F, 42133C0327F, and 42133C0328F on Codorus Creek and are identified on FIRM panels (with notes and bounding lines) as potential areas of flood hazard data changes based on further review. Levees and their accreditation status are listed in Table 9 of this FIS report.

Table 9: Levees

Community	Flooding Source	Levee Location	Levee Owner	USACE Levee	Levee ID	Covered Under PL84-99 Program?	FIRM Panel(s)	Levee Status
City of York Townships of Spring Garden and Springettsbury	Codorus Creek	Right Bank	Baltimore District U.S. Army Corps of Engineers	Yes	2305340001	Yes	42133C0326F 42133C0328F	De-Accredited
Borough of North York, City of York, Township of Manchester	Codorus Creek	Left Bank	Baltimore District U.S. Army Corps of Engineers	Yes	2305340002	Yes	42133C0326F 42133C0328F	De-Accredited
Township of East Manchester	Black Gut Ditch	Left Bank	Pennsylvania Power and Light	No	1301000654	No	42133C0204F 42133C0208F	De-Accredited

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-percent-annual-chance, respectively, of being equaled or exceeded during any year.

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

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

5.1 Hydrologic Analyses

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

A summary of the discharges is provided in Table 10. Frequency Discharge-Drainage Area Curves used to develop the hydrologic models may also be shown in Figure 5 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

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Bald Eagle Creek	At the confluence with Muddy Creek	10.4	1,530	*	2,920	3,725	*	5,950
Bald Eagle Creek	Approximately 1,600 feet Upstream of Jones Road	5.8	1,025	*	2,010	2,595	*	4,200
Barshinger Creek	At the confluence with East Branch Codorus Creek	5.52	810	*	1,220	1,400	*	1,760
Barshinger Creek Tributary 2	At the confluence with Barshinger Creek	1.08	345	*	515	610	*	830
Beaver Creek	At the confluence with Conewago Creek	17.6	2,065	*	3,940	5,030	*	8,000
Beaver Creek	Upstream of Paradise Run	9.74	1,375	*	2,705	3,495	*	5,700
Beaver Creek	Upstream of Beaver Creek Tributary A	6.86	1,080	*	2,160	2,805	*	4,650
Beaver Creek	Upstream of T-469 bridge	5.54	935	*	1,890	2,465	*	4,050
Beaver Creek	Approximately 100 feet upstream of U.S. Route 30	1.91	445	*	960	1,280	*	2,230
Beaver Creek Tributary A	At the confluence with Beaver Creek	2.62	560	*	1,175	1,550	*	2,600
Bennett Run	Near Market Street bridge	5.50	696	*	1,250	1,555	*	2,550

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Bennett Run	Near Front Street bridge	5.30	669	*	1,201	1,492	*	2,400
Bermudian Creek	At confluence with Conewago Creek	110.0	7,205	*	12,168	14,706	*	23,100
Bermudian Creek	Approximately 450 feet Upstream of Bermudian Church Road	109.0	7,148	*	12,078	14,601	*	22,900
Buffalo Valley Run	At Country Club Road	3.7	1,280	*	2,115	2,530	*	3,664
Buffalo Valley Run	At Business Interstate 83	2.6	1,009	*	1,678	2,012	*	2,928
Cabin Creek	Downstream of Forge Hill Road	13.3	1,530	*	2,844	3,575	*	6,100
Cabin Creek	At the confluence with Cabin Creek Tributary No. 2	11.7	1,394	*	2,586	3,248	*	5,526
Cabin Creek	At Furnace Road Bridge	5.80	731	*	1,317	1,638	*	2,700
Cabin Creek Tributary No. 2	At the confluence with Cabin Creek	3.06	386	*	679	838	*	1,340
Cabin Creek Tributary No. 2	At the Cabin Creek Road Bridge	2.64	332	*	582	716	*	1,110
Cabin Creek Tributary No. 5	At the confluence with Cabin Creek	1.93	208	*	422	510	*	810

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Canadochly Creek	At the confluence with the Susquehanna River	3.07	388	*	682	842	*	1,370
Canadochly Creek	At East Bank Hill Road Bridge	2.51	316	*	552	680	*	1,102
Canadochly Creek	At Trinity North Road	0.67	84	*	140	170	*	260
Carter Creek	At the confluence with North Branch Muddy Creek	3.13	675	*	1,360	1,775	*	2,900
Centerville Creek	At confluence with South Branch Codorus Creek	14.7	1,637	*	3,045	3,827	*	6,620
Centerville Creek	At Sunny Slope Road	3.5	442	*	781	966	*	1,550
Centerville Creek	At Private Road near limit of detail study	1.95	246	*	427	523	*	840
Centerville Creek Tributary	At confluence with Centerville Creek	1.33	160	*	327	413	*	680
Cherry Run	At confluence with South Branch Codorus Creek	1.64	181	*	369	472	*	760
Codorus Creek	At the confluence with the Susquehanna River	270.0	11,590	*	20,370	25,330	*	40,350

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Codorus Creek	At the corporate limits between the Townships of East Manchester and Manchester	177.0	11,590	*	20,370	25,330	*	40,350
Codorus Creek	At Richland Avenue	125.0	9,100	*	16,000	19,900	*	31,700
Codorus Creek	At USGS gaging station at Spring Grove (No. 015474500)	75.5	5,360	*	11,460	15,410	*	29,380
Codorus Creek	At the corporate limits between the Townships of Heidelberg and Jackson	47.5	3,975	*	8,795	11,990	*	21,000
Codorus Creek	At confluence of West Branch of Codorus Creek	14.4	1,621	*	3,752	5,213	*	11,100
Codorus Creek	At Pentland Road Bridge	9.4	1,159	*	2,649	3,671	*	7,813
Codorus Creek	At Private Road bridge	6.6	832	*	1,873	2,580	*	5,488
Codorus Creek	At Wolfgang School Road Bridge	1.45	183	*	390	526	*	1,110
Codorus Creek Tributary A	Approximately 200 feet downstream of Private Road	3.8	954	*	1,618	1,957	*	2,911
Codorus Creek Tributary A	Approximately 1,100 feet upstream of Emig Road	2.4	811	*	1,432	1,756	*	2,683

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Codorus Creek Tributary A	Approximate 200 feet upstream of Church Road	1.7	659	*	1,218	1,516	*	2,393
Codorus Creek Tributary A1	At the confluence with Codorus Creek Tributary A	1.16	305	*	515	615	*	860
Codorus Creek Tributary B	At the confluence with Codorus Creek	2.78	670	*	1,069	1,266	*	1,804
Codorus Creek Tributary B	At Interstate 83	2.58	639	*	1,018	1,206	*	1,715
Codorus Creek Tributary B	Approximately 2,000 feet upstream of Lightner Road	1.12	412	*	723	885	*	1,349
Codorus Creek Tributary C	At the confluence with Codorus Creek	3.09	655	*	1,365	1,800	*	3,050
Codorus Creek Tributary D	At the confluence with Codorus Creek	0.66	82	*	157	200	*	320
Codorus Creek Tributary E	At the confluence with Codorus Creek	0.8	107	*	208	260	*	415
Codorus Creek Tributary E	At Wool Mill Road bridge	0.4	52	*	106	122	*	198
Conewago Creek	At the corporate limits between the Township of Newberry and the Borough of York Haven	515.0	26,200	*	41,800	50,400	*	77,600

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Conewago Creek	At the confluence of Little Conewago Creek	446.0	23,500	*	37,500	45,200	*	69,600
Conewago Creek	At the confluence of Bermudian Creek	395.8	20,666	*	32,807	38,473	*	62,000
Conewago Creek	At Harlacher Dam	275.5	15,372	*	24,831	29,515	*	49,000
Conewago Creek	At the corporate limits between the Townships of Dover and Paradise	249.4	14,171	*	23,000	27,388	*	45,500
Conewago Creek Tributary 43	At the confluence with Conewago Creek	3.05	385	*	677	835	*	1,330
Conewago Creek Tributary 43	Near New York Road	2.29	289	*	503	618	*	970
Deer Creek	At Five Forks Road	5.16	925	*	1,830	2,365	*	3,850
Deer Creek	Upstream of the confluence of Deer Creek Tributary 6	2.83	615	*	1,250	1,635	*	2,700
Deer Creek Tributary 6	At the confluence with Deer Creek	1.07	510	*	830	970	*	1,320
Dogwood Run	At the confluence with Yellow Breeches Creek	8.96	807	*	1,566	2,010	*	3,418

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Dogwood Run	Approximately 1,000 feet upstream of York Road/ (SR-74)	7.56	734	*	1,401	1,787	*	2,989
Dogwood Run	Just upstream of the confluence of Tributary A to Dogwood Run	4.91	404	*	803	1,040	*	1,796
Dogwood Run	Upstream of Greenhouse Road	2.98	254	*	517	674	*	1,180
East Branch Codorus Creek	Immediately upstream of the confluence of South Branch Codorus Creek	44.56	4,541	*	10,093	13,812	*	27,484
East Branch Codorus Creek	Immediately upstream of the confluence of East Branch Codorus Creek Tributary 11	41.30	4,209	*	9,355	12,802	*	25,474
East Branch Codorus Creek	Immediately upstream of the confluence of Inners Creek	31.97	4,405	*	7,686	9,390	*	14,255
East Branch Codorus Creek	Approximately 450 feet downstream of Log Road	31.8	4,390	*	7,660	9,357	*	14,207
East Branch Codorus Creek	Immediately upstream of the confluence of East Branch Codorus Creek Tributary 12	28.17	4,081	*	7,153	8,751	*	13,328

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
East Branch Codorus Creek	Immediately upstream of the confluence of Barshinger Creek	22.24	3,489	*	6,173	7,577	*	11,619
Ebaughs Creek	At Stewartstown Road	4.66	865	*	1,720	2,235	*	3,700
Ebaughs Creek	Upstream of confluence of Ebaughs Creek Tributary 1	2.37	490	*	1,015	1,335	*	2,300
Ebaughs Creek Tributary 1	At confluence with Ebaughs Creek	1.41	680	*	1,110	1,305	*	1,770
Fishers Run	At confluence with Stony Run No. 2	4.44	445	*	938	1,245	*	2,281
Fishing Creek No. 1	At the confluence with Muddy Creek	11.5	1,640	*	3,115	3,970	*	6,300
Fishing Creek No. 1	Upstream of the confluence of Neill Run	5.75	1,020	*	2,005	2,590	*	4,200
Fishing Creek No. 1	At Kilgore Road Bridge	3.78	765	*	1,535	1,995	*	3,300
Fishing Creek No. 1	Upstream of the confluence of Fishing Creek No. 1 Tributary A	1.55	415	*	870	1,150	*	1,950
Fishing Creek No. 2	At State Route 624 (Craley Road)	4.8	610	*	1,092	1,355	*	2,239

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Fishing Creek No. 2	At the corporate limits between the Townships of Lower Windsor and Windsor	4.01	506	*	900	1,114	*	1,850
Fishing Creek No. 2	At Maryland Avenue	2.61	329	*	576	709	*	1,188
Fishing Creek No. 2	At the corporate limits between the Borough of Windsor and the Township of Windsor	1.07	135	*	228	277	*	435
Fishing Creek No. 3	At the confluence with the Susquehanna River	17.87	2,803	*	4,730	5,692	*	8,367
Fishing Creek No. 3	Immediately upstream of South York Street	17.73	2,782	*	4,695	5,650	*	8,306
Fishing Creek No. 3	Approximately 1600 feet. upstream of South York Street	17.56	2,757	*	4,653	5,600	*	8,232
Fishing Creek No. 3	Immediately upstream of Pines Road	17.5	2,748	*	4,638	5,582	*	8,205
Fox Run	At the corporate limits between the Townships of Manchester and Dover	14.3	1,890	*	3,150	3,675	*	4,860
Fox Run Tributary A	At the confluence with Fox Run	5.45	864	*	1,444	1,684	*	2,228

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Fox Run Tributary A1	At the confluence with Fox Run Tributary A	5.65	882	*	1,470	1,715	*	2,268
Fox Run Tributary 4	At the Confluence with Fox Run	1.12	550	*	770	880	*	1,265
Furnace Creek	At the corporate limits between the Townships of Penn and West Manchester	2.9	363	*	638	786	*	1,310
Furnace Creek	Approximately 550 feet upstream of Fuhrman Mill Road (Limit of Detailed Study)	1.0	121	*	204	248	*	380
Gitts Run	At the confluence with Oil Creek	1.9	475	*	810	965	*	1,350
Hartman Run	Approximately 5,000 feet upstream from the mouth of Black Gut	3.88	1,270	*	3,220	4,660	*	8,580
Hartman Run	At the confluence of Tributary C	3.38	1,170	*	2,800	4,160	*	7,540
Hartman Run	At the Confluence of Tributary No. 2 to Hartman Run	1.29	440	*	1,120	1,630	*	2,950
Hartman Run	Approximately 1,400 feet upstream of Forge Hill Road	0.85	250	*	700	1,060	*	1,960

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Honey Run	At confluence with Little Conewago Creek	3.59	882	*	1,470	1,715	*	2,268
Inners Creek	At confluence with East Branch Codorus Creek	3.11	750	*	1,120	1,280	*	1,610
Kreutz Creek	Approximately 2,370 feet downstream of Meadow Road	9.24	1,916	*	3,383	4,148	*	6,348
Kreutz Creek	Immediately upstream of the confluence of Kreutz Creek Tributary 15	6.92	1,580	*	2,792	3,425	*	5,244
Kreutz Creek	Immediately upstream of Dietz Road	5.08	1,322	*	2,352	2,892	*	4,448
Kreutz Creek Tributary D	At the confluence with Kreutz Creek	0.42	410	*	540	590	*	710
Kreutz Creek Tributary D	At the corporate limits between the Township of Hellam and the Borough of Hallam	0.16	150	*	200	225	*	270
Kreutz Creek Tributary E	At the confluence with Kreutz Creek	11.6	1,680	*	3,750	5,070	*	10,100
Kreutz Creek Tributary E	At the mouth of Kreutz Creek Tributary E1	4.39	1,210	*	2,880	4,020	*	8,250
Kreutz Creek Tributary E	At the mouth of Kreutz Creek Tributary E2	3.48	950	*	2,280	3,180	*	6,600

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Kreutz Creek Tributary E1	At the confluence with Kreutz Creek Tributary E	7.18	1,360	*	3,120	4,270	*	8,620
Kreutz Creek Tributary E1	At the confluence of Kreutz Creek Tributary E1A	6.73	1,290	*	2,960	4,050	*	8,350
Kreutz Creek Tributary E2	At the confluence with Kreutz Creek Tributary E	0.87	490	*	650	720	*	850
Kreutz Creek Tributary E2	At cross section G	0.61	400	*	530	590	*	700
Little Conewago Creek	Immediately upstream of the confluence with Conewago Creek (Approximately 400 feet. downstream of Bowers Bridge Road)	65.49	6,802	*	11,358	13,669	*	20,106
Little Conewago Creek	Approximately 650 feet. downstream of Conewago Creek Road	64.58	6,735	*	11,249	13,537	*	19,914
Little Conewago Creek	Approximately 120 feet. upstream of the confluence of Little Conewago Creek Tributary 24	60.79	6,455	*	10,784	12,979	*	19,096
Little Conewago Creek	Approximately 1000 feet. downstream of I-83	59.88	6,389	*	10,670	12,841	*	18,891

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Little Conewago Creek	Approximately 140 feet. upstream of the confluence of Little Conewago Creek Tributary 4	58.53	6,287	*	10,501	12,638	*	18,592
Little Conewago Creek	Immediately upstream of the Canal Road Ext	57.64	6,220	*	10,389	12,503	*	18,393
Little Conewago Creek	Approximately 100 feet. upstream of the confluence of Little Conewago Creek Tributary 16	26.53	3,525	*	5,856	7,035	*	10,314
Little Conewago Creek	Approximately 650 feet. upstream of Poplars Road	25.02	3,350	*	5,584	6,716	*	9,872
Little Conewago Creek	Approximately 1250 feet. upstream of the confluence of Shiloh Tributary	22.25	2,985	*	5,056	6,117	*	9,107
Little Conewago Creek	Immediately upstream of the confluence of Little Conewago Creek Tributary 19	20.16	2,745	*	4,659	5,642	*	8,417

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Little Conewago Creek	Approximately 200 feet. upstream of the confluence of Honey Run	16.57	2,498	*	4,311	5,249	*	7,922
Little Conewago Creek	Approximately 1.0 miles upstream of South Salem Church Road	14.88	2,296	*	3,958	4,818	*	7,267
Little Conewago Creek	Immediately upstream of the confluence of Paradise Creek	6.46	1,172	*	1,993	2,415	*	3,612
Little Conewago Creek	Approximately 200 feet. downstream of Pine Road	5.91	1,081	*	1,832	2,219	*	3,311
Little Conewago Creek	Approximately 1400 feet. upstream of the confluence of Little Conewago Creek Tributary 24	2.48	637	*	1,108	1,354	*	2,057
Little Conewago Creek	Upstream of the confluence of Little Conewago Creek Tributary 24	2.41	530	*	1,110	1,475	*	2,500
Little Conewago Creek Tributary 16	Approximately 100 feet. upstream of the confluence with Little Conewago Creek	2.7	937	*	1,683	2,075	*	3,208

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Little Conewago Creek Tributary 16	Approximately 0.35 miles downstream of Hambiltonian Way	1.1	525	*	972	1,211	*	1,913
Little Conewago Creek Tributary 24	Approximately 1000 feet. upstream of the confluence with Little Conewago Creek	1.4	448	*	793	975	*	1,501
Michael Run	Approximately 175 feet downstream of Cooper Road	1.96	500	*	1,030	1,360	*	2,300
Mill Branch	At the confluence with Otter Creek	2.81	625	*	1,275	1,670	*	2,750
Mill Branch	Upstream of the Shaws School Road Bridge	1.61	430	*	895	1,180	*	2,000
Mill Creek	At the confluence with Codorus Creek	18.63	4,250	*	8,600	11,400	*	22,000
Mill Creek	At the corporate limits between the Townships of Springettsbury and York	9.72	1,740	*	2,610	2,995	*	3,765
Mill Creek	Immediately upstream of the confluence with Mill Creek Tributary A	5.47	1,135	*	1,700	1,955	*	2,455

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Mill Creek	Immediately downstream of Camp Betty Washington Road	3.44	780	*	1,170	1,345	*	1,695
Mill Creek	At the downstream corporate limits between the Borough of Yoe and the Township of York	1.47	342	*	615	755	*	1,150
Mill Creek	At Boundary Avenue	0.97	215	*	389	496	*	800
Mill Creek Tributary A	At the confluence with Mill Creek	3.59	560	*	840	960	*	1,210
Mill Creek Tributary A	Immediately upstream of confluence of Mill Creek Tributary A1	1.8	360	*	540	620	*	780
Mill Creek Tributary A1	At confluence with Mill Creek Tributary A	1.56	320	*	490	560	*	700
Muddy Creek	At the confluence with Scott Creek (downstream limit of detailed study)	128.0	8,520	*	14,400	17,570	*	25,500
Muddy Creek	Upstream of the confluence of Fishing Creek No. 1	111.0	7,730	*	13,160	16,090	*	23,800
Muddy Creek	Upstream of the confluence of Bald Eagle Creek	89.7	6,680	*	11,470	14,070	*	20,700

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Neill Run	At the confluence with Fishing Creek No. 1	5.64	1,005	*	1,975	2,545	*	4,150
Neill Run	Upstream of the confluence of Tributary B	4.30	835	*	1,665	2,155	*	3,500
North Branch Bermudian Creek	Near Bentz Mill Road Bridge	23.5	2,056	*	3,738	4,644	*	7,620
North Branch Bermudian Creek	At the corporate limits between the Townships of Washington and Franklin	11.1	1,337	*	2,476	3,109	*	5,250
North Branch Bermudian Creek	At the confluence with North Branch Bermudian Creek 3	7.43	938	*	1,704	2,127	*	3,647
North Branch Bermudian Creek	At Century Lane	1.26	158	*	270	329	*	530
North Branch Bermudian Creek Tributary 8	At the confluence with North Branch Bermudian Creek	2.7	342	*	599	738	*	1,190
North Branch Bermudian Creek Tributary 9	At the confluence with North Branch Bermudian Creek	5.1	640	*	1,148	1,426	*	2,370

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
North Branch Bermudian Creek Tributary 9	At the corporate limits between the Townships of Washington and Warrington	2.22	280	*	487	599	*	900
North Branch Bermudian Creek Tributary 9	Approximately 1,100 feet upstream of Baltimore Road (limit of study)	1.13	142	*	241	294	*	465
North Branch Bermudian Creek Tributary 15	At the confluence with North Branch Bermudian Creek	3.53	446	*	789	975	*	1,600
North Branch Bermudian Creek Tributary 15	At U.S. Route 15 (Limit of Detailed Study)	3.42	432	*	763	943	*	1,540
North Branch Bermudian Creek Tributary 17	At the confluence with North Branch Bermudian Creek	1.18	251	*	443	522	*	790
North Branch Muddy Creek	Approximately 100 feet. upstream of the confluence of North Branch Muddy Creek Tributary 3	38.09	4,954	*	8,651	10,572	*	16,063

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
North Branch Muddy Creek	Immediately upstream of Laurel Road	35.82	4,762	*	8,325	10,178	*	15,477
North Branch Muddy Creek	Immediately upstream of the confluence of Rambo Run	23.59	3,638	*	6,412	7,860	*	12,020
North Branch Muddy Creek	Immediately downstream of the intersection of Fulton School Road and Fenmore Road	23.21	3,600	*	6,348	7,782	*	11,903
North Branch Muddy Creek	Approximately 200 feet. upstream of the confluence of Carter Creek (Approximately 300 feet. downstream of Brogueville Road)	19.6	3,230	*	5,712	7,009	*	10,743
North Branch Muddy Creek	Approximately 0.5 miles upstream of Brogueville Road	18.05	3,063	*	5,426	6,661	*	10,220
North Branch Muddy Creek	Approximately 0.6 miles upstream of Brogueville Road	16.96	2,944	*	5,219	6,410	*	9,841
North Branch Muddy Creek	Approximately 0.7 miles downstream of Beaver Street	16.75	2,920	*	5,178	6,360	*	9,765

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
North Branch Muddy Creek	Approximately 100 feet. upstream of the confluence of Pine Run (Immediately downstream of Waters Street)	10.77	2,178	*	3,920	4,840	*	7,512
North Branch Muddy Creek	Approximately 120 feet. upstream of the confluence of North Branch Muddy Creek Tributary 11 (Approximately 130 feet. downstream of Red Lion Avenue)	7.1	1,660	*	3,018	3,738	*	5,843
North Branch Muddy Creek	Approximately 150 feet. upstream of the confluence of North Branch Muddy Creek Tributary 12 (Approximately 450 feet. downstream of Huson Road)	3.96	1,137	*	2,094	2,606	*	4,110
North Branch Muddy Creek	Approximately 400 feet. downstream of Grove Road	2.8	909	*	1,687	2,104	*	3,337
North Branch Muddy Creek	Approximately 400 feet. upstream of Herbst Road	1.68	652	*	1,223	1,531	*	2,446

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
North Branch Muddy Creek Tributary 3	At the confluence with North Branch Muddy Creek	2.96	650	*	1,310	1,710	*	2,850
North Branch Muddy Creek Tributary 11	At the confluence with North Branch Muddy Creek	3.56	735	*	1,475	1,920	*	3,200
North Branch Muddy Creek Tributary 12	At the confluence with North Branch Muddy Creek	2.87	635	*	1,290	1,680	*	2,800
North Branch Muddy Creek Tributary 13	At the confluence with North Branch Muddy Creek	0.94	87	*	199	255	*	460
North Branch Muddy Creek Tributary 13	At Dull Road	0.54	43	*	113	151	*	300
Oil Creek	At the confluence with Codorus Creek	16.8	2,095	*	4,005	5,120	*	8,200
Oil Creek	Upstream of the confluence of Oil Creek Tributary 2	13	1,750	*	3,390	4,350	*	7,000
Oil Creek	Upstream of the confluence of Oil Creek Tributary 3	7.42	1,195	*	2,375	3,080	*	5,000
Oil Creek	Upstream of the confluence of Gitts Run	4.27	820	*	1,670	2,190	*	3,650

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Otter Creek	At the Kline Road bridge	18.1	2,235	*	4,145	5,240	*	8,200
Paradise Creek	Immediately upstream of the confluence with Little Conewago Creek	7.21	1,611	*	2,901	3,583	*	5,568
Paradise Creek	Approximately 0.3 miles upstream of Lefever Road	6.07	1,431	*	2,583	3,193	*	4,970
Pierceville Run	At the confluence with Centerville Creek	6.67	842	*	1,523	1,899	*	3,150
Pierceville Run	At Pierceville Road	2.21	279	*	486	597	*	970
Pine Run	At the confluence with North Branch Muddy Creek	5.61	1,005	*	1,980	2,555	*	4,150
Pippins Run	At the confluence with Yellow Breeches Creek	2.79	330	*	713	955	*	1,787
Plum Creek	In Adams County	5.07	1,071	*	1,641	1,916	*	2,643
Plum Creek	Immediately upstream of the confluence of Plum Creek Tributary 1	1.56	624	*	1,138	1,410	*	2,206
Plum Creek Tributary 1	At the confluence with Plum Creek	0.72	220	*	365	430	*	595
Rockville Run	At confluence with South Branch Codorus Creek	4.06	512	*	910	1,127	*	1,870

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Rockville Run	Approximately 300 feet upstream of Private Drive (Limit of Detailed Study)	3.63	458	*	810	1,002	*	1,630
Scott Creek	At the confluence with Muddy Creek	5.28	965	*	1,900	2,455	*	4,000
Scott Creek	Upstream of the confluence of Tributary C	2.58	590	*	1,205	1,575	*	2,600
Shiloh Tributary	Immediately upstream of the confluence with Little Conewago Creek	1.67	767	*	1,255	1,495	*	2,146
Slagle Run	At the confluence	2.687	611	*	974	1,154	*	1,645
South Branch Codorus Creek	Approximately 8,300 feet downstream of Seitzville Road	44.4	5505	*	9538	11623	*	17554
South Branch Codorus Creek	Approximately 2,900 feet downstream of Seitzville Road	43.2	5,408	*	9,376	11,428	*	17,267
South Branch Codorus Creek	Approximately 650 feet upstream of Granary Road	40.9	5,221	*	9,058	11,043	*	16,696
South Branch Codorus Creek	Approximately 300 feet downstream of Larue Road	39.8	5,134	*	8,910	10,865	*	16,431

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
South Branch Codorus Creek	Approximately 1,050 feet downstream of Springfield Lane	37.5	4,940	*	8,582	10,468	*	15,839
South Branch Codorus Creek	Approximately 800 feet upstream of Springfield Lane	33.1	4,563	*	7,940	9,690	*	14,678
South Branch Codorus Creek	Approximately 800 feet downstream of Seven Valleys Road	18.1	3,118	*	5,461	6,677	*	10,154
South Branch Codorus Creek	Approximately 200 feet downstream of Seven Valleys Road	16.3	2,918	*	5,115	6,256	*	9,518
South Branch Codorus Creek	Approximately 100 feet upstream from Main Street	12.3	2,439	*	4,299	5,267	*	8,044
South Branch Codorus Creek	Approximately 300 feet upstream of Baltimore Street	8.2	1,878	*	3,330	4,088	*	6,268
South Branch Codorus Creek	At Glen Brook Road	4	1,208	*	2,137	2,620	*	4,003
South Branch Codorus Creek	Approximately 50 feet downstream of Railroad	3	1,024	*	1,801	2,203	*	3,351

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
South Branch Codorus Creek Tributary A	At the confluence with South Branch Codorus Creek	3.55	720	*	1,485	1,955	*	3,250
South Branch Codorus Creek Tributary B	At confluence with South Branch Codorus Creek	1.0	105	*	221	291	*	500
South Branch Codorus Creek Tributary B	At Heindel Road	0.6	62	*	138	185	*	320
South Branch Conewago Creek	At York – Adams County Line	14.2	1,600	*	2,978	3,742	*	6,800
South Branch Muddy Creek	At Sheppard-Myers Dam	5.6	707	*	1,272	1,582	*	2,600
Stony Run No. 1	Immediately upstream of the confluence with Yellow Breeches Creek	2.55	575	*	1,008	1,227	*	1,848
Stony Run No. 1	Approximately 950 feet. downstream of Andersontown Road	2.53	571	*	1000	1218	*	1833
Stony Run No. 1	Immediately upstream of Andersontown Road	2.35	533	*	933	1137	*	1712
Stony Run No. 1	Approximately 1300 feet. upstream of Andersontown Road	1.43	346	*	610	744	*	1125

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Stony Run No. 1	Approximately 550 feet. downstream of S Wharf Road	1.33	323	*	570	695	*	1050
Stony Run No. 1	Immediately upstream of S Wharf Road	1.31	318	*	561	685	*	1035
Stony Run No. 2	Immediately upstream of the confluence with Yellow Breeches Creek	12.99	1,746	*	2,876	3,430	*	4,947
Stony Run No. 2	Immediately upstream of N Grantham Road	12.76	1,715	*	2,826	3,369	*	4,,859
Stony Run No. 2	Approximately 500 feet. upstream of N Grantham Road	12.61	1,694	*	2,791	3,328	*	4,799
Stony Run No. 2	Approximately 3800 feet. downstream of Siddonsburg Road	12.08	1,621	*	2,670	3,182	*	4,587
Stony Run No. 2	Immediately upstream of Siddonsburg Road	11.8	1,584	*	2,607	3,107	*	4,478
Stony Run No. 2	Approximately 2000 feet. upstream of Siddonsburg Road	11.52	1,553	*	2,558	3,049	*	4,396
Stony Run No. 2 Trib 2	Immediately upstream of the confluence with Stony Run No. 2	1.31	301	*	525	639	*	959

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Stony Run No. 2 Trib 2	Approximately 1500 feet. upstream of Warrington Road	1.00	247	*	435	530	*	801
Susquehanna River	At the confluence of Muddy Creek	26,880	445,000	*	670,000	760,000	*	1,170,000
Susquehanna River	At the confluence of Conestoga Creek	26,045	440,000	*	650,000	745,000	*	1,150,000
Susquehanna River	At the confluence of Codorus Creek	25,545	425,000	*	630,000	730,000	*	1,120,000
Susquehanna River	Upstream of the confluence of Conewago Creek	25,000	420,000	*	615,000	725,000	*	1,110,000
Susquehanna River	At the York – Cumberland County boundary	24,100	410,000	*	600,000	700,000	*	1,100,000
Tributary No. 2 To Hartman Run	At the confluence with Hartman Run	1.69	660	*	1,550	2,160	*	3,840
Tyler Run	At Country Club Road	3.7	1,280	*	2,115	2,530	*	3,664
Tyler Run	At Business Interstate 83	2.6	1,009	*	1,678	2,012	*	2,928
Mill Creek Tributary 9	At Camp Betty Washington Road	0.26	*	*	*	208	*	*

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Mill Creek Tributary 9	Approximately 0.34 mile upstream of Camp Betty Washington Road	0.12	*	*	*	119	*	*
Mill Creek Tributary 9	Approximately 0.59 mile upstream of Camp Betty Washington Road	0.06	*	*	*	59	*	*
Unnamed Tributary To Fox Run Tributary A	Approximately 0.44 mile upstream of Fox Creek Tributary A	0.81	*	*	*	1,239	*	*
West Branch Codorus Creek	At Lake Marburg	4.4	561	*	1,000	1,240	*	2,000
West Branch Codorus Creek	At Musselman Road	2.4	309	*	539	663	*	1,060
West Branch Of Fishers Run	At confluence with Stony Run No. 2	1.74	228	*	504	680	*	1,298
Wyntre Brook	Upstream of Wyntre Brook Drive	0.29	*	*	*	315	*	*
Yellow Breeches Creek	At the confluence of the Susquehanna River	221.89	6,669	*	12,389	15,660	*	26,259
Yellow Breeches Creek	Immediately upstream of Old York Road	221.33	6,634	*	12,336	15,599	*	26,179

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Yellow Breeches Creek	Immediately upstream of the confluence of Yellow Breeches Creek Tributary 1	218.42	6,449	*	12,064	15,291	*	25,796
Yellow Breeches Creek	Immediately upstream of Poplar Road	218.24	6,437	*	12,045	15,269	*	25,766
Yellow Breeches Creek	Immediately downstream of Beacon Hill Boulevard	217.93	6,416	*	12,012	15,231	*	25,715
Yellow Breeches Creek	Immediately upstream of Interstate 83	217.77	6,405	*	11,995	15,212	*	25,689
Yellow Breeches Creek	Approximately 1800 feet. upstream of Interstate 83	217	6,352	*	11,915	15,118	*	25,565
Yellow Breeches Creek	Immediately downstream of Greenlane Drive	215.43	6,285	*	11,815	15,005	*	25,426
Yellow Breeches Creek	Approximately 2500 feet. upstream of Greenlane Drive	200.28	6,340	*	11,514	14,422	*	23,704
Yellow Breeches Creek	Approximately 4500 feet. downstream of Spanglers Mill Road	199.72	6,329	*	11,482	14,376	*	23,606

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Yellow Breeches Creek	Approximately 1500 feet. downstream of Spanglers Mill Road	199.49	6,326	*	11,471	14,359	*	23,568
Yellow Breeches Creek	Approximately 2500 feet. upstream of Spanglers Mill Road	198.67	6,303	*	11,414	14,280	*	23,408
Yellow Breeches Creek	Immediately upstream of the confluence of Yellow Breeches Creek Tributary 7	197	6,261	*	11,309	14,132	*	23,106
Yellow Breeches Creek	Approximately 1200 feet. downstream of Limekiln Road	196.59	6,249	*	11,280	14,093	*	23,028
Yellow Breeches Creek	Approximately 200 feet. upstream of Limekiln Road	196.24	6,238	*	11,255	14,058	*	22,958
Yellow Breeches Creek	Approximately 4500 feet. downstream of Interstate 76 (Pennsylvania Turnpike)	195.94	6,230	*	11,235	14,029	*	22,901
Yellow Breeches Creek	Approximately 3600 feet. downstream of Interstate 76 (Pennsylvania Turnpike)	195.77	6,225	*	11,222	14,012	*	22,867

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Yellow Breeches Creek	Immediately downstream of Interstate 76 (Pennsylvania Turnpike)	195.55	6,218	*	11,206	13,989	*	22,821
Yellow Breeches Creek	Approximately 200 feet. downstream of Sheepford Road	194.83	6,196	*	11,154	13,918	*	22,679
Yellow Breeches Creek	Approximately 1250 feet. upstream of Sheepford Road	193.92	6,170	*	11,091	13,831	*	22,504
Yellow Breeches Creek	Approximately 2500 feet. downstream of Old Forge Road	190.57	6,074	*	10,863	13,516	*	21,879
Yellow Breeches Creek	Approximately 1200 feet. upstream of Old Forge Road	189.95	6,054	*	10,817	13,453	*	21,757
Yellow Breeches Creek	Immediately upstream of Cedars Road	187.98	6,001	*	10,692	13,281	*	21,414
Yellow Breeches Creek	Approximately 700 feet. upstream of Cedars Road	187.44	5,984	*	10,653	13,228	*	21,311
Yellow Breeches Creek	Approximately 1500 feet. upstream of Cedars Road	187.32	5,981	*	10,645	13,216	*	21,288

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Yellow Breeches Creek	Approximately 700 feet. downstream of Andersontown Road	185.59	5,929	*	10,525	13,053	*	20,970
Yellow Breeches Creek	Immediately upstream of Andersontown Road	182.8	5,846	*	10,337	12,796	*	20,471
Yellow Breeches Creek	Approximately 300 feet. downstream of Wharf Road	182	5,820	*	10,279	12,718	*	20,321
Yellow Breeches Creek	Approximately 3700 feet. upstream of Wharf Road	181.54	5,806	*	10,247	12,675		20,237
Yellow Breeches Creek	Approximately 500 feet. downstream of Private Drive	180.31	5,766	*	10,159	12,556	*	20,008
Yellow Breeches Creek	Immediately downstream of Private Drive and immediately upstream of the confluence of Pippins Run	177.51	5,683	*	9,975	12,306	*	19,529
Yellow Breeches Creek	Approximately 1600 feet. downstream of N York Road	177.18	5,672	*	9,950	12,273	*	19,467
Yellow Breeches Creek	Approximately 1100 feet. upstream of N York Road	176.45	5,648	*	9,899	12,204	*	19,336

*Not calculated for this FIS Project

Table 10: Summary of Discharges (continued)

			Peak Discharge (cfs)					
Flooding Source	Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Yellow Breeches Creek	Approximately 2300 feet. downstream of Gilbert Road	174.9	5,599	*	9,792	12,060	*	19,063
Yellow Breeches Creek	Approximately 150 feet. upstream of Gilbert Road	161.77	5,218	*	8,984	10,982	*	17,040
Yellow Breeches Creek	Approximately 1800 feet. upstream of Gilbert Road	161.65	5,213	*	8,974	10,970	*	17,017
Yellow Breeches Creek	Approximately 750 feet. downstream of Grantham Road	157.13	5,171	*	8,824	10,745	*	16,514
Yellow Breeches Creek	Approximately 600 feet. upstream of Old US Route 15 (Gettysburg Pike)	155.71	5,123	*	8,728	10,620	*	16,290
Yellow Breeches Creek	Approximately 150 feet. downstream of Williams Grove Road	154.29	5,100	*	8,671	10,541	*	16,132

*Not calculated for this FIS Project

Figure 5: Frequency Discharge-Drainage Area Curves

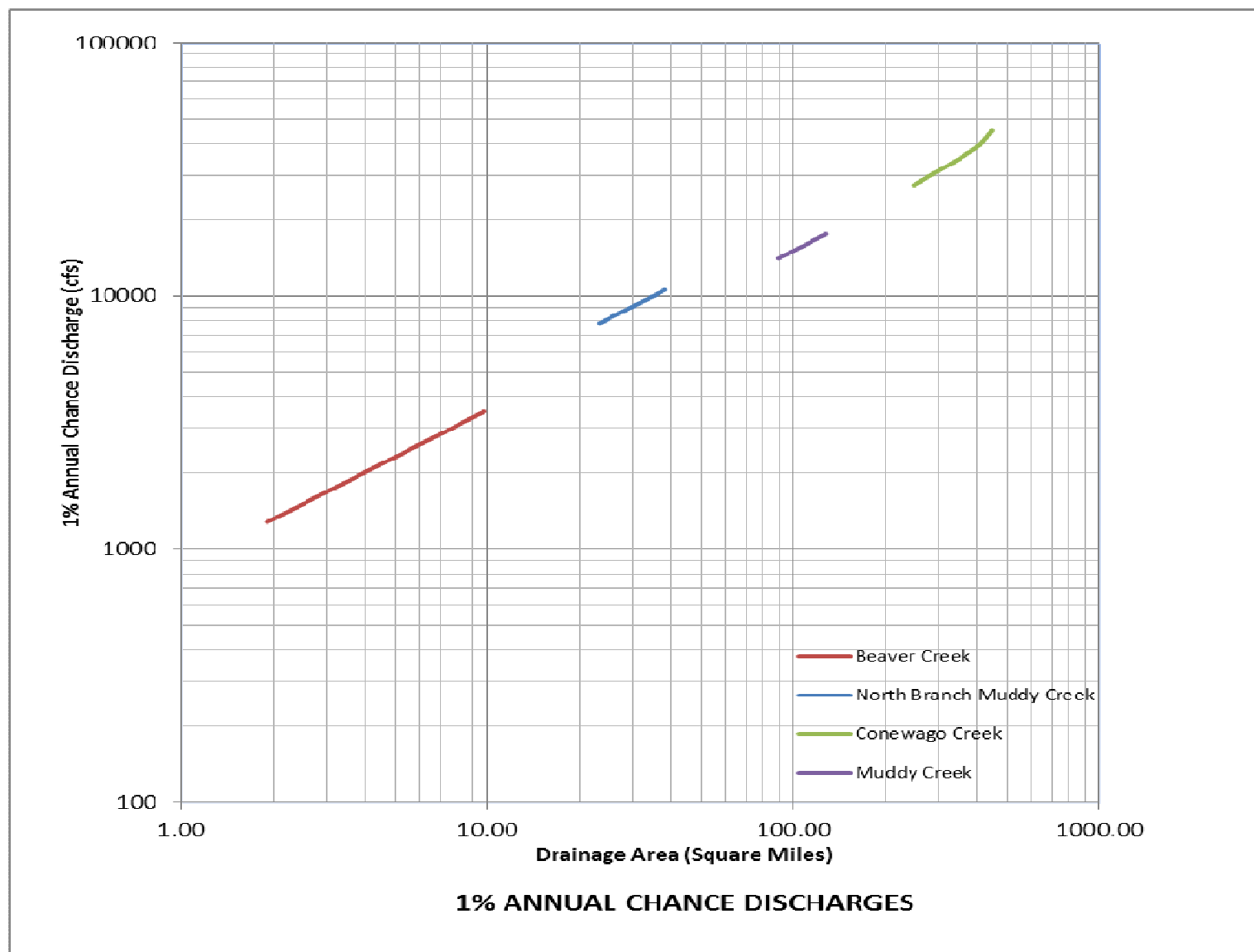


Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (feet NAVD88)				
		10-Percent Annual Chance	4-Percent Annual Chance	2-percent Annual Chance	1-Percent Annual Chance	0.2-Percent Annual Chance
Lake Marburg	Northern edge of the Township of Manheim	622.45	*	622.55	622.65	622.75

*Not calculated for this FIS 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
West Conewago Creek	01573825	USGS	East Berlin	218	2003	2012
Conewago Creek	01574000	USGS	Manchester	510	1929	2010

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. BFEs 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 (Chow, V.T., 1988). 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		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Buffalo Valley Run	Confluence with South Branch Codorus Creek	Approximately 370 feet upstream of Buffalo Valley Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1 (USACE, 2010)	February 2013	AE w/ Floodway	
Codorus Creek Tributary A	Confluence with Codorus Creek	Approximately 2,900 feet upstream of Church Road/State Route 238	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Codorus Creek Tributary B	Confluence with Codorus Creek	Approximately 80 feet upstream of Susquehanna Trail	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
East Branch Codorus Creek	Confluence with South Branch Codorus Creek	Approximately 60 feet upstream of Seaks Run Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Fishing Creek No. 3	Confluence with Susquehanna River	Approximately 700 feet upstream of Pines Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Kreutz Creek	Approximately 2,700 feet downstream of East Prospect Road	Approximately 200 feet upstream of Ruppert Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Little Conewago Creek	Confluence with Conewago Creek	Approximately 100 feet upstream of Roths Church Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Little Conewago Creek Tributary 16	Confluence with Little Conewago Creek	Approximately 170 feet upstream of the Greenbriar Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Little Conewago Creek Tributary 24	Confluence with Little Conewago Creek	Approximately 4,200 feet upstream of the confluence with Little Conewago Creek	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
North Branch Muddy Creek	Approximately 500 feet downstream of confluence with North Branch Muddy Creek Tributary 1	Approximately 800 feet upstream of the Grim Hollow Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Paradise Creek	Approximately 950 feet downstream of Lefever Road	Approximately 350 feet upstream of Shady Dell Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Plum Creek	At York-Adams boundary	Approximately 150 feet upstream of the confluence with Plum Creek Tributary 1	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Shiloh Tributary	Confluence with Little Conewago Creek	Approximately 1,300 feet upstream of Loman Avenue	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Slagle Run	Approximately 170 feet downstream of Carlisle Street	Approximately 70 feet upstream of Flickinger Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
South Branch Codorus Creek	Confluence with Codorus Creek	Approximately 500 feet upstream of West Bricker Court	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Stony Run No. 1	Confluence with Yellow Breeches Creek	Approximately 350 feet upstream of South Wharf Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Stony Run No. 2	Confluence with Yellow Breeches Creek	Approximately 1,600 feet upstream of the confluence with Stony Run No. 2 Trib 2	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses (continued)

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Tyler Run	Approximately 620 feet downstream of South George Street	Approximately 1,280 feet upstream of Kirch Road	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	
Yellow Breeches Creek	Confluence with Susquehanna River	Confluence with Dogwood run	2008Regression EQ, GeoRAMPP 5.0	HEC-RAS 4.1	February 2013	AE w/ Floodway	

Table 14: Roughness Coefficients

Flooding Source	Channel “n”	Overbank “n”
Bald Eagle Creek	0.035	0.030 – 0.080
Barshinger Creek	0.040	0.070 – 0.110
Barshinger Creek Tributary 2	0.040 – 0.050	0.070 – 0.140
Beaver Creek	0.030	0.035 – 0.060
Beaver Creek Tributary A	0.030	0.040 – 0.100
Bennett Run	0.030 – 0.045	0.050 – 0.082
Bermudian Creek	0.035	0.060
Buffalo Valley Run	0.033 – 0.045	0.050 – 0.12
Cabin Creek	0.040 – 0.045	0.055 – 0.060
Cabin Creek Tributary 2	0.035 – 0.040	0.055 – 0.065
Cabin Creek Tributary 5	0.040	0.050
Canadochly Creek	0.050 – 0.060	0.065 – 0.070
Carter Creek	0.024 – 0.035	0.024 – 0.035
Centerville Creek	0.033 – 0.045	0.040 – 0.060
Centerville Creek Tributary	0.050	0.070
Cherry Run	0.050 – 0.055	0.065 – 0.070
Codorus Creek	0.024 – 0.055	0.030 – 0.135
Codorus Creek Tributary A	0.035	0.05 - 0.20
Codorus Creek Tributary A1	0.024 – 0.035	0.040 – 0.080
Codorus Creek Tributary B	0.032 – 0.04	0.05 – 0.20
Codorus Creek Tributary C	0.035	0.050 – 0.075
Codorus Creek Tributary D	0.040 – 0.045	0.050 – 0.070
Codorus Creek Tributary E	0.040	0.055 – 0.060
Conewago Creek	0.022 – 0.095	0.025 – 0.150
Conewago Creek Flood Channel	*	*
Conewago Creek Tributary 43	0.045	0.055 – 0.080
Deer Creek	0.035	0.030 – 0.080
Deer Creek Tributary 6	0.030 – 0.035	0.030 – 0.070
Dogwood Run	0.035 – 0.055	0.060 – 0.086
East Branch Codorus Creek	0.033 – 0.05	0.08 – 0.15
Ebaughs Creek	0.035	0.025 – 0.090

* Not calculated for this FIS project

Table 14: Roughness Coefficients (continued)

Flooding Source	Channel “n”	Overbank “n”
Ebaughs Creek Tributary 1	0.035	0.035 – 0.060
Fishers Run	0.040	0.090
Fishing Creek No. 1	0.035	0.060 – 0.080
Fishing Creek No. 2	0.032 – 0.048	0.038 – 0.080
Fishing Creek No. 3	0.037 – 0.05	0.08 – 0.15
Fox Run	0.025 – 0.090	0.025 – 0.130
Fox Run Tributary A	0.025 – 0.090	0.025 – 0.130
Fox Run Tributary A1	0.025 – 0.090	0.025 – 0.130
Fox Run Tributary 4	0.025 – 0.090	0.025 – 0.130
Furnace Creek	0.045 – 0.055	0.060 – 0.075
Gitts Run	0.030 – 0.090	0.030 – 0.040
Hartman Run	0.041 – 0.047	0.020 – 0.197
Honey Run	0.025 – 0.090	0.025 – 0.130
Inners Creek	0.040	0.070 – 0.110
Kreutz Creek	0.023 – 0.06	0.05 – 0.13
Kreutz Creek Tributary D	0.049 – 0.070	0.039 – 0.099
Kreutz Creek Tributary E	0.041 – 0.050	0.044 – 0.392
Kreutz Creek Tributary E1	0.041 – 0.045	0.027 – 2.000
Kreutz Creek Tributary E2	0.048 – 0.054	0.045 – 0.122
Little Conewago Creek	0.016 – 0.10	0.03 – 0.20
Little Conewago Creek Tributary 16	0.035 – 0.045	0.05 – 0.13
Little Conewago Creek Tributary 24	0.03 – 0.045	0.05 – 0.12
Michael Run	0.035	0.040 – 0.080
Mill Branch	0.024 – 0.040	0.035 – 0.090
Mill Creek	0.039 – 0.055	0.034 – 0.160
Mill Creek Tributary A	0.040	0.040 – 0.110
Mill Creek Tributary A1	0.040 – 0.045	0.070 – 0.110
Muddy Creek	0.035	0.050 – 0.080
Neill Run	0.024 – 0.035	0.040 – 0.080
North Branch Bermudian Creek	0.040 – 0.065	0.040 – 0.085

Table 14: Roughness Coefficients (continued)

Flooding Source	Channel “n”	Overbank “n”
North Branch Bermudian Creek Tributary 8	0.045 – 0.055	0.060 – 0.075
North Branch Bermudian Creek Tributary 9	0.035 – 0.065	0.045 – 0.095
North Branch Bermudian Creek Tributary 15	0.050 – 0.055	0.055 – 0.080
North Branch Bermudian Creek Tributary 17	0.045 – 0.055	0.060 – 0.070
North Branch Muddy Creek	0.033 – 0.045	0.05 – 0.13
North Branch Muddy Creek Tributary 3	0.024 – 0.035	0.080
North Branch Muddy Creek Tributary 11	0.035	0.040
North Branch Muddy Creek Tributary 12	0.035	0.040 – 0.080
North Branch Muddy Creek Tributary 13	0.032 – 0.039	0.038 – 0.050
Oil Creek	0.011 – 0.035	0.040 – 0.080
Otter Creek	0.035	0.055 – 0.085
Paradise Creek	0.04	0.09 – 0.12
Pierceville Run	0.033 – 0.050	0.045 – 0.070
Pine Run	0.024 – 0.035	0.035 – 0.080
Pippins Run	0.042	0.100
Plum Creek	0.03 – 0.045	0.05 – 0.15
Plum Creek Tributary 1	0.015 – 0.035	0.045 – 0.075
Rockville Run	0.045 – 0.050	0.065
Scott Creek	0.035	0.050 – 0.080
Shiloh Tributary	0.04 – 0.05	0.05 - 0.13
Slagle Run	0.032 – 0.035	0.05 - 0.20
South Branch Codorus Creek	0.02 – 0.045	0.05 - 0.20
South Branch Codorus Creek Tributary A	0.035	0.035 – 0.060
South Branch Codorus Creek Tributary B	0.040 – 0.050	0.045 – 0.065
South Branch Conewago Creek	0.040 – 0.055	0.060 – 0.087
South Branch Muddy Creek	0.035	0.030 – 0.070

Table 14: Roughness Coefficients (continued)

Flooding Source	Channel “n”	Overbank “n”
Stony Run No. 1	0.05 – 0.06	0.05 – 0.13
Stony Run No. 2	0.05 – 0.06	0.05 – 0.13
Stony Run No. 2 Trib 2	0.038 – 0.045	0.05 – 0.15
Susquehanna River	0.012 – 0.083	0.029 – 10.0
Tributary No. 2 to Hartman Run	0.047 – 0.053	0.044 – 0.114
Tyler Run	0.04 – 0.048	0.05 – 0.20
Unnamed Tributary To Fox Run Tributary A	0.05	0.07
West Branch Codorus Creek	0.045 – 0.05	0.055 – 0.07
West Branch Fishers Run	0.035	0.045
Wyntre Brook	*	*
Yellow Breeches Creek	0.032 – 0.065	0.04 – 0.20

* Not calculated for this FIS project

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 6: 1-percent-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 7: Transect Location Map

[Not Applicable to this FIS 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 FIS Project]

Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this FIS 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 NGVD29. With the completion of the 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, 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

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 the NGS Web site at www.ngs.noaa.gov.

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

Table 20: Countywide Vertical Datum Conversion

Quadrangle Name	Quadrangle Corner	Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
Abbottstown	SE	39.875	-76.875	-0.75
Airville	SE	39.75	-76.375	-0.81
Carlisle	SE	40.125	-77.125	-0.66
Columbia West	SE	40.00	-76.50	-0.88
Dillsburg	SE	40.00	-77.00	-0.69
Dover	SE	40.00	-76.75	-0.83
Glen Rock	SE	39.75	-76.625	-0.71
Hampton	SE	39.875	-77.00	-0.69
Hanover	SE	39.75	-76.875	-0.69
Harrisburg West	SE	40.25	-76.875	-0.70
Holtwood	SE	39.75	-76.25	-0.85
Lemoyne	SE	40.125	-76.875	-0.69
McSherrystown	SE	39.75	-77.00	-0.66
Mechanicsburg	SE	40.125	-77.00	-0.66
Red Lion	SE	39.875	-76.50	-0.80
Safe Harbor	SE	39.875	-76.375	-0.86
Seven Valleys	SE	39.75	-76.75	-0.70
Steelton	SE	40.125	-76.75	-0.76
Stewartstown	SE	39.75	-76.50	-0.77
Wellsville	SE	40.00	-76.875	-0.74
West York	SE	39.875	-76.75	-0.80
York	SE	39.875	-76.625	-0.76
York Haven	SE	40.00	-76.625	-0.83
Average Conversion from NGVD29 to NAVD88 = -0.75 feet				

Table 21: Stream-Based Vertical Datum Conversion

[Not Applicable to this FIS 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 Mapping Partners*, Appendix L.

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
7.5- Minute Series Topographic Maps	USGS	1989	1:12,000	USGS topographic quadrangle maps that cover the study area
Digital Ortho Imagery for York County	Pennsylvania Department of Conservation and Natural Resources, PAMAP	1989	1:12,000	Aerial photography
Digital Format of Base Transportation and Political boundaries	York County Planning Commission	2011	1:12,000	Municipal and county boundaries

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 percent and 0.2 percent annual chance floodplain boundaries are close

together, only the 1 percent 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 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
York County (All Jurisdictions)	All within HUC-8 02050306 (except Codorus Creek)	LiDAR	1:4800	2 feet	PAMAP/BAE 2008
Boroughs of North York and Spring Grove; and City of York; and Townships of East Manchester, Heidelberg, Hellam, Jackson, North Codorus, Spring Garden, Springettsbury, and West Manchester	Codorus Creek	USGS	1:4800 and 1:2400	20 feet and 5 feet	FIS (West Manchester, East Manchester, Hellam, 1980)

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

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BALD EAGLE CREEK								
A	460 ¹	83	378	9.8	300.3	296.7 ³	297.7	1.0
B	1,055 ¹	231	1,682	2.2	304.9	304.9	304.9	0.0
C	2,235 ¹	102	423	8.8	310.7	310.7	311.7	1.0
D	2,960 ¹	260	883	4.2	316.0	316.0	316.9	0.9
E	3,805 ¹	53	379	9.8	319.5	319.5	319.8	0.3
F	4,605 ¹	117	452	8.2	323.8	323.8	324.5	0.7
G	5,645 ¹	215	648	5.7	331.5	331.5	331.8	0.3
H	6,574 ¹	200	1,100	3.4	339.8	339.8	339.8	0.0
I	7,174 ¹	117	437	8.5	341.5	341.5	341.8	0.3
J	7,744 ¹	96	465	8.0	345.3	345.3	345.9	0.6
K	9,124 ¹	213	632	5.9	355.9	355.9	356.6	0.7
L	9,844 ¹	294	1,095	3.4	360.3	360.3	361.3	1.0
M	10,509 ¹	64	289	9.0	366.0	366.0	366.0	0.0
N	10,919 ¹	47	213	12.2	368.5	368.5	368.5	0.0
O	11,599 ¹	41	228	11.4	375.9	375.9	375.9	0.0
P	12,074 ¹	31	191	13.6	380.0	380.0	380.0	0.0
BARSHINGER CREEK								
A	360 ²	124	267	5.2	518.3	517.8 ⁴	518.8	1.0
B	580 ²	127	336	4.2	519.6	519.6	520.5	0.9
C	745 ²	103	408	3.4	520.4	520.4	521.3	0.9

¹Feet above confluence with Muddy Creek

²Feet above confluence with East Branch Codorus Creek

³Elevation computed without consideration of backwater effects from Muddy Creek

⁴Elevation computed without consideration of backwater effects from East Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BALD EAGLE CREEK - BARSHINGER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BARSHINGER CREEK (continued)								
D	1,385	99	242	5.8	526.0	526.0	526.0	0.0
E	1,745	102	336	4.2	528.9	528.9	529.3	0.4
F	2,585	127	317	4.4	535.3	535.3	536.1	0.8
G	3,165	120	370	3.8	539.2	539.2	540.0	0.8
H	3,855	89	231	6.1	543.7	543.7	543.7	0.0
I	4,655	59	154	9.1	552.4	552.4	552.6	0.2
J	4,838	45	196	7.1	554.9	554.9	554.9	0.0
K	5,478	39	160	8.7	559.0	559.0	559.7	0.7
L	6,168	35	158	8.9	565.6	565.6	566.1	0.5
M	6,588	33	146	9.6	570.3	570.3	570.4	0.1
N	7,218	40	164	8.5	576.5	576.5	577.1	0.6
O	7,698	58	186	7.5	582.4	582.4	582.5	0.1
P	7,978	80	316	4.4	585.2	585.2	586.0	0.8
Q	8,518	80	171	8.2	591.9	591.9	592.0	0.1
R	9,028	90	366	3.8	596.8	596.8	596.9	0.1
S	9,230	110	551	2.5	599.8	599.8	600.2	0.4
T	9,540	100	306	4.6	600.5	600.5	600.9	0.4
U	9,645	100	270	5.2	601.3	601.3	601.6	0.3
V	9,807	100	312	4.5	603.5	603.5	603.5	0.0
W	10,657	73	224	6.2	607.9	607.9	608.3	0.4

¹Feet above confluence with East Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BARSHINGER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BARSHINGER CREEK (continued)								
X	11,167 ¹	70	205	6.8	613.2	613.2	613.4	0.2
Y	11,887 ¹	70	225	6.2	621.5	621.5	621.9	0.4
Z	12,377 ¹	70	179	7.8	627.2	627.2	627.2	0.0
AA	12,762 ¹	70	230	6.1	631.1	631.1	631.8	0.7
AB	12,927 ¹	70	464	3.0	635.6	635.6	636.2	0.6
AC	13,587 ¹	70	197	7.1	639.7	639.7	639.8	0.1
AD	14,137 ¹	70	185	7.5	647.4	647.4	647.4	0.0
AE	14,877 ¹	70	144	9.7	657.3	657.3	657.3	0.0
AF	15,032 ¹	60	279	5.0	661.7	661.7	662.4	0.7
AG	15,362 ¹	60	164	8.5	666.7	666.7	666.7	0.0
AH	15,577 ¹	70	197	7.1	670.9	670.9	670.9	0.0
AI	15,764 ¹	70	428	3.3	679.3	679.3	679.9	0.6
BARSHINGER CREEK TRIBUTARY 2								
A	319 ²	28	119	5.1	591.3	591.3	591.3	0.0
B	679 ²	30	83	7.4	598.7	598.7	599.7	1.0
C	1,109 ²	14	67	9.1	607.8	607.8	608.0	0.2
D	1,224 ²	15	67	9.2	609.3	609.3	609.6	0.3

¹Feet above confluence with East Branch Codorus Creek

²Feet above confluence with Barshinger Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BARSHINGER CREEK - BARSHINGER CREEK TRIBUTARY 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BARSHINGER CREEK TRIBUTARY 2 (continued)								
E	1,472 ¹	26	147	4.2	615.7	615.7	615.8	0.1
F	1,902 ¹	26	66	9.3	621.1	621.1	621.1	0.0
G	2,287 ¹	31	61	9.9	630.5	630.5	630.5	0.0
H	2,867 ¹	25	66	9.3	642.5	642.5	642.5	0.0
I	3,367 ¹	26	61	10.0	653.6	653.6	654.0	0.4
J	3,531 ¹	20	105	5.8	660.1	660.1	660.7	0.6
BEAVER CREEK								
A	290 ²	85 / 118 ³	944	5.3	399.9	395.3 ⁴	396.3	1.0
B	1,110 ²	42 / 75 ³	799	6.3	400.2	395.8 ⁴	396.7	0.8
C	1,870 ²	41 / 92 ³	669	7.5	400.4	396.5 ⁴	397.4	0.9
D	2,785 ²	111 / 169 ³	528	9.5	400.4	400.1 ⁴	400.2	0.1
E	3,600 ²	69 / 170 ³	695	7.2	404.3	404.3	404.5	0.2
F	4,420 ²	83 / 106 ³	645	7.8	405.9	405.9	406.7	0.8
G	5,015 ²	78 / 103 ³	483	10.4	407.8	407.8	407.8	0.0
H	5,660 ²	14 / 155 ³	732	6.9	410.5	410.5	411.1	0.6
I	6,375 ²	72 / 132 ³	833	6.0	412.2	412.2	413.2	1.0
J	6,955 ²	28 / 51 ³	340	14.8	413.3	413.3	413.3	0.0

¹Feet above confluence with Barshinger Creek

²Feet above confluence with Conewago Creek

³Floodway width within York County / Total floodway width

⁴Elevation computed without consideration of backwater effects from Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BARSHINGER CREEK TRIBUTARY 2 - BEAVER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BEAVER CREEK (continued)								
K	7,725	100 / 179	1,216	4.1	416.5	416.5	417.5	1.0
L	8,570	94 / 127	717	7.0	417.3	417.3	418.0	0.7
M	9,230	23 / 66	511	6.8	419.5	419.5	420.0	0.5
N	9,795	124 / 155	602	5.8	420.3	420.3	421.0	0.7
O	10,380	49 / 98	368	9.5	423.3	423.3	423.3	0.0
P	11,200	32 / 140	626	5.6	424.4	424.4	425.3	0.9
Q	12,290	37 / 75	389	9.0	427.1	427.1	427.7	0.6
R	13,005	44 / 95	394	8.9	430.1	430.1	430.5	0.4
S	13,755	18 / 104	463	7.6	433.0	433.0	433.8	0.8
T	14,280	43 / 127	638	4.4	437.2	437.2	438.0	0.8
U	14,955	65 / 90	286	9.8	439.0	439.0	439.0	0.0
V	15,805	101 / 123	510	5.5	442.1	442.1	443.1	1.0
W	16,570	138 / 154	664	4.2	447.2	447.2	448.2	1.0
X	17,190	82 / 133	395	7.1	449.3	449.3	449.6	0.3
Y	17,580	76 / 154	467	6.0	450.8	450.8	451.7	0.9
Z	18,230	45 / 75	282	9.9	454.4	454.4	454.6	0.2
AA	18,815	105 / 127	573	4.9	457.0	457.0	457.8	0.8
AB	19,295	22 / 156	618	4.5	461.9	461.9	462.2	0.3
AC	20,075	128 / 148	356	6.9	464.2	464.2	464.6	0.4
AD	20,815	85 / 124	335	7.4	470.8	470.8	470.8	0.0

¹Feet above confluence with Conewago Creek

²Floodway width within York County / Total floodway width

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY YORK COUNTY, PA (ALL JURISDICTIONS)	FLOODWAY DATA
		BEAVER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BEAVER CREEK (continued)								
AE	21,695	120 / 1442	316	7.8	477.2	477.2	478.0	0.8
AF	22,325	24 / 148	403	6.1	480.3	480.3	481.1	0.8
AG	23,094	138 / 162	444	5.5	484.5	484.5	485.2	0.7
AH	23,880	69 / 146	663	3.7	489.2	489.2	490.0	0.8
AI	24,378	26 / 155	452	5.4	491.3	491.3	492.3	1.0
AJ	24,757	37 / 82	552	4.5	495.6	495.6	495.8	0.2
AK	25,537	35 / 46	144	8.9	499.3	499.3	499.5	0.2
AL	26,377	39 / 56	152	8.4	507.6	507.6	507.8	0.2
AM	27,147	69 / 117	359	3.6	519.4	519.4	520.1	0.7
AN	27,610	23 / 70	213	6.0	520.4	520.4	520.9	0.5
AO	28,340	44 / 100	254	5.0	527.1	527.1	527.2	0.1
AP	29,100	57 / 140	340	3.8	536.2	536.2	536.7	0.5
AQ	29,890	118 / 240	332	3.9	545.4	545.4	545.5	0.1
AR	30,220	58 / 170	342	3.7	550.9	550.9	550.9	0.0
AS	30,775	45 / 91	244	4.0	555.9	555.9	556.2	0.3
AT	31,335	41 / 210	357	2.7	560.5	560.5	561.0	0.5
AU	32,090	204 / 290	431	2.3	569.2	569.2	569.6	0.4
AV	32,910	38 / 115	235	4.1	582.6	582.6	582.9	0.3
AW	33,625	78 / 95	178	5.5	595.8	595.8	596.8	1.0
AX	33,882	0 / 80	121	7.0	604.9	604.9	604.9	0.0

¹Feet above confluence with Conewago Creek

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BEAVER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BEAVER CREEK TRIBUTARY A								
A	200	66	233	6.6	434.0	434.0	434.9	0.9
B	895	67	266	5.8	437.2	437.2	438.0	0.8
C	1,885	31	137	11.3	444.1	444.1	444.6	0.5
D	2,720	35	181	8.6	449.9	449.9	450.6	0.7
E	3,380	85	514	3.0	457.5	457.5	457.5	0.0
F	4,005	22	119	13.0	460.6	460.6	460.6	0.0
G	4,290	41	145	10.7	466.4	466.4	466.6	0.2
H	5,120	59	226	6.9	468.6	468.6	468.8	0.2
I	5,945	46	185	8.4	475.7	475.7	476.1	0.4
J	6,795	60	421	3.7	489.4	489.4	490.2	0.8
K	7,680	42	145	10.7	494.0	494.0	494.0	0.0
L	8,710	45	462	3.4	518.2	518.2	518.2	0.0
M	9,370	74	209	7.4	518.9	518.9	519.7	0.8
N	10,585	32	134	11.5	534.3	534.3	535.3	1.0
O	11,245	86	539	2.9	544.0	544.0	544.9	0.9
P	11,960	44	169	9.2	550.4	550.4	551.1	0.7
Q	12,620	58	199	7.8	558.3	558.3	559.2	0.9
R	13,560	31	148	10.5	575.6	575.6	576.4	0.8
S	14,460	59	228	6.8	603.8	603.8	604.6	0.8

¹Feet above confluence with Beaver Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BEAVER CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BENNETT RUN								
A	30,385 ¹	55	235	6.6	419.4	419.4	420.0	0.6
B	30,700 ¹	110	700	2.2	422.0	422.0	422.2	0.2
C	30,840 ¹	98	514	3.0	422.0	422.0	422.2	0.2
D	31,430 ¹	120	640	2.4	422.4	422.4	422.6	0.2
BERMUDIAN CREEK								
A	685 ¹	150	2,083	7.1	371.3	364.9 ²	366.0	1.0
B	2,040 ¹	150	2,211	6.7	371.3	366.5 ²	367.3	0.8
C	3,065 ¹	135	2,139	6.9	371.3	367.3 ²	368.0	0.7
D	4,050 ¹	120	1,758	8.4	371.3	367.9 ²	368.8	0.8
E	5,150 ¹	130	1,857	7.9	371.3	369.5 ²	370.3	0.8
F	6,480 ¹	141	2,013	7.3	371.3	371.1 ²	371.7	0.5
G	6,695 ¹	141	2,003	7.3	371.9	371.9	372.1	0.2
H	7,075 ¹	242	2,881	5.1	372.5	372.5	372.9	0.4

¹Feet above confluence with Conewago Creek

²Elevation Computed without consideration of backwater effects from Conewago Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		BENNETT RUN - BERMUDIAN CREEK	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BUFFALO VALLEY RUN								
A	1,342	295	1,390	3.1	470.5	470.5	470.7	0.2
B	2,798	382	2,956	1.4	477.9	477.9	478.3	0.4
C	4,679	218	942	4.5	480.8	480.8	481.4	0.6
D	6,741	380	1,493	2.8	489.2	489.2	489.5	0.3
E	8,727	356	2,253	1.8	497.4	497.4	498.0	0.6
F	9,687	304	1,169	3.4	501.0	501.0	501.0	0.0
G	11,297	356	1,353	3.0	508.2	508.2	508.8	0.6
H	12,460	323	2,042	1.9	517.1	517.1	517.6	0.5
I	13,905	310	732	5.2	522.8	522.8	523.2	0.4
J	14,744	346	1,194	2.2	526.2	526.2	526.8	0.6
K	16,668	247	625	4.3	536.0	536.0	536.0	0.0
L	17,847	381	1,484	1.8	545.3	545.3	545.6	0.3
M	19,024	328	759	3.3	550.2	550.2	550.7	0.5
N	20,177	279	614	4.1	556.4	556.4	557.0	0.6
O	21,119	226	548	4.6	562.2	562.2	562.7	0.5
P	22,719	296	704	3.6	569.0	569.0	569.4	0.4
Q	24,095	151	472	4.3	578.3	578.3	578.7	0.4
R	25,340	177	610	3.4	587.3	587.3	588.0	0.7
S	26,591	75	249	8.3	595.4	595.4	595.9	0.5
T	27,449	125	460	4.5	603.6	603.6	603.9	0.3
U	28,374	158	534	3.8	610.1	610.1	610.1	0.0

¹Feet above confluence with South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BUFFALO VALLEY RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BUFFALO VALLEY RUN (continued)								
V	29,480 ¹	151	473	4.3	618.3	618.3	618.4	0.1
W	30,207 ¹	79	284	7.2	625.0	625.0	625.1	0.1
CABIN CREEK								
A	16,500 ²	50	400	8.9	298.5	298.5	298.9	0.4
B	17,600 ²	80	541	6.6	302.7	302.7	303.5	0.8
C	18,815 ²	50	310	11.5	308.5	308.5	309.1	0.6
D	19,570 ²	65	536	6.7	312.8	312.8	313.2	0.4
E	21,200 ²	54	361	9.9	316.6	316.6	317.2	0.6
F	22,035 ²	65	512	7.0	320.6	320.6	320.9	0.3
G	23,470 ²	55	392	8.4	329.8	329.8	329.8	0.0
H	24,485 ²	70	486	6.8	333.8	333.8	333.8	0.0
I	25,830 ²	91	563	5.8	337.4	337.4	338.4	1.0
J	27,355 ²	80	321	7.7	344.2	344.2	345.0	0.8
K	28,800 ²	80	428	5.8	351.3	351.3	351.4	0.1
L	29,810 ²	52	286	7.6	354.1	354.1	355.1	1.0
M	30,835 ²	49	296	7.3	361.3	361.3	361.3	0.0
N	32,200 ²	49	272	8.0	367.7	367.7	368.1	0.4
O	33,815 ²	60	331	6.5	374.4	374.4	374.9	0.5
P	34,950 ²	52	281	5.8	381.0	381.0	381.0	0.0

¹Stream distance in feet above confluence with South Branch Codorus Creek

²Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BUFFALO VALLEY RUN - CABIN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CABIN CREEK TRIBUTARY NO. 2								
A	1,160 ¹	57	158	5.3	345.5	345.5	346.5	1.0
B	1,830 ¹	40	138	6.1	348.9	348.9	349.4	0.5
C	2,740 ¹	35	106	7.3	355.6	355.6	355.7	0.1
D	3,630 ¹	51	92	7.8	366.3	366.3	366.4	0.1
CABIN CREEK TRIBUTARY NO. 5								
A	465 ¹	32	72	7.1	387.7	387.7	387.9	0.2
B	2,095 ¹	41	83	6.1	403.1	403.1	403.2	0.1
CANADOCHLY CREEK								
A	120 ²	25	167	5.1	243.1	228.8 ³	229.4	0.6
B	1,045 ²	35	136	6.2	243.1	232.9 ³	233.9	1.0
C	1,985 ²	35	124	6.8	243.1	242.8 ³	242.8	0.0
D	2,765 ²	37	161	5.2	247.7	247.7	248.2	0.5
E	3,680 ²	37	124	6.8	255.0	255.0	255.0	0.0
F	4,645 ²	55	148	4.2	263.1	263.1	263.3	0.2
G	5,665 ²	40	83	7.5	271.5	271.5	271.5	0.0
H	6,860 ²	35	89	6.9	283.3	283.3	283.3	0.0

¹Feet above confluence with Cabin Creek

²Feet above confluence with Susquehanna River

³Elevation computed without consideration of backwater effects from Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CABIN CREEK TRIBUTARY NO. 2 -
CABIN CREEK TRIBUTARY NO. 5 - CANADOCHLY CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CANADOCHLY CREEK (continued)								
I	7,850 ¹	35	134	4.6	291.4	291.4	291.6	0.2
J	8,845 ¹	34	99	4.0	302.0	302.0	302.2	0.2
K	9,785 ¹	32	76	5.2	308.2	308.2	308.4	0.2
L	10,765 ¹	32	84	4.7	317.2	317.2	317.2	0.0
M	11,780 ¹	31	67	5.9	327.8	327.8	327.8	0.0
N	13,440 ¹	21	37	4.6	347.4	347.4	347.4	0.0
CARTER CREEK								
A	680 ²	113	537	3.3	478.9	478.9	479.8	0.9
B	830 ²	101	472	3.8	480.5	480.5	481.2	0.7
C	1,080 ²	50	256	6.9	483.0	483.0	483.6	0.6
D	1,960 ²	34	150	11.8	490.6	490.6	490.6	0.0
E	2,870 ²	88	480	3.7	506.8	506.8	507.6	0.8
F	3,450 ²	48	175	10.2	513.6	513.6	513.7	0.1
G	4,350 ²	37	174	10.2	523.1	523.1	523.6	0.5
H	5,120 ²	60	458	3.9	535.2	535.2	535.9	0.7
I	5,650 ²	32	157	11.3	543.3	543.3	543.3	0.0
J	6,150 ²	47	184	9.6	553.1	553.1	553.8	0.7
K	6,780 ²	69	383	4.6	561.5	561.5	562.2	0.7
L	7,100 ²	66	298	6.0	563.6	563.6	564.5	0.9

¹Feet above confluence with Susquehanna River

²Feet above confluence with North Branch Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CANADOCHLY CREEK - CARTER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CARTER CREEK (continued)								
M	7,930 ¹	35	179	9.9	572.1	572.1	572.7	0.6
N	8,520 ¹	31	150	11.8	580.0	580.0	580.1	0.1
O	8,710 ¹	67	321	5.5	583.4	583.4	584.0	0.6
P	9,280 ¹	37	158	11.2	590.4	590.4	590.8	0.4
Q	10,140 ¹	83	499	3.6	601.9	601.9	602.8	0.9
R	10,480 ¹	32	145	12.2	604.8	604.8	604.8	0.0
S	10,910 ¹	40	233	7.6	611.5	611.5	612.4	0.9
T	11,090 ¹	26	276	6.4	619.2	619.2	619.2	0.0
CENTERVILLE CREEK								
A	635 ²	300	1,305	2.9	534.3	534.3	534.4	0.1
B	805 ²	383	1,736	2.2	534.6	534.6	535.6	1.0
C	1,760 ²	188	829	4.6	536.0	536.0	537.0	1.0
D	2,575 ²	39	311	12.3	540.1	540.1	540.3	0.2
E	4,065 ²	97	633	6.0	546.6	546.6	546.8	0.2
F	5,190 ²	132	769	4.9	549.1	549.1	550.0	0.9
G	5,730 ²	170	556	6.8	553.3	553.3	553.8	0.5
H	7,030 ²	98	447	4.4	559.3	559.3	560.3	1.0
I	8,305 ²	61	281	7.0	566.3	566.3	567.3	1.0

¹Feet above confluence with North Branch Muddy Creek

³Elevation computed without consideration of backwater effects from South Branch
Codorus Creek

²Feet above confluence with South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CARTER CREEK - CENTERVILLE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CENTERVILLE CREEK (continued)								
J	9,845	76	233	8.0	578.4	578.4	578.4	0.0
K	10,400	61	255	7.4	580.5	580.5	581.1	0.6
L	11,550	131	581	3.2	589.2	589.2	589.2	0.0
M	12,750	95	232	7.1	597.7	597.7	598.7	1.0
N	13,940	60	257	5.8	608.6	608.6	608.8	0.2
O	14,370	50	205	7.3	610.6	610.6	611.0	0.4
P	14,515	38	140	10.7	611.6	611.6	611.6	0.0
Q	14,730	74	370	4.1	615.6	615.6	616.6	1.0
R	14,915	119	510	2.9	617.1	617.1	618.0	0.9
S	15,020	61	311	4.8	618.0	618.0	618.5	0.5
T	15,145	66	307	4.9	618.5	618.5	618.8	0.3
U	16,130	40	181	8.3	623.6	623.6	624.2	0.6
V	21,485	66	200	4.8	670.5	670.5	671.5	1.0
W	22,565	27	108	8.9	680.3	680.3	681.1	0.8
X	22,800	35	179	5.4	683.4	683.4	683.7	0.3
Y	23,040	37	99	9.4	685.6	685.6	685.8	0.2
Z	23,570	32	115	4.9	693.1	693.1	693.1	0.0
AA	24,285	40	201	2.8	705.9	705.9	706.0	0.1
AB	24,780	50	176	3.2	711.5	711.5	712.5	1.0

¹Feet above confluence with South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CENTERVILLE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CENTERVILLE CREEK TRIBUTARY								
A	660 ¹	30	66	6.3	693.4	693.4	693.4	0.0
B	1,395 ¹	20	59	7.0	705.3	705.3	705.6	0.3
C	1,545 ¹	60	210	2.0	708.3	708.3	709.0	0.7
CHERRY RUN								
A	700 ²	25	123	3.8	504.0	501.2 ⁴	501.7	0.5
B	880 ²	30	144	3.3	504.0	503.8 ⁴	503.9	0.1
C	1,175 ²	24	96	4.9	510.1	510.1	510.8	0.7
CODORUS CREEK								
A	15,730 ³	102	1,474	17.2	292.0	292.0	292.1	0.1
B	17,140 ³	163	2,206	11.5	303.5	303.5	303.9	0.4
C	18,420 ³	117	1,514	16.7	307.6	307.6	308.1	0.5
D	19,590 ³	168	2,230	11.4	315.4	315.4	316.0	0.6
E	21,460 ³	137	2,066	12.3	328.8	328.8	329.8	1.0
F	21,780 ³	154	1,769	14.3	329.9	329.9	330.3	0.4
G	22,300 ³	275	3,528	7.2	333.7	333.7	334.6	0.9
H	22,810 ³	257	3,738	6.8	334.9	334.9	335.8	0.9

¹Feet above confluence with Centerville Creek

²Feet above confluence with South Branch Codorus Creek

³Feet above confluence with Susquehanna River

⁴Elevation computed without consideration of backwater effects from South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CENTERVILLE CREEK TRIBUTARY - CHERRY RUN -
CODORUS CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
I	24,460	304	4,271	5.9	336.7	336.7	337.5	0.8
J	25,540	418	3,711	6.8	337.6	337.6	338.3	0.7
K	26,840	737	7,219	3.5	339.6	339.6	340.4	0.8
L	26,958	786	8,251	3.1	341.9	341.9	342.7	0.8
M	28,713	563	7,628	3.3	342.7	342.7	343.5	0.8
N	30,913	319	3,560	7.1	343.6	343.6	344.2	0.6
O	32,253	542	6,303	4.0	345.8	345.8	346.6	0.8
P	34,040	720	7,299	3.4	347.6	347.6	348.4	0.8
Q	35,690	882	9,918	2.6	348.7	348.7	349.5	0.8
R	36,640	857	7,791	3.3	349.1	349.1	349.9	0.8
S	38,190	501	4,256	6.0	350.6	350.6	351.3	0.7
T	39,145	324	3,190	7.9	351.5	351.5	352.3	0.8
U	40,455	230	2,857	8.9	353.5	353.5	354.4	0.9
V	42,255	219	3,505	7.2	356.5	356.5	357.5	1.0
W ⁵	43,685	191	3,325	7.6	358.0	358.0	359.0	1.0
X ⁵	44,520	219	4,318	5.9	359.6	359.6	360.5	0.9
Y ⁵	45,230	244	4,836	5.2	359.9	359.9	360.8	0.9
Z ⁵	46,060	288	4,963	5.1	360.1	360.1	361.0	0.9
AA ⁵	47,940	331	5,501	4.6	360.8	360.8	361.6	0.8
AB ⁵	49,490	329	5,135	4.9	361.3	361.3	362.0	0.7

¹Feet above confluence with Susquehanna River

⁵This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levees that have not been demonstrated to meet the requirements of NFIP Regulation 65.10. Please refer to the Section 4.4 of this FIS for more information.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
AC ⁵	49,673	329	5,196	4.9	361.3	361.3	362.3	1.0
AD ⁵	49,705	331	5,200	4.9	361.3	361.3	362.3	1.0
AE ⁵	51,178	329	5,476	3.6	361.9	361.9	362.8	0.9
AF ⁵	51,387	320	5,391	3.7	362.0	362.0	362.9	0.9
AG ⁵	52,342	323	5,095	3.9	362.1	362.1	363.0	0.9
AH ⁵	53,865	265	4,235	4.7	362.4	362.4	363.3	0.9
AI ⁵	55,620	250	3,143	6.3	362.9	362.9	363.7	0.8
AJ ⁵	56,095	250	2,583	7.7	363.1	363.1	364.1	1.0
AK ⁵	56,430	171	2,589	7.7	363.4	363.4	364.3	0.9
AL ⁵	56,715	171	2,597	7.7	363.6	363.6	364.6	1.0
AM ⁵	57,500	249	3,394	5.9	364.5	364.5	365.5	1.0
AN ⁵	57,700	236	3,110	6.4	364.5	364.5	365.5	1.0
AO ⁵	57,855	236	3,092	6.4	364.6	364.6	365.6	1.0
AP ⁵	58,340	164	2,703	7.4	364.7	364.7	365.7	1.0
AQ ⁵	58,505	164	2,691	7.4	364.8	364.8	365.8	1.0
AR ⁵	58,943	149	2,364	8.4	364.9	364.9	365.9	1.0
AS ⁵	59,069	149	2,343	8.5	365.0	365.0	366.0	1.0
AT ⁵	59,514	182	2,900	6.9	365.8	365.8	366.6	0.8
AU ⁵	59,614	182	2,896	6.9	365.8	365.8	366.8	1.0
AV ⁵	60,047	211	3,155	6.3	366.2	366.2	367.2	1.0

¹Feet above confluence with Susquehanna River

⁵This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levees that have not been demonstrated to meet the requirements of NFIP Regulation 65.10. Please refer to the Section 4.4 of this FIS for more information.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
AW ⁵	60,185	211	3,094	6.4	366.2	366.2	367.2	1.0
AX ⁵	60,610	200	2,947	6.8	366.4	366.4	367.3	0.9
AY ⁵	60,760	200	2,926	6.8	366.4	366.4	367.4	1.0
AZ ⁵	61,960	268	3,760	5.3	367.3	367.3	368.2	0.9
BA ⁵	63,345	305	2,851	7.0	367.7	367.7	368.6	0.9
BB ⁵	63,800	305	2,938	6.8	368.1	368.1	369.0	0.9
BC ⁵	64,950	341	3,628	5.5	369.1	369.1	369.9	0.8
BD	65,910	340	4,705	4.2	369.7	369.7	370.4	0.7
BE	66,053	340	4,500	4.4	370.4	370.4	371.1	0.7
BF	67,488	304	2,603	7.6	370.9	370.9	371.5	0.6
BG	68,688	265	3,085	6.5	373.0	373.0	373.3	0.3
BH	70,603	301	3,168	6.3	375.0	375.0	375.3	0.3
BI	71,583	268	3,357	5.9	375.9	375.9	376.4	0.5
BJ	73,263	281	3,785	5.3	377.4	377.4	377.8	0.4
BK	75,033	423	4,657	4.3	378.9	378.9	379.5	0.6
BL	76,943	510	4,720	4.2	380.7	380.7	381.4	0.7
BM	77,013	511	4,691	4.2	381.0	381.0	381.8	0.8
BN	78,443	406	4,465	4.5	382.7	382.7	383.6	0.9
BO	80,863	464	5,614	3.5	383.9	383.9	384.9	1.0

¹Feet above confluence with Susquehanna River

⁵This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levees that have not been demonstrated to meet the requirements of NFIP Regulation 65.10. Please refer to the Section 4.4 of this FIS for more information.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
BP	134,840	239	2,228	6.9	443.3	443.3	443.3	0.0
BQ	135,720	380	3,375	4.6	444.1	444.1	444.7	0.6
BR	136,570	425	3,506	4.4	444.7	444.7	445.4	0.7
BS	137,485	378	2,799	5.5	445.4	445.4	446.1	0.7
BT	138,760	544	4,730	3.3	447.9	447.9	448.9	1.0
BU	139,805	175	2,029	7.6	451.0	451.0	451.8	0.8
BV	140,426	245	3,126	4.9	452.2	452.2	453.0	0.8
BW	142,005	362	4,085	3.8	459.0	459.0	459.0	0.0
BX	142,195	404	4,392	3.5	459.9	459.9	459.9	0.0
BY	143,250	391	3,586	4.3	460.4	460.4	460.5	0.1
BZ	144,155	533	4,795	3.2	461.1	461.1	461.4	0.3
CA	145,320	677	6,049	2.5	461.4	461.4	461.9	0.5
CB	146,565	753	6,267	2.5	461.7	461.7	462.2	0.5
CC	147,325	523	4,544	3.4	461.8	461.8	462.3	0.5
CD	148,205	675	5,169	3.0	462.2	462.2	462.8	0.6
CE	148,870	535	3,712	4.2	462.4	462.4	463.1	0.7
CF	149,440	466	3,309	4.7	462.9	462.9	463.5	0.6
CG	150,395	563	3,752	3.2	463.5	463.5	464.5	1.0
CH	150,615	608	2,655	4.5	463.9	463.9	464.7	0.8

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
CI	151,310	675	3,636	3.3	464.5	464.5	465.5	1.0
CJ	152,510	649	3,402	3.5	465.5	465.5	466.4	0.9
CK	153,395	285	2,133	4.6	470.4	470.4	471.4	1.0
CL	154,690	321	2,317	5.2	474.4	474.4	475.2	0.8
CM	155,885	546	3,973	3.0	476.2	476.2	477.0	0.8
CN	156,950	437	3,566	3.4	479.7	479.7	480.2	0.5
CO	157,540	502	3,750	3.2	480.2	480.2	480.9	0.7
CP	159,320	186	1,494	8.0	482.4	482.4	483.3	0.9
CQ	160,690	490	4,464	2.7	486.5	486.5	487.5	1.0
CR	162,285	337	2,624	4.6	488.4	488.4	489.4	1.0
CS	163,325	357	2,976	4.0	491.5	491.5	492.5	1.0
CT	164,650	360	2,477	4.8	492.9	492.9	493.8	0.9
CU	165,590	356	2,732	4.4	494.7	494.7	495.6	0.9
CV	166,405	293	3,221	3.7	500.0	500.0	500.3	0.3
CW	167,060	272	2,706	4.4	500.1	500.1	500.6	0.5
CX	168,235	392	3,022	4.0	500.8	500.8	501.3	0.5
CY	169,970	370	2,065	5.8	502.7	502.7	503.5	0.8
CZ	171,525	264	2,027	5.9	508.1	508.1	509.0	0.9
DA	181,305	338	1,363	3.8	519.5	519.5	520.5	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
DB	182,305	362	1,554	3.4	522.7	522.7	523.7	1.0
DC	183,465	210	804	6.5	527.0	527.0	527.8	0.8
DD	183,670	230	1,043	4.9	528.4	528.4	529.0	0.6
DE	184,810	300	1,349	3.5	532.4	532.4	533.4	1.0
DF	185,600	250	1,060	4.4	535.0	535.0	535.8	0.8
DG	187,200	294	1,239	3.8	539.8	539.8	540.7	0.9
DH	187,410	210	1,342	3.5	541.6	541.6	542.3	0.7
DI	188,435	160	769	6.0	544.9	544.9	545.9	1.0
DJ	189,115	220	1,099	4.2	548.1	548.1	549.0	0.9
DK	189,645	400	1,886	2.4	550.8	550.8	551.1	0.3
DL	190,510	170	745	5.2	554.9	554.9	555.8	0.9
DM	191,190	163	633	6.1	558.1	558.1	558.8	0.7
DN	192,245	245	1,191	3.3	563.4	563.4	564.3	0.9
DO	193,965	160	628	6.1	567.3	567.3	568.3	1.0
DP	194,945	188	865	4.4	573.5	573.5	574.2	0.7
DQ	195,250	200	802	4.6	575.5	575.5	575.9	0.4
DR	195,970	200	658	5.6	578.8	578.8	579.3	0.5
DS	196,925	200	750	4.5	583.5	583.5	584.3	0.8
DT	197,920	187	732	4.6	587.7	587.7	588.5	0.8
DU	199,175	149	600	5.1	594.7	594.7	595.5	0.8

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
DV	199,515	179	1,009	3.0	598.6	598.6	599.1	0.5
DW	200,725	118	514	6.0	604.6	604.6	605.4	0.8
DX	201,685	100	465	6.1	608.9	608.9	609.9	1.0
DY	202,125	151	790	3.6	612.3	612.3	612.9	0.6
DZ	203,170	130	513	5.5	615.6	615.6	616.3	0.7
EA	204,370	190	974	2.9	622.8	622.8	623.8	1.0
AB	205,640	61	343	8.2	630.7	630.7	631.5	0.8
EC	205,930	91	505	5.1	634.4	634.4	634.4	0.0
ED	207,060	55	236	8.5	640.6	640.6	641.1	0.5
EE	208,135	60	293	6.8	646.8	646.8	647.4	0.6
EF	208,780	80	332	6.0	650.5	650.5	650.7	0.2
EG	209,195	62	221	6.6	652.2	652.2	653.2	1.0
EH	210,590	30	204	5.5	662.3	662.3	663.3	1.0
EI	211,525	66	155	7.2	668.2	668.2	668.4	0.2
EJ	212,530	31	136	8.2	674.7	674.7	675.5	0.8
EK	213,395	35	207	5.4	679.5	679.5	680.0	0.5
EL	213,780	80	274	4.1	680.5	680.5	681.1	0.6
EM	214,100	115	455	2.5	684.2	684.2	685.0	0.8
EN	214,475	25	93	10.1	685.9	685.9	685.9	0.0
EO	214,825	23	112	8.4	691.9	691.9	692.7	0.8

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK (continued)								
EP	215,415 ¹	65	155	6.0	697.7	697.7	697.7	0.0
EQ	215,955 ¹	35	131	7.2	701.5	701.5	702.0	0.5
ER	216,220 ¹	35	122	7.7	704.4	704.4	704.4	0.0
ES	216,418 ¹	63	275	3.4	707.7	707.7	708.1	0.4
CODORUS CREEK TRIBUTARY A								
A	945 ²	113	430	4.6	347.1	341.9 ³	342.0	0.1
B	1,897 ²	95	313	6.2	347.1	346.8 ³	346.9	0.1
C	2,480 ²	120	701	2.8	353.3	353.3	353.3	0.0
D	2,860 ²	118	526	3.7	353.9	353.9	353.9	0.0
E	3,908 ²	140	477	3.7	354.9	354.9	355.0	0.1
F	4,457 ²	160	319	5.5	356.7	356.7	357.7	1.0
G	4,749 ²	110	408	4.3	361.3	361.3	362.1	0.8
H	5,578 ²	117	288	6.1	368.7	368.7	368.9	0.2
I	6,059 ²	66	213	8.2	374.2	374.2	374.2	0.0
J	6,555 ²	57	330	5.3	382.2	382.2	382.3	0.1
K	7,224 ²	52	429	4.1	391.1	391.1	391.2	0.1
L	8,503 ²	44	150	10.1	394.5	394.5	394.6	0.1
M	9,188 ²	26	144	10.5	400.7	400.7	401.1	0.4
N	9,940 ²	47	175	8.7	414.8	414.8	414.8	0.0

¹Feet above confluence with Susquehanna River

²Feet above confluence with Codorus Creek

³Elevation computed without consideration of backwater effects from Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK - CODORUS CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK TRIBUTARY A1								
A	595 ¹	120	1,239	0.5	363.0	363.0	364.0	1.0
B	995 ¹	160	1,235	0.5	363.0	363.0	364.0	1.0
C	1,455 ¹	140	900	0.7	363.0	363.0	364.0	1.0
D	1,955 ¹	102	287	2.1	363.0	363.0	364.0	1.0
E	2,620 ¹	85	360	1.7	368.0	368.0	368.9	0.9
F	3,050 ¹	74	401	1.5	373.0	373.0	374.0	1.0
CODORUS CREEK TRIBUTARY B								
A	1,189 ²	40	223	5.7	360.7	357.7 ³	357.9	0.2
B	1,879 ²	79	402	3.2	361.6	361.6	361.6	0.0
C	3,455 ²	72	485	2.5	367.4	367.4	367.4	0.0
D	4,483 ²	100	417	2.9	370.8	370.8	370.9	0.1
E	4,946 ²	243	1,030	1.2	374.4	374.4	374.4	0.0
F	6,392 ²	37	187	6.5	376.2	376.2	376.9	0.7
G	7,760 ²	69	170	5.2	381.2	381.2	381.9	0.7
H	9,101 ²	98	205	4.3	386.5	386.5	386.9	0.4
I	9,940 ²	37	120	7.4	392.3	392.3	392.3	0.0

¹Feet above confluence with Codorus Creek Tributary A

²Feet above confluence with Codorus Creek

³Elevation computed without consideration of backwater effects from Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CODORUS CREEK TRIBUTARY A1 -
CODORUS CREEK TRIBUTARY B**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK TRIBUTARY B (continued)								
J	10,816	66	182	4.9	397.6	397.6	398.5	0.9
K	11,074	112	458	1.9	400.3	400.3	401.3	1.0
L	11,352	94	293	3.0	402.8	402.8	403.7	0.9
CODORUS CREEK TRIBUTARY C								
A	165	60	328	5.5	458.2	456.9 ²	456.9	0.0
B	930	516	3,993	0.5	463.4	463.4	463.4	0.0
C	2,020	118	271	6.6	465.3	465.3	465.3	0.0
D	2,710	60	198	9.1	472.6	472.6	472.6	0.0
E	2,914	41	159	11.3	479.1	479.1	479.1	0.0
F	4,408	637	3,811	0.5	528.2	528.2	528.4	0.2

¹Feet above confluence with Codorus Creek

²Elevation computed without consideration of backwater effects from Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CODORUS CREEK TRIBUTARY B -
CODORUS CREEK TRIBUTARY C**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK TRIBUTARY C (continued)								
G	5,378	302	1,833	1.0	528.2	528.2	528.4	0.2
H	6,248	307	1,872	1.0	528.3	528.3	528.5	0.2
I	6,758	47	267	6.7	528.5	528.5	528.5	0.0
J	7,163	102	697	2.6	547.7	547.7	548.0	0.3
K	7,693	75	235	7.7	550.0	550.0	550.0	0.0
L	8,353	91	268	6.7	558.9	558.9	559.1	0.2
M	8,973	135	325	5.5	571.6	571.6	572.3	0.7
N	9,813	130	360	5.0	578.9	578.9	579.2	0.3
O	10,388	134	749	2.4	594.5	594.5	594.6	0.1
CODORUS CREEK TRIBUTARY D								
A	140	21	106	2.8	649.6	649.0 ²	649.6	0.6
B	330	18	59	5.1	649.8	649.8	650.1	0.3
C	535	20	38	7.8	652.1	652.1	652.1	0.0
D	1,140	23	57	5.3	661.2	661.2	661.2	0.0
E	2,010	44	169	1.2	676.4	676.4	676.4	0.0

¹Feet above confluence with Codorus Creek

²Elevation computed without consideration of backwater effects from Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CODORUS CREEK TRIBUTARY C -
CODORUS CREEK TRIBUTARY D**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CODORUS CREEK TRIBUTARY E								
A	240 ¹	35	94	2.8	656.3	656.2 ²	657.2	1.0
B	1,420 ¹	20	63	4.1	673.5	673.5	674.5	1.0
C	2,195 ¹	30	44	4.3	685.3	685.3	685.6	0.3
D	3,525 ¹	40	39	4.9	704.3	704.3	704.3	0.0
E	4,885 ¹	40	109	1.1	730.9	730.9	730.9	0.0
CONEWAGO CREEK								
A	745 ³	175	1,354	16.2	280.1	261.5 ⁴	261.5	0.0
B	2,315 ³	194	2,357	9.3	280.0	269.4 ⁴	269.5	0.1
C	3,725 ³	228	3,469	6.3	279.7	271.9 ⁴	272.0	0.1
D	4,025 ³	364	4,925	4.5	279.6	272.4 ⁴	272.5	0.1
E	4,265 ³	393	4,911	4.5	279.6	272.6 ⁴	272.7	0.1
F	4,590 ³	357	7,728	6.5	279.5	273.0 ⁴	273.0	0.0
G	5,045 ³	287	4,782	10.5	279.5	273.0 ⁴	273.1	0.1
H	5,095 ³	287	5,149	9.8	279.5	273.4 ⁴	274.4	1.0
I	5,790 ³	207	3,727	13.5	279.5	274.2 ⁵	275.0	0.8
J	6,185 ³	228	4,030	12.5	279.5	275.8 ⁵	276.3	0.5
K	6,490 ³	225	4,470	11.3	279.5	276.7 ⁵	277.3	0.6
L	7,205 ³	254	5,876	8.6	279.5	278.3 ⁵	278.9	0.7

¹Feet above confluence with Codorus Creek

²Elevation computed without consideration of flooding controlled by Codorus Creek

³Feet above confluence with Susquehanna River

⁴Elevation computed without consideration of flooding controlled by Susquehanna River

⁵Elevation computed without consideration of backwater effects from Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CODORUS CREEK TRIBUTARY E- CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
M	8,090	232	5,097	10.1	279.5	278.6 ²	279.2	0.6
N	8,915	209	4,357	11.6	279.5	279.1 ²	279.7	0.6
O	9,875	250	5,340	9.6	280.6	280.6	281.4	0.8
P	10,520	225	4,781	10.5	281.1	281.1	281.9	0.8
Q	11,105	220	4,653	10.8	281.6	281.6	282.5	0.9
R	12,000	224	4,491	11.2	282.8	282.8	283.7	0.9
S	12,575	221	5,129	9.8	284.2	284.2	284.9	0.7
T	13,190	205	5,302	9.5	284.6	284.6	285.5	0.9
U	13,725	242	5,873	8.6	285.3	285.3	286.2	0.9
V	14,580	263	5,737	9.5	285.7	285.7	286.6	0.9
W	15,050	301	6,601	7.6	286.7	286.7	287.6	0.9
X	15,475	281	7,380	6.8	287.0	287.0	288.0	1.0
Y	15,505	281	7,386	6.8	287.1	287.1	288.1	1.0
Z	16,200	235	6,401	7.9	287.3	287.3	288.2	0.9
AA	16,540	267	6,552	7.7	287.5	287.5	288.4	0.9
AB	17,190	290	6,538	8.0	287.8	287.8	288.7	0.9
AC	17,825	356	7,761	6.8	288.6	288.6	289.5	0.9
AD	18,665	402	7,403	7.3	288.9	288.9	289.8	0.9
AE	19,920	379	6,889	7.1	289.6	289.6	290.5	0.9
AF	20,420	337	6,526	7.4	289.8	289.8	290.7	0.9

¹Feet above confluence with Susquehanna River

²Elevation computed without consideration of backwater effects from Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY YORK COUNTY, PA (ALL JURISDICTIONS)	FLOODWAY DATA
		CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
AG	21,465	248	5,448	8.6	290.2	290.2	291.1	0.9
AH	23,140	298	6,214	7.5	291.6	291.6	292.5	0.9
AI	24,030	321	6,732	7.7	292.0	292.0	292.9	0.9
AJ	24,765	308	6,948	6.7	292.7	292.7	293.6	0.9
AK	25,535	251	5,665	8.8	292.9	292.9	293.8	0.9
AL	26,445	241	5,235	9.1	293.3	293.3	294.3	1.0
AM	27,330	273	5,578	8.7	294.3	294.3	295.2	0.9
AN	27,795	346	7,255	6.5	295.2	295.2	296.1	0.9
AO	27,845	360	8,048	5.9	296.8	296.8	297.7	0.9
AP	28,545	454	8,587	6.0	297.1	297.1	298.0	0.9
AQ	29,250	361	7,107	7.2	297.2	297.2	298.1	0.9
AR	30,290	337	6,888	7.7	297.7	297.7	298.6	0.9
AS	31,425	252	5,376	8.6	298.3	298.3	299.2	0.9
AT	32,030	282	6,138	8.4	298.8	298.8	299.7	0.9
AU	33,240	448	7,831	6.6	300.0	300.0	300.9	0.9
AV	34,740	353	7,717	6.4	300.7	300.7	301.7	1.0
AW	35,760	283	6,181	7.8	301.0	301.0	302.0	1.0
AX	36,165	244	5,613	8.0	301.4	301.4	302.4	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
AY	36,630	372	7,427	6.5	302.3	302.3	303.1	0.8
AZ	37,270	395	9,373	4.8	302.9	302.9	303.7	0.8
BA	37,275	418	9,839	4.6	303.2	303.2	304.1	0.9
BB	37,995	304	7,468	6.0	303.3	303.3	304.2	0.9
BC	39,015	229	5,369	8.4	303.6	303.6	304.4	0.8
BD	39,780	213	4,661	9.7	304.1	304.1	304.9	0.8
BE	40,435	251	5,324	8.5	305.1	305.1	305.9	0.8
BF	41,000	310	7,024	6.4	306.1	306.1	307.0	0.9
BG	41,100	310	7,092	6.4	306.4	306.4	307.2	0.8
BH	41,565	290	5,478	8.7	306.4	306.4	307.2	0.8
BI	42,245	360	5,851	8.5	307.0	307.0	307.8	0.8
BJ	42,860	264	5,510	8.2	307.5	307.5	308.4	0.9
BK	43,705	207	4,481	10.1	308.1	308.1	309.0	0.9
BL	44,550	265	5,677	8.0	309.5	309.5	310.5	1.0
BM	45,710	249	5,667	8.0	310.5	310.5	311.3	0.8
BN	46,600	216	5,010	9.0	311.1	311.1	311.9	0.8
BO	47,535	185	4,168	10.8	311.9	311.9	312.7	0.8
BP	48,195	189	4,185	10.8	312.7	312.7	313.6	0.9

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
BQ	48,635	181	4,533	10.0	313.8	313.8	314.4	0.6
BR	49,275	209	4,574	9.9	314.3	314.3	315.1	0.8
BS	49,780	176	4,709	9.6	314.9	314.9	315.7	0.8
BT	49,815	176	4,715	9.6	314.9	314.9	315.8	0.9
BU	50,310	273	6,984	6.5	316.4	316.4	317.1	0.7
BV	50,720	247	5,881	7.8	316.4	316.4	317.1	0.7
BW	51,495	220	4,604	9.8	316.7	316.7	317.5	0.8
BX	52,125	167	3,760	12.0	317.4	317.4	318.0	0.6
BY	52,735	219	5,576	8.1	319.1	319.1	319.9	0.8
BZ	53,635	199	4,784	9.8	319.5	319.5	320.4	0.9
CA	54,795	199	4,877	9.5	320.8	320.8	321.5	0.7
CB	55,720	197	4,479	10.4	321.6	321.6	322.3	0.7
CC	56,540	207	5,105	8.8	323.0	323.0	323.7	0.7
CD	57,335	189	4,573	9.9	323.5	323.5	324.3	0.8
CE	57,940	204	4,722	9.6	324.3	324.3	325.1	0.8
CF	58,360	284	6,343	8.1	325.0	325.0	325.9	0.9
CG	58,560	246	5,552	8.8	325.1	325.1	325.9	0.8
CH	59,385	407	8,906	5.1	326.4	326.4	327.4	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
CI	59,740	326	7,862	6.5	326.5	326.5	327.4	0.9
CJ	60,580	195	4,831	9.3	326.6	326.6	327.6	1.0
CK	60,805	206	5,017	9.4	326.9	326.9	327.8	0.9
CL	61,220	321	7,008	6.8	327.9	327.9	328.8	0.9
CM	61,960	275	6,864	7.0	328.3	328.3	329.2	0.9
CN	62,630	235	4,996	9.1	328.4	328.4	329.4	1.0
CO	63,040	246	6,102	7.4	329.3	329.3	330.1	0.8
CP	63,410	299	7,228	6.9	329.6	329.6	330.4	0.8
CQ	64,425	227	5,224	9.2	329.9	329.9	330.7	0.8
CR	65,600	221	5,716	7.9	331.2	331.2	332.0	0.8
CS	66,150	191	4,790	9.4	331.3	331.3	332.2	0.9
CT	67,070	180	4,613	9.8	332.1	332.1	333.0	0.9
CU	67,660	413	7,005	8.2	333.1	333.1	334.0	0.9
CV	68,175	377	7,586	6.9	333.8	333.8	334.7	0.9
CW	69,035	275	6,521	7.8	334.1	334.1	335.1	1.0
CX	70,095	184	4,915	9.2	334.6	334.6	335.6	1.0
CY	70,830	194	5,399	8.4	335.4	335.4	336.4	1.0
CZ	71,320	200	4,961	9.1	336.7	336.7	337.6	0.9

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
DA	71,575	190	4,825	9.4	336.9	336.9	337.7	0.8
DB	72,140	295	6,035	8.2	337.7	337.7	338.5	0.8
DC	73,045	197	5,048	9.1	338.2	338.2	339.0	0.8
DD	73,860	241	5,490	8.5	338.9	338.9	339.7	0.8
DE	74,545	236	6,333	7.3	339.5	339.5	340.4	0.9
DF	75,590	256	6,589	7.0	340.1	340.1	340.9	0.8
DG	76,415	236	6,310	7.5	340.4	340.4	341.1	0.7
DH	77,170	208	5,905	7.6	340.7	340.7	341.4	0.7
DI	77,785	231	6,252	7.4	341.0	341.0	341.8	0.8
DJ	79,035	183	4,911	9.2	341.4	341.4	342.2	0.8
DK	80,205	217	5,572	8.6	342.3	342.3	343.2	0.9
DL	81,100	525	8,890	5.7	343.4	343.4	344.3	0.9
DM	81,950	648	10,623	4.7	343.8	343.8	344.7	0.9
DN	82,545	570	10,571	4.7	343.9	343.9	344.9	1.0
DO	83,265	451	9,269	5.4	344.1	344.1	345.0	0.9
DP	128,950	200	4,427	8.8	359.8	359.8	360.8	1.0
DQ	131,080	205	4,110	9.4	361.6	361.6	362.6	1.0
DR	132,460	213	4,064	9.5	363.3	363.3	364.3	1.0
DS	134,240	393	6,471	6.0	366.1	366.1	367.1	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
DT	136,250	712	8,119	4.8	367.1	367.1	368.1	1.0
DU	138,560	519	9,091	4.3	367.9	367.9	368.9	1.0
DV	140,510	650	1,437	2.4	368.4	368.4	369.4	1.0
DW	142,040	489	8,021	4.8	368.6	368.6	369.6	1.0
DX	142,856	320	7,259	5.3	370.0	370.0	371.0	1.0
DY	143,406	572	8,275	4.7	370.4	370.4	371.3	0.9
DZ	143,535	566	8,139	4.8	370.5	370.5	371.4	0.9
EA	145,988	214	4,660	6.3	371.7	371.7	372.6	0.9
EB	148,518	257	4,861	6.1	373.2	373.2	374.1	0.9
EC	149,468	329	5,633	5.3	373.8	373.8	374.7	0.9
ED	150,698	242	4,707	6.3	374.2	374.2	375.1	0.9
EE	152,888	753	7,248	4.1	375.3	375.3	376.2	0.9
EF	154,798	576	8,185	3.6	376.1	376.1	377.0	0.9
EG	155,680	623	8,912	3.3	376.7	376.7	377.6	0.9
EH	156,550	581	8,396	3.5	376.8	376.8	377.7	0.9
EI	172,850	399	5,912	4.6	383.7	383.7	384.7	1.0
EJ	173,500	331	5,018	5.5	384.4	384.4	385.3	0.9
EK	174,570	569	6,936	3.9	385.8	385.8	386.8	1.0
EL	175,030	709	6,770	4.4	386.1	386.1	387.1	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
EM	175,390	490	6,169	4.4	386.6	386.6	387.6	1.0
EN	175,633	614	7,087	3.9	387.1	387.1	388.1	1.0
EO	176,363	761	7,810	3.5	387.4	387.4	388.4	1.0
EP	177,068	565	6,848	4.0	388.0	388.0	389.0	1.0
EQ	177,588	636	5,652	4.8	388.1	388.1	389.0	0.9
ER	178,238	466	5,935	4.6	388.4	388.4	389.4	1.0
ES	178,413	356	5,262	5.2	388.5	388.5	389.4	0.9
ET	178,853	334	4,831	5.7	388.6	388.6	389.5	0.9
EU	180,048	332	5,175	5.3	389.0	389.0	389.9	0.9
EV	180,893	293	4,720	5.8	389.3	389.3	390.2	0.9
EW	181,973	227	4,295	6.4	389.6	389.6	390.5	0.9
EX	182,883	194	3,318	8.3	389.7	389.7	390.6	0.9
EY	184,123	337	4,951	5.5	390.9	390.9	391.9	1.0
EZ	185,563	305	4,530	6.0	391.4	391.4	392.4	1.0
FA	186,843	436	5,953	4.6	392.1	392.1	393.1	1.0
FB	188,043	198	3,520	7.8	392.2	392.2	393.2	1.0
FC	188,988	269	3,972	6.9	392.9	392.9	393.9	1.0
FD	189,938	366	4,599	6.0	393.3	393.3	394.3	1.0
FE	190,898	268	3,931	7.0	394.2	394.2	395.2	1.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK (continued)								
FF	191,863	237	3,618	7.6	394.7	394.7	395.7	1.0
FG	192,583	234	3,709	7.4	395.7	395.7	396.6	0.9
FH	192,783	243	3,855	7.1	395.8	395.8	396.6	0.8
FI	193,273	352	5,483	5.0	396.6	396.6	397.5	0.9
FJ	193,708	220	3,317	8.3	396.7	396.7	397.7	1.0
FK	194,913	423	5,279	5.2	397.6	397.6	398.5	0.9
FL	195,663	216	3,777	7.3	397.8	397.8	398.8	1.0
FM	196,868	375	6,848	4.0	398.6	398.6	399.6	1.0
FN	197,598	284	3,549	7.7	398.6	398.6	399.6	1.0
FO	198,388	99 / 311 ³	3,872	7.1	398.9	398.9	399.9	1.0
CONEWAGO CREEK FLOOD CHANNEL								
A	180	78 / 225 ³	2,788	10.6	279.5	267.9 ²	268.9	1.0
B	490	165	2,320	12.2	279.5	268.5 ²	269.2	0.7
C	910	155	2,356	12.0	279.5	269.4 ²	270.3	0.9
D	1,640	239	3,787	7.5	279.5	272.0 ²	272.8	0.8

¹Feet above confluence with Susquehanna River

²Elevation computed without consideration of backwater effects from Susquehanna River

³Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**CONEWAGO CREEK -
CONEWAGO CREEK FLOOD CHANNEL**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CONEWAGO CREEK TRIBUTARY 43								
A	1,050 ¹	45	147	5.7	368.4	357.5 ³	357.8	0.3
B	2,240 ¹	70	218	3.8	368.4	362.7 ³	363.5	0.8
C	2,860 ¹	40	95	8.7	368.4	367.4 ³	367.4	0.0
D	3,490 ¹	55	172	4.8	373.4	373.4	373.8	0.4
E	3,730 ¹	48	101	8.3	374.9	374.9	374.9	0.0
F	4,720 ¹	27	109	5.7	387.4	387.4	387.4	0.0
DEER CREEK								
A	24,640 ²	55	359	6.6	730.2	730.2	730.3	0.1
B	25,420 ²	71	256	9.2	733.4	733.4	734.1	0.7
C	26,060 ²	88	303	7.8	739.4	739.4	740.2	0.8
D	26,940 ²	106	577	4.1	743.1	743.1	744.1	1.0
E	27,450 ²	96	337	7.0	751.1	751.1	751.1	0.0
F	28,125 ²	42	265	8.9	759.1	759.1	759.1	0.0
G	28,550 ²	75	407	5.8	760.9	760.9	761.2	0.3
H	29,235 ²	84	263	9.0	766.3	766.3	766.7	0.4
I	29,635 ²	93	420	5.6	769.9	769.9	770.9	1.0
J	29,910 ²	47	180	9.1	771.4	771.4	771.8	0.4
K	30,583 ²	51	269	6.1	776.9	776.9	776.9	0.0

¹Feet above confluence with Conewago Creek

²Feet above Pennsylvania - Maryland State Boundary

³Elevation computed without consideration of backwater effects from Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONEWAGO CREEK TRIBUTARY 43- DEER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DEER CREEK (continued)								
L	30,935 ¹	50	319	5.1	779.8	779.8	780.2	0.4
M	31,505 ¹	62	211	7.7	780.5	780.5	781.3	0.8
N	32,325 ¹	60	181	9.0	791.9	791.9	792.3	0.4
O	33,100 ¹	148	388	4.2	796.3	796.3	797.2	0.9
P	33,875 ¹	80	268	6.1	805.0	805.0	805.0	0.0
Q	34,535 ¹	93	202	8.1	808.9	808.9	809.4	0.5
R	35,245 ¹	108	535	3.1	822.5	822.5	823.2	0.7
S	36,070 ¹	53	172	9.5	827.9	827.9	828.2	0.3
DEER CREEK TRIBUTARY ⁶								
A	185 ²	43	223	4.3	773.3	773.3	774.0	0.7
B	440 ²	56	286	3.4	775.7	775.7	776.0	0.3
C	970 ²	60	176	5.5	778.5	778.5	778.6	0.1
D	1,675 ²	59	245	4.0	785.3	785.3	785.8	0.5
E	2,260 ²	45	223	4.2	796.0	796.0	796.6	0.6
F	2,900 ²	98	235	4.1	797.2	797.2	797.8	0.6
G	3,349 ²	86	337	2.9	807.7	807.7	808.7	1.0
H	3,799 ²	69	248	3.9	812.9	812.9	813.9	1.0
I	4,244 ²	67	132	7.3	817.6	817.6	817.9	0.3

¹Feet above Pennsylvania - Maryland State Boundary

²Feet above confluence with Deer Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

DEER CREEK - DEER CREEK TRIBUTARY 6

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DOGWOOD RUN								
A	1,128	125	692	2.9	429.5	429.5	430.4	0.9
B	2,962	330	1,361	1.5	438.1	438.1	438.7	0.6
C	4,039	129	634	3.2	443.4	443.4	444.3	0.9
D	5,859	253	445	4.5	451.8	451.8	452.3	0.5
E	7,107	498	1,084	0.5	460.0	460.0	460.3	0.3
F	8,631	292	741	2.7	474.0	474.0	474.6	0.6
G	9,941	293	924	1.9	483.7	483.7	484.3	0.6
H	11,777	137	551	3.3	497.7	497.7	498.3	0.6
I	13,715	219	673	2.7	513.3	513.3	514.2	0.9
J	15,438	221	705	2.5	528.5	528.5	529.5	1.0
K	17,083	135	327	3.2	541.9	541.9	542.6	0.7
L	19,148	172	382	2.7	563.8	563.8	564.5	0.7
M	20,601	140	332	3.1	581.6	581.6	582.2	0.7
N	22,398	193	453	2.3	602.8	602.8	603.7	1.0
O	23,810	194	408	2.6	620.4	620.4	621.1	0.8
P	25,201	195	608	1.7	638.6	638.6	639.3	0.7
Q	26,135	117	249	2.7	652.6	652.6	653.6	1.0
R	27,328	50	118	5.7	670.6	670.6	670.9	0.4
S	28,391	53	167	4.0	686.8	686.8	687.7	0.9

¹Feet above confluence with Yellow Breeches Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

DOGWOOD RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EAST BRANCH CODORUS CREEK								
A	329 ¹	350	2,818	4.9	416.0	409.0 ³	409.7	0.7
B	1,026 ¹	310	2,865	4.8	416.0	412.4 ³	413.2	0.8
C	2,106 ¹	380	4,084	3.4	416.0	415.5 ³	416.0	0.5
D	2,922 ¹	360	3,513	3.9	416.5	416.5	417.0	0.5
E	3,292 ¹	270	2,575	5.4	417.0	417.0	417.7	0.7
F	4,044 ¹	267	2,713	4.7	418.8	418.8	419.5	0.7
G	4,535 ¹	261	2,285	5.6	419.5	419.5	420.1	0.6
H	5,192 ¹	304	2,941	4.4	421.7	421.7	422.0	0.3
I	672 ²	340	4,399	2.1	501.1	501.1	501.9	0.8
J	1,482 ²	275	3,251	2.9	501.6	501.6	502.5	0.9
K	2,021 ²	335	3,325	2.8	502.2	502.2	503.1	0.9
L	3,288 ²	455	3,558	2.6	503.1	503.1	504.0	0.9
M	4,011 ²	510	3,042	2.9	504.4	504.4	505.2	0.8
N	4,509 ²	435	2,601	3.4	506.6	506.6	507.1	0.5
O	5,035 ²	300	2,173	4.0	508.3	508.3	509.0	0.7
P	5,675 ²	409	2,772	3.2	510.1	510.1	511.0	0.9
Q	6,792 ²	343	2,311	3.8	512.4	512.4	512.9	0.5
R	7,170 ²	343	2,117	4.1	513.4	513.4	514.1	0.7
S	8,171 ²	630	3,893	2.2	515.7	515.7	516.5	0.8
T	9,717 ²	645	3,161	2.8	518.1	518.1	518.5	0.4

¹Feet above confluence with South Branch Codorus Creek

²Feet above Lake Redman

³Elevation computed without consideration of backwater effects from South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

EAST BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EAST BRANCH CODORUS CREEK (continued)								
U	10,680 ¹	83	538	10.5	519.5	519.5	520.0	0.5
V	11,657 ¹	154	784	7.2	524.3	524.3	524.7	0.4
W	12,630 ¹	84	815	6.9	530.2	530.2	530.4	0.2
X	13,425 ¹	152	1,103	5.1	531.2	531.2	531.7	0.5
Y	14,587 ¹	109	637	8.9	532.2	532.2	533.2	1.0
Z	15,570 ¹	184	972	5.8	536.2	536.2	537.1	0.9
AA	16,762 ¹	163	635	8.9	541.0	541.0	541.5	0.5
AB	17,651 ¹	198	789	7.2	547.7	547.7	547.7	0.0
AC	18,686 ¹	119	626	9.0	549.0	549.0	549.8	0.8
AD	19,771 ¹	191	809	7.0	554.2	554.2	555.0	0.8
AE	20,802 ¹	120	1,006	5.6	563.0	563.0	563.9	0.9
EBAUGHS CREEK								
A	10,450 ²	66	315	7.1	669.4	669.4	670.4	1.0
B	11,340 ²	88	379	5.9	676.3	676.3	676.7	0.4
C	12,058 ²	56	268	8.3	685.3	685.3	686.0	0.7

¹Feet above Lake Redman

²Feet above Pennsylvania - Maryland State Boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

EAST BRANCH CODORUS CREEK - EBAUGHS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EBAUGHS CREEK (continued)								
D	12,737 ¹	61	215	10.4	693.3	693.3	693.3	0.0
E	13,407 ¹	126	926	2.4	699.7	699.7	700.5	0.8
F	13,932 ¹	63	211	10.6	704.5	704.5	704.5	0.0
G	14,187 ¹	75	246	9.1	712.3	712.3	712.5	0.2
H	15,387 ¹	60	310	7.2	717.4	717.4	718.4	1.0
I	15,802 ¹	66	239	9.3	722.6	722.6	723.2	0.6
J	16,352 ¹	91	287	7.8	729.1	729.1	729.8	0.7
K	16,902 ¹	42	190	11.8	735.3	735.3	735.3	0.0
L	17,337 ¹	36	446	5.0	745.8	745.8	745.8	0.0
M	17,567 ¹	44	377	3.5	747.0	747.0	747.0	0.0
EBAUGHS CREEK TRIBUTARY 1								
A	470 ²	29	202	6.5	748.6	748.6	748.8	0.2
B	1,055 ²	52	157	8.3	754.9	754.9	754.9	0.0
C	1,530 ²	64	176	7.4	765.7	765.7	765.9	0.2
D	2,080 ²	74	391	3.3	776.5	776.5	777.4	0.9
E	2,590 ²	65	157	8.3	780.4	780.4	780.7	0.3
F	3,210 ²	86	368	3.5	793.1	793.1	793.9	0.8
G	3,775 ²	60	162	8.0	802.1	802.1	802.3	0.2

¹Feet above Pennsylvania - Maryland State Boundary

²Feet above confluence with Ebaughs Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

EBAUGHS CREEK - EBAUGHS CREEK TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FISHERS RUN								
A	1,900 ¹	54	223	5.6	494.7	494.7	495.2	0.5
B	5,175 ¹	119	602	2.1	505.3	505.3	506.1	0.8
C	7,775 ¹	181	770	1.6	527.7	527.7	528.3	0.6
D	9,400 ¹	211	759	1.6	553.0	553.0	553.7	0.7
E	11,275 ¹	90	231	5.4	603.0	603.0	603.2	0.2
FISHING CREEK NO. 1								
A	200 ²	51	342	11.6	227.0	221.2 ³	222.2	1.0
B	1,200 ²	64	313	12.7	238.3	238.3	238.3	0.0
C	2,220 ²	46	281	14.2	256.0	256.0	256.0	0.0
D	3,210 ²	83	440	5.9	264.3	264.3	264.5	0.2
E	3,330 ²	76	415	6.2	267.8	267.8	268.1	0.3
F	3,855 ²	59	268	9.7	269.5	269.5	270.2	0.7
G	4,640 ²	37	302	8.6	280.4	280.4	280.9	0.5
H	5,440 ²	38	198	13.1	285.2	285.2	285.2	0.0
I	6,700 ²	43	237	10.9	298.5	298.5	299.3	0.8
J	7,440 ²	100	686	3.8	309.4	309.4	310.0	0.6
K	7,930 ²	57	238	10.9	310.3	310.3	310.6	0.3
L	8,670 ²	40	229	11.3	317.8	317.8	318.3	0.5
M	9,255 ²	33	190	13.6	324.5	324.5	324.5	0.0

¹Feet above confluence with Stony Run No. 2

²Feet above confluence with Muddy Creek

³Elevation computed without consideration of backwater effects from Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FISHERS RUN - FISHING CREEK NO. 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FISHING CREEK NO. 1 (continued)								
N	10,095	110	472	5.5	330.3	330.3	331.3	1.0
O	11,095	40	212	12.2	341.0	341.0	341.3	0.3
P	12,145	53	281	9.2	350.3	350.3	351.2	0.9
Q	13,135	136	1,177	2.2	365.2	365.2	366.1	0.9
R	13,425	95	638	3.1	365.8	365.8	366.6	0.8
S	14,395	36	164	12.2	372.1	372.1	372.1	0.0
T	15,345	36	191	10.4	382.0	382.0	382.3	0.3
U	15,860	35	199	10.0	385.5	385.5	386.5	1.0
V	16,935	25	145	13.8	397.9	397.9	397.9	0.0
W	17,725	160	975	2.0	410.8	410.8	410.8	0.0
X	18,270	34	160	12.5	412.9	412.9	412.9	0.0
Y	18,970	27	168	11.9	420.4	420.4	421.0	0.6
Z	19,360	124	222	5.2	426.1	426.1	426.1	0.0
AA	19,790	75	158	7.3	429.1	429.1	429.1	0.0
AB	20,225	80	281	4.1	433.1	433.1	433.1	0.0
AC	21,090	29	158	7.3	446.5	446.5	447.0	0.5
AD	21,850	84	205	5.6	453.9	453.9	454.4	0.5
AE	23,050	42	133	8.6	471.5	471.5	472.3	0.8
AF	23,975	70	244	4.7	491.9	491.9	491.9	0.0

¹Feet above confluence with Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FISHING CREEK NO. 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FISHING CREEK NO. 2								
A	38,005	35	159	10.0	543.7	543.7	544.0	0.3
B	39,020	40	200	6.8	550.0	550.0	550.2	0.2
C	40,095	40	167	8.2	558.4	558.4	559.1	0.7
D	40,905	79	293	4.6	562.4	562.4	563.4	1.0
E	41,610	40	214	6.3	566.5	566.5	566.8	0.3
F	42,295	57	225	6.0	570.1	570.1	570.3	0.2
G	43,010	60	191	5.8	573.6	573.6	574.2	0.6
H	43,480	60	191	5.8	577.6	577.6	577.6	0.0
I	44,135	35	117	9.5	580.8	580.8	581.1	0.3
J	44,820	32	107	10.4	588.6	588.6	588.6	0.0
K	45,510	35	176	6.3	593.7	593.7	593.8	0.1
L	46,435	36	151	7.4	599.1	599.1	599.3	0.2
M	47,125	30	151	7.4	603.4	603.4	603.5	0.1
N	47,825	34	107	8.5	607.1	607.1	607.4	0.3
O	48,610	69	197	4.6	610.9	610.9	611.4	0.5
P	49,220	62	114	8.0	614.2	614.2	614.2	0.0
Q	49,865	56	252	2.8	620.9	620.9	621.9	1.0
R	50,405	26	138	5.1	624.1	624.1	624.6	0.5
S	50,610	25	135	5.2	627.1	627.1	627.1	0.0
T	51,460	36	125	5.7	632.6	632.6	632.6	0.0
U	52,080	22	70	10.1	636.7	636.7	636.7	0.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FISHING CREEK NO. 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FISHING CREEK NO. 2 (continued)								
V	52,760	43	129	5.5	644.0	644.0	644.2	0.2
W	53,010	75	100	7.1	647.4	647.4	647.4	0.0
X	53,250	45	104	6.8	649.7	649.7	649.7	0.0
Y	53,380	55	133	5.3	650.7	650.7	650.9	0.2
Z	53,580	45	105	6.8	652.5	652.5	652.6	0.1
AA	53,820	45	151	4.7	655.7	655.7	655.8	0.1
AB	54,185	41	167	4.2	659.2	659.2	659.8	0.6
AC	54,405	25	118	6.0	660.8	660.8	661.6	0.8
AD	54,755	65	276	2.6	665.7	665.7	666.0	0.3
AE	54,900	55	171	1.6	667.9	667.9	668.1	0.2
AF	55,780	23	47	5.9	675.4	675.4	675.4	0.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FISHING CREEK NO. 2 - FISHING CREEK NO. 3

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FISHING CREEK NO. 3								
A	286 ¹	97	684	8.3	295.8	283.2 ³	283.2	0.0
B	1,173 ¹	355	2,505	2.3	295.8	292.2 ³	292.2	0.0
C	2,339 ¹	78	637	8.9	295.8	295.5 ³	295.7	0.2
D	3,655 ¹	183	770	7.3	304.1	304.1	304.1	0.0
E	4,124 ¹	130	963	5.8	307.6	307.6	307.9	0.3
F	5,174 ¹	146	1,047	5.3	312.0	312.0	312.5	0.5
FOX RUN								
A	2025 ²	86	632	5.8	363.5	363.5	363.5	0.0
B	3325 ²	90	673	5.5	365.7	365.7	366.4	0.7
C	4525 ²	110	927	4.0	367.5	367.5	368.5	1.0
D	5965 ²	102	714	5.1	370.4	370.4	371.2	0.8
E	6415 ²	150	1,013	3.6	371.5	371.5	372.3	0.8
F	7215 ²	200	910	4.0	372.6	372.6	373.4	0.8
G	8155 ²	85	546	6.7	374.4	374.4	375.2	0.8
H	8755 ²	85	692	5.3	377.2	377.2	377.8	0.6
I	9595 ²	148	658	5.6	379.4	379.4	380.1	0.7
J	10835 ²	116	1,157	3.2	381.4	381.4	382.3	0.9
K	11735 ²	148	886	4.1	382.3	382.3	383.3	1.0

¹Feet above confluence with Susquehanna River

³Elevation computed without consideration of backwater effects from Susquehanna River

²Feet above confluence with Little Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FISHING CREEK NO. 3 - FOX RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FOX RUN TRIBUTARY A								
A	390 ¹	90	631	2.7	382.4	382.4	382.4	0.0
B	1,100 ¹	64	384	4.4	382.8	382.8	383.6	0.8
C	2,000 ¹	65	381	4.4	386.0	386.0	386.7	0.7
D	3,050 ¹	90	546	3.1	388.5	388.5	389.3	0.8
E	3,220 ¹	54	188	9.0	388.7	388.7	389.5	0.8
F	3,975 ¹	55	309	5.5	395.5	395.5	396.0	0.5
FOX RUN TRIBUTARY A1								
A	70 ²	107	684	2.5	384.3	384.3	385.1	0.8
B	1,770 ²	75	201	8.5	385.5	385.5	385.9	0.4
C	2,090 ²	293	1,077	1.6	389.1	389.1	389.8	0.7
D	3,890 ²	83	205	8.4	393.8	393.8	394.1	0.3
E	6,250 ²	187	957	1.8	406.2	406.2	406.9	0.7
FOX RUN TRIBUTARY 4								
A	400 ¹	36	109	6.8	382.4	381.9 ³	381.9	0.0
B	1,720 ¹	60	146	5.1	395.0	395.0	395.0	0.0
C	3,320 ¹	41	135	5.5	402.9	402.9	403.7	0.8

¹Feet above confluence with Fox Run

²Feet above confluence with Fox Run Tributary A

³Elevation computed without consideration of backwater effects from Fox Run

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**FOX RUN TRIBUTARY A - FOX RUN TRIBUTARY A1 -
FOX RUN TRIBUTARY 4**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FURNACE CREEK								
A	830 ¹	320	1,948	0.4	622.7	622.6 ³	623.6	1.0
B	1,155 ¹	170	771	1.0	622.8	622.8	623.7	0.9
C	2,030 ¹	48	186	4.2	625.4	625.4	626.4	1.0
D	2,970 ¹	35	158	5.0	631.7	631.7	632.1	0.4
E	3,160 ¹	96	431	1.8	634.8	634.8	635.0	0.2
F	3,585 ¹	32	116	6.8	636.4	636.4	636.6	0.2
G	4,770 ¹	42	182	4.3	644.0	644.0	644.8	0.8
H	5,330 ¹	30	139	5.6	648.3	648.3	648.4	0.1
I	6,745 ¹	35	107	4.8	656.5	656.5	656.7	0.2
J	7,595 ¹	36	109	4.8	661.5	661.5	662.3	0.8
K	8,260 ¹	33	96	5.4	667.3	667.3	667.3	0.0
L	9,750 ¹	22	80	6.5	682.9	682.9	683.2	0.3
M	11,070 ¹	24	89	5.8	696.4	696.4	697.2	0.8
N	12,270 ¹	28	99	2.5	709.4	709.4	709.5	0.1
O	12,455 ¹	20	34	7.4	710.5	710.5	710.5	0.0
GITTS RUN								
A	995 ²	84	200	4.8	539.4	539.4	540.4	1.0
B	1,615 ²	115	350	2.8	544.5	544.5	545.3	0.8
C	2,150 ²	94	652	1.5	551.5	551.5	551.5	0.0
D	2,525 ²	95	378	2.6	551.6	551.6	551.6	0.0

¹Feet above Lake Marburg

³Elevation computed without consideration of backwater effects from Lake Marburg

²Feet above confluence with Oil Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FURNACE CREEK - GITTS RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
GITTS RUN (continued)								
E	3,350 ¹	125	1,315	0.7	558.9	558.9	559.3	0.4
F	4,275 ¹	120	454	2.1	558.9	558.9	559.4	0.5
G	4,888 ¹	125	852	1.1	567.0	567.0	568.0	1.0
H	5,578 ¹	125	340	2.8	567.0	567.0	568.0	1.0
I	6,368 ¹	77	139	6.9	571.1	571.1	571.3	0.2
J	7,113 ¹	91	252	3.8	578.1	578.1	579.1	1.0
HARTMAN RUN								
A	12,400 ²	50	446	11.4	315.0	315.0	316.0	1.0
B	12,745 ²	41	311	15.4	318.0	318.0	318.1	0.1
C	12,875 ²	50	605	8.4	325.5	325.5	325.5	0.0
D	12,960 ²	105	1,210	4.0	326.3	326.3	326.3	0.0
E	13,115 ²	107	1,291	3.8	326.4	326.4	326.4	0.0
F	13,575 ²	94	856	5.9	326.5	326.5	326.5	0.0
G	13,735 ²	128	767	6.8	326.9	326.9	326.9	0.0
H	14,010 ²	68	514	9.1	327.2	327.2	327.5	0.3
I	14,440 ²	58	355	13.6	332.1	332.1	332.1	0.0
J	15,230 ²	68	359	12.2	338.6	338.6	338.7	0.1
K	15,500 ²	50	347	12.6	345.8	345.8	345.8	0.0
L	15,815 ²	40	284	14.9	350.5	350.5	350.5	0.0

¹Feet above confluence with Oil Creek

²Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

GITTS RUN - HARTMAN RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HARTMAN RUN (continued)								
M	16,300	40	365	11.9	357.2	357.2	357.6	0.4
N	16,450	52	699	7.7	364.3	364.3	364.3	0.0
O	16,550	60	641	8.5	364.4	364.4	364.4	0.0
P	16,775	66	767	5.9	368.1	368.1	368.1	0.0
Q	16,955	50	590	7.2	368.2	368.2	368.2	0.0
R	17,130	54	546	8.0	368.3	368.3	368.4	0.1
S	17,300	71	942	5.5	373.5	373.5	373.6	0.1
T	17,730	109	1,079	4.2	374.1	374.1	374.4	0.3
U	18,180	61	489	8.5	374.6	374.6	374.7	0.1
V	18,420	30	397	10.5	380.1	380.1	380.1	0.0
W	18,615	24	271	6.0	381.7	381.7	381.8	0.1
X	19,095	22	122	13.3	382.5	382.5	382.9	0.4
Y	19,295	40	287	5.8	388.5	388.5	388.5	0.0
Z	19,615	25	169	9.9	389.0	389.0	389.0	0.0
AA	19,735	74	467	3.5	393.0	393.0	393.9	0.9
AB	19,995	82	411	4.2	393.2	393.2	393.9	0.7
AC	20,240	25	135	12.1	393.7	393.7	393.9	0.2
AD	20,405	75	401	4.4	400.4	400.4	401.0	0.6
AE	20,600	60	357	4.7	400.7	400.7	401.2	0.5
AF	23,370	69	282	3.8	420.5	420.5	421.4	0.9

¹Feet above confluence with Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	HARTMAN RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HARTMAN RUN (continued)								
AG	23,795	33	112	9.5	422.5	422.5	422.7	0.2
AH	24,305	50	160	6.9	428.8	428.8	429.2	0.4
AI	24,495	65	280	3.8	433.2	433.2	433.2	0.0
AJ	24,655	70	216	4.9	433.4	433.4	433.5	0.1
AK	25,165	25	92	11.4	438.9	438.9	439.0	0.1
AL	25,545	67	276	3.8	442.3	442.3	443.3	1.0
AM	25,870	50	122	8.7	444.8	444.8	444.8	0.0

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HARTMAN RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
HONEY RUN								
A	420 ¹	415	569	2.2	396.5	391.8 ³	391.8	0.0
B	2,120 ¹	85	230	5.3	399.9	399.9	400.0	0.1
C	2,905 ¹	137	392	3.1	402.5	402.5	403.1	0.6
D	3,970 ¹	105	281	4.4	408.0	408.0	408.0	0.0
E	5,430 ¹	87	269	4.6	419.1	419.1	419.3	0.2
INNERS CREEK								
A	250 ²	80	313	4.1	494.0	494.0	494.7	0.7
B	965 ²	60	196	6.5	500.0	500.0	500.0	0.0
C	1,785 ²	50	188	6.8	509.3	509.3	509.5	0.2
D	2,475 ²	50	153	8.4	514.9	514.9	514.9	0.0
E	2,995 ²	39	129	9.9	520.5	520.5	520.5	0.0
F	3,174 ²	69	221	5.8	523.0	523.0	523.0	0.0
G	3,544 ²	62	157	8.2	525.5	525.5	525.6	0.1
H	4,114 ²	90	125	10.2	533.1	533.1	533.1	0.0
I	4,894 ²	31	123	10.4	543.7	543.7	544.4	0.7
J	5,124 ²	32	126	10.1	547.3	547.3	547.5	0.2
K	5,300 ²	40	126	10.1	550.4	550.4	550.4	0.0
L	5,730 ²	40	156	8.2	555.4	555.4	555.8	0.4

¹Feet above confluence with Little Conewago Creek

²Feet above confluence with East Branch Codorus Creek

³Elevations computed without consideration of backwater effects from Little Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HONEY RUN - INNERS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
INNERS CREEK (continued)								
M	5,913	40	232	5.5	559.4	559.4	559.9	0.5
N	6,303	40	124	10.3	563.2	563.2	563.2	0.0
O	6,643	40	159	8.0	567.5	567.5	568.0	0.5
P	6,815	40	206	6.2	572.1	572.1	572.1	0.0
Q	7,460	40	127	10.1	579.4	579.4	579.4	0.0
R	7,613	50	332	3.9	583.8	583.8	584.6	0.8
S	8,343	46	146	8.8	591.7	591.7	592.2	0.5
T	8,673	46	136	9.4	596.9	596.9	596.9	0.0
U	8,857	50	230	5.6	601.5	601.5	601.5	0.0
V	9,597	50	167	7.7	611.8	611.8	612.7	0.9
W	10,282	30	146	8.8	620.9	620.9	621.8	0.9
X	10,452	30	123	10.4	623.4	623.4	623.4	0.0
Y	10,617	30	247	5.2	631.2	631.2	631.2	0.0

¹Feet above confluence with East Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

INNERS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK								
A	180	133	1,381	10.6	244.9	240.8 ²	241.8	1.0
B	780	105	1,120	13.0	244.9	242.2 ²	243.1	0.9
C	1,240	115	1,443	10.6	249.7	249.7	249.7	0.0
D	1,370	195	2,550	6.6	252.5	252.5	252.5	0.0
E	1,725	270	3,323	4.6	253.0	253.0	253.0	0.0
F	1,805	186	2,364	6.7	253.4	253.4	253.4	0.0
G	2,340	165	1,800	8.5	253.7	253.7	253.8	0.1
H	2,850	108	1,568	9.9	254.8	254.8	255.4	0.6
I	3,480	189	2,067	7.8	256.6	256.6	257.1	0.5
J	3,950	189	2,143	7.0	257.3	257.3	258.0	0.7
K	4,530	127	1,680	8.7	257.6	257.6	258.4	0.8
L	5,235	165	2,102	7.1	259.0	259.0	259.8	0.8
M	5,680	143	1,804	8.4	259.3	259.3	260.2	0.9
N	5,850	122	1,617	9.2	259.5	259.5	260.4	0.9
O	6,245	100	1,274	11.2	260.3	260.3	261.1	0.8
P	6,880	119	1,627	8.9	263.1	263.1	263.3	0.2

¹Feet above confluence with Susquehanna River

²Elevation computed without consideration of backwater effects from Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
Q	7,580	265	3,072	5.4	264.5	264.5	265.0	0.5
R	8,030	203	2,231	7.8	264.6	264.6	265.1	0.5
S	8,385	265	3,423	4.2	268.2	268.2	269.0	0.8
T	8,457	281	3,427	4.4	268.3	268.3	269.0	0.7
U	8,515	264	3,350	4.4	268.3	268.3	269.0	0.7
V	8,945	263	2,956	4.8	268.4	268.4	269.1	0.7
W	9,035	290	3,337	4.2	268.5	268.5	269.3	0.8
X	9,165	318	3,690	3.8	268.6	268.6	269.4	0.8
Y	9,365	347	3,514	4.1	268.6	268.6	269.4	0.8
Z	9,585	292	3,079	4.7	268.7	268.7	269.4	0.7
AA	9,635	282	2,972	4.8	268.7	268.7	269.5	0.8
AB	9,795	211	2,434	5.9	268.7	268.7	269.5	0.8
AC	10,015	181	2,123	6.7	268.8	268.8	269.5	0.7
AD	10,070	160	1,943	7.3	268.9	268.9	269.6	0.7
AE	10,330	137	1,576	10.2	269.0	269.0	269.8	0.8
AF	10,560	80	1,238	11.9	270.0	270.0	270.6	0.6
AG	10,830	128	1,757	8.5	271.4	271.4	272.3	0.9
AH	11,240	97	1,378	10.4	271.8	271.8	272.6	0.8
AI	11,855	129	1,560	9.6	273.1	273.1	274.0	0.9
AJ	12,205	104	1,313	11.1	273.8	273.8	274.4	0.6

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
AK	12,485	161	2,255	6.6	277.0	277.0	277.3	0.3
AL	12,885	223	2,638	5.7	277.4	277.4	277.9	0.5
AM	13,200	286	2,998	5.3	278.1	278.1	278.7	0.6
AN	13,240	325	3,225	4.6	278.5	278.5	279.0	0.5
AO	13,340	414	3,694	4.0	278.5	278.5	279.1	0.6
AP	13,910	345	3,138	5.0	278.6	278.6	279.2	0.6
AQ	14,200	401	2,338	6.2	278.6	278.6	279.3	0.7
AR	15,005	208	1,956	7.4	279.3	279.3	280.0	0.7
AS	15,730	178	1,945	7.4	280.2	280.2	280.9	0.7
AT	16,245	223	2,213	6.4	280.9	280.9	281.7	0.8
AU	16,585	217	2,331	5.9	281.3	281.3	282.2	0.9
AV	17,095	257	2,633	5.2	281.8	281.8	282.7	0.9
AW	17,345	332	3,224	5.4	281.9	281.9	282.8	0.9
AX	17,620	213	2,063	7.5	282.1	282.1	282.9	0.8
AY	17,820	75	1,224	11.0	283.3	283.3	284.1	0.8
AZ	17,960	195	1,707	11.2	283.7	283.7	284.5	0.8
BA	18,365	318	2,621	6.1	286.4	286.4	286.9	0.5
BB	18,850	128	1,852	7.3	286.8	286.8	287.3	0.5
BC	18,875	132	2,242	6.0	288.4	288.4	288.9	0.5
BD	19,525	155	1,568	9.4	288.6	288.6	288.9	0.3

¹Feet above confluence with Susquehanna River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
BE	19,985	214	1,593	9.8	289.3	289.3	290.1	0.8
BF	20,835	232	2,113	8.0	293.3	293.3	293.5	0.2
BG	21,235	338	3,407	4.6	294.2	294.2	294.8	0.6
BH	22,075	221	2,202	7.1	294.7	294.7	295.2	0.5
BI	22,375	182	1,998	7.5	295.2	295.2	295.8	0.6
BJ	22,480	275	4,262	3.3	302.3	302.3	302.6	0.3
BK	23,320	283	4,004	3.4	302.3	302.3	302.7	0.4
BL	23,580	306	4,267	3.3	302.4	302.4	302.8	0.4
BM	23,755	270	3,546	3.9	302.4	302.4	302.8	0.4
BN	24,105	275	3,598	3.9	302.5	302.5	302.9	0.4
BO	24,985	271	3,182	4.2	302.7	302.7	303.1	0.4
BP	25,850	283	2,620	5.2	302.9	302.9	303.4	0.5
BQ	27,000	232	1,939	7.0	303.6	303.6	304.4	0.8
BR	27,865	331	2,620	7.9	305.4	305.4	305.7	0.3
BS	28,295	320	3,178	6.1	306.3	306.3	306.9	0.6
BT	29,340	289	2,470	8.4	307.1	307.1	308.0	0.9
BU	29,460	340	4,409	4.5	313.0	313.0	313.7	0.7
BV	29,910	394	5,010	3.1	313.3	313.3	314.1	0.8
BW	30,495	442	5,435	3.4	313.4	313.4	314.2	0.8
BX	30,655	506	7,161	1.9	314.9	314.9	315.7	0.8

¹Feet above confluence with Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
BY	31,250	299	3,398	4.0	314.9	314.9	315.7	0.8
BZ	32,190	273	2,947	4.4	315.2	315.2	316.0	0.8
CA	32,850	239	1,986	6.8	315.5	315.5	316.3	0.8
CB	33,430	185	1,666	8.2	316.4	316.4	317.0	0.6
CC	34,140	199	1,880	6.9	317.7	317.7	318.5	0.8
CD	34,750	202	1,577	8.5	318.3	318.3	319.0	0.7
CE	35,260	62	733	17.6	319.2	319.2	320.1	0.9
CF	35,340	259	3,568	4.7	326.2	326.2	326.4	0.2
CG	35,690	291	3,895	3.6	326.5	326.5	326.7	0.2
CH	36,225	310	3,712	3.8	326.7	326.7	326.9	0.2
CI	36,620	293	2,818	5.2	326.7	326.7	327.0	0.3
CJ	36,695	285	2,993	5.1	326.8	326.8	327.0	0.2
CK	36,970	223	2,041	6.1	326.9	326.9	327.1	0.2
CL	37,380	85	1,025	13.1	327.1	327.1	327.3	0.2
CM	37,460	70	1,170	10.6	329.8	329.8	329.9	0.1
CN	38,145	218	2,818	4.4	331.6	331.6	332.0	0.4
CO	38,980	284	2,936	4.2	331.8	331.8	332.3	0.5
CP	39,760	317	2,845	4.4	332.0	332.0	332.5	0.5
CQ	40,375	120	1,886	7.1	332.2	332.2	332.8	0.6
CR	40,525	275	3,572	3.5	337.5	337.5	337.9	0.4

¹Feet above confluence with Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
CS	41,220	365	3,582	3.9	337.6	337.6	338.1	0.5
CT	41,535	497	4,303	3.3	337.8	337.8	338.3	0.5
CU	42,180	313	2,784	4.5	338.0	338.0	338.5	0.5
CV	42,670	214	1,734	7.2	338.4	338.4	339.0	0.6
CW	43,115	285	2,274	5.7	340.0	340.0	340.2	0.2
CX	43,815	270	2,008	6.3	340.8	340.8	341.2	0.4
CY	43,965	290	2,183	7.5	342.5	342.5	342.5	0.0
CZ	44,220	290	2,637	6.4	342.8	342.8	343.0	0.2
DA	44,915	360	2,073	7.4	343.9	343.9	344.6	0.7
DB	45,585	360	2,408	5.3	345.9	345.9	346.4	0.5
DC	46,450	340	1,254	6.5	346.5	346.5	347.2	0.7
DD	46,465	340	1,352	5.2	346.9	346.9	347.7	0.8
DE	46,535	325	1,021	10.1	349.1	349.1	349.1	0.0
DF	46,755	310	3,132	2.2	355.5	355.5	355.5	0.0
DG	47,235	260	1,658	4.0	355.5	355.5	355.5	0.0
DH	47,835	196	1,181	5.7	355.8	355.8	356.1	0.3
DI	47,955	248	1,780	3.9	359.5	359.5	359.9	0.4
DJ	48,375	283	1,799	3.7	359.9	359.9	360.3	0.4
DK	49,045	178	705	10.3	362.1	362.1	362.8	0.7
DL	50,100	180	859	8.4	370.2	370.2	370.6	0.4

¹Feet above confluence with Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
DM	50,560	160	695	10.7	373.8	373.8	373.8	0.0
DN	51,065	145	649	11.4	378.3	378.3	378.7	0.4
DO	51,210	130	1,003	6.9	382.9	382.9	382.9	0.0
DP	51,575	105	694	10.8	383.3	383.3	383.4	0.1
DQ	52,350	80	506	14.4	390.3	390.3	390.3	0.0
DR	52,585	105	717	10.6	393.6	393.6	393.6	0.0
DS	53,240	140	624	11.3	397.3	397.3	397.9	0.6
DT	53,370	143	813	8.5	398.8	398.8	399.7	0.9
DU	53,670	185	870	10.9	401.0	401.0	401.1	0.1
DV	54,035	141	743	11.8	404.2	404.2	404.7	0.5
DW	54,615	180	1,214	7.1	409.6	409.6	410.2	0.6
DX	55,480	87	604	13.8	415.7	415.7	416.5	0.8
DY	60,500	80	501	8.3	466.0	466.0	466.4	0.4
DZ	61,578	110	902	4.6	475.1	475.1	475.2	0.1
EA	62,711	144	848	4.9	479.5	479.5	480.5	1.0
EB	63,209	140	640	6.5	482.3	482.3	482.9	0.6
EC	64,254	215	1,205	3.4	487.4	487.4	488.3	0.9
ED	65,762	180	1,103	3.1	494.1	494.1	495.0	0.9
EE	68,446	292	1,195	2.9	503.0	503.0	503.9	0.9
EF	70,168	125	759	4.5	513.1	513.1	513.9	0.8

¹Feet above confluence with Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	KREUTZ CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK (continued)								
EG	71,962 ¹	150	604	5.7	522.6	522.6	522.7	0.1
EH	75,150 ¹	127	604	4.5	532.0	532.0	532.9	0.9
EI	76,949 ¹	199	835	3.5	540.7	540.7	541.2	0.5
EJ	79,166 ¹	132	531	5.4	549.3	549.3	550.0	0.7
EK	81,014 ¹	56	350	8.3	558.6	558.6	559.6	1.0
EL	83,011 ¹	175	806	3.6	568.9	568.9	569.8	0.9
EM	84,364 ¹	215	814	3.6	577.4	577.4	578.3	0.9
KREUTZ CREEK TRIBUTARY D								
A	85 ²	17	66	8.8	340.5	333.7 ³	333.7	0.0
B	360 ²	17	56	10.4	340.5	337.6 ³	337.6	0.0
C	730 ²	17	62	9.5	345.0	345.0	345.0	0.0
D	835 ²	20	108	5.4	347.2	347.2	348.0	0.8
E	1,305 ²	20	59	9.8	353.9	353.9	354.1	0.2

¹Feet above confluence with Susquehanna River

²Feet above confluence with Kreutz Creek

³Elevation computed without consideration of backwater effects from Kreutz Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK - KREUTZ CREEK TRIBUTARY D

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK TRIBUTARY D (continued)								
F	1,695	31	72	8.3	362.5	362.5	362.5	0.0
G	1,815	29	109	5.3	365.6	365.6	366.3	0.7
H	1,895	27	69	8.9	368.1	368.1	368.1	0.0
I	2,035	49	263	2.3	374.9	374.9	375.2	0.3
J	2,150	23	72	8.0	374.9	374.9	375.2	0.3
K	2,250	35	188	3.1	378.3	378.3	378.3	0.0
L	2,470	30	75	8.4	379.8	379.8	379.8	0.0
M	2,680	26	48	5.4	382.3	382.3	382.7	0.4
N	2,850	19	32	7.1	388.0	388.0	388.0	0.0
O	2,900	6	25	8.8	389.4	389.4	389.8	0.4
P	3,151	16	65	3.3	396.9	396.9	396.9	0.0
Q	3,461	16	34	6.2	398.7	398.7	398.9	0.2
R	3,611	15	40	5.4	402.4	402.4	402.7	0.3
S	3,841	15	26	7.9	410.2	410.2	410.4	0.2
T	4,096	15	36	6.3	420.1	420.1	421.0	0.9
KREUTZ CREEK TRIBUTARY E								
A	795	249	1,826	3.7	346.8	346.8	347.7	0.9
B	1,540	209	1,111	6.3	348.0	348.0	348.8	0.8
C	1,850	205	760	7.2	349.8	349.8	350.4	0.6

¹Feet above confluence with Kreutz Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK TRIBUTARY D - KREUTZ CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK TRIBUTARY E (continued)								
D	1,883 ¹	203	1,048	5.0	351.3	351.3	352.0	0.7
E	1,945 ¹	237	763	5.3	351.4	351.4	352.1	0.7
F	2,405 ¹	196	745	5.7	354.0	354.0	354.0	0.0
G	2,775 ¹	225	742	7.9	356.4	356.4	357.0	0.6
H	3,235 ¹	220	809	5.1	360.9	360.9	361.8	0.9
I	3,670 ¹	220	664	7.1	365.9	365.9	366.1	0.2
J	3,940 ¹	205	825	5.3	368.9	368.9	369.3	0.4
K	4,430 ¹	195	573	7.1	374.6	374.6	374.6	0.0
L	4,540 ¹	170	592	4.2	377.9	377.9	378.4	0.5
M	4,705 ¹	210	680	10.1	378.4	378.4	378.4	0.0
N	4,790 ¹	125	567	5.8	380.7	380.7	380.7	0.0
O	5,065 ¹	163	510	6.4	381.2	381.2	381.6	0.4
P	5,310 ¹	82	503	6.4	387.3	387.3	387.3	0.0
Q	5,915 ¹	146	427	8.3	395.3	395.3	395.8	0.5
KREUTZ CREEK TRIBUTARY E1								
A	335 ²	140	1,933	2.2	362.7	362.7	362.7	0.0
B	410 ²	160	2,130	2.0	362.8	362.8	362.8	0.0
C	590 ²	207	2,708	1.6	362.8	362.8	362.8	0.0
D	1,030 ²	290	3,301	1.3	362.8	362.8	362.8	0.0

¹Feet above confluence with Kreutz Creek

²Feet above confluence with Kreutz Creek Tributary E

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

KREUTZ CREEK TRIBUTARY E - KREUTZ CREEK TRIBUTARY E1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK TRIBUTARY E1 (continued)								
E	1,590	338	3,319	1.3	362.8	362.8	362.8	0.0
F	2,785	364	2,916	1.4	362.8	362.8	362.8	0.0
G	3,980	215	1,512	2.7	362.9	362.9	362.9	0.0
H	4,050	224	1,562	2.6	362.9	362.9	362.9	0.0
I	4,905	112	425	9.9	363.5	363.5	363.9	0.4
J	5,615	133	650	6.3	367.6	367.6	368.5	0.9
K	6,420	147	887	4.6	369.6	369.6	370.4	0.8
L	6,490	156	1,017	4.0	370.2	370.2	371.0	0.8
M	7,010	155	458	9.0	371.4	371.4	371.7	0.3
N	7,420	169	683	6.0	373.9	373.9	374.8	0.9
KREUTZ CREEK TRIBUTARY E2								
A	70	81	372	2.6	356.5	356.5	357.5	1.0
B	805	51	108	7.1	360.0	360.0	360.0	0.0
C	1,595	62	198	3.6	364.3	364.3	364.7	0.4
D	2,105	45	93	7.9	367.0	367.0	367.3	0.3
E	2,455	30	99	7.2	371.4	371.4	372.4	1.0
F	2,770	29	104	6.8	374.4	374.4	375.1	0.7
G	3,340	26	114	5.6	379.9	379.9	380.1	0.2
H	3,905	30	105	6.2	390.9	390.9	391.2	0.3

¹Feet above confluence with Kreutz Creek Tributary E

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA			
	(ALL JURISDICTIONS)		KREUTZ CREEK TRIBUTARY E1 - KREUTZ CREEK TRIBUTARY E2	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
KREUTZ CREEK TRIBUTARY E2 (continued)								
I	4,445 ¹	50	134	4.6	395.3	395.3	395.5	0.2
J	4,590 ¹	59	196	3.1	400.8	400.8	401.5	0.7
K	4,610 ¹	57	242	2.5	401.0	401.0	401.7	0.7
L	4,710 ¹	109	338	1.7	401.3	401.3	402.0	0.7
M	5,045 ¹	124	371	1.6	401.5	401.5	402.2	0.7
N	5,145 ¹	156	810	0.7	403.9	403.9	404.8	0.9
O	5,275 ¹	173	808	0.7	403.9	403.9	404.8	0.9
P	5,510 ¹	166	682	0.9	404.0	404.0	404.9	0.9
LITTLE CONEWAGO CREEK								
A	863 ²	213	2,537	5.4	289.1	283.0 ³	283.5	0.5
B	1,650 ²	114	1,325	10.3	289.1	284.0 ³	284.3	0.3
C	2,334 ²	119	1,655	8.3	289.1	286.8 ³	287.0	0.2
D	2,920 ²	113	1,718	8.0	289.1	287.7 ³	287.9	0.2
E	3,948 ²	122	1,776	7.7	289.9	289.9	290.2	0.3
F	5,107 ²	142	1,919	7.1	291.7	291.7	292.3	0.6
G	6,118 ²	183	2,447	5.6	293.7	293.7	294.2	0.5
H	6,859 ²	125	2,024	6.8	294.5	294.5	295.0	0.5
I	7,632 ²	323	3,207	4.2	295.6	295.6	296.1	0.5
J	8,454 ²	230	3,461	3.9	299.3	299.3	299.9	0.6

¹Feet above confluence with Kreutz Creek Tributary E

²Feet above confluence with Conewago Creek

³Elevation computed without consideration of backwater effects from Conewago Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		KREUTZ CREEK TRIBUTARY E2 - LITTLE CONEWAGO CREEK	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CONEWAGO CREEK (continued)								
K	9,913	130	2,153	6.3	300.6	300.6	301.3	0.7
L	11,001	178	2,591	5.2	302.1	302.1	303.0	0.9
M	11,795	115	1,997	6.8	302.7	302.7	303.6	0.9
N	12,492	142	2,212	6.1	303.9	303.9	304.8	0.9
O	13,370	205	2,573	5.3	304.9	304.9	305.9	1.0
P	14,094	185	2,758	4.9	306.0	306.0	307.0	1.0
Q	15,337	135	2,046	6.6	307.5	307.5	308.4	0.9
R	17,527	213	2,761	4.9	310.4	310.4	311.1	0.7
S	19,079	169	2,383	5.7	312.4	312.4	313.1	0.7
T	20,321	269	3,485	3.9	313.8	313.8	314.7	0.9
U	21,103	397	4,609	2.9	314.8	314.8	315.6	0.8
V	21,955	290	3,175	4.1	315.5	315.5	316.1	0.6
W	23,302	456	4,438	2.9	316.5	316.5	317.4	0.9
X	24,434	290	3,002	4.3	317.3	317.3	318.1	0.8
Y	25,173	400	3,305	3.9	317.8	317.8	318.8	1.0
Z	26,376	455	4,910	2.6	320.2	320.2	321.2	1.0
AA	28,692	346	3,383	3.8	322.0	322.0	322.9	0.9
AB	29,854	265	3,141	4.1	323.3	323.3	324.1	0.8
AC	31,443	344	2,975	4.3	324.7	324.7	325.4	0.7
AD	32,049	420	4,323	3.0	325.6	325.6	326.5	0.9

¹Feet above confluence with Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LITTLE CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CONEWAGO CREEK (continued)								
AE	33,321	260	3,128	4.0	326.2	362.2	327.2	1.0
AF	34,590	357	3,733	3.4	327.2	327.2	328.2	1.0
AG	35,316	310	3,500	3.6	327.7	327.7	328.7	1.0
AH	38,828	269	2,992	5.0	331.6	331.6	331.6	0.0
AI	39,323	337	3,533	4.2	331.6	331.6	332.3	0.7
AJ	39,661	405	6,006	2.5	331.6	331.6	332.6	1.0
AK	39,700	412	6,307	2.4	332.0	332.0	333.0	1.0
AL	40,000	370	4,521	3.3	332.1	332.1	333.1	1.0
AM	40,080	371	4,537	3.3	332.1	332.1	333.1	1.0
AN	40,385	354	3,432	4.4	332.4	332.4	333.4	1.0
AO	41,539	336	3,589	4.2	333.1	333.1	334.1	1.0
AP	42,789	282	2,913	5.1	333.7	333.7	334.7	1.0
AQ	68,013	510	2,632	2.7	371.6	371.6	371.9	0.3
AR	68,991	260	2,364	3.0	373.3	373.3	373.4	0.1
AS	70,241	177	1,831	3.8	374.3	374.3	375.0	0.7
AT	71,792	297	2,647	2.7	375.4	375.4	376.3	0.9
AU	72,803	174	1,680	4.2	376.8	376.8	377.8	1.0
AV	73,944	463	3,353	2.1	378.5	378.5	379.3	0.8
AW	75,561	200	1,813	3.7	380.5	380.5	381.1	0.6
AX	76,641	265	2,770	2.4	382.1	382.1	382.9	0.8

¹Feet above confluence with Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LITTLE CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CONEWAGO CREEK (continued)								
AY	77,672	554	4,841	1.4	382.5	382.5	383.4	0.9
AZ	79,423	340	1,940	3.5	383.2	383.2	384.2	1.0
BA	80,997	216	2,325	2.9	387.0	387.0	387.8	0.8
BB	83,793	500	4,091	1.5	388.1	388.1	388.9	0.8
BC	84,828	312	2,656	2.3	389.0	389.0	389.8	0.8
BD	85,995	281	2,235	2.7	390.5	390.5	391.3	0.8
BE	88,153	338	3,041	2.0	393.6	393.6	394.4	0.8
BF	88,492	214	2,073	3.0	395.2	395.2	395.5	0.3
BG	88,902	202	1,964	3.1	395.6	395.6	396.0	0.4
BH	89,764	238	2,502	2.4	396.3	396.3	397.0	0.7
BI	91,282	357	3,106	1.7	397.0	397.0	397.9	0.9
BJ	92,099	234	1,865	2.8	397.6	397.6	398.5	0.9
BK	99,880	148	1,151	4.2	410.7	410.7	411.3	0.6
BL	100,698	157	1,299	3.7	412.2	412.2	412.7	0.5
BM	102,786	356	2,257	2.1	414.6	414.6	415.0	0.4
BN	103,231	220	1,163	4.1	416.5	416.5	416.7	0.2
BO	104,344	105	676	3.6	417.7	417.7	418.2	0.5
BP	108,514	127	578	3.8	440.7	440.7	441.0	0.3
BQ	109,399	193	973	2.3	443.2	443.2	443.7	0.5
BR	110,887	194	,946	2.3	446.2	446.2	446.7	0.5

¹Feet above confluence with Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LITTLE CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CONEWAGO CREEK (continued)								
BS	111,867	162	976	2.3	449.2	449.2	449.7	0.5
BT	113,275	102	259	8.6	456.0	456.0	456.1	0.1
BU	114,066	199	1,580	1.4	458.3	458.3	458.7	0.4
BV	115,832	58	226	6.0	460.0	460.0	460.0	0.0
BW	116,888	180	500	2.7	461.9	461.9	462.0	0.1
BX	118,419	213	532	2.5	465.8	465.8	466.4	0.6
BY	119,100	203	612	2.2	468.5	468.5	468.8	0.3
BZ	120,297	155	450	3.0	472.1	472.1	472.7	0.6
CA	121,269	257	474	2.9	475.1	475.1	475.8	0.7
CB	122,316	236	626	2.2	479.5	479.5	480.2	0.7
CC	122,982	305	728	1.9	481.3	481.3	481.5	0.2
CD	123,863	330	495	2.7	485.0	485.0	485.3	0.3
CE	124,243	252	463	2.9	487.8	487.8	488.6	0.8
CF	125,446	195	331	4.1	499.8	499.8	500.1	0.3
CG	125,716	120	271	5.0	502.6	502.6	503.2	0.6
CH	126,247	98	221	6.1	509.7	509.7	510.3	0.6
CI	126,994	109	327	4.1	520.8	520.8	521.2	0.4

¹Feet above confluence with Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LITTLE CONEWAGO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
LITTLE CONEWAGO CREEK TRIBUTARY 16								
A	276	47	319	6.5	366.7	366.7	367.3	0.6
B	1,401	110	473	4.4	373.4	373.4	373.9	0.5
C	2,484	75	266	7.8	383.7	383.7	383.9	0.2
D	3,395	110	344	6.0	390.9	390.9	391.4	0.5
E	5,053	48	160	7.6	400.0	400.0	400.0	0.0
F	6,130	76	204	5.9	409.2	409.2	409.2	0.0
G	6,763	75	255	4.7	416.5	416.5	416.5	0.0
H	7,227	93	294	4.1	420.6	420.6	420.7	0.1
I	7,848	80	186	6.5	429.7	429.7	429.8	0.1
J	8,529	45	169	7.2	436.8	436.8	437.0	0.2
K	9,087	66	292	4.2	446.2	446.2	446.9	0.7
LITTLE CONEWAGO CREEK TRIBUTARY 24								
A	687	40	122	8.0	463.6	463.6	463.7	0.1
B	2,485	38	155	6.3	471.1	471.1	472.1	1.0
C	3,513	190	668	1.5	475.9	475.9	476.8	0.9
D	4,198	110	243	4.0	479.2	479.2	479.9	0.7

¹Feet above confluence with Little Conewago Creek

TABLE 8	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		LITTLE CONEWAGO CREEK TRIBUTARY 16- LITTLE CONEWAGO CREEK TRIBUTARY 24	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MICHAEL RUN								
A	9,580 ¹	92	410	3.3	272.0	272.0	273.0	1.0
B	10,600 ¹	43	155	8.8	282.7	282.7	282.7	0.0
C	11,660 ¹	77	263	5.2	291.6	291.6	292.6	1.0
D	12,530 ¹	49	177	7.7	298.9	298.9	299.2	0.3
E	13,520 ¹	48	145	9.4	311.3	311.3	311.6	0.3
F	14,260 ¹	56	209	6.5	316.7	316.7	317.7	1.0
G	14,720 ¹	131	792	1.7	324.8	324.8	325.8	1.0
MILL BRANCH								
A	85 ²	95	384	4.9	400.4	400.4	401.4	1.0
B	845 ²	33	163	11.5	410.5	410.5	410.5	0.0
C	1,620 ²	59	221	8.5	422.3	422.3	423.0	0.7
D	2,490 ²	36	174	10.8	436.4	436.4	436.8	0.4
E	3,130 ²	56	217	8.7	446.4	446.4	446.9	0.5
F	3,920 ²	77	263	7.1	456.2	456.2	457.1	0.9
G	4,795 ²	90	329	5.7	466.9	466.9	467.9	1.0
H	5,755 ²	80	403	3.2	485.9	485.9	486.5	0.6
I	6,730 ²	64	212	6.2	499.5	499.5	499.9	0.4
J	8,015 ²	64	278	4.7	508.4	508.4	509.0	0.6
K	9,140 ²	33	140	9.4	519.8	519.8	520.3	0.5
L	11,150 ²	63	162	8.1	578.9	578.9	579.3	0.4

¹Feet above confluence with Susquehanna River

²Feet above confluence with Otter Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MICHAEL RUN - MILL BRANCH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK								
A	253	128	800	14.2	361.4	361.4	361.4	0.0
B	428	100	740	15.4	362.8	362.8	362.8	0.0
C	2,283	867	6,747	1.7	366.4	366.4	367.0	0.6
D	2,528	875	6,846	1.7	366.5	366.5	367.4	0.9
E	2,668	199	1,573	7.3	366.5	366.5	367.2	0.7
F	4,595	217	1,624	6.2	369.9	369.9	370.6	0.7
G	4,725	217	1,431	7.0	370.4	370.4	371.3	0.9
H	7,246	659	1,678	6.0	376.8	376.8	377.3	0.5
I	8,176	147	700	14.4	384.5	384.5	383.3	1.2
J	8,906	277	1,415	7.1	390.5	390.5	389.7	-0.8
K	9,631	222	1,178	8.5	392.2	392.2	392.0	-0.2
L	10,051	208	1,594	6.3	397.4	397.4	397.5	0.1
M	10,263	191	1,641	6.1	399.3	399.3	399.4	0.1
N	10,488	134	1,377	7.3	399.4	399.4	399.6	0.2
O	11,108	147	1,489	6.8	401.3	401.3	401.8	0.5
P	12,346	144	974	10.3	403.5	403.5	404.2	0.7
Q	14,046	601	2,191	4.6	413.4	413.4	413.8	0.4
R	15,096	401	885	11.3	421.0	421.0	421.1	0.1
S	16,096	459	1,652	6.1	430.7	430.7	431.6	0.9
T	17,768	168	732	13.8	444.3	444.3	444.3	0.0
U	18,318	139	920	10.9	449.3	449.3	449.4	0.1

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK (continued)								
V	20,320	111	826	3.6	460.2	460.2	461.2	1.0
W	20,790	57	325	9.2	462.7	462.7	463.5	0.8
X	21,344	64	252	11.9	469.1	469.1	469.1	0.0
Y	21,604	73	420	7.1	472.4	472.4	472.4	0.0
Z	21,984	56	258	7.6	474.0	474.0	474.0	0.0
AA	23,104	34	156	12.5	484.3	484.3	484.3	0.0
AB	23,724	45	241	8.1	491.2	491.2	491.3	0.1
AC	24,334	50	172	11.3	495.9	495.9	495.9	0.0
AD	24,834	61	280	7.0	501.4	501.4	501.4	0.0
AE	25,674	120	299	6.5	509.9	509.9	509.9	0.0
AF	25,818	120	516	3.8	511.5	511.5	512.3	0.8
AG	26,728	33	156	12.5	518.5	518.5	518.5	0.0
AH	26,937	40	228	8.6	524.0	524.0	524.0	0.0
AI	27,977	44	243	8.0	531.3	531.3	532.1	0.8
AJ	28,697	106	433	4.5	536.3	536.3	537.0	0.7
AK	29,377	105	298	6.6	541.1	541.1	541.9	0.8
AL	29,767	104	452	4.3	544.2	544.2	545.0	0.8
AM	29,935	134	591	3.3	546.4	546.4	547.3	0.9
AN	30,595	36	161	12.1	550.7	550.7	550.7	0.0
AO	30,725	60	316	6.2	554.5	554.5	554.6	0.1

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK (continued)								
AP	31,655	37	198	9.9	559.3	559.3	559.7	0.4
AQ	32,235	45	210	6.4	564.4	564.4	565.3	0.9
AR	32,695	142	274	4.9	568.2	568.2	568.6	0.4
AS	32,879	140	477	2.8	570.1	570.1	571.0	0.9
AT	33,419	100	217	6.2	573.5	573.5	573.8	0.3
AU	34,009	70	201	6.7	580.8	580.8	581.8	1.0
AV	34,809	50	198	6.8	590.8	590.8	591.8	1.0
AW	35,479	50	170	7.9	600.6	600.6	600.6	0.0
AX	35,859	50	220	6.1	604.4	604.4	604.8	0.4
AY	36,032	50	240	5.6	607.6	607.6	608.2	0.6
AZ	36,642	40	120	11.2	613.7	613.7	613.7	0.0
BA	38,002	90	350	3.8	628.2	628.2	629.2	1.0
BB	38,617	70	187	7.2	634.1	634.1	634.2	0.1
BC	39,497	70	310	4.3	641.9	641.9	642.9	1.0
BD	39,857	50	176	7.6	644.7	644.7	645.3	0.6
BE	40,447	41	143	5.3	650.8	650.8	651.7	0.9
BF	40,631	50	279	2.7	655.6	655.6	656.1	0.5
BG	41,151	90	105	7.2	659.0	659.0	659.0	0.0
BH	42,515	40	152	5.0	677.0	677.0	677.7	0.7
BI	43,135	35	144	5.2	683.5	683.5	683.8	0.3

¹Feet above confluence with Codorus Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	YORK COUNTY, PA (ALL JURISDICTIONS)	MILL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK (continued)								
BJ	43,280 ¹	33	106	7.1	684.4	684.4	684.6	0.2
BK	43,575 ¹	45	185	4.1	693.2	693.2	693.8	0.6
BL	44,899 ¹	18	66	7.5	703.9	703.9	704.0	0.1
BM	45,289 ¹	18	62	8.0	710.0	710.0	710.9	0.9
BN	45,499 ¹	41	159	3.1	714.4	714.4	714.7	0.3
BO	46,139 ¹	18	51	9.8	722.0	722.0	722.0	0.0
BP	46,669 ¹	21	78	6.4	730.3	730.3	731.0	0.7
BQ	46,859 ¹	22	54	9.1	733.2	733.2	733.2	0.0
BR	47,519 ¹	15	69	7.2	741.6	741.6	742.6	1.0
BS	48,209 ¹	13	47	10.7	753.0	753.0	753.0	0.0
MILL CREEK TRIBUTARY A								
A	106 ²	52	244	3.9	473.7	472.0 ³	473.0	1.0
B	265 ²	50	166	5.8	473.7	472.6 ³	473.4	0.8
C	635 ²	46	141	6.8	475.4	475.4	475.4	0.0
D	865 ²	56	133	7.2	477.1	477.1	477.1	0.0
E	1,040 ²	25	88	10.9	480.2	480.2	480.2	0.0
F	1,510 ²	38	198	4.8	484.8	484.8	484.9	0.1
G	1,910 ²	30	106	9.1	486.3	486.3	486.5	0.2

¹Feet above confluence with Codorus Creek

²Feet above confluence with Mill Creek

³Elevation computed without consideration of backwater effects from Mill Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		MILL CREEK - MILL CREEK TRIBUTARY A	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK TRIBUTARY A (continued)								
H	2,800	44	119	5.2	494.9	494.9	495.6	0.7
I	3,120	28	93	6.7	497.0	497.0	497.7	0.7
J	3,810	32	97	6.4	505.8	505.8	505.9	0.1
K	4,739	29	143	4.3	517.9	517.9	518.1	0.2
L	5,269	42	102	6.1	521.3	521.3	521.3	0.0
M	5,799	39	138	4.5	526.5	526.5	527.5	1.0
N	6,529	35	74	8.4	536.1	536.1	536.1	0.0
O	7,529	19	65	9.5	551.2	551.2	551.2	0.0
P	8,468	45	78	7.9	566.9	566.9	566.9	0.0
Q	9,208	31	83	7.5	578.5	578.5	578.6	0.1
R	9,528	29	72	8.6	583.0	583.0	583.0	0.0
S	10,298	20	63	9.9	597.1	597.1	597.1	0.0
T	11,008	22	73	8.5	608.5	608.5	608.8	0.3
U	11,258	23	72	8.6	612.4	612.4	612.4	0.0
V	11,648	26	66	9.4	619.3	619.3	619.3	0.0
W	11,758	28	135	4.6	622.5	622.5	622.5	0.0

¹Feet above confluence with Mill Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MILL CREEK TRIBUTARY A1								
A	40	74	162	3.5	494.5	493.5 ²	494.4	0.9
B	214	70	199	2.8	498.0	498.0	498.0	0.0
C	984	31	65	8.6	502.7	502.7	502.7	0.0
D	1,614	24	79	7.1	511.1	511.1	511.2	0.1
E	2,139	31	79	7.0	515.9	515.9	516.0	0.1
F	2,819	23	61	9.2	525.2	525.2	525.2	0.0
G	3,429	23	80	7.0	534.2	534.2	534.5	0.3
H	3,694	23	64	8.8	538.4	538.4	538.4	0.0
I	3,854	34	98	5.7	540.4	540.4	541.1	0.7
J	4,094	28	75	7.5	545.0	545.0	545.0	0.0
K	4,494	33	65	8.6	551.5	551.5	551.5	0.0
L	4,651	33	60	9.3	554.8	554.8	554.8	0.0
M	5,351	24	63	8.8	567.4	567.4	567.4	0.0
N	5,661	25	73	7.7	572.0	572.0	572.1	0.1
O	5,860	28	82	6.8	576.6	576.6	576.6	0.0
P	6,330	32	67	8.4	582.9	582.9	582.9	0.0
Q	6,630	21	59	9.5	588.6	588.6	588.6	0.0

¹Feet above confluence with Mill Creek Tributary A

²Elevation computed without consideration of backwater effects from Mill Creek Tributary A

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL CREEK TRIBUTARY A1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MUDDY CREEK								
A	-460	217	1,811	9.7	219.7	219.7	220.7	1.0
B	1,020	156	1,775	9.9	222.8	222.8	223.7	0.9
C	2,160	102	1,760	10.0	225.7	225.7	226.2	0.5
D	2,320	94	1,355	13.0	226.2	226.2	226.2	0.0
E	3,420	88	1,234	13.0	229.2	229.2	230.0	0.8
F	4,155	131	1,009	16.0	232.7	232.7	232.7	0.0
G	5,797	117	1,502	10.7	238.9	238.9	239.1	0.2
H	6,977	111	1,199	13.3	241.8	241.8	242.4	0.6
I	8,077	140	1,595	10.1	247.0	247.0	247.2	0.2
J	9,217	99	977	16.5	249.9	249.9	250.0	0.1
K	10,207	85	970	16.6	257.0	257.0	257.0	0.0
L	11,427	120	1,645	9.8	264.7	264.7	265.5	0.8
M	12,507	106	1,389	11.6	266.8	266.8	267.6	0.8
N	13,857	125	1,643	9.8	270.9	270.9	271.6	0.7
O	15,072	105	1,225	13.1	273.5	273.5	274.1	0.6
P	16,002	98	1,226	13.1	277.4	277.4	277.6	0.2
Q	17,182	101	1,240	13.0	281.5	281.5	282.3	0.8
R	17,917	90	1,219	13.2	284.2	284.2	285.1	0.9
S	18,852	123	1,712	9.4	287.9	287.9	288.9	1.0
T	19,792	85	1,089	14.8	289.2	289.2	290.2	1.0
U	20,452	112	1,550	10.4	293.6	293.6	294.3	0.7

¹Feet from confluence of Scott Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MUDDY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
MUDDY CREEK (continued)								
V	21,762 ¹	115	1,471	10.9	296.3	296.3	297.0	0.7
W	22,792 ¹	273	2,418	6.7	299.6	299.6	300.3	0.7
X	23,582 ¹	329	2,923	4.8	301.4	301.4	302.2	0.8
Y	24,040 ¹	295	2,446	5.8	302.4	302.4	303.1	0.7
Z	24,940 ¹	177	1,763	8.0	303.3	303.3	304.2	0.9
AA	25,970 ¹	166	1,621	8.7	305.5	305.5	306.1	0.6
AB	27,100 ¹	155	1,656	8.5	307.9	307.9	308.4	0.5
AC	28,230 ¹	264	2,538	5.5	310.2	310.2	310.8	0.6
AD	29,350 ¹	119	1,335	10.5	310.9	310.9	311.9	1.0
AE	29,520 ¹	118	1,745	8.1	313.3	313.3	313.8	0.5
NEILL RUN								
A	150 ²	46	162	15.7	267.1	267.1	267.1	0.0
B	1,080 ²	78	282	9.0	283.5	283.5	283.5	0.0
C	1,870 ²	57	168	15.1	294.2	294.2	294.2	0.0
D	2,720 ²	53	187	13.6	313.0	313.0	313.0	0.0
E	3,455 ²	64	181	14.1	326.6	326.6	326.6	0.0
F	4,025 ²	74	209	12.2	338.0	338.0	338.0	0.0
G	4,815 ²	116	315	8.1	350.0	350.0	350.0	0.0
H	5,615 ²	95	184	13.8	362.0	362.0	362.0	0.0

¹Feet from confluence of Scott Creek

²Feet above confluence with Fishing Creek No. 1

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MUDDY CREEK - NEILL RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NEILL RUN (continued)								
I	6,405 ¹	174	319	8.0	380.3	380.3	380.3	0.0
J	7,405 ¹	98	308	8.3	392.1	392.1	392.1	0.0
K	8,075 ¹	118	242	10.5	399.3	399.3	399.3	0.0
L	8,775 ¹	73	264	9.6	409.7	409.7	409.7	0.0
M	9,715 ¹	177	244	8.8	417.5	417.5	417.5	0.0
N	10,555 ¹	93	225	9.5	429.1	429.1	429.1	0.0
O	11,385 ¹	44	217	9.9	437.9	437.9	438.6	0.7
P	11,885 ¹	35	315	6.8	445.6	445.6	446.6	1.0
Q	12,350 ¹	55	287	7.5	446.6	446.6	447.6	1.0
R	12,850 ¹	80	348	6.2	449.8	449.8	450.6	0.8
S	14,165 ¹	75	286	7.5	458.4	458.4	459.3	0.9
T	15,035 ¹	54	218	9.9	467.9	467.9	468.3	0.4
U	16,035 ¹	113	434	5.0	476.7	476.7	477.6	0.9
V	16,935 ¹	106	926	2.3	489.5	489.5	489.5	0.0
NORTH BRANCH BERMUDIAN CREEK								
A	11,900 ²	205	880	5.3	444.2	444.2	444.8	0.6
B	13,000 ²	260	1,391	3.3	447.8	447.8	448.6	0.8
C	13,870 ²	200	797	5.8	449.1	449.1	449.5	0.4

¹Feet above confluence with Fishing Creek No. 1

²Feet above confluence with Bermudian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NEILL RUN - NORTH BRANCH BERMUDIAN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH BERMUDIAN CREEK (continued)								
D	15,910	190	963	4.8	454.3	454.3	454.9	0.6
E	16,855	173	1,172	4.0	455.8	455.8	456.7	0.9
F	17,805	225	1,377	3.4	456.7	456.7	457.7	1.0
G	18,815	194	987	4.7	457.7	457.7	458.7	1.0
H	19,256	88	1,019	3.8	464.0	464.0	464.0	0.0
I	20,260	171	1,160	3.4	464.5	464.5	464.7	0.2
J	21,220	131	862	4.5	465.5	465.5	466.0	0.5
K	22,220	105	714	5.5	467.3	467.3	468.0	0.7
L	22,845	140	942	4.1	469.5	469.5	469.9	0.4
M	23,700	111	780	5.0	470.7	470.7	471.2	0.5
N	24,775	120	857	4.5	473.7	473.7	474.4	0.7
O	25,805	141	919	4.2	475.9	475.9	476.5	0.6
P	26,760	264	1,636	2.4	477.3	477.3	478.2	0.9
Q	27,710	145	757	4.1	478.4	478.4	479.3	0.9
R	28,615	148	1,021	3.0	479.8	479.8	480.6	0.8
S	29,620	275	1,159	2.7	480.7	480.7	481.6	0.9
T	30,525	250	988	3.1	482.3	482.3	483.1	0.8
U	31,440	193	979	3.2	484.0	484.0	484.9	0.9
V	32,315	126	748	4.2	485.5	485.5	486.5	1.0
W	33,150	245	1,350	2.3	488.2	488.2	488.6	0.4
X	34,645	182	901	3.5	489.0	489.0	489.5	0.5

¹Feet above confluence with Bermudian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH BRANCH BERMUDIAN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH BERMUDIAN CREEK (continued)								
Y	36,025	132	706	4.4	490.4	490.4	491.1	0.7
Z	37,015	410	2,000	1.6	491.8	491.8	492.6	0.8
AA	37,980	104	362	8.6	493.4	493.4	493.5	0.1
AB	39,070	295	1,377	2.3	497.5	497.5	498.5	1.0
AC	40,100	380	1,475	2.1	499.2	499.2	499.8	0.6
AD	41,015	182	835	2.6	500.6	500.6	501.2	0.6
AE	42,620	135	425	5.1	504.4	504.4	504.4	0.0
AF	43,470	130	626	3.4	506.3	506.3	507.3	1.0
AG	44,470	170	622	3.5	510.8	510.8	511.2	0.4
AH	45,500	228	728	3.0	513.7	513.7	514.6	0.9
AI	46,460	225	1,020	0.9	514.5	514.5	515.4	0.9
AJ	47,155	85	246	3.7	515.2	515.2	515.7	0.5
AK	47,325	117	302	3.0	516.3	516.3	516.6	0.3
AL	48,565	120	257	3.5	522.1	522.1	522.8	0.7
AM	50,100	100	252	2.2	528.5	528.5	529.4	0.9
AN	50,730	75	139	4.1	532.2	532.2	532.4	0.2
AO	51,085	38	143	3.9	534.0	534.0	534.7	0.7
AP	51,370	30	101	5.6	536.4	536.4	536.9	0.5
AQ	51,885	23	106	5.3	538.8	538.8	539.5	0.7
AR	52,060	46	208	2.7	540.8	540.8	540.9	0.1
AS	52,740	85	317	1.8	546.2	546.2	546.3	0.1

¹Feet above confluence with Bermudian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH BRANCH BERMUDIAN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH BERMUDIAN CREEK (continued)								
AT	53,365 ¹	25	87	5.1	548.4	548.4	548.4	0.0
AU	53,990 ¹	25	90	5.0	552.2	552.2	552.6	0.4
AV	55,035 ¹	50	159	2.8	557.4	557.4	558.3	0.9
AW	56,280 ¹	22	51	6.5	564.6	564.6	564.8	0.2
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 8								
A	85 ²	35	116	6.4	457.5	453.8 ³	454.8	1.0
B	355 ²	45	180	4.1	460.0	460.0	460.0	0.0
C	705 ²	45	139	5.2	460.8	460.8	461.5	0.7
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 9								
A	220 ²	40	219	6.5	458.0	455.4 ³	455.4	0.0
B	935 ²	62	350	4.1	458.0	457.4 ³	458.2	0.8
C	1,575 ²	140	556	2.5	460.3	460.3	460.9	0.6
D	17,590 ²	35	123	4.9	516.4	516.4	517.2	0.8
E	18,970 ²	44	95	6.3	532.3	532.3	532.5	0.2

¹Feet above confluence with Bermudian Creek

²Feet above confluence with North Branch Bermudian Creek

³Elevation computed without consideration of backwater effects from North Branch Bermudian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**NORTH BRANCH BERMUDIAN CREEK -
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 8 -
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 9**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 9 (continued)								
F	19,235	42	83	7.2	535.9	535.9	535.9	0.0
G	20,180	39	130	4.6	549.5	549.5	549.9	0.4
H	21,270	39	119	5.0	564.3	564.3	564.7	0.4
I	22,325	50	131	4.6	574.9	574.9	575.1	0.2
J	23,345	40	126	4.8	586.3	586.3	586.3	0.0
K	24,315	22	67	4.4	591.6	591.6	592.2	0.6
L	24,755	32	92	3.2	594.5	594.5	594.5	0.0
M	24,885	20	94	3.1	595.1	595.1	595.1	0.0
N	25,025	43	141	2.1	597.1	597.1	597.1	0.0
O	26,080	35	142	2.1	603.5	603.5	604.2	0.7
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 15								
A	185	155	443	2.2	514.4	513.5 ²	514.5	1.0
B	1,115	136	392	2.5	517.8	517.8	518.8	1.0
C	1,555	180	383	2.5	519.4	519.4	520.3	0.9
D	2,380	47	198	4.8	525.4	525.4	525.4	0.0

¹Feet above confluence with North Branch Bermudian Creek

²Elevation computed without consideration of backwater effects from North Branch Bermudian Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 9 -
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 15**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 17								
A	210 ¹	37	122	4.3	526.8	526.8	527.8	1.0
B	810 ¹	34	89	5.9	530.5	530.5	531.1	0.6
C	1,560 ¹	87	323	1.6	536.4	536.4	536.4	0.0
D	2,150 ¹	72	180	2.9	536.7	536.7	537.2	0.5
NORTH BRANCH MUDDY CREEK								
A	16,020 ²	135	1,905	5.5	416.0	416.0	416.8	0.8
B	16,947 ²	150	1,912	5.5	416.8	416.8	417.8	1.0
C	19,582 ²	180	1,456	7.0	423.4	423.4	424.1	0.7
D	20,152 ²	135	1,551	6.6	428.0	428.0	428.8	0.8
E	20,508 ²	153	2,185	4.7	431.5	431.5	432.5	1.0
F	21,844 ²	96	1,071	9.5	432.8	432.8	433.8	1.0
G	22,095 ²	122	1,973	5.2	439.5	439.5	440.5	1.0
H	23,075 ²	160	2,078	4.9	440.6	440.6	441.6	1.0
I	23,645 ²	208	2,530	4.0	444.4	444.4	445.4	1.0
J	24,623 ²	325	3,424	3.0	447.3	447.3	448.3	1.0
K	26,923 ²	117	1,096	7.2	452.7	452.7	453.1	0.4
L	28,381 ²	69	586	13.4	457.7	457.7	457.9	0.2
M	29,762 ²	136	851	9.1	466.1	466.1	466.6	0.5
N	30,494 ²	142	1,520	5.1	472.2	472.2	473.1	0.9

¹Feet above confluence with North Branch Bermudian Creek

²Feet above confluence with Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**NORTH BRANCH BERMUDIAN CREEK TRIBUTARY 17 ·
NORTH BRANCH MUDDY CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH MUDDY CREEK (continued)								
O	33,045	240	1,717	4.1	477.2	477.2	477.9	0.7
P	33,628	221	1,561	4.5	479.3	479.3	480.2	0.9
Q	35,815	174	1,222	5.7	486.2	486.2	486.6	0.4
R	36,914	125	658	9.7	489.1	489.1	489.3	0.2
S	37,334	130	914	7.0	492.4	492.4	492.9	0.5
T	38,937	182	1,234	5.2	498.0	498.0	498.6	0.6
U	41,475	125	1,000	6.4	508.5	508.5	509.2	0.7
V	43,031	80	634	10.0	517.6	517.6	517.9	0.3
W	44,258	80	830	7.7	527.6	527.6	528.5	0.9
X	45,149	196	1,754	3.6	532.4	532.4	533.1	0.7
Y	46,465	275	1,428	3.4	535.2	535.2	536.0	0.8
Z	47,431	322	856	4.4	539.0	539.0	539.2	0.2
AA	48,266	180	562	6.7	542.5	542.5	543.0	0.5
AB	49,822	110	484	7.7	550.6	550.6	551.0	0.4
AC	51,205	185	734	5.1	559.4	559.4	560.0	0.6
AD	52,507	93	337	7.7	568.6	568.6	568.9	0.3
AE	53,496	65	303	8.6	577.8	577.8	577.9	0.1
AF	54,605	97	365	7.1	587.0	587.0	587.0	0.0
AG	55,245	60	370	7.1	591.9	591.9	592.7	0.8

¹Feet above confluence with Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH BRANCH MUDDY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH MUDDY CREEK (continued)								
AH	55,868	90	461	4.6	597.9	597.9	598.6	0.7
AI	56,939	95	255	8.2	605.6	605.6	605.6	0.0
AJ	57,840	49	232	9.1	612.3	612.3	612.7	0.4
AK	58,578	87	371	5.7	619.3	619.3	619.3	0.0
AL	58,997	175	739	2.8	624.0	624.0	624.9	0.9
AM	59,681	44	209	7.3	627.7	627.7	628.6	0.9

¹Feet above confluence with Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH BRANCH MUDDY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH MUDDY CREEK TRIBUTARY 3								
A	135	49	290	5.9	416.9	412.8 ²	412.8	0.0
B	535	22	184	9.3	417.0	417.0	418.0	1.0
C	920	40	160	10.7	424.0	424.0	424.0	0.0
D	1,395	52	172	10.0	433.6	433.6	434.0	0.4
E	2,125	54	280	6.1	440.9	440.9	441.8	0.9
F	3,165	87	952	1.8	460.6	460.6	460.6	0.0
G	3,795	87	254	6.7	462.7	462.7	463.1	0.4
H	4,445	170	758	2.3	476.2	476.2	477.2	1.0
I	5,335	67	225	7.6	493.3	493.3	493.4	0.1
J	6,220	72	241	7.1	506.9	506.9	507.5	0.6
K	6,395	35	269	6.4	512.7	512.7	513.5	0.8
L	7,055	35	146	11.7	521.4	521.4	521.4	0.0
M	7,885	32	153	11.2	543.0	543.0	543.5	0.5
N	8,035	66	416	4.1	547.0	547.0	547.9	0.9
O	8,635	33	144	11.9	558.9	558.9	559.1	0.2
P	9,410	31	140	12.2	576.6	576.6	576.6	0.0
Q	9,970	46	168	10.2	593.4	593.4	593.8	0.4
R	10,810	45	163	10.5	610.2	610.2	610.2	0.0
S	10,985	21	139	12.3	615.1	615.1	615.2	0.1

¹Feet above confluence with North Branch Muddy Creek

²Elevation computed without consideration of backwater effects from North Branch Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH BRANCH MUDDY CREEK TRIBUTARY 3

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH MUDDY CREEK TRIBUTARY 11								
A	170	70	338	5.7	542.0	542.0	542.0	0.0
B	920	65	214	9.0	547.3	547.3	548.2	0.9
C	1,820	71	222	8.7	557.2	557.2	558.1	0.9
NORTH BRANCH MUDDY CREEK TRIBUTARY 12								
A	250	109	601	2.8	563.5	563.5	564.0	0.5
B	1,350	79	203	8.3	568.8	568.8	569.4	0.6
C	2,165	78	268	6.3	578.0	578.0	578.8	0.8
D	2,765	83	332	5.1	582.7	582.7	583.7	1.0
E	3,310	83	456	3.7	592.2	592.2	593.1	0.9
F	4,310	88	215	7.8	601.1	601.1	602.0	0.9
G	5,260	108	641	2.6	613.6	613.6	614.5	0.9
H	5,430	91	514	3.3	615.0	615.0	615.6	0.6
I	6,030	93	229	7.3	616.6	616.6	617.1	0.5
J	6,550	110	293	5.7	622.0	622.0	622.9	0.9
K	7,190	69	407	4.1	632.8	632.8	633.6	0.8
L	7,640	116	441	3.8	639.1	639.1	639.9	0.8

¹Feet above confluence with North Branch Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**NORTH BRANCH MUDDY CREEK TRIBUTARY 11·
NORTH BRANCH MUDDY CREEK TRIBUTARY 12**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
NORTH BRANCH MUDDY CREEK TRIBUTARY 13								
A	850 ¹	17	32	7.9	569.4	569.4	569.4	0.0
B	1,480 ¹	24	36	7.0	580.2	580.2	580.3	0.1
C	2,120 ¹	39	46	5.6	592.4	592.4	592.4	0.0
D	2,580 ¹	19	37	7.0	598.8	598.8	599.0	0.2
E	3,720 ¹	19	45	5.7	625.2	625.2	625.2	0.0
F	4,620 ¹	20	38	6.7	649.5	649.5	649.5	0.0
G	5,650 ¹	35	45	5.7	675.7	675.7	675.7	0.0
H	6,310 ¹	27	55	2.7	689.5	689.5	689.5	0.0
OIL CREEK								
A	405 ²	152	821	6.2	463.2	461.7 ³	462.7	1.0
B	1,320 ²	134	1,313	3.9	467.4	467.4	467.6	0.2
C	2,245 ²	157	1,223	4.2	467.6	467.6	468.0	0.4
D	3,640 ²	264	1,243	4.1	468.4	468.4	469.4	1.0
E	4,880 ²	180	1,060	4.8	474.3	474.3	474.7	0.4
F	6,180 ²	192	825	6.2	475.9	475.9	476.4	0.5
G	7,405 ²	146	985	5.2	481.1	481.1	482.0	0.9

¹Feet above confluence with North Branch Muddy Creek

²Feet above confluence with Codorus Creek

³Elevation computed without consideration of backwater effects from Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**NORTH BRANCH MUDDY CREEK TRIBUTARY13-
OIL CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
OIL CREEK (continued)								
H	7,990	88	736	7.0	484.1	484.1	484.1	0.0
I	8,430	71	531	9.7	484.6	484.6	484.6	0.0
J	9,340	107	1,060	4.8	488.6	488.6	489.6	1.0
K	11,140	232	1,400	3.7	490.6	490.6	491.4	0.8
L	11,720	191	709	7.2	491.8	491.8	492.1	0.3
M	12,780	304	1,515	2.9	497.3	497.3	497.7	0.4
N	14,070	160	982	4.4	500.0	500.0	500.7	0.7
O	15,760	72	498	8.7	504.1	504.1	504.7	0.6
P	16,865	237	1,235	3.5	507.1	507.1	507.8	0.7
Q	17,430	93	955	4.6	513.5	513.5	513.5	0.0
R	18,450	263	1,795	2.4	514.3	514.3	514.9	0.6
S	19,145	295	1,564	2.8	514.4	514.4	515.2	0.8
T	20,510	233	1,512	2.9	518.2	518.2	519.2	1.0
U	21,600	383	1,548	2.8	520.5	520.5	521.2	0.7
V	22,910	261	874	3.5	523.1	523.1	523.9	0.8
W	24,325	185	571	5.4	526.3	526.3	527.1	0.8

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

OIL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
OIL CREEK (continued)								
X	25,830	60	436	7.1	532.7	532.7	532.7	0.0
Y	27,460	239	772	4.0	534.9	534.9	535.7	0.8
Z	27,730	212	645	4.8	535.5	535.5	536.3	0.8
AA	28,650	161	484	4.5	538.3	538.3	539.2	0.9
AB	30,445	79	284	7.7	544.9	544.9	545.5	0.6
AC	31,370	53	538	4.1	555.1	555.1	555.1	0.0
AD	32,190	134	736	3.0	555.4	555.4	555.7	0.3
AE	32,650	42	402	5.4	562.7	562.7	562.7	0.0
AF	33,080	60	381	5.8	562.9	562.9	562.9	0.0
AG	33,710	47	371	5.9	566.8	566.8	566.8	0.0
AH	34,765	109	281	7.8	569.6	569.6	570.5	0.9
AI	36,135	198	806	2.7	583.3	583.3	583.6	0.3
AJ	36,595	115	313	7.0	585.5	585.5	585.7	0.2
AK	37,345	95	433	5.1	591.3	591.3	591.9	0.6

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

OIL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
OTTER CREEK								
A	920 ¹	49	457	11.5	312.5	312.5	313.2	0.7
B	1,650 ¹	50	388	13.5	316.7	316.7	317.4	0.7
C	2,240 ¹	63	528	9.9	321.5	321.5	322.2	0.7
D	3,055 ¹	66	559	9.4	324.5	324.5	325.2	0.7
E	3,610 ¹	100	594	8.8	326.4	326.4	327.4	1.0
F	3,779 ¹	47	438	12.0	329.7	329.7	329.7	0.0
G	4,399 ¹	44	337	15.5	333.2	333.2	333.3	0.1
H	5,654 ¹	87	712	7.4	341.4	341.4	341.7	0.3
I	6,039 ¹	73	627	8.4	343.2	343.2	344.2	1.0
J	7,459 ¹	59	366	14.3	350.2	350.2	350.2	0.0
K	8,064 ¹	53	436	12.0	356.0	356.0	356.0	0.0
L	8,714 ¹	184	962	5.4	359.6	359.6	360.4	0.8
PARADISE CREEK								
A	3,220 ²	212	1,150	3.1	423.4	423.4	423.7	0.3
B	4,824 ²	150	877	4.1	427.4	427.4	428.3	0.9
C	5,680 ²	165	1,019	3.5	430.0	430.0	431.0	1.0
D	6,539 ²	150	980	3.3	431.7	431.7	432.7	1.0
E	7,576 ²	132	740	4.3	434.7	434.7	435.2	0.5
F	8,889 ²	118	773	4.1	439.3	439.3	439.6	0.3

¹Feet above Kline Road

²Stream distance in feet above confluence with Little Conewago Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

OTTER CREEK - PARADISE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
PARADISE CREEK (continued)								
G	10,029 ²	106	619	5.2	444.5	444.5	444.9	0.4
PIERCEVILLE RUN								
A	125 ²	230	599	3.2	551.7	549.1 ³	550.1	1.0
B	370 ²	116	470	4.0	552.6	552.6	552.6	0.0
C	1,490 ²	80	427	4.4	560.3	560.3	560.7	0.4
D	2,330 ²	97	705	2.7	567.8	567.8	568.7	0.9
E	4,275 ²	60	267	7.1	576.2	576.2	576.8	0.6
F	5,460 ²	105	519	3.4	584.0	584.0	584.0	0.0
G	6,560 ²	97	645	2.7	591.0	591.0	591.4	0.4
H	7,825 ²	51	256	6.9	595.1	595.1	595.7	0.6
I	8,865 ²	47	213	8.2	602.8	602.8	603.7	0.9
J	9,140 ²	91	716	2.2	608.4	608.4	609.1	0.7
K	10,075 ²	108	593	2.7	612.3	612.3	612.8	0.5
L	11,050 ²	34	157	9.1	618.3	618.3	618.6	0.3
M	12,685 ²	97	517	2.8	630.6	630.6	630.9	0.3
N	14,070 ²	115	448	2.8	637.1	637.1	637.2	0.1

¹Feet above Lefever Road

²Feet above confluence with Centerville Creek

³Elevation computed without consideration of backwater effects from Centerville Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PARADISE CREEK - PIERCEVILLE RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
PIERCEVILLE RUN (continued)								
O	15,445 ¹	89	515	1.8	647.5	647.5	648.0	0.5
P	16,720 ¹	80	150	6.4	651.7	651.7	652.1	0.4
Q	17,810 ¹	70	251	3.8	658.5	658.5	659.4	0.9
R	18,620 ¹	38	165	4.0	663.9	663.9	664.0	0.1
S	19,905 ¹	73	253	2.6	672.3	672.3	672.9	0.6
T	21,150 ¹	30	118	5.5	677.9	677.9	678.3	0.4
U	21,360 ¹	40	152	4.3	679.0	679.0	679.4	0.4
V	22,410 ¹	53	144	4.5	687.6	687.6	688.4	0.8
W	24,020 ¹	71	295	2.0	699.3	699.3	699.4	0.1
PINE RUN								
A	100 ²	112	407	6.3	533.4	530.7 ³	531.7	1.0
B	350 ²	49	257	9.9	533.4	532.7 ³	532.9	0.2
C	790 ²	54	386	6.6	539.9	539.9	540.5	0.6
D	1,610 ²	73	271	9.4	543.5	543.5	544.5	1.0
E	2,290 ²	133	445	5.7	549.4	549.4	550.4	1.0
F	3,050 ²	88	333	7.7	554.0	554.0	554.3	0.3
G	3,810 ²	160	510	5.0	558.9	558.9	559.9	1.0
H	4,390 ²	120	346	7.4	563.4	563.4	564.0	0.6
I	4,990 ²	114	321	8.0	569.6	569.6	569.9	0.3

¹Feet above confluence with Centerville Creek

²Feet above confluence with North Branch Muddy Creek

³Elevation computed without consideration of backwater effects from North Branch Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PIERCEVILLE RUN - PINE RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
PINE RUN (continued)								
J	5,110 ¹	132	607	4.2	571.7	571.7	572.4	0.7
K	5,850 ¹	68	251	10.2	575.5	575.5	575.6	0.1
L	6,580 ¹	124	906	2.8	586.5	586.5	586.7	0.2
PIPPINS RUN								
A	1,550 ²	116	397	2.4	411.4	411.4	411.4	0.0
B	6,150 ²	69	377	2.5	500.3	500.3	500.9	0.6
C	10,400 ²	36	143	6.7	543.7	543.7	544.7	1.0
PLUM CREEK								
A	425 ³	51	229	8.4	560.4	560.4	560.4	0.0
B	850 ³	87	431	4.4	562.9	562.9	563.6	0.7
C	1,215 ³	108	426	4.5	563.6	563.6	564.1	0.5
D	2,625 ³	120	405	4.7	573.4	573.4	573.4	0.0
E	3,050 ³	140	331	4.3	574.9	574.9	575.2	0.3

¹Feet above confluence with Plum Creek

²Feet above confluence with Yellow Breeches Creek

³Stream distance in feet above York-Adams County Boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PINE RUN - PIPPINS RUN - PLUM CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
PLUM CREEK TRIBUTARY 1								
A	525 ¹	22	65	6.6	575.4	575.4	576.4	1.0
B	1,050 ¹	70	216	2.0	581.0	581.0	581.6	0.6
C	1,415 ¹	64	228	1.9	584.1	584.1	585.1	1.0
D	1,805 ¹	48	162	2.7	587.5	587.5	588.5	1.0
E	2,190 ¹	48	114	3.8	590.6	590.6	591.6	1.0
F	2,605 ¹	26	96	4.5	596.2	596.2	597.0	0.8
G	3,005 ¹	16	45	9.6	601.6	601.6	601.7	0.1
H	3,500 ¹	14	54	8.0	610.4	610.4	610.6	0.2
I	4,160 ¹	17	46	9.4	626.0	626.0	626.1	0.1
J	4,740 ¹	11	46	9.3	634.2	634.2	635.1	0.9
K	5,265 ¹	27	172	2.5	650.6	650.6	651.4	0.8
ROCKVILLE RUN								
A	1,320 ²	90	252	4.5	520.7	520.7	521.4	0.7
B	1,465 ²	93	347	3.2	523.4	523.4	523.4	0.0
C	2,120 ²	32	141	7.6	526.1	526.1	526.9	0.8
D	2,825 ²	48	185	5.7	534.2	534.2	534.6	0.4

¹Feet above confluence with Plum Creek

²Feet above confluence with South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PLUM CREEK TRIBUTARY 1 - ROCKVILLE RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SCOTT CREEK								
A	400	44	258	9.5	219.8	213.8 ²	214.8	1.0
B	905	40	195	12.6	219.7	218.8 ²	218.8	0.0
C	1,425	49	339	7.2	226.7	226.7	226.7	0.0
D	1,915	94	429	5.6	229.0	229.0	229.7	0.7
E	2,160	51	222	11.1	231.3	231.3	231.3	0.0
F	2,510	52	351	7.0	236.1	236.1	236.1	0.0
G	3,085	42	197	12.4	238.8	238.8	238.8	0.0
H	3,875	40	203	12.1	248.0	248.0	248.1	0.1
I	4,645	39	250	6.3	264.1	264.1	264.1	0.0
J	5,635	35	139	11.3	277.9	277.9	277.9	0.0
K	6,640	32	169	9.3	293.5	293.5	293.5	0.0
L	7,720	22	119	13.3	302.7	302.7	303.3	0.6
M	8,755	43	316	5.0	322.5	322.5	322.5	0.0
N	9,535	28	129	12.2	328.8	328.8	328.8	0.0
O	9,900	31	144	10.9	335.6	335.6	336.5	0.9
P	10,345	29	228	6.9	344.7	344.7	344.7	0.0
Q	10,705	54	247	6.4	345.2	345.2	345.4	0.2
R	11,575	26	125	12.6	356.5	356.5	356.5	0.0
S	12,005	28	161	9.8	360.7	360.7	361.7	1.0
T	12,305	41	218	7.2	366.9	366.9	367.9	1.0
U	12,480	35	158	10.0	368.2	368.2	368.5	0.3

¹Feet above confluence with Muddy Creek

²Elevation computed without consideration of backwater effects from Muddy Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY YORK COUNTY, PA (ALL JURISDICTIONS)	FLOODWAY DATA
		SCOTT CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SCOTT CREEK (continued)								
V	12,790 ¹	94	718	2.2	377.6	377.6	378.5	0.9
W	13,890 ¹	35	139	11.3	385.8	385.8	385.8	0.0
X	14,595 ¹	66	284	5.5	392.6	392.6	393.6	1.0
Y	15,380 ¹	29	143	11.0	405.4	405.4	405.9	0.5
Z	15,860 ¹	52	208	7.6	410.5	410.5	411.5	1.0
AA	15,990 ¹	54	328	4.8	413.6	413.6	413.6	0.0
SHILOH TRIBUTARY								
A	1,384 ²	147	930	1.6	387.9	387.6 ³	388.5	0.9
B	2,118 ²	122	799	1.9	391.2	391.2	391.4	0.2
C	2,992 ²	100	335	4.5	394.3	394.3	394.5	0.2
D	3,351 ²	100	338	4.4	396.2	396.2	396.8	0.6
E	4,135 ²	77	443	3.4	402.5	402.5	403.2	0.7
F	4,794 ²	59	220	6.8	407.1	407.1	407.1	0.0
G	5,204 ²	80	309	4.8	412.7	412.7	413.4	0.7
H	5,317 ²	88	702	2.1	416.2	416.2	416.9	0.7
I	6,154 ²	55	248	6.0	420.4	420.4	420.9	0.5
J	7,094 ²	55	242	6.2	427.4	427.4	427.9	0.5

¹Feet above confluence with Muddy Creek

²Feet above confluence with Little Conewago Creek

³Elevation computed without consideration of backwater effects from Little Conewago Creek

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		SCOTT CREEK - SHILOH TRIBUTARY	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SLAGLE RUN								
A	395 ¹	45	244	4.7	541.2	541.2	541.9	0.7
B	1,450 ¹	100	249	4.6	543.9	543.9	544.1	0.2
C	2,260 ¹	319	501	2.3	547.2	547.2	547.6	0.4
D	3,130 ¹	123	333	3.5	552.8	552.8	553.1	0.3
E	3,762 ¹	151	581	2.0	557.3	557.3	557.6	0.3
F	4,430 ¹	137	229	5.1	558.3	558.3	558.5	0.2
G	4,600 ¹	78	163	7.1	559.4	559.4	560.0	0.6
H	4,790 ¹	115	293	3.9	561.2	561.2	561.9	0.7
I	6,062 ¹	128	326	3.5	566.2	566.2	567.0	0.8
J	6,790 ¹	76	207	5.6	571.4	571.4	572.1	0.7
K	6,905 ¹	117	270	4.3	573.1	573.1	573.9	0.8
SOUTH BRANCH CODORUS CREEK								
A	140 ²	269	3,380	5.9	384.1	384.1	385.1	1.0
B	1,905 ²	377	4,785	4.2	387.4	387.4	388.2	0.8
C	3,385 ²	377	5,681	3.5	388.7	388.7	389.6	0.9
D	3,935 ²	426	3,827	5.2	390.7	390.7	391.6	0.9

¹Feet above York - Adams County boundary

²Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SLAGLE RUN - SOUTH BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SOUTH BRANCH CODORUS CREEK (continued)								
E	5,025	525	5,308	3.7	392.5	392.5	393.4	0.9
F	5,815	476	4,653	4.3	393.4	393.4	394.3	0.9
G	6,530	545	5,842	3.4	394.5	394.5	395.4	0.9
H	6,728	600	9,192	2.2	399.5	399.5	399.5	0.0
I	7,578	570	8,132	2.4	399.8	399.8	399.8	0.0
J	8,578	515	6,567	3.0	400.2	400.2	400.3	0.1
K	10,158	544	5,736	3.5	400.8	400.8	401.0	0.2
L	10,342	577	6,692	3.0	401.0	401.0	401.3	0.3
M	11,042	457	3,836	5.2	401.2	401.2	401.5	0.3
N	12,202	343	3,967	5.0	402.7	402.7	403.5	0.8
O	12,982	448	5,028	4.0	403.7	403.7	404.6	0.9
P	13,692	500	5,728	3.5	404.4	404.4	405.4	1.0
Q	14,082	447	5,020	4.0	404.6	404.6	405.6	1.0
R	14,260	409	4,584	4.3	404.8	404.8	405.8	1.0
S	14,870	409	5,067	3.9	405.5	405.5	406.5	1.0
T	15,475	352	4,258	4.7	406.1	406.1	407.1	1.0
U	16,715	297	4,073	4.9	407.8	407.8	408.8	1.0
V	17,785	385	4,649	4.3	409.6	409.6	410.6	1.0
W	19,165	230	3,011	6.6	411.1	411.1	412.0	0.9

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SOUTH BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SOUTH BRANCH CODORUS CREEK (continued)								
X	19,785 ¹	204	2,642	7.5	412.0	412.0	412.9	0.9
Y	20,235 ¹	157	2,762	7.2	413.3	413.3	414.2	0.9
Z	20,415 ¹	275	4,603	4.3	415.4	415.4	416.3	0.9
AA	63,589 ¹	480	4,229	2.7	480.2	480.2	481.2	1.0
AB	64,831 ¹	442	3,996	2.9	483.7	483.7	484.3	0.6
AC	66,092 ¹	415	3,642	3.2	486.1	486.1	486.7	0.6
AD	68,798 ¹	497	3,456	3.3	490.3	490.3	490.8	0.5
AE	71,026 ¹	260	1,894	6.0	495.9	495.9	496.0	0.1
AF	71,864 ¹	307	2,650	4.3	501.0	501.0	501.0	0.0
AG	72,788 ¹	472	3,636	3.1	501.8	501.8	502.0	0.2
AH	75,164 ¹	317	2,249	4.9	505.1	505.1	505.7	0.6
AI	76,553 ¹	368	4,138	2.6	513.3	513.3	513.3	0.0
AJ	78,460 ¹	291	2,511	4.3	514.8	514.8	515.1	0.3
AK	80,237 ¹	252	2,311	4.5	518.2	518.2	519.0	0.8
AL	82,540 ¹	407	2,927	3.3	522.2	522.2	522.8	0.6
AM	84,228 ¹	287	2,272	4.3	526.9	526.9	527.4	0.5
AN	85,635 ¹	312	2,687	3.6	530.3	530.3	530.8	0.5
AO	88,046 ¹	197	1,321	4.7	537.3	537.3	538.3	1.0
AP	89,368 ¹	132	848	7.4	542.2	542.2	542.6	0.4

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SOUTH BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
SOUTH BRANCH CODORUS CREEK (continued)									
	AQ	90,277	170	1,082	5.8	550.3	550.3	550.8	0.5
	AR	91,739	187	1,177	5.3	553.2	553.2	553.2	0.0
	AS	92,428	118	1,010	5.2	558.8	558.8	559.2	0.4
	AT	93,705	175	1,306	4.0	566.6	566.6	567.4	0.8
	AU	95,364	121	1,028	5.1	570.2	570.2	570.9	0.7
	AV	97,271	66	338	12.1	579.4	579.4	579.5	0.1
	AW	98,716	223	724	5.6	587.6	587.6	587.8	0.2
	AX	99,489	265	1,134	3.6	593.8	593.8	594.3	0.5
	AY	100,414	273	2,114	1.9	603.6	603.6	603.7	0.1
	AZ	101,811	140	520	7.9	608.0	608.0	608.2	0.2
	BA	102,350	166	549	4.8	613.9	613.9	614.5	0.6
	BB	102,799	100	388	6.8	619.7	619.7	620.1	0.4
	BC	103,203	85	396	6.6	626.5	626.5	627.1	0.6
	BD	103,766	23	170	15.4	636.1	636.1	636.2	0.1
	BE	104,234	125	371	7.1	645.5	645.5	645.5	0.0
	BF	105,198	58	288	9.1	655.7	655.7	655.8	0.1
	BG	105,711	122	868	3.0	670.9	670.9	670.9	0.0
	BH	107,387	72	315	8.3	679.6	679.6	680.1	0.5
	BI	108,475	168	528	5.0	689.5	689.5	689.5	0.0

¹Feet above confluence with Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SOUTH BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)				
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
SOUTH BRANCH CODORUS CREEK (continued)									
	BJ	108,955 ¹	86	578	3.8	695.1	695.1	696.0	0.9
	BK	109,310 ¹	119	600	3.7	700.3	700.3	700.3	0.0
SOUTH BRANCH CODORUS CREEK TRIBUTARY A									
A	145 ²	60	338	5.8	556.9	551.9 ³	552.4	0.5	
B	640 ²	51	367	5.3	557.4	557.4	557.4	0.0	
C	1,090 ²	46	202	9.7	557.6	557.6	557.8	0.2	
D	1,580 ²	65	313	6.2	560.3	560.3	561.3	1.0	
E	2,105 ²	59	201	9.7	564.2	564.2	564.9	0.7	

¹Feet above confluence with Codorus Creek

²Feet above confluence with South Branch Codorus Creek

³Elevation computed without consideration of backwater effects from South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**SOUTH BRANCH CODORUS CREEK -
SOUTH BRANCH CODORUS CREEK TRIBUTARY A**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SOUTH BRANCH CODORUS CREEK TRIBUTARY B								
A	240 ¹	30	77	3.8	479.9	476.1 ³	476.1	0.0
B	435 ¹	25	72	4.0	479.9	478.5 ³	478.5	0.0
C	1,145 ¹	20	79	3.7	493.7	493.7	493.7	0.0
D	1,880 ¹	20	37	6.5	503.9	503.9	504.1	0.2
E	2,640 ¹	60	86	2.8	520.6	520.6	520.6	0.0
F	3,330 ¹	20	58	4.1	531.5	531.5	531.7	0.2
G	3,680 ¹	28	64	2.9	537.9	537.9	537.9	0.0
H	4,585 ¹	18	37	5.0	555.8	555.8	555.8	0.0
SOUTH BRANCH CONEWAGO CREEK								
A	760 ²	210	851	4.4	595.1	595.1	595.9	0.8
B	2,010 ²	290	1,098	3.4	599.4	599.4	600.1	0.7
C	2,097 ²	240	813	4.6	600.0	600.0	600.5	0.5
D	2,190 ²	210	1,104	3.4	602.8	602.8	602.8	0.0
E	3,315 ²	120	509	7.3	605.1	605.1	606.0	0.9
F	4,270 ²	200	852	4.4	611.0	611.0	611.7	0.7
G	4,655 ²	110	692	5.4	614.4	614.4	614.5	0.1

¹Feet above confluence with South Branch Codorus Creek

²Feet above confluence with York - Adams county boundary

³Elevation computed without consideration of backwater effects from South Branch Codorus Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**SOUTH BRANCH CODORUS CREEK TRIBUTARY B -
SOUTH BRANCH CONEWAGO CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SOUTH BRANCH CONEWAGO CREEK (continued)								
H	5,920 ¹	311	1,130	3.3	619.3	619.3	620.3	1.0
I	6,775 ¹	225	1,114	3.4	625.1	625.1	625.2	0.1
J	8,015 ¹	300	1,074	3.5	629.3	629.3	630.2	0.9
K	9,415 ¹	310	850	3.1	633.3	633.3	634.3	1.0
L	12,070 ¹	290	1,048	2.5	644.5	644.5	645.3	0.8
M	13,290 ¹	225	537	5.0	646.9	646.9	647.3	0.4
N	14,360 ¹	215	579	4.6	653.1	653.1	653.8	0.7
O	15,335 ¹	130	356	7.5	659.8	659.8	660.4	0.6
P	16,050 ¹	65	407	3.9	666.6	666.6	666.6	0.0
Q	16,995 ¹	45	180	8.8	668.3	668.3	668.6	0.3
R	18,005 ¹	102	703	2.2	676.6	676.6	676.9	0.3
SOUTH BRANCH MUDDY CREEK								
A	75 ²	233	1,095	6.3	369.2	369.2	370.2	1.0
B	1,105 ²	98	745	9.3	372.9	372.9	373.6	0.7
C	1,985 ²	167	919	7.5	376.8	376.8	377.5	0.7
D	2,965 ²	144	797	8.7	381.3	381.3	382.0	0.7

¹Feet above confluence with York - Adams county boundary

²Feet above confluence with Muddy Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**SOUTH BRANCH CONEWAGO CREEK -
SOUTH BRANCH MUDDY CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SOUTH BRANCH MUDDY CREEK (continued)								
E	3,600 ¹	57	517	13.4	385.4	385.4	385.4	0.0
F	4,330 ¹	222	1,634	4.2	388.4	388.4	389.1	0.7
G	5,555 ¹	124	873	7.9	390.2	390.2	391.2	1.0
H	6,665 ¹	149	1,103	6.3	394.9	394.9	395.2	0.3
I	7,995 ¹	201	1,094	6.3	398.2	398.2	398.6	0.4
J	9,145 ¹	165	796	8.7	401.6	401.6	402.5	0.9
K	10,275 ¹	107	637	10.8	407.8	407.8	407.9	0.1
L	11,280 ¹	363	1,873	3.7	411.7	411.7	412.7	1.0
M	12,010 ¹	224	1,578	4.4	417.6	417.6	418.1	0.5
STONY RUN NO. 1								
A	248 ²	46	330	3.7	376.0	373.0 ³	373.6	0.6
B	1,478 ²	40	185	6.6	380.7	380.7	380.8	0.1
C	2,492 ²	59	221	5.1	390.6	390.6	390.7	0.1
D	3,280 ²	37	102	7.3	399.3	399.3	399.4	0.1
E	4,009 ²	28	136	5.1	408.6	408.6	409.0	0.4
F	4,822 ²	23	116	5.9	418.9	418.9	419.0	0.1

¹Feet above confluence with Muddy Creek

²Feet above confluence with Yellow Breeches Creek

³Elevation computed without consideration of backwater effects from Yellow Breeches Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SOUTH BRANCH MUDDY CREEK - STONY RUN NO. 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
STONY RUN NO. 2								
A	541 ¹	195	1,097	3.1	412.0	408.1 ²	409.0	0.9
B	1,729 ¹	64	443	7.6	413.6	413.6	413.8	0.2
C	2,635 ¹	68	413	8.1	418.7	418.7	418.7	0.0
D	3,566 ¹	51	353	9.4	425.5	425.5	425.5	0.0
E	3,869 ¹	42	303	11.0	427.9	427.9	427.9	0.0
F	4,615 ¹	67	524	6.4	434.8	434.8	435.1	0.3
G	5,222 ¹	52	381	8.7	438.0	438.0	438.2	0.2
H	6,753 ¹	57	362	9.2	448.2	448.2	448.2	0.0
I	7,861 ¹	58	378	8.4	456.6	456.6	456.7	0.1
J	9,009 ¹	70	434	7.3	465.3	465.3	465.5	0.2
K	10,334 ¹	98	688	4.6	473.1	473.1	474.0	0.9
L	11,094 ¹	140	851	3.7	475.7	475.7	476.1	0.4
M	12,961 ¹	251	1,122	2.7	479.4	479.4	480.3	0.9
N	13,271 ¹	223	1,110	2.7	480.2	480.2	481.0	0.8
O	14,831 ¹	36	291	5.8	484.6	484.6	485.3	0.7
P	16,694 ¹	74	191	8.8	497.0	497.0	497.3	0.3
Q	27,250 ¹	31	199	6.9	564.3	564.3	564.3	0.0
R	28,875 ¹	92	271	2.7	568.6	568.6	569.3	0.7

¹Feet above confluence with Yellow Breeches Creek

²Elevation computed without consideration of backwater effects from Yellow Breeches Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY RUN NO.2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH ³ (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
STONY RUN NO. 2 TRIBUTARY 2								
A	552 ¹	55	195	3.3	566.9	566.9	567.5	0.6
B	2,211 ¹	66	168	3.2	572.9	572.9	573.1	0.2
SUSQUEHANNA RIVER								
A	21,900 ²	15 / 7,002	134,512	5.7	113.7	113.7	113.7	0.0
B	23,955 ²	11 / 6,643	127,466	6.0	114.1	114.1	114.1	0.0
C	25,929 ²	148 / 6,416	126,333	6.0	114.4	114.4	114.4	0.0
D	27,585 ²	963 / 5,502	131,656	5.8	114.8	114.8	114.8	0.0
E	29,365 ²	1,308 / 7,056	141,623	5.4	114.8	114.8	115.1	0.3
F	31,065 ²	1,086 / 6,507	129,671	5.9	115.4	115.4	115.4	0.0

¹Feet above confluence with Stony Run No. 2

³Floodway width within York County / Total floodway width

²Feet above confluence with Yellow Breeches Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY RUN NO.2 TRIBUTARY 2 - SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
G	32,165	1,011 / 5,746	109,111	7.0	115.5	115.5	115.5	0.0
H	33,475	520 / 4,674	80,842	9.4	115.8	115.8	115.8	0.0
I	34,440	389 / 3,298	45,095	16.8	116.3	116.3	116.3	0.0
J	36,040	228 / 3,916	76,259	10.0	122.7	122.7	122.9	0.2
K	36,640	210 / 3,940	78,977	9.6	123.6	123.6	123.8	0.2
L	38,050	22 / 2,799	54,126	14.0	125.2	125.2	125.4	0.2
M	39,125	34 / 2,302	43,926	17.3	128.9	128.9	129.0	0.1
N	40,050	29 / 2,011	45,558	16.7	134.7	134.7	135.1	0.4
O	41,080	28 / 1,791	46,339	16.4	139.1	139.1	139.4	0.3
P	42,310	29 / 2,224	60,221	12.6	143.4	143.4	143.7	0.3
Q	42,940	52 / 2,390	76,496	9.9	145.0	145.0	145.3	0.3
R	43,660	29 / 2,978	95,937	7.9	145.9	145.9	146.3	0.4
S	45,110	43 / 2,859	82,179	9.5	146.3	146.3	146.6	0.3
T	45,180	30 / 2,839	82,924	9.4	146.6	146.6	146.9	0.3
U	46,290	52 / 2,774	79,438	11.5	146.8	146.8	147.1	0.3
V	47,780	108 / 2,336	65,562	14.5	147.8	147.8	148.0	0.2
W	49,020	24 / 2,192	57,546	16.9	149.4	149.4	149.6	0.2
X	50,330	13 / 2,299	82,322	9.2	155.0	155.0	155.2	0.2
Y	50,395	9 / 2,409	129,353	5.7	181.8	181.8	181.8	0.0
Z	51,020	177 / 2,409	130,595	5.9	181.8	181.8	181.8	0.0
AA	52,890	131 / 2,313	117,089	6.5	181.8	181.8	181.8	0.0

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
AB	54,405	134 / 1,814	84,311	9.0	181.8	181.8	181.8	0.0
AC	56,415	189 / 1,619	77,879	9.8	182.1	182.1	182.1	0.0
AD	57,510	182 / 1,272	66,912	11.3	182.2	182.2	182.2	0.0
AE	58,885	147 / 1,438	70,202	10.8	182.8	182.8	182.8	0.0
AF	59,775	154 / 1,900	81,491	9.3	183.6	183.6	183.6	0.0
AG	60,410	137 / 2,465	88,769	8.6	184.1	184.1	184.1	0.0
AH	61,955	140 / 2,845	115,176	6.6	184.9	184.9	184.9	0.0
AI	63,995	143 / 2,733	129,979	5.8	185.3	185.3	185.3	0.0
AJ	66,000	159 / 2,891	97,298	7.8	185.4	185.4	185.4	0.0
AK	68,330	219 / 2,635	125,303	6.1	186.1	186.1	186.1	0.0
AL	69,150	232 / 2,739	108,051	7.0	186.1	186.1	186.1	0.0
AM	70,940	188 / 2,426	89,472	8.5	186.1	186.1	186.1	0.0
AN	72,200	139 / 2,283	89,232	8.5	186.4	186.4	186.4	0.0
AO	74,025	99 / 2,954	114,257	6.6	187.3	187.3	187.3	0.0
AP	75,435	94 / 2,680	106,315	7.1	187.4	187.4	187.4	0.0
AQ	76,835	78 / 3,450	112,468	6.8	187.7	187.7	187.7	0.0
AR	78,280	70 / 4,072	107,819	7.0	188.0	188.0	188.0	0.0
AS	79,775	114 / 4,851	128,010	5.9	188.5	188.5	188.5	0.0
AT	81,375	26 / 4,800	119,503	6.4	188.7	188.7	188.7	0.0
AU	82,535	114 / 5,105	151,084	5.0	189.1	189.1	189.1	0.0
AV	83,545	90 / 4,615	139,326	5.5	189.1	189.1	189.1	0.0

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
AW	85,275	125 / 3,993	123,559	6.2	189.2	189.2	189.2	0.0
AX	86,715	78 / 4,089	116,041	6.5	189.3	189.3	189.4	0.1
AY	87,995	105 / 4,197	113,521	6.7	189.5	189.5	189.6	0.1
AZ	90,670	113 / 3,478	75,936	9.8	190.2	190.2	190.3	0.1
BA	90,790	45 / 3,560	95,699	7.8	226.4	226.4	226.4	0.0
BB	93,365	43 / 4,966	119,953	6.2	226.9	226.9	226.9	0.0
BC	95,375	42 / 4,316	102,786	7.2	226.9	226.9	226.9	0.0
BD	96,810	51 / 4,045	104,091	7.1	227.0	227.0	227.0	0.0
BE	98,810	64 / 3,119	82,296	9.0	227.0	227.0	227.0	0.0
BF	100,510	52 / 3,410	96,456	7.7	227.6	227.6	227.6	0.0
BG	102,775	45 / 3,078	95,583	8.2	227.9	227.7	227.7	0.0
BH	104,395	49 / 3,160	98,505	7.6	228.7 ³	228.0	228.0	0.0
BI	105,855	32 / 3,975	104,935	7.1	231.1 ³	228.3	228.3	0.0
BJ	108,135	25 / 4,048	103,206	7.2	234.7 ³	228.4	228.4	0.0
BK	110,135	16 / 4,000	107,143	6.9	238.0 ³	228.7	228.7	0.0
BL	111,625	23 / 3,810	101,316	7.3	240.1 ³	228.7	228.7	0.0
BM	113,690	30 / 4,160	101,194	7.4	243.1 ³	228.9	228.9	0.0
BN	115,545	78 / 4,515	89,114	8.4	243.1 ³	229.0	229.0	0.0
BO	116,655	11 / 5,130	89,070	8.4	243.1 ³	229.3	229.3	0.0
BP	118,665	15 / 6,955	102,251	7.3	243.1 ³	230.3	230.3	0.0

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

³Elevation computed considering ice-jam effects

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
BQ	120,925	35 / 8,695	132,414	5.6	243.1 ³	231.2	231.2	0.0
BR	123,330	42 / 8,790	157,973	4.7	243.1 ³	231.8	231.8	0.0
BS	125,195	41 / 8,763	154,985	4.8	243.1 ³	232.0	232.0	0.0
BT	127,280	47 / 8,469	142,482	5.2	243.1 ³	232.3	232.3	0.0
BU	129,050	52 / 7,900	148,810	5.0	243.1 ³	232.6	232.6	0.0
BV	130,750	37 / 7,357	113,479	6.6	243.1 ³	232.8	232.8	0.0
BW	132,240	47 / 6,980	111,139	6.7	243.1 ³	233.4	233.4	0.0
BX	134,305	0 / 6,484	105,233	7.1	243.1 ³	234.2	234.2	0.0
BY	136,115	99 / 6,230	98,408	7.6	243.1 ³	235.1	235.1	0.0
BZ	138,275	66 / 6,382	115,892	6.4	243.1 ³	236.2	236.2	0.0
CA	139,990	45 / 6,578	106,118	7.0	243.3 ³	236.7	236.7	0.0
CB	142,235	123 / 5,669	96,472	7.7	244.0 ³	238.7	238.7	0.0
CC	143,915	110 / 4,910	70,307	10.6	244.4 ³	238.7	238.7	0.0
CD	145,905	174 / 4,952	87,422	8.5	245.2 ³	240.4	240.4	0.0
CE	147,205	21 / 5,242	91,451	8.1	245.8 ³	240.9	240.9	0.0
CF	147,285	5 / 5,242	92,094	8.1	245.9 ³	241.1	241.1	0.0
CG	149,140	25 / 4,704	80,038	9.3	245.9 ³	241.7	241.7	0.0
CH	150,200	67 / 4,572	68,171	10.9	245.9 ³	242.5	242.5	0.0
CI	150,310	69 / 4,572	71,689	10.4	245.9 ³	243.3	243.3	0.0
CJ	151,470	25 / 4,107	83,487	8.9	246.7	246.7	246.7	0.0

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

³Elevation computed considering ice-jam effects

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
CK	152,915	55 / 3,440	74,332	10.0	249.4	249.4	249.4	0.0
CL	154,590	50 / 2,514	61,099	12.2	253.0	253.0	253.0	0.0
CM	155,665	17 / 2,201	56,678	13.1	255.8	255.8	255.9	0.1
CN	156,675	12 / 2,029	68,122	10.9	258.7	258.7	258.9	0.2
CO	157,195	31 / 1,972	71,419	10.4	259.6	259.6	259.8	0.2
CP	157,710	13 / 1,977	66,697	11.2	259.9	259.9	260.1	0.2
CQ	158,860	37 / 2,063	71,234	10.4	260.7	260.7	260.9	0.2
CR	160,435	41 / 2,279	71,824	10.4	261.3	261.3	261.5	0.2
CS	162,330	24 / 2,545	81,288	9.2	262.3	262.3	262.5	0.2
CT	164,005	42 / 2,854	92,988	8.0	263.0	263.0	263.2	0.2
CU	165,885	59 / 2,860	97,294	7.6	263.5	263.5	263.7	0.2
CV	167,215	40 / 2,846	97,230	7.7	263.7	263.7	263.9	0.2
CW	168,615	47 / 2,882	96,453	7.7	264.0	264.0	264.2	0.2
CX	169,980	47 / 2,669	91,641	8.1	264.1	264.1	264.3	0.2
CY	171,195	26 / 2,340	74,966	9.9	264.1	264.1	264.3	0.2
CZ	173,025	45 / 2,195	69,143	10.8	264.6	264.6	264.8	0.2
DA	175,115	16 / 1,899	61,924	12.0	265.2	265.2	265.3	0.1
DB	177,135	14 / 1,647	60,448	12.3	266.0	266.0	266.1	0.1
DC	178,875	87 / 1,822	57,279	13.0	266.7	266.7	266.9	0.2
DD	180,700	43 / 1,713	56,912	13.1	267.9	267.9	268.1	0.2

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
DE	181,480	45 / 1,800	57,717	12.9	268.6	268.6	268.9	0.3
DF	183,980	91 / 1,965	66,627	11.2	270.6	270.6	270.9	0.3
DG	184,920	83 / 2,009	65,389	11.4	270.9	270.9	271.2	0.3
DH	186,240	237 / 2,071	62,990	11.8	271.4	271.4	271.7	0.3
DI	187,125	280 / 2,153	66,047	11.3	272.1	272.1	272.4	0.3
DJ	187,555	136 / 2,220	69,630	10.7	272.4	272.4	272.8	0.4
DK	187,655	57 / 2,220	71,218	10.5	272.9	272.9	273.5	0.6
DL	188,745	409 / 3,400	100,725	7.4	274.5	274.5	275.0	0.5
DM	190,050	79 / 3,922	121,899	6.0	275.1	275.1	275.6	0.5
DN	190,925	150 / 4,080	125,574	5.8	275.3	275.3	275.8	0.5
DO	191,275	44 / 4,045	127,876	5.7	275.4	275.4	275.9	0.5
DP	191,530	45 / 4,040	127,954	5.7	275.4	275.4	275.9	0.5
DQ	192,635	42 / 3,874	115,770	6.3	275.5	275.5	276.0	0.5
DR	193,960	79 / 4,282	124,848	5.8	275.8	275.8	276.3	0.5
DS	195,205	41 / 4,248	140,548	5.2	276.4	276.4	276.9	0.5
DT	196,320	37 / 4,375	139,161	5.2	276.6	276.6	277.1	0.5
DU	197,320	75 / 4,399	133,321	5.5	276.7	276.7	277.2	0.5
DV	198,185	344 / 4,322	129,713	5.6	276.9	276.9	277.3	0.4
DW	199,270	217 / 4,080	122,230	6.0	277.1	277.1	277.5	0.4
DX	201,345	48 / 3,520	106,403	6.9	277.5	277.5	277.8	0.3

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
DY	202,585	140 / 3,576	114,020	6.4	277.6	277.6	278.1	0.5
DZ	203,455	47 / 4,002	116,792	6.2	277.8	277.8	278.3	0.5
EA	204,705	27 / 4,065	107,705	6.8	278.0	278.0	278.5	0.5
EB	206,225	31 / 3,804	105,356	6.9	278.3	278.3	278.8	0.5
EC	207,805	28 / 3,880	122,369	6.0	278.9	278.9	279.4	0.5
ED	209,340	27 / 3,436	115,666	6.3	279.1	279.1	279.6	0.5
EE	210,470	22 / 3,332	109,389	6.7	279.2	279.2	279.7	0.5
EF	211,420	111 / 3,289	99,999	7.3	279.3	279.3	279.8	0.5
EG	212,390	54 / 2,980	95,708	7.6	279.6	279.6	280.0	0.4
EH	214,170	22 / 2,756	88,278	8.3	279.9	279.9	280.3	0.4
EI	215,900	71 / 2,266	74,783	9.8	280.1	280.1	280.5	0.4
EJ	216,625	231 / 2,280	69,040	10.7	280.2	280.2	280.6	0.4
EK	217,210	12 / 2,325	72,751	10.1	280.5	280.5	281.1	0.6
EL	219,300	10 / 2,035	52,499	13.9	286.9	286.9	286.9	0.0
EM	220,460	137 / 2,223	43,289	16.7	287.4	287.4	287.4	0.0
EN	221,170	134 / 3,377	61,682	11.8	291.0	291.0	291.2	0.2
EO	222,070	140 / 5,635	106,616	6.8	293.3	293.3	293.5	0.2
EP	222,660	158 / 6,365	101,315	7.2	293.5	293.5	293.7	0.2
EQ	222,785	165 / 6,522	105,015	6.9	293.6	293.6	293.9	0.3
ER	223,265	164 / 6,900	105,206	6.9	293.9	293.9	294.1	0.2

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
ES	224,285	171 / 7,231	142,855	5.1	294.6	294.6	294.8	0.2
ET	225,515	147 / 7,593	149,982	4.8	294.8	294.8	295.0	0.2
EU	227,195	23 / 7,296	148,539	4.9	295.1	295.1	295.3	0.2
EV	228,695	54 / 7,297	132,526	5.5	295.3	295.3	295.5	0.2
EW	228,825	45 / 7,135	147,662	4.9	295.5	295.5	295.7	0.2
EX	229,550	74 / 6,951	136,556	5.3	295.6	295.6	295.8	0.2
EY	230,225	25 / 6,841	139,402	5.2	295.7	295.7	295.9	0.2
EZ	231,125	49 / 6,929	133,926	5.4	295.8	295.8	296.0	0.2
FA	232,310	48 / 6,654	131,746	5.5	296.0	296.0	296.2	0.2
FB	233,380	170 / 7,004	125,378	5.8	296.2	296.2	296.4	0.2
FC	235,670	303 / 8,567	184,109	3.9	296.9	296.9	297.1	0.2
FD	237,570	662 / 8,004	161,493	4.5	297.0	297.0	297.2	0.2
FE	239,445	550 / 5,084	97,857	7.4	297.1	297.1	297.3	0.2
FF	240,900	656 / 4,906	96,651	7.5	297.6	297.6	297.8	0.2
FG	242,155	579 / 4,794	102,837	7.0	298.2	298.2	298.3	0.1
FH	244,885	411 / 4,302	100,116	7.0	299.1	299.1	299.8	0.7
FI	246,835	368 / 4,625	112,651	6.2	299.8	299.8	300.4	0.6
FJ	249,375	90 / 4,342	102,781	6.8	300.4	300.4	301.0	0.6

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
SUSQUEHANNA RIVER (continued)								
FK	250,096	266 / 4,214	109,007	6.4	301.5	301.5	301.0	0.5
FL	251,556	360 / 4,207	109,278	6.4	301.9	301.9	301.3	0.6
FM	253,351	411 / 4,044	104,091	6.7	302.2	302.2	301.7	0.5
FN	256,431	413 / 3,792	94,791	7.4	303.0	303.0	302.5	0.5
FO	256,885	386 / 4,344	104,566	6.7	303.2	303.2	302.8	0.4
FP	258,373	366 / 3,976	96,914	7.2	303.6	303.6	303.1	0.5
FQ	259,913	342 / 3,589	90,909	7.7	304.0	304.0	303.6	0.4
FR	261,328	398 / 3,342	82,937	8.4	304.4	304.4	304.0	0.4
FS	263,451	480 / 3,479	85,985	8.1	305.3	305.3	304.9	0.4
FT	265,613	337 / 4,273	114,029	6.1	307.0	307.0	306.1	0.9
FU	267,548	360 / 5,224	117,256	6.0	307.5	307.5	306.6	0.9
FV	268,883	356 / 5,335	118,931	5.9	307.8	307.8	306.9	0.9
FW	270,083	357 / 4,417	121,002	5.8	308.0	308.0	307.2	0.8
FX	273,013	422 / 2,719	73,473	9.5	308.1	308.1	307.4	0.7
FY	275,478	114 / 2,107	59,888	11.7	309.0	309.0	308.3	0.7
FZ	278,274	137 / 2,924	86,750	8.1	311.4	311.4	310.8	0.6
GA	280,224	242 / 3,657	91,383	7.7	312.1	312.1	311.6	0.5

¹Feet above Pennsylvania - Maryland State Boundary

²Floodway width within York County / Total floodway width

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUSQUEHANNA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
TRIBUTARY NO. 2 TO HARTMAN RUN A B C D E F G H I J K L M N								
	145	70	515	4.4	382.5	382.5	383.5	1.0
	345	75	427	5.1	382.8	382.8	383.8	1.0
	520	95	552	4.1	383.7	383.7	384.5	0.8
	730	55	314	7.3	383.9	383.9	384.8	0.9
	1,155	52	238	9.2	388.0	388.0	388.0	0.0
	1,305	54	432	5.0	393.1	393.1	393.1	0.0
	1,430	137	775	2.8	393.4	393.4	393.4	0.0
	1,710	128	571	3.8	393.5	393.5	393.5	0.0
	2,020	80	244	9.0	394.3	394.3	394.7	0.4
	2,440	91	366	5.9	398.3	398.3	399.0	0.7
	2,800	79	228	9.5	402.7	402.7	403.2	0.5
	3,280	49	233	9.5	407.7	407.7	408.7	1.0
	3,790	60	226	9.5	412.8	412.8	413.4	0.6
	4,370	81	367	5.9	416.7	416.7	417.6	0.9

¹Feet above confluence with Hartman Run

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TRIBUTARY NO. 2 TO HARTMAN RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
TYLER RUN								
A	10,575 ¹	34	233	10.9	478.6	478.6	479.6	1.0
B	11,395 ¹	105	601	4.2	497.3	497.3	497.3	0.0
C	11,974 ¹	51	583	3.5	505.7	505.7	505.7	0.0
D	13,643 ¹	98	584	3.4	519.8	519.8	520.6	0.8
E	14,909 ¹	72	311	6.5	531.6	531.6	531.6	0.0
F	16,406 ¹	224	1,358	1.5	546.3	546.3	547.3	1.0
G	17,650 ¹	51	197	10.2	556.9	556.9	556.9	0.0
H	18,100 ¹	90	977	2.1	570.0	570.0	570.5	0.5
I	19,241 ¹	73	455	4.4	582.1	582.1	582.9	0.8
J	19,791 ¹	63	431	4.7	594.4	594.4	595.2	0.8
K	20,985	88	329	6.1	607.1	607.1	607.2	0.1
WEST BRANCH CODORUS CREEK								
A	1,115 ²	470	4,010	0.3	622.6	622.6 ³	623.6	1.0
B	2,235 ²	210	203	6.1	623.5	623.5	623.6	0.1
C	2,945 ²	90	435	2.8	633.1	633.1	633.1	0.0
D	3,945 ²	80	334	3.7	635.1	635.1	636.1	1.0
E	4,960 ²	110	263	4.7	640.4	640.4	640.9	0.5
F	5,715 ²	115	477	2.6	646.4	646.4	646.7	0.3
G	7,000 ²	55	190	6.5	652.0	652.0	652.6	0.6
H	7,990 ²	70	208	6.0	659.5	659.5	660.2	0.7

¹Feet above confluence with Codorus Creek

³Elevation computed without consideration of backwater effects from Lake Marburg

²Feet above confluence with Lake Marburg

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TYLER RUN - WEST BRANCH CODORUS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST BRANCH CODORUS CREEK (continued)								
I	8,215 ¹	70	309	4.0	662.8	662.8	662.8	0.0
J	9,275 ¹	75	216	4.4	667.2	667.2	668.1	0.9
K	9,980 ¹	110	249	3.8	673.8	673.8	674.6	0.8
L	10,210 ¹	120	333	2.9	676.3	676.3	676.9	0.6
M	11,050 ¹	80	209	4.6	683.2	683.2	684.1	0.9
N	11,625 ¹	50	152	6.3	687.0	687.0	687.7	0.7
O	12,660 ¹	70	252	3.8	693.3	693.3	694.0	0.7
P	14,030 ¹	100	352	1.9	704.9	704.9	705.3	0.4
WEST BRANCH FISHERS RUN								
A	1,500 ²	52	196	3.5	508.1	508.1	508.9	0.8
B	3,600 ²	100	287	2.4	524.7	524.7	524.8	0.1
C	5,225 ²	25	71	9.6	538.5	538.5	538.6	0.1
D	7,900 ²	298	461	1.5	554.8	554.8	555.3	0.5

¹Feet above confluence with Lake Marburg

²Feet above confluence with Stony Run No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

**YORK COUNTY, PA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**WEST BRANCH CODORUS CREEK -
WEST BRANCH FISHERS RUN**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WYNTRE BROOK								
A	2,027 ¹	40	59	5.4	550.2	550.2	550.3	0.1
B	3,079 ¹	24	42	7.4	574.9	574.9	574.9	0.0
YELLOW BREECHES CREEK								
A	454 ²	159	1,999	7.8	312.1	301.9 ³	302.5	0.6
B	1,730 ²	193	2,182	7.1	312.1	307.6 ³	307.8	0.2
C	4,526 ²	337	3,563	4.3	312.1	312.1	312.8	0.7
D	6,887 ²	334	4,973	3.1	317.9	317.9	318.5	0.6
E	9,547 ²	295	4,777	3.2	321.4	321.4	322.2	0.8
F	10,340 ²	282	4,437	3.4	322.9	322.9	323.0	0.1
G	13,784 ²	324	5,121	3.0	325.2	325.2	326.0	0.8
H	17,250 ²	230	4,079	3.7	328.1	328.1	329.1	1.0
I	20,150 ²	165	2,847	5.1	331.1	331.1	332.0	0.9
J	22,301 ²	145	2,792	5.2	333.4	333.4	334.2	0.8
K	24,761 ²	430	7,099	2.0	335.7	335.7	336.6	0.9
L	27,471 ²	602	8,670	1.7	336.6	336.6	337.5	0.9
M	29,108 ²	365	5,458	2.6	337.0	337.0	338.0	1.0
N	32,829 ²	298	4,687	3.0	340.4	340.4	341.2	0.8
O	35,655 ²	508	6,969	2.0	342.5	342.5	343.4	0.9
P	40,000 ²	231	3,272	4.3	344.6	344.6	345.4	0.8
Q	40,511 ²	326	4,972	2.8	345.4	345.4	346.3	0.9

¹Feet above confluence with Tyler Run

²Feet above confluence with Susquehanna River

³Elevation computed without consideration of backwater effects from Susquehanna River

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA	
	YORK COUNTY, PA (ALL JURISDICTIONS)		WYNTRE BROOK - YELLOW BREECHES CREEK	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
YELLOW BREECHES CREEK (continued)								
R	42,018	307	4,099	3.4	347.0	347.0	347.8	0.8
S	46,995	349	4,517	3.1	350.0	350.0	350.9	0.9
T	49,572	400	4,838	2.9	352.0	352.0	352.9	0.9
U	51,877	463	5,459	2.6	353.9	353.9	354.8	0.9
V	54,880	431	5,282	2.6	356.3	356.3	357.1	0.8
W	59,022	496	5,594	2.5	360.1	360.1	361.0	0.9
X	61,898	440	5,599	2.5	363.1	363.1	363.9	0.8
Y	64,703	450	5,213	2.6	365.0	365.0	365.8	0.8
Z	67,609	420	5,023	2.7	367.0	367.0	367.9	0.9
¹ Stream distance in feet above confluence with Susquehanna River								
TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY YORK COUNTY, PA (ALL JURISDICTIONS)		FLOODWAY DATA					
			YELLOW BREECHES CREEK					

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
YELLOW BREECHES CREEK (continued)								
AA	70,863	291	3,694	3.6	369.6	369.6	370.4	0.8
AB	73,183	493	4,654	2.8	371.4	371.4	372.1	0.7
AC	75,517	508	4,898	2.7	374.4	374.4	375.2	0.8
AD	77,927	533	5,157	2.5	376.7	376.7	377.5	0.8
AE	79,628	420	4,063	3.1	378.3	378.3	379.0	0.7
AF	84,247	332	2,501	5.1	382.1	382.1	383.0	0.9
AG	89,329	260	2,306	5.5	388.2	388.2	388.9	0.7
AH	90,239	389	2,842	4.4	389.5	389.5	390.3	0.8
AI	92,897	196	2,098	5.8	393.1	393.1	393.7	0.6
AJ	94,860	204	1,983	6.2	397.2	397.2	397.4	0.2
AK	96,382	250	2,573	4.7	398.4	398.4	399.0	0.6
AL	99,561	157	1,727	7.1	403.1	403.1	403.6	0.5
AM	101,087	206	1,954	6.2	405.0	405.0	405.6	0.6
AN	103,166	316	2,936	3.7	408.6	408.6	409.1	0.5
AO	104,041	270	3,370	3.3	412.1	412.1	413.0	0.9
AP	106,185	260	2,932	3.7	413.3	413.3	414.3	1.0
¹ Stream distance in feet above confluence with Susquehanna River								
TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA					
	YORK COUNTY, PA (ALL JURISDICTIONS)		YELLOW BREECHES CREEK					

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
YELLOW BREECHES CREEK (continued)								
AQ	108,195	490	5,400	2.0	414.9	414.9	415.7	0.8
AR	111,464	270	2,706	4.0	417.5	417.5	418.3	0.8
AS	113,301	409	4,403	2.4	420.1	420.1	420.6	0.5
AT	115,791	235	2,447	4.3	422.7	422.7	423.3	0.6
AU	118,685	483	3,358	3.1	424.4	424.4	425.1	0.7
¹ Stream distance in feet above confluence with Susquehanna River								
TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY		FLOODWAY DATA					
	YORK COUNTY, PA (ALL JURISDICTIONS)		YELLOW BREECHES CREEK					

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not Applicable to this FIS Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this FIS Project.

Table 26: Summary of Coastal Transect Mapping Considerations

[Not Applicable to this FIS Project]

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including LOMAs, Letters of Map Revision Based on Fill (LOMR-Fs), LOMRs (referred to collectively as LOMCs), PMRs, and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill.” Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <http://www.fema.gov> for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision

Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

6.5.4 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <http://www.fema.gov> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the York County FIRM are listed in Table 27.

Table 27: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
09-03-1919P	2/26/2010	Unnamed Tributary To Fox Run Tributary A	42133C0301F

6.5.3 Physical Map Revisions

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

6.5.4 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA

to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.5 Community Map History

The current FIRM presents flooding information for the entire geographic area of York County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, “Community Map History.” A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or “pending” (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as PMR of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the York County FIRMs in countywide format was 9/25/2009.

Table 28: Community Map History

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Carroll, Township of	1/3/1975	1/3/1975	None	3/2/1981	TBD 9/25/2009
Chanceford, Township of	1/17/1975	1/17/1975	None	10/15/1981	TBD 9/25/2009 9/22/1999
Codorus, Township of	8/2/1974	8/2/1974	3/26/1976	7/5/1983	TBD 9/25/2009
Conewago, Township of	12/28/1973	12/28/1973	4/15/1977	3/18/1980	TBD 9/25/2009
Cross Roads, Borough of	12/13/1974	12/13/1974	None	6/1/1979	TBD 9/25/2009
Dallastown, Borough of ¹	TBD	None	None	TBD	TBD 9/25/2009
Delta, Borough of	11/22/1974	11/22/1974	None	9/1/1983	TBD 9/25/2009
Dillsburg, Borough of	3/19/1976	3/19/1976	None	9/28/1979	TBD 9/25/2009 9/30/1982
Dover, Borough of	1/31/1975	1/31/1975	None	12/19/1980	TBD 9/25/2009
Dover, Township of	2/1/1974	2/1/1974	11/12/1976	3/2/1981	TBD 9/25/2009
East Hopewell, Township of	12/27/1974	12/27/1974	None	4/15/1981	TBD 9/25/2009
East Manchester, Township of	10/19/1973	10/19/1973	1/28/1977	11/19/1980	TBD 9/25/2009
East Prospect, Borough of ¹	9/25/2009	None	None	9/25/2009	9/25/2009
Fairview, Township of	2/22/1974	2/22/1974	None	2/15/1978	TBD 9/25/2009
Fawn Grove, Borough of	1/3/1975	1/3/1975	None	6/25/1976	TBD 9/25/2009
Fawn, Township of	12/27/1974	12/27/1974	None	4/1/1981	TBD 9/25/2009

¹ No Special Flood Hazard Areas Identified

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Felton, Borough of	3/4/1977	3/4/1977	None	4/1/1981	TBD 9/25/2009 7/2/1992
Franklin, Township of	11/8/1974	11/8/1974	9/19/1980 12/10/1976 5/14/1976	1/19/1983	TBD 9/25/2009
Franklinton, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Glen Rock, Borough of	10/12/1973	10/12/1973	11/12/1976	7/16/1981	TBD 9/25/2009
Goldsboro, Borough of	12/28/1973	12/28/1973	3/11/1977	2/15/1980	TBD 9/25/2009
Hallam, Borough of	11/30/1973	11/30/1973	3/25/1977	2/15/1980	TBD 9/25/2009
Hanover, Borough of	5/20/1977	5/20/1977	4/4/1980	1/6/1982	TBD 9/25/2009
Heidelberg, Township of	1/10/1975	1/10/1975	4/4/1980 8/27/1976	9/30/1981	TBD 9/25/2009
Hellam, Township of	3/29/1974	3/29/1974	6/24/1977	3/18/1980	TBD 9/25/2009 9/22/1999
Hopewell, Township of	12/27/1974	12/27/1974	None	9/16/1981	TBD 9/25/2009
Jackson, Township of	4/4/1975	4/4/1975	None	9/30/1981	TBD 9/25/2009
Jacobus, Borough of	7/19/1974	7/19/1974	7/16/1976	9/25/2009	TBD 9/25/2009
Jefferson, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Lewisberry, Borough of	8/2/1974	8/2/1974	3/5/1976	11/17/1982	TBD 9/25/2009
Loganville, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009

¹ No Special Flood Hazard Areas Identified

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Lower Chanceford, Township of	7/26/1974	7/26/1974	5/14/1976	2/15/1980	TBD 9/25/2009
Lower Windsor, Township of	8/30/1974	8/30/1974	8/20/1976	3/2/1983	TBD 9/25/2009 9/22/1999
Manchester, Borough of	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Manchester, Township of	2/1/1974	2/1/1974	6/17/1977	12/1/1981	TBD 9/25/2009
Manheim, Township of	12/27/1974	12/27/1974	4/18/1980	4/4/1983	TBD 9/25/2009
Monaghan, Township of	11/8/1974	11/8/1974	4/16/1976	8/15/1980	TBD 9/25/2009
Mount Wolf, Borough of	9/13/1974	9/13/1974	3/5/1976	5/15/1980	TBD 9/25/2009
New Freedom, Borough of	1/31/1975	1/31/1975	None	3/2/1979	TBD 9/25/2009 1/20/1982
New Salem, Borough of	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Newberry, Township of	10/18/1974	10/18/1974	1/30/1976	7/2/1980	TBD 9/25/2009
North Codorus, Township of	2/7/1975	2/7/1975	None	10/15/1981	TBD 9/25/2009
North Hopewell, Township of	12/20/1974	12/20/1974	None	4/1/1981	TBD 9/25/2009
North York, Borough of	3/1/1974	3/1/1974	3/5/1976	5/2/1977	TBD 9/25/2009 7/2/1982
Paradise, Township of	9/14/1973	9/14/1973	7/15/1977	9/2/1981	TBD 9/25/2009
Peach Bottom, Township of	11/8/1974	11/8/1974	None	9/30/1981	TBD 9/25/2009

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Penn, Township of	5/17/1974	5/17/1974	1/30/1976 8/15/1980	10/15/1981	TBD 9/25/2009
Railroad, Borough of	8/9/1974	8/9/1974	11/12/1976	9/28/1979	TBD 9/25/2009
Red Lion, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Seven Valleys, Borough of	5/3/1974	5/3/1974	10/17/1975	9/28/1979	TBD 9/25/2009
Shrewsbury, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Shrewsbury, Township of	1/3/1975	1/3/1975	None	9/16/1981	TBD 9/25/2009
Spring Garden, Township of	5/10/1974	5/10/1974	03/05/1976	6/15/1977	TBD 9/25/2009
Spring Grove, Borough of	5/3/1974	5/3/1974	2/13/1976	8/15/1983	TBD 9/25/2009
Springettsbury, Township of	3/22/1974	3/22/1974	None	12/15/1977	TBD 9/25/2009 6/4/1996
Springfield, Township of	12/27/1974	12/27/1974	None	4/1/1981	TBD 9/25/2009
Stewartstown, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Warrington, Township of	12/27/1974	12/27/1974	12/26/1980	3/16/1983	TBD 9/25/2009
Washington, Township of	9/20/1974	9/20/1974	8/20/1976	3/16/1983	TBD 9/25/2009
Wellsville, Borough of	4/1/1977	4/1/1977	None	12/31/1982	TBD 9/25/2009
West Manchester, Township of	11/15/1974	11/15/1974	10/17/1975	6/15/1981	TBD 9/25/2009
West Manheim, Township of	12/13/1974	12/13/1974	10/31/1975	3/16/1983	TBD 9/25/2009

¹ No Special Flood Hazard Areas Identified

Table 28: Community Map History (continued)

Community Name	Initial Identification Date (First NFIP Map Published)	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
West York, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Windsor, Borough of	1/23/1974	1/23/1974	1/16/1976	11/3/1982	TBD 9/25/2009
Windsor, Township of	4/11/1975	4/11/1975	None	6/1/1983	TBD 9/25/2009
Winterstown, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009
Wrightsville, Borough of	9/14/1973	9/14/1973	1/14/1977	12/18/1979	TBD 9/25/2009 9/22/1999
Yoe, Borough of	6/28/1974	6/28/1974	8/27/1976	12/1/1982	TBD 9/25/2009
York, City of	2/1/1974	2/1/1974	None	6/15/1977	TBD 9/25/2009
York, Township of	6/3/1977	6/3/1977	None	5/17/1989	TBD 9/25/2009
York Haven, Borough of	1/23/1974	1/23/1974	3/19/1976	12/18/1979	TBD 9/25/2009
Yorkana, Borough of ¹	9/25/2009	None	None	9/25/2009	TBD 9/25/2009

¹ No Special Flood Hazard Areas Identified

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Bald Eagle Creek	10/01/1980 (Fawn), 03/30/1981 (Peach Bottom), 2009	Erdman, Anthony and Associates, Inc. (Fawn and Peach Bottom)	H-4765	October 1979 (Fawn), January 1980 (Peach Bottom)	Townships of Fawn and Peach Bottom
Barshinger Creek	10/01/1980 (North Hopewell), 05/17/1989 (York)	Erdman, Anthony and Associates, Inc. (North Hopewell) and Buchart-Horn, Inc. (York)	H-4765 (North Hopewell), EMW-85-C-1960 (York)	November 1979 (North Hopewell) January 1987 (York)	Townships of North Hopewell and York
Barshinger Creek Tributary 2	10/01/1980 (North Hopewell), 05/17/1989 (York)	Erdman, Anthony and Associates, Inc. (North Hopewell) and Buchart-Horn, Inc. (York)	H-4765 (North Hopewell) EMW-85-C-1960 (York)	November 1979 (North Hopewell) January 1987 (York)	Townships of North Hopewell and York
Beaver Creek	03/02/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Paradise
Beaver Creek Tributary A	03/02/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Paradise
Bennett Run	05/17/1982 (Lewisberry) 01*/1980 (Newberry)	Gannett, Fleming, Corddry, and Carpenter, Inc. (Lewisberry) and Susquehanna River Basin Commission (SRBC) (Newberry)	H-4820 (Lewisberry) 14-3824 (Newberry)	January 1981 (Lewisberry) July 1978 (Newberry)	Borough of Lewisberry; and Township of Newberry
Bermudian Creek	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	August 1981	Township of Washington
Buffalo Valley Run	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of North Codorus and Codorus

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Cabin Creek	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Lower Windsor
Cabin Creek Tributary No. 2	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Lower Windsor
Cabin Creek Tributary No. 5	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Lower Windsor
Canadochly Creek	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Lower Windsor
Carter Creek	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	December 1979	Township of Chanceford
Centerville Creek	01/05/1983 (Codorus) 04/16/1981 (Shrewsbury)	Gannett, Fleming, Corddry, and Carpenter, Inc. (Codorus) Erdman, Anthony and Associates, Inc. (Shrewsbury)	H-4820 (Codorus) H-4765 (Shrewsbury)	July 1981 (Codorus) January 1980 (Shrewsbury)	Townships of Codorus and Shrewsbury
Centerville Creek Tributary	01/05/1983	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Codorus
Cherry Run	01/05/1983	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Codorus

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Codorus Creek	11/*/1976 (North York) 02/15/1983 (Spring Grove) 12/*/1976 (York) 05/*/1980 (East Manchester) 03/30/1981 (Heidelberg and Jackson) 08/*/1979 (Hellam) 01/05/1983 (Codorus) 12*/ 1976 (Spring Garden) 06*/1977 (Springettsbury) 12/15/1980 (West Manchester)	SRBC (North York and York, East Manchester, Spring Garden, Springettsbury) Erdman, Anthony and Associates, Inc. (Heidelberg, Jackson, Spring Grove) Gannett, Fleming, Corddry, and Carpenter, Inc. (Codorus) Buchart-Horn, Inc. (West Manchester)	H 3496 (North York, York, Spring Garden, Springettsbury) H-3824 (East Manchester, Hellam) H-4765 (Heidelberg, Jackson) H-4820 (Codorus) H-4556 (West Manchester)	March 1980 (Spring Grove, Heidelberg, Spring Garden and Jackson) June 1978 (East Manchester) July 1978 (Hellam) July 1981 (Codorus) May 1981 (Springettsbury) March 1978 (West Manchester)	Boroughs of North York and Spring Grove; and City of York; and Townships of East Manchester, Heidelberg, Hellam, Jackson, North Codorus, Spring Garden, Springettsbury, and West Manchester
Codorus Creek Tributary A	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Manchester
Codorus Creek Tributary A1	06/01/1981	Erdman, Anthony and Associates, Inc.	H-4765	February 1980	Township of Manchester
Codorus Creek Tributary B	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Manchester
Codorus Creek Tributary C	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	March 1980	Township of North Codorus
Codorus Creek Tributary D	01/05/1983	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Codorus
Codorus Creek Tributary E	10/04/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	June 1981	Township of Manheim

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Conewago Creek	06/*/1979 (York Haven) 09/*/1979 (Conewago) 09/02/1980 (Dover) 05/*/1980 (East Manchester) 01/*/1980 (Newberry) 09/16/1982 (Warrington) 09/02/1982 (Washington)	Buchart-Horn, Inc. (York Haven, Conewago, Dover) SRBC (East Manchester, Newberry) Gannett, Fleming, Corrdry, and Carpenter, Inc. (Warrington and Washington)	H-4556 (York Haven and Conewago) H-3824 (East Manchester, Newberry) H-4820 (Warrington)	August 1978 (York Haven and Conewago) March 1978 (Dover) July 1978 (East Manchester, Newberry) June 1981 (Warrington) August 1981 (Washington)	Borough of York Haven, Townships of Conewago, Dover, East Manchester, Newberry, Warrington, Washington and York Haven
Conewago Creek Flood Channel	05/*/1980	SRBC	H-3824	July 1978	Township of East Manchester
Conewago Creek Tributary 43	09/02/1980 (Dover) 09/16/1982 (Warrington)	Buchart-Horn, Inc. (Dover) Gannett, Fleming, Corrdry, and Carpenter, Inc. (Warrington)	H-4556 (Dover) H-4820 (Warrington)	March 1978 (Dover) June 1981 (Warrington)	Townships of Dover and Warrington
Deer Creek	03/16/1981 (Hopewell and Shrewsbury)	Erdman, Anthony and Associates, Inc. (Hopewell and Shrewsbury)	H-4765 (Hopewell and Shrewsbury)	January 1980 (Hopewell and Shrewsbury)	Townships of Hopewell and Shrewsbury
Deer Creek Tributary 6	03/16/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Shrewsbury
Dogwood Run	9/25/2009	GG3, a joint venture between Gannett Fleming, Inc., and Greenhorne & O'Mara, Inc.	EMP-2003-CO-2606, Task Order No. 5A	December 2007	Township of Carroll and Franklin
East Branch Codorus Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of York and Springfield
Ebaughs Creek	03/16/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Hopewell

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Ebaughs Creek Tributary 1	03/16/1981	by Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Hopewell
Fishers Run	02/*/1980	Gilbert Associates, Inc.	H-4500	May 1978	Township of Monaghan
Fishing Creek No. 1	03/30/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Peach Bottom
Fishing Creek No. 2	04/15/1981 (Chanceford) 09/02/1982 (Lower Windsor)	Erdman, Anthony and Associates, Inc. (Chanceford) Gannett, Fleming, Corddry, and Carpenter, Inc. (Lower Windsor)	H-4765 (Chanceford) H-4820 (Lower Windsor)	December 1979 (Chanceford) July 1981 (Lower Windsor)	Townships of Chanceford and Lower Windsor
Fishing Creek No. 3	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Fairview and Newberry; and Borough of Goldsboro
Fox Run	09/*/1979 (Conewago) 09/02/1980 (Dover)	Buchart-Horn, Inc.	H-4556	August 1978 (Conewago) March 1978 (Dover)	Townships of Conewago and Dover
Fox Run Tributary 4	09/02/1980	Buchart-Horn, Inc.	H-4556	March 1978	Township of Dover
Fox Run Tributary A1	09/02/1980	Buchart-Horn, Inc.	H-4556	March 1978	Borough of Dover; and Township of Dover
Furnace Creek	08/*/1979	SRBC	H-3824	June 1978	Township of Lower Chanceford
Gitts Run	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	March 1980	Township of Penn
Hartman Run	11/*/1979 (Mount Wolf) May 1980 (East Manchester)	SRBC	H-3924	July 1978	Boroughs of Manchester, Mount Wolf; and Township of East Manchester

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Honey Run	09/02/1980 (Dover) 03/30/1981 (Jackson) 12/15/1980 (West Manchester)	Buchart-Horn, Inc (Dover and West Manchester) Erdman, Anthony and Associates, Inc. (Jackson)	H-4556 (Dover and West Manchester) H-4765 (Jackson)	March 1978 (Dover and West Manchester) March 1980 (Jackson)	Townships of Dover, Jackson and West Manchester
Inners Creek	05/17/1989	Buchart-Horn, Inc.	EMW-85-C-1960	January 1987	Township of York
Kreutz Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Hellam
Kreutz Creek Tributary D	08/*/1979 (Hallam) 08/*/1979 (Hellam)	SRBC	H-3824	July 1978	Borough of Hallam; and Township of Hellam
Kreutz Creek Tributary E	06/*/1977	SRBC	H-3496	*	Township of Springettsbury
Kreutz Creek Tributary E1	06/*/1977	SRBC	H-3496	*	Township of Springettsbury
Kreutz Creek Tributary E2	06/*/1977	SRBC	H-3496	*	Townships of Hellam and Springettsbury
Little Conewago Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Conewago, Dover Manchester, East Manchester and West Manchester
Little Conewago Creek Tributary 16	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Manchester
Little Conewago Creek Tributary 24	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Jackson
Michael Run	03/30/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Peach Bottom

*Not calculated for this FIS Project

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Mill Branch	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	December 1979	Township of Chanceford
Mill Creek	06/01/1982 (Yoe) 12*/1976 (York) 06*/1977 (Springettsbury) 12*/ 1976 (Spring Garden)	Gannett, Fleming, Corddry, and Carpenter, Inc. (yoe) SRBC (Springettsbury) SRBC (Spring Garden)	H-4820 (Yoe) H-3496 (Springettsbury) H-3496 (Spring Garden)	May 1981 (Yoe and Springettsbury) March 1980 (Spring Garden)	Borough of Yoe; and City of York; and Townships of Springettsbury, Spring Garden, York
Mill Creek Tributary 9	05/17/1989	Buchart-Horn, Inc.	EMW-85-C-1960	January 1987	Township of York
Mill Creek Tributary A	05/17/1989	Buchart-Horn, Inc.	EMW-85-C-1960	January 1987	Township of York
Mill Creek Tributary A1	05/17/1989	Buchart-Horn, Inc.	EMW-85-C-1960	January 1987	Township of York
Muddy Creek	10/01/1980 (Fawn) 08*/1979 (Lower Chanceford)	Erdman, Anthony and Associates, Inc (Fawn) SRBC (Lower Chanceford)	H-4765 (Fawn) H-3824 (Lower Chanceford)	October 1979 (Fawn) June 1978 (Lower Chanceford)	Townships of Fawn and Lower Chanceford
Neill Run	10/01/1980 (Fawn), 03/30/1981 (Peach Bottom)	Erdman, Anthony and Associates, Inc (Fawn) and Erdman, Anthony and Associates, Inc. (Peach Bottom)	H-4765	October 1979 (Fawn), January 1980 (Peach Bottom)	Townships of Fawn and Peach Bottom
North Branch Bermudian Creek	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	August 1981	Township of Washington
North Branch Bermudian Creek Tributary 15	07/19/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	*	Township of Franklin
North Branch Bermudian Creek Tributary 17	07/19/1982	Gannett, Fleming, Corddry, and Carpenter, Inc	H-4820	*	Township of Franklin

*Not calculated for this FIS Project

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
North Branch Bermudian Creek Tributary 8	09/02/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	August 1981	Township of Washington
North Branch Bermudian Creek Tributary 9	09/02/1980 (Carroll) 07/19/1982 (Franklin) 09/02/1982 (Washington)	Gilbert Associates, Inc. (Carroll) Gannett, Fleming, Corddry, and Carpenter, Inc. (Franklin and Washington)	H-4500 (Carroll) H-4820 (Franklin and Washington)	May 1978 (Carroll) August 1981 (Washington)	Townships of Carroll, Franklin and Washington
North Branch Muddy Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of East Hopewell, North Hopewell, Chanceford and Windsor; and Borough of Felton
North Branch Muddy Creek Tributary 11	07/02/1992 10/01/1980	GEO-Technical Services, Inc. (1992) Erdman, Anthony and Associates, Inc. (1980)	EMW90-R-3128 (1992) H-4765 (1980)	March 1991 December 1979	Borough of Felton
North Branch Muddy Creek Tributary 12	10/01/1980	Erdman, Anthony and Associates, Inc.	H-4765	November 1979	Township of North Hopewell
North Branch Muddy Creek Tributary 13	09/02/1980	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	May 1981	Township of Windsor
Oil Creek	03/30/1981 (Heidelberg and Jackson) 04/15/1981 (Penn)	Erdman, Anthony and Associates, Inc. (Heidelberg Jackson and Penn)	H-4765 (Heidelberg, Jackson and Penn)	March 1980 (Heidelberg and Jackson)	Townships of Heidelberg, Jackson and Penn
Otter Creek	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	December 1979	Township of Chanceford
Paradise Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Jackson

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Pierceville Run	01/05/1983	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Codorus
Pine Run	09/02/1980	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	May 1981	Township of Windsor
Pippins Run	02/*/1980	Gilbert Associates, Inc.	H-4500	May 1978	Township of Monaghan
Plum Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Penn
Plum Creek Tributary 1	04/15/1981	Erdman, Anthony and Associates, Inc.	H-4765	March 1980	Township of Penn
Rockville Run	01/05/1983	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	July 1981	Township of Codorus
Scott Creek	03/30/1983	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Borough of Delta and Township of Peach Bottom
Shiloh Tributary	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of West Manchester
Slagle Run	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Penn; and Borough of Hanover
South Branch Codorus Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Shrewsbury, North Codorus and Springfield; and Boroughs of Seven Valleys, Glen Rock and Railroad
South Branch Codorus Creek Tributary A	03/16/1981	Erdman, Anthony and Associates, Inc.	H-4765	January 1980	Township of Shrewsbury

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
South Branch Codorus Creek Tributary B	01/05/1983 (Codorus)	Gannett, Fleming, Corddry, and Carpenter, Inc. (Codorus)	H-4820 (Codorus)	July 1981 (Codorus)	Townships of Codorus and North Codorus
South Branch Conewago Creek	10/04/1982	Gannett, Fleming, Corddry, and Carpenter, Inc.	H-4820	April 1981	Township of West Manheim
South Branch Muddy Creek	10/01/1980 (Fawn) 10/15/1980 (East Hopewell) 03/16/1981 (Hopewell)	Erdman, Anthony and Associates, Inc (Fawn and East Hopewell)	H-4765	October 1979 (Fawn) November 1979 (East Hopewell) January 1980 (Hopewell)	Townships of East Hopewell, Fawn, and Hopewell
Stony Run No. 1	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Monaghan and Fairview
Stony Run No. 2	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Monaghan and Carroll
Stony Run No. 2 Tributary 2	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Township of Carroll
Susquehanna River	08/*/1979 (Goldsboro) 06/*/1979 (Wrightsville) 04/15/1981 (Chanceford) 05/*/1980 (East Manchester) 08/*/1977 (Fairview) 09/02/1982 (Lower Windsor) 01/*/1980 (Newberry) 03/30/1981 (Peach Bottom)	SRBC (Goldsboro, Wrightsville, East Manchester, Fairview, Newberry) Erdman, Anthony and Associates, Inc. (Chanceford, Peach Bottom) Gannett, Fleming, Corddry, and Carpenter, Inc. (Lower Windsor)	H-3824 (Goldsboro, Wrightsville, East Manchester, Newberry) H-4765 (Chanceford, Peach Bottom) H-3496 (Fairview) H-4820 (Lower Windsor)	July 1978 (Goldsboro, Newberry) June 1978 (Wrightsville, East Manchester) December 1979 (Chanceford) June 1975 (Fairview) July 1981 (Lower Windsor) January 1980 (Peach Bottom)	Boroughs of Goldsboro, and Wrightsville; and Townships of Chanceford, East Manchester, Fairview, Lower Windsor, Newberry and Peach Bottom

Table 29: Summary of Contracted Studies Included in this FIS Report (continued)

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tributary No. 2 to Hartman Run	11/*/1979 (Mount Wolf) 05/*/1980 (East Manchester)	SRBC	H 3924 (Mount Wolf) H-3824 (East Manchester)	July 1978	Borough of Mount Wolf; and Township of East Manchester
Tyler Run	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of York, and Spring Garden; and City of York
West Branch Codorus Creek	04/15/1981 (Penn) 09/16/1982 (West Manheim)	Erdman, Anthony and Associates, Inc (Penn) Gannett, Fleming, Corddry, and Carpenter, Inc. (West Manheim)	H-4765 (Penn) H-4820 (West Manheim)	March 1980 (Penn) April 1981 (West Manheim)	Townships of Penn and West Manheim
West Branch Fishers Run	03/ 30/1982 (Dillsburg) 09/02/1980 (Carroll)	Gannett, Fleming, Corddry, and Carpenter, Inc., (Dillsburg) Gilbert Associates, Inc. (Carroll)	H-4820 (Dillsburg) H-4500 (Carroll)	May 1981 (Dillsburg) May 1978 (Carroll)	Borough of Dillsburg; and Township of Carroll
Wyntre Brook	05/17/1989	Buchart-Horn, Inc.	EMW-85-C-1960	January 1987	Township of York
Yellow Breeches Creek	TBD	RAMPP	HSFEHQ-09-D-0369, Task Order HSFE03-11-J-0008	February 2013	Townships of Fairview, Monaghan and Carroll

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
York County, All Jurisdictions	TBD	07/31/2011	Discovery	
		08/06/2013	Flood Risk Review	
		TBD	CCO Open House	
		TBD	Resilience	
York County, All Jurisdictions	09/25/2009	12/01/2008	Final CCO	FEMA, State NFIP Coordinator, the Mapping Partner, and York County community representatives
Township of Carroll	09/02/1980	08/19/1976	Initial CCO	FEMA, this community and the study contractor
		08/16/1979	Final CCO	FEMA, this community and the study contractor
Township of Chanceford	09/22/1999	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		11/14/1980	Final CCO	FEMA, this community and the study contractor
Township of Codorus	01/05/1983	06/08/1978	Initial CCO	FEMA, this community and the study contractor
		07/26/1982	Final CCO	FEMA, this community and the study contractor
Township of Conewago	09/*/1979	06/09/1977	Initial CCO	FEMA, this community and the study contractor
		04/18/1979	Final CCO	FEMA, this community and the study contractor
Borough of Delta	03/01/1983	*	Initial CCO	FEMA, this community and the study contractor
		10/15/1982	Final CCO	FEMA, this community and the study contractor
Borough of Dillsburg	03/30/1982	06/01/1978	Initial CCO	FEMA, this community and the study contractor
		08/14/1981	Final CCO	FEMA, this community and the study contractor
Township of Dover	09/02/1980	06/09/1977	Initial CCO	FEMA, this community and the study contractor
		07/13/1979	Final CCO	FEMA, this community and the study contractor

*Data not available

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Township of East Hopewell	10/15/1980	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		05/08/1980	Final CCO	FEMA, this community and the study contractor
Township of East Manchester	05/*/1980	07/18/1975	Initial CCO	FEMA, this community and the study contractor
		04/18/1979	Final CCO	FEMA, this community and the study contractor
Township of Fairview	08/*/1977	*	Initial CCO	FEMA, this community and the study contractor
		06/17/1975	Final CCO	FEMA, this community and the study contractor
Township of Fawn	10/01/1980	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		04/10/1980	Final CCO	FEMA, this community and the study contractor
Borough of Felton	07/02/1992	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		04/10/1980	Final CCO	FEMA, this community and the study contractor
Township of Franklin	07/19/1982	06/07/1978	Initial CCO	FEMA, this community and the study contractor
		12/10/1981	Final CCO	FEMA, this community and the study contractor
Township of Glen Rock	01/16/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		07/28/1980	Final CCO	FEMA, this community and the study contractor
Borough of Goldsboro	08/*/1979	07/15/1975	Initial CCO	FEMA, this community and the study contractor
		03/8/1979	Final CCO	FEMA, this community and the study contractor
Borough of Hallam	08/*/1979	07/15/1975	Initial CCO	FEMA, this community and the study contractor
		03/08/1979	Final CCO	FEMA, this community and the study contractor
Borough of Hanover	07/16/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		04/10/1980	Final CCO	FEMA, this community and the study contractor

*Data not available

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Township of Heidelberg	03/30/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		11/05/1980	Final CCO	FEMA, this community and the study contractor
Township of Hellam	09/*/1979	07/15/1975	Initial CCO	FEMA, this community and the study contractor
		04/17/1979	Final CCO	FEMA, this community and the study contractor
Township of Hopewell	03/16/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		09/10/1980	Final CCO	FEMA, this community and the study contractor
Township of Jackson	03/30/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		11/05/1980	Final CCO	FEMA, this community and the study contractor
Borough of Lewisberry	05/17/1982	06/01/1978	Initial CCO	FEMA, this community and the study contractor
		08/14/1981	Final CCO	FEMA, this community and the study contractor
Township of Lower Chanceford	08/*/1979	07/16/1975	Initial CCO	FEMA, this community and the study contractor
		03/08/1979	Final CCO	FEMA, this community and the study contractor
Township of Lower Windsor	09/02/1982	10/09/1996	Initial CCO	FEMA, this community and the study contractor
		09/08/1998	Final CCO	FEMA, this community and the study contractor
Township of Manchester	06/01/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		09/10/1980	Final CCO	FEMA, this community and the study contractor
Township of Manheim	10/04/1982	06/08/1978	Initial CCO	FEMA, this community and the study contractor
		05/04/1982	Final CCO	FEMA, this community and the study contractor
Township of Monaghan	02/*/1980	08/19/1976	Initial CCO	FEMA, this community and the study contractor
		03/08/1979	Final CCO	FEMA, this community and the study contractor

*Data not available

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Borough of Mount Wolf	11/*/1979	07/15/1975	Initial CCO	FEMA, this community and the study contractor
		04/17/1979	Final CCO	FEMA, this community and the study contractor
Township of Newberry	01/*/1980	07/15/1975	Initial CCO	FEMA, this community and the study contractor
		07/20/1979	Final CCO	FEMA, this community and the study contractor
Borough of New Freedom	07/20/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		*	Final CCO	FEMA, this community and the study contractor
Township of North Codorus	04/15/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		11/18/1980	Final CCO	FEMA, this community and the study contractor
Township of North Hopewell	10/01/1980	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		05/08/1980	Final CCO	FEMA, this community and the study contractor
Borough of North York	11/*/1976	*	Initial CCO	FEMA, this community and the study contractor
		06/02/1975	Final CCO	FEMA, this community and the study contractor
Township of Paradise	03/02/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		09/10/1980	Final CCO	FEMA, this community and the study contractor
Township of Peach Bottom	03/30/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		09/09/1980	Final CCO	FEMA, this community and the study contractor
Township of Penn	04/15/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		11/05/1980	Final CCO	FEMA, this community and the study contractor
Township of Shrewsbury	03/16/1981	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		09/09/1980	Final CCO	FEMA, this community and the study contractor

*Data not available

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Township of Spring Garden	12/*/1976	*	Initial CCO	FEMA, this community and the study contractor
		06/02/1975	Final CCO	FEMA, this community and the study contractor
Borough of Spring Grove	02/15/1983	*	Initial CCO	FEMA, this community and the study contractor
		10/15/1982	Final CCO	FEMA, this community and the study contractor
Township of Springettsbury	06/*/1977	*	Initial CCO	FEMA, this community and the study contractor
		06/02/1975	Final CCO	FEMA, this community and the study contractor
Township of Springfield	10/01/1980	04/01/1978	Initial CCO	FEMA, this community and the study contractor
		04/10/1980	Final CCO	FEMA, this community and the study contractor
Township of Warrington	09/16/1982	06/07/1978	Initial CCO	FEMA, this community and the study contractor
		01/28/1982	Final CCO	FEMA, this community and the study contractor
Township of Washington	09/02/1982	06/07/1978	Initial CCO	FEMA, this community and the study contractor
		01/28/1982	Final CCO	FEMA, this community and the study contractor
Township of West Manchester	12/15/1980	06/07/1977	Initial CCO	FEMA, this community and the study contractor
		12/01/1978	Final CCO	FEMA, this community and the study contractor
Township of West Manheim	09/16/1982	06/08/1978	Initial CCO	FEMA, this community and the study contractor
		01/15/1982	Final CCO	FEMA, this community and the study contractor
Borough of Windsor	05/03/1982	06/08/1978	Initial CCO	FEMA, this community and the study contractor
		08/19/1981	Final CCO	FEMA, this community and the study contractor
Township of Windsor	09/02/1980	06/08/1978	Initial CCO	FEMA, this community and the study contractor
		05/05/1982	Final CCO	FEMA, this community and the study contractor

*Data not available

Table 30: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Borough of Wrightsville	06/*/1979	07/16/1975	Initial CCO	FEMA, this community and the study contractor
		12/01/1978	Final CCO	FEMA, this community and the study contractor
Borough of Wrightsville (revision)	06/*/1979	10/09/1996	Initial CCO	FEMA, this community and the study contractor
		09/08/1998	Final CCO	FEMA, this community and the study contractor
Borough of Yoe	06/01/1982	06/09/1978	Initial CCO	FEMA, this community and the study contractor
		08/19/1981	Final CCO	FEMA, this community and the study contractor
Borough of York Haven	05/17/1989	06/09/1977	Initial CCO	FEMA, this community and the study contractor
		12/01/1978	Final CCO	FEMA, this community and the study contractor
City of York	06/*/1979	*	Initial CCO	FEMA, this community and the study contractor
		06/02/1975	Final CCO	FEMA, this community and the study contractor
Township of York	05/17/1989	11/19/1984	Initial CCO	FEMA, this community and the study contractor
		06/14/1988	Final CCO	FEMA, this community and the study contractor

*Data not available

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, visit FEMA's Web site at <http://www.fema.gov>.

Table 31 is a list of the locations FIRMs for York County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

Community	Address	City	State	Zip Code
Borough of Cross Roads	Cross Roads Borough Secretary's Office, 14771 Cross Mill Road	Felton	PA	17322
Borough of Dallastown	Borough Office, 175 East Broad Street	Dallastown	PA	17313
Borough of Delta	Borough Office, 101 College Avenue	Delta	PA	17314
Borough of Dillsburg	Municipal Building, 151 South Baltimore Street	Dillsburg	PA	17019
Borough of Dover	Borough Hall, 46 Butter Road	Dover	PA	17315
Borough of East Prospect	Community Hall, 28 West Maple Street	East Prospect	PA	17317
Borough of Fawn Grove	Citizens Volunteer Fire Company, 171 South Market Street	Fawn Grove	PA	17321
Borough of Felton	Borough Office, 88 Main Street	Felton	PA	17322
Borough of Franklintown	Municipal Office, 116 South Baltimore Street	Franklintown	PA	17323
Borough of Glen Rock	Borough Building, 1 Manchester Street	Glen Rock	PA	17327
Borough of Goldsboro	Goldsboro Municipal Building, 53 North York Street	Etters	PA	17319
Borough of Hallam	Borough Building, 250 West Beaver Street	Hallam	PA	17406
Borough of Hanover	Borough Office, 44 Frederick Street	Hanover	PA	17331
Borough of Jacobus	Borough Office, 126 North Cherry Lane	Jacobus	PA	17407
Borough of Jefferson	Jefferson Borough Office, 48 Baltimore Street	Codorus	PA	17311

Table 31: Map Repositories (continued)

Community	Address	City	State	Zip Code
Borough of Lewisberry	Borough Community Center, 308 Market Street	Lewisberry	PA	17339
Borough of Loganville	Loganville Fire Hall, 16 Mill Street	Loganville	PA	17342
Borough of Manchester	Borough Hall, 225 South Main Street	Manchester	PA	17345
Borough of Mount Wolf	Borough Office, 345 Chestnut Street	Mount Wolf	PA	17347
Borough of New Freedom	Borough Office, 49 East High Street	New Freedom	PA	17349
Borough of New Salem	Secretary's Office, 105 South Main Street	New Salem	PA	17371
Borough of North York	North York Municipal Building, 350 East Sixth Avenue	York	PA	17404
Borough of Railroad	Borough Office, 2 East Main Street	Railroad	PA	17355
Borough of Red Lion	Municipal Office, 11 East Broadway	Red Lion	PA	17356
Borough of Seven Valleys	Borough Office, 9 Maple Street	Seven Valleys	PA	17360
Borough of Shrewsbury	Borough Building, 35 West Railroad Avenue	Shrewsbury	PA	17361
Borough of Spring Grove	Borough Office, 1 Campus Avenue	Spring Grove	PA	17362
Borough of Stewartstown	Borough Building, 6 North Main Street, Suite A	Stewartstown	PA	17363
Borough of Wellsville	Borough Office, 299 Main Street	Wellsville	PA	17365
Borough of West York	West York Borough Office, 1700 West Philadelphia Street	York	PA	17404
Borough of Windsor	Borough Building, 2 East Main Street	Windsor	PA	17366
Borough of Winterstown	Winterstown Borough Office, 12244 Winterstown Road	Felton	PA	17322
Borough of Wrightsville	Municipal Office, 601 Water Street	Wrightsville	PA	17368
Borough of Yoe	Borough Building, 150 North Maple Street	Yoe	PA	17313
Borough of York Haven	Borough Hall, 2 Pennsylvania Avenue, Storage Room	York Haven	PA	17370

Table 31: Map Repositories (continued)

Community	Address	City	State	Zip Code
Borough of Yorkana	Secretary's Office, 71 Main Street	Yorkana	PA	17406
City of York	Department of Public Works, 101 South George Street	York	PA	17401
Township of Carroll	Carroll Township Municipal Building, 555 Chestnut Grove Road	Dillsburg	PA	17019
Township of Chanceford	Chanceford Community Building, 51 Muddy Creek Forks Road	Broque	PA	17309
Township of Codorus	Codorus Township Building, 4631 Shaffers Church Road	Glenville	PA	17329
Township of Conewago	Conewago Township Secretary's Office, 490 Copenhagen Road	York	PA	17404
Township of Dover	Township Building, 2480 West Canal Road	Dover	PA	17315
Township of East Hopewell	East Hopewell Township Office, 8916 Hickory Road	Felton	PA	17322
Township of East Manchester	East Manchester Township Office, 5080 North Sherman Street Extension	Mount Wolf	PA	17347
Township of Fairview	Fairview Township Building, 599 Lewisberry Road	New Cumberland	PA	17070
Township of Fawn	Fawn Township Office, 245 Alum Rock Road	New Park	PA	17352
Township of Franklin	Franklin Township Building, 150 Century Lane	Dillsburg	PA	17019
Township of Heidelberg	Heidelberg Township Building, 6424 York Road	Spring Grove	PA	17362
Township of Hellam	Hellam Township Office, 44 Walnut Springs Road	York	PA	17406
Township of Hopewell	Hopewell Township Building, 3336 Bridgeview Road	Stewartstown	PA	17363
Township of Jackson	Jackson Township Municipal Building, 439 Roth's Church Road	Spring Grove	PA	17362
Township of Lower Chanceford	Lower Chanceford Township Building, 4120 Delta Road	Airville	PA	17302

Table 31: Map Repositories (continued)

Community	Address	City	State	Zip Code
Township of Lower Windsor	Lower Windsor Township Building, 2425 Craley Road	Wrightsville	PA	17368
Township of Manchester	Manchester Township Building, 3200 Farmtrail Road	York	PA	17406
Township of Manheim	Manheim Township Municipal Building, 5191 Wool Mill Road	Glenville	PA	17329
Township of Monaghan	Monaghan Township Municipal Office, 202 South York Road	Dillsburg	PA	17019
Township of Newberry	Newberry Township Building, 1915 Old Trail Road	Etters	PA	17319
Township of North Codorus	North Codorus Township Municipal Building, 1986 Stoverstown Road	Spring Grove	PA	17362
Township of North Hopewell	North Hopewell Township Building, 13081 High Point Road	Felton	PA	17322
Township of Paradise	Paradise Township Municipal Building, 82 Beaver Creek Road	Abbottstown	PA	17301
Township of Peach Bottom	Peach Bottom Township Office, 529 Broad Street Extension	Delta	PA	17314
Township of Penn	Penn Township Municipal Building, 20 Wayne Avenue	Hanover	PA	17331
Township of Shrewsbury	Shrewsbury Township Municipal Building, 11505 Susquehanna Trail South	Glen Rock	PA	17327
Township of Spring Garden	Spring Garden Township Zoning Office, 558 South Ogontz Street	York	PA	17403
Township of Springettsbury	Springettsbury Township Community Development Department, 1501 Mount Zion Road	York	PA	17402
Township of Springfield	Springfield Township Administrative Building, 9211 Susquehanna Trail South	Seven Valleys	PA	17360
Township of Warrington	Warrington Township Municipal Building, 3345 Rosstown Road	Wellsville	PA	17365
Township of Washington	Washington Township Municipal Building, 14 Creek Road	East Berlin	PA	17316

Table 31: Map Repositories (continued)

Community	Address	City	State	Zip Code
Township of West Manchester	West Manchester Township Building, 380 East Berlin Road	York	PA	17408
Township of West Manheim	West Manheim Township Office, 2412 Baltimore Pike	Hanover	PA	17331
Township of Windsor	Windsor Township Municipal Office, 1480 Windsor Road	Red Lion	PA	17356
Township of York	York Township Complex, Engineering Department, 190 Oak Street	Dallastown	PA	17313

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 32: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library Web site	http://www.fema.gov
NFIP Web site	http://www.fema.gov/business/nfip
NFHL Dataset	http://msc.fema.gov
FEMA Region III	615 Chestnut Street, 6 th Floor, Philadelphia PA 19106-4404
Other Federal Agencies	
USGS Web site	http://www.usgs.gov
Hydraulic Engineering Center website	http://www.hec.usace.army.mil

Table 32: Additional Information (continued)

State Agencies and Organizations	
State NFIP Coordinator	Daniel Fitzpatrick, CFM Department of Community & Economic Development Commonwealth Keystone Building 400 North Street, 4th Floor Harrisburg, PA 17120-0225 717-720-7445 FAX 717-783-1402 dafitzpatr@state.pa.us
State GIS Coordinator	Stacey White Office of Admin., Office for IT 1 Technology Park Harrisburg, PA 17110 Phone: (717) 783-4883 Fax: (717) 783-6995 stwhite@pa.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 33: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
	Federal Emergency Management Agency	<i>Flood Insurance Study, York County, Pennsylvania</i>		Washington, D.C.	September 25, 2009	FEMA Map Service Center http://msc.fema.gov
	U.S. Army Corps of Engineers	<i>Hydrologic Study Tropical Storm Agnes</i>		New York, NY	November 1975	http://www.hec.usace.army.mil
	U.S. Army Corps of Engineers	<i>HEC-RAS Hydraulic Reference Manual Version 4.1.0</i>		Davis, CA	June 2010	http://www.hec.usace.army.mil
	McGraw-Hill	<i>Applied Hydrology</i>	Chow, V.T., Maidment, D.R., and Mays, L.W.	New York, NY	1988	
	McGraw-Hill	<i>Open-Channel Hydraulics</i>	Chow, V.T.	New York, NY	1988	
	American Canal and Transportation Center	<i>Great Floods of Pennsylvania</i>	Shank, W.H.	York, PA	1972	
	Susquehanna River Basin Study Coordinating Committee	<i>Susquehanna River Basin Study</i>			1970	
	U.S. Department of the Interior, Geological Survey	<i>Water Resources Data for Pennsylvania, Part 1, Surface Water Records</i>		Harrisburg, PA	1961-1976	

Table 33: Bibliography and References (continued)

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, “Article,” Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
	Water Resources Bulletin No. 9	<i>Hydrologic Data of the June 1972 Flood in Pennsylvania</i>	Department of Environmental Resources, Commonwealth of Pennsylvania		1974	
	Harza Engineering Company	<i>A Study of the Ice Jam Problems at the Safe Harbor Hydroelectric Project</i>		Chicago, IL	1981	
	Safe Harbor Water Power Corporation	<i>Ice Floods on the Lower Susquehanna River, Safe Harbor, Pennsylvania, SA-3951, Report No. 461</i>		Pennsylvania	1945	