

Discovery Report

FEMA Region V

Auglaize River Watershed, Ohio

HUC 04100007



FEMA

Prepared by



Project Area Community List

Community Name			
Ohio			
Ada, City of	390251	Henry County	390776
Allen County	390758	Kalida, Village of	390471
Auglaize County	390761	Lafayette, Village of	390803
Beaverdam, Village of	390955	Latty, Village of	39X061
Broughton, Village of	39X019	Lima, City of	390006
Buckland, Village of	390816	Melrose, Village of	39X076
Cairo, Village of	390801	Mercer County	390392
Cecil, Village of	39X023	Middle Point, Village of	390841
Cloverdale, Village of	39X027	Miller City, Village of	39X079
Columbus Grove, Village of	390466	Oakwood, Village of	390437
Continental, Village of	391002	Ohio City, Village of	390869
Convoy, Village of	390550	Ottoville, Village of	390473
Cridersville, Village of	390729	Paulding County	390777
Defiance County	390143	Paulding, Village of	390438
Defiance, City of	390144	Payne, Village of	390439
Delphos, City of	390005	Putnam County	390465
Dupont, Village of	390467	Scott, Village of	390857
Elgin, Village of	39X036	Shelby County	390503
Elida, Village of	390656	Spencerville, Village of	39X129
Fort Jennings, Village of	390468	Uniopolis, Village of	39X137
Fort Shawnee, Village of	390611	Van Wert, City of	390552
Grover Hill, Village of	390436	Van Wert County	390784
Hancock County	390767	Venedocia, Village of	39X140
Hardin County	390250	Wapakoneta, City of	390023
Harrod, Village of	390956	Waynesfield, Village of	39X142
Haviland, Village of	39X049		
Indiana			
Adams County	180424	Monroeville, Town of	180498
Allen County	180302		

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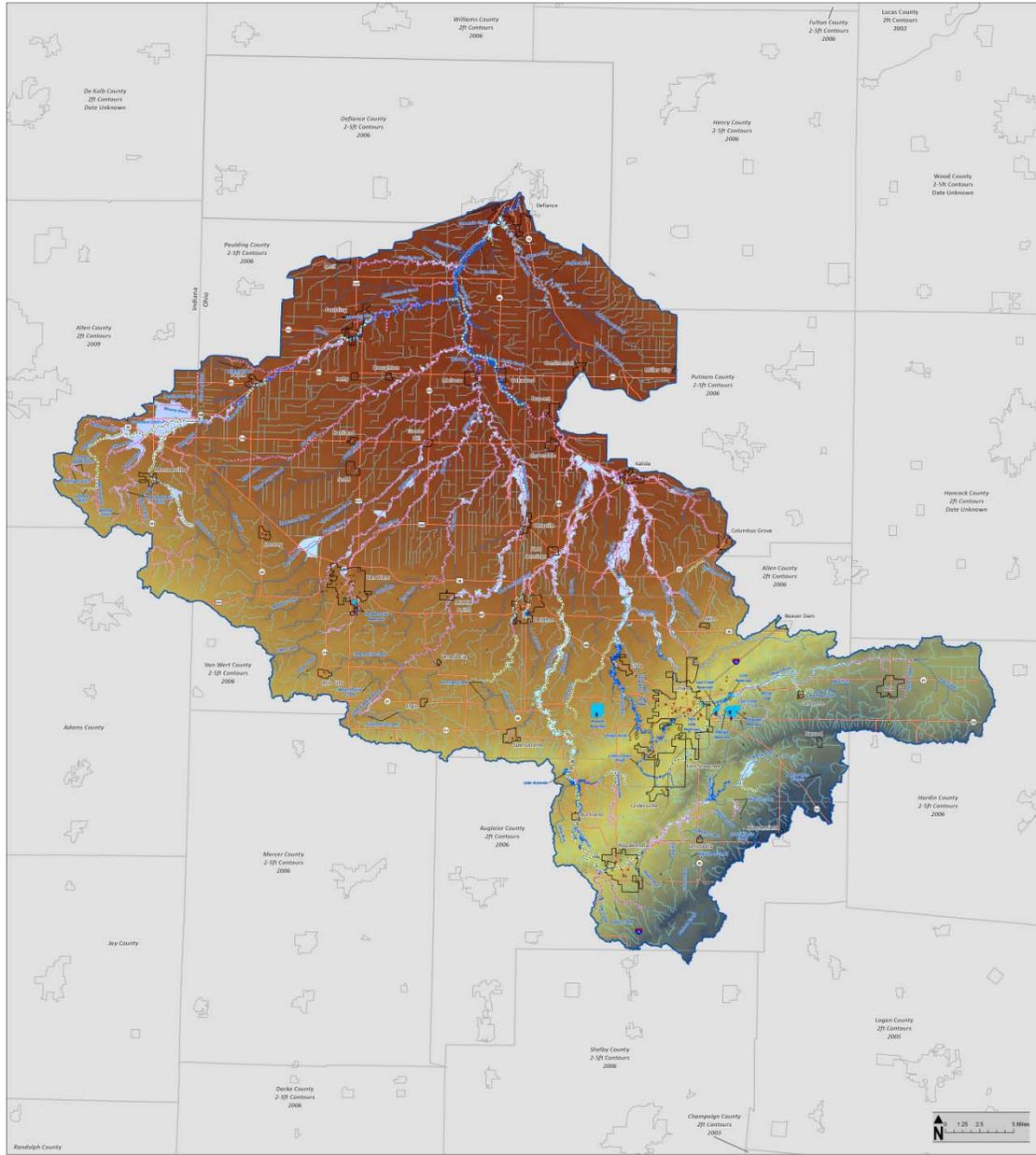
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I. Watershed Description

Region V initiated a Discovery project in November 2010 for the Auglaize River Watershed. The Discovery process involved coordination with watershed stakeholder, data collection and analysis, a meeting with stakeholders in the watershed, and development of recommendations for risk map projects based on an analysis of data and information gathered throughout the process.

The Auglaize River Watershed is located in northwestern Ohio, where the 113 mile long Auglaize River flows into the Maumee River within the City of Defiance. The principal tributaries to the Auglaize River are Flatrock Creek, Blue Creek, the Little Auglaize River and the Ottawa River. The headwaters originate in Auglaize and eastern Hardin counties and flow north through Allen, Putnam, Paulding and Defiance Counties. The watershed also drains the majority of Van Wert, along with small portions of Mercer and Henry Counties in Ohio and Allen and Adams Counties in Indiana. Table 1 below includes the National Flood Insurance Program (NFIP) participation status of each County and Community within the Auglaize River Watershed.

Discovery Map: Auglaize Watershed



MAP SYMBOLOGY		Dams		WATERSHED LOCATOR		NATIONAL FLOOD INSURANCE PROGRAM Discovery Map: Project Area															
Flood Hazard Area Source: FEMA Region V Zone A Zone AE		CNMS Data Source: FEMA Region V Validated Requires Assessment Not Valid		Classifications Class I Dam: greater than 60' or greater than 100 acre-ft storage, or health hazard, flood water damage to homes, businesses, industrial facilities (on basis of the environment), damage, surrounding lands, only access to residential areas. Class II Dam: greater than 40' or greater than 100 acre-ft storage, or health hazard, flood water damage to homes, businesses, industrial facilities (on basis of the environment), damage, surrounding lands, only access to residential areas. Class III Dam: greater than 20' or greater than 10 acre-ft, or dams to be taken non-structural measures, food crops, agricultural crops and livestock.				AUGLAIZE WATERSHED, OHIO <table border="1"> <tr> <td>Drainage Area (sq. mi.)</td> <td>1,666</td> </tr> <tr> <td>Total Streams (mi.)</td> <td>3,213</td> </tr> <tr> <td>Studied Streams (mi.)</td> <td>730</td> </tr> <tr> <td>Detailed Streams (mi.)</td> <td>195</td> </tr> <tr> <td>Approximate Streams (mi.)</td> <td>635</td> </tr> <tr> <td>Population</td> <td>339,654</td> </tr> </table>		Drainage Area (sq. mi.)	1,666	Total Streams (mi.)	3,213	Studied Streams (mi.)	730	Detailed Streams (mi.)	195	Approximate Streams (mi.)	635	Population	339,654
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Population	339,654																				
USGS Gages Levees Interstates Major Roads Streams / Rivers		HUC8 Watershed Boundary HUC10 Watershed Boundary Lakes Municipal Boundaries Counties				 HUC-8 Code 04100007 RELEASE DATE 5/4/2011															

Figure 1: Project Area Map

Table 1. NFIP Participation Status

County	Community	Participating?
Adams, Indiana	Adams County	Yes
	Monroeville	Yes
Allen, Indiana	Allen County	Yes
Allen, Ohio	Allen County	Yes
	Beaverdam	No
	Cairo	No
	Delphos	Yes
	Elida	Yes
	Fort Shawnee	Yes
	Harrod	No
	Lafayette	No
	Lima	Yes
Spencerville	No	
Auglaize, Ohio	Auglaize County	Yes
	Buckland	Yes
	Cridersville	No
	Uniopolis	No
	Wapakoneta	Yes
Waynesfield	No	
Defiance, Ohio	Defiance County	Yes
	Defiance	Yes
Hancock, Ohio	Hancock County	Yes

County	Community	Participating?
Hardin, Ohio	Hardin County	Yes
	Ada	No
	Kenton	Yes
Henry, Ohio	Henry County	Yes
Mercer, Ohio	Mercer County	Yes
Paulding, Ohio	Paulding County	Yes
	Broughton	No
	Cecil	No
	Grover Hill	Yes
	Haviland	No
	Melrose	No
	Oakwood	Yes
	Paulding	Yes
	Payne	Yes
	Putnam, Ohio	Putnam County
Cloverdale		No
Columbus Grove		No
Continental		No
Dupont		No
Fort Jennings		Yes
Kalida		Yes
Miller City		No
Ottoville		Yes
Shelby, Ohio		Shelby County
Van Wert, Ohio	Van Wert County	Yes
	Convoy	Yes
	Middle Point	Yes
	Ohio City	Yes
	Scott	Yes
	Van Wert	Yes
	Venedocia	No

II. Project Description and Methodology

Discovery is the process of data collection, including information exchange between all governmental levels of stakeholders, spatial data presentation, and cooperative discussion with stakeholders to better understand the area, decide whether a flood risk project is appropriate, and if so, to collaborate on the project planning in detail. At this time, Discovery processes and requirements are still being defined; however, draft guidance is available from the draft *Appendix I – Discovery (fall 2010)*, the draft *Meetings Guidance for FEMA Personnel (October 2010)* and the *FY11 Discovery, Statement of Priorities (January 2011)*. In addition, there are several draft tools and templates at various stages of completion that were used to support the effort.

Region V initiated a Discovery project in February 2011 for the Auglaize Watershed. The Discovery process involved coordination with watershed stakeholders, data collection and analysis, a meeting with stakeholders in the watershed, and development of recommendations for Risk MAP projects based on an analysis of data and information gathered throughout the process.

The initial phase in the Discovery process was establishing a Project Team made up of local, state, and federal agencies. The Project Team for the Auglaize Watershed included representatives from:

At the outset of the Discovery process, a Project Team was established. The Project Team for the Auglaize River Watershed included representatives from:

- FEMA Region V, Risk Analysis Branch
- FEMA Region V, Floodplain Management and Insurance Branch
- FEMA Region V, Hazard Mitigation Assistance Branch
- Ohio Department of Natural Resources (ODNR)
- Ohio Emergency Management Agency (OEMA)
- STARR Project Manager

Project Team contact information are provided in Appendix A. The Project Team worked together to compile the stakeholder list for the Auglaize watershed. Discovery Meeting invitations and stakeholder contact list are presented in Appendix B.

STARR coordinated with community officials and other watershed stakeholders through written invitations, phone calls and follow-up emails. The coordination included giving community officials information about the Discovery process. Communities were asked to identify “Areas of Concern” which could be addressed during the Discovery Meeting.

The second phase of the Discovery Project was the collection of relevant tabular and spatial data for all the communities within the watershed. The data was collected through online resources, Federal and State sources, and interviews with cooperating communities. The collected data was used to evaluate both previous and current flooding concerns, while

determining the vital areas requiring mapping needs. Section III., Data Analysis, provides a more in-depth look at the collected data.

The third phase was to hold watershed-wide Discovery Meetings and facilitate discussion and data analysis of study needs, mitigation project needs, desired compliance support, and local flood risk awareness efforts. Two (2) watershed-wide Discovery Meetings were held on May 5, 2011 in Lima, Ohio and Paulding, Ohio. The discussion was stimulated using the Discovery Geodatabase display of relevant data. Attendees, including all affected communities and selected other stakeholders, cooperatively identified possible solutions for the Areas and Points of Concern shown on the Discovery Meeting Maps. Solutions included recommendations of floodplain studies, mitigation projects, compliance issues, and ideas on how to improve the local flood risk communication programs.

Copies of the Discovery Meeting Presentations, Sign in sheets, Handouts, Meeting Notes and Meeting Feedback Forms are presented in Appendices, D, E, F and G, respectively.

The fourth phase of the Discovery effort involved an analysis of the data and information collected and discussed at the meeting, and recommendations as to the future relationship and activities between FEMA and the watershed communities. The Final Discovery Map, presented in Appendix H, indicates desired study areas and mitigation project locations, and the Discovery Report documents the results of data collection and conversation.

III. Data Analysis

Discovery data collection entailed a massive collection of tabular and spatial data for all stakeholder communities from Federal, State and Local sources. A list of the data collected, the deliverable or product in which the data are included, and the source of the data is presented in Table 2. In addition, Data Analysis is divided between two sections: one section listing the data that can be used for Risk MAP products (regulatory and non-regulatory) and, one section listing the other data and information that helped the Project Team to form a more holistic understanding of this watershed.

Table 2. Data Collection for Auglaize Watershed

Data Types	Deliverable/ Product	Source
Insurance Policies	Community Fact Sheet	Community Information System (CIS)
Mitigation Plans Status	Community Fact Sheet	FEMA Regional Office
Mitigation Projects	Community Fact Sheet	Data.gov: FEMA Hazard Mitigation Program Summary
Other Hazard Plans	Community Fact Sheet	Local websites, Community Interview
Repetitive Loss	Community Fact Sheet	Community Information System (CIS)
Zone B, C, and X Claims	Community Fact Sheet	Community Information System (CIS)
Letter of Map Change (LOMCs)	Community Fact Sheet (known clusters on Discovery)	Community Information System (CIS), Community Interview
Declared Disasters	Community Fact Sheets	Data.gov: FEMA Disaster Declarations Summary
Hazards	Community Fact Sheets	Community Information System (CIS)
Past flood claims and repetitive loss properties	Community Fact Sheet	FEMA R5 and/or ODNR
HUC-8 Watershed	Discovery Map	USGS National Hydrography Dataset (NHD)
HUC-12 Watersheds	Discovery Map	National Resource Conservation Service (NRCS)
Jurisdictional Boundaries	Discovery Map	FEMA and/or ODNR
Tribal land boundaries	Discovery Map	US Census Bureau and/or USGS National Atlas
State lands	Discovery Map	Ohio department of Natural Resources (ODNR)
Federal lands	Discovery Map	USGS National Atlas
Transportation Major and Minor	Discovery Map	LBRS and FEMA
Stream lines	Discovery Map	National Hydrography Dataset (NHD) and FEMA
Protected Areas (USFWS)	Discovery Map	U.S. Fish and Wildlife Service (USFWS)
Study Needs	Discovery Map	Coordinated Needs Management System (CNMS)
Topographic data	Discovery Map	Ohio Statewide Imagery Program (OSIP)
HAZUS - Average Annualized Loss (AAL)	Discovery Map	PBS&J
Community or Tribal risk assessment data	Discovery Map	HAZUS
Local mitigation plans	Discovery Map	HAZUS

State mitigation plans	Discovery Map	ODPS - Ohio Emergency Management Agency (OEMA)
National and Regional flood control structures	Discovery Map	USACE
Regional flood control structures	Discovery Map	Ohio department of Natural Resources (ODNR)
Stream Gauges	Discovery Map	U.S. Geological Survey (USGS)
Flooded Structures	Discovery Map	Ohio department of Natural Resources (ODNR)
Effective study data	Discovery Map	FEMA's Regional Flood Hazard Layer (RFHL)
Orthophotography	Discovery Map	Ohio Statewide Imagery Program (OSIP)
Contacts	Excel spreadsheet	Local websites, State/FEMA updates

i. Data that can be used for Flood Risk Products

Topographic and Imagery Data

As shown on the Final Discovery Map, LiDAR elevation data and digital orthophotography is available for the project area provided by the Ohio Geographically Referenced Information Program (OGRIP), as part of the Ohio Statewide Imagery Program (OSIP). The goal of OSIP was to develop and maintain a seamless statewide base map. OSIP is an initiative partnered through several State Agencies (i.e. ODOT, ODNR) through OGRIP. Data from this project forms the foundation of the Statewide base map, and was developed primarily to support multi-use applications, including homeland security, emergency management, economic development, and the business of government. The digital orthophotography consists of MrSID Images produced at 1-foot pixel resolution at a 30:1 compression ratio. The LiDAR elevation data consists of Digital Elevation Model (DEM) raster tiles acquired to meet +/- 1-foot vertical accuracy. This is suitable for rectification of digital orthophotography and for the creation of 2- and 5-foot contours (with the addition of 3D compiled breaklines). OSIP products within the Auglaize River Watershed were collected during the months of March and April (leaf-off conditions) in 2007.

USGS Gages

STARR has identified several USGS stream gages in the watershed. The locations of the gages are shown on the Discovery Map and a summary is presented in Table 3.

Table 3. USGS Gages

Gage Number	Station Name and Location	Years of Record (Peaks)
04185771	Auglaize River near Cridersville OH	8
04185945	Auglaize River tributary near Spencerville OH	10
04186500	Auglaize River near Fort Jennings OH	84
04186800	King Run near Harrod OH	21
04187100	Ottawa River at Lima OH	11
04187500	Ottawa River at Allentown OH	52
04187945	Rattlesnake Creek near Cairo OH	10
04190350	Little Auglaize River tributary at Ottoville OH	10
04190500	Roller Creek at Ohio City OH	31
04191207	Blue Creek near Latty OH	8
04191480	Beetree Run near Junction OH	11
04191500	Auglaize River near Defiance OH	96

Average Annualized Loss (AAL) Data

FEMA has conducted a Level 1 Hazus flood analysis to determine average annualized losses (AAL) for the project area. This analysis was based on USGS 30-meter DEM data and Hazus software default inventory data. The Hazus riverine hydrology analysis used default USGS regression equations to estimate the peak flows for selected return periods and the USGS topographic data to conduct normal depth calculations for flood depth grids. The loss estimation for the AAL data was then conducted to produce loss calculations at the U.S. census block level.

The AAL data is symbolized on the Discovery Map as varying levels of risk. During the Discovery meeting, the Level 1 analysis results were validated by stakeholders to identify potential sites for Refined Analyses.

ii. Other Data and Information

Mitigation Plans/Status, Mitigation Projects

Hazard Mitigation Plans (HMPs) are prepared to assist communities to reduce their risk to natural hazard events. The plans are used to develop strategies for risk reduction and to serve as a guide for all mitigation activities in the given county or community. The relevant HMPs obtained and reviewed for this Discovery Project are presented in Table 4.

Table 4. Hazard Mitigation Plan Status

County/Community	Hazus	Hazard Mitigation Plan	Issue Date	Expiration Date
Allen County	N	Y	2008	2013
Auglaize County	N	Y	2008	2013
Defiance County	N	Y	2006	2011
Hancock County	N	Y	2007	2012
Hardin County	N	Y	2006	2011
Henry County	N	Y	2005	2010
Mercer County	N	Y	2006	2011
Paulding County	N	Y	2007	2012
Putnam County	N	Y	2007	2012
Shelby County	N	Y	2006	2011
Van Wert County	N	Y	2007	2012

Critical facilities are the facilities that can impact the delivery of vital services, cause greater damages to other sectors of your community, or put special populations at risk. The assessment of the flood risk posed to critical facilities within the watershed is an important aspect of the HMPs. Critical facilities that are located within the 1% annual floodplain were quantified and identified as at-risk structures. The exact number of critical facilities that are considered at-risk is limited by the general nature of the detail presented in the HMPs. The number critical facilities estimated to be within the 1% annual chance floodplain was determined by rectifying each HMP's Hazard Map. However, the risk of flood damage is limited by the detail and accuracy of the most recent flood map. An estimated total of thirteen (13) critical facilities within the watershed are considered at-risk and should be identified as an area of mitigation interest.

A repetitive loss structure is a term associated with the National Flood Insurance Program (NFIP). For Flood Mitigation Assistance (FMA) program purposes, a repetitive loss structure is one that is covered by a flood insurance contract under the NFIP, that has suffered flood damage on two or more occasions over a 10-year period, ending on the date when a second claim is made, in which the cost to repair the flood damage, on average, equals or exceeds 25% of the market-value of the structure at the time of each flood loss event. In terms of the Community Rating System (CRS) of the NFIP, a repetitive loss property is any property, which the NFIP has paid two or more flood claims of \$1,000 or more, in any given 10-year period since 1978. A repetitive loss structure is important to the NFIP, since structures that flood frequently put a strain on the flood insurance fund. It should also be important to a community because of the disruption and threat to residents' lives by the continual flooding.

Specific details regarding repetitive loss structures within the floodplain were not made available in the HMPs. The locations of repetitive loss structures presented on the

Discovery Map were determined by rectifying HMP's Hazard Maps. The exact locations and numbers of repetitive loss structures have to be used with caution due to the lack of detail in the HMPs and Hazard Maps. Areas that have suffered multiple repetitive losses are some of the most important areas of mitigation interest. The total number of repetitive loss structures within the watershed is 120.

Numerous dams and levees exist within the watershed, but are not mentioned in the HMPs as flood control structures. According to the ODNR database, eight (8) Class I dams are within the watershed and owned/operated by state or federal agencies. None of these flood control structures are considered as an area of mitigation interest.

One of the most consistent focus of each county's individual HMP is the overall goals. The goal for each county's HMP include:

- Educate the citizens of each county to increase awareness of flooding and where to seek safety during flood events
- Provide adequate shelters where citizens can seek safety from severe weather and flooding
- Improve the warning systems and radio communications throughout the county
- Expedite the clean up process through coordination and equipment acquisition
- Update countywide NFIP maps
- Purchase or flood proof repetitive loss structures
- Develop map of infrastructure concerns

Some of the county's/community's HMPs included the locations and number of repetitive loss structures while other plans left this information out. This inconsistency in information holds true with the location and number of critical facilities found within the 1-percent-annual-chance floodplain.

Coordinated Needs Management Strategy (CNMS) and NFIP Mapping Study Needs

Analysis of the CNMS data for the Auglaize Watershed is complete. Analyzed studies have been identified as "VALID" or "INVALID". The current CNMS geospatial data is presented on the Final Discover Map.

Socio-Economic Analysis

Land use within the Auglaize River Watershed is mostly agricultural. Approximately 340 thousand residents live within the Auglaize River Watershed (2010 Census). The median age in the watershed is in the late 30's, and around 13% of the population over 65 years old. Between 3-6% are non-English speakers, and less than 1% are Native American. Approximately 87% of the population graduated high school, and about 22% have a college degree. Around 68% of residents over the age of 16 that desired employment were working, with a median income between \$26,000 and \$34,000 annually. The top three industries employing residents include:

- Manufacturing
- Educational, health, and social services
- Retail trade.

Community Rating System (CRS)

Allen County, Indiana is the only community in the Auglaize River watershed that participates in the CRS.

Levees

No levees have been identified within the Auglaize River watershed within FEMA's MLI database.

Floodplain Management/CAVs

Based on information provided by ODNR, Putnam County has an open CAV.

Regulatory Mapping

A number of communities within the Auglaize River Watershed have had recent county-wide map updates as part of FEMA's Map Modernization Program. The effective dates of the most recent county-wide projects are presented on the Discovery Map and below in Table 5. The effective data is a combination of both detailed and approximate analysis with varying vintage dates. Based on these dates alone, new studies should be considered.

Table 5. Map Modernization Activity

County	Status	Effective Date
Adams, IN	Effective	9/29/2010
Allen, OH	Preliminary	N/A
Allen, IN	Effective	8/3/2009
Auglaize, OH	Unmodernized	N/A
Defiance, OH	Effective	9/29/2010
Hancock, OH	Effective	6/2/2011
Hardin, OH	Unmodernized	N/A
Henry, OH	Unmodernized	N/A
Mercer, OH	Unmodernized	N/A
Paulding, OH	Unmodernized	N/A
Putnam, OH	Unmodernized	N/A
Shelby, OH	Unmodernized	N/A
Van Wert	Unmodernized	N/A

Community Fact Sheets

To help guide the data analysis process, a Fact Sheet was developed for each community within the watershed (Appendix H). Each Fact Sheet summarizes the demographic, social, and industrial characteristics and flood-study information for each community.

IV. Risk MAP Needs

The results of the data collection and analysis were thoroughly discussed at the Discovery Meeting. The following sections include issues and situations that exist in the Auglaize Watershed communities that can be considered Risk MAP Needs, to be addressed with Risk MAP projects. Details and background on all issues can be found in the interview notes, meeting notes, and other files included in the appendices.

i. Floodplain Studies

A number of the counties located in the Auglaize Watershed have undergone recent countywide DFIRM projects; however, not all of these projects included new Zone A studies.

As shown on the Final Discovery Map, recent LiDAR and imagery data meeting FEMA's Guidelines and Specifications have been developed for the entire Discovery Project Area.

As shown on the Final Discovery Map, numerous study reaches have been classified as "INVALID" during the CNMS process.

At the Discovery Meeting, several areas were identified by community officials as needing an updated detailed or approximate study.

Based on the results of the Stakeholder Coordination, Data Analysis and Discovery Meeting, proposed Study Areas in the Auglaize have been identified in Table 6.

Table 6. Mapping Needs

FLOODING SOURCE	STUDY LENGTH (miles)	STUDY TYPE
Auglaize River	31.6	DETAILED
Auglaize River	18.3	APPROXIMATE
Auglaize River Tributary 2	1.6	APPROXIMATE
Flat Fork Creek	2.6	DETAILED
Flatrock Creek	21.1	DETAILED
Freed Ditch	2.9	DETAILED
Freed Ditch Tributary 1	0.8	APPROXIMATE
Hoffman Ditch	14.5	DETAILED
Honey Run	10.1	APPROXIMATE
Jennings Creek	6.3	APPROXIMATE
Jennings Creek	2.2	DETAILED
Jennings Creek Tributary 1	0.3	APPROXIMATE
Little Hog Creek	2.3	APPROXIMATE
Lost Creek Tributary	1.7	DETAILED
Ottawa River	3.5	DETAILED

FLOODING SOURCE	STUDY LENGTH (miles)	STUDY TYPE
Plum Creek Tributary 1	1.6	APPROXIMATE
Twomile Creek	2.1	APPROXIMATE
Twomile Creek Tributary 1	0.6	APPROXIMATE
Twomile Creek Tributary 2	1.8	APPROXIMATE
Unnamed Tributary	3.8	APPROXIMATE
Wrestle Creek	0.6	APPROXIMATE

ii. Mitigation Projects

Several locations of overtopping roads and undersized culverts were identified by the communities.

iii. Compliance

While several communities have open CAV's no Risk MAP Needs regarding compliance issues were identified.

iv. Communications

The local officials were all interested in learning more about how to provide flood risk information to residents. Community representatives indicated the need to be kept informed about the results of the Discovery process and opportunities for public input throughout the process.

V. Close

Local officials in the communities were interested in the Discovery process and Risk MAP and open to learning more about how they can begin to develop resiliency to flood events. They identified several areas for map updates and areas in which they could use additional FEMA support. The information gathered in the Discovery process provided invaluable information for analyzing and identifying the most flood-prone and at-risk areas. Local officials will now be more aware of risks in their area, and state and federal agencies will be able to focus their resources on the most feasible projects. The local officials in the Auglaize Watershed would benefit from the implementation of Risk MAP projects.

VI. Appendix and Tables

The Discovery Report appendices are stored digitally under their respective folders on the MIP at:

\\05090202\Discovery\Project_Discovery_Initiation\Discovery_Report\

Appendix A - Project Team Contact Information & Meeting Minutes

Appendix B - Stakeholder Contact Information & Meeting Invitations

Appendix C - Discovery Meeting Presentations

Appendix D - Discovery Meeting Sign-In Sheets & Handouts

Appendix E - Discovery Meeting Notes & Comments

Appendix F - Discovery Meeting Participant Feedback

Appendix G - Discovery Maps

Appendix H - Community Fact Sheets