Discovery Report

Tallahatchie Watershed, MS (HUC–08030202)

Coahoma, Grenada, Leflore, Panola, Quitman, Tallahatchie, Yalobusha Counties and Incorporated Areas

Report Number 01

02/09/2016

FEMA

Tallahatchie Watershed, Mississippi
Community List

City of Clarksdale, Coahoma County	
Coahoma County, Unincorporated Areas	
Town of Jonestown, Coahoma County	
Town of Lyon, Coahoma County	
Grenada County, Unincorporated Areas	
City of Greenwood, Leflore County	
Leflore County, Unincorporated Areas	
City of Batesville, Panola County	
City of Crowder, Panola County	
City of Sardis, Panola County	
Panola County, Unincorporated Areas	
City of Crowder, Quitman County	
City of Marks, Quitman County	
Quitman County, Unincorporated Areas	
Town of Lambert, Quitman County	
City of Charleston, Tallahatchie County	
City of Glendora, Tallahatchie County	
Tallahatchie County, Unincorporated Areas	
Town of Sumner, Tallahatchie County	
Town of Tutwiler, Tallahatchie County	
Town of Webb, Tallahatchie County	
Town of Oakland, Yalobusha County	
Yalobusha County, Unincorporated Areas	

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Acronyms and Abbreviations

AAL	Average Annualized Loss
AoMI	Area of Mitigation Interest
BFE	Base Flood Elevation
CAC	Community Assistance Contact
CAV	Community Assistance Visit
CNMS	Coordination Needs Management System
CRS	Community Rating System
CTP	Cooperating Technical Partners
DFIRM	Digital Flood Insurance Rate Map
FEMA	Federal Emergency Management Agency
FRR	Flood Risk Review
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
FMA	Flood Mitigation Assistance
GIS	Geographical Information System
H&H	Hydrology/Hydraulics
HMGP	Hazard Mitigation Grant Program
LDS	Limited Detailed Study
LFD	Letter of Final Determination
LiDAR	Light Detection and Ranging
LOMA	Letter of Map Amendment
LOMC	Letter of Map Change
LOMR	Letter of Map Revision
MAS	Mapping Activity Statement
MIP	Mapping Information Platform
MSC	Map Service Center
NFIP	National Flood Insurance Program
NID	National Inventory of Dams
PDCC	Preliminary DFIRM Community Coordination (Meeting)
PAL	Provisionally Accredited Levees
PDM	Pre-Disaster Mitigation (Program)
PMR	Physical Map Revision
PTS	Production and Technical Services (FEMA Technial Contractors)
PPP	Post Preliminary Processing
QA/QC	Quality Assurance/Quality Control
Risk MAP	Risk Mapping, Analysis, and Planning (MAP)
RST	Regional Study Team
SFHA	Special Flood Hazard Area
SRL	Severe Repetitive Loss
USGS	U.S. Geological Survey
USACE	US Army Corps of Engineers (also see COE)

II. General Information

The goal of the Discovery effort was to understand better local flood risk, current mitigation efforts in place, and to spark watershed-wide discussions about increasing resilience to flooding. Discovery helps communities identify areas at risk for flooding, and solutions for reducing that risk. Through the Risk Mapping, Assessment and Planning (MAP) program, the Federal Emergency Management Agency (FEMA) provides information to enhance local mitigation plans, improve community outreach, and increase local resilience to floods.

The Tallahatchie Watershed Discovery effort involved an analysis of watershed-wide researched data and information discussed at the Discovery meeting. The inclusion of several communities enabled different community officials to meet with each other and hear how the neighboring community is dealing with similar problems they are facing.

FEMA's Risk MAP program provides communities with flood information based on a watershed model and tools that can be used to enhance mitigation plans and better protect citizens. Risk MAP promotes early and frequent communication with project partners (including all affected communities) to approach risk assessment and mitigation planning on a watershed basis. Discovery is a new Risk MAP task that involves data mining, collection, and analysis. This report summarizes the Discovery tasks that were conducted for the Tallahatchie Watershed (HUC # 08030202) in FEMA Region IV.

The FEMA Region IV Discovery data collection entailed a massive collection of tabular and spatial data for all communities from Federal and State sources, as well as information collected through phone interviews and with Discovery data questionnaires sent to each community.

i. Background and Statistics

The Tallahatchie Watershed is located in northwest Mississippi. The watershed is approximately 1,060 square miles. The watershed falls mostly with the Delta or Yazoo-Mississippi Basin physiographic regions of Mississippi[1]. The watershed contains portions of seven counties: Coahoma, Grenada, Leflore, Panola, Quitman, Tallahatchie, and Yalobusha.

The Region Study Team (RST) Meeting, which occurred on January 22, 2014, assists in the proper pre-planning to ensure that the Risk MAP goals and objectives are met. With Risk MAP's focus on watersheds at a HUC-8 level it is important that the most is made of this phase in the potential projects within the watershed.

Below is a summary of the Project Management Team/Regional Study Team, including team member name, organization, and role in the study that attended the RST:

- Kristen Martinenza, FEMA Region IV, Lead Engineer

[1] *Stewart, R.A. 2003. Physiographic regions of Mississippi. Handout, Department of Biological Sciences, Delta State University, 6 pp. (with addenda by S.P. Faulkner, 2005)*

- Henrietta Williams, FEMA Region IV, Outreach Lead for State
- Stacey Ricks, Mississippi Emergency Management Agency
- Steve Champlin, Mississippi Department of Environmental Quality
- Nathan Shields, RPML
- Charles Curcio, RSC-4
- Michael Taylor, AECOM, Project Manager
- Jamie Monohan, Waggoner Engineering, Project Manager

Communities within the Tallahatchie Watershed are listed in Table 1.

Table 1: Statistical Information

Name of Community	CID	Area (square miles/% of community)	Pop Growth (2000-2010)	Mitigation Plan current?	NFIP (Y/N)	Policies	Coverage	Claims	Losses
Coahoma County	280038	582.7/84.3	-14.1%	Y	Y	130	$25,641,600.00	254	$2,998,400.85
Grenada County	280060	449.4/1.5	-5.8%	Y	Y	123	$17,205,200.00	125	$1,903,963.53
Leflore County	280101	606.3/65.1	-14.8%	Y	Y	510	$62,874,400.00	268	$2,041,071.23
Panola County	280125	705.1/229.7	1.3%	Y	Y	65	$7,715,100.00	33	$299,859.78
Quitman County	280207	406.4/269.0	-18.7%	Y	Y	100	$12,273,300.00	139	$1,238,024.85
Tallahatchie County	280206	652.0/328.6	3.2%	Y	Y	71	$7,099,300.00	47	$223,123.11
Yalobusha County	280239	495.0/78.1	-2.9%	Y	Y	7	$914,400.00	0	$0.00

Figure 1 is an overview map of the watershed and Figure 2 illustrates the population density of the watershed.

Figure 1: Watershed Overview Map

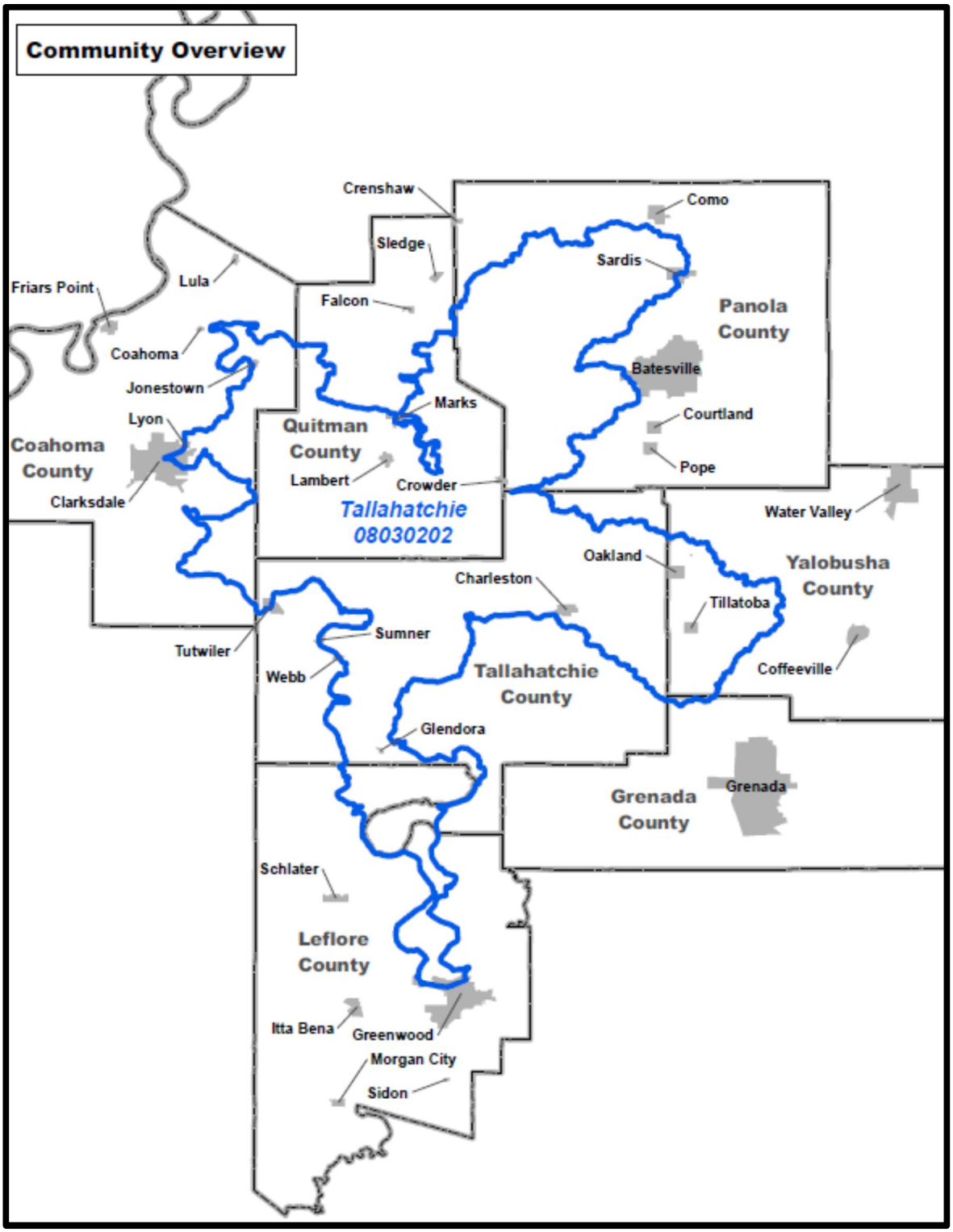
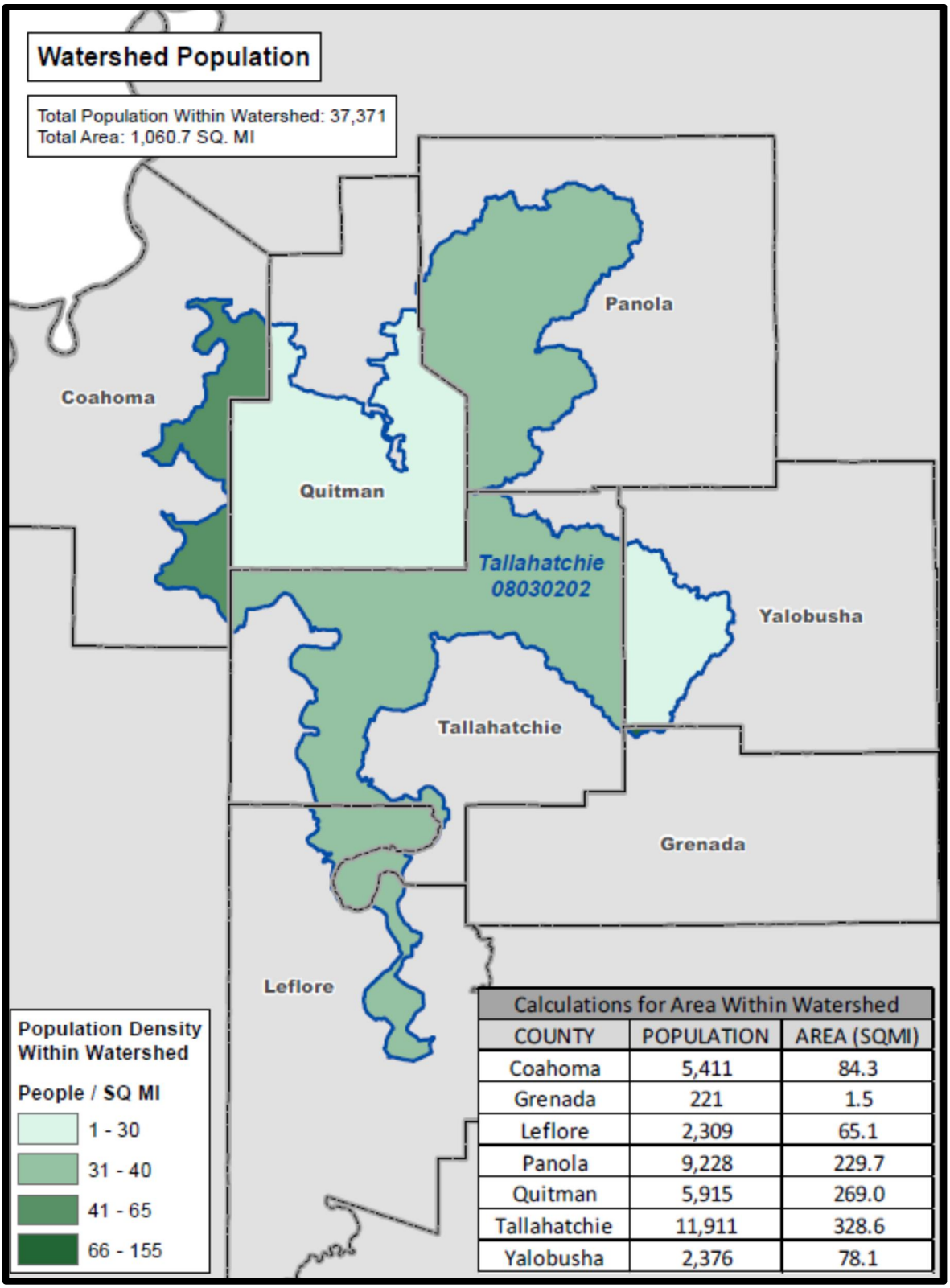


Figure 2: Watershed Population Density



Meetings and 44 CFR Part 66 Compliance:

Initial contact with the communities began in Fall 2013. Following the initial contact, a questionnaire requesting information was sent to the appropriate community contacts.

Part 66 compliance:

The CTP has begun and has on record its Case file and docket?	X	YES		NO
The CTP has written record of its initial contact made to the local communities affected by this Risk MAP project?	X	YES		NO
The CTP has written record of its request for additional flood study data and base information from the local communities?	X	YES		NO

NFIP Compliance:

a) Have you obtained all the communities' ordinances to review for compliance? **Yes**
b) Have you checked with the communities and determined if they can adopt a digital product, proof copy, or will they need the official paper copy from MSC to adopt? **Yes** (provide information regarding which version of the product is needed for adoption)
c) Have you ensured that local floodplain administrators were in attendance? **Yes**
d) Have you updated CIS with updated contact information? **Yes**

Risk MAP Program Measures:

1. Signed Charters:

Community	Distributed	Signed	Not Signed
City of Clarksdale, Coahoma County	X		X
Coahoma County, Unincorporated Areas	X		X
Town of Jonestown, Coahoma County	X		X
Town of Lyon, Coahoma County	X		X
Grenada County, Unincorporated Areas	X		X
City of Greenwood, Leflore County	X		X
Leflore County, Unincorporated Areas	X		X
City of Batesville, Panola County	X		X
City of Crowder, Panola County	X		X
City of Sardis, Panola County	X		X
Panola County, Unincorporated Areas	X		X
City of Crowder, Quitman County	X		X
City of Marks, Quitman County	X		X
Quitman County, Unincorporated Areas	X		X
Town of Lambert, Quitman County	X		X
City of Charleston, Tallahatchie County	X		X
City of Glendora, Tallahatchie County	X		X

Community	Distributed	Signed	Distributed
Tallahatchie County, Unincorporated Areas	X		X
Town of Sumner, Tallahatchie County	X		X
Town of Tutwiler, Tallahatchie County	X		X
Town of Webb, Tallahatchie County	X		X
Town of Oakland, Yalobusha County	X		X
Yalobusha County, Unincorporated Areas	X		X

2. Action Measures
    a. Identified Areas of Mitigation Interest

Table 2: Areas of Mitigation Interest

County	Disaster Number	Address	Type
Leflore	1360	11 WOODLAWN RD., WEBB, MS, 38966	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Leflore	1360	SOUTH WALNUT ST., SUMMER, MS, 38957	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Leflore	1360	205 MONROE ST., SUMMER, MS, 38957	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Leflore	1265	601 CO RD 441, GREENWOOD, MS, 38930	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures
Leflore	1360	601 CO RD 441, GREENWOOD, MS, 38930	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1251	1169 HWY 8, PHILLIP, MS, 38950	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures
Yalobusha	1251	RTE 1 ROUTE 1 BOX 178, SCOBEY, MS, 38953	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures
Tallahatchie	1604	24-1 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land

Tallahatchie	1604	24 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	20-1 HONEYSUCKLE DR, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	101 HONEY SUCKLE DRIVE, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	34 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	41-2 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	141 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	41 HONEYSUCKLE DR, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	101 HONEYSUCKLE DR, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine; 200.5: Acquisition of Vacant Land
Tallahatchie	1604	57 HONEYSUCKLE DRIVE, CHARLESTON, MS, 38921	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Tallahatchie	1604	615 BELMOUNT DRIVE, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Tallahatchie	1604	6 A FIRST STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	08 SOUTH MARKET STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	308 S MARKET STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	#3 NELSON DRIVE, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	907 EAST MAIN STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	201 SOUTH VINE STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	84 ESKRIDGE STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	82 ESKRIDGE STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	437 ROSALINE STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	437 1/2 ROSALIND STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Tallahatchie	1604	434 DOROTHY STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	110 MAYFLOWER CR, TUTWILER, MS, 38963	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	202 DOROTHY STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	201 DOROTHY STREET, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	203 MAYFLOWER CR, TUTWILER, MS, 38957	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	403 WEST STREET, TUTWILER, MS, 38963	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	302 WEST STREET, TUTWILER, MS, 38963	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	177 TALLAHA ROAD, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	175 TEASDALE ROAD, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	177 TEASDALE ROAD, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Tallahatchie	1604	77 TEASDALE ROAD, CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	712 MCNULTY ROAD, OAKLAND, MS, 38948	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	755 MCNUTTY ROAD, OAKLAND, MS, 38948	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1360	404 PADACAH WELLS RD., CHARLESTON, MS, 38921	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	256 MCNUTTY ROAD, OAKLAND, MS, 38948	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1360	1811 TEASDALE RD., ENID, MS, 38927	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	391 BETHEL RD, ENID, MS, 38927	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Grenada	0	, GRENADA, MS, 38017	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	LOT 13 (VACANT), MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Tallahatchie	1604	210-1 BONNER ROAD, CROWDER, MS, 38622	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Tallahatchie	1604	1758-B POPE CROWDER RD, ENID, MS, 38927	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Quitman	1360	980 MOORE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1604	555 TALLAHATCHIE AVE, CROWDER, MS, 38622	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	555 SUNFLOWER AVE, CROWDER, MS, 38622	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	430 BAILEY RD, CROWDER, MS, 38622	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	885 YOCONA AVE, CROWDER, MS, 38622	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1124 JEFF SANDERS RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	1060 DARBY AVE, LAMBERT, MS, 38643	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	6422 HWY 35, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	418 COVINGTON ST, LAMBERT, MS, 38643	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1173 TOCOWA RD, COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Panola	1360	3705 TOCOWA RD, COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1360	3807 TOCOWA RD., COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	151 LOCKETT RD, MARKS, MS, 38646	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	6479 DUMMY LINE RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1360	1201 COTTEN STREET (701), MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1604	1420 ALEX GATES RD., MARKS, MS, 38646	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1360	1075 HENTZ ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	1240 HENTZ ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1604	410 FOURTH ST, MARKS, MS, 38646	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	2517 CHAPEL TOWN RD, COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	2249 HUGHES RD, COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Panola	1360	1378B HUGHES RD., COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1086 HUGHES RD, COURTLAND, MS, 38620	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1360	1200 JOE KYLE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	894 JOE KYLE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	857 JOE KYLE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	856 JOE KYLE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	818 JOE KYLE ORAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	1632 JOSSELL ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	1606 JOSSELL ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	1584 JOSSELL ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	950 WIGGS ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	690 JOE KYLE ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine
Quitman	1360	656 JAMISON ROAD, MARKS, MS, 38646	200.1: Acquisition of Private Real Property (Structures and Land) - Riverine

Panola	1604	10 EDGARWOOD RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1898 FARRISH GRAVEL RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	12586 A HWY 6, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1360	2809 CURTIS LOCKE STE RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Quitman	1604	2385 JACKSON RD, DARLING, MS, 38623	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	134 FERRELL RD, BATEVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	2886 BARNACRE RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	2775 BARNACRE RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	4361 C BARNACRE RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	878 LEMASTER RD, BATESVILLE, MS, 38606	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Panola	1604	1723 SANDERS RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	3551 DAVIS CHAPEL RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	8627 OLD PANOLA RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	708 LETHA H. WILEY RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	73 WILLOW RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1251	9506 HWY 315, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures
Panola	1604	10251 HWY 315, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	100 BROCK CIRCLE, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	8583 HWY 315, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	356 PLEASANT GROVE RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	7671 HWY 315, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

Panola	1604	6333 UNION RD., SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1360	1355A ADAMS RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1502 ADAMS RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	1502 ADAMS RD, SARDIS, MS, 38666	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	3265 PEGRAM RD., COMO, MS, 38619	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures
Panola	1604	106 SECTION LINE RD, COMO, MS, 38619	206.1: Safe Room (Tornado and Severe Wind Shelter) - Private Structures; 206.2: Safe Room (Tornado and Severe Wind Shelter) - Public Structures

3. Risk Awareness
    - What discussions have taken place with communities that would increase their awareness of local flood risks? Risk Awareness discussions occurred at the Discovery Meeting.

4. New, Updated, Verified Engineering (NVUE)

    Based upon the discovery activities, the table below lists the existing (effective) NVUE compliance mileage for the Tallahatchie Watershed and the expected NVUE compliance mileage after this study is complete. As part of the discovery process, all Zone AE miles have been assessed and categorized as "Verified" or "Not Verified".

Floodplain Boundary Standards

The Risk Class for this area are primarily B and C. 25.5 miles of effective detailed studies meet floodplain boundary standards. After the study is complete, 238.5 miles of detail studies will meet floodplain boundary standards.

Table 3: NVUE Compliance for Tallahatchie Watershed

New Studies and Leveraged Studies Included

	Zone AE			Zone A		
	Verified	**Not Verified**	**Unknown**	**Verified**	**Not Verified**	**Unknown**
Effective Stream Mileage	25.5	52.6	0	202.9	0	178.8
Stream Mileage to Remain Unchanged by This Study	6.2	41.3	0	121.2	0	175.7
Mileage that is Updated by This Study	0	0	0	0	0	0
Mileage that is Redelineated by This Study*	19.3	11.3	0	0	0	0
Mileage That is Added by This Study (New or Leveraged)	213.0	0	0	0	0	0
Total Stream Mileage After Current Study	238.5	52.6	0	121.2	0	175.7

ii. Project Summary:

Provide a summary of information on the current maps from CNMS results and any additional information from Discovery. The scope of work maps are in Appendix D. **No identified unmet needs will remain in the watershed if this scope of work is adopted.**

Table 4: Proposed FEMA Funded Scope

Flooding Source	Current Effective Zone	Stream Length (miles)	Proposed Activity	Technical Justification (i.e. CNMS Results)
Hunter Creek	AE	1.36	Redelineation	CNMS Results
North Fork Tillatoba Creek	AE	0.88	Redelineation	CNMS Results
Running Slough Ditch	AE	3.25	Redelineation	CNMS Results
Stream B	AE	1.22	Redelineation	CNMS Results
Stream C	AE	1.62	Redelineation	CNMS Results
Tillatoba Creek	AE	2.94	Redelineation	CNMS Results
Blacks Creek	AE	2.19	Redelineation	New LiDAR Data

Little Tallahatchie River	AE	2.04	Redelineation	New LiDAR Data
McIvor Canal	AE	13.38	Redelineation	New LiDAR Data
Stream A	AE	1.64	Redelineation	New LiDAR Data
BAILEY CREEK	A	0.14	Limited Detail	New LiDAR Data; Detailed Study
BELLAMY CREEK	A	1.55	Limited Detail	New LiDAR Data; Detailed Study
DAVIS CREEK	A	5.6	Limited Detail	New LiDAR Data; Detailed Study
FRAZIER BAYOU	A	1.48	Limited Detail	New LiDAR Data; Detailed Study
HARPER CREEK	A	3.89	Limited Detail	New LiDAR Data; Detailed Study
HAYNE CREEK	A	0.62	Limited Detail	New LiDAR Data; Detailed Study
HUNTER CREEK	A	1.6	Limited Detail	New LiDAR Data; Detailed Study
JACKSON CREEK	A	2.95	Limited Detail	New LiDAR Data; Detailed Study
KUYKENDALL CREEK	A	4.17	Limited Detail	New LiDAR Data; Detailed Study
LEE BRANCH	A	0.16	Limited Detail	New LiDAR Data; Detailed Study
LITTLE CREEK	A	0.38	Limited Detail	New LiDAR Data; Detailed Study
LITTLE CREEK SOUTH	A	0.73	Limited Detail	New LiDAR Data; Detailed Study
LITTLE FRAZIER BAYOU	A	3	Limited Detail	New LiDAR Data; Detailed Study
MITCHELL CREEK	A	0.37	Limited Detail	New LiDAR Data; Detailed Study
MURPHY BRANCH	A	0.86	Limited Detail	New LiDAR Data; Detailed Study
NORTH FORK TILLATOBA CREEK	A	13.51	Limited Detail	New LiDAR Data; Detailed Study
OBREIN CREEK	A	1.25	Limited Detail	New LiDAR Data; Detailed Study
PARKER BRANCH	A	0.48	Limited Detail	New LiDAR Data; Detailed Study
ROBINSON BAYOU	A	2.4	Limited Detail	New LiDAR Data; Detailed Study
SANDY CREEK	A	0.85	Limited Detail	New LiDAR Data; Detailed Study
SHERMAN CREEK	A	1.96	Limited Detail	New LiDAR Data; Detailed Study

SIMMONS CREEK	A	11.39	Limited Detail	New LiDAR Data; Detailed Study
SOUTH FORK TILLATOBA CREEK	A	7.47	Limited Detail	New LiDAR Data; Detailed Study
TILLATOBA CREEK	A	17.93	Limited Detail	New LiDAR Data; Detailed Study
ARMSTEAD CREEK	X	3.43	Limited Detail	New LiDAR Data; Detailed Study
BAILEY CREEK	X	2.55	Limited Detail	New LiDAR Data; Detailed Study
BELLAMY CREEK	X	4.96	Limited Detail	New LiDAR Data; Detailed Study
BLACKS CREEK	X	1.6	Limited Detail	New LiDAR Data; Detailed Study
BUCKHALTER CREEK	X	4.18	Limited Detail	New LiDAR Data; Detailed Study
BUNTYN CREEK	X	4.16	Limited Detail	New LiDAR Data; Detailed Study
CROOKED CREEK	X	2.7	Limited Detail	New LiDAR Data; Detailed Study
DAVIDSON CREEK	X	4.93	Limited Detail	New LiDAR Data; Detailed Study
DAVIS CREEK	X	4.03	Limited Detail	New LiDAR Data; Detailed Study
EAST FLOYD CREEK	X	5.55	Limited Detail	New LiDAR Data; Detailed Study
FLOYD CREEK	X	3.09	Limited Detail	New LiDAR Data; Detailed Study
HARPER CREEK	X	0.7	Limited Detail	New LiDAR Data; Detailed Study
HAYNE CREEK	X	2.97	Limited Detail	New LiDAR Data; Detailed Study
HOG CREEK	X	2.04	Limited Detail	New LiDAR Data; Detailed Study
HUNTER CREEK	X	4.24	Limited Detail	New LiDAR Data; Detailed Study
KUYKENDALL CREEK	X	0.01	Limited Detail	New LiDAR Data; Detailed Study
LEE BRANCH	X	3.61	Limited Detail	New LiDAR Data; Detailed Study
LITTLE CREEK	X	6.56	Limited Detail	New LiDAR Data; Detailed Study
LITTLE CREEK SOUTH	X	1.59	Limited Detail	New LiDAR Data; Detailed Study
LITTLE FRAZIER BAYOU	X	0.36	Limited Detail	New LiDAR Data; Detailed Study

MCIVOR CANAL	X	2.36	Limited Detail	New LiDAR Data; Detailed Study
MITCHELL CREEK	X	3.09	Limited Detail	New LiDAR Data; Detailed Study
MURPHY BRANCH	X	0.98	Limited Detail	New LiDAR Data; Detailed Study
NORTH FORK BEAR CREEK	X	5.69	Limited Detail	New LiDAR Data; Detailed Study
OBREIN CREEK	X	5.48	Limited Detail	New LiDAR Data; Detailed Study
OLD YOCONA RIVER	X	0.01	Limited Detail	New LiDAR Data; Detailed Study
PARKER BRANCH	X	3	Limited Detail	New LiDAR Data; Detailed Study
PEACH CREEK	X	7.77	Limited Detail	New LiDAR Data; Detailed Study
PETERSON CREEK	X	2.18	Limited Detail	New LiDAR Data; Detailed Study
ROBINSON BAYOU	X	1.38	Limited Detail	New LiDAR Data; Detailed Study
ROCKY CREEK	X	2.09	Limited Detail	New LiDAR Data; Detailed Study
SANDY CREEK	X	3.32	Limited Detail	New LiDAR Data; Detailed Study
SHERMAN CREEK	X	6.63	Limited Detail	New LiDAR Data; Detailed Study
SIMMONS CREEK	X	1.44	Limited Detail	New LiDAR Data; Detailed Study
SOUTH FORK BEAR CREEK	X	5.98	Limited Detail	New LiDAR Data; Detailed Study
SOUTH FORK TILLATOBA CREEK	X	0.03	Limited Detail	New LiDAR Data; Detailed Study
STARCH HOLLOW	X	1.3	Limited Detail	New LiDAR Data; Detailed Study
STREAM A	X	1.06	Limited Detail	New LiDAR Data; Detailed Study
STREAM B	X	0.04	Limited Detail	New LiDAR Data; Detailed Study
STREAM C	X	2.29	Limited Detail	New LiDAR Data; Detailed Study
TAYLOR CREEK	X	1.69	Limited Detail	New LiDAR Data; Detailed Study
TILLATOBA CREEK	X	7.15	Limited Detail	New LiDAR Data; Detailed Study

III. Watershed Stakeholder Coordination

To communicate effectively throughout the life of a possible Risk MAP project in this Watershed, the use of e-mail, telephone, and letters will be essential. A master or central list of stakeholders in the communities within Tallahatchie has been established. This list is included in Appendix B.

Representatives from the local governments, including cities and towns, are considered fundamental stakeholders in this process because they have been elected or appointed to represent the interests of the residents of the Watershed. In addition to municipal governments, the county officials were invited to participate in the Discovery Meetings. Representatives of various other regional, state, and federal agencies were also encouraged to participate.

An important phase of Discovery is to request additional information through interviews and data questionnaires. The interviews involved giving community officials information about the Discovery process, and data from various FEMA fact sheets. Communities were asked to identify "Areas of Concern" that could be addressed during the Discovery meeting (e.g., mapping needs, desired mitigation projects, flood prone areas).

The project team worked with FEMA Region IV and the State National Flood Insurance Program (NFIP) Coordinator and State Hazard Mitigation Officers to compile the stakeholder list for the Tallahatchie Watershed in Appendix B. Community priorities were established through the use of a Community Worksheet, correspondence, and personal discussions during and after the Discovery meeting to identify those streams that the communities wanted studied. Worksheet forms were completed by some communities. The forms provide additional information regarding available community data and flood mapping issues concerning the communities. The Discovery Meeting sign-in sheet and presentation are also included as Appendix G.

IV. Data Analysis

Data collection for the Tallahatchie Watershed is summarized in Table 5.

Table 5: Data Collection for the Tallahatchie Watershed Study

Data Types	Deliverable/Product*	Vertical/ Horizontal Datum	Use Restrictions Y/N?	Source	Regulatory / Non-regulatory
Demographics		NAD83	N	US Census	Non
Insurance Policies		N/A	N	FEMA CIS	
Mitigation Plans		N/A	N	MEMA	
Claims Data		N/A	N	FEMA CIS	
Letter of Map Change (LOMCs)		NAD83 NAVD88 & NGVD29	N	FEMA MIP	
Repetitive Loss		NAD83 NAVD88 & NGVD29	Y	FEMA Region 4	
Flood Control Structures					
Boundaries: Community	S_Pol_Ar	NAD83	N	MARIS	Reg
Boundaries: County and State	S_Pol_Ar	NAD83	N	MDEQ	Reg
Boundaries: Watersheds	S_Subbasins	NAD83	N	USGS	Reg
Effective Floodplains: Modernized SFHAs	CSLF	NAD83 NAVD88 & NGVD29	N	FEMA NFHL	Non
Future or recent highway improvement, bridge, culvert, levee locations					
Hydrography		NAD83	N	State	Reg
Mitigation Projects: Recent, ongoing, planned, desired FEMA/OFA/local projects					
Recent land changes (development, wildfires, landslides, etc.)					
Recently developed or planned high growth areas		NAD83	N	NUCI	
Stream Gages		NAD83 NAVD88	N	USGS	
Study Needs: FEMA		NAD83	N	FEMA CNMS	
Study Needs: Recent, ongoing, planned, desired FEMA/OFA/local studies		NAD83	N	FEMA CNMS	

Topographic Availability		NAD83 NAVD88	N	State	Reg & Non
Transportation: Railroads	S_Trnsport_Ln	NAD83	N	MARIS	Reg
Transportation: Roads	S_Trnsport_Ln	NAD83	N	MDEQ	Reg
Community Contacts		N/A	N	Local	
Cadastral		N/A	N	State	
Digital Orthophotos	Orthophoto	NAD83	N	Local/NAIP	Reg
Publicly Owned Lands Data		NAD83	N	State	Reg
ETJ Data	S_Pol_Ar	NAD83	N	Local	Reg

National Digital Elevation and Digital Ortho Program Project Tracking System: After the elevation and imagery data is obtained the following project tracking systems should be updated with the following required information.

National Digital Elevation Program (NDEP) Project Tracking System
(https://hazards.fema.gov/metadata/NDEP/)

- Data Collection Status: Complete, In work, Planned, or Proposed.
- Vertical Datum: should be NAVD88
- Vertical Accuracy: RMSE per FEMA G&S App-A
- Approx. Planned Posting Spacing: smallest dist. Between points in gridded elevation dataset
- Elevation Data Model: e.g., mass point/breaklines, regular grid, etc...
- Data Collection Method: e.g., cartographic, photogrammatic, LiDAR
- Surface Mapped: usually bare earth
- Use restrictions

National Digital Orthophoto Program (NDOP) Project Tracking System
(https://hazards.fema.gov/metadata/NDOP/)

- Data Collection Status: Complete, In work, Planned, or Proposed.
- Image Resolution:
- Vertical Accuracy: in meters
- Data format
- Image Bands:
- Leaf Condition: on/off
- Grid System:
- UTM Zone:
- Horizontal Datum:
- Use restrictions

For further guidance and information about NDEP and NDOP please contact the RSC.

i. Other Data and Information

Current Hazard Mitigation Plan information is listed in Table 6. Current Flood Insurance Study (FIS) information is listed in Table 7.

Table 6: Current Hazard Mitigation Plan Dates

County	Last Plan Update	Next Plan Update	Approved by FEMA	Adopted by Community/ County	Plan Developer	Plan Type
Coahoma County	3/27/2012	3/27/2017	Yes	Yes	North Delta Planning & Development District, Inc.	Multi-Jurisdictional (MJ)-(includes Clarksdale, Coahoma, Friars Point, Jonestown, and Lyon)
Grenada County	2012	2017	Yes	Yes	The Grenada Civil Defense and the Grenada County Hazard Mitigation Task Force	MJ (includes Grenada)
Leflore County	9/19/2012	9/19/2017	Yes	Yes	Greenwood-Leflore Civil Defense Office	MJ (includes Greenwood, Itta Bena, and Schlater)
Panola County	5/6/2012	5/6/2017	Yes	Yes	North Delta Planning & Development District, Inc.	MJ (includes Batesville, Como, Courtland, Crenshaw, Pope, and Sardis)
Quitman County	12/7/2011	12/7/2016	Yes	Yes	North Delta Planning & Development District, Inc.	MJ (includes Crowder, Falcon, Lambert, Marks, and Sledge)
Tallahatchie County	2/28/2012	2/28/2017	Yes	Yes	North Delta Planning & Development District, Inc.	MJ (includes Sumner, Tutwiler, and Webb)
Yalobusha County	2012	2017	Yes	Yes	Yalobusha County Hazard Mitigation Task Force	MJ (includes Water Valley, Coffeeville, and Oakland)

Table 7: Current FIS Dates

Report Title	Affected Areas	Type of Map	Effective Date
Coahoma County	All Jurisdictions	FIS & FIRM	2/2/2012
Grenada County	All Jurisdictions	FIS & FIRM	5/24/2011
Leflore County	All Jurisdictions	FIS & FIRM	5/16/2012
Panola County	Unincorporated Areas	FIS & FIRM	11/4/1979
Panola County	City of Batesville	FIS & FIRM	9/15/1989
Panola County	City of Crowder	FIRM	8/1/1986
Panola County	City of Sardis	FIRM	6/4/1980
Quitman County	All Jurisdictions	FIRM	9/4/1985
Quitman County	City of Crowder	FIRM	8/1/1986
Quitman County	City of Marks	FIRM	9/4/1985
Tallahatchie County	All Jurisdictions	FIS & FIRM	12/15/1990
Tallahatchie County	City of Charleston	FIRM	8/4/1987
Tallahatchie County	City of Glendora	FIRM	9/27/1985
Tallahatchie County	Town of Sumner	FIRM	9/4/1985
Tallahatchie County	Town of Tutwiler	FIRM	9/1/1986
Tallahatchie County	Town of Webb	FIRM	8/1/1986
Yalobusha County	All Jurisdictions	FIS & FIRM	2/2/2012

ii. Project Status

Project scope is outlined in Appendix D.

V. Discovery Meeting

A watershed Discovery Meeting was held on February 20, 2014 at the Mississippi State Extension Service Building, 394 Highway 51 South, Batesville, Mississippi 38606. The meeting was set up to facilitate discussion about the Risk MAP program, identify study and mitigation project needs, desired compliance support, and local flood risk awareness efforts.

Representatives from the Mississippi Department of Environmental Quality (MDEQ), the Mississippi Emergency Management Agency (MEMA), the Federal Emergency Management Agency (FEMA) Region IV, Waggoner Engineering, AECOM, and other key stakeholders were in attendance. See Appendix G for pertinent Discovery meeting information including sign-in sheets and presentation**.**

- Steve Champlin, State of Mississippi, began the meeting by introducing the project. Introductions were made by all attendees. The meeting participants included:
    - Mississippi Department of Environmental Quality
    - Mississippi Emergency Management Agency
    - FEMA Region IV (via conference call)
    - Local Stakeholders including Floodplain Administrators and CEOs
    - Emergency Management Staff
    - USGS
    - NRCS
    - Planning Development Districts
    - Levee Board Members

- Steve Champlin presented the Tallahatchie Watershed Discovery Guidebook, which was distributed to all participants. The guidebook included:
    - Project Stakeholders
    - Discovery Presentation
    - Discovery Maps
    - FEMA Brochures and Handouts
    - CD containing an electronic version of the guidebook
    - Project Charter (with a self-addressed stamped envelope to return)

- Steve Champlin outlined the meeting agenda:
    - Risk MAP Program Overview
    - Tallahatchie Discovery Project
        - Watershed Overview
        - LiDAR Data
        - Discovery Map
        - Mitigation Planning
        - Watershed Approach
        - Risk Communication
    - Gather Stakeholder Input and Feedback

- Michael Taylor, AECOM/MGI, presented the FEMA's Risk Mapping, Assessment, and Planning (Risk MAP) program and explained the differences from the Map Modernization Program which Mississippi just completed.

- Michael Taylor presented Risk MAP's updated regulatory products and new non-regulatory products including Changes Since Last FIRM (CSLF), Multi-Frequency Depth Grids, Percent Annual Chance of Flooding, Percent Chance of Flooding Over the Life of a 30-Year Mortgage, and a HAZUS Average Annualized Loss (AAL) Analysis.
- Michael Taylor presented an overview of the Tallahatchie Watershed.

- Michael Taylor presented the data collected prior to the Discovery Meeting which included:
    - Effective Flood Hazard Data
    - Coordinated Needs Management Strategy (CNMS) Results
    - Letters of Map Revision (LOMRs)
    - Historical Flood Information
    - Hazard Mitigation Plans
    - Mitigation Projects
    - Community Assessment Surveys
    - Key Project Stakeholders

- Stacey Ricks, MEMA, explained the importance of Mitigation Planning as it relates to Risk MAP. A goal of Risk MAP is to use the products in the Hazard Mitigation Plan updates and to more effectively prioritize mitigation opportunities.

- Michael Taylor presented the importance of FEMA's watershed approach to flood studies. Flooding does not stop at a county boundary and it is important to consider potential impacts to downstream neighbors.

- Local communities participated in a breakout session and reviewed current flood maps as well as Discovery Maps. Comments were collected and will be presented in the upcoming Discovery Report.

VI. Risk MAP Products for the Tallahatchie Watershed

New products will be part of the Risk MAP project. During previous flood studies, three main types of products were generated: DFIRM Database, FIS Report, and DFIRMs. Risk MAP will continue to create these products. Additional new flood risk data and products will be created based on the new flood data; however, they will not be regulatory products. These additional products, including flood risk maps and flood risk reports, will be delivered to stakeholders. The new datasets will help to communicate the risk to the affected individuals and will help community officials communicate flood risk.

During this FIS study, several meetings will be held with the communities, such as a Resilience Meeting, which will provide guidance on integrating Risk MAP products into local planning efforts. A Consultation Coordination Office Meeting where the new FIRMs, FIS and Risk MAP products will be presented to local officials. An Open House for the public will follow the Preliminary DFIRM Community Coordination (PDCC) Meeting. In addition, there is an optional Flood Study Review Meeting that can be requested by the communities to review and comment on draft floodplain boundaries.

1.1 Proposed Enhanced Products

This Risk MAP analysis will provide state and community officials with the following Flood Risk Products:

- Flood Risk Report: a summary of flood risk data for the watershed and each community
- Flood Risk Map: high level overview of specific flood risk data for the watershed
- Flood Risk Database: relational database that stores all flood risk data.

Separate datasets will reside within the Flood Risk Database, including:

- Changes since the last FIRM, which include the Horizontal Changes and Results Grid
- Depth Grids for the 10-, 4-, 2-, 1-, and 0.2-percent-annual-chance events, the “Percent Annual Chance” grid, and the “Percent 30-Year” grid.
- A refined Flood Risk Assessment with revised AAL results
- Areas of Mitigation Interest

1.1.1 Changes since Last FIRM

Changes Since Last FIRM will show horizontal flood boundary change between effective and previous flood boundaries, which will help to count the structures and population impacted by the change. Information about the engineering, such as whether new engineering was performed and how the updated topographic data was applied, will also be included. This additional information will help communicate the changes of the new maps and help communities to better understand their accuracy.

1.1.2 Flood Depth and Analysis Grids

Flood Depth Grids will be generated for the 10-, 4- 2-, 1-, and 0.2-percent-annual-chance flood events. Each individual grid cell will have a depth value assigned, based on a comparison of the flood elevation and available terrain data. A depth grid represents the likelihood of "getting wet." This will help to communicate hazards for a non-technical user.

The Percent Annual Chance Grid is an effective communication tool for helping local residents understand the probabilities associated with specific flood frequency events. Used in conjunction with the Percent 30-Year Chance Grid, local stakeholders may gain a better understanding of the relative probability of being flooded for any given location within the mapped floodplain.

Similar to the Percent Annual Chance Grid, the Percent 30-Year Chance Grid provides valuable insight into the potential for being flooded in any given location within the mapped floodplain within a period of time (30-years) equivalent to the standard period of time that home mortgages are held. This grid is very useful in dispelling misconceptions that there is little chance of being flooded by (for example) the 1-percent-annual-chance flood event during the life of a mortgage.

1.1.3 Flood Risk Assessment

A refined HAZUS analysis may be provided as part of the project based on the newly created depth grids. It will provide dollar losses, percent damage, and business disruption based on census blocks. Hot spots will be identified incorporating such factors as previous repetitive loss claim areas, undersized culverts, bridge openings, new developments in the floodplain, and locations of successful mitigation projects for potential hazard mitigation. Unless the communities can provide more detailed infrastructure data, it would be based on the 2010 Census data.

In order to create reliable HAZUS data it is very important that the community provide up to date data, such as essential facilities, building counts, highway and railroad bridges, population, water system facilities, military installations, location/categorization, and replacement value information. The availability of locally-developed building locations will be a key factor in determining whether a refined HAZUS analysis will be a worthwhile undertaking for this project.

1.1.4 Areas of Mitigation Interest

The Areas of Mitigation Interest (AoMI) dataset is intended to communicate areas and issues associated with flood risk reduction opportunities or success stories. This dataset allows local stakeholders to gain a more holistic picture of flood risk related issues that may impact them.

AoMI may include information such as:

- Key emergency routes overtopped during frequent flood events,
- Past claims "hot spots," including flood claims and properties on the FEMA Repetitive Loss/Severe Repetitive Loss lists, and Individual Assistance/Public Assistance data,

- Areas of significant riverine erosion,
- Locations of at-risk essential facilities and vulnerable locations.
- Areas of mitigation success, or
- Other flood risk areas not identified on the FIRM.

The following mitigation options may be recommended in the AoMI documents:

Property Protection Measures

- Buy outs
- Flood proofing
- Relocation
- Structure elevation

Education and Outreach Measures

- Brochures
- Booths at fairs and festival
- Annual meetings

Prevention Measures

- Flood ordinance,
- Stormwater programs
- Building codes

Natural Resource Protection Measures

- Wetland and stream restoration
- Riparian buffer ordinances

Structural Project Measures

- Levees
- Dikes
- Floodwall
- Culvert replacement
- Bridge Replacement
- Stream maintenance

Emergency Services Measures

- Reverse 911
- Swift water rescue equipment

The flood risk report and flood risk maps will be created prior to the issuance of preliminary maps. A fact sheet at the end of the report will summarize the results of the risk assessment process rolled up to the watershed level. Risk maps will contain all the visual data that was created as part of the Flood Risk Assessment stage, which will help to visualize the risk and promote risk awareness. All the above mentioned new products aim to identify mitigation actions and to reduce vulnerability.

RiskMAP
Increasing Resilience Together

FEMA

Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix A
Discovery Map

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

MISSISSIPPI GEOGRAPHIC INFORMATION

Discovery Map: *Tallahatchie Watershed Flood Hazard*

County	Status	Effective Date
Coahoma	Effective	2/2/2012
Grenada	Effective	5/24/2011
Leflore	Effective	5/16/2012
Panola	Post Preliminary	
Quitman	Post Preliminary	
Tallahatchie	Post Preliminary	
Yalobusha	Effective	9/17/2010

Source: FEMA

County	# of Paid Losses	Total Losses Paid	Average per Loss
Coahoma	294	$ 3,210,890.82	$ 10,921.40
Grenada	124	$ 1,900,234.95	$ 15,324.48
Leflore	309	$ 2,246,113.89	$ 7,268.98
Panola	42	$ 449,052.99	$ 10,691.74
Quitman	194	$ 1,807,759.40	$ 9,318.35
Tallahatchie	66	$ 321,948.93	$ 4,878.01
Yalobusha	0	$ -	$ -

Source: FEMA

Hazard Mitigation Plan Status

Jurisdiction	Approved Plan	Plan Expiration Date
Coahoma County	Yes	3/27/2017
Grenada County	Yes	6/11/2018
Leflore County	Yes	9/19/2017
Panola County	Yes	4/26/2017
Quitman County	Yes	2/28/2017
Tallahatchie County	Yes	2/27/2017
Yalobusha County	Yes	8/28/2017

Source: FEMA

N

0 2.5 5

Miles

Community	CID	Population
Batesville, City of	280126	134
Charleston, City of	280169	2,193
Clarksdale, City of	280039	3,219
Coahoma County (total)	280038	5,411
Crowder, Town of	280128	790
Glendora, Village of	280210	151
Greenwood, City of	280102	1,624
Grenada County (total)	280060	221
Jonestown, Town of	280041	1,262
Lambert, Town of	280139	1,638
Leflore County (total)	280101	2,309
Lyon, Town of	280043	311
Marks, City of	280140	1,146
Oakland, Town of	280360	592
Panola County (total)	280125	9,228
Quitman County (total)	280207	5,915
Sardis, Town of	280257	1,454
Sumner, Town of	280194	311
Tallahatchie County (total)	280206	11,911
Tutwiler, Town of	280197	3,325
Webb, Town of	280213	290
Yalobusha County (total)	280239	2,376

Source: 2010 US Census - based on selected census tracts within the watershed boundary

MAP SYMBOLOGY

Flood Hazard Area Risk
Source: FEMA Region IV

- 0.2%
- ZONE A
- ZONE AE
- ZONE AE (Floodway)
- ZONE AH
- ZONE AO
- X, Protected by Levee
- Area Not Included

CNMS Data
Source: FEMA Region IV

- Requires Assessment
- Validated

- Repetitive Losses (Past Claim Hotspot)
- Stream Gauge
- Streams
- Levees
- HUC 8 Sub-basin
- State Boundary
- County Boundary (Selected Counties)
- Municipal Boundary
- School
- Police
- Fire
- Hospital

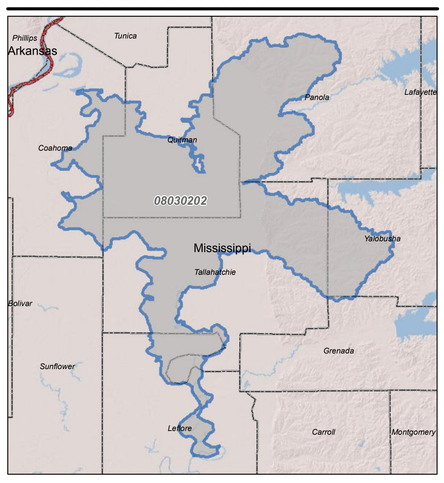
Dams
Source: MDEQ DAM SAFETY REGULATION

H - High Hazard
Dam failure may cause loss of life, serious damage to homes, industrial or commercial buildings, important public utilities, main highways or railroads. Dams constructed in existing or proposed residential, commercial or industrial areas will be classified as

L - Low Hazard
Dam failure may cause damage to farm buildings (excluding residences), agricultural land, or county or minor

- Interstate
- US Highway

WATERSHED LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM

Discovery Map: Flood Hazard

TALLAHATCHIE WATERSHED

Total stream miles	556
Detailed study miles	163
Approximate study miles	393
Population (2010)	37,371

HUC-8 Code
08030202
RELEASE DATE
PRELIMINARY

Discovery Map: *Tallahatchie Watershed Flood Hazard Risk*

County	Status	Effective Date
Coahoma	Effective	2/2/2012
Grenada	Effective	5/24/2011
Leflore	Effective	5/16/2012
Panola	Post Preliminary	
Quitman	Post Preliminary	
Tallahatchie	Post Preliminary	
Yalobusha	Effective	9/17/2010

Source: FEMA

County	# of Paid Losses	Total Losses Paid	Average per Loss
Coahoma	294	$ 3,210,890.82	$ 10,921.40
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Quitman	194	$ 1,807,759.40	$ 9,318.35
Tallahatchie	66	$ 321,948.93	$ 4,878.01
Yalobusha	0	$ -	$ -

Source: FEMA

Hazard Mitigation Plan Status

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Panola County	Yes	4/26/2017
Quitman County	Yes	2/28/2017
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Yalobusha County	Yes	8/28/2017

Source: FEMA

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Batesville, City of	280126	134
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Clarksdale, City of	280039	3,219
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Sumner, Town of	280194	311
Tallahatchie County (total)	280206	11,911
Tutwiler, Town of	280197	3,325
Webb, Town of	280213	290
Yalobusha County (total)	280239	2,376

Source: 2010 US Census - based on selected census tracts within the watershed boundary

N
0 2 4
Miles

MAP SYMBOLOGY

Flood Hazard Area Risk
Source: FEMA Region IV
- Very Low
- Low
- Medium
- High
- Very High

CNMS Data
Source: FEMA Region IV
- Requires Assessment
- Validated

- Repetitive Losses (Past Claim Hotspot)
- Stream Gauge
- Streams
- Levees
- HUC 8 Sub-basin
- State Boundary
- County Boundary (Selected Counties)
- Municipal Boundary
- School
- Police
- Fire
- Hospital

Dams
Source: MDEQ DAM SAFETY REGULATION

H - High Hazard
Dam failure may cause loss of life, serious damage to homes, industrial or commercial buildings, important public utilities, main highways or railroads. Dams constructed in existing or proposed residential, commercial or industrial areas will be classified as

L - Low Hazard
Dam failure may cause damage to farm buildings (excluding residences), agricultural land, or county or minor

- Interstate
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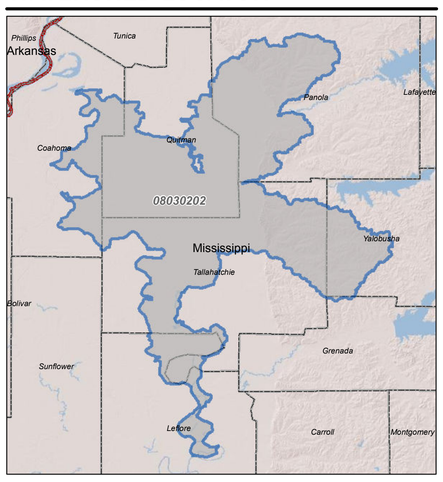

NATIONAL FLOOD INSURANCE PROGRAM
Discovery Map: Flood Hazard Risk

TALLAHATCHIE WATERSHED

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Detailed study miles	163
Approximate study miles	393
Population (2010)	37,371

HUC-8 Code
08030202
RELEASE DATE
PRELIMINARY

RiskMAP
Increasing Resilience Together

FEMA

Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix B
Community Contact List

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Town of Tillatoba, Yalobusha County

Yalobusha County EMA, Frank Hyde, confirmed that Tillatoba is not incorporated.

Tallahatchie Watershed, Mississippi

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City of Charleston, Tallahatchie County

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Town of Tillatoba, Yalobusha County

Yalobusha County EMA, Frank Hyde, confirmed that Tillatoba is not incorporated.

Tallahtchie Watershed, Mississippi

Emergency Management Agencies

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Tallahatchie County, All Communities except the Village of Glendora

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662-647-2540

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Yalobusha County

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Tallahatchie Watershed, Mississippi

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Senator Derrick T. Simmons - Senate District 12
Room: 404 B
P. O. Box 1018
Jackson, MS 39215
601-359-3221
dsimmons@senate.ms.gov

Senator Willie Simmons - Senate District 13
Room: 410
P. O. Box 1018
Jackson, MS 39215
601-359-3237
wsimmons@senate.ms.gov

Senator Lydia Chassaniol - Senate District 14
Room: 212 A
P. O. Box 1018
Jackson, MS 39215
601-359-3246
lchassaniol@senate.ms.gov

Senator David Jordan - Senate District 24
Room: 405 A
P. O. Box 1018
Jackson, MS 39215
601-359-3244
djordan@senate.ms.gov

Mississippi House of Representatives

Representative Clara Henderson Burnett - House District 009
Room: 400-E
P. O. Box 1018
Jackson, MS 39215
601-359-2422
cburnett@house.ms.gov

Representative Nolan Mettetal - House District 010
Room: 205-A
P. O. Box 1018
Jackson, MS 39215
601-359-3331
nmettetal@house.ms.gov

Representative Lataisha Jackson - House District 011
P. O. Box 1018
Jackson, MS 39215
662-526-5326
ljackson@house.ms.gov

Representative Chuck Espy - House District 026
Room: 100-C
P. O. Box 1018
Jackson, MS 39215
601-359-9391
cespy@house.ms.gov

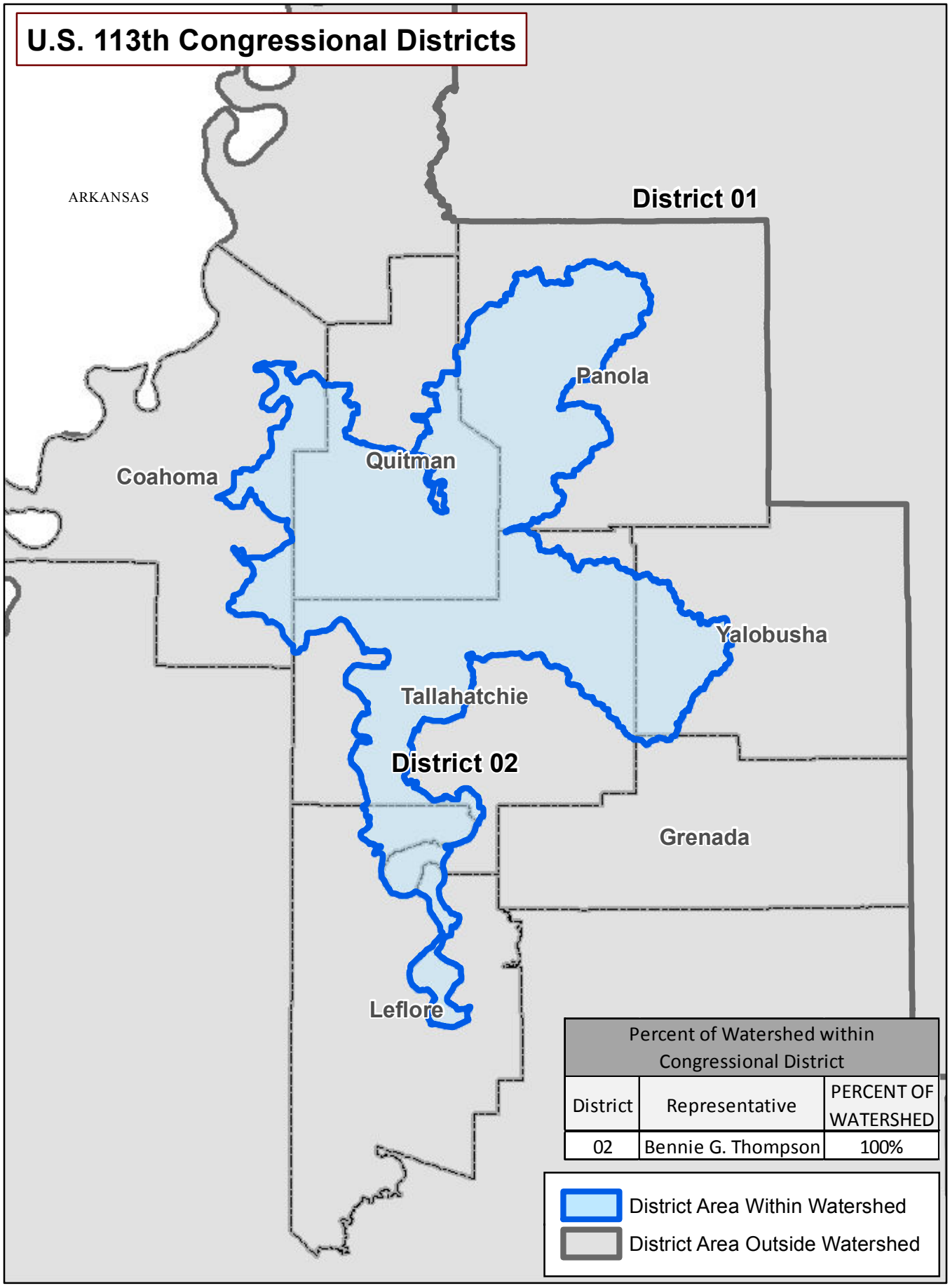
Representative Robert E. Huddleston - House District 030
Room: 400-E
P. O. Box 1018
Jackson, MS 39215
601-359-2418

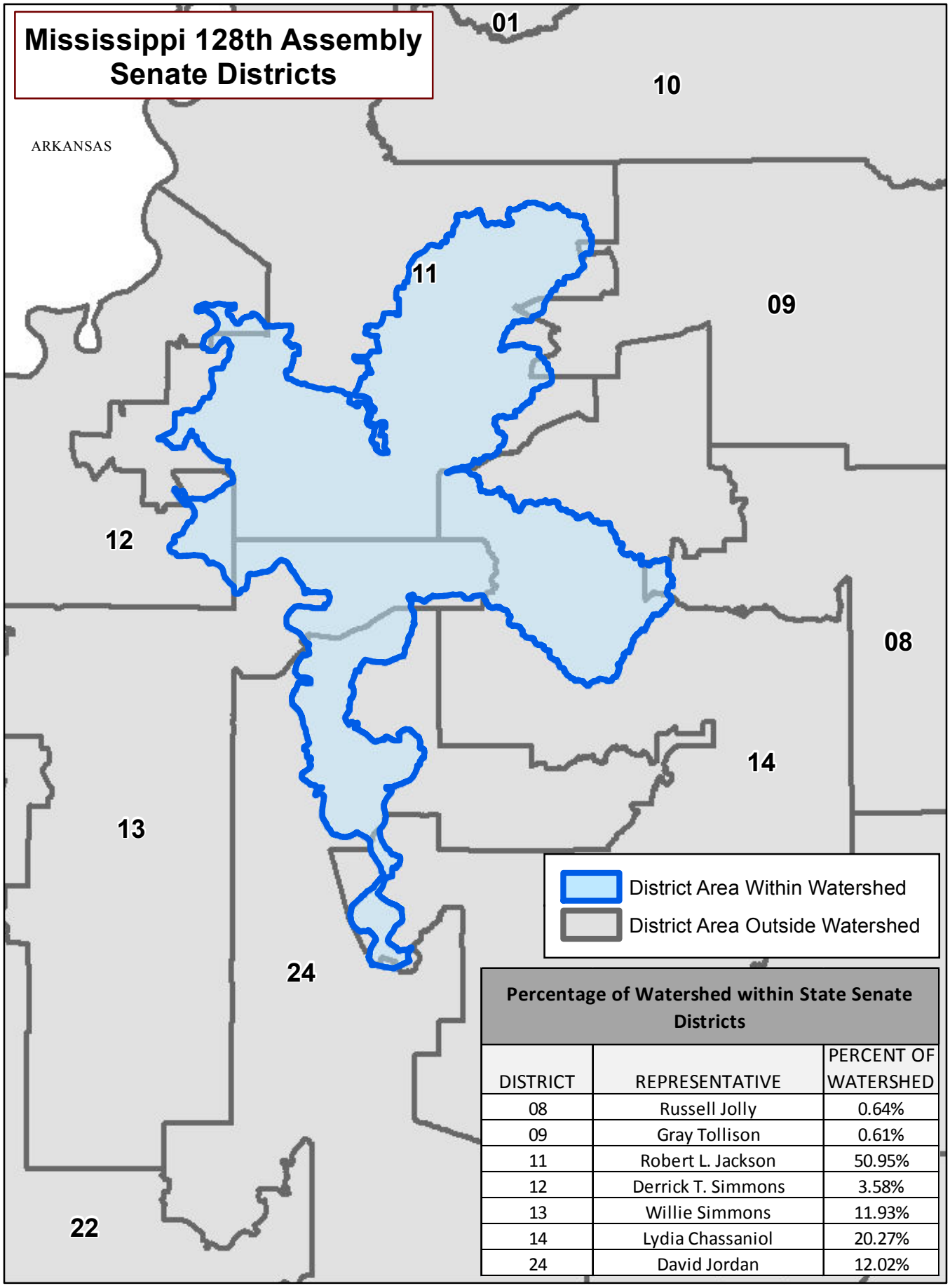
Representative Willie J. Perkins, Sr. - House District 032
Room: BSMNT
P. O. Box 1018
Jackson, MS 39215
601-359-4082
wperkins@house.ms.gov

Representative Tommy Reynolds - House District 033
Room: 201M-6
P. O. Box 1018
Jackson, MS 39215
601-359-9394
treynolds@house.ms.gov

Representative Linda Whittington - House District 034
Room: 400-F
P. O. Box 1018
Jackson, MS 39215
601-359-9492
lwhittington@house.ms.gov

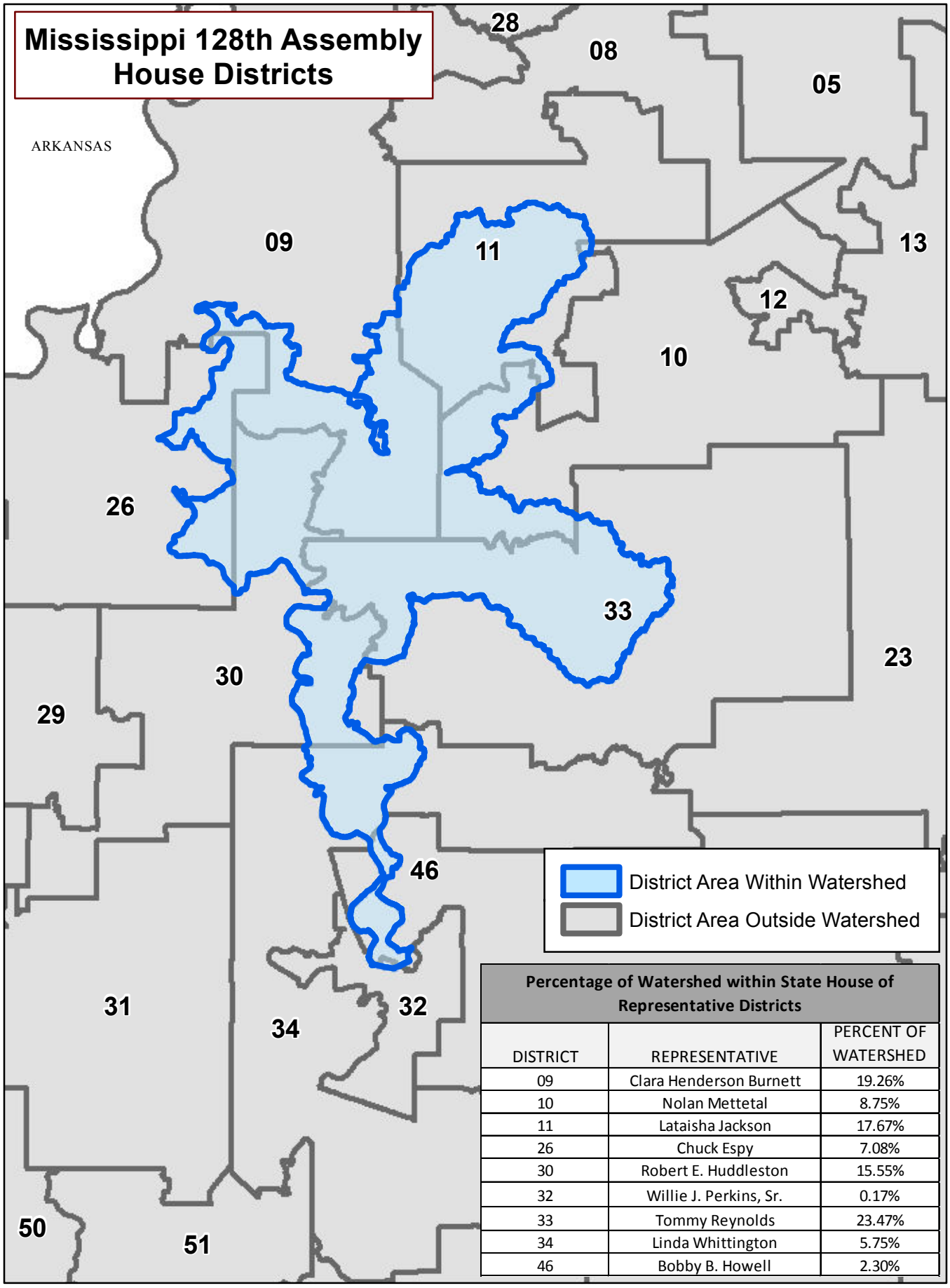
Representative Bobby B. Howell - House District 046
Room: 104-A
P. O. Box 1018
Jackson, MS 39215
601-359-2428


U.S. 113th Congressional Districts
ARKANSAS
District 01
Panola
Quitman
Coahoma
Yalobusha
Tallahatchie
District 02
Grenada
Leflore
Percent of Watershed within Congressional District
District
Representative
PERCENT OF WATERSHED
02
Bennie G. Thompson
100%
District Area Within Watershed
District Area Outside Watershed



Percentage of Watershed within State Senate Districts

DISTRICT	REPRESENTATIVE	PERCENT OF WATERSHED
08	Russell Jolly	0.64%
09	Gray Tollison	0.61%
11	Robert L. Jackson	50.95%
12	Derrick T. Simmons	3.58%
13	Willie Simmons	11.93%
14	Lydia Chassaniol	20.27%
24	David Jordan	12.02%



Percentage of Watershed within State House of Representative Districts		
DISTRICT	REPRESENTATIVE	PERCENT OF WATERSHED
09	Clara Henderson Burnett	19.26%
10	Nolan Mettetal	8.75%
11	Lataisha Jackson	17.67%
26	Chuck Espy	7.08%
30	Robert E. Huddleston	15.55%
32	Willie J. Perkins, Sr.	0.17%
33	Tommy Reynolds	23.47%
34	Linda Whittington	5.75%
46	Bobby B. Howell	2.30%

RiskMAP
Increasing Resilience Together

FEMA

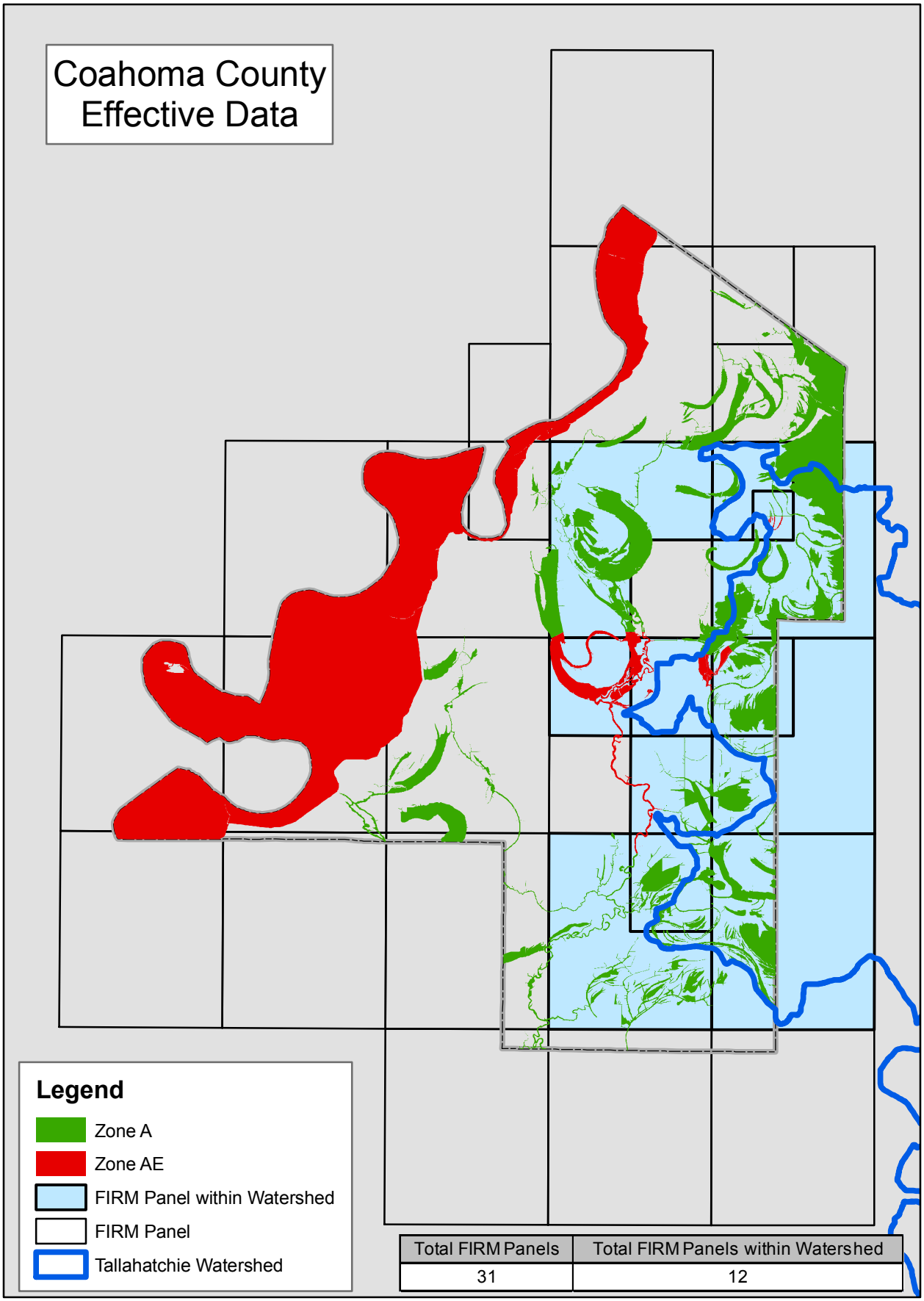
Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

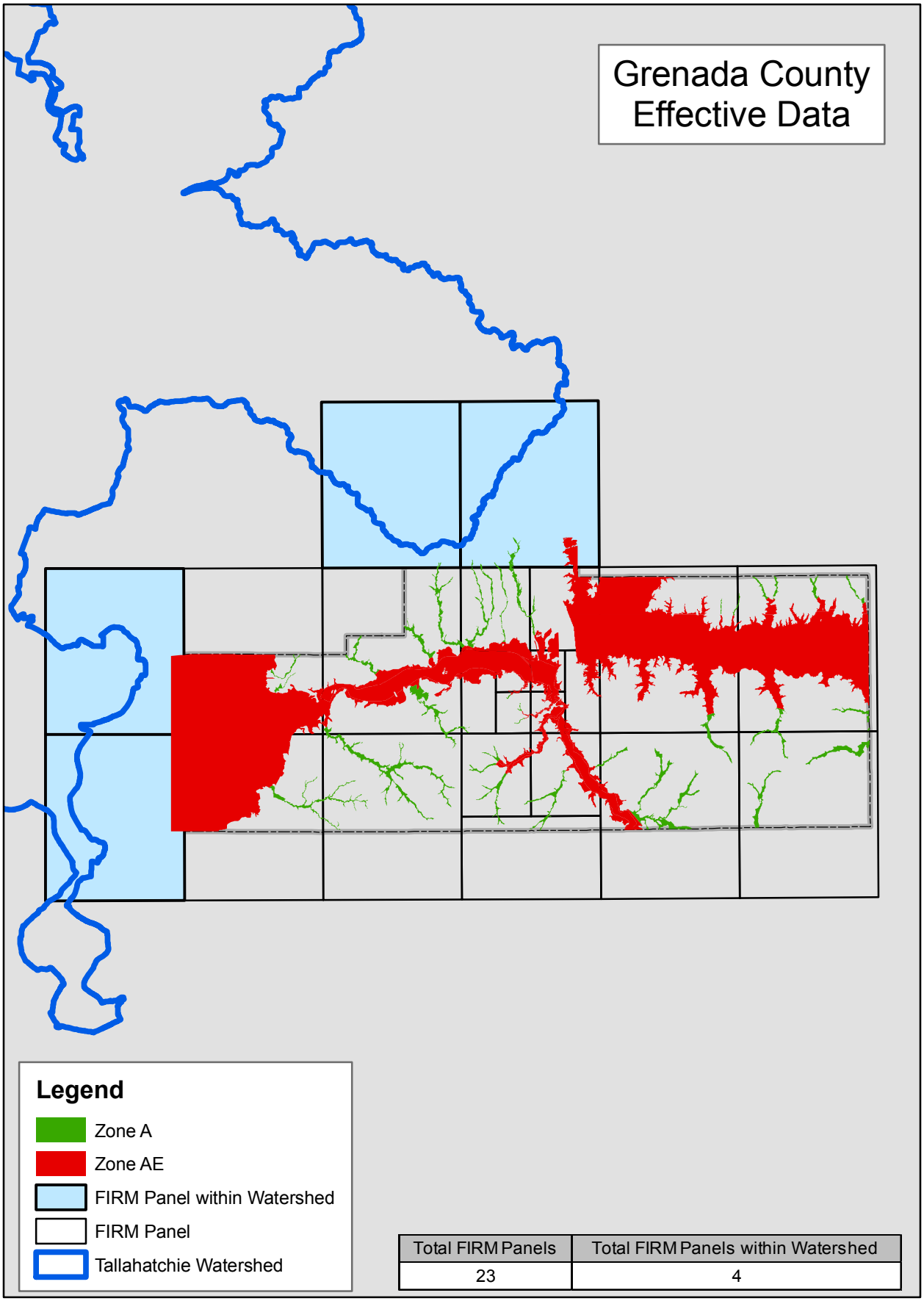
Appendix C
Effective Panel Scheme

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

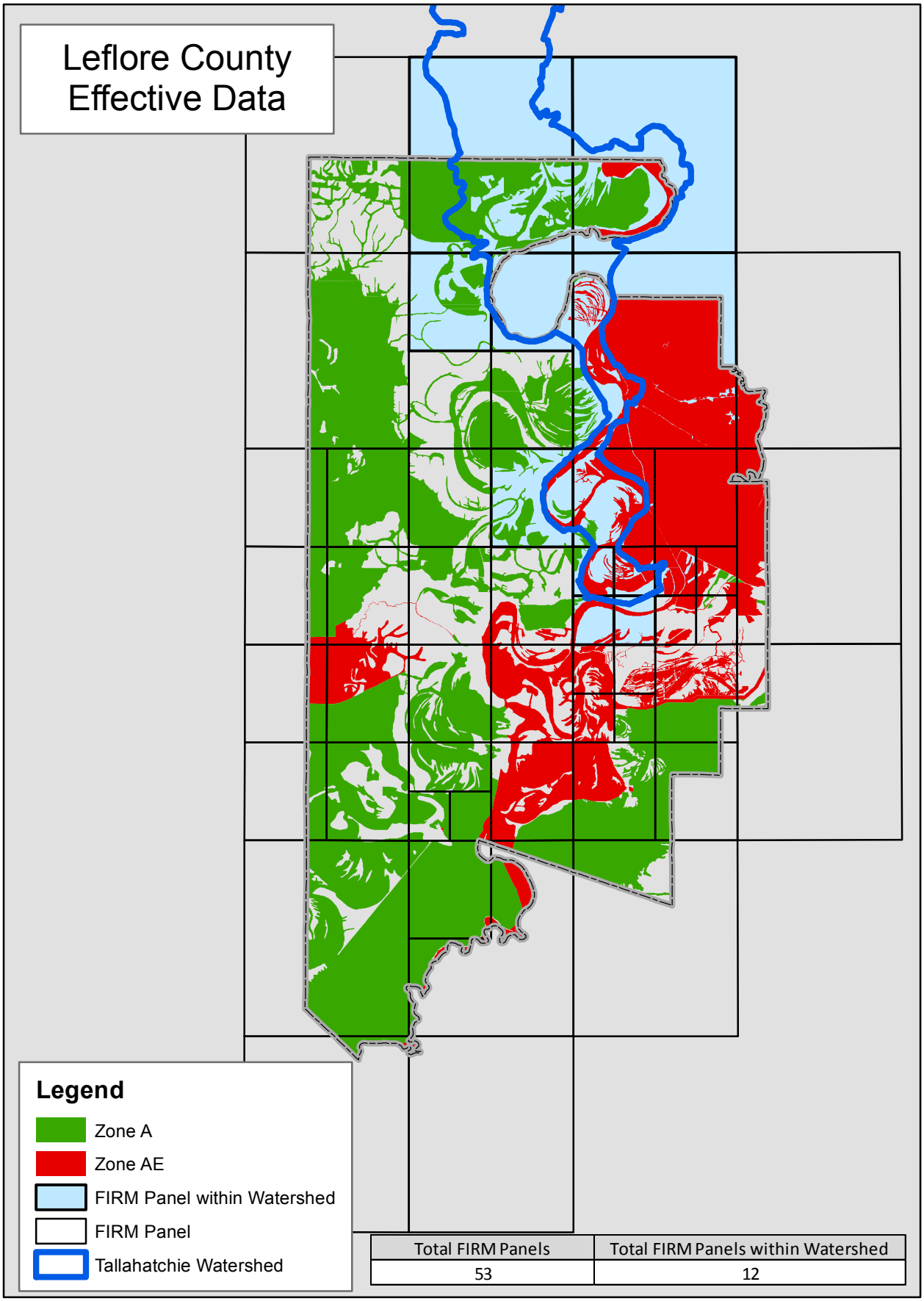
MISSISSIPPI GEOGRAPHIC INFORMATION


Coahoma County
Effective Data
Legend
Zone A
Zone AE
FIRM Panel within Watershed
FIRM Panel
Tallahatchie Watershed
Total FIRM Panels
Total FIRM Panels within Watershed
31
12



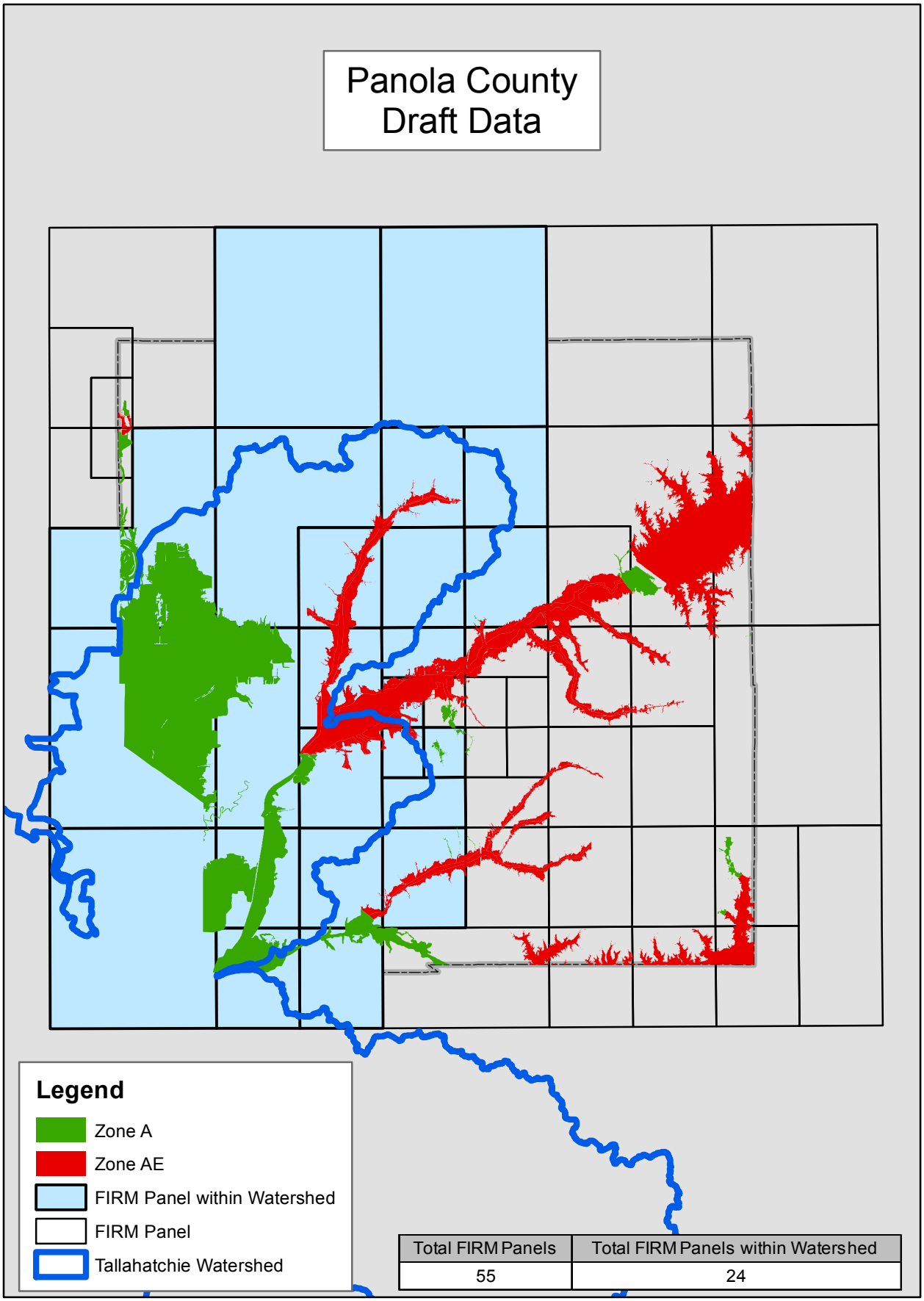
Total FIRM Panels	Total FIRM Panels within Watershed
23	4

Leflore County Effective Data

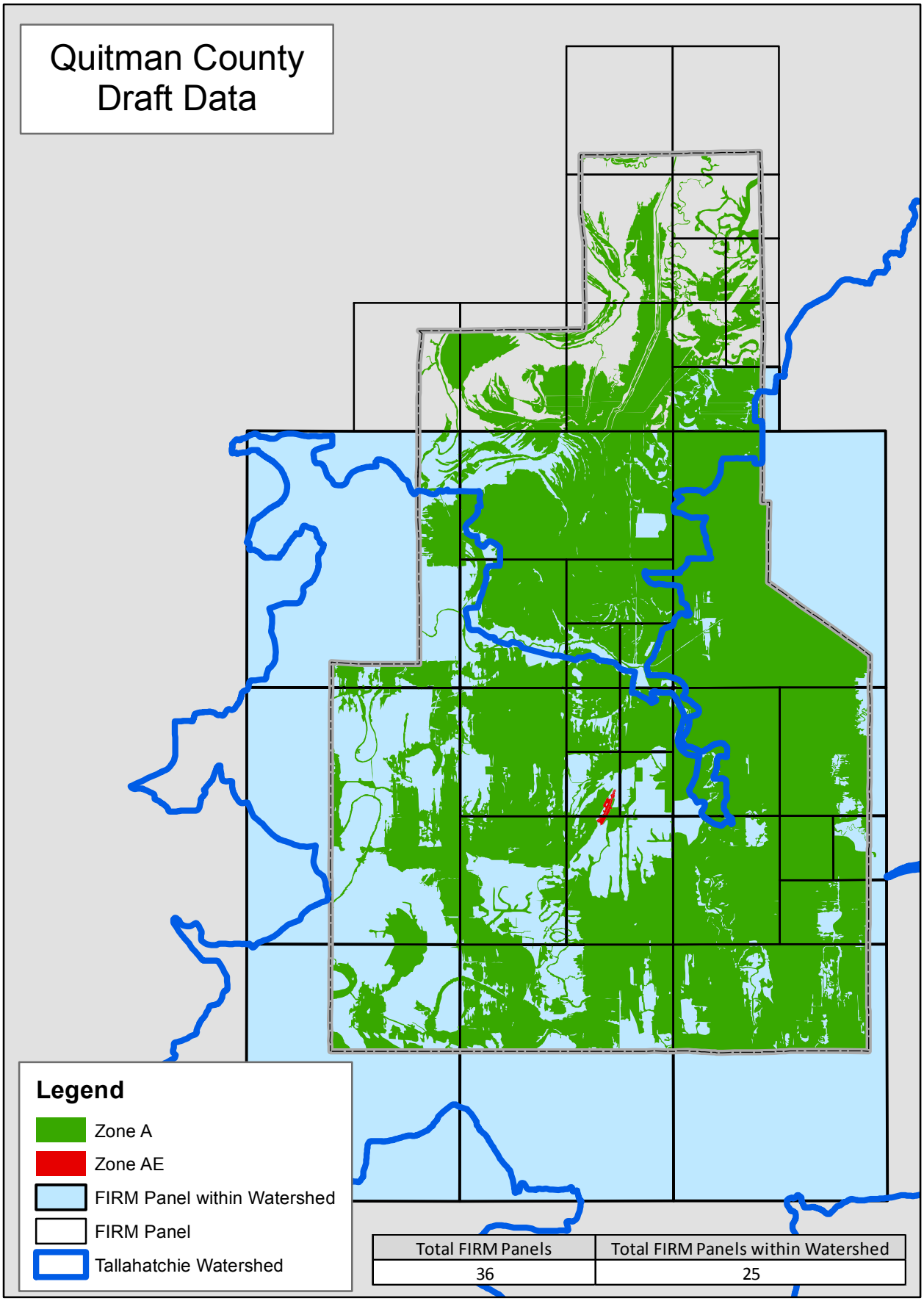


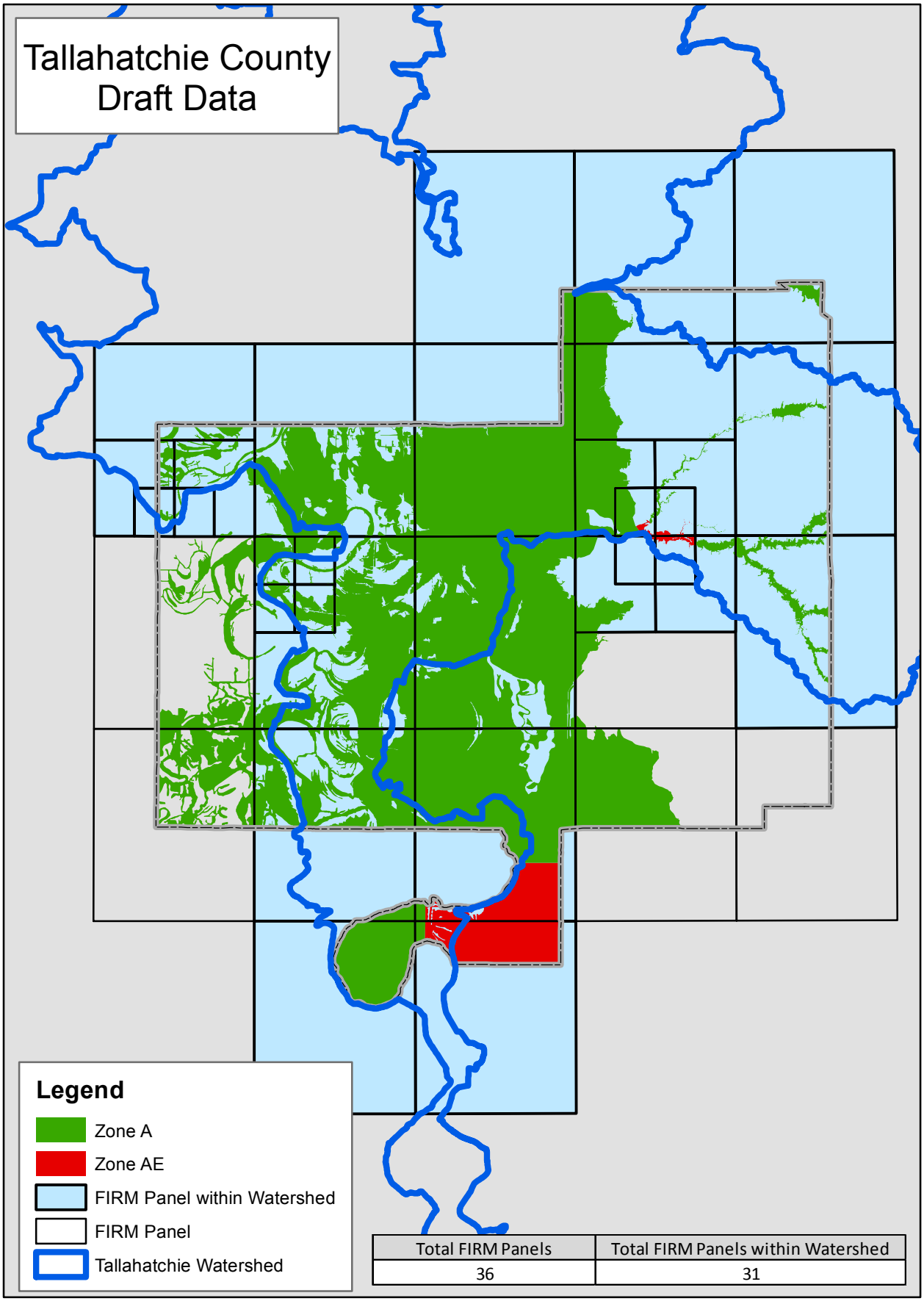
Total FIRM Panels	Total FIRM Panels within Watershed
53	12

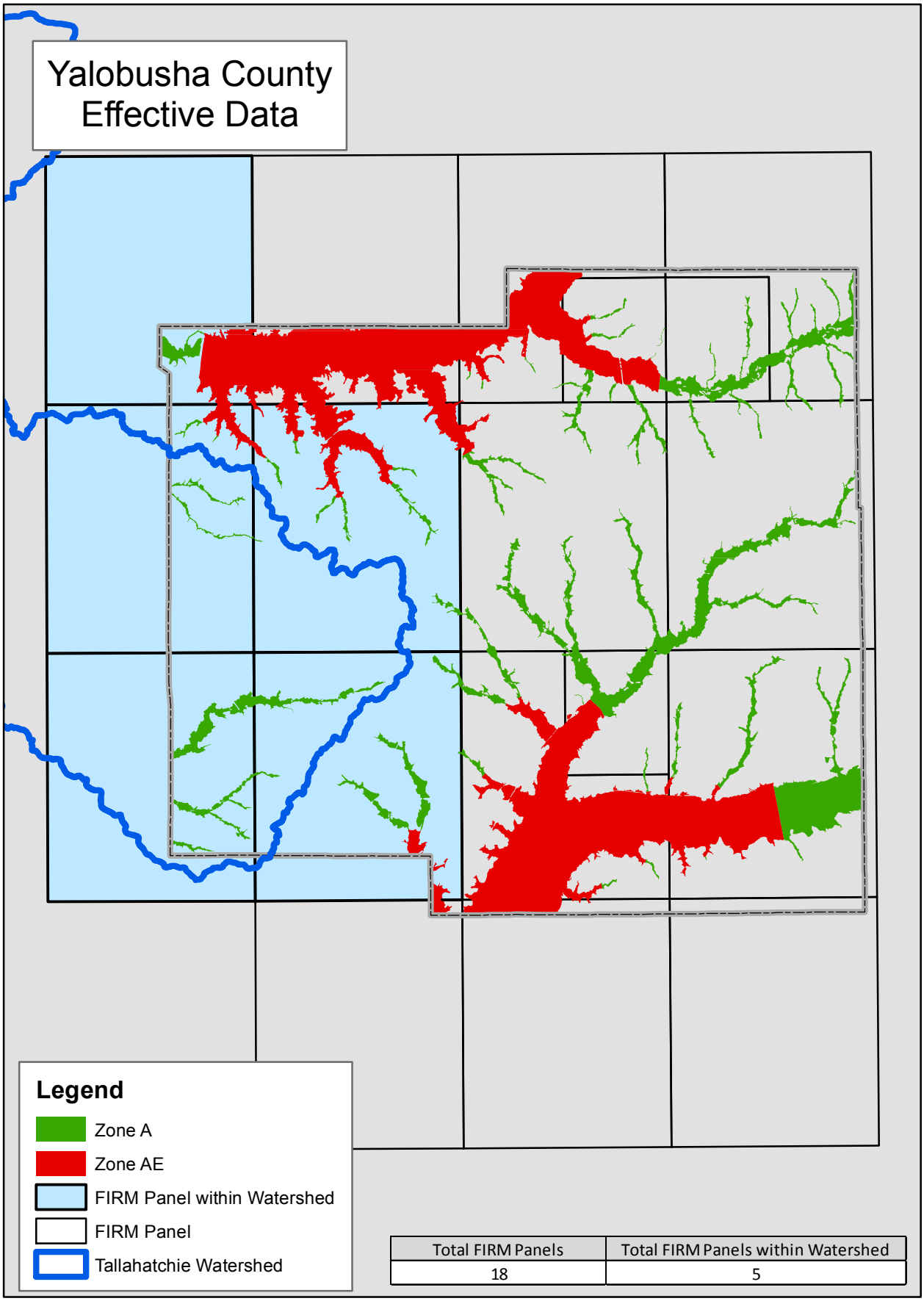
Panola County Draft Data



Total FIRM Panels	Total FIRM Panels within Watershed
55	24


Quitman County
Draft Data
Legend
Zone A
Zone AE
FIRM Panel within Watershed
FIRM Panel
Tallahatchie Watershed
Total FIRM Panels
Total FIRM Panels within Watershed
36
25


Tallahatchie County
Draft Data
Legend
Zone A
Zone AE
FIRM Panel within Watershed
FIRM Panel
Tallahatchie Watershed
Total FIRM Panels
Total FIRM Panels within Watershed
36
31


Yalobusha County
Effective Data
Legend
Zone A
Zone AE
FIRM Panel within Watershed
FIRM Panel
Tallahatchie Watershed
Total FIRM Panels
Total FIRM Panels within Watershed
18
5

RiskMAP
Increasing Resilience Together

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Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

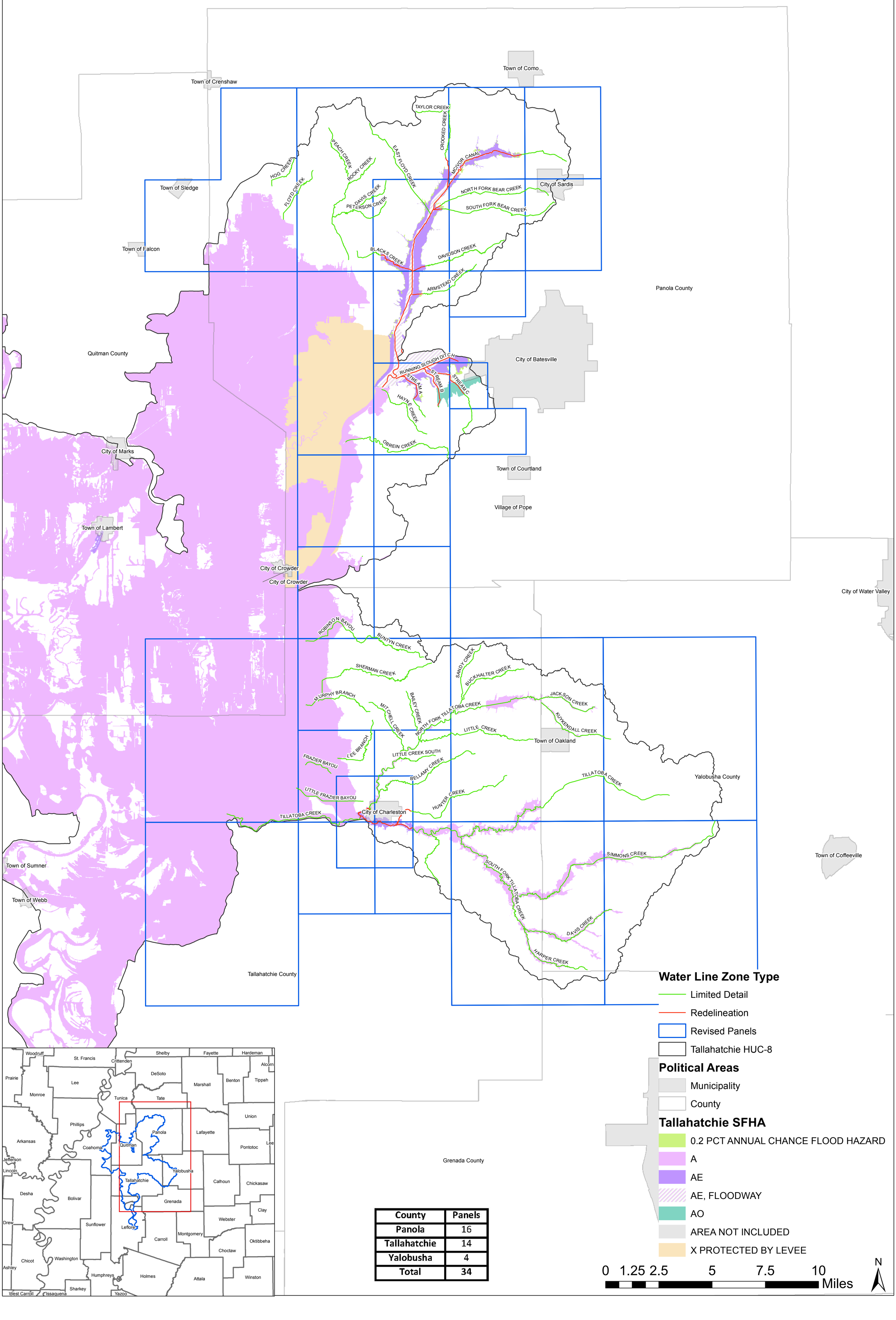
Appendix D
Proposed Panel Scheme

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

MISSISSIPPI GEOGRAPHIC INFORMATION

Tallahatchie Scoping - 08030202
Proposed Revised Panels



County	Panels
Panola	16
Tallahatchie	14
Yalobusha	4
Total	34

Water Line Zone Type

- Limited Detail
- Redelineation
- Revised Panels
- Tallahatchie HUC-8

Political Areas

- Municipality
- County

Tallahatchie SFHA

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AO
- AREA NOT INCLUDED
- X PROTECTED BY LEVEE

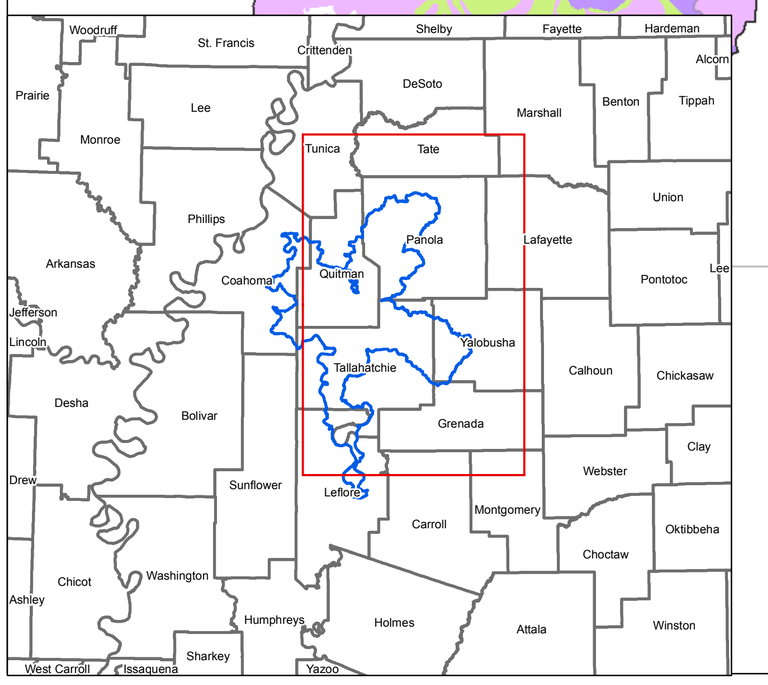
0 1.25 2.5 5 7.5 10 Miles

N

Tallahatchie Scoping - 08030202
Proposed Revised Panels - Panola County

Town of Como
Town of Crenshaw
Town of Sledge
Town of Falcon
Quitman County
Coahoma County
City of Marks
Town of Lambert
City of Crowder
Panola County
City of Sardis
City of Batesville
Town of Courtland
Village of Pope
City of Water Valley
Town of Oakland
Yalobusha County
Town of Coffeeville
Town of Tutwiler
City of Charleston
Town of Sumner
Town of Webb
Tallahatchie County
City of Glendora

HOG CREEK
FLOYD CREEK
PEACH CREEK
PETERSON CREEK
DAVIS CREEK
EAST FLOYD CREEK
CROOKED CREEK
McIVOR CANAL
NORTH FORK BEAR CREEK
SOUTH FORK BEAR CREEK
BLACKS CREEK
DAVIDSON CREEK
ARMSTEAD CREEK
STREAM A
STREAM B
STREAM C
HAYNE CREEK
OBREIN CREEK
ROBINSON BAYOU
BUNTYN CREEK
SHERMAN CREEK
SANDY CREEK
BUCKHALTER CREEK
JACKSON CREEK
MITCHELL CREEK
NORTH FORK TILLATOBA CREEK
LITTLE CREEK
LEE BRANCH
FRAZIER BAYOU
LITTLE CREEK SOUTH
BELLAMY CREEK
LITTLE FRAZIER BAYOU
HUNTER CREEK
TILLATOBA CREEK
SOUTH FORK TILLATOBA CREEK
SIMMONS CREEK
DAVIS CREEK
HARPER CREEK



County	Panels
Panola	16
Tallahatchie	14
Yalobusha	4
Total	34

Water Line Zone Type
- Limited Detail
- Redelineation

- Proposed Revised Panel
- Effective Panel
- Tallahatchie HUC-8

Political Areas
- Municipality
- County

Tallahatchie SFHA
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AO
- AREA NOT INCLUDED
- X PROTECTED BY LEVEE

0 1.5 3 6 9 12 Miles

N

Tallahatchie Scoping - 08030202
Proposed Revised Panels - Tallahatchie County

Town of Como
Town of Crenshaw
Town of Lula
Town of Sledge
Town of Falcon
Town of Coahoma
Quitman County
Panola County
City of Sardis
City of Batesville
Town of Jonestown
City of Marks
Coahoma County
Town of Courtland
Village of Pope
Town of Lyon
City of Clarksdale
Town of Lambert
City of Crowder
Town of Oakland
Yalobusha County
Town of Tutwiler
City of Charleston
Town of Sumner
Tallahatchie County
Town of Webb
City of Glendora
City of Grenada
Grenada County
Leflore County
City of Itta Bena

HOG CREEK
FLOYD CREEK
PEACH CREEK
DAVIS CREEK
PETERSON CREEK
EAST FLOYD CREEK
CROOKED CREEK
MCIVOR CANAL
NORTH FORK BEAR CREEK
SOUTH FORK BEAR CREEK
BLACKS CREEK
DAVIDSON CREEK
ARMSTEAD CREEK
STREAM A
STREAM B
STREAM C
HAYNE CREEK
OBREIN CREEK
ROBINSON BAYOU
BUNTYN CREEK
SHERMAN CREEK
SANDY CREEK
BUCKHALTER CREEK
JACKSON CREEK
MITCHELL CREEK
NORTH FORK TILLATOBA CREEK
LITTLE CREEK
LEE BRANCH
LITTLE CREEK SOUTH
FRAZIER BAYOU
BELLAMY CREEK
TILLATOBA CREEK
LITTLE FRAZIER BAYOU
HUNTER CREEK
SIMMONS CREEK
SOUTH FORK TILLATOBA CREEK
DAVIS CREEK
HARPER CREEK

County	Panels
Panola	16
Tallahatchie	14
Yalobusha	4
Total	34

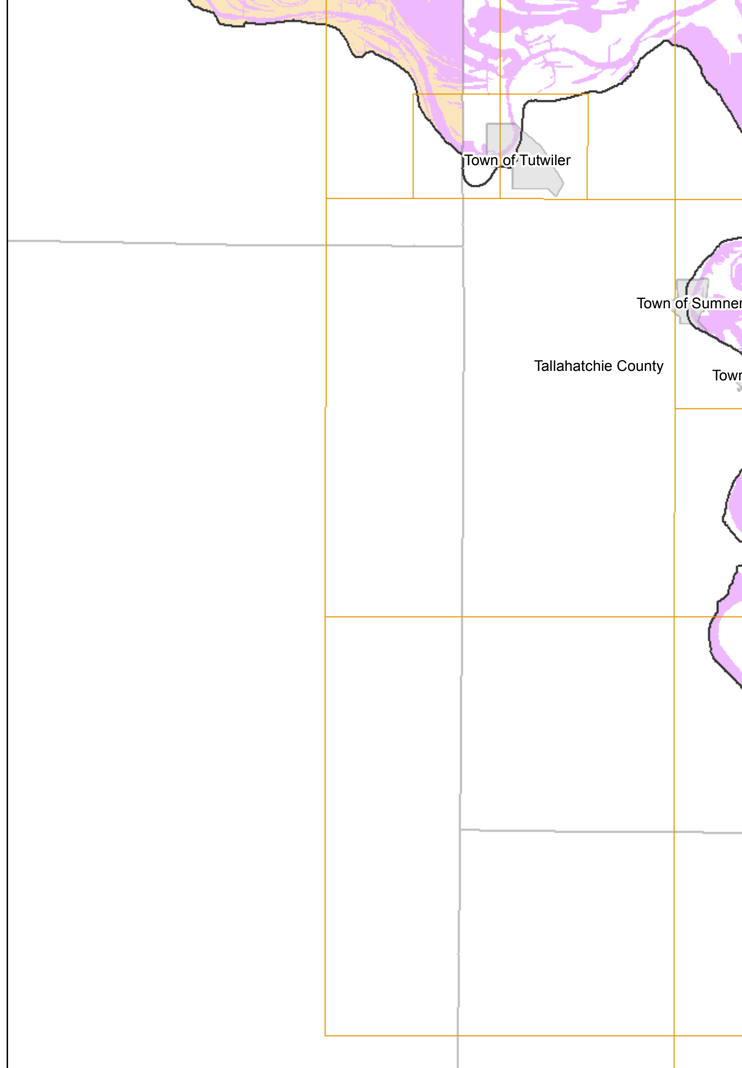
Water Line Zone Type
- Limited Detail
- Redelineation
- Proposed Revised Panel
- Effective Panel
- Tallahatchie HUC-8

Political Areas
- Municipality
- County

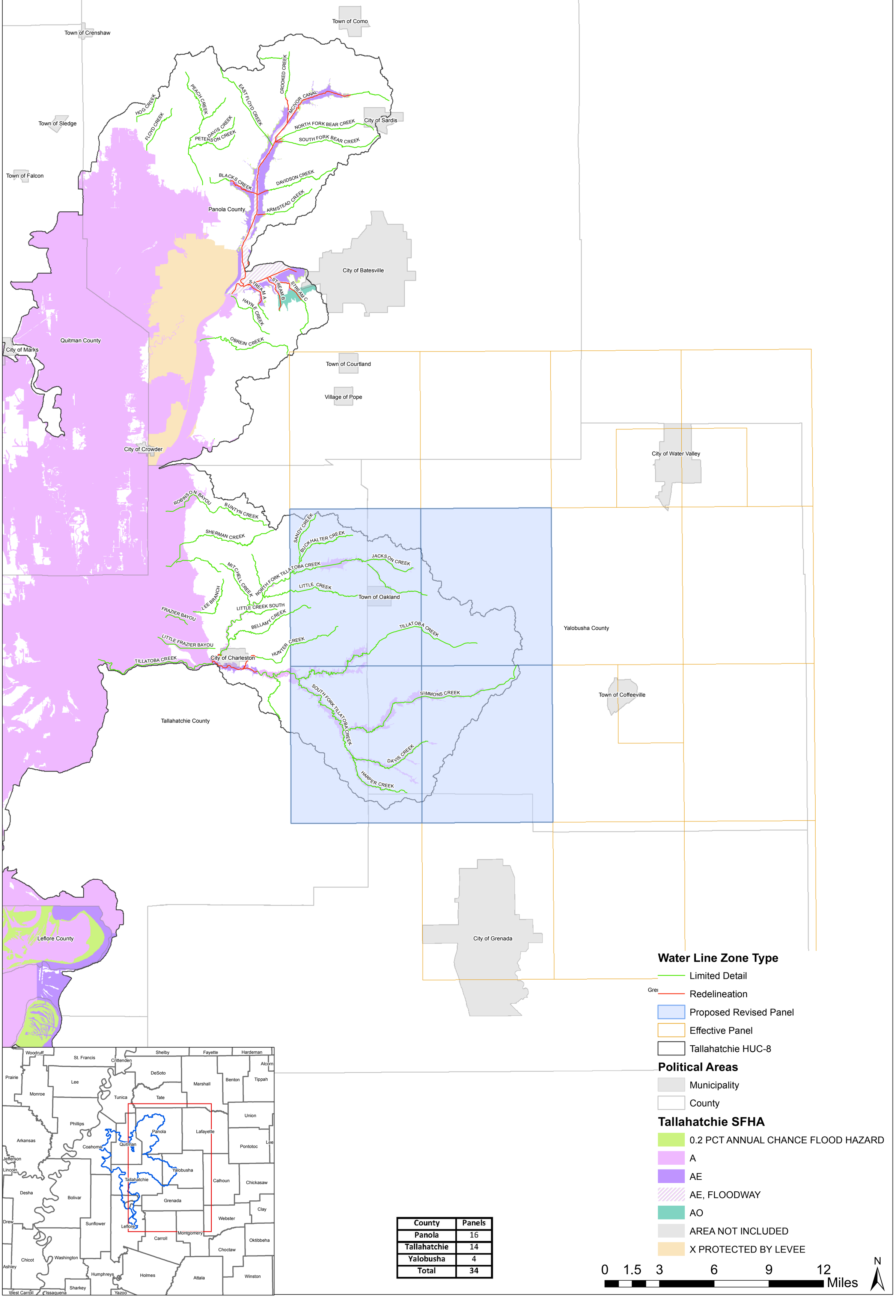
Tallahatchie SFHA
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AO
- AREA NOT INCLUDED
- X PROTECTED BY LEVEE

0 1.5 3 6 9 12 Miles

N



Tallahatchie Scoping - 08030202
Proposed Revised Panels - Yalobusha County



County	Panels
Panola	16
Tallahatchie	14
Yalobusha	4
Total	34

Water Line Zone Type
- Limited Detail
- Redelineation
- Proposed Revised Panel
- Effective Panel
- Tallahatchie HUC-8

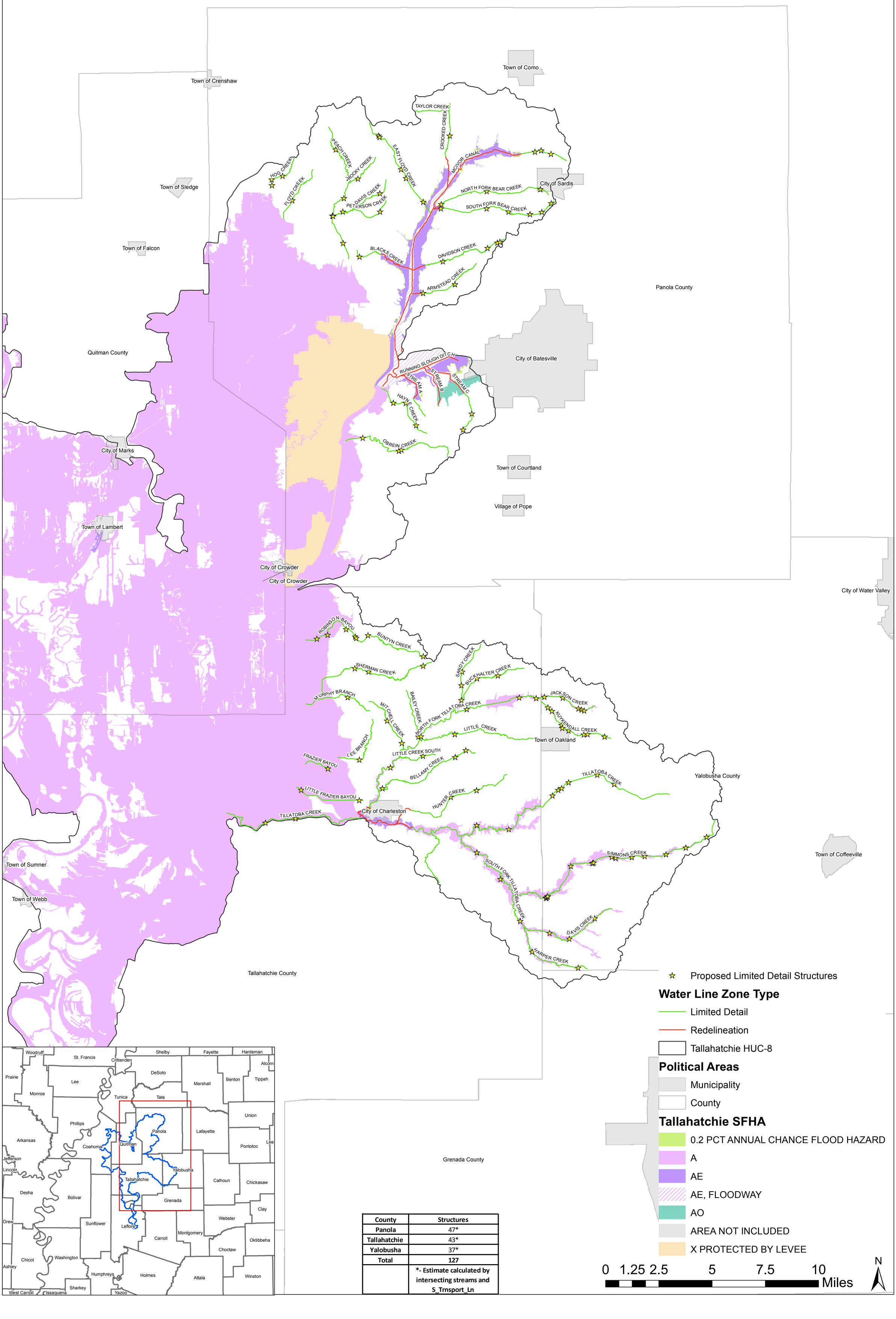
Political Areas
- Municipality
- County

Tallahatchie SFHA
- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AE, FLOODWAY
- AO
- AREA NOT INCLUDED
- X PROTECTED BY LEVEE

0 1.5 3 6 9 12 Miles

N

Tallahatchie 08030202
Proposed Limited Detail Study Structures



County	Structures
Panola	47*
Tallahatchie	43*
Yalobusha	37*
Total	127
	*- Estimate calculated by intersecting streams and S_Trnsport_Ln

RiskMAP
Increasing Resilience Together

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Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix E
Letters of Map Change (LOMCs)

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

MISSISSIPPI GEOGRAPHIC INFORMATION

Significant LOMRs

LOMRS ISSUED ON CURRENT EFFECTIVE FRIMS[1]					
Community Name	**Case No.**	**Effective Date**	**Map Panel No.**	**Flood Source**	**Project ID**
LEFLORE COUNTY*, GREENWOOD, CITY OF	06-04-BU48P[2]	09/27/2007	2801010150C; 2801020005C	Canal 29; Canal 29A; Canal 37; Canal 37A; Craig Canal; Old Pelucia Creek; Palusha Bayou; Walker Lake Canal	Rising Sun Subdivision
PANOLA COUNTY*, BATESVILLE, CITY OF	04-04-401P	03/03/2006	2801260005C	Whitten Creek	Keating Grove

LOMRS ISSUED ON PREVIOUSLY EFFECTIVE FRIMS[1]					
Community Name	**Case No.**	**Effective Date**	**Map Panel No.**	**Flood Source**	**Project ID**
COAHOMA COUNTY*, CLARKSDALE, CITY OF	99-04-2936P3	08/31/1999	2800390005B	Mill Creek	Mill Creek – to correct Zone A mismatch between city and county

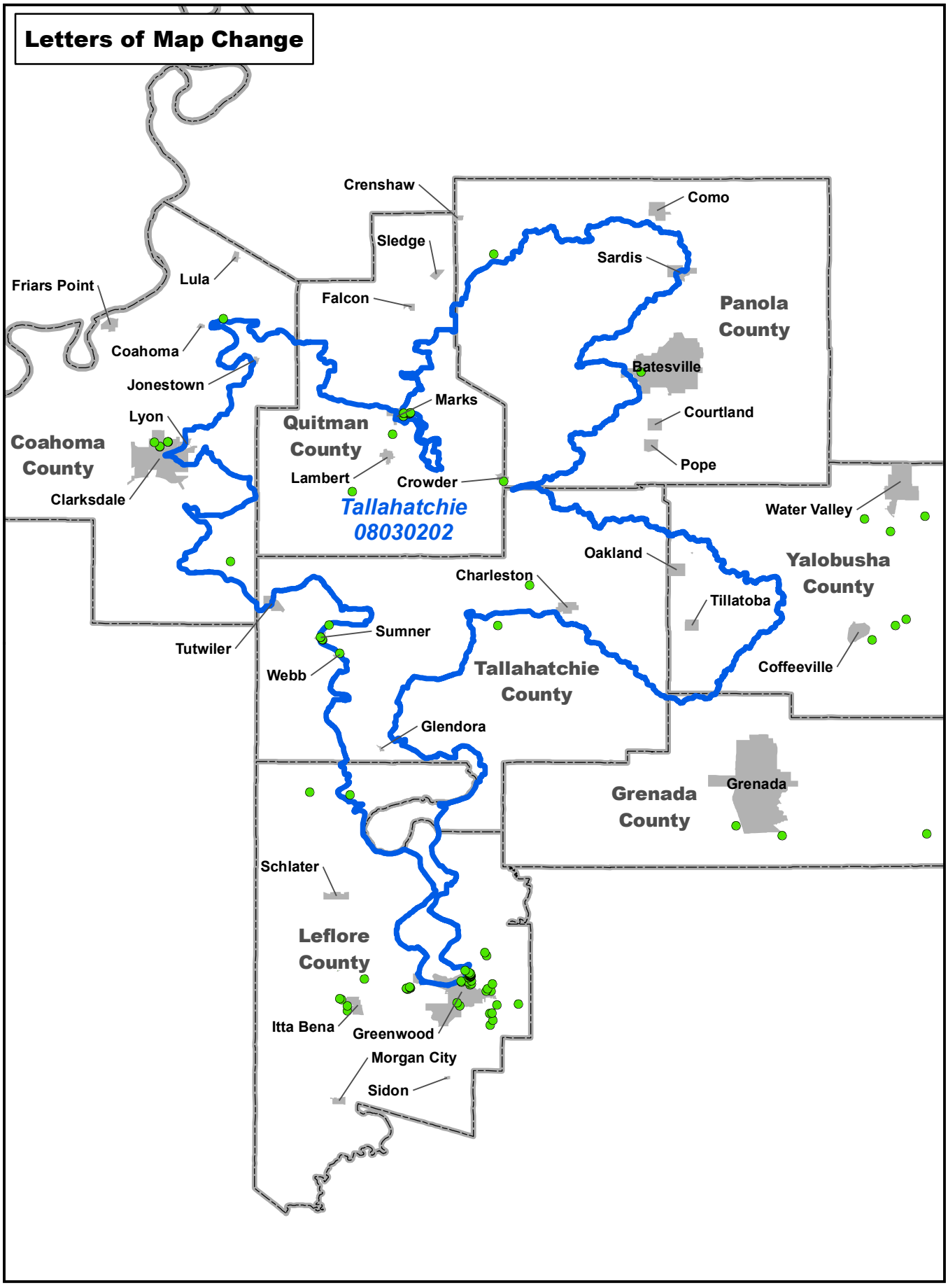
[1]Query area includes the following counties: Coahoma, Grenada, Leflore, Panola, Quitman, Tallahatchie, and Yalobusha.

[2]This LOMR was incorporated into the 2/28/2011 Preliminary DFIRMS in study 08-04-6585S; which was put on hold due to the Levees.

LeFlore County	Current Effective Maps	3/25/1983	08-04-6585S (study on hold)
Greenwood, City of	Current Effective Maps	6/25/1982	

[3]This LOMR is not referenced in the current FIS reports for Coahoma County.

Coahmoa Co* & Clarksdale, City of	Current Effective Maps	2/2/2012	08-04-6579S (study complete – LOMR superseded due to Revised H&H)


Letters of Map Change
Crenshaw
Como
Sledge
Sardis
Friars Point
Lula
Falcon
Panola
County
Coahoma
Batesville
Jonestown
Marks
Courtland
Lyon
Quitman
County
Pope
Coahoma
County
Lambert
Crowder
Clarksdale
Tallahatchie
08030202
Water Valley
Oakland
Yalobusha
County
Charleston
Tillatoba
Sumner
Tutwiler
Webb
Tallahatchie
County
Coffeeville
Glendora
Grenada
Grenada
County
Schlater
Leflore
County
Itta Bena
Greenwood
Morgan City
Sidon

The green dots on the preceding page indicate an effective Letter of Map Change (LOMC).

RiskMAP
Increasing Resilience Together

FEMA

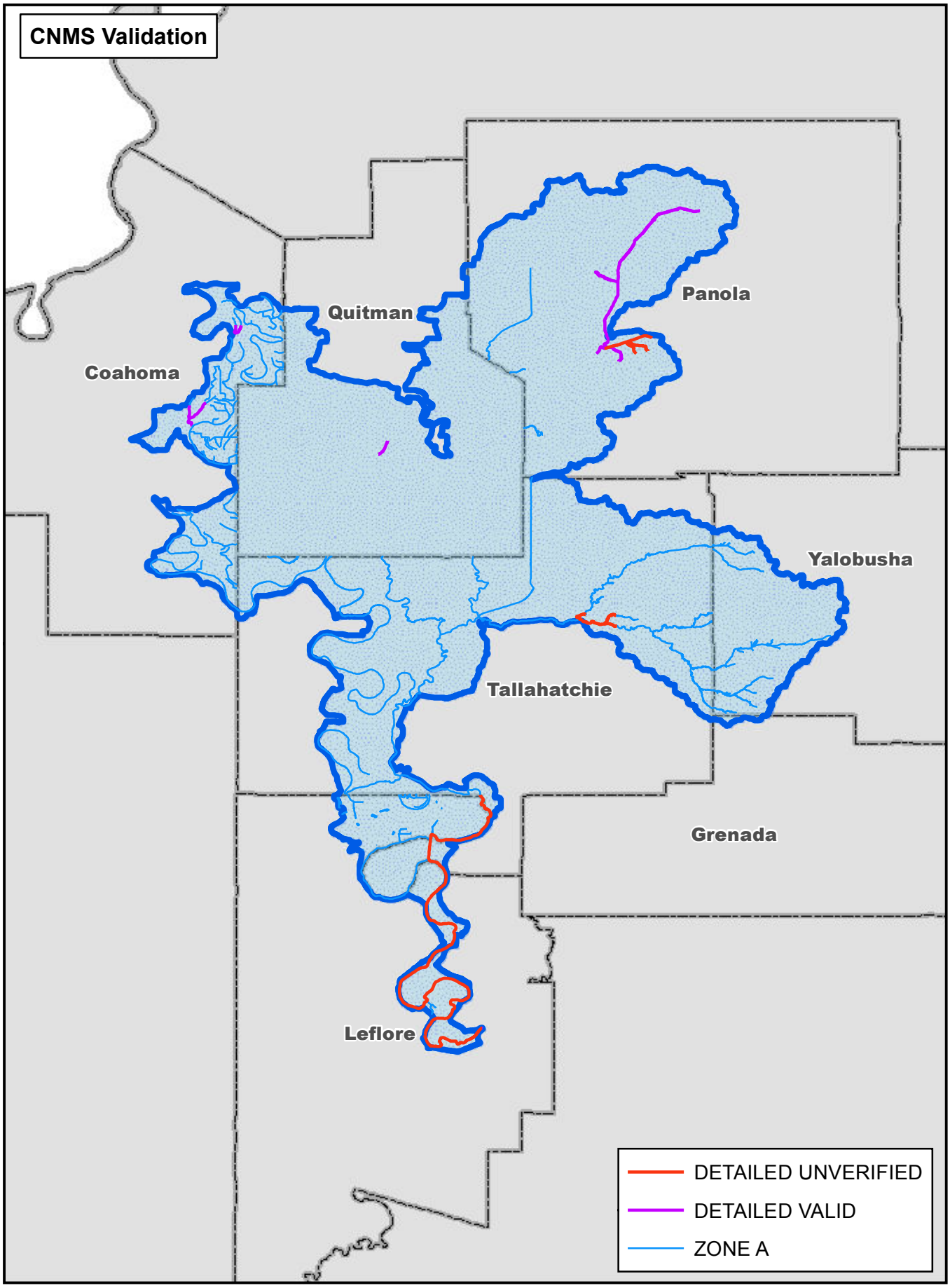
Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix F
CNMS Results

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

MISSISSIPPI GEOGRAPHIC INFORMATION


CNMS Validation
Panola
Quitman
Coahoma
Yalobusha
Tallahatchie
Grenada
Leflore
DETAILED UNVERIFIED
DETAILED VALID
ZONE A

Coordinated Needs Management Strategy (CNMS) Results – Unverified Streams Tallahatchie Watershed			
FLOODING SOURCE	**SUM OF REACH MILES**	**NO. OF FAILED CRITICAL ELEMENTS**	**NO. OF FAILED SECONDARY ELEMENTS**
HUNTER CREEK	1.4	0	5
NORTH FORK TILLATOBA CREEK	0.9	0	4
RUNNING SLOUGH DITCH	3.1	0	4
STREAM B	1.2	0	4
STREAM C	1.6	0	4
TALLAHATCHIE RIVER	41.6	4	4
TILLATOBA CREEK	2.9	0	5
TOTAL	**52.7**	**---**	**---**

Coordinated Needs Management Strategy (CNMS) Results – Valid Streams Tallahatchie Watershed			
FLOODING SOURCE	**SUM OF REACH MILES**	**NO. OF FAILED CRITICAL ELEMENTS**	**NO. OF FAILED SECONDARY ELEMENTS**
BLACKS CREEK	2.2	0	2
LAKE BAYOU	1.1	0	2
LITTLE TALLAHATCHIE RIVER	23.6	0	2
MCIVOR CANAL	13.6	0	2
MOORE BAYOU	1.4	0	0
OPOSSUM BAYOU TRIBUTARY	1.3	0	0
OXBOW BAYOU	2.5	0	2
STREAM A	1.7	0	3
YALOBUSHA RIVER	22.2	0	2
YAZOO RIVER	40.4	0	2
TOTAL	**110.3**	**---**	**---**

Coordinated Needs Management Strategy (CNMS) Results – Zone A Valid Streams Tallahatchie Watershed			
FLOODING SOURCE	**SUM OF REACH MILES**	**NO. OF FAILED CRITICAL ELEMENTS**	**NO. OF FAILED SECONDARY ELEMENTS**
BEECH BAYOU	1.2	0	0
BELLAMY CREEK	1.5	0	0
CASSIDY BAYOU	38.3	0	0
DAVIS CREEK	5.1	0	0
FISH BAYOU	1.9	0	0
HARPER CREEK	1.9	0	0
HOPSON BAYOU	2.7	0	0
HUNTER CREEK	1.6	0	0
JACKSON CREEK	3.0	0	0
KUYKENDALL CREEK	4.1	0	0
LITTLE CREEK	0.7	0	0
MITCHELL CREEK	0.4	0	0
NORTH FORK TILLATOBA CREEK	13.8	0	0
PANOLA QUITMAN FLOODWAY	13.2	0	0

Coordinated Needs Management Strategy (CNMS) Results – Zone A Valid Streams Tallahatchie Watershed			
FLOODING SOURCE	**SUM OF REACH MILES**	**NO. OF FAILED CRITICAL ELEMENTS**	**NO. OF FAILED SECONDARY ELEMENTS**
SIMMONS CREEK	11.2	0	0
SOUTH FORK TILLATOBA CREEK	7.5	0	0
TALLAHATCHIE RIVER	55.0	0	0
TILLATOBA CREEK	18.0	0	0
TILLATOBA CREEK TRIBUTARY	1.5	0	0
TUCKER BAYOU	0.8	0	0
UNKNOWN STREAMS	10.6	0	0
UNNAMED STREAM 5	8.9	0	0
TOTAL	**202.9**	**---**	**---**

RiskMAP
Increasing Resilience Together

FEMA

Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix G
Discovery Meeting Presentation and Minutes

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

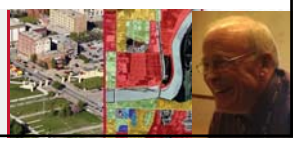
MISSISSIPPI GEOGRAPHIC INFORMATION

FEMA

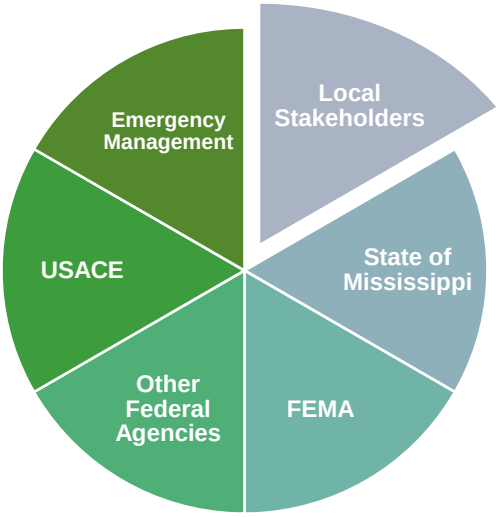
Discovery Meeting: Tallahatchie Watershed, Mississippi

Batesville, Mississippi
February 20, 2014

RiskMAP
Increasing Resilience Together



Introductions



Agenda

- **Risk MAP Program Overview**
- **Tallahatchie Discovery**
  - Watershed Overview
  - Discovery Map
  - Mitigation Planning
  - Watershed Approach
  - Risk Communication
- **Gather Stakeholder Input and Feedback**

Program Overview

Risk MAP

- Mapping
- Assessment
- Planning

Vision

- Deliver quality data
- Increase public awareness
- Encourage local and regional action

Program Overview

Study flooding at a watershed level

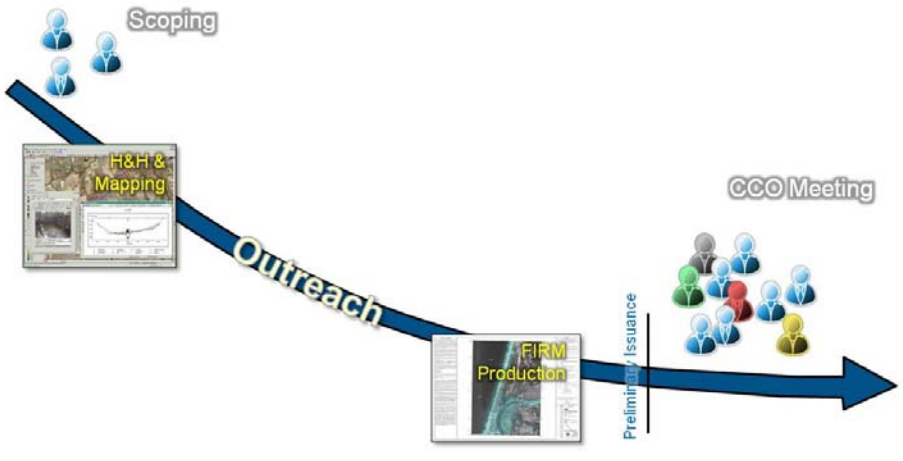
Strengthen local and state partnerships

Improve Hazard Mitigation Plans and Floodplain Ordinances

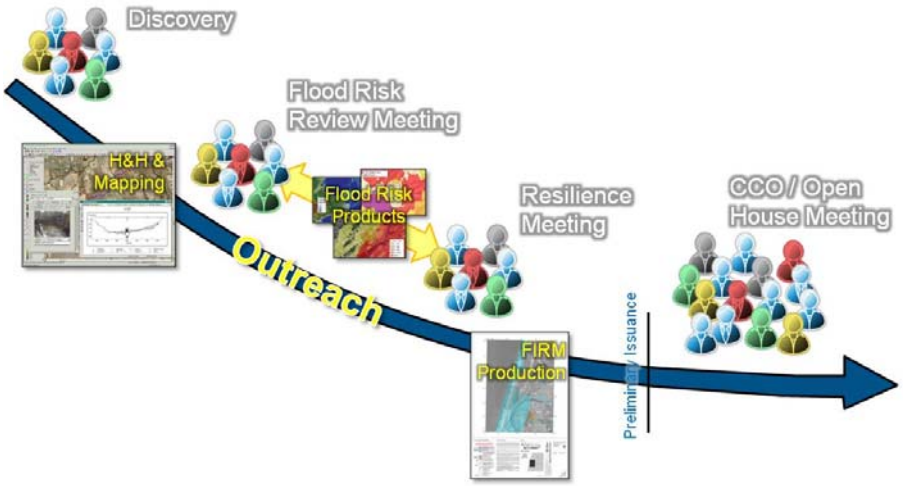
Make informed decisions about flood mitigation projects

Citizens understand flood risk

Map Modernization Project

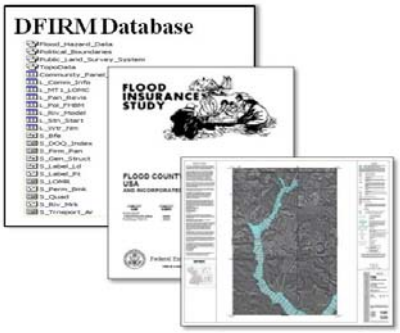


Risk MAP Project

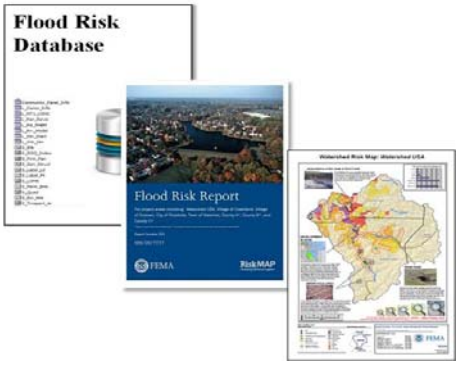


Program Product Comparisons

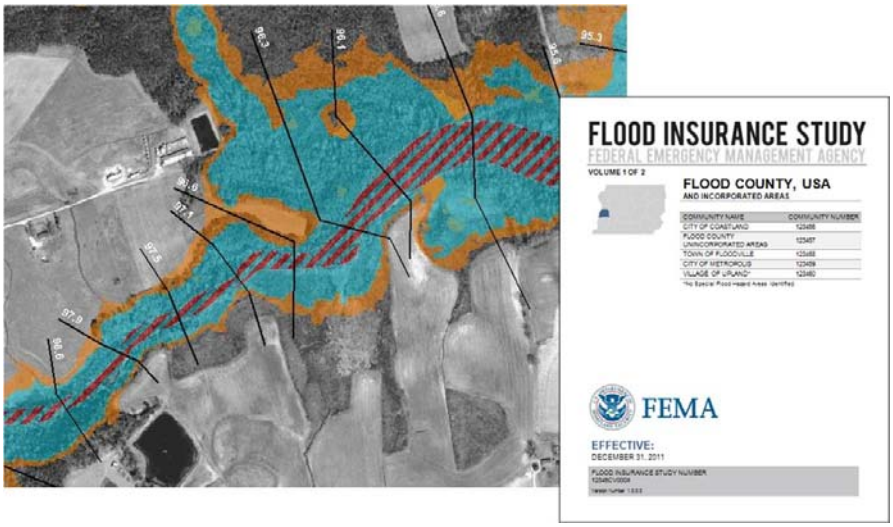
Traditional Regulatory Products



Non-Regulatory Products



Updated Regulatory Products



Updated Regulatory Products

- **Take a moment to say goodbye to our favorite FIS family**

Changes Since Last FIRM (CSLF)

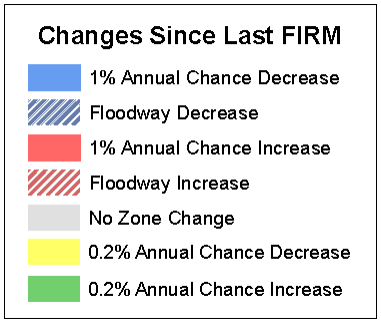
Helps communities understand changes to flood maps

Identifies areas of flooding increases and decreases and zone changes

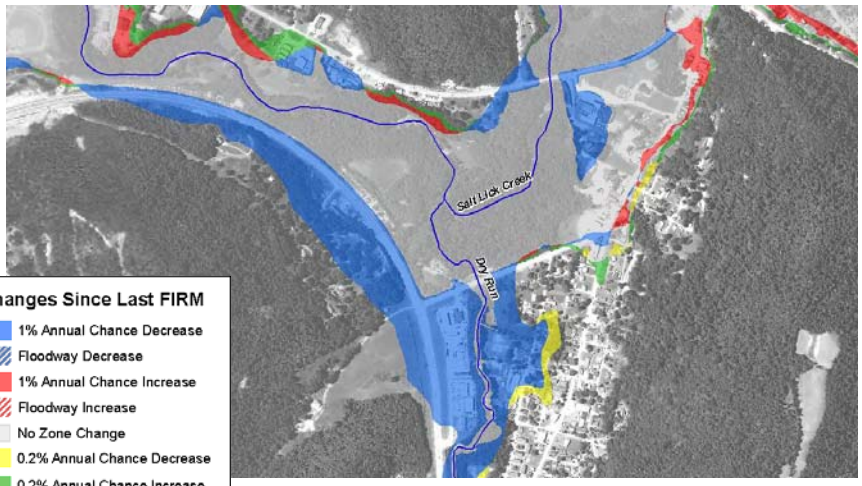
Produces a spatial layer that identifies structures and parcels that are at risk

Changes Since Last FIRM (CSLF)

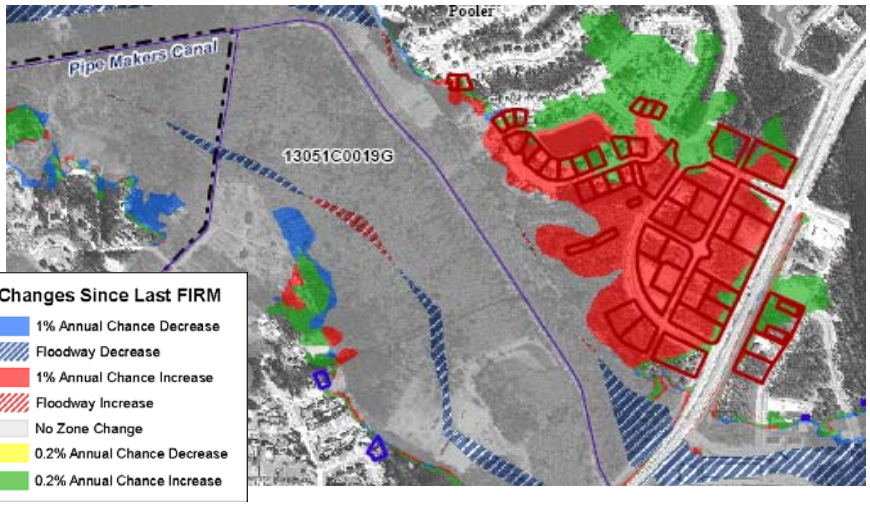
- The **Changes Since Last FIRM** shapefile shows where the floodway, 1% annual chance floodplain, and 0.2% annual chance floodplain have changed.



CSLF Example



CSLF Example



Multi-Frequency Depth Grids

Helps communities understand their flood risk beyond the "1% chance"

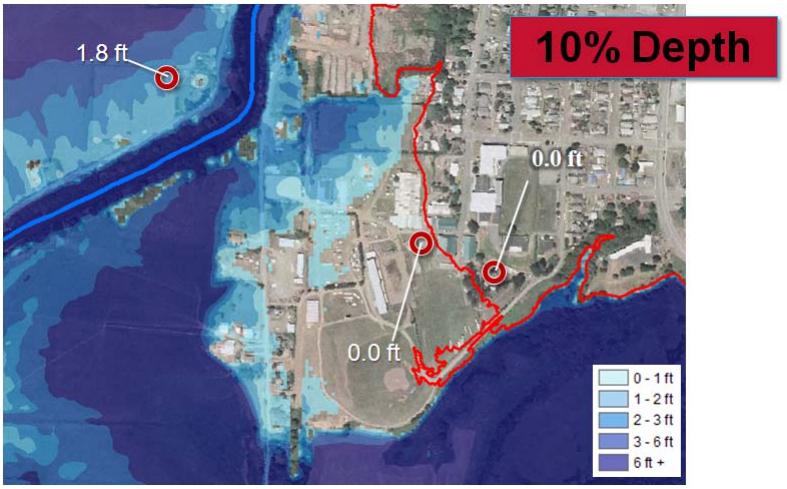
Produces data that can be input into HAZUS

Provides structure-specific results within the floodplain

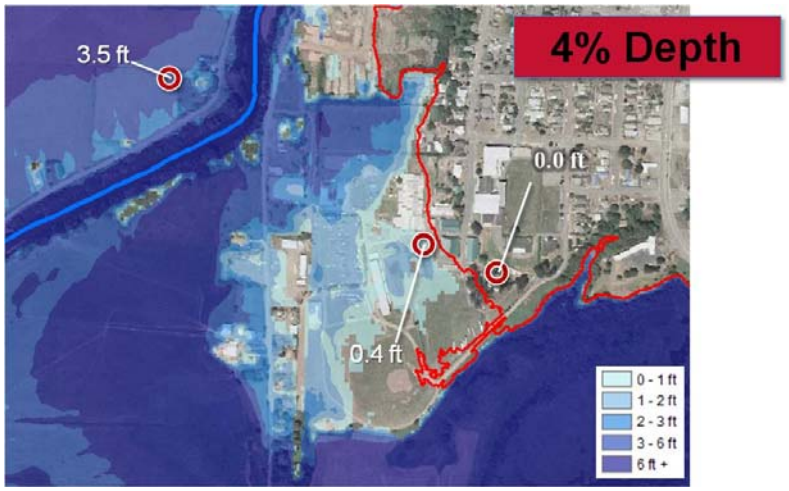
Provides information that can be input into Benefit-Cost Analyses

Multi-Frequency Depth Grids

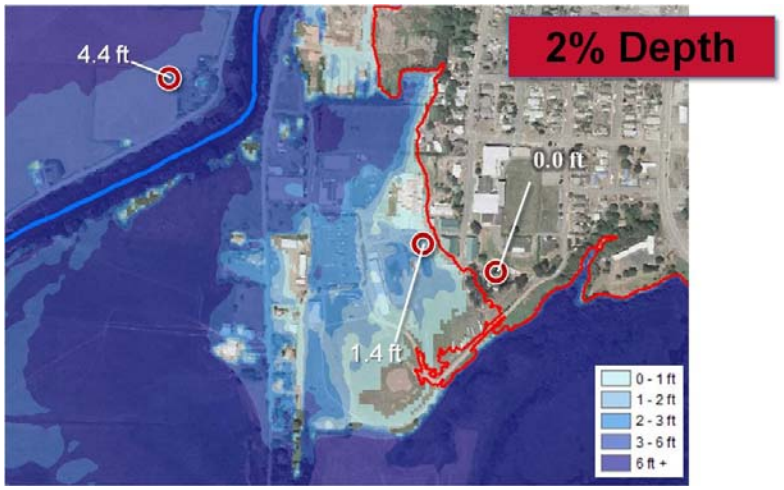
Multi-Frequency Depth Grids



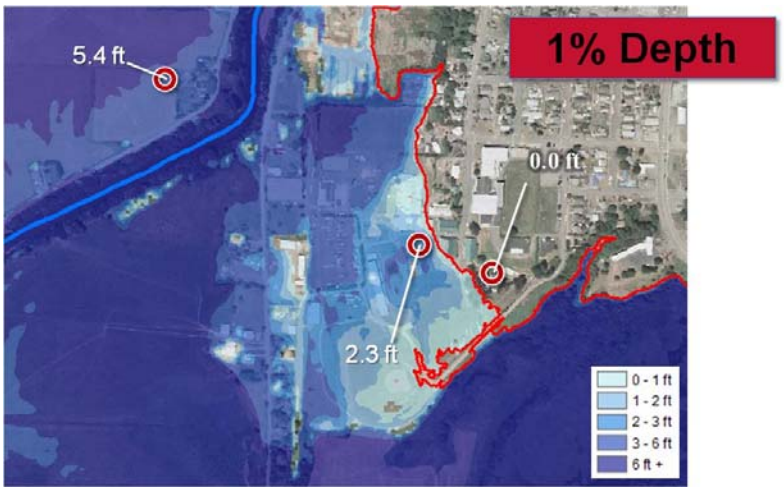
Multi-Frequency Depth Grids



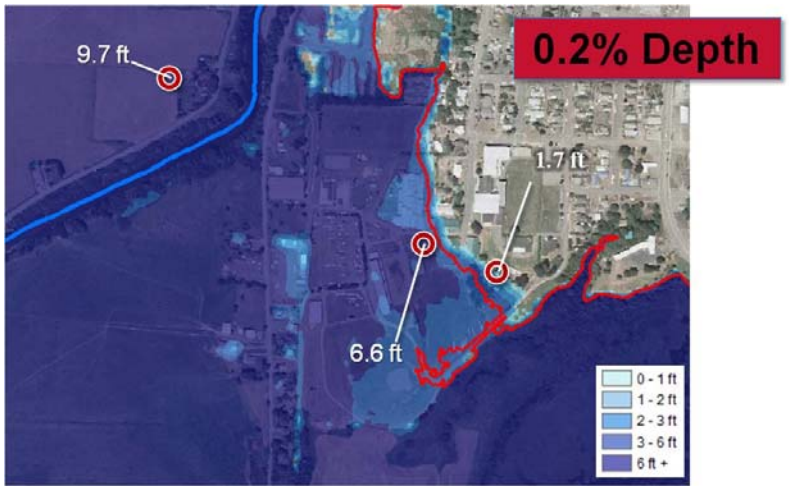
Multi-Frequency Depth Grids



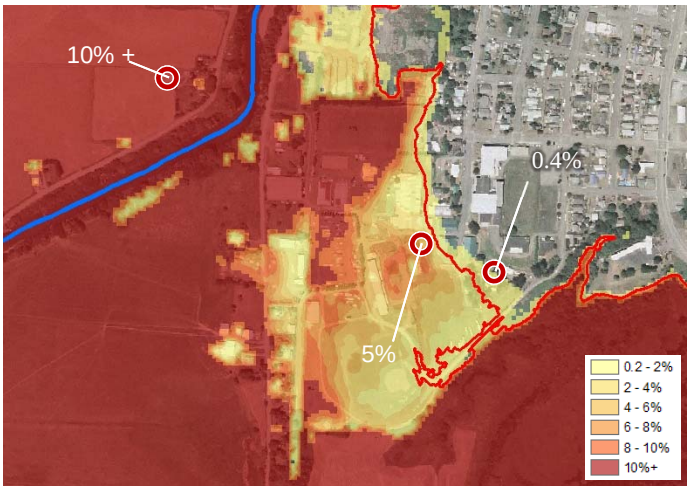
Multi-Frequency Depth Grids



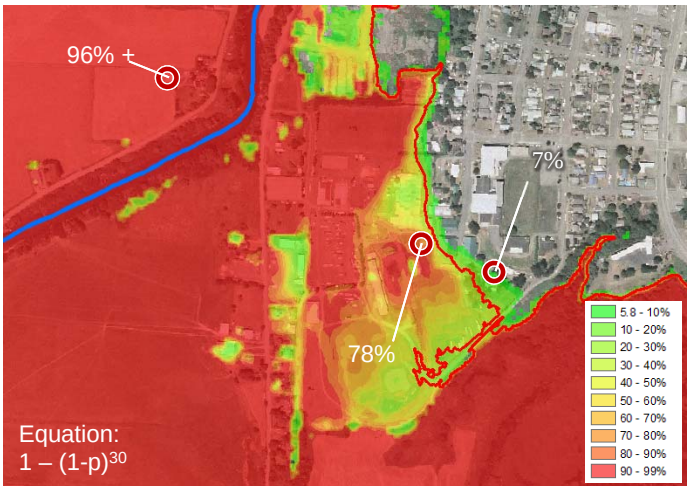
Multi-Frequency Depth Grids



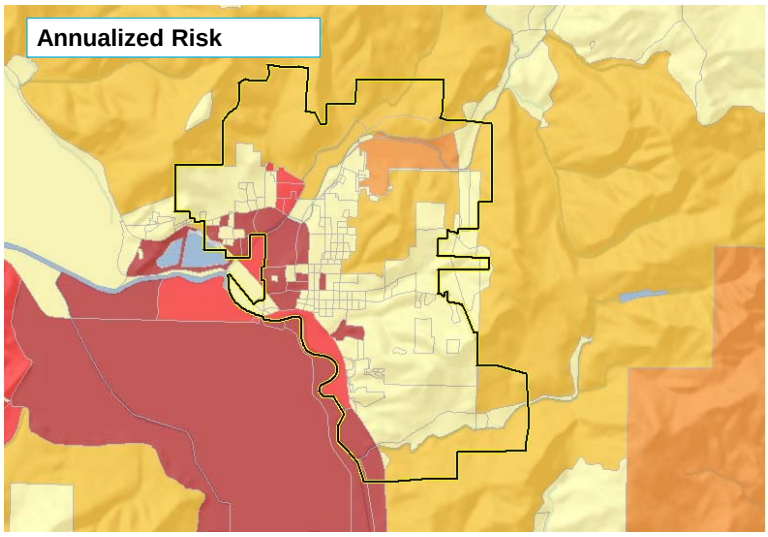
Percent Annual Chance of Flooding



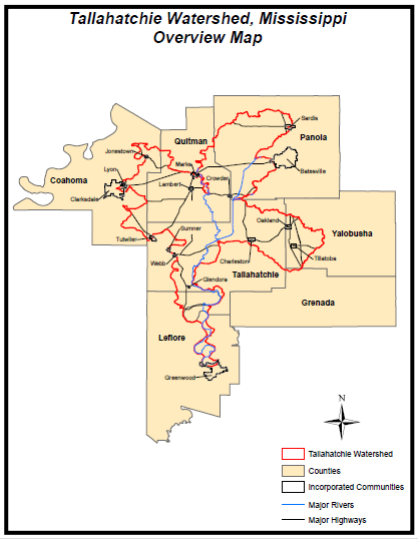
Percent Chance of Flooding Over 30-Yrs



HAZUS Analysis

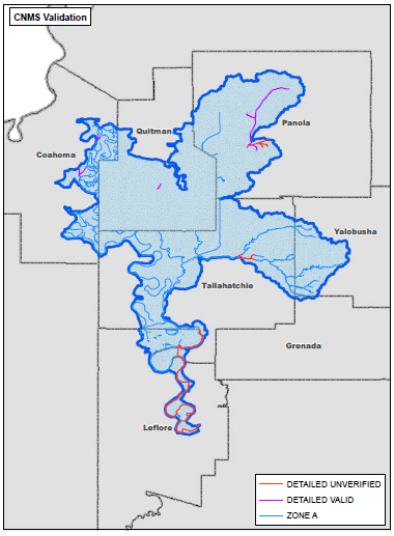


Tallahatchie Watershed, MS Discovery Project



Tallahatchie Communities

- **The Tallahatchie Watershed contains:**
  - **7 counties**
  - **17 cities/towns**
  - **556 total studied stream miles**
  - **37,371 residents**



Discovery Process

Review flood hazards and risks

Understand local mitigation activities and capabilities and hazard risk assessments

Collect information about flooding history, development plans, and floodplain management

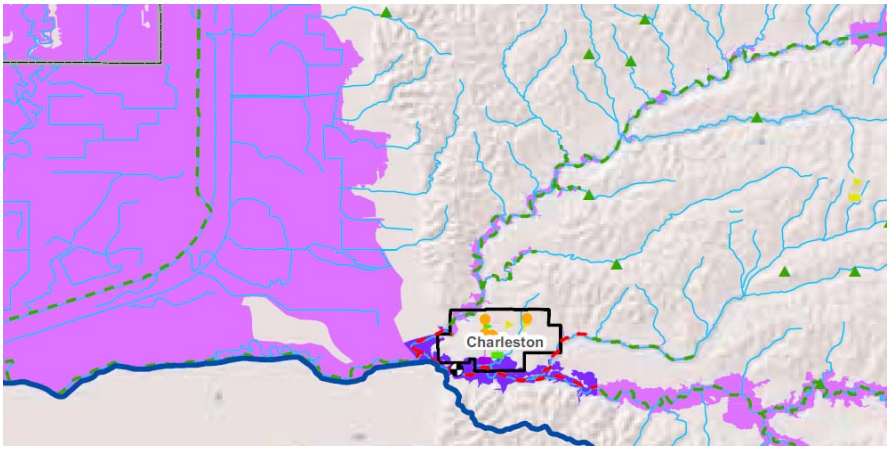
Data Reviewed to Date

- **We have reviewed data and documentation that we had available for the watershed:**
  - Your FEMA-approved Hazard Mitigation Plans
  - Previous flood hazard studies conducted
  - Repetitive flood loss properties
  - High and Significant Hazard dams
  - Average Annualized Loss (AAL) information
  - Census data
  - Critical Facilities locations
  - Community Assistance Visit reports

Additional Data

- **Additional data that we have requested, or are in process of gathering:**
  - Development and floodplain management plans
  - Infrastructure information for levees and new bridges, culverts, and road improvements
  - Building footprints or parcel data
  - Regional watershed plans or community master development plans
  - Information about your flood risk communication processes
  - Flood risk mapping needs

Your Discovery Map

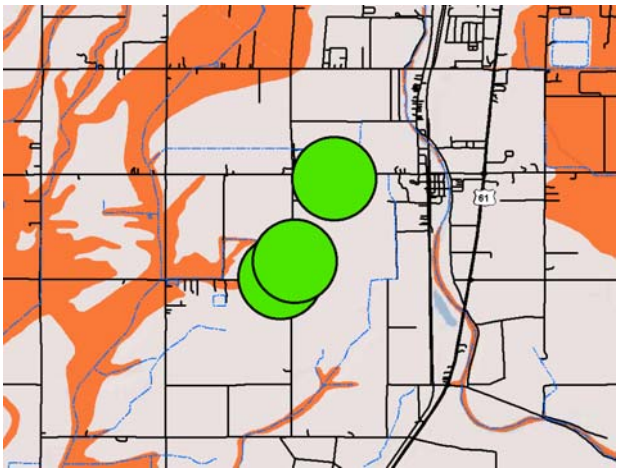


Examples of Areas of Mitigation Interest

- **High Hazard Classified Dam with no Emergency Action Plan on file**

Examples of Areas of Mitigation Interest

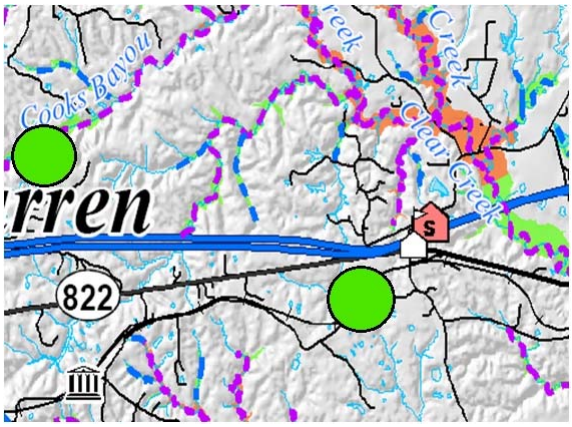
- **Repetitive Flood Losses outside of the FEMA Special Flood Hazard Area**



Examples of Areas of Mitigation Interest

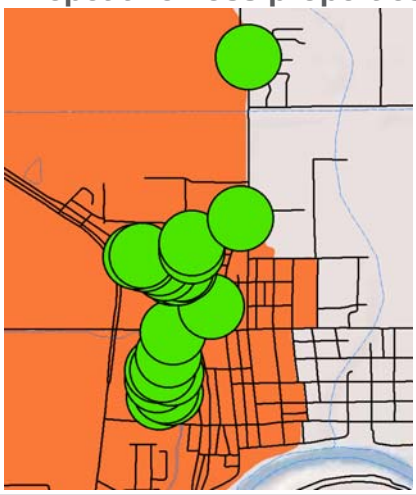
- **Repetitive Flood Losses outside of the FEMA Special Flood Hazard Area**

(Unstudied Stream)



Examples of Areas of Mitigation Interest

- **Clusters of Repetitive Loss properties**



Mitigation Planning

- **Hazard Mitigation Plans:**
  - Can help guide your decisions on mitigation activities for all hazards you face
  - Are an important resource responsible for responding to disasters
  - Can help you apply for assistance to take action

Mitigation Planning (Counties)

- We have obtained the following Hazard Mitigation Plans:
  - ***Coahoma County***
  - ***Grenada County***
  - ***Leflore County***
  - ***Panola County***
  - ***Quitman County***
  - ***Tallahatchie County***
  - ***Yalobusha County***

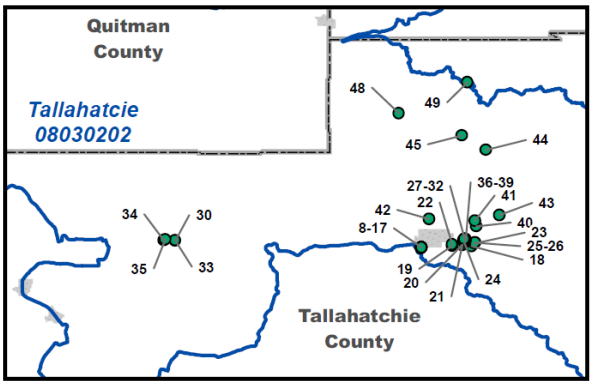
Mitigation Actions

- What kind of mitigation have you tried?
  - What was successful?
  - What was not successful?
  - Structural vs. Non-Structural Mitigation?
- What kind of mitigation do you want?
  - Freeboard management
  - Floodplain Regulation
  - Elevation
  - Dry and/or Wet Floodproofing
  - Buyout/Relocation

Mitigation Actions

- Enhanced Risk MAP Products are coming which will help with the hazards you face.
- <u>CRS examples of what communities do:</u>
  - Open Space Preservation, Outreach Projects, Higher Regulatory Standards, Floodplain Management Planning, and Flood Warning System.

Tallahatchie Watershed, MS Mitigation Projects



- **Acquisition of Private Real Property (Structures and Land)**
  - 26 Projects
- **Safe Room (Tornado and Severe Wind Shelter) - Public Structures**
  - 85 projects

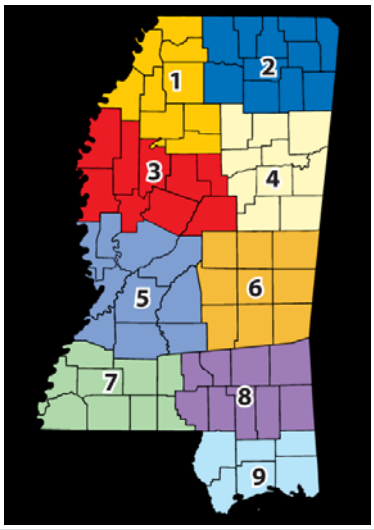
Hazard Mitigation Plan Updates

Risk MAP Products can help enhance the flood risk portion of your Hazard Mitigation Plan

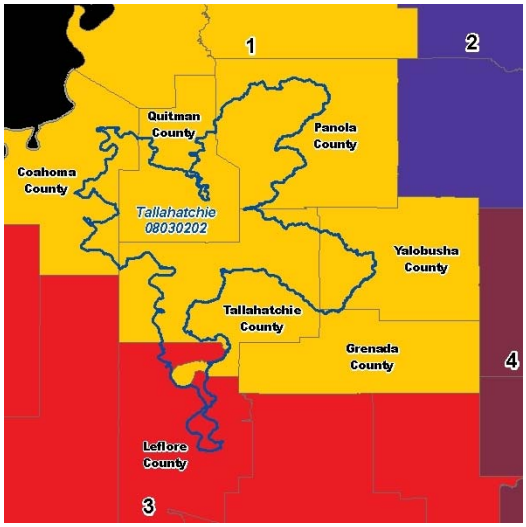
Risk MAP Products can help you identify and prioritize future flood mitigation activities

New Hazard Mitigation Plan updates at MEMA Level

- Nine MEMA Districts
- Districts have an area coordinator who acts as liaison between the county EOC and MEMA.
- District-wide vs. Countywide Hazard Mitigation Plans



MEMA Districts in the Tallahatchie Watershed



Watershed Vision

Risk MAP will …

identify existing data and seek to obtain and …

communicate flood hazard data that…

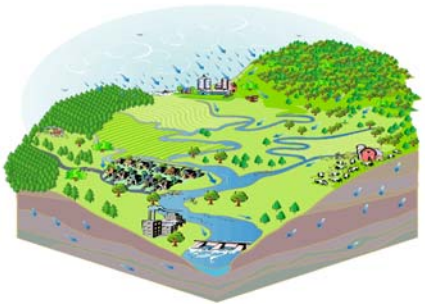
increases public awareness and leads to …

action that reduces risk to life and property by…

connecting hazard mapping, **hazard mitigation** and the **NFIP** through the mapping process at the community level while…

creating data crucial for …

emergency operations in the event of a natural disaster.



Your Watershed Vision

Long term goals for the watershed:

- Be aware of existing data that can be utilized for flood risk education or mitigation?
- Establish watershed-wide emergency communications and support?
- Strive to communicate flood risk to residents?
- Provide program support to watershed communities?
- Highlight how actions affect others in the watershed?
- Work together to achieve more disaster resilience?

Risk Communication

- **Citizens look to local officials to keep them informed of flood risk**
- **Regular communication is important regarding:**
  - Flood hazard and risk information
  - Steps citizens can take to protect their families and property

Risk Communication

- **The Tallahatchie Discovery Guide contains information from FEMA regarding:**

Risk MAP

National Flood Insurance Program

Flood Insurance

Mitigation Programs and Information

Next Steps

Today we will seek your input on flooding issues, development patterns, best available data, and mitigation projects.

Today we will work with you to complete a community survey.

Today we will ask that you sign the Project Charter.

Based on today's discussion, will provide you with:

An Updated Discovery Map	A Discovery Report

Local Knowledge Is Key!

- **Can you provide us with any additional information?**
  - Completed or Planned Engineering Studies
  - Available GIS Data
  - Development Plans
  - Completed or Planned Mitigation Activities
  - Stormwater Management Activities
  - Outreach Activities
  - Additional Stakeholders

State of Mississippi Assistance

Steve Champlin, RPG
MS Dept. of Environmental Quality
P.O. Box 2279
Jackson, MS 39225
601.961.5506
Stephen_Champlin@deq.state.ms.us

Stacey Ricks, CFM
MEMA
P.O. Box 5644
Pearl, MS 39208
601.933.6610
sricks@mema.ms.gov

Questions and Answers

Michael Taylor, PE, CFM
AECOM
1360 Peachtree Street NE #500
Atlanta, GA 30309
404.946.9488
Michael.Taylor@aecom.com

Tallahatchie Watershed, Mississippi

(HUC – 08030202)

Discovery Meeting Minutes

February 20, 2014 – Batesville, MS

Meeting Minutes

- Steve Champlin, State of Mississippi, began the meeting by introducing the project. Introductions were made by all attendees. The meeting participants included:
    - Mississippi Department of Environmental Quality
    - Mississippi Emergency Management Agency
    - FEMA Region IV (via conference call)
    - Local Stakeholders including Floodplain Administrators and CEOs
    - Emergency Management Staff
    - USGS
    - NRCS
    - Planning Development Districts
    - Levee Board Members

- Steve Champlin presented the Tallahatchie Watershed Discovery Guidebook, which was distributed to all participants. The guidebook included:
    - Project Stakeholders
    - Discovery Presentation
    - Discovery Maps
    - FEMA Brochures and Handouts
    - CD containing an electronic version of the guidebook
    - Project Charter (with a self-addressed stamped envelope to return)

- Steve Champlin outlined the meeting agenda:
    - Risk MAP Program Overview
    - Tallahatchie Discovery Project
        - Watershed Overview
        - LiDAR Data
        - Discovery Map
        - Mitigation Planning
        - Watershed Approach
        - Risk Communication
    - Gather Stakeholder Input and Feedback

- Michael Taylor, AECOM/MGI, presented the FEMA's Risk Mapping, Assessment, and Planning (Risk MAP) program and explained the differences from the Map Modernization Program which Mississippi just completed.

- Michael Taylor presented Risk MAP's updated regulatory products and new non-regulatory products including Changes Since Last FIRM (CSLF), Multi-Frequency Depth Grids, Percent Annual Chance of Flooding, Percent Chance of Flooding Over the Life of a 30-Year Mortgage, and a HAZUS Average Annualized Loss (AAL) Analysis.

- Michael Taylor presented an overview of the Tallahatchie Watershed.

- Michael Taylor presented the data collected prior to the Discovery Meeting which included:
    - Effective Flood Hazard Data
    - Coordinated Needs Management Strategy (CNMS) Results
    - Letters of Map Revision (LOMRs)
    - Historical Flood Information
    - Hazard Mitigation Plans
    - Mitigation Projects
    - Community Assessment Surveys
    - Key Project Stakeholders

- Stacey Ricks, MEMA, explained the importance of Mitigation Planning as it relates to Risk MAP. A goal of Risk MAP is to use the products in the Hazard Mitigation Plan updates and to more effectively prioritize mitigation opportunities.

- Michael Taylor presented the importance of FEMA's watershed approach to flood studies. Flooding does not stop at a county boundary and it is important to consider potential impacts to downstream neighbors.

- Local communities participated in a breakout session and reviewed current flood maps as well as Discovery Maps. Comments were collected and will be presented in the upcoming Discovery Report.

Action Items

- Send Tallahatchie Watershed Guidebooks, Community Survey, and Project Charters to the communities not in attendance. These communities include:
    - Coahoma County
    - Leflore County
    - Town of Crowder
    - City of Jonestown
    - Town of Lambert
    - Town of Lyon
    - City of Marks
    - Town of Oakland

  (Michael Taylor)

- Compile community comments from Discovery Meeting
  (Michael Taylor)

- Send Tallahatchie County copies of their preliminary Flood Insurance Rate Maps
  (Michael Taylor)

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

FEMA

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MEMA MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

Mississippi State Extension Service Building, 394 Highway 51 South, Batesville, Mississippi 38606	**February 20, 2014, 1:00pm**
State Lead: Steve Champlin (Stephen_Champlin@deq.state.ms.us)	**Project Manager: Michael Taylor, PE, CFM (Michael.Taylor@aecom.com)**

Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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Jennifer Skelton	AC	MEMA	Tel: 601 540 3339 Fax:	jskelton@mema.ms.gov
Fred Hyde	EMA	Yalobusha Co	Tel: 62473 Fax: 8411	XOL.Focems.MetroCast.net
Wayne Buchanan	E.M.A	Tallahatchie	Tel: 662 458 Fax: 6915	Wayne.buc@att.net
Andrea Rodgers	EMA	Grenada	Tel: 662-226-1076 Fax: 888-815-7871	grenada911@gmail.com

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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Mark Lampton	MS Ins. Dept. Attorney	MS Ins. Dept	Tel: 601-359-2708 Fax:	mark.lampton@mid.ms.gov
Andy Case	MS Ins. Dept Consumer Affairs	MS Ins. Dept.	Tel: 601 359-2130 Fax:	Andy.case@mid.ms.gov
Thad Roberts	EMA Director	Tallahatchie Co.	Tel: 662-647-7012 Fax:	ssrchardjaisfarm@netscape.net
Chris Downs	GIS operations	Panola Co. EMA	Tel: 662-934-3136 Fax:	chrisd@panola.com

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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Jonathan Dancy	Floodplain Administrator	Quitman Co.	Tel: 662-444-9909 Fax:	jdancy@calhoun.net
John Wiggers	Planner	North Central PDD	Tel: 662-283-2675 Fax: 662-283-5871	Jwiggers@ncpdd.org
Leslie Washington	Floodplain Adm	Tallahatchie Co.	Tel: 662-647-3563 Fax: 662-647-3702	lwashington@co.tallahatchie.ms.us
Daniel Cole	Director of Emergency Operations	PANOLA Co.	Tel: 662-563-6245 Fax: 662-487-1908	dcole@panola.coms.com

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
Terry Myers	District Conservationist	USDA NRCS	Tel: 662-578-8045 Fax:	terry.myers@ms.usda.gov
John Power	GIS	AECOM	Tel: 404-328-8888 Fax:	john.power@aecom.com
Billy M. Russell	SAMS Mayor	VA	Tel: 662-292-3923 Fax:	NA
K Van Wilson	Hydrologist, PE	USGS-MS	Tel: 601-933-2922 Fax:	kvwilson@usgs.gov
Bill Conty	Field Rep	Sen Thad Cochran	Tel: 662 236 1018 Fax:	

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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BRUCE Cook	CHIEF ENGINEER	YMD LEVEE BOARD	Tel: (662) 624-4397 Fax: (662) 624-2450	brcook @bellsouth.net
Drew Parker	GIS Specialist	AECOM	Tel: (401) 965-7055 Fax:	drew.parker@aecom.com
John McCallum	Floodplain Admin	City of Batesville	Tel: (662) 563-6678 Fax: 662-563-6693	buildinginspector@panola.com

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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Bubba McDowell	Public Wk. Dir.		Tel: 662-609-0576 Fax:	Bubba.McDowell@Panola.com
ARCH CORLEY	CITY ENGINEER	CITY OF CLARKSDALE	Tel: 662-621-8142 Fax:	LEGALSECRETARY@CITYOFCLARKSDALE.ORG
Victor Stokes		City of Greenwood	Tel: 662-455-7614 Fax:	Vstokes72@yahoo.com
Kelly Morris	Supervisor Panola	Batesville MS	Tel: 662-934-5077 Fax:	KMG Morris Lawn Service. Net

Tallahatchie Watershed, Mississippi Discovery Meeting Attendance Sheet

FEMA

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MEMA MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

Mississippi State Extension Service Building, 394 Highway 51 South, Batesville, Mississippi 38606	**February 20, 2014, 1:00pm**
State Lead: Steve Champlin (Stephen_Champlin@deq.state.ms.us)	**Project Manager: Michael Taylor, PE, CFM (Michael.Taylor@aecom.com)**

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Name (Please Print)	Title	Organization/ Affiliation	Telephone/Fax	E-Mail Address
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RiskMAP
Increasing Resilience Together

FEMA

Tallahatchie Watershed, Mississippi Discovery Report (HUC – 08030202)

Appendix H
Project Charters

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MISSISSIPPI EMERGENCY MANAGEMENT AGENCY

MISSISSIPPI GEOGRAPHIC INFORMATION

FEMA

Risk MAP Project Charter

The goal of the Risk Mapping, Assessment, and Planning (Risk MAP) program is to deliver quality data that increases public awareness and leads to actions that reduce the risk to life and property. Through Risk MAP, FEMA Region 4 will work with **Panola County** to provide a more accurate understanding of flood risk and provide valuable tools to help implement actions to protect their citizens and property from risk.

This Project Charter represents a good-faith effort by all parties to share data, communicate findings, and plan mitigation activities to protect **Panola County** from flood risk. **It is not legally binding nor does it preclude Panola County from participating in the FIRM appeal process.**

Mapping and Assessment

FEMA and/or one of its technical partners will update the riverine analyses for portions of your county that fall within the **Tallahatchie Watershed** as part of this project. This update will include revised studies within the watershed for updated or new AE/A zones and floodways.

Risk MAP Deliverables

Communities can use the updated data and projects to make informed hazard mitigation, land use and development, and emergency management decisions and develop related plans and strategies.

Regulatory Products

FEMA and/or one of its technical partners will provide the following regulatory products to support floodplain management and flood insurance ratings.

- **Flood Insurance Study (FIS) Report**: Describes **Panola County's** flood history and provides technical information on the study.

- **Flood Insurance Rate Map (FIRM)**: Identifies the community's or Tribe's flood zones, base flood elevations, and floodplain boundaries. This map is also used to determine where flood insurance is required.

Flood Risk Products

- **Flood Risk Report:** Details the flood hazards and risk exposure within the community, watershed, or other geographic area. It also explains the risk assessment methodology used and results.

- **Flood Risk Map:** depicts County and community boundaries in relation to the highest areas of risk within the watershed emphasizing that risk reduction activities may have an impact well beyond the site.

- **Flood Risk Database:** Provides access to the data collected, created, and analyzed during the project. Flood Risk Database includes:

    - **Changes Since Last FIRM:** Identifies areas where the floodplain, floodway, and/or flood zone designations have changed since the previous flood study.

    - **Flood Depth and Analysis Grids:** Identifies the depth of flooding related to the **Panola County's** 10 percent, 4 percent, 2 percent, 1 percent, and 0.2 percent annual chance flood events.

    - **Flood Risk Assessment:** Helps identify the economic impacts of flooding and highlights areas where risk reduction actions may produce the highest return on investment

- **Areas of Mitigation Interest:** Identifies conditions that may contribute to the severity of the flood hazard and associated losses so impacts can be evaluated through the Mitigation plan which can lead to actions to reduce the risk.

Planning

A mitigation plan does exist for **Panola County**. **Panola County** can use the Risk MAP Products to identify risks and vulnerabilities associated with floods, evaluate the areas of high mitigation value, and develop long-term strategies for protecting people and property from future flood events, as financially feasible. FEMA offers Hazard Mitigation Assistance grant programs that fund eligible mitigation planning and activities that reduce disaster losses and protect life and property from future disaster damages.

Communication and Coordination

FEMA and/or one its technical partners will coordinate with the **Panola County** to hold a minimum of three meetings throughout the study process, as described below.

- **Discovery Meeting:** Held prior to the development of this charter, the meeting focused on setting project expectations, roles and responsibilities, and validating and gathering data.
- **Resilience Meeting:** Will provide local officials with the Risk MAP Products and describe how to incorporate this new information into existing hazard mitigation plans.
- **Preliminary DFIRM Community Coordination (PDCC) Meeting/Open House:** Will provide officials with the FIS and FIRM and information on ordinance requirements for map adoption followed by an open house where officials will present project results to local citizens and explain the impact of the results.
- Other Meetings (as appropriate)
    - **Flood Study Review Meeting:** Will provide local and Tribal officials the opportunity to view and comment on drafts of the engineering analyses and flood risk data.

Roles and Responsibilities

The parties listed in the signature block below will collaborate on flood hazard identification activities, risk analysis products, and will consult with each other to integrate contributions into flood hazard identification efforts.

FEMA and/or one of its technical partners will provide **Panola County** officials with regular project status updates, the data and products described above, and outreach guidance to increase local and Tribal awareness of flood risk. These efforts will better enable **Panola County** to take action to reduce risk, through the adoption of the maps, development, or enhancement of mitigation plans, and increased communication with citizens to inform them about their risk and the steps they can take to mitigate that risk.

Panola County will provide input and updates, where available, throughout the study process to verify data and ensure that the information accurately represents the community.

Kristen Martinenza, PE, CFM FEMA Region IV	Michael Taylor, PE, CFM AECOM	[COMMUNITY CEO OR TRIBAL OFFICIAL]

FEMA

Risk MAP Project Charter

The goal of the Risk Mapping, Assessment, and Planning (Risk MAP) program is to deliver quality data that increases public awareness and leads to actions that reduce the risk to life and property. Through Risk MAP, FEMA Region 4 will work with the **City of Batesville** to provide a more accurate understanding of flood risk and provide valuable tools to help implement actions to protect their citizens and property from risk.

This Project Charter represents a good-faith effort by all parties to share data, communicate findings, and plan mitigation activities to protect the **City of Batesville** from flood risk. **It is not legally binding nor does it preclude the City of Batesville** from **participating in the FIRM appeal process.**

Mapping and Assessment

FEMA and/or one of its technical partners will update the riverine analyses for portions of your city that fall within the **Tallahatchie Watershed** as part of this project. This update will include revised studies within the watershed for updated or new AE/A zones and floodways.

Risk MAP Deliverables

Communities can use the updated data and projects to make informed hazard mitigation, land use and development, and emergency management decisions and develop related plans and strategies.

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    - **Changes Since Last FIRM:** Identifies areas where the floodplain, floodway, and/or flood zone designations have changed since the previous flood study.

    - **Flood Depth and Analysis Grids:** Identifies the depth of flooding related to the **City of Batesville's** 10 percent, 4 percent, 2 percent, 1 percent, and 0.2 percent annual chance flood events.

    - **Flood Risk Assessment:** Helps identify the economic impacts of flooding and highlights areas where risk reduction actions may produce the highest return on investment

- **Areas of Mitigation Interest:** Identifies conditions that may contribute to the severity of the flood hazard and associated losses so impacts can be evaluated through the Mitigation plan which can lead to actions to reduce the risk.

Planning

A mitigation plan does exist for the **City of Batesville**. The plan is set to expire on July 16, 2015. The **City of Batesville** can use the Risk MAP Products to identify risks and vulnerabilities associated with floods, evaluate the areas of high mitigation value, and develop long-term strategies for protecting people and property from future flood events, as financially feasible. FEMA offers Hazard Mitigation Assistance grant programs that fund eligible mitigation planning and activities that reduce disaster losses and protect life and property from future disaster damages.

Communication and Coordination

FEMA and/or one of its technical partners will coordinate with the **City of Batesville** to hold a minimum of three meetings throughout the study process, as described below.

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    - **Flood Study Review Meeting:** Will provide local and Tribal officials the opportunity to view and comment on drafts of the engineering analyses and flood risk data.

Roles and Responsibilities

The parties listed in the signature block below will collaborate on flood hazard identification activities, risk analysis products, and will consult with each other to integrate contributions into flood hazard identification efforts.

FEMA and/or one of its technical partners will provide the **City of Batesville** officials with regular project status updates, the data and products described above, and outreach guidance to increase local and Tribal awareness of flood risk. These efforts will better enable the **City of Batesville** to take action to reduce risk, through the adoption of the maps, development, or enhancement of mitigation plans, and increased communication with citizens to inform them about their risk and the steps they can take to mitigate that risk.

The **City of Batesville** will provide input and updates, where available, throughout the study process to verify data and ensure that the information accurately represents the community.

Kristen Martinenza, PE, CFM FEMA Region IV	Michael Taylor, PE, CFM AECOM	[COMMUNITY CEO OR TRIBAL OFFICIAL]

FEMA

Risk MAP Project Charter

The goal of the Risk Mapping, Assessment, and Planning (Risk MAP) program is to deliver quality data that increases public awareness and leads to actions that reduce the risk to life and property. Through Risk MAP, FEMA Region 4 will work with the **City of Clarksdale** to provide a more accurate understanding of flood risk and provide valuable tools to help implement actions to protect their citizens and property from risk.

This Project Charter represents a good-faith effort by all parties to share data, communicate findings, and plan mitigation activities to protect the **City of Clarksdale** from flood risk. **It is not legally binding nor does it preclude the City of Clarksdale** from **participating in the FIRM appeal process.**

Mapping and Assessment

FEMA and/or one of its technical partners will update the riverine analyses for portions of your city that fall within the **Tallahatchie Watershed** as part of this project. This update will include revised studies within the watershed for updated or new AE/A zones and floodways.

Risk MAP Deliverables

Communities can use the updated data and projects to make informed hazard mitigation, land use and development, and emergency management decisions and develop related plans and strategies.

Regulatory Products

FEMA and/or one of its technical partners will provide the following regulatory products to support floodplain management and flood insurance ratings.

- **Flood Insurance Study (FIS) Report**: Describes the **City of Clarksdale's** flood history and provides technical information on the study.

- **Flood Insurance Rate Map (FIRM)**: Identifies the community's or Tribe's flood zones, base flood elevations, and floodplain boundaries. This map is also used to determine where flood insurance is required.

Flood Risk Products

- **Flood Risk Report:** Details the flood hazards and risk exposure within the community, watershed, or other geographic area. It also explains the risk assessment methodology used and results.

- **Flood Risk Map:** depicts County and community boundaries in relation to the highest areas of risk within the watershed emphasizing that risk reduction activities may have an impact well beyond the site.

- **Flood Risk Database:** Provides access to the data collected, created, and analyzed during the project. Flood Risk Database includes:

    - **Changes Since Last FIRM:** Identifies areas where the floodplain, floodway, and/or flood zone designations have changed since the previous flood study.

    - **Flood Depth and Analysis Grids:** Identifies the depth of flooding related to the **City of Clarksdale's** 10 percent, 4 percent, 2 percent, 1 percent, and 0.2 percent annual chance flood events.

    - **Flood Risk Assessment:** Helps identify the economic impacts of flooding and highlights areas where risk reduction actions may produce the highest return on investment

- **Areas of Mitigation Interest:** Identifies conditions that may contribute to the severity of the flood hazard and associated losses so impacts can be evaluated through the Mitigation plan which can lead to actions to reduce the risk.

Planning

A mitigation plan does exist for the **City of Clarksdale**. The plan is set to expire on July 16, 2015. The **City of Clarksdale** can use the Risk MAP Products to identify risks and vulnerabilities associated with floods, evaluate the areas of high mitigation value, and develop long-term strategies for protecting people and property from future flood events, as financially feasible. FEMA offers Hazard Mitigation Assistance grant programs that fund eligible mitigation planning and activities that reduce disaster losses and protect life and property from future disaster damages.

Communication and Coordination

FEMA and/or one of its technical partners will coordinate with the **City of Clarksdale** to hold a minimum of three meetings throughout the study process, as described below.

- **Discovery Meeting:** Held prior to the development of this charter, the meeting focused on setting project expectations, roles and responsibilities, and validating and gathering data.
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- Other Meetings (as appropriate)
    - **Flood Study Review Meeting:** Will provide local and Tribal officials the opportunity to view and comment on drafts of the engineering analyses and flood risk data.

Roles and Responsibilities

The parties listed in the signature block below will collaborate on flood hazard identification activities, risk analysis products, and will consult with each other to integrate contributions into flood hazard identification efforts.

FEMA and/or one of its technical partners will provide the **City of Clarksdale** officials with regular project status updates, the data and products described above, and outreach guidance to increase local and Tribal awareness of flood risk. These efforts will better enable the **City of Clarksdale** to take action to reduce risk, through the adoption of the maps, development, or enhancement of mitigation plans, and increased communication with citizens to inform them about their risk and the steps they can take to mitigate that risk.

The **City of Clarksdale** will provide input and updates, where available, throughout the study process to verify data and ensure that the information accurately represents the community.

Kristen Martinenza, PE, CFM
FEMA Region IV

Michael Taylor, PE, CFM
AECOM

MAYOR
[COMMUNITY CEO OR TRIBAL OFFICIAL]

FEMA

Risk MAP Project Charter

The goal of the Risk Mapping, Assessment, and Planning (Risk MAP) program is to deliver quality data that increases public awareness and leads to actions that reduce the risk to life and property. Through Risk MAP, FEMA Region 4 will work with the **City of Greenwood** to provide a more accurate understanding of flood risk and provide valuable tools to help implement actions to protect their citizens and property from risk.

This Project Charter represents a good-faith effort by all parties to share data, communicate findings, and plan mitigation activities to protect the **City of Greenwood** from flood risk. **It is not legally binding nor does it preclude the City of Greenwood** from **participating in the FIRM appeal process.**

Mapping and Assessment

FEMA and/or one of its technical partners will update the riverine analyses for portions of your city that fall within the **Tallahatchie Watershed** as part of this project. This update will include revised studies within the watershed for updated or new AE/A zones and floodways.

Risk MAP Deliverables

Communities can use the updated data and projects to make informed hazard mitigation, land use and development, and emergency management decisions and develop related plans and strategies.

Regulatory Products

FEMA and/or one of its technical partners will provide the following regulatory products to support floodplain management and flood insurance ratings.

- **Flood Insurance Study (FIS) Report**: Describes the **City of Greenwood's** flood history and provides technical information on the study.

- **Flood Insurance Rate Map (FIRM)**: Identifies the community's or Tribe's flood zones, base flood elevations, and floodplain boundaries. This map is also used to determine where flood insurance is required.

Flood Risk Products

- **Flood Risk Report:** Details the flood hazards and risk exposure within the community, watershed, or other geographic area. It also explains the risk assessment methodology used and results.

- **Flood Risk Map:** depicts County and community boundaries in relation to the highest areas of risk within the watershed emphasizing that risk reduction activities may have an impact well beyond the site.

- **Flood Risk Database:** Provides access to the data collected, created, and analyzed during the project. Flood Risk Database includes:

    - **Changes Since Last FIRM:** Identifies areas where the floodplain, floodway, and/or flood zone designations have changed since the previous flood study.

    - **Flood Depth and Analysis Grids:** Identifies the depth of flooding related to the **City of Greenwood's** 10 percent, 4 percent, 2 percent, 1 percent, and 0.2 percent annual chance flood events.

    - **Flood Risk Assessment:** Helps identify the economic impacts of flooding and highlights areas where risk reduction actions may produce the highest return on investment

- **Areas of Mitigation Interest:** Identifies conditions that may contribute to the severity of the flood hazard and associated losses so impacts can be evaluated through the Mitigation plan which can lead to actions to reduce the risk.

Planning

A mitigation plan does exist for the **City of Greenwood**. The plan is set to expire on July 16, 2015. The **City of Greenwood** can use the Risk MAP Products to identify risks and vulnerabilities associated with floods, evaluate the areas of high mitigation value, and develop long-term strategies for protecting people and property from future flood events, as financially feasible. FEMA offers Hazard Mitigation Assistance grant programs that fund eligible mitigation planning and activities that reduce disaster losses and protect life and property from future disaster damages.

Communication and Coordination

FEMA and/or one of its technical partners will coordinate with the **City of Greenwood** to hold a minimum of three meetings throughout the study process, as described below.

- **Discovery Meeting:** Held prior to the development of this charter, the meeting focused on setting project expectations, roles and responsibilities, and validating and gathering data.
- **Resilience Meeting:** Will provide local officials with the Risk MAP Products and describe how to incorporate this new information into existing hazard mitigation plans.
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    - **Flood Study Review Meeting:** Will provide local and Tribal officials the opportunity to view and comment on drafts of the engineering analyses and flood risk data.

Roles and Responsibilities

The parties listed in the signature block below will collaborate on flood hazard identification activities, risk analysis products, and will consult with each other to integrate contributions into flood hazard identification efforts.

FEMA and/or one of its technical partners will provide the **City of Greenwood** officials with regular project status updates, the data and products described above, and outreach guidance to increase local and Tribal awareness of flood risk. These efforts will better enable the **City of Greenwood** to take action to reduce risk, through the adoption of the maps, development, or enhancement of mitigation plans, and increased communication with citizens to inform them about their risk and the steps they can take to mitigate that risk.

The **City of Greenwood** will provide input and updates, where available, throughout the study process to verify data and ensure that the information accurately represents the community.

Kristen Martinenza, PE, CFM
FEMA Region IV

Michael Taylor, PE, CFM
AECOM

[COMMUNITY CEO OR TRIBAL OFFICIAL]

FEMA

Risk MAP Project Charter

The goal of the Risk Mapping, Assessment, and Planning (Risk MAP) program is to deliver quality data that increases public awareness and leads to actions that reduce the risk to life and property. Through Risk MAP, FEMA Region 4 will work with the **Town of Tutwiler** to provide a more accurate understanding of flood risk and provide valuable tools to help implement actions to protect their citizens and property from risk.

This Project Charter represents a good-faith effort by all parties to share data, communicate findings, and plan mitigation activities to protect the **Town of Tutwiler** from flood risk. **It is not legally binding nor does it preclude the Town of Tutwiler** from **participating in the FIRM appeal process.**

Mapping and Assessment

FEMA and/or one of its technical partners will update the riverine analyses for portions of your city that fall within the **Tallahatchie Watershed** as part of this project. This update will include revised studies within the watershed for updated or new AE/A zones and floodways.

Risk MAP Deliverables

Communities can use the updated data and projects to make informed hazard mitigation, land use and development, and emergency management decisions and develop related plans and strategies.

Regulatory Products

FEMA and/or one of its technical partners will provide the following regulatory products to support floodplain management and flood insurance ratings.

- **Flood Insurance Study (FIS) Report**: Describes the **Town of Tutwiler's** flood history and provides technical information on the study.

- **Flood Insurance Rate Map (FIRM)**: Identifies the community's or Tribe's flood zones, base flood elevations, and floodplain boundaries. This map is also used to determine where flood insurance is required.

Flood Risk Products

- **Flood Risk Report:** Details the flood hazards and risk exposure within the community, watershed, or other geographic area. It also explains the risk assessment methodology used and results.

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    - **Changes Since Last FIRM:** Identifies areas where the floodplain, floodway, and/or flood zone designations have changed since the previous flood study.

    - **Flood Depth and Analysis Grids:** Identifies the depth of flooding related to the **Town of Tutwiler's** 10 percent, 4 percent, 2 percent, 1 percent, and 0.2 percent annual chance flood events.

    - **Flood Risk Assessment:** Helps identify the economic impacts of flooding and highlights areas where risk reduction actions may produce the highest return on investment

- **Areas of Mitigation Interest:** Identifies conditions that may contribute to the severity of the flood hazard and associated losses so impacts can be evaluated through the Mitigation plan which can lead to actions to reduce the risk.

Planning

A mitigation plan does exist for the **Town of Tutwiler**. The plan is set to expire on July 16, 2015. The **Town of Tutwiler** can use the Risk MAP Products to identify risks and vulnerabilities associated with floods, evaluate the areas of high mitigation value, and develop long-term strategies for protecting people and property from future flood events, as financially feasible. FEMA offers Hazard Mitigation Assistance grant programs that fund eligible mitigation planning and activities that reduce disaster losses and protect life and property from future disaster damages.

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FEMA and/or one of its technical partners will coordinate with the **Town of Tutwiler** to hold a minimum of three meetings throughout the study process, as described below.

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Roles and Responsibilities

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FEMA and/or one of its technical partners will provide the **Town of Tutwiler** officials with regular project status updates, the data and products described above, and outreach guidance to increase local and Tribal awareness of flood risk. These efforts will better enable the **Town of Tutwiler** to take action to reduce risk, through the adoption of the maps, development, or enhancement of mitigation plans, and increased communication with citizens to inform them about their risk and the steps they can take to mitigate that risk.

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Kristen Martinenza, PE, CFM
FEMA Region IV

Michael Taylor, PE, CFM
AECOM

[COMMUNITY CEO OR TRIBAL OFFICIAL]