Watershed Engagement Plan
Version 1.0, March 2013

Upper Saline Watershed (AR) HUC 08040203

Mapping Activities Statement # *3*

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Executive Summary

The Upper Saline Watershed (Hydrologic Unit Code (HUC) 08040203) encompasses an area of approximately 1,715 square miles and extends across nine counties (Cleveland, Dallas, Garland, Grant, Hot Spring, Jefferson, Perry, Pulaski, and Saline) in the central portion of the State. Major communities include the cities of Benton, Sheridan, portions of Bryant, and the majority of an unincorporated area known as Hot Springs Village. Smaller communities include Bauxite, Fountain Lake, Haskell, Leola, Lonsdale, Poyen, Prattsville, Rockport, Traskwood, and Tull. The portions of the City of Hot Springs, unincorporated East End, and the counties of Perry and Pulaski, contain no Special Flood Hazard Areas (SFHAs) within the boundary of the Upper Saline Watershed.

There are no levees in the watershed that are shown to provide protection from the base flood on the Digital Flood Insurance Rate Maps (DFIRMs).

The population in this watershed totals 114,426 people, based on the 2010 census. The City of Benton is the watershed's highest population center (population: 26,897). There are portions of 16 populated areas inside this watershed.

The primary river in the watershed is the Saline River. The Saline River has its origins in the Ouachita Mountains in Saline County. The Saline River is the primary drainage in the central Arkansas counties, which flows south until it joins the Ouachita River in southeast Arkansas. The Ouachita River ultimately joins the Black and Red Rivers in north-central Louisiana, which then confluences to the Mississippi River.

The measured amount of risk (or risk decile) for the Upper Saline Watershed is 3. Risk decile is calculated from nine parameters including total population density, historical population growth, predicted population growth, housing units, flood policies, single claims, repetitive losses, repetitive loss properties and declared disasters. The scale is 1-10, with one being the highest and 10 being the lowest. This HUC's risk decile rating ranks in the top 25% of HUC-8s in the United States and in Region 6.

In recent years, heavy rains in have caused flooding that has shut down streets and businesses throughout portions of the Upper Saline Watershed. Flood problems are present primarily along the Saline River and in the vicinity of road crossings.

In Saline County and the cities of Benton and Bryant, flood problems have persisted along the Saline River, McNeil Creek, Willow Depot Creek, Salt Creek, and Hurricane Creek.

In the City of Sheridan, within Grant County, flooding problems are present. The City and County are managing their floodplains with non-modernized FIRMs dating back to 1983 and 1991 respectively.

US Representative District 2, Tim Griffin, Little Rock, AR and US Representative District 4, Tom Cotton, Dardanelle, AR represent the Upper Saline Watershed. Former US Representative for District 4 Mike Ross co-sponsored HR898 to suspend FIRMs for Levee Maintenance. There are no levee issues in the Upper Saline Watershed.

Arkansas' US Senators include Mark Pryor and John Boozman. Senator Pryor serves on the Homeland Security and Government Affairs Committee and has been a vocal opposition to FEMA's levee policies. Senator Pryor resides in Little Rock, AR. Senator Boozman resides in Northwest Arkansas.

The following MT-2 Projects (through 1/25/2013) have been identified in the Upper Saline Watershed; however only two appear to be currently active:

Case Number	Community	Stream	Status
11-06-3538R	City of Benton	Hurricane Creek	Suspended
11-06-4249P	City of Bryant	Hurricane Creek	Closed
12-06-0272P	City of Haskell	Trace Creek	Suspended
12-06-0842P	Unincorporated Saline County / City of Benton / City of Bryant	Little Hurricane Creek	Completed
12-06-1036P	City of Benton	Hurricane Creek	Suspended
12-06-1422P	City of Bryant	Hurricane Creek	Under Review
13-06-1581P	Unincorporated Saline County (Hot Springs Village)	Cedar Creek / Lake Balboa	Under Review

Of the 9 counties located within the Upper Saline Watershed, only Cleveland County is not participating in the NFIP. The counties of Dallas, Garland, Grant, Hot Spring, Jefferson, Perry, Pulaski, and Saline are participating in the NFIP. There are 14 incorporated communities and two unincorporated communities with SFHA's within the watershed. The two unincorporated communities are East End and Hot Springs Village. Of the 14 incorporated communities, 10 are participating in the NFIP and four are not participating. The participating cities include Benton, Bryant, Haskell, Hot Springs, Rockport, and Sheridan, and the participating towns include Leola, Lonsdale, Poyen, and Prattsville.

Current watershed risk analysis at the HUC-8 level is being evaluated using three major factors (or trifecta factors): population, topographic data availability and risk decile.

The Upper Saline Watershed was selected by the Arkansas Natural Resources Commission (ANRC), the State's Cooperating Technical Partner (CTP) with FEMA Region 6, for the reasons summarized below.

- Saline County includes the I-30 Corridor that links several communities to the Little Rock / North Little Rock metropolitan area. The communities of Benton and Bryant, as well as unincorporated Saline County, have seen extensive development as families and businesses migrate out from the urban centers to more suburban locations.
- The percent change in population from 2000 to 2010 for the communities within Saline County was between 25 – 49 %, which equates to a population increase of 20,000 to 39,000.
- The percent change in population from 2000 to 2010 for the communities within Grant County was which equates to a population increase of up to 9,999.
- Flooding problems along Hurricane Creek have persisted for several years as development changes have likely impacted the hydrologic and hydraulic conditions of the Hurricane Creek watershed. These issues have escalated in some cases to threats of and actual lawsuits.
- During the recent Map Modernization study for Saline County, the scoping process revealed community requests for a restudy of Hurricane Creek and Little Hurricane Creek. The countywide study revealed the need for a restudy due to mapping inconsistencies with new topography. At the time of the Saline countywide study, funding was not available for any restudies.
- Saline County has expressed an interest and potential cost sharing opportunity in the acquisition of quality topographic data for the unincorporated county.

- LiDAR data was collected for Grant County as part of a previous FEMA project. This data has not been processed. Partnering opportunities will be investigated in order to get this data processed and Grant County Flood Insurance Rate Maps (FIRMs) modernized.

The Federal Emergency Management Agency (FEMA) looks to promote mitigation action within the watershed. After internal and partner review of the communities within the watershed, the following are overarching opportunities identified to promote community action within the watershed:

- Grant County has elevation data in a form that only requires final processing in order to provide detailed coverage, which could pave the way for Grant County to pursue a modernized Flood Insurance Rate Map,
- Portions of Saline County have elevation data, and the acquisition of addition coverage throughout the Saline County is being considered, and
- Mitigation activities to reduce risk to life and property are underway in the watershed.

The ANRC through its CTP Program has initiated discussion throughout the state to encourage and engage stakeholders to consider partnering opportunities that will allow cost and data sharing in order to advance project opportunities at the watershed level that will benefit local, state, and other Federal agencies.

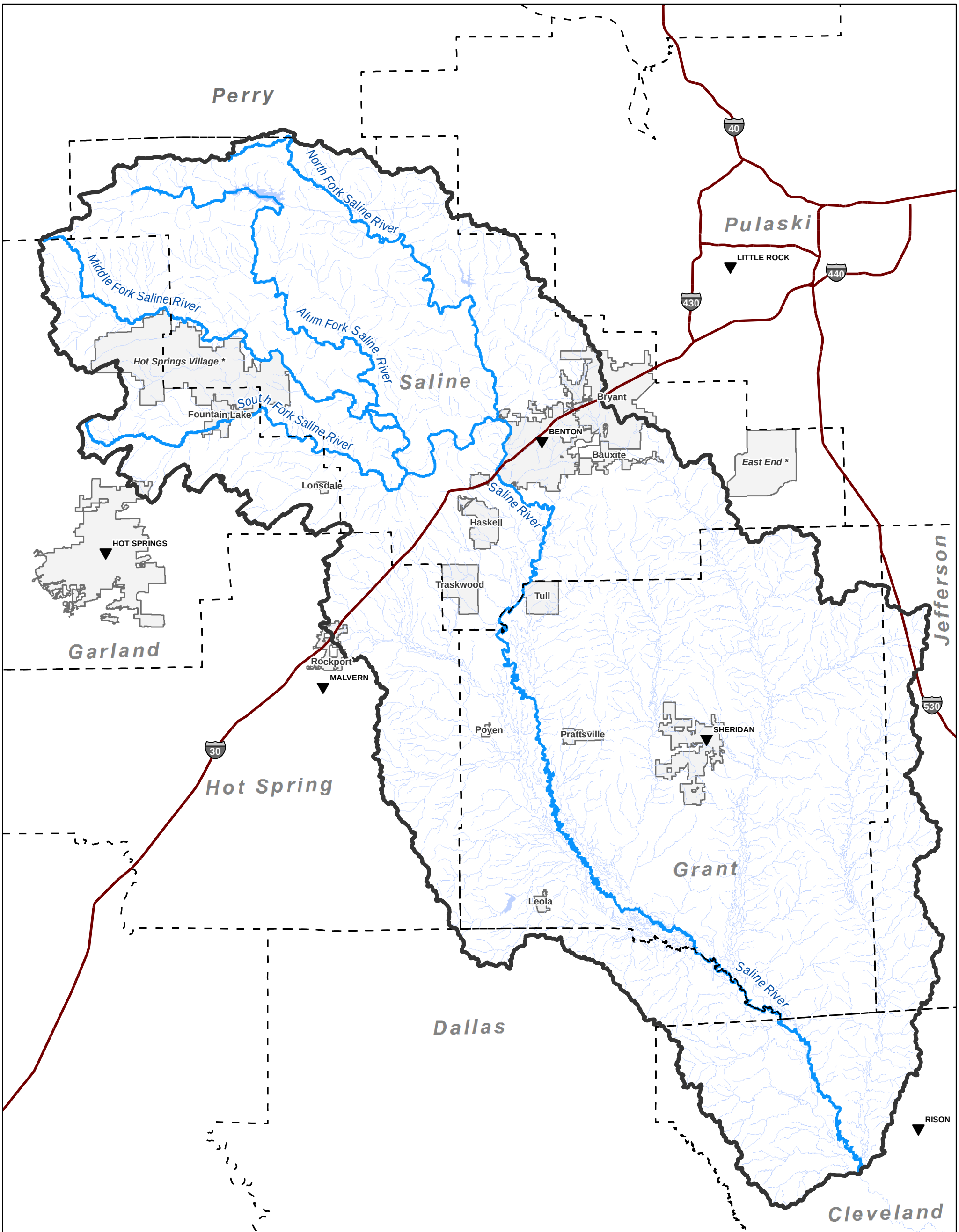
The information contained in this document represents the data collected for the watershed prior to the detailed analysis, which will occur during the Discovery process. Once the Discovery Report is complete, this document will then become an appendix to that Report.

Discovery Overview

FEMA is currently implementing the Risk Mapping, Assessment, and Planning (Risk MAP) Program across the nation. The purpose of Risk MAP is continued improvement of flood hazard information for the National Flood Insurance Program (NFIP), the promotion of increased national awareness and understanding of flood risk and the support of federal, state, and local mitigation actions to reduce risk.

The vision and intent of the Risk MAP program is to deliver quality data that increases public awareness and leads to mitigation actions that reduce risk to life and property through collaboration with state and local entities. To achieve this vision, FEMA transformed its traditional flood identification and mapping efforts into an integrated process to more accurately identify, assess, communicate, plan for and mitigate flood risks. Risk MAP attempts to address gaps in flood hazard data and form a solid foundation for risk assessment, floodplain management, and provide state and local entities with information needed to mitigate flood-related risks.

The FEMA Region 6 office, in partnership with the State of Arkansas through the Arkansas Natural Resources Commission (ANRC), began the Discovery process in the Upper Saline Watershed in October 2012 to gather local information and available data to determine project viability and the need for Risk MAP products to assist communities become more resilient. Figure 1 provides an overview of the Upper Saline Watershed and the Communities. FEMA, the State of Arkansas and contract personnel partnered throughout the Discovery process to facilitate communications, meetings, identification of risk, and final reporting and documentation.



WATERSHED AND COMMUNITIES MAP

UPPER SALINE RIVER WATERSHED (HUC 08040203)

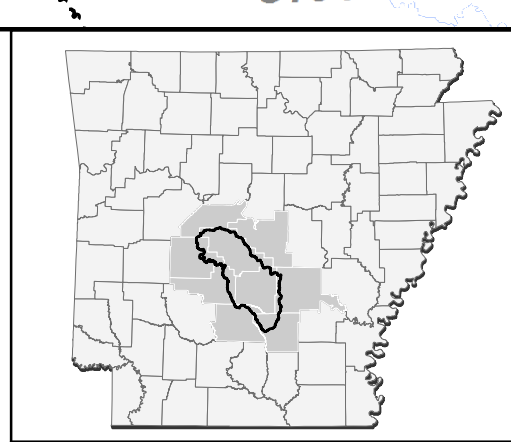
FEMA

N W E S

0 5 10 Miles

- County Seat
- Interstate
- Saline River and Major Reaches
- Other Waters
- Upper Saline River HUC 8
- City Limits
- County Boundaries

* Unincorporated Communities



Project Location

FIGURE 1

DATE: 3/6/2013

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In Risk MAP, projects are analyzed on a watershed basis, so Discovery Meetings target stakeholders from throughout the watershed on local, regional, state, and federal levels. Discovery initiates open lines of communication and relies on local involvement for productive discussions about flood risk. Through the Discovery process, FEMA and the State can determine which areas of the HUC 8 Discovery watersheds may be examined for further flood risk identification and assessment in a collaborative manner while taking into consideration the information collected from local communities. The communities included in the Upper Saline Watershed are found in Table 1. The meeting provides a forum for a watershed-wide discussion to understand how the included communities' flood risks are related.

Table 1: Project Area Community List

Community Name	CID	Participating Community?
Cleveland, County of	050038	No
Dallas, County of	050061	Yes
Garland[1], County of	050433	Yes
• Fountain Lake, Town of – Garland County	050509	No
• Hot Springs[1,2], City of – Garland County	050084	Yes
• Hot Springs Village, Unincorporated – Garland/Saline Counties	N/A	Yes
• Lonsdale, Town of – Garland County	050586	Yes
Grant, County of	050434	Yes
• Leola, Town of – Grant County	050261	Yes
• Poyen[2], Town of – Grant County	050278	Yes
• Prattsville, Town of – Grant County	050279	Yes
• Sheridan, City of – Grant County	050367	Yes
• Tull, Town of – Grant County	050297	No
Hot Spring, County of	050437	Yes
• Rockport, City of – Hot Spring County	050481	Yes
Jefferson, County of	050440	Yes
Perry[2], County of	050165	Yes
Pulaski[2], County of	050179	Yes
Saline, County of	050191	Yes
• Bauxite, Town of - Saline County	050527	No
• Benton, City of - Saline County	050419	Yes
• Bryant, City of - Saline County	050308	Yes
• East End[2], Unincorporated - Saline County	N/A	Yes
• Haskell, City of – Saline County	050416	Yes
• Traskwood, City of – Saline County	050294	No

[1]CRS Participating Community
[2]No SFHA's located in Upper Saline Watershed

During Discovery, the ANRC and FEMA will reach out to local communities to:

- Gather information about local flood risk and flood hazards.
- Review current and historic mitigation plans to understand local mitigation capabilities, hazard risk assessments, and current or future mitigation activities.
- Include multi-disciplinary staff from within their community to participate and assist in the development of a watershed vision.

Watershed Engagement Plan was prepared throughout the Pre-Discovery efforts of the CTP Watershed Project Team. The Watershed Project Team is comprised of the staff shown in Table 2. A listing of the other State and Federal Agencies that will be invited to participate in the Discovery process is included in Table 3. A brief summary of the Upper Saline Watershed data is provided in Table 4. A summary of general information for each community included in the Upper Saline Watershed is provided in Tables 5.1 through 5.24 and a summary of the current FIRM effective dates and map status is provided in Table 6.

Table 2: Watershed Project Team

Name	Organization	Project Role
Michael Borengasser	State of Arkansas / ANRC	CTP Coordinator / Project Manager / State NFIP Coordinator
Matthew DuBois	FEMA Region 6	Project Monitor – FEMA Engineering And Mapping Lead
Linda Johnson	FTN Associates, Ltd. (FTN)	CTP Contractor / Project Manager
MaryBeth Breed	FTN	CTP Contractor / Asst. Project Manager
Stephen Noe	AMEC Environment & Infrastructure (AMEC)	CTP Contractor
Alicia Williams	AMEC	CTP Contractor
Josh Rogers	State Of Arkansas / ADEM	State Hazard Mitigation Officer

Table 3: Federal and State Agency Contact List

Federal and State Agency Contacts for Watershed	
US Army Corps of Engineers (USACE) Little Rock District	Chad Dulaney, P.E. 700 West Capitol Ave. Little Rock, AR 72201 501-324-5032 / Chad.Dulaney@usace.army.mil
US Army Corps of Engineers (USACE) Vicksburg District	Craig McRaney Levee Safety Program Manager 601-631-5272 / Craig.mcraney@usace.army.mil
US Geologic Survey (USGS)	Jaysson Funkhouser, P.E. 401 Hardin Road Little Rock, AR 72211 501-766-3663 / jefunkho@usgs.gov

Federal and State Agency Contacts for Watershed	
US Forest Service (USFS) / Ouachita National Forest	Michael A. Crump, Hydrologist US Forest Service, Southern Region 1720 Peachtree Rd NW, Room 816 North Atlanta, GA 30309 404-347-3872 / mcrump@fs.fed.us
Natural Resources Conservation Service (NRCS)	Walter Delp, P.E. State Conservation Engineer Room 3416, Federal Building 700 West Capitol Avenue Little Rock, AR 72201-7752 501-301-3141 / Walter.delp@ar.usda.gov
Arkansas Natural Resources Commission (ANRC) FloodPlain Management	Michael Borengasser, State NFIP Coordinator / State Climatologist 101 East Capitol Avenue, Suite 350 Little Rock, AR 72201 501-682-3969 / michael.borengasser@arkansas.gov
ANRC Dam Safety Program	Nancy E. Gambill, PE Supervisor 101 East Capitol Avenue, Suite 350 Little Rock, AR 72201 501-682-3981 / Nancy.Gambill@arkansas.gov
ANRC Dam Safety Program	Angela Gardner Flood Risk Mgmt Coordinator 101 East Capitol Avenue, Suite 350 Little Rock, AR 72201 501-682-3982 / Angela.Gardner@arkansas.gov
Arkansas Department of Emergency Management (ADEM)	Josh Rogers State Hazard Mitigation Officer Building 9501, Camp Joseph T. Robinson North Little Rock, AR 72199 501-683-6700 / Josh.rogers@adem.arkansas.gov
ADEM	Veronica Villalobos-Pogue Federal Grants Coordinator Building 9501, Camp Joseph T. Robinson North Little Rock, AR 72199 501-683-6700 / Veronica.Pogue@adem.arkansas.gov
ADEM	Brenda Wilson State Mitigation Grant Coordinator Building 9501, Camp Joseph T. Robinson North Little Rock, AR 72199 501-683-6726 / Brenda.Wilson@adem.arkansas.gov

Federal and State Agency Contacts for Watershed	
ADEM	Layce Blake HMGP Coordinator Building 9501, Camp Joseph T. Robinson North Little Rock, AR 72199 501-683-6700 / Layce.Blake@adem.arkansas.gov
ADEM	Rick Kelley, Central Area Coordinator (Perry, Pulaski & Saline Counties) Building 9501, Camp Joseph T. Robinson North Little Rock, AR 72199 501-683-6700 / Email Address Not Available
ADEM	Ken Ouellette Southeast Area Coordinator (inc. Cleveland, Dallas, & Jefferson Counties) 210 S. Main Street Monticello, AR 71655 870-367-3592 / Email Address Not Available
ADEM	Teresa Smith, Southwest Area Coordinator (Garland, Grant,& Hot Spring Counties) 2500 South Main Street Hope, AR 71801 870-722-8545 / Email Address Not Available
Arkansas Highway & Transportation Department (AHTD)	Scott Fischer Arkansas Highway & Transportation Department Hydraulics Branch P.O. Box 2261 Little Rock, AR 72203 501-569-2352 scott.fisher@arkansashighways.com
Arkansas Game & Fish Commission (AGFC)	Wade Walker Field Biologist, Winona Wildlife Management Area 350 Fish Hatchery Road Hot Springs, AR 71901 877-525-8606 / Email Address Not Available

Table 4: Watershed Data

Watershed	**Upper Saline**		
Major Stream(s):	Saline River		**HUC 8 Code:** 08040203
Multiple Regions:	☒ No ☐ Yes	Regions: 6	
Population Centers:	Bauxite, Benton, Bryant, Fountain Lake, Haskell, Hot Springs Village, Leola, Lonsdale, Poyen, Prattsville, Rockport, Sheridan, Traskwood, and Tull		
Demographics* of Watershed			
	Population for Deployment: 114,426		
Additional Notes:			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.1: Community Information

Cleveland County	***Cleveland County***			**CID Number:**	**050038**
Contact Information:	Gary Spears County Judge (870) 325-6214 judgespears@tds.net	Cleveland County Courthouse #20 Magnolia Street Rison, AR 71665			
Website:		**Mayor:**		**Term Ends:**	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age:	36.9	Median Household Income:	$34,292	
	Education:	85.5 % high school graduate or higher 14.0% bachelor's degree or higher	Special Populations:		
	Community Population:	8,689	Primary Land Use:	Forest	
FEMA History of Engagement:	Nonparticipating County, partial countywide completed including Cities of Rison and Kingsland; County is unmapped, FIRM Effective 02/02/2012				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					
Hazard Mitigation Plan Name:					
Plan Owner:		**Plan Author:**			
Plan Status:	☐ Approved ☒ Expired	☐ Approved pending adoption ☐ Undergoing update	☐ In review		
Important Dates:	Approved:	Expires: 03/03/2013			

Cleveland County	*Cleveland County*	**CID Number:**	**050038**
Top Three Hazards Identified in Plan:			
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.2 Community Information

Dallas County	**Dallas County**			**CID Number:**	**050061**
Contact Information:	Jimmy Jones County Judge (870) 352-3371 James.jones@arkansas.gov	Dallas County Courthouse Third & Oak Streets Fordyce, AR 71752			
Website:		**Mayor:**		**Term Ends:**	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age:	38	Median Household Income:	$30,011	
	Education:	80.0 % high school graduate or higher 12.7% bachelor's degree or higher	Special Populations:		
	Community Population:	8,116	Primary Land Use:	Forest	
FEMA History of Engagement:	Participating, FIRM effective 07/17/2012; Zone A mapping only				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:	The extreme NE corner of the unincorporated county is included in the Upper Saline Watershed				
Hazard Mitigation Plan Name:					
Plan Owner:		**Plan Author:**			
Plan Status:	☒ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update	☐ In review		
Important Dates:	Approved:	Expires:	07/14/2014		
Top Three Hazards Identified in Plan:					

Dallas County	Dallas County	CID Number:	050061
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.3 Community Information

Garland County	Garland County			CID Number:	050433
Contact Information:	Rick M. Davis County Judge 501-622-3600 rdavis@garlandcounty.org	Garland County Courthouse Third & Oak Streets Fordyce, AR 71752		Janice Navin, FPA 200 Woodbine, Rm 123 Hot Springs, AR 71901 501-622-3739 floodperm@garlandcounty.org	
Website:		Mayor:		Term Ends:	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Median Age:	67.3	Median Household Income:	$38,210	
	Education:	85.1 % high school graduate or higher 20.6% bachelor's degree or higher	Special Populations:		
	Community Population:	96,024	Primary Land Use:	Forest	
FEMA History of Engagement:	Participating, FIRM effective 1/20/2010, CRS Community				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:	unincorporated Hot Springs Village (a portion is located in Garland County)				
Hazard Mitigation Plan Name:					
Plan Owner:		Plan Author:			
Plan Status:	☒ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update		☐ In review	
Important Dates:	Approved:		Expires:	06/11/2014	
Top Three Hazards Identified in Plan:					

Garland County	Garland County	CID Number:	050433
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.4 Community Information

Garland County	Town of Fountain Lake			CID Number:	050509
Contact Information:	Mayor Jack Fields 501-624-6448 jackcfields@peoplepc.com	Town of Fountain Lake 7148 Park Ave Fountain Lake, AR 71901			
Website:		Mayor:	Jack Fields	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Community Population:	503	Primary Land Use:		
FEMA History of Engagement:	Not Participating; FIRM effective 01/20/2010				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.5 Community Information

Garland County	City of Hot Springs			CID Number:	050084
Contact Information:	Denny McPhate 501-321-6866 DMcPhate@cityhs.net	City of Hot Springs P.O. Box 700 Hot Springs, AR 70902			
Website:	http://www.cityhs.net/	Mayor:	Ruth Carney	Term Ends:	
Demographics*:	☐ Rural	☐ Suburban		☒ Urban	
	Community Population:	35,193	Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 01/20/2010, CRS Community				

Garland County	City of Hot Springs	CID Number:	050084
Additional Notes:	Only a small portion of the City of Hot Springs is included in the Upper Saline Watershed, and of the small portion there are no SFHAs. City of Hot Springs has citywide topographic data available.		

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.6 Community Information

Garland / Saline Counties	Hot Springs Village (unincorporated)			CID Number:	N/A
Contact Information:	Gary Ballard 501-303-5653 Gt_ballard@sbcglobal.net	Saline County 121 E Conway St Benton, AR 72015		County Judge Lanny Fite 501-303-5640 lfite@salinecounty.org	
Website:	http://www.salinecounty.org/	Mayor:	N/A	Term Ends:	
Demographics*:	☐ Rural	☒ Suburban		☐ Urban	
	Community Population:	N/A	Primary Land Use:		
FEMA History of Engagement:	Hot Springs Village is included in the effective FIRMs for Saline County (06/19/2012) and Garland County (01/20/2012)				
Additional Notes:	Hot Springs Village is unincorporated and is located in portions of Garland and Saline Counties. Flood risk mapping and emergency action plans s need to be updated in the village. Floodplain management responsibility appears to lie with Saline County.				

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.7 Community Information

Garland County	Town of Lonsdale			CID Number:	050586
Contact Information:	Steve Snellback 501-993-0972 mayoroflonsdale@yahoo.com	Town of Lonsdale P.O. Box 125 Lonsdale, AR 72087			
Website:	http://www.cityhs.net	Mayor:	Steve Snellback	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Community Population:	118	Primary Land Use:		
FEMA History of Engagement:	Participating, Firm effective 01/20/2010				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.8 Community Information

Grant County	**Grant County**			**CID Number:**	**050434**
Contact Information:	Kemp Nall County Judge 870-942-2551 KNall@windstream.net	Grant County Courthouse 101 W. Center Sheridan, AR 72150		Randy Pruitt, FPA PO Box 98 Sheridan, 72150 (870) 942-3333, randy.pruitt@adem.arkansas.gov	
Website:		**Mayor:**	N/A	**Term Ends:**	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Median Age:	36.6	Median Household Income:	$51,589	
	Education:	84.8 % high school graduate or higher 14.7% bachelor's degree or higher	Special Populations:		
	Community Population:	17,853	Primary Land Use:		
FEMA History of Engagement:	Participating, Non-modernized, no published FIRMs for unincorporated areas; LiDAR data was acquired for all of Grant County but the data has not been processed to date. Topographic Data Development Report, FEMA Contract HSFEHQ-09-D-0369, October 30, 2010.				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					
Hazard Mitigation Plan Name:					
Plan Owner:		**Plan Author:**			
Plan Status:	☐ Approved ☒ Expired	☐ Approved pending adoption ☐ Undergoing update		☐ In review	
Important Dates:	Approved:		Expires:	03/03/2013	
Top Three Hazards Identified in Plan:					
Top Three Plan Mitigation Strategies Related to Flooding:					
Recent Hazard Mitigation Plan Grant Activity?					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.9 Community Information

Grant County	Town of Leola			CID Number:	050261
Contact Information:	William Woodson 870-765-2170	Town of Leola P.O. Box 11 Leola, AR 72084			
Website:		Mayor:	Steve Davis	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Community Population:	530	Primary Land Use:		
FEMA History of Engagement:	All Zone C / X ; No published FIRM; Participating				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.10 Community Information

Grant County	Town of Poyen			CID Number:	050278
Contact Information:	Michael Holiman 501-332-6607 fgray@suddenlink.net	P.O. Box 248 Poyen, AR 72128			
Website:		Mayor:	Michael Holiman	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Community Population:	272	Primary Land Use:		
FEMA History of Engagement:	All Zone C / X ; No published FIRM; Participating				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.11 Community Information

Grant County	Town of Prattsville			CID Number:	050279
Contact Information:	Joel Rhea 870-699-4614	P.O. Box 27 Prattsville, AR 7229			
Website:		Mayor:	Noel Loftis	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Community Population:	282	Primary Land Use:		

Grant County	Town of Prattsville	CID Number:	050279
FEMA History of Engagement:	All Zone A, C / X ; No published FIRM, Participating		
Additional Notes:			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.12 Community Information

Grant County	City of Sheridan			CID Number:	050367
Contact Information:	Randy Pruitt 870-942-3333 Randy.pruitt@adem.arkansas.gov	PO Box 98 Sheridan, AR 72150		City of Sheridan 101 West Center Sheridan, AR 72150 870-942-2551	
Website:	http://www.sheridanark.com/	Mayor:	Joe Wise, Jr.	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Community Population:	4,603	Primary Land Use:		
FEMA History of Engagement:	All Zone A, C / X ; Participating; non-modernized FIRM effective 01/18/1983				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.13 Community Information

Grant County	Town of Tull			CID Number:	050297
Contact Information:	Jeff Westbrook 501-778-3546 jeffutu@aol.com	Town of Tull 8208 N. Main Tull, AR 72015			
Website:		Mayor:	Jeff Westbrook	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban		☐ Urban	
	Community Population:	448	Primary Land Use:		
FEMA History of Engagement:	Not participating				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.14 Community Information

Hot Spring Co	**Hot Spring County**			**CID Number:**	**050437**
Contact Information:	Blake Riggan 501-332-2794 jbriggan@sbcglobal.net	210 Locust St Malvern, AR		Hot Spring County Judge Bill Scrimshire 501-332-2261 cjudge@hotspringcounty.org	
Website:		**Mayor:**	N/A	**Term Ends:**	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age:	38	Median Household Income:	$38,188	
	Education:	81.2 % high school graduate or higher 12.3% bachelor's degree or higher	Special Populations:		
	Community Population:	32,923	Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 03/03/2011; only the extreme east side of the County is included in the Upper Saline Watershed.				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					
Hazard Mitigation Plan Name:					
Plan Owner:		**Plan Author:**			
Plan Status:	☒ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update	☐ In review		
Important Dates:	Approved:	Expires: 09/04/2013			
Top Three Hazards Identified in Plan:					
Top Three Plan Mitigation Strategies Related to Flooding:					
Recent Hazard Mitigation Plan Grant Activity?					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.15 Community Information

Hot Spring Co	City of Rockport			CID Number:	050481
Contact Information:	Darrell Hughs (501) 332-8700 rockportmayor@hotmail.com	P.O. Box 442 Rockport, AR 72104			
Website:		Mayor:	Darrell Hughs	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Community Population:	755	Primary Land Use:		
FEMA History of Engagement:	Participating; All Zone A or X, No elevation determined; FIRM effective 03/03/2011; the east ½ of Rockport is located in the Upper Saline Watershed with a very small Zone A stream in the extreme NE corner.				
Additional Notes:					

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.16 Community Information

Jefferson County	Jefferson County			CID Number:	050440
Contact Information:	Dutch King County Judge 870-541-5360 countyjudgedutch@sbcglobal.net	101 W Barraque St Pine Bluff AR 71601			
Website:		Mayor:	N/A	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age:	36	Median Household Income:	$ 33,957	
	Education:	82.6% high school graduate or higher 16.9% bachelor's degree or higher	Special Populations:		
	Community Population:	84,278	Primary Land Use:		
FEMA History of Engagement:	Participating; FIRM 03/16/2009; only extreme western Jefferson County is included in the Upper Saline Watershed. A portion of Jefferson County is included in the Lower Arkansas-Maumelle Watershed which is an ongoing Risk MAP project.				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					
Hazard Mitigation Plan Name:					

Jefferson County	Jefferson County		CID Number:	050440
Plan Owner:		Plan Author:		
Plan Status:	☐ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update	☐ In review ☒ NONE	
Important Dates:	Approved:	Expires:		
Top Three Hazards Identified in Plan:				
Top Three Plan Mitigation Strategies Related to Flooding:				
Recent Hazard Mitigation Plan Grant Activity?				

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.17 Community Information

Perry County	Perry County			CID Number:	050165
Contact Information:	Baylor House County Judge 501-889-5128 Pcjudge1@windstream.net	310 West Main Street Perryville, AR 72126			
Website:	www.perrycountyarkansas.com	Mayor:	N/A	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age:	38	Median Household Income:	$37,170	
	Education:	81.5% high school graduate or higher 11.5% bachelor's degree or higher	Special Populations:		
	Community Population:	10,445	Primary Land Use:	Forest	
FEMA History of Engagement:	Participating, Never Mapped; only very small part of Upper Fork of Saline River and no SFHA is included in the Upper Saline Watershed.				
Additional Notes:					
Hazard Mitigation Plan Name:					
Plan Owner:		Plan Author:			
Plan Status:	☒ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update	☐ In review		
Important Dates:	Approved:	Expires:	10/15/2014		

Perry County	Perry County	CID Number:	050165
Top Three Hazards Identified in Plan:			
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.18 Community Information

Pulaski County	Pulaski County			CID Number:	050179
Contact Information:	Sherman Smith, Dir. Pulaski County Public Works (501) 340-6800 sdsmith@co.pulaski.ar.us	F.G. Villines, III County Judge 501-340-8305 bvillines@co.pulaski.ar.us			
Website:	www.co.pulaski.ar.us	Mayor:	N/A	Term Ends:	
Demographics*:	☐ Rural	☐ Suburban	☒ Urban		
	Median Age:	35	Median Household Income:	$45,897	
	Education:	88.8% high school graduate or higher 31.3% bachelor's degree or higher	Special Populations:		
	Community Population:	382,748	Primary Land Use:		
FEMA History of Engagement:	Participating, effective FIRMs 10/19/2001, modernized countywide FIRMs issued preliminary 09/21/07, small area ofPulaski County is part of the Upper Saline Watershed and no SFHA, the majority of Pulaski County is included in the Lower Arkansas-Maumelle Watershed which is a ongoing Risk MAP project.				
Additional Notes:	Pulaski County is currently updating their Hazard Mitigation Plan (2012)				
Hazard Mitigation Plan Name:					
Plan Owner:		Plan Author:			
Plan Status:	☐ Approved ☐ Expired	☐ Approved pending adoption ☒ Undergoing update	☐ In review		
Important Dates:	Approved:	Expires:			

Pulaski County	Pulaski County	CID Number:	050179
Top Three Hazards Identified in Plan:			
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.19 Community Information

Saline County	Saline County			CID Number:	050191
Contact Information:	Gary Ballard 501-303-5653 Gt_ballard@sbcglobal.net	Saline County 121 E Conway St Benton, AR 72015		County Judge Lanny Fite 501-303-5640 lfite@salinecounty.org	
Website:	http://www.salinecounty.org/	Mayor:	N/A	Term Ends:	
Demographics*:	☐ Rural	☒ Suburban		☐ Urban	
	Median Age:	38	Median Household Income:	$52,982	
	Education:	88.6% high school graduate or higher 22.9% bachelor's degree or higher	Special Populations:		
	Community Population:	107,118	Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 06/19/2012				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:					
Hazard Mitigation Plan Name:					
Plan Owner:		Plan Author:			
Plan Status:	☒ Approved ☐ Expired	☐ Approved pending adoption ☐ Undergoing update		☐ In review	
Important Dates:	Approved:	Expires:	09/03/2013		
Top Three Hazards Identified in Plan:					

Saline County	Saline County	CID Number:	050191
Top Three Plan Mitigation Strategies Related to Flooding:			
Recent Hazard Mitigation Plan Grant Activity?			

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.20 Community Information

Saline County	Town of Bauxite			CID Number:	050572
Contact Information:	Johnny McMahan 501-557-5936 jmcmahan@bauxitearkansas.us	6055 Stanley Circle Bauxite, AR 72011			
Website:		Mayor:	Johnny McMahan	Term Ends:	
Demographics*:	☒ Rural	☐ Suburban	☐ Urban		
	Median Age: 37		Median Household Income:	$46,153	
	Education:	71.5% high school graduate or higher 8.7% bachelor's degree or higher	Special Populations:		
	Community Population:	487	Primary Land Use:		
FEMA History of Engagement:	Not Participating, FIRM effective 06/19/2012				

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.21 Community Information

Saline County	City of Benton			CID Number:	050192
Contact Information:	Jim Towe 501-776-5900	P.O. Box 607 Benton, AR 72018			
Website:	http://www.benton.ar.gov/	Mayor:	Dave Mattingly	Term Ends:	
Demographics*:	☐ Rural	☒ Suburban	☐ Urban		
	Median Age:	36	Median Household Income:	$41,503	
	Education:	82.1% high school graduate or higher 18.9% bachelor's degree or higher	Special Populations:		

Saline County	City of Benton			CID Number:	050192
	Community Population:	30,681	Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 06/19/2012				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:	Topographic data available				

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.22 Community Information

Saline County	City of Bryant			CID Number:	050308
Contact Information:	Greg Huggs 501-847-5559 ghuggs@cityofbryant.com	210 SW Third St Bryant, AR 72022		Mayor Dabbs 501-847-5559 mayordabbs@cityofbryant.com	
Website:	http://www.cityofbryant.com/	**Mayor:**	Jill Dabbs	**Term Ends:**	
Demographics*:	☐ Rural	☒ Suburban		☐ Urban	
	Median Age:	36	Median Household Income:	$57,210	
	Education:	88.9% high school graduate or higher 24.9% bachelor's degree or higher	Special Populations:		
	Community Population:	16,688	Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 06/19/2012, the western half of the City is included in the Upper Saline Watershed				
Additional Stakeholder Information:					
Contact Information:					
Additional Notes:	Topographic data available; population change from 2000 – 2010 was +70.9%				

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.23 Community Information

Saline County	**City of Haskell**				**CID Number:**	**050416**
Contact Information:	Daran Robertson 501-776-1201 daranlane@sbcglobal.net		2520 Highway 229 Haskell, AR 72015		Jeff Arey 501-776-2666 mayor@cityofhaskell.org	
Website:	http://www.cityofhaskell.org/	**Mayor:**	Jeff Arey		**Term Ends:**	
Demographics*:	☒ Rural		☐ Suburban		☐ Urban	
	Median Age:	34	Median Household Income:		$47,441	
	Education:	69.5% high school graduate or higher 6.2% bachelor's degree or higher		Special Populations:		
	Community Population:	3,990		Primary Land Use:		
FEMA History of Engagement:	Participating, FIRM effective 06/19/2012, the entire city limits are included in the Upper Saline Watershed					
Additional Stakeholder Information:						
Contact Information:						
Additional Notes:						

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 5.24 Community Information

Saline County	**City of Traskwood**				**CID Number:**	**050294**
Contact Information:	Carol Sharp 501-778-7990		212 Main Street Traskwood, AR 72015			
Website:		**Mayor:**	Michael Nash		**Term Ends:**	
Demographics*:	☒ Rural		☐ Suburban		☐ Urban	
	Median Age:	39	Median Household Income:		$39,993	
	Education:	73.6% high school graduate or higher 6.2% bachelor's degree or higher		Special Populations:		
	Community Population:	518		Primary Land Use:		
FEMA History of Engagement:						

Saline County	City of Traskwood	CID Number:	050294
Additional Stakeholder Information:			
Contact Information:			
Additional Notes:	Non-participating in NFIP; FIRM effective 06/19/2012, the entire city limits are included in the Upper Saline Watershed		

*Note: All Demographic information included in this report has been provided by the US Census Bureau. www.census.gov Information is based on 2010 Census Results and/or http://www.City-data.com

Table 6: Current FIRM Date and Status

County	FIRM Date	FIRM Status
Cleveland County	02/02/2012	ALL ZONE A, X – No Elevations; Modernized (Cities of Rison & Kingsland only, county is unmapped)
Dallas County	07/17/2012	ALL ZONE A, X – No Elevations; Modernized
Garland County	01/20/2012	REVISED; Modernized
Grant County	02/01/1991	ALL ZONE A, X – No Elevations; Not Modernized
Hot Spring County	03/03/2011	REVISED; Modernized
Jefferson County	03/16/2009	REVISED; Modernized
Perry County	06/20/2000	REVISED; Not Modernized
Pulaski County	10/19/2001	REVISED; Preliminary (Modernized) Maps Issued 09/21/2007
Saline County	06/19/2012	REVISED; Modernized

Congressional and Media Engagement

In order to achieve success with any Region 6 Risk MAP project, members of Congress and their staff members, as well as the media must be aware and understand the study process. Not only will their understanding enable them to communicate effectively about the study details and process, it allows for greater collaboration and coordination. The current members of Congress are provided in Table 7. The boundaries of the U.S. Congressional Districts and the State Representative and State Senate Districts are provided on Figures 2 and 3 respectively.

Working with FEMA to inform both legislators and the media will improve credibility and opens the door to understanding risk in a more holistic, comprehensive manner. Briefings and other tools available through FEMA External Affairs staff can be developed to raise awareness with legislators and media in the Upper Saline Watershed. All team members working on Risk MAP projects are working toward the following goals:

- Raise awareness of Risk MAP natural hazards within the Upper Saline Watershed and throughout Region 6, and
- Empower the communities in the Upper Saline Watershed and throughout Region 6 to take action to mitigate their natural hazard risks.

Table 7: Congressional Contacts

U.S. Senator:	Mark Pryor	**Term Expiration Date:** 2014
	Washington DC Office: 255 Dirksen Senate Office Building Washington, D.C. 20510 202-224-5353 (p) 201-228-0908 (f) Email contact form: http://www.pryor.senate.gov/public/index.cfm?p=ContactMe Website: http://www.pryor.senate.gov/public/	**Local Office:** The River Market 500 Clinton Ave, Ste 401 Little Rock, AR 72201 501-326-6336 (p) 501-324-5320 (f) Toll Free in AR: 877-259-9602 Facebook: www.facebook.com/pages/-Mark-Pryor/9248638978
FEMA History of Engagement:	Serves on the Homeland Security and Governmental Affairs Committee; Bill to Protect Arkansas from FEMA Mistakes; prominent in levee issues in Arkansas; Part of bipartisan group of senators working to halt proposal that would mandate flood insurance for individuals behind healthy levees and other flood control structures.	

U.S. Senator:	**John Boozman**	**Term Expiration Date:** 2016
Contact Information:	**Washington DC Office:** 320 Hart Senate Office Building Washington, DC 20510 202-224-4843 Email contact form: http://www.boozman.senate.gov/public/index.cfm/contact Website: http://www.boozman.senate.gov/public/index.cfm/	**Local Office(s):** 1401 W. Capitol Ave., Plaza F Little Rock, AR 72201 501- 372-7153 1120 Garrison Ave, Suite B Fort Smith, AR 72901 479-573-0189 213 West Monroe, Suite N Lowell, AR 72745 479-725-0400 1001 Hwy. 62 East, Suite 11 Mountain Home, AR 72653 Phone: 870- 424-0129 300 South Church St., Suite 400 Jonesboro, AR 72401 Phone: 870-268-6925 620 E. 22nd St., Suite 204 Stuttgart, AR 72160 Phone: 870-672-6941 106 West Main St., Suite 104 El Dorado, AR 71730 Phone: 870-863-4641

U.S. Senator:	**John Boozman** **Term Expiration Date:** 2016
FEMA History of Engagement:	Part of bipartisan group of senators working to halt proposal that would mandate flood insurance for individuals behind healthy levees and other flood control structures.

U.S. Representative:	Tim Griffin (District 2) **Term Expiration Date:** 2014	
Contact Information:	**Washington DC Office:** 1232 Longworth HOB Washington, DC 20515 202-225-2506 Email or email contact form: https://griffin.house.gov/contact-me/email-me Website: http://griffin.house.gov/	**Local Offices:** 1105 Deer Street, Suite 12 Conway, AR 72032 501-358-3481 1501 North University, Ste 150 Little Rock, AR 72207 501-324-6029 Facebook: http://www.facebook.com/events/136526296508384/
FEMA History of Engagement:	None known	

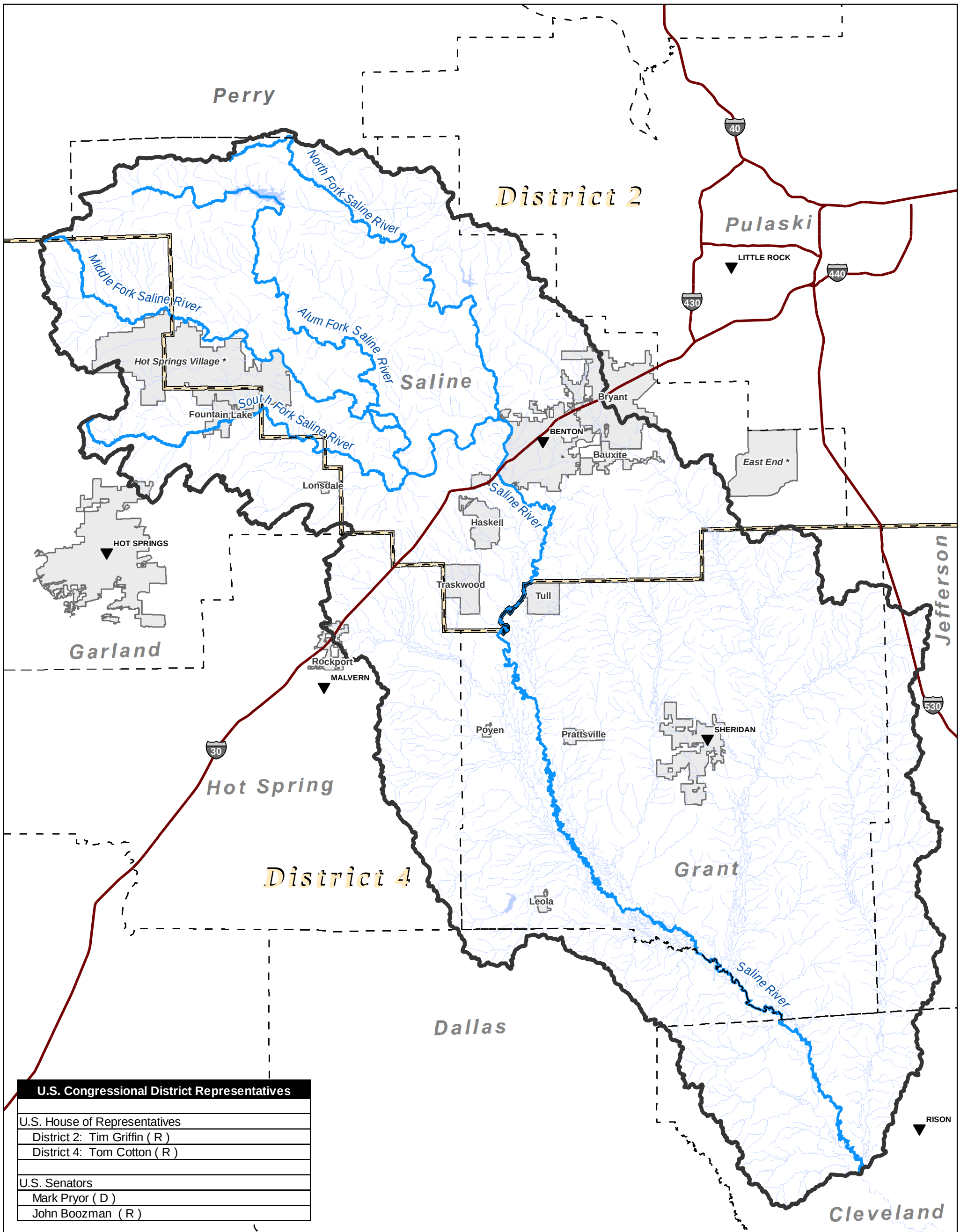
U.S. Representative:	Tom Cotton (District 4) **Term Expiration Date:** 2014	
Contact Information:	**Washington DC Office:** 415 Cannon House Office Building Washington, DC 20515 202-225-3772 Email or email contact form: https://cotton.house.gov/contact/email-me Website: http://cotton.house.gov/	**Local Offices:** Johnson County Courthouse 215 W Main Street, Rm 300 Clarksville, AR 72830 479-754-2120 Union County Courthouse 101 N. Washington St, Suite 406 El Dorado, AR 71730 870-881-0681 Hot Springs Federal Building 101 Reserve St., Suite 307 Hot Springs, AR 71901 501-520-5892 George Howard Jr. Federal Building 100 E 8th Ave, Room 2521 Pine Bluff, AR 71601 870-536-3376
FEMA History of Engagement:	None known	

Arkansas House of Representatives (in order by District Number)

District	Name	Address	Phone	Email
8	Jeff Wardlaw	801 East Church Street Warren, AR 71671	(870) 226-9501	jeff@jeffwardlaw.com
10	Mike Holcomb	9108 Sulphur Springs Road Pine Bluff, AR 71603	(870) 879-6135	mike.holcomb@arkansashouse.org
15	Ken Bragg	63 Pinecrest Circle Sheridan, AR 72150	(870) 942-5269	kenbragg@windstream.net
16	James L. Word	6503 Little Dove Drive Pine Bluff, AR 71603	(870) 543-6391	jword@aaasea.org
21	Terry Rice	P.O. Box 2195 Waldron, AR 72958	(479) 637-3100	terry.rice@arkansashouse.org
22	Bruce Westerman	P.O. Box 1399 Hot Springs, AR 71902	(501) 321-2276	bwforarkansas@hughes.net
23	Ann Clemmer	7415 Camille Drive Benton, AR 72019	(501) 316-0364	avclemmer@sbcglobal.net
25	John T. Vines	123 Market Street Hot Springs, AR 71901	(501) 624-1252	jtvines13@sbcglobal.net
26	David Kizzia	124 West 2nd Street Malvern, AR 72104	(501) 337-9959	david.kizzia@arkansashouse.org
27	Andy Mayberry	3022 E Woodson Lateral Road, Hansley, AR 72065	(501) 888-3522	andymayberry@windstream.net
28	Kim Hammer	1411 Edgehill Benton, AR 72015	(501) 840-3841	kimdhammer@yahoo.com
31	Andy Davis	P.O. Box 30248 Little Rock, AR 72260	(501) 837-5109	andy.davis@arkansashouse.org
73	John Catlett	11732 West Highway 28 Rover, AR 72860	(479) 495-9662	John.Catlett@arkansashouse.org

Arkansas Senate (in order by District Number)

District	Name	Address	Phone	Email
12	Bruce Maloch	650 Columbia Road 258 Magnolia, AR 71753	(870) 235-7040	bruce.maloch@senate.ar.gov
13	Alan Clark	P.O. Box 211 Lonsdale, AR 72087	(501) 262-3360	alan.clark@senate.ar.gov
14	Bill Sample	2340 North Highway 7 Hot Springs, AR 71909	(501) 321-0040	bill.sample@senate.ar.gov
15	David J. Sanders	Room 320 State Capitol Little Rock, AR 72201	(501) 682-6107	davidjamessanders@gmail.com
25	Stephanie Flowers	104 Main Street Pine Bluff, AR 71601	(870) 535-1032	stephanie.flowers@senate.ar.gov
27	Bobby J. Pierce	587 Grant 758 Sheridan, AR 72150	(870) 942-1031	bobby.pierce@senate.ar.gov
33	Jeremy Hutchinson	201 East North Street Benton, AR 72015	(501) 773-3760	jeremy.hutchinson@senate.ar.gov



U.S. Congressional District Representatives
U.S. House of Representatives
District 2: Tim Griffin (R)
District 4: Tom Cotton (R)
U.S. Senators
Mark Pryor (D)
John Boozman (R)

U.S. CONGRESSIONAL MAP

UPPER SALINE RIVER WATERSHED (HUC 08040203)

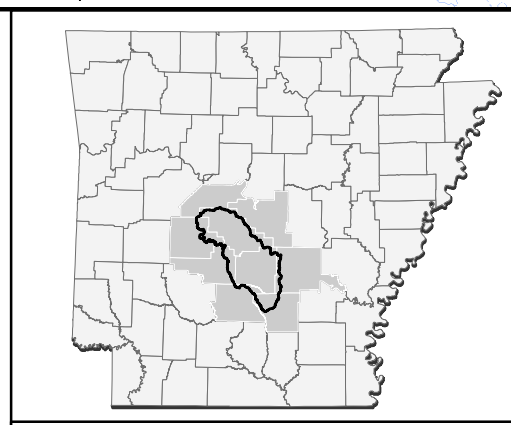
FEMA

N W E S

0 5 10 Miles

- County Seat
- Interstate
- Saline River and Major Reaches
- Other Waters
- Upper Saline River HUC 8
- Congressional District Boundaries
- City Limits
- County Boundaries

* Unincorporated Communities



Project Location

FIGURE 2

DATE: 3/6/2013

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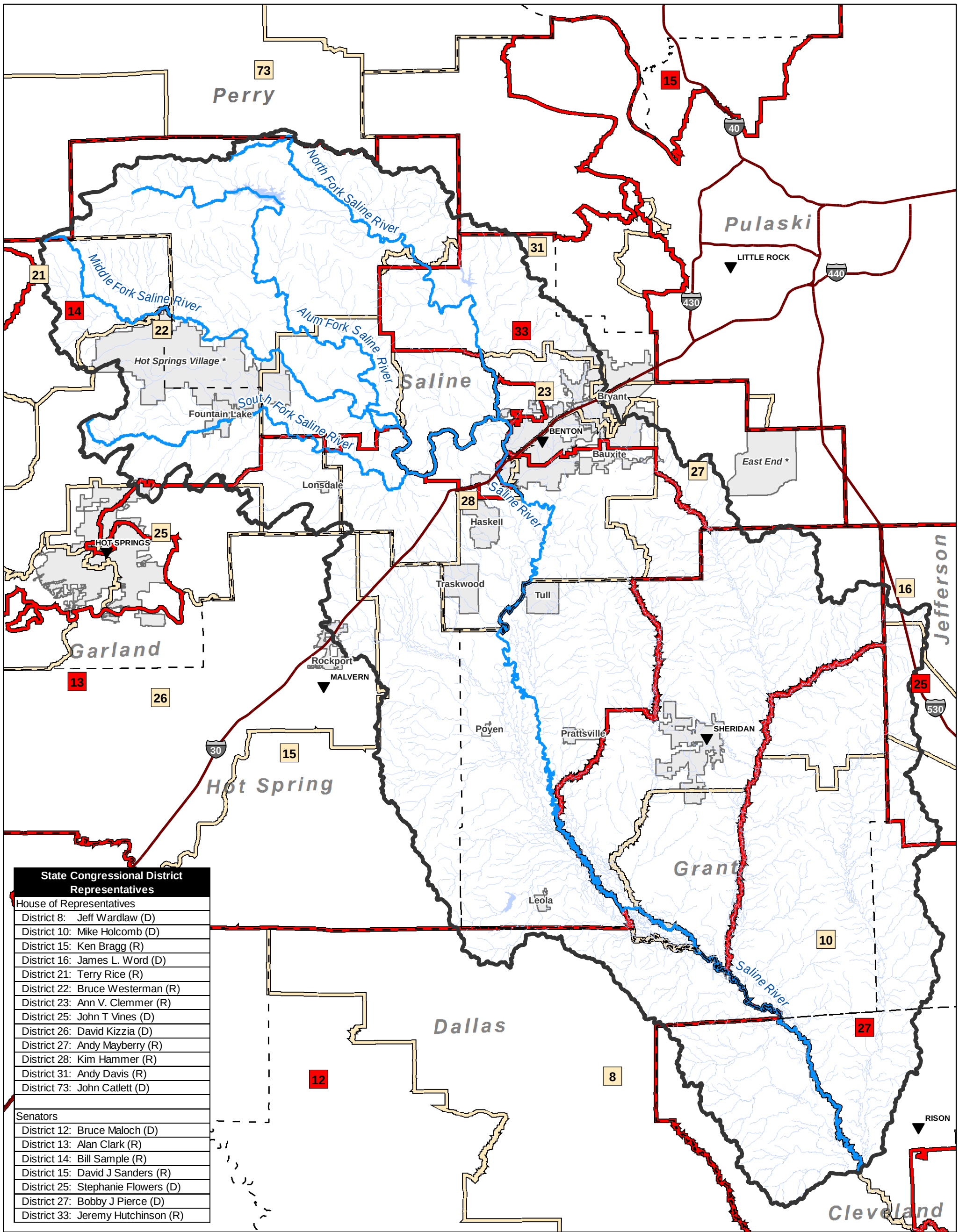


State Congressional District Representatives
House of Representatives
District 8: Jeff Wardlaw (D)
District 10: Mike Holcomb (D)
District 15: Ken Bragg (R)
District 16: James L. Word (D)
District 21: Terry Rice (R)
District 22: Bruce Westerman (R)
District 23: Ann V. Clemmer (R)
District 25: John T Vines (D)
District 26: David Kizzia (D)
District 27: Andy Mayberry (R)
District 28: Kim Hammer (R)
District 31: Andy Davis (R)
District 73: John Catlett (D)
Senators
District 12: Bruce Maloch (D)
District 13: Alan Clark (R)
District 14: Bill Sample (R)
District 15: David J Sanders (R)
District 25: Stephanie Flowers (D)
District 27: Bobby J Pierce (D)
District 33: Jeremy Hutchinson (R)

STATE CONGRESSIONAL MAP

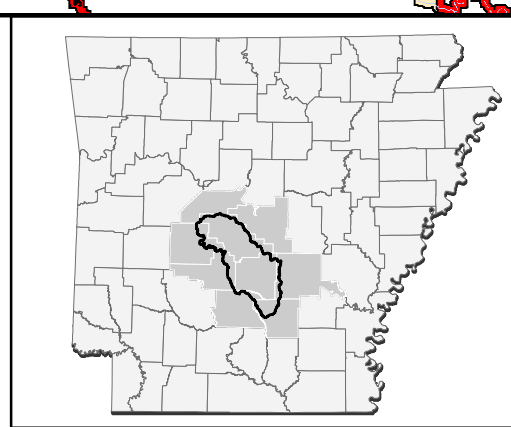
UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

0 5 10 Miles

- County Seat
- Interstate
- Saline River and Major Reaches
- Other Waters
- City Limits
- County Boundaries
- State House District Boundaries
- State Senate District Boundaries
- Upper Saline River HUC 8



Project Location

* Unincorporated Communities

FIGURE 3

DATE: 3/6/2013

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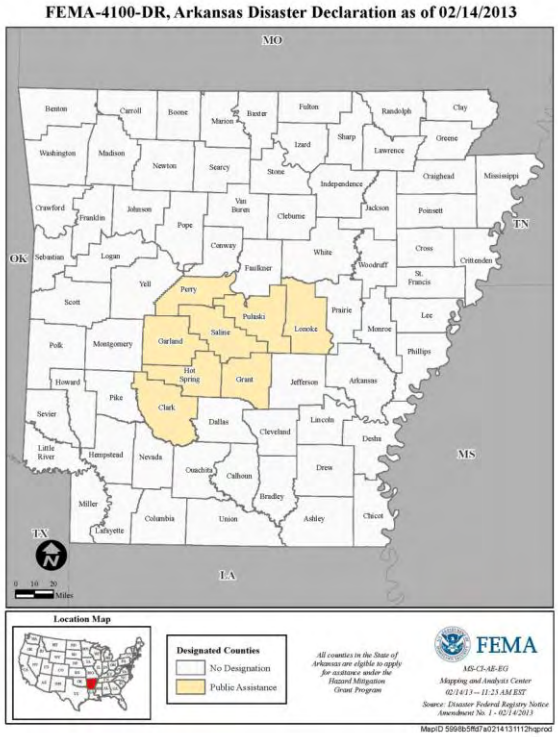
Recent News Articles

The most recent newsworthy hazard in the Upper Saline Watershed was the disaster declaration for a severe winter storm / ice storm that occurred in central Arkansas during the 2012 Christmas holiday. The most recent newsworthy flooding event in central Arkansas was in November 2011.

Arkansas Severe Winter Storm: Tuesday, December 25, 2012 to Wednesday, December 26, 2012
Major Disaster Declaration declared on Tuesday, January 29, 2013



FOX16.com \ Published: 11/21/2011
LITTLE ROCK, AR - A cluster of thunderstorms overnight dropped 3 to over 5 inches of rain across the Little Rock metro area leading to flash floods, road closures and even water rescues.

Pre-Discovery Data Gathering

In preparation for the Discovery meeting, the CTP Project Team gathered information about local flood risk and flood hazards in the Upper Saline Watershed. The information collected was used to develop maps and figures that might assist in highlighting areas of the watershed that seem to demonstrate a need for a Risk MAP project, risk assessment, and/or mitigation project.

The information gathered was compiled into figures that area discussed in the following sections:

- Grant Activity in the Watershed,
- Urban Cover and Urban Change in the Watershed,
- Coordinated Needs Management Strategy (CNMS) database,
- Population Density, and
- Parcels Potentially at Risk in the Watershed.

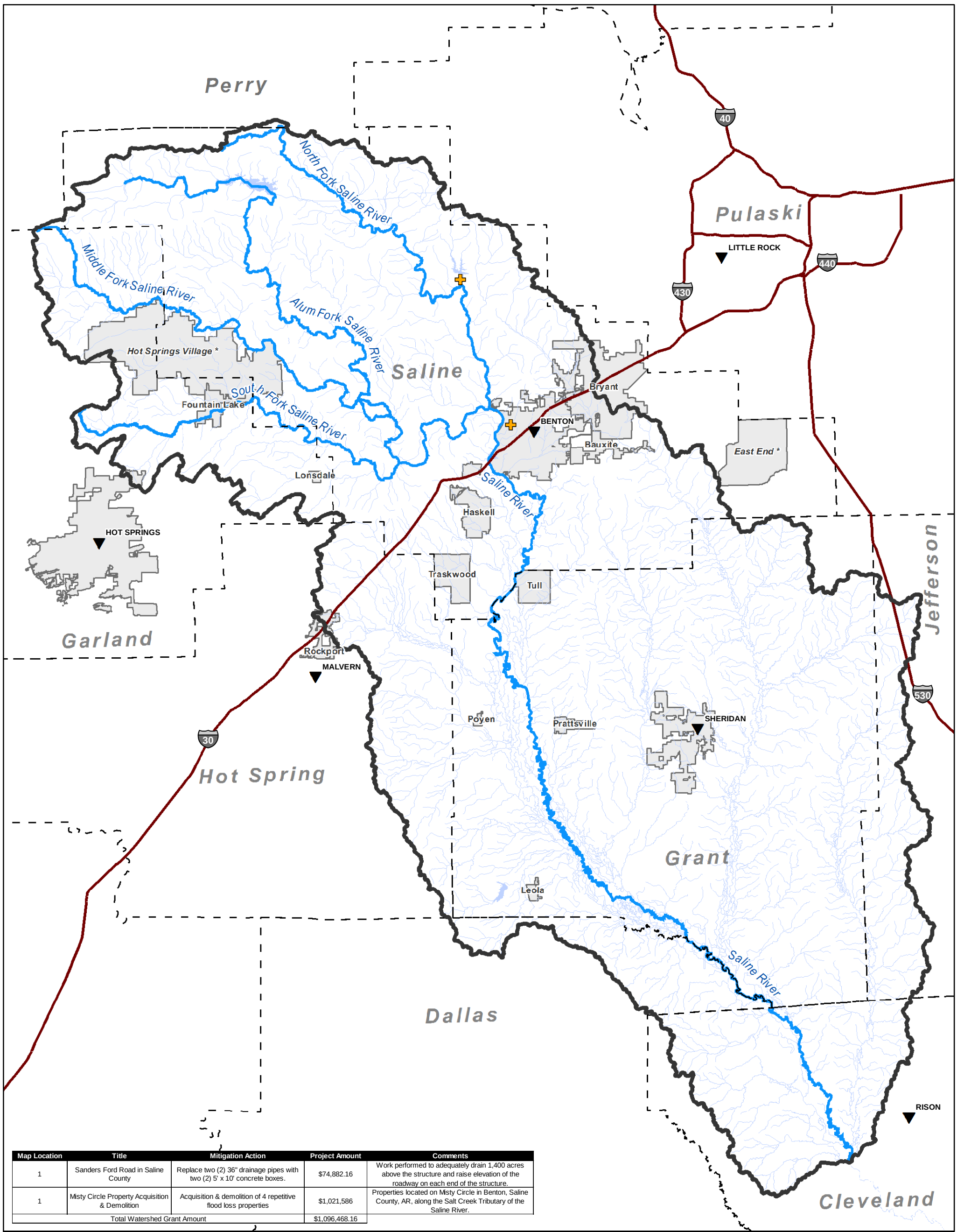
Watershed Selection

The Upper Saline Watershed is located in Central Arkansas and includes nearly the entire counties of Grant and Saline, along with smaller portions of Cleveland, Dallas, Garland, Hot Spring, Jefferson, Perry, and Pulaski. The population centers in the watershed include the Cities of Benton and Bryant, considered part of the Little Rock metropolitan area, the City of Sheridan, located south of Little Rock, and Hot Springs Village, a large Property Owner Association (POA) governed gated unincorporated community made up largely of retired persons. Most of the smaller communities located in the watershed could be considered bedroom communities of the Little Rock Metropolitan area, or rural farming communities.

The Upper Saline Watershed was selected for a Risk MAP project starting with the Discovery process for several reasons, including population, risk, and topographic data availability. Once the selection was made the process of existing data evaluations was initiated. Much of the evaluation of data was done by further dividing the Upper Saline HUC 8 Watershed into the smaller units referred to as HUC 12 sub-basins to highlight areas of potential risk and mitigation opportunities.

The Saline River and its larger tributaries dominate the watershed. There are several creeks that pass through the more developed areas of the watershed that contribute to the flooding, including but not limited to Hurricane Creek, Clear Creek, Haw Creek, and Dry Creek. In addition, there are several lakes, including Lakes Balboa and DeSoto in Hot Springs Village, that are not reflected on the current effective FIRMs.

A review of mitigation grant activity within a watershed can be used as a tool to recognize an area where risk has been identified and is being corrected and/or removed through a mitigation action. In the Upper Saline Watershed there are currently two separate mitigation grant activities underway, both in Saline County. These grants are being administered through the Arkansas Department of Emergency Mangement (ADEM) and are shown on Figure 4, Grant Activity.



Map Location	Title	Mitigation Action	Project Amount	Comments
1	Sanders Ford Road in Saline County	Replace two (2) 36" drainage pipes with two (2) 5' x 10' concrete boxes.	$74,882.16	Work performed to adequately drain 1,400 acres above the structure and raise elevation of the roadway on each end of the structure.
1	Misty Circle Property Acquisition & Demolition	Acquisition & demolition of 4 repetitive flood loss properties	$1,021,586	Properties located on Misty Circle in Benton, Saline County, AR, along the Salt Creek Tributary of the Saline River.
Total Watershed Grant Amount			$1,096,468.16	

GRANT ACTIVITY

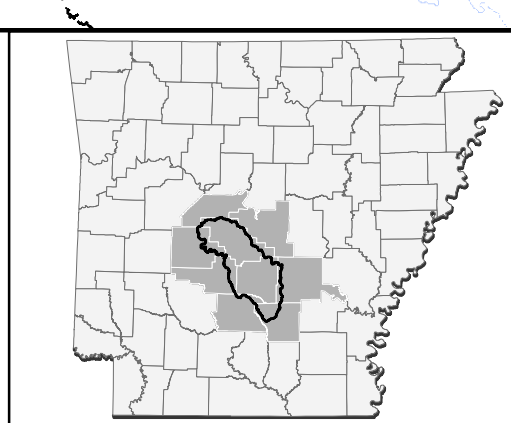
UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

0 5 10 Miles

Grant Location
County Seat
Interstate
Saline River and Major Reaches
Other Waters
City Limits
Upper Saline River HUC 8
County Boundaries



Project Location

* Unincorporated Communities

FIGURE 4

DATE: 3/6/2013

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The Coordinated Needs Management Strategy (CNMS) Inventory provides a snapshot of the status of currently studied streams existing within FEMA's floodplain study inventory. The CNMS Validation Status is applied to each stream or stream segment using one of four categories, unverified, assessed, valid, or unknown. A discussion of the definition of each category is provided in subsequent section. The stream mileage shown in CNMS reflects streams that currently have effective SFHA's designated for them, or there is a documented request by the community to add it. The CNMS Validation Status has been applied to several figures prepared to review the status of streams in combination with other data gathered for assessing the potential areas of risk within the Upper Saline Watershed.

The population density within the Upper Saline Watershed was prepared and is presented on Figure 5. The HUC 12 sub-basin unit was used to reflect population density throughout the watershed. As expected the highest density populations are centered around the interstate, the Cities of Benton and Bryant, the City of Sheridan, and the community of Hot Springs Village.

Land use within the Upper Saline Watershed was collected, reviewed and expressed as urban coverage. The percentage of urban coverage and the change in urban coverage from 2001 – 2006 within each HUC 12 sub-basin within the Upper Saline Watershed is presented on Figures 6 and 7. The urban coverages are useful in demonstrating what areas within the watershed are experiencing growth, where changes in hydrology might be expected, and where the most population could be at risk.

In addition to urban cover, the land area included within the limits of an incorporated community versus the unincorporated areas of the counties provides the amount of potential land available for development or expansion. The extreme northern portion of the Upper Saline Watershed includes the Ouachita National Forest and the Winona Wildlife Management Area. The remaining land area in the watershed can be considered developable due to its proximity to the large Little Rock metropolitan area and well as the benefits of being close to National Forest Land and many lakes and streams that allow an abundance of outdoor opportunities. Table 8 summarizes the land area within the watershed that is incorporated and unincorporated.

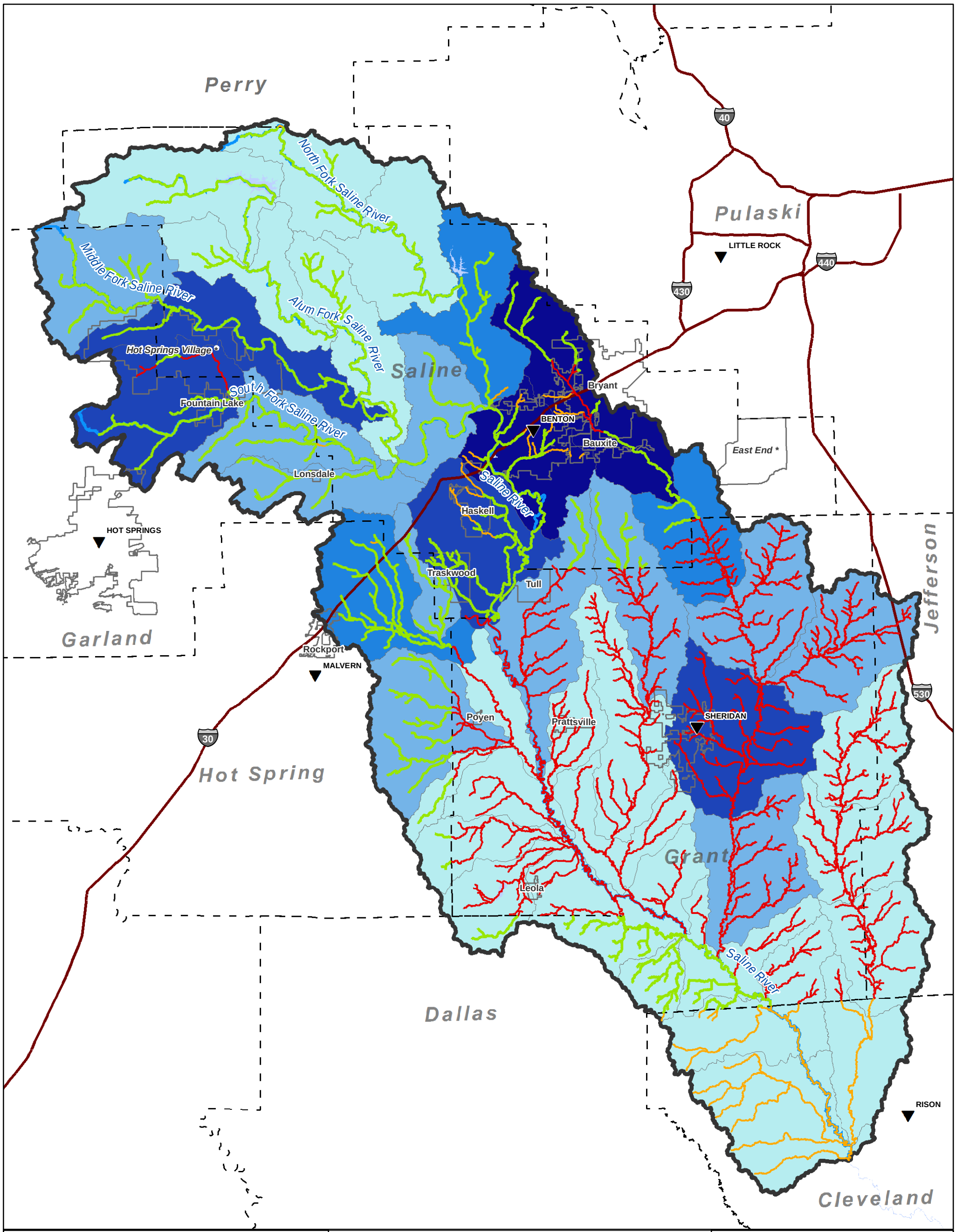
Table 8: Land Area in the Watershed

Land Use	Approximate Square Miles Within the Watershed
Incorporated Communities	111 [1]
Unincorporated Counties	1,604 [2]
Total Land Area in the Upper Saline Watershed	**1,715**

[1] includes area information for unincorporated areas of Hot Springs Village and East End
[2] includes approximately 75 square miles of National Forest / Wildlife Management Area

In the Upper Saline Watershed, out of the total 1,715 square miles, it is assumed that 111 square miles are fully developed and 1,529 square miles are available to be developed due to limited development / population currently in place.

The USGS provides a National Hydrologic Dataset (NHD) can be used to identify stream miles that reflect drainage areas of 1-square mile from available topographic data. The NHD stream mileage may be used to gain a sense of the total potential stream miles for a watershed. Using the NHD there are approximately 4,967 miles of streams in the Upper Saline Watershed.



POPULATION DENSITY (2010)

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

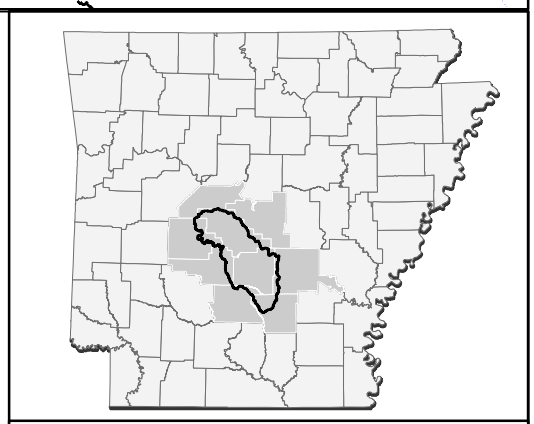
N W E S

0 5 10 Miles

County Seat
Interstate
Saline River and Major Reaches
Upper Saline River HUC 8
City Limits
County Boundaries

Population Density - 2010 Census
34 - 1,550
1,551 - 3,132
3,133 - 5,697
5,698 - 11,429
11,430 - 30,039

CNMS Validation Status
Unverified
Assessed
Valid



Project Location

* Unincorporated Communities

FIGURE 5

DATE: 3/25/2013

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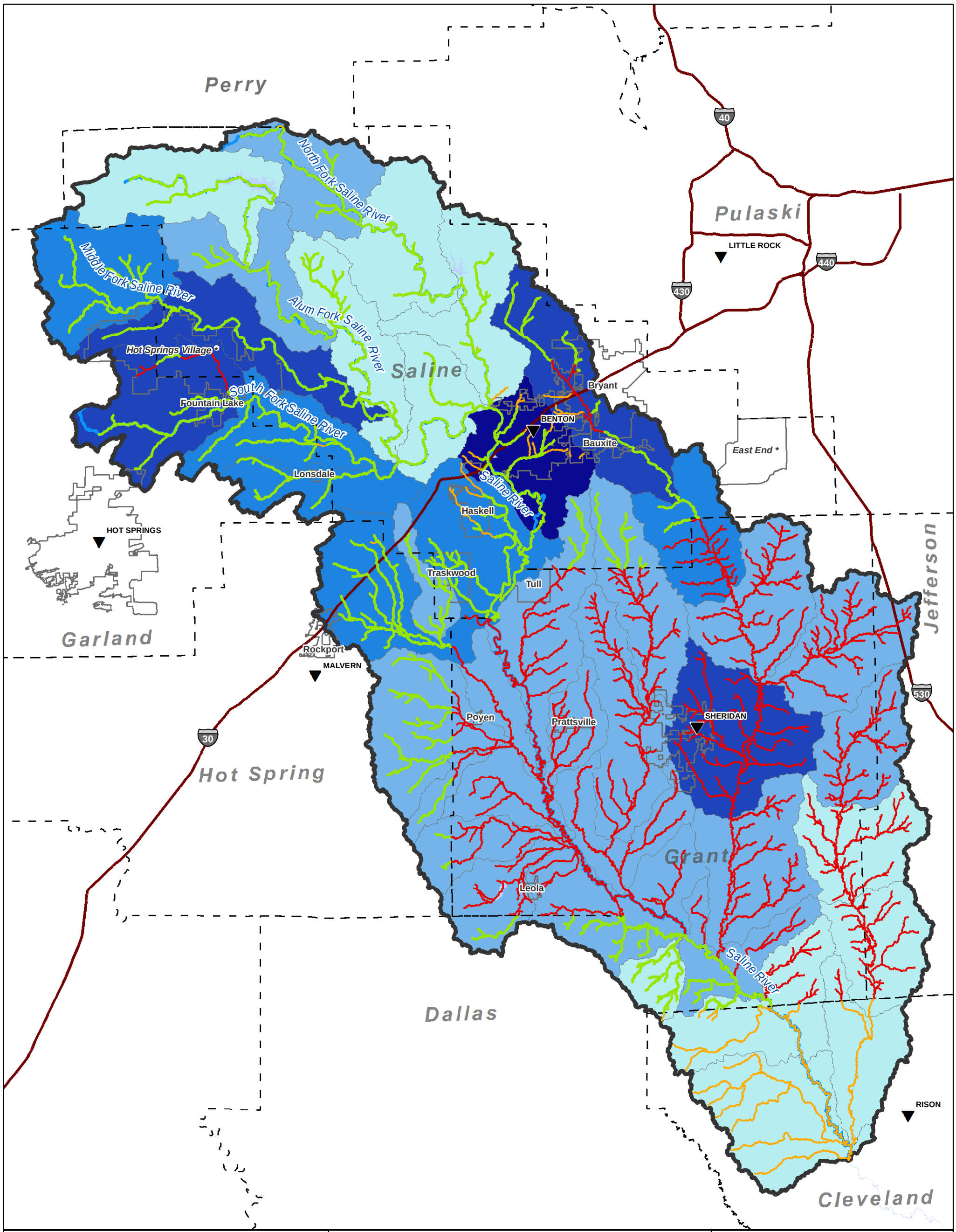


PERCENT URBAN COVER (2006)

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

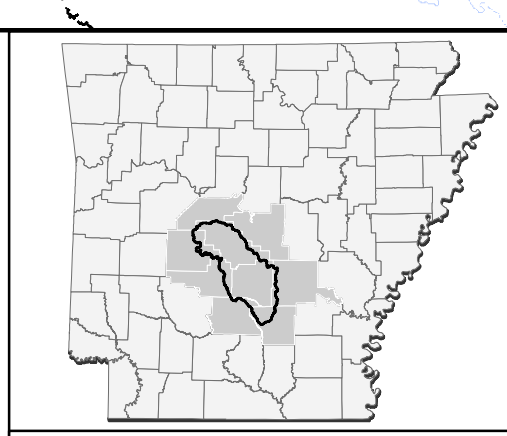
0 5 10 Miles

County Seat
Interstate
Saline River and Major Reaches
Upper Saline River HUC 8
City Limits
County Boundaries

Current Percent Urban Cover (2006)
2.3% - 3.8%
3.9% - 5.2%
5.3% - 7.6%
7.7% - 17%
17.1% - 29.8%

CNMS Validation Status
Unverified
Assessed
Valid

* Unincorporated Communities



Project Location

FIGURE 6

DATE: 3/25/2013

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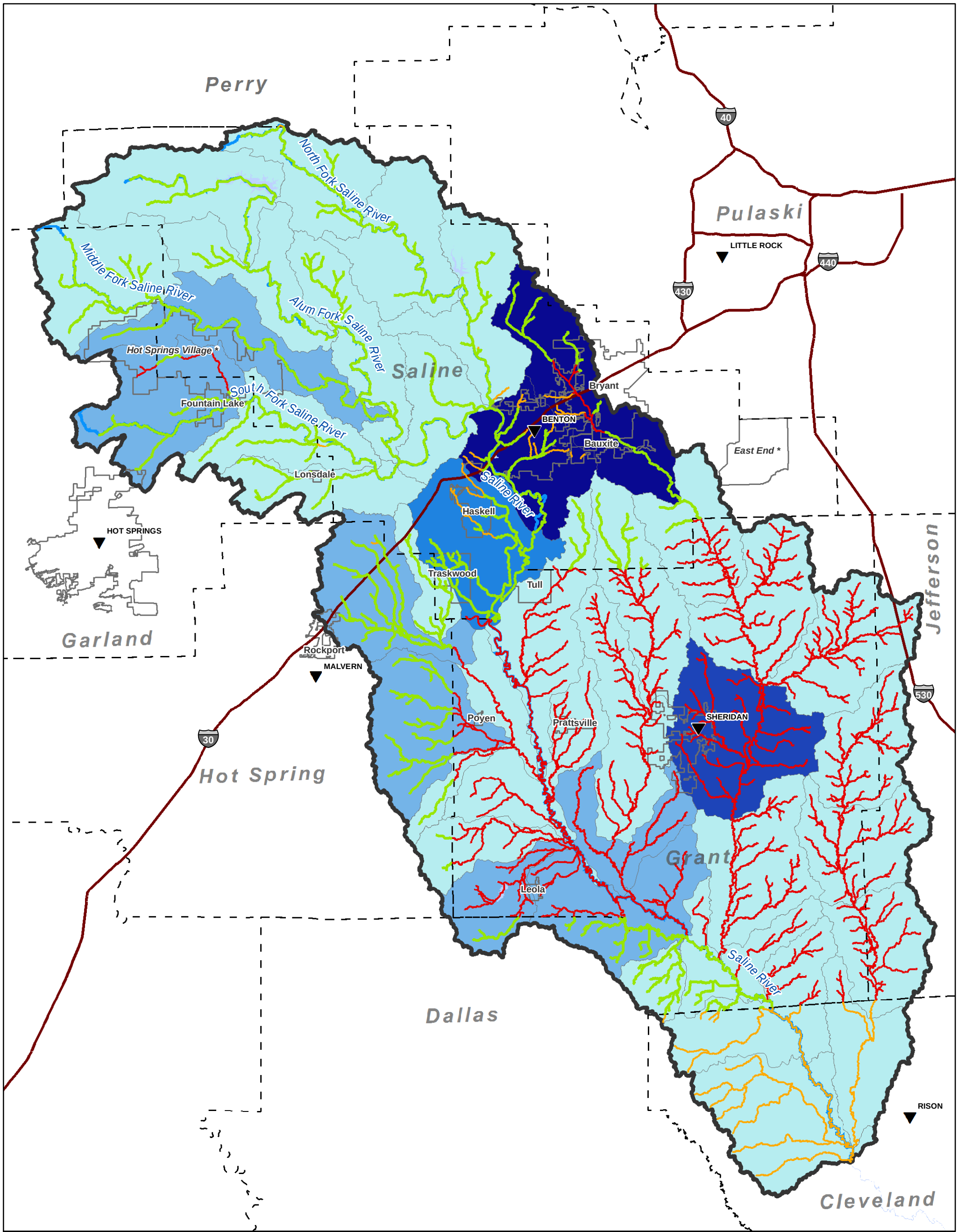

URBAN CHANGES (2001 - 2006)

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

0 5 10 Miles

County Seat
Interstate
Saline River and Major Reaches
Upper Saline River HUC 8
City Limits
County Boundaries

Urban Change (2001 - 2006)
Least
Most

CNMS Validation Status
Unverified
Assessed
Valid

* Unincorporated Communities

Project Location

FIGURE 7

DATE: 3/25/2013

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The CNMS inventory of streams provides a snapshot of the currently studied streams, and streams being requested for study, existing within FEMA's floodplain study inventory. CNMS does not reflect the total potential of stream miles to be studied within a watershed.

Table 9 compares the NHD stream miles to the CNMS stream miles to show the stream mileage within the Upper Saline Watershed that is not reflected in FEMA's inventory and could be a potential flood risk.

Table 9: Stream Miles Within the Watershed

Source	Stream Miles
NHD Streams (High Resolution dataset)	4,967
CNMS Streams (streams with effective SFHA or SFHA mapping requested)	1,710
Stream Miles not accounted for in CNMS	3,257

In addition to listing the miles of studied stream within a watershed, CNMS documents certain physiological, climatological, or engineering methodological factors that may have changed since the date of the effective study. The stream miles shown in CNMS are attributed with an evaluation of a Validation Status and Status Type that allows an examination of the condition of a given study or group of studies. Studies which are considered Valid in CNMS are the only studies which contribute to the New Validated or Updated Engineering (NVUE) metric used by FEMA to report and track Risk MAP program success. Figures 6 and 7, Percent Urban Cover and Urban Change, can be used to show the areas of relatively higher urban coverage within the watershed and whether or not the CNMS stream network is considered NVUE compliant.

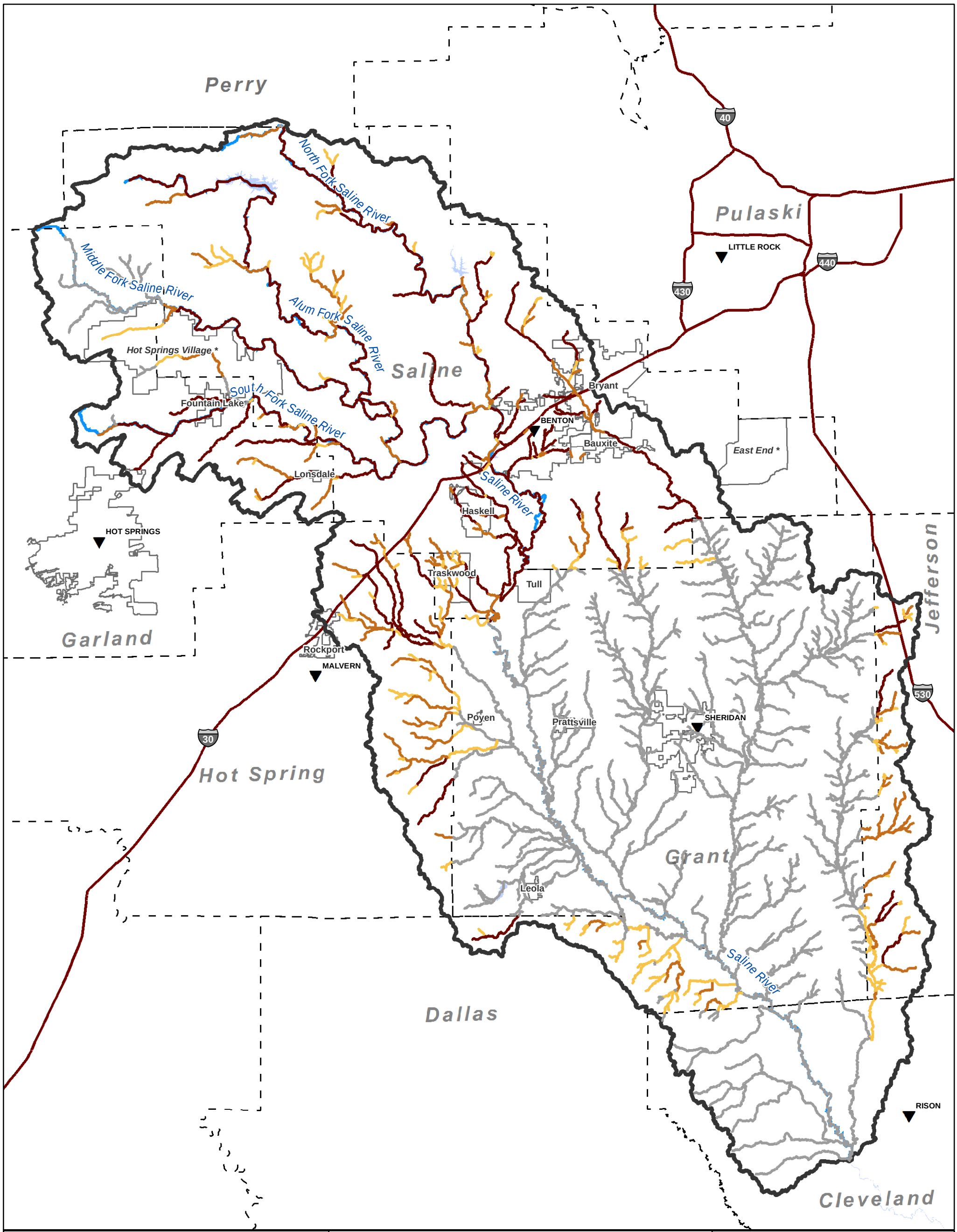
The NVUE metric is used as an indicator of the status of studies for FEMA's mapped SFHA Inventory. Those studies which are categorized as 'unverified', typically indicate that there are some factors of change since the SFHA became effective or may have a deficiency warranting restudy. CNMS stream mileage categorized as 'Requires Assessment' requires further input to determine their validity – often because they represent paper inventory or non-modernized studies. CNMS aids in identifying areas to consider for study during the Discovery process by highlighting needs on a map, quantifying them (mileage), and providing further categorization of these needs in order to differentiate factors that identify the needs.

Within the Upper Saline watershed, and using these criteria from CNMS, approximately 977.0 miles of Zone A and 13.3 miles of Zone AE areas were identified as being Unverified and as such are candidates for updated analysis. Additionally, approximately 524.1 miles of Zone A and approximately 70.3 miles of Zone AE in the watershed were characterized as being Valid and included in the NVUE metrics. The designation of Zone A areas as Unverified is due to the absence of hydraulic model data or other analysis known to support the mapping. Table 10 provides a summary of the NVUE stream miles in the Upper Saline Watershed.

Table 10: NVUE Stream Mileage in the Watershed

NVUE Validation	Stream Miles
CNMS Valid Zone AE / AH	70.3
CNMS Valid Zone A	524.1
CNMS Unverified Zone AE / AH (Hurricane Creek, Little Hurricane Creek, Cedar Creek / Lake Balboa)	13.3
CNMS Unverified Zone A	977.5
CNMS Zone AE / AH Requiring Further Assessment or in the process of being studied	0.00
CNMS Zone A Requiring Further Assessment	0.00
All Stream Miles not accounted for in CNMS as there are no effective SFHAs (sum of the below)	124.9
Stream Miles not accounted for in CNMS that would fall in land that *could be* developed	124.9
Stream Miles not accounted for in CNMS that would fall in land that *could not be* developed	0.0

Local parcel data was obtained where available within the Upper Saline Watershed and evaluated along with the CNMS stream inventory. The number of parcels (density) located along a given stream segment was used to develop a rank from low to high to reflect stream segments and the relative parcel density associated with that could be considered potentially at risk. More specifically, the coverage for this data set includes polygons approximately one river mile in length derived from the extent of and areas surrounding existing SFHAs where digital FIRMs exist, and using a set width buffer around stream reaches where SFHAs do not currently exist. Each of these polygons holds data which can be used to help estimate risk exposure – values such as parcel count, minimum parcel value, maximum parcel value, and average parcel value within the polygon. This data is presented as an aggregate for these areas, rather than at a single parcel resolution. Taking this information into account can aid in the process of identifying unmapped streams adjacent to areas having a high level of risk exposure, or mapped streams with high levels of risk exposure just beyond existing SFHA bounds. For the Upper Saline Watershed, this supplemental information was available for all of the area with the exception of Grant County, and is included graphically on Figure 8, showing areas of relative high, medium, and low risk exposure as parcel density. The level of exposure can also be implied as a dollar risk exposure as well.



DENSITY OF PARCELS POTENTIALLY AT RISK

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

0 5 10 Miles

County Seat
Interstate
Saline River and Major Reaches
City Limits
Upper Saline River HUC 8
County Boundaries

Parcel Density
NoData
Low
Medium
High

* Unincorporated Communities

Project Location

FIGURE 8

DATE: 3/25/2013

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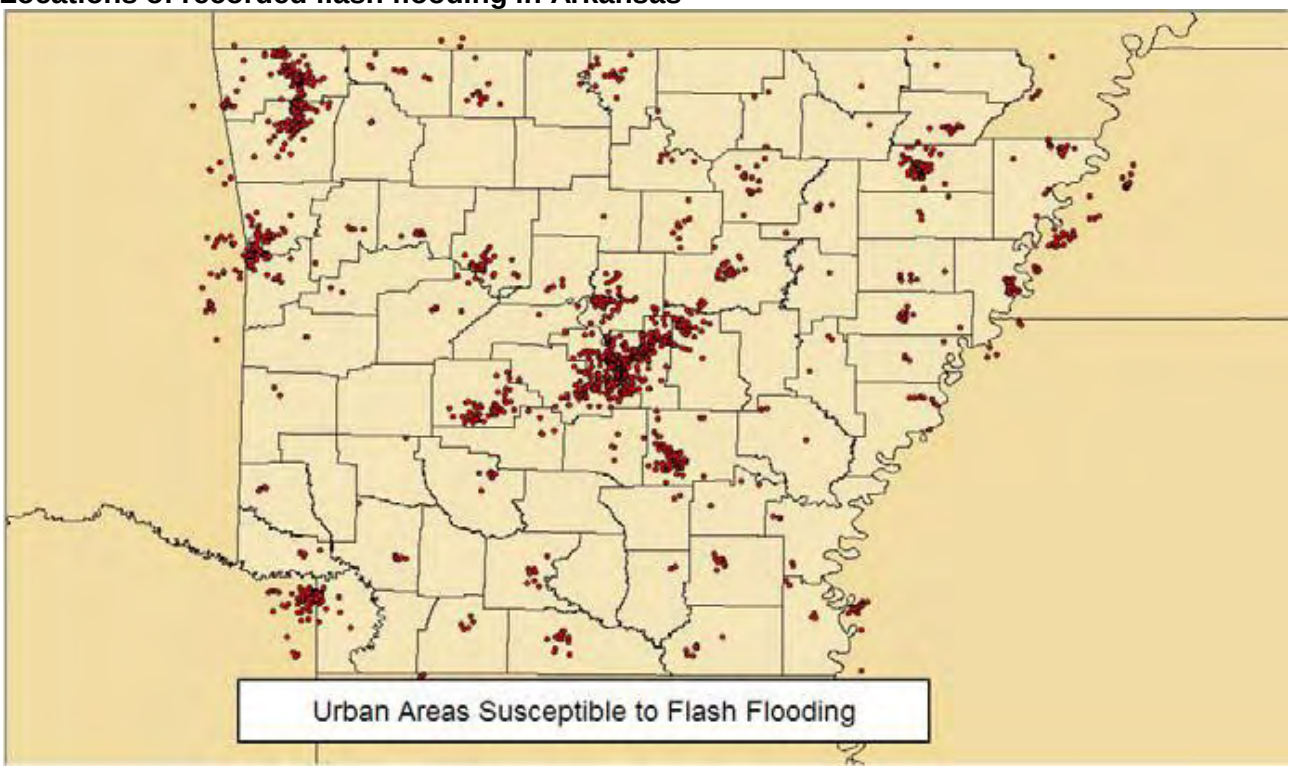
The Upper Saline Watershed has had a history of flooding as demonstrated by numerous presidential disaster declarations issued in past years and summarized in Table 11 below.

Table 11: Disaster Declarations in the Watershed (1965 – January 2013)

County within Upper Saline Watershed	Number of Disaster Declarations per Hazard					
	Flood	Hurricane	Ice Storm	Snow Storm	Tornado	Severe Storm
Cleveland County	3	1	1	1	--	5
Dallas County	3	1	1	--	--	5
Garland County	3	1	1	--	1	4
Grant County	1	1	1	--	1	6
Hot Spring County	1	1	1	--	1	7
Jefferson County	5	--	1	--	--	6
Saline County	2	1	1	--	1	8

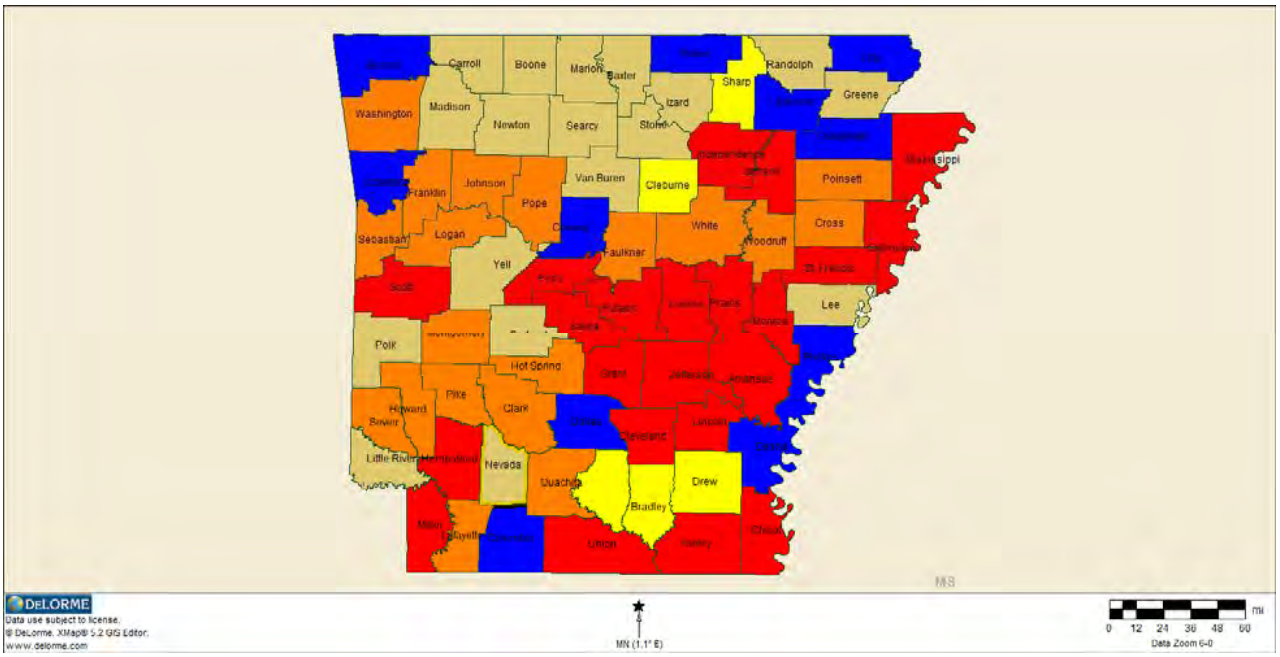
The 2010 State of Arkansas All Hazard Mitigation Plan includes snapshots of recorded flash flooding in Arkansas and the flood hazard risk rating provided by the county in their local hazard mitigation plan and provided below.

Locations of recorded flash flooding in Arkansas



Source: Geostor / 2010 State of AR All Hazard Mitigation Plan

Local mitigation plan risk rating by county for flood hazards



Red = High Flood Hazard Score
Orange = Medium-high Flood Hazard Score
Yellow = Medium Flood Hazard Score
Green/brown = Low Flood Hazard Score
Blue = No Flood Hazard Score or listing

SOURCE: Bold Planning Solutions
2010 State of AR All Hazard Mitigation Plan

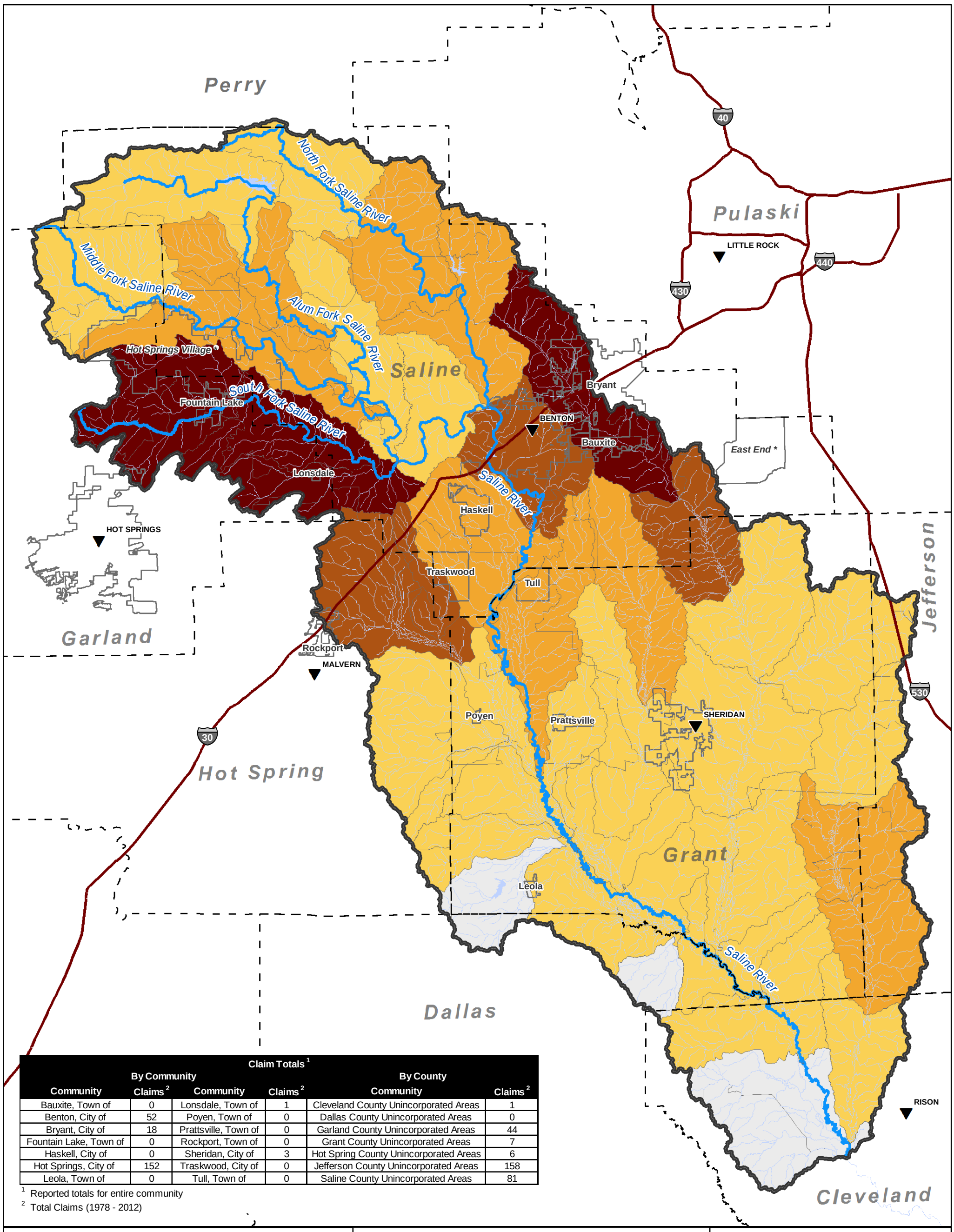
The total number of NFIP insurance claims for the communities that are located at least in part in the Upper Saline Watershed are provided on Figure 9. Due to the limitations on the physical locations of the claims data, the graphical data was developed using claims located by zip code and then displayed by intersecting the zip code boundary with the HUC 12 sub-basins boundary. The total number of claims are then displayed by HUC 12 boundaries. A summary table of total claims reported by community is included in Figure 9.

In addition to NFIP claims, there are several locations of Repetitive Loss or Severe Repetitive Loss within the Upper Saline Watershed. A concentration of these locations appears in the areas in and around the Cities of Benton, Bryant, and Sheridan as shown on Figure 10 and summarized in Table 12. In the City of Benton a properties acquisition and relocation grant project is underway in order to remove these properties and property owners from further risk of loss of life and/or property.

Table 12: Repetitive or Severe Repetitive Loss with the Watershed

Repetitive Loss/Severe Repetitive Loss by Community			
Community	**Number of Properties**	**Total Claims**	**Average Number of Claims Per Property**
Benton, City of	5 *	23	4.6
Bryant, City of	2	4	2.0
Sheridan, City of	1	2	2.0
Grant County Unincorporated Areas	1	2	2.0
Saline County Unincorporated Areas	3	10	3.3

* 4 properties involved in Acquisition Mitigation Activity



Claim Totals [1]					
By Community				By County	
Community	Claims [2]	Community	Claims [2]	Community	Claims [2]
Bauxite, Town of	0	Lonsdale, Town of	1	Cleveland County Unincorporated Areas	1
Benton, City of	52	Poyen, Town of	0	Dallas County Unincorporated Areas	0
Bryant, City of	18	Prattsville, Town of	0	Garland County Unincorporated Areas	44
Fountain Lake, Town of	0	Rockport, Town of	0	Grant County Unincorporated Areas	7
Haskell, City of	0	Sheridan, City of	3	Hot Spring County Unincorporated Areas	6
Hot Springs, City of	152	Traskwood, City of	0	Jefferson County Unincorporated Areas	158
Leola, Town of	0	Tull, Town of	0	Saline County Unincorporated Areas	81

[1] Reported totals for entire community
[2] Total Claims (1978 - 2012)

CLAIMS ACTIVITY

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

0 5 10 Miles

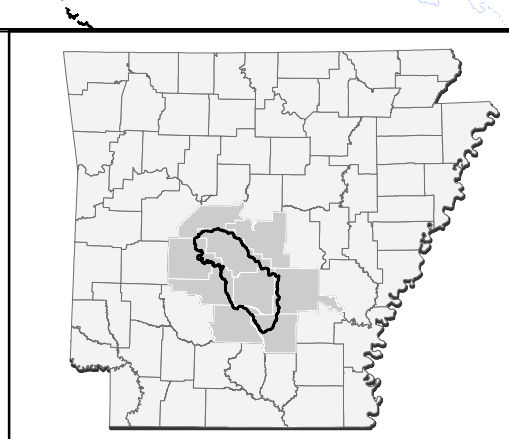
Amount of Claims

- No Claims
- Least (< 25)
- 26 - 75
- 76 - 150
- Most (> 150)

- County Seat
- Interstate
- Saline River and Major Reaches
- Other Waters

- City Limits
- County Boundaries
- Upper Saline River HUC 8

* Unincorporated Communities



Project Location

FIGURE 9

DATE: 3/6/2013

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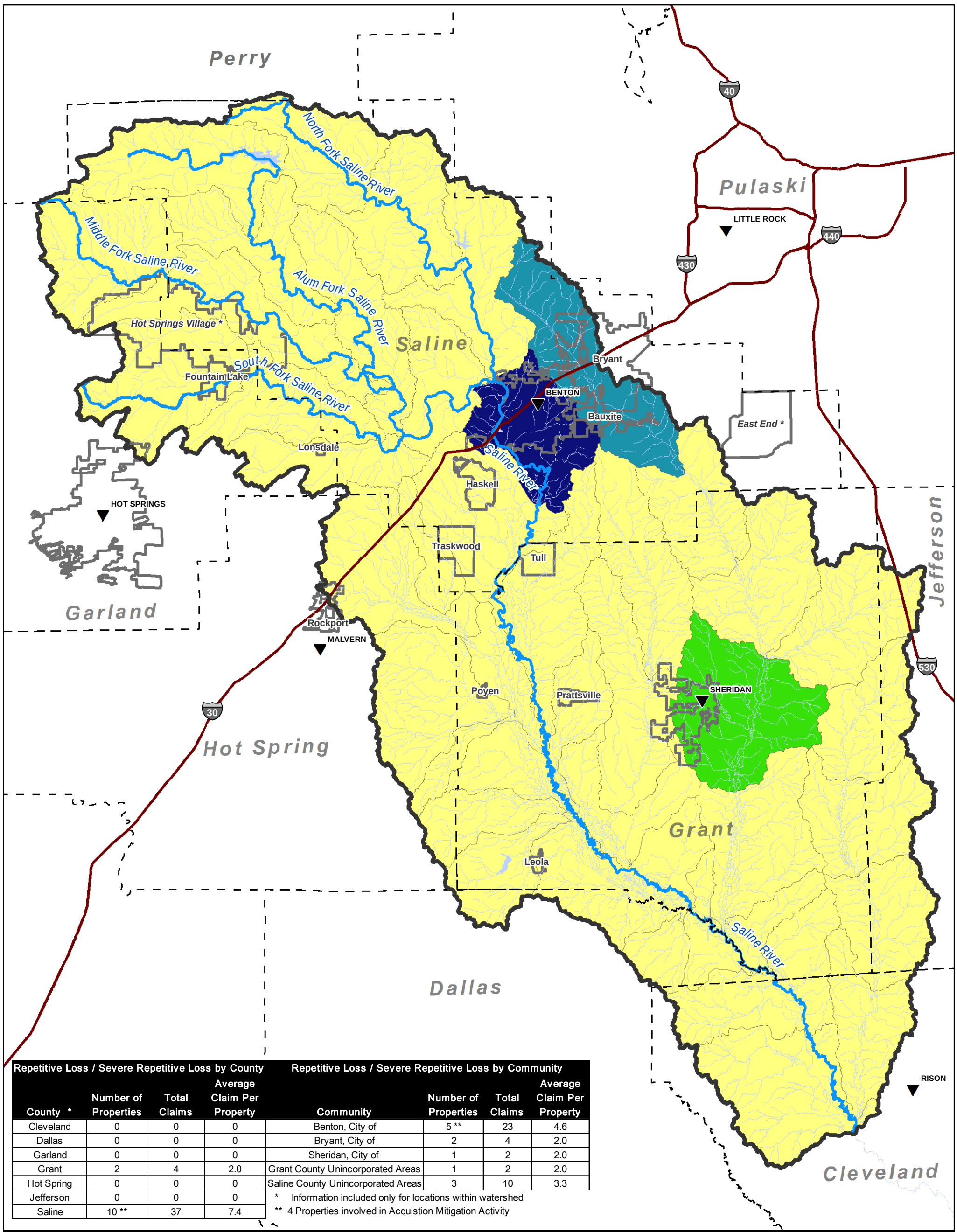


Repetitive Loss / Severe Repetitive Loss by County			
County *	Number of Properties	Total Claims	Average Claim Per Property
Cleveland	0	0	0
Dallas	0	0	0
Garland	0	0	0
Grant	2	4	2.0
Hot Spring	0	0	0
Jefferson	0	0	0
Saline	10 **	37	7.4

Repetitive Loss / Severe Repetitive Loss by Community			
Community	Number of Properties	Total Claims	Average Claim Per Property
Benton, City of	5 **	23	4.6
Bryant, City of	2	4	2.0
Sheridan, City of	1	2	2.0
Grant County Unincorporated Areas	1	2	2.0
Saline County Unincorporated Areas	3	10	3.3

* Information included only for locations within watershed

** 4 Properties involved in Acquistion Mitigation Activity

REPETITIVE LOSS (RL) AND SEVERE REPETITIVE LOSS (SRL) CLAIMS

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

N W E S

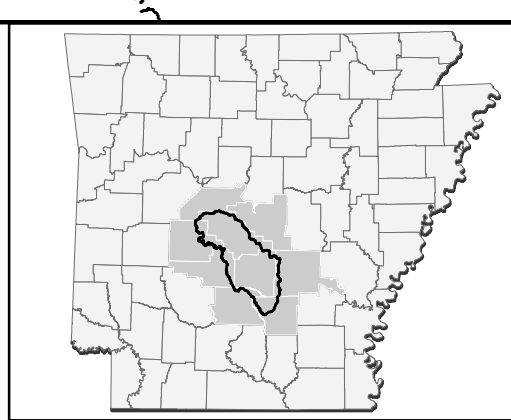
0 5 10 Miles

- County Seat
- Interstate
- Saline River and Major Reaches
- Other Waters
- City Limits
- County Boundaries
- Upper Saline River HUC 8

* Unincorporated Communities

Total RL/SRL Claims

- 0
- 1 - 2
- 3 - 4
- 5 - 10



Project Location

FIGURE 10

DATE: 3/6/2013

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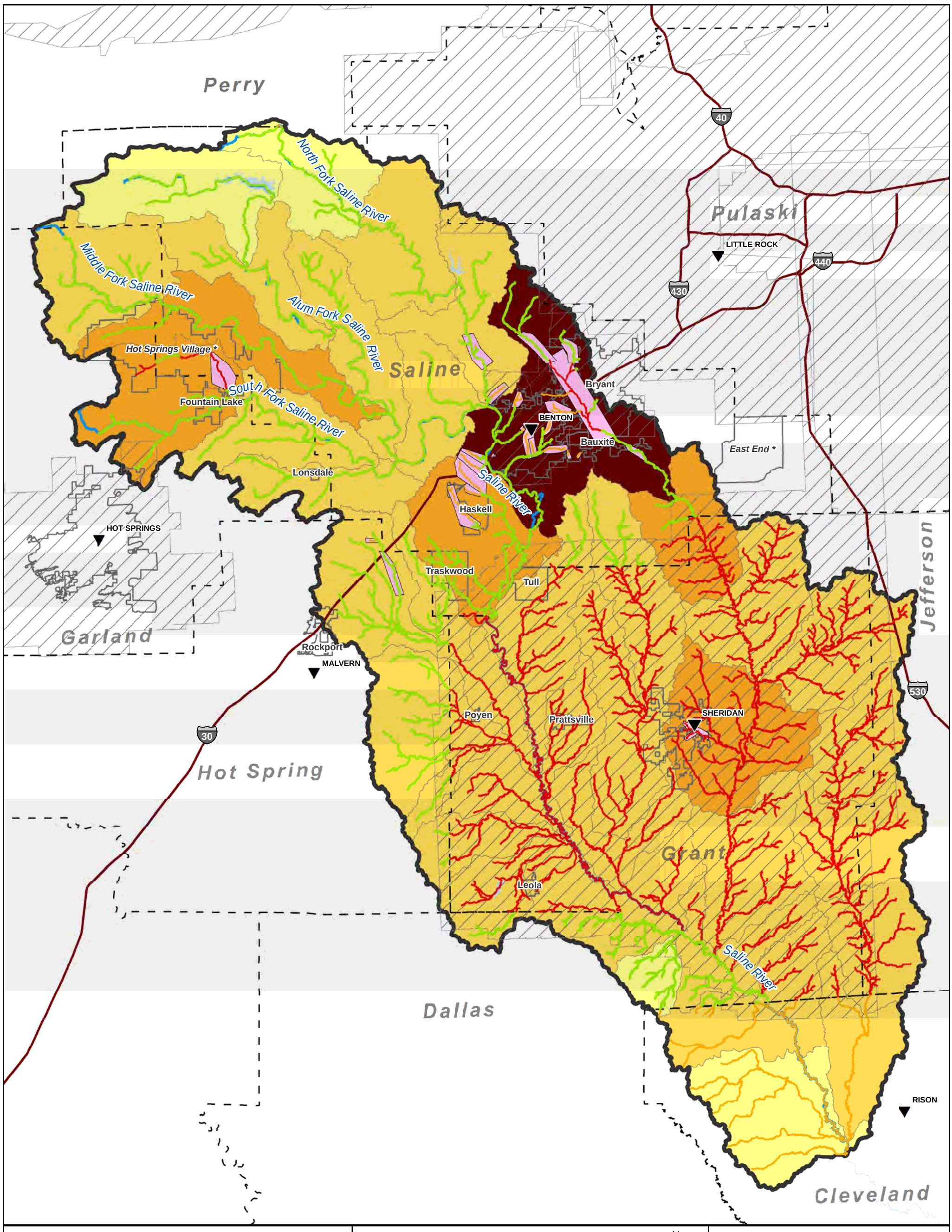
Recent acquisitions of LiDAR data for eventual processing into usable topographic data has been done in Grant County. Once this data is processed there will be topographic coverage for about 40 percent of the entire watershed. Areas that are noted to be lacking updated topographic information are Saline County and incorporated areas, with the exception of the Cities of Benton and Bryant, and the unincorporated areas of Garland, Hot Spring, Jefferson, and Cleveland Counties, including all of the other incorporated areas within the watershed.

For the Discovery process, watersheds are selected and analyzed at the HUC 8 level and evaluated using three major factors (or trifecta factors): population, topographic data availability and risk decile. The risk decile is calculated from nine parameters: total population density, historical population growth, predicted population growth, housing units, flood policies, single claims, repetitive losses, repetitive loss properties and declared disasters. The scale of Risk Decile ranking is 1-10 with 1 being the highest and 10 being the lowest ranking for a portion of the watershed. Table 13 lists the overall rankings of the Upper Saline Watershed when compared nationally to other HUC 8 watersheds. Figure 11 provides an overview of the Upper Saline Watershed showing the relative Density Risk Decile by HUC 12 sub-basin, the availability of topographic data, and study areas previously requested for consideration. This information can be used to assist in identifying the areas within the watershed where a risk evaluation can be targeted.

Table 13: Watershed Risk Factor Rankings

Upper Saline Watershed Selection Rankings			
National Risk Factor Rank:	N/A	Region 6 Risk Factor Rank:	200
National Risk Decile:	3	Region 6 Risk Decile:	3
Average Annualized Loss:	$13,144,000	Average Annualized Loss:	$13,144,000
National Average Annualized Loss Rank:	N/A	Region 6 Average Annualized Loss Rank:	286
National Overall Rank:	525	Region 6 Overall Rank:	61



RISK, NEEDS, AND TOPOGRAPHIC DATA

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

0 5 10 Miles

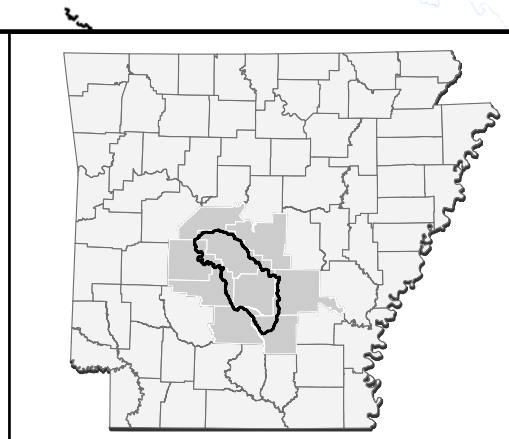
N W E S

County Seat
Interstate
Saline River and Major Reaches
Existing Topographic Data
City Limits
County Boundaries
Requested Study Areas
Upper Saline River HUC 8

Density Risk Decile
High
Low

CNMS Validation Status
Unverified
Assessed
Valid

* Unincorporated Communities



Project Location

FIGURE 11

DATE: 3/25/2013

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Engineering Review

All engineering related comments provided by the communities during the Discovery will be reviewed and validated. Any review comments will be provided back to the community where applicable with regard to hydrologic or hydraulic issues within the watershed and with any general floodplain or BFE related comments. Any supporting appeal or protest information, correspondence from communities, or anecdotal information will be reviewed to evaluate if impacts to hydrologic analysis are relevant and require further consideration.

In the Upper Saline Watershed, countywide modernized maps have been prepared for all of the counties with the exception of Grant County and Cleveland County. Grant County has not been modernized while Cleveland County received a partial countywide modernization. During the countywide map modernization peak discharges and SFHA boundary tie-ins should have been reviewed to identify anomalies and incorporate LOMRs. Additional changes and/or discrepancies that have since been identified within the watershed will be recorded and reviewed during Discovery.

Discovery CNMS Analysis

Table 14 shows the detailed study streams in the Upper Saline watershed that have failed one or more validation elements during the CNMS stream reach level validation process. The CNMS validation elements attempt to identify changes to the Physical Environment, Climate and Engineering Methodologies since the date of the Effective Analysis (different from the Effective issuance date). Per the CNMS validation process, the study is considered as having a need or assigned an 'Unverified' status, if one of seven critical elements (C#) fail, or if four or more of the 10 secondary elements (S#) fail, during stream reach level validation. The elements applied to the Upper Saline Watershed are included in the following table.

Table 14: CNMS Analysis

Stream Name	County	Validation Status	Failed CNMS Elements
Hurricane Creek	Saline County	Unverified	Model methodology no longer appropriate (C3), Current channel reconfiguration outside of SFHA (C5), Repetitive losses outside the SFHA (S2), New or removed hydraulic structure that impacts BFEs (S4), Channel improvements (S5), Availability of better topographic data (S6), Changes to vegetation or land use (S7)
Little Hurricane Creek	Saline County	Unverified	Model methodology no longer appropriate (C3), Availability of better topographic data (S6), Changes to vegetation or land use (S7)
Cedar Creek	Saline County	Unverified	Addition of major flood control structure (C4), Current channel reconfiguration outside of SFHA (C5), New or removed hydraulic structure that impacts BFEs (S4), Changes to vegetation or land use (S7)

Summary of CNMS Concerns

Along Hurricane Creek and Little Hurricane Creek, there has been significant development upstream and downstream of the Hurricane Lake Dam. It was noted during the recent Saline County, AR countywide Map Modernization project that upstream of the dam along Little Hurricane Creek and Hurricane Creek that the mapping did not agree with new topographic data. As the model was done some time ago, it could be that a change of methodology, using better topographic data is needed. Downstream of the Hurricane Lake Dam, new development has occurred. This development includes homes, roadways, and businesses.

Letters of Map Change (LOMC), Letters of Map Amendment (LOMA) and Letters of Map Revision (LOMR) are also distributed throughout the watershed but appear to be concentrated in the Cities of Benton, Bryant, and Sheridan, and the community of Hot Springs Village. The highest concentration of LOMCs on a single stream occurs along Hurricane Creek and its tributaries.

Upon review of the LOMR data available (also reviewed to as MT-2's), there have been multiple LOMRs filed since the FIRMs have become effective along these stretches; however, most of them have been suspended for various reasons, although construction has already occurred. Table 15 below provides a summary of the LOMRs that have been filed in the Upper Saline Watershed since the effective date of the local FIRM. A graphical summary of all of the Letters of Map Change, including active LOMRs, is provided on Figure 12.

For Cedar Creek, the existing detailed study near the unincorporated community of Hot Springs Village does not reflect the presence of the Lake Balboa dam located just downstream of the Saline / Hot Spring County Line. The presence of this dam has made the current effective mapping incorrect, as the lake extents are larger than the effective mapping.

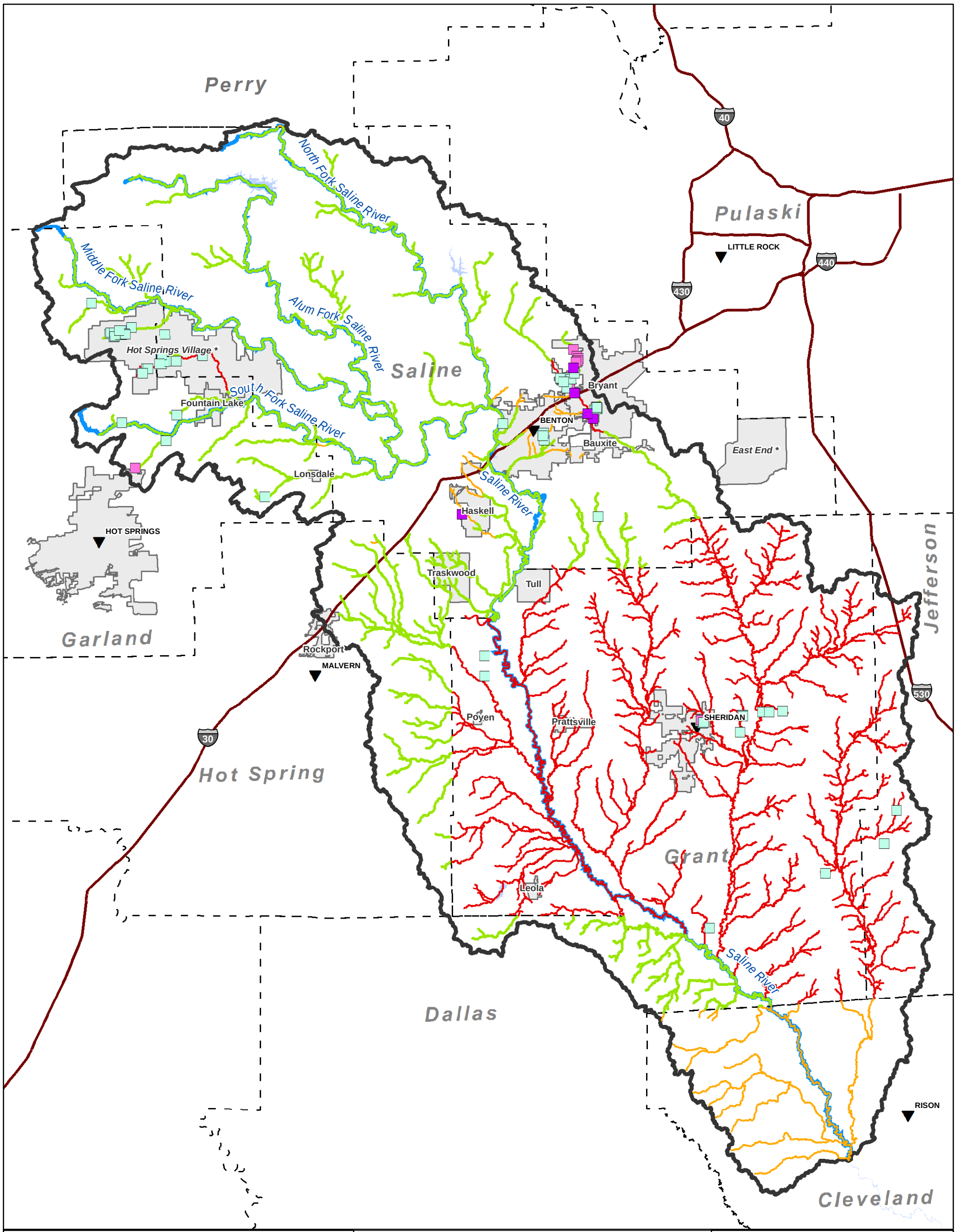
Table 15: LOMRs that Revise Hydraulics within the Watershed

Stream Name	Case number	Basis of request	Notes
Little Hurricane Creek	12-06-0842P	Hydraulic Analysis of new Culvert	CLOMR - Under Review at present
Hurricane Creek	12-06-1036P	New development inside the floodplain	Under Review at present
Hurricane Creek	11-06-3538P	Fill inside the floodplain	Suspended
Hurricane Creek	11-06-4249P	Fill inside the floodplain	Suspended
Trace Creek	12-06-0272P	Fill inside the floodplain	Suspended
Hurricane Creek	12-06-1036P	Fill inside the floodplain	Suspended

Discovery Hydraulics and Floodplain Analysis

A summary of all hydraulic data collected during the Discovery process will be prepared, including the review of recent LOMCs in the watershed that may have impacted hydraulics and/or created disconnects up and downstream.

The Hurricane Creek sub-basin has been identified several different times as needing attention, and this is again confirmed by the ongoing LOMR applications that are being considered in and around Hurricane Creek.



LETTER OF MAP CHANGE (LOMC) ACTIVITY

UPPER SALINE RIVER WATERSHED (HUC 08040203)

FEMA

0 5 10 Miles

N W E S

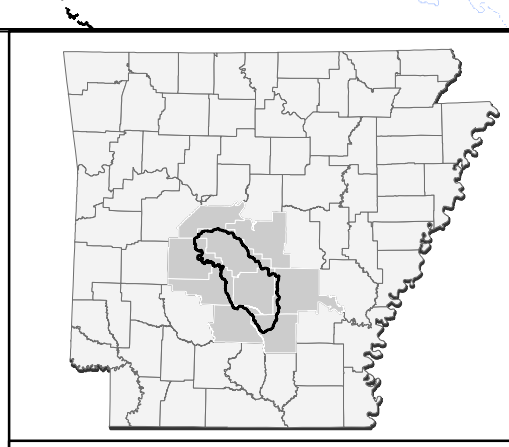
- County Seat
- Letters of Map Revision (LOMR)
- Letters of Map Amendment (LOMA)
- Letters of Map Revision Based on Fill (LOMR-F)

* Unincorporated Communities

- Interstate
- Saline River and Major Reaches
- City Limits
- County Boundaries
- Upper Saline River HUC 8

CNMS Validation Status

- Unverified
- Assessed
- Valid



Project Location

FIGURE 12

DATE: 3/25/2013

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