



ROBERTS COUNTY UPDATE TO PRE-DISASTER MITIGATION PLAN

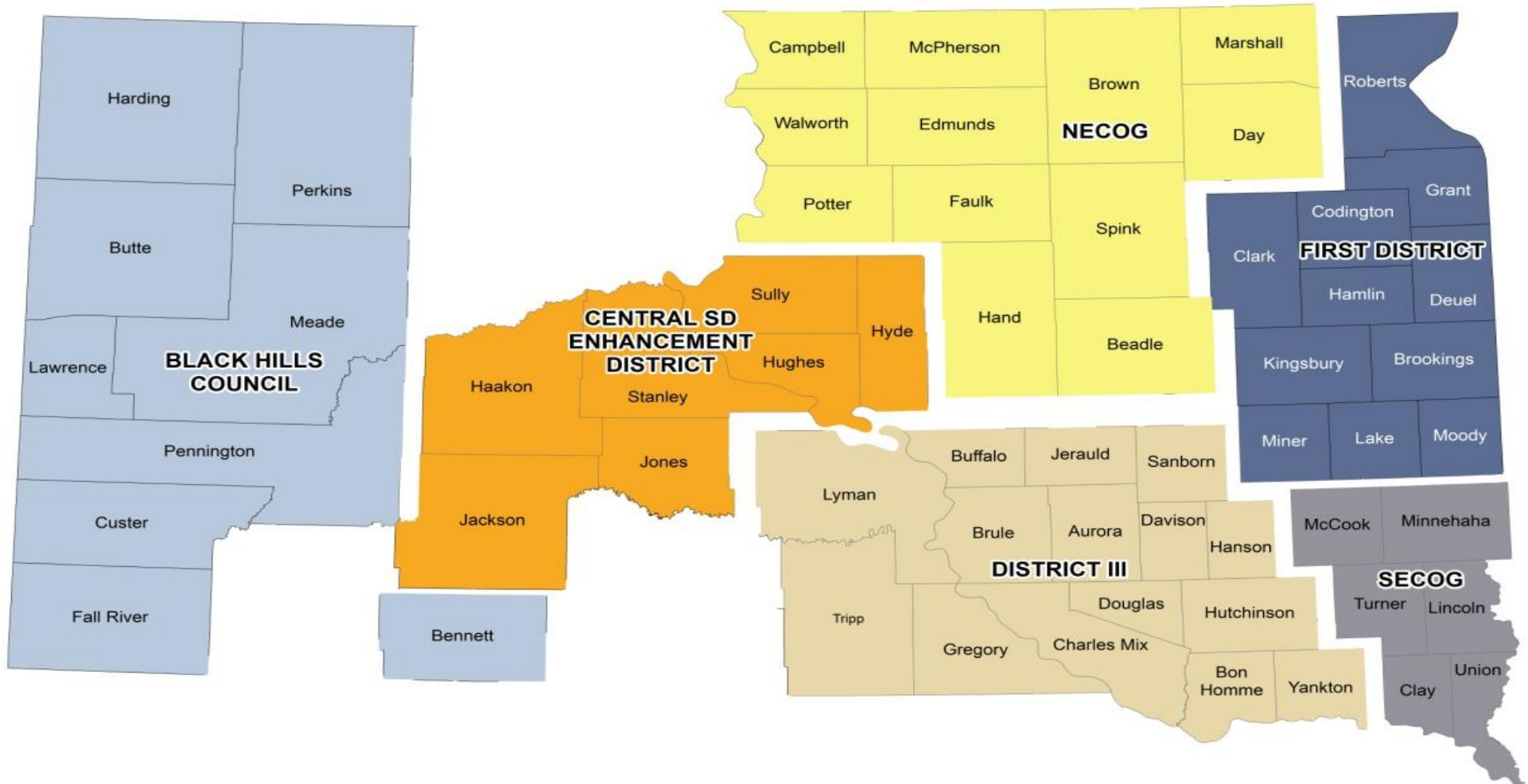
PDM TEAM KICKOFF

JANUARY 19TH, 2023

SISSETON CITY HALL

406 2ND AVE W, SISSETON, SD

FIRST DISTRICT ASSOCIATION OF LOCAL GOVERNMENTS



AGENDA

- Introduction of team members
- Why are we updating PDM?
- What is mitigation planning?
- Review plan components
- Review Timeline/scope

PDM'S COMPLETED:

- Brookings – 2014 & 2019
- Codington – 2012, 2017 & 2023
- Hamlin – 2014 & 2019
- Kingsbury – 2014 & 2019
- Miner – 2014 & 2019
- Moody – 2015 & 2020
- Roberts – 2014 & 2019
- Deuel – 2017 & 2022
- Lake – 2018 & 2023
- Clark – 2019
- Grant – 2014 & 2020
- Flandreau Santee Sioux Tribe - 2022

WHY ARE WE HERE?

- Existing PDM Plan approved December 2019.
- Plan will expire in December 2024.
- County applied for HMPG funds in 2021.
- Notice of Grant Award in October 2022 for PDM Development until December 2024, to complete all requirements.

TEAM PLAYERS

Municipalities

Townships

County
Commissioners

Utilities

Roberts County
Emergency
Management

First District

State of
South Dakota

FEMA

Emergency
Service Providers

WHAT IS MITIGATION PLANNING?

- Hazard mitigation planning is defined as any cost-effective action(s) that has the effect of reducing, limiting, or preventing vulnerability of people, property, and the environment to potentially damaging, harmful, or costly hazards.

WHAT IS A PRE-DISASTER MITIGATION PLAN?

- Allows a community to plan for a disaster before it occurs
- Helps reduce risk and minimize impact from future events
 - Protects people and structures
 - Preserves life, health, safety of residents
 - Protects the economic health and vitality of the community
- Breaks the cycle of disaster-repair-disaster in a community
- Makes the participants eligible to apply for Hazard Mitigation and other FEMA funding



DISASTER MITIGATION ACT OF 2000

- Establish a national program for pre-disaster mitigation
- Effective November 1, 2004, communities and tribes must have mitigation plans in place to be eligible for Hazard Mitigation Grant Program and Pre-Disaster Mitigation funding



ACT STRESSES PUBLIC PARTICIPATION

- An open public involvement process that is comprehensive, starts early, and is continuous
- Coordination with neighboring communities and various interest groups in plan development
- Counties, Cities, and Townships may participate to develop multi-jurisdictional plans.

COMPONENTS OF THE PRE-DISASTER MITIGATION PLAN

- Background/Community Profile
- Risk Identification and Assessment (Hazard Profile)
- Mitigation Goals/Strategies/Specific Actions
- Plan Maintenance

BACKGROUND/COMMUNITY PROFILE

- Similar to a county comprehensive land use plan – “Who is your community?”
- Details about a community
- Defines the people and the land
- Identifies key community investments



CRITICAL INFRASTRUCTURE

- What, where?
- Will it impact the community?
- Timeframe – How long will it impact community?
- Examples: Bridges, water and wastewater facilities, fire stations.



CRITICAL INFRASTRUCTURE

- Government Buildings
 - Post Office, Highway Department, Courthouse, Maintenance Buildings, Fire Departments, Schools, Community Center
- Airport
- Public/Private Utilities
 - Water, Sewer
 - Towers, Substations
- Major Employers
- Elderly Housing
- Hospitals, Clinics
- Emergency Fuel/Power
- Township halls, community centers, arenas, cultural and historic areas.

CREATING A RISK ASSESSMENT

- Risk assessment draws on community profile and hazard profile
- What assets (Critical Infrastructure) in the community will be affected by the hazard event?
- To what extent?



HAZARD PROFILE

- Risk Assessment - Identifies what natural hazards impact a community/county
- Use historical data
- Map areas affected by hazards



HAZARD RISK ASSESSMENT

- Risk Assessment
- Listed 20 natural hazards or events related to natural hazard
- Probability
 - Please identify what you believe the probability of a specific Hazard Event occurring
- High Probability to Occur
 - At Least Once a Year
- Low Probability to Occur
 - Hazards that may have occurred in the past or could occur in the future but do not occur on a yearly basis
- Unlikely to Occur
 - Hazards or disasters that have never occurred in the area before and are unlikely to occur

RISK ASSESSMENT
WORKSHEET -
HAZARD
IDENTIFICATION

Hazard	High Probability to Occur (At least once in a year)	Low Probability to Occur (Hazards that may have occurred in the past or could occur in the future but do not occur on a yearly basis)	Unlikely to Occur (Hazards or disasters that have never occurred in the area before and are unlikely to occur)
Dam Failure		X	
Drought	X		
Earthquake			X
Extreme Cold	X		
Extreme Heat	X		
Flood	X		
Freezing Rain/Sleet/Ice	X		
Hail		X	
Heavy Rain		X	
Heavy Snow	X		
Ice Jam		X	
Landslide			X
Lightning	X		
Rapid Snow Melt	X		
Strong Winds	X		
Subsidence		X	
Thunderstorm	X		
Tornado		X	
Urban Fire		X	
Wildfire	X		

HAZARD VULNERABILITY

- Hazard description
- Frequency
- Magnitude
- Location
- Spatial extent
- Duration
- Seasonal pattern
- Speed of onset
- Availability of warnings



VULNERABILITY ASSESSMENT

Listed 20 natural hazards or events related to natural hazard

Vulnerability Assessment

- **How vulnerable is the community from the following hazard? In other words, if the hazard occurs is there a potential to impact the community? If so, what would be impacted?**

High Vulnerability

- Significant risk/major damage potential (for example, destructive, damage to more than 10% of the jurisdiction and/or regular occurrence)

Medium Vulnerability

- Moderate damage potential (causing partial damage to 5-10% of the jurisdiction, and irregular occurrence)

Low Vulnerability

- Little damage potential (minor damage to less than 5% of the jurisdiction)

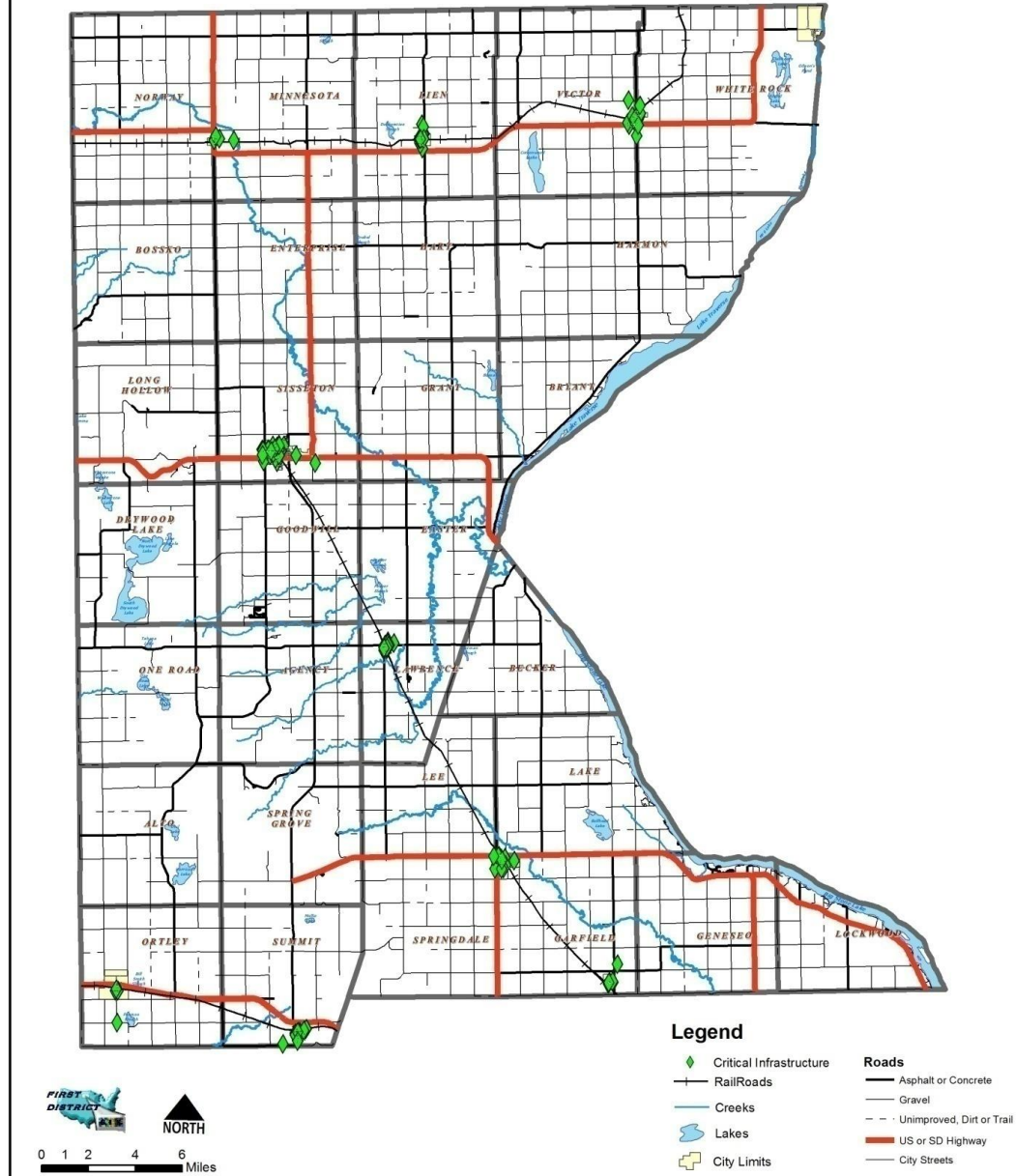
**RISK ASSESSMENT
WORKSHEET -
HAZARD
VULNERABILITY**

Hazard	High Vulnerability Significant risk/major damage potential (for example, destructive, damage to more than 10% of the jurisdiction and/or regular occurrence)	Medium Vulnerability Moderate damage potential (causing partial damage to 5-10% of the jurisdiction, and irregular occurrence)	Low Vulnerability Little damage potential (minor damage to less than 5% of the jurisdiction)	NA Not a hazard to the jurisdiction
Dam Failure			X	
Drought	X			
Earthquake			X	
Extreme Cold	X			
Extreme Heat	X			
Flood	X			
Freezing Rain/Sleet/Ice	X			
Hail	X			
Heavy Rain	X			
Heavy Snow	X			
Ice Jam		X		
Landslide				X
Lightning	X			
Rapid Snow Melt	X			
Strong Winds			X	
Subsidence				X
Thunderstorm	X			
Tornado		X		
Urban Fire		X		
Wildfire	X			

ROBERTS COUNTY

HAZARD VULNERABILITY / CRITICAL INFRASTRUCTURE

Figure 4.1: County Hazard Vulnerability Map



MITIGATION GOALS/STRATEGIES/SPECIFIC ACTIONS

- After the Risk Assessment – Goals/strategies/and specific actions are identified
- Action Plan
 - Prioritize strategies
 - Identify responsible parties
 - Estimate cost
 - Establish timeframe
 - Maintenance of Plan



PRINCIPLE GOALS

- **Reduce the loss of life, property, infrastructure, critical facilities, cultural resources and impacts from severe weather, flooding and other natural disasters.**
- **Improve public safety during severe weather, flooding and other natural disasters.**
- **Improve the County's Emergency Preparedness and Disaster Response and Recovery capabilities.**

Mitigation Activities for Flood Hazards

- **Goal #1:** Protect specific areas of Roberts County from flooding.
- **Goal #2:** Educate and inform Roberts County residents regarding flooding safety.
- **Goal #3:** Reduce the extent to which utility interruptions affect areas during flooding events.

GOALS...

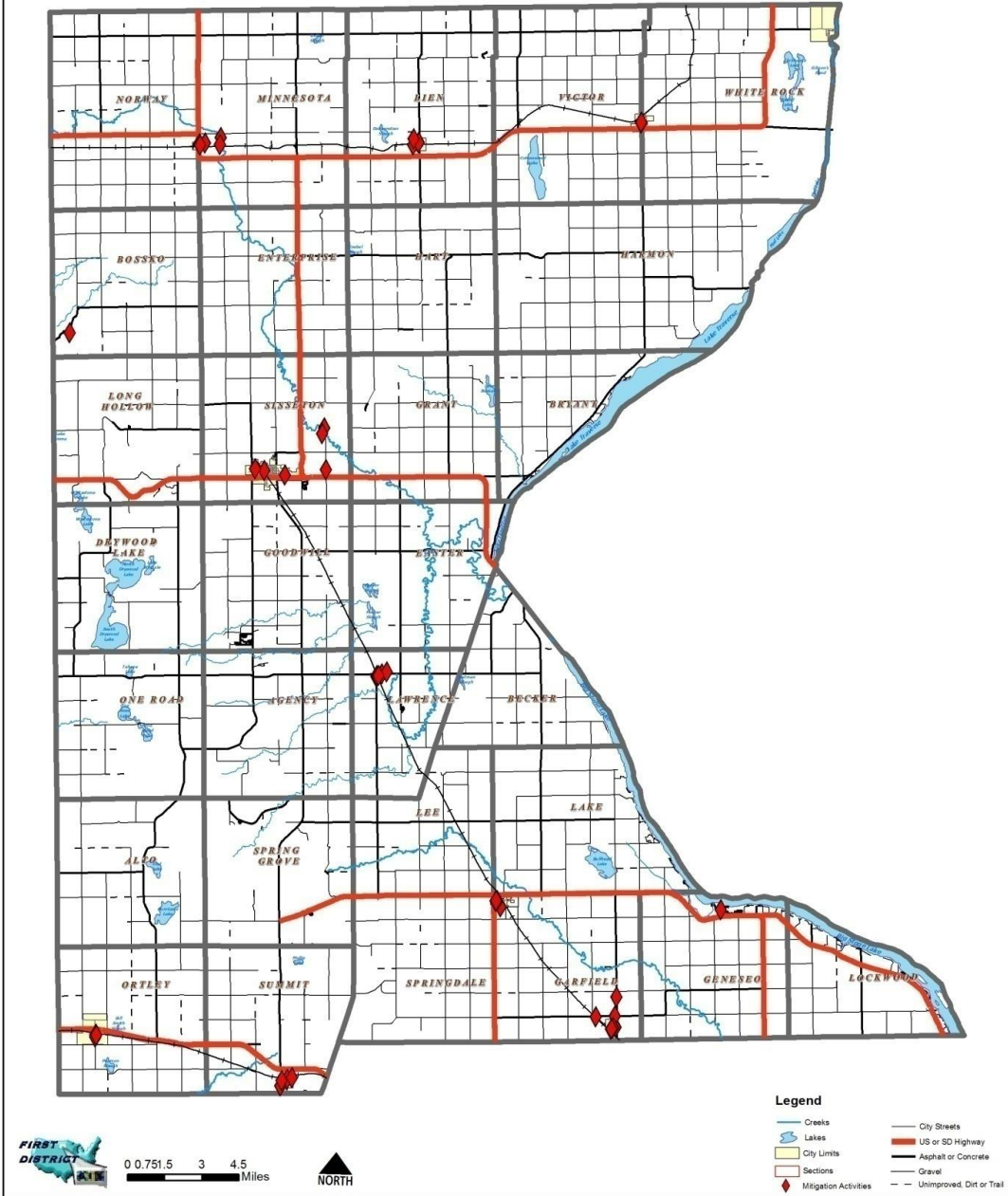
Mitigation Activities for Severe Weather Hazards (Summer and Winter)

- **Goal #1:** Increase public awareness and education on severe weather issues.
- **Goal #2:** Improve public safety during severe weather.
- **Goal #3:** Reduce the extent to which utility interruptions affect areas during severe weather situations.
- **Goal #4:** Reduce crippling effects of winter storms, especially regarding smaller communities.

Mitigation Activities for Fire and Drought Hazards

- **Goal #1:** Increase fire fighting capabilities.
- **Goal #2:** Reduce the negative effects droughts have on Roberts County.
- **Goal #3:** Reduce the negative effects wildfires have on Roberts County.

ROBERTS COUNTY MITIGATION ACTIVITIES



**Figure 5.1: County
Potential Mitigation**

PROCESS/TIMELINE

- January 2023 – Plan to Plan
 - Establish PDM Team
 - PDM Team Kickoff Meeting
 - Review existing PDM
 - Develop PDM Template/Plan Process
- February – July 2023
 - Risk Assessment/Project Identification/Prioritization
 - Community/Township Meetings
 - Draft Preparation
- August 2023
 - PDM Team Meeting #2 – Review of PDM Draft
- October 2023– Draft Review and Approval
 - PDM Team Meeting #3 – Review/Approve Draft
 - Draft submitted to State and FEMA
- October – December 2023
 - State and FEMA approval
- January – March 2024
 - Approval by County and municipalities



QUESTIONS?

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