

1.1 Introduction

The Papio-Missouri River Natural Resource District (P-MRNRD) is one of 23 natural resources districts (NRDs) in the state of Nebraska. The Nebraska legislature created NRDs in 1972 by combining 154 special purpose resources management agencies, including soil and water conservation districts, drainage districts and watershed boards. Boundaries were formed using river basin boundaries for each NRD. For instance, the P-MRNRD boundary is formed by the Papio and Missouri River basins and contains all of the counties of Sarpy, Douglas, Washington, and Dakota and portions of Burt and Thurston counties. The boundaries of the P-MRNRD represent the area covered by this multi-jurisdictional planning process as shown on Figure 1.1.

The NRDs have broad legislative authorities for the protection and enhancement of natural resources within the state. Specifically, the broad-based objectives of the P-MRNRD are to address the following resource needs:

1. Reduce flood damages.
2. Maintain water quality and quantity.
3. Reduce soil erosion and sedimentation damages.
4. Provide outdoor recreation facilities.
5. Provide domestic water supply.
6. Develop and improve fish and wildlife habitat and forest resources.
7. Participate in solid waste management and recycling.

Given these broad authorities, NRDs are the ideal government agency in Nebraska to fulfill local multi-jurisdictional Hazard Mitigation Plan requirements, including both the Disaster Mitigation Act of 2000 (DMA 2000) and the National Flood Insurance Reform Act of 1994 (NFIRA). Because of this fact, the P-MRNRD adopted their first All-Hazards Mitigation Plan in October 2006. Cities and counties within the NRD boundaries participated in that effort led by the P-MRNRD at that time to make the plan multi-jurisdictional.

In accordance with the DMA 2000 implementing regulations and to maintain a current, relevant plan, the P-MRNRD has joined together again with participating jurisdictions in its boundaries to update the plan. This Regional Multi-Hazard Mitigation Planning process has resulted in updates to effective mitigation activities and expansion of local participation to include previously non-participating jurisdictions, school districts and community organizations. By effectively participating in this plan and following the Federal Emergency Management Agency (FEMA) planning process guidelines, the P-MRNRD, along with other local government agencies and organizations, has built local public and political support for proactive (not reactive) hazard mitigation projects, allowed local governments to be eligible for post-disaster public assistance, and fulfilled planning requirements for applicable hazard mitigation grants.

According to the Nebraska Association of Resources Districts (NARD), the P-MRNRD consists of 30 communities, has a population of 650,000 (U.S. Census 2000), and a total area of 1,116,800 acres. Within the 6 counties of the P-MRNRD, 61 entities were identified as being

potential officially participating jurisdictions in the plan, including the NRD, counties, communities, and schools districts. Other entities were encouraged to support the planning process, including townships, fire districts, and businesses. These entities were not included in the count listed above. These entities were considered supporting stakeholders, but were not considered jurisdictions in the plan. See Table 1.1 below for a complete listing of the entities in the planning area and a description of how each entity was involved in the planning process. An asterisk (*) next to the entity name indicates that the community either participated in the P-MRNRD 2006 All-Hazard Mitigation Plan or previously had their own local All-Hazard Mitigation Plan.

Table 1.1. Involvement in Planning Process

Community Name	Signed Resolution of Participation	Attended Public Meeting #1 and/or Completed Public Input Forms Regarding Hazards of Concern	Attended Public Meeting #2 and/or completed STAPLEE Form	Submitted One or More Mitigation Projects	Adopt Plan
Natural Resources Districts					
Papio-Missouri River NRD*	x	x	x	x	
Burt County					
Burt County	x	x	x	x	
City of Tekamah*					
Village of Decatur	x	x	x	x	
Lyons-Decatur Northeast Schools					
Tekamah-Herman Community Schools	x	x	x	x	
Summit Township	x	x	x	x	
Everett Township		x			
Dakota County					
Dakota County*	x	x	x	x	
Dakota City	x	x	x	x	
Village of Homer*	x				
Village of Hubbard	x	x			
Village of Jackson*	x	x	x	x	
South Sioux City*	x	x	x	x	
South Sioux City Community Schools	x	x			
Homer Community Schools		x			
Emerson/Hubbard Community Schools	x	x	x	x	

Community Name	Signed Resolution of Participation	Attended Public Meeting #1 and/or Completed Public Input Forms Regarding Hazards of Concern	Attended Public Meeting #2 and/or completed STAPLEE Form	Submitted One or More Mitigation Projects	Adopt Plan
Northeast Community College - South Sioux City		x			
Douglas County					
Douglas County*	X	x	x	x	
City of Bennington*	x	x			
City of Omaha*	x	x	x	x	
City of Ralston*	x	x	x	x	
City of Valley*	x	x	x	x	
Village of Boys Town	x				
Village of Waterloo*	x	x	x	x	
Bennington Public Schools					
Douglas County West Community Schools					
Elkhorn Public Schools					
Metropolitan Community College	x	x	x	x	
Millard Public Schools					
Omaha Public Schools	x	x	x	x	
Ralston Public Schools					
University of Nebraska Omaha		x			
University of Nebraska Medical Center	x	x	x	x	
Westside Community Schools					
Sarpy County					
Sarpy County*	x	x	x	x	
City of Bellevue	x	x	x	x	
City of Gretna	x	x	x	x	
City of La Vista*	x	x	x	x	
City of Papillion*	x	x	x	x	
City of Springfield*	x	x	x	x	
Offutt Air Force Base	Declined to Participate				
Gretna Public Schools					
Bellevue Public Schools	x	x	x	x	
Papillion-La Vista Public Schools	x	x	x	x	
South Sarpy District 46	x				

Community Name	Signed Resolution of Participation	Attended Public Meeting #1 and/or Completed Public Input Forms Regarding Hazards of Concern	Attended Public Meeting #2 and/or completed STAPLEE Form	Submitted One or More Mitigation Projects	Adopt Plan
Thurston County					
Thurston County*		x			
Village of Walthill	x	x	x	x	
Village of Winnebago		x			
Village of Macy		x			
U M O N H O N Nation Public Schools					
Walthill Public Schools					
Winnebago Public Schools		x			
Washington County					
Washington County*	x	x	x	x	
City of Blair*	x	x	x	x	
City of Fort Calhoun*	x	x	x	x	
Village of Arlington*	x				
Village of Herman*					
Village of Kennard*					
Village of Washington*					
St. Paul's Lutheran Elementary School					
Arlington Public Schools					
Blair Community Schools					
Fort Calhoun Community Schools					

Table 1.2, below, is the final list of participating jurisdictions. An asterisk (*) next to the entity name indicates that the community either participated in the P-MRNRD 2006 All-Hazard Mitigation Plan or previously had their own local All-Hazard Mitigation Plan.

Table 1.2. Participating Jurisdictions

Communities	
P-MRNRD*	Village of Waterloo*
Burt County	Sarpy County*
Village of Decatur	City of Bellevue
Dakota County*	City of Gretna

Communities	
Dakota City	City of La Vista*
Village of Jackson*	City of Papillion*
South Sioux City*	City of Springfield*
Douglas County*	Village of Walthill
City of Omaha*	Washington County*
City of Ralston*	City of Blair*
City of Valley*	City of Fort Calhoun*
School Districts and Colleges	
Bellevue Public School District	Tekamah-Herman Community School District
Emerson-Hubbard Community School District	Metropolitan Community College
Omaha Public School District	University of Nebraska Medical Center
Papillion – La Vista School District	

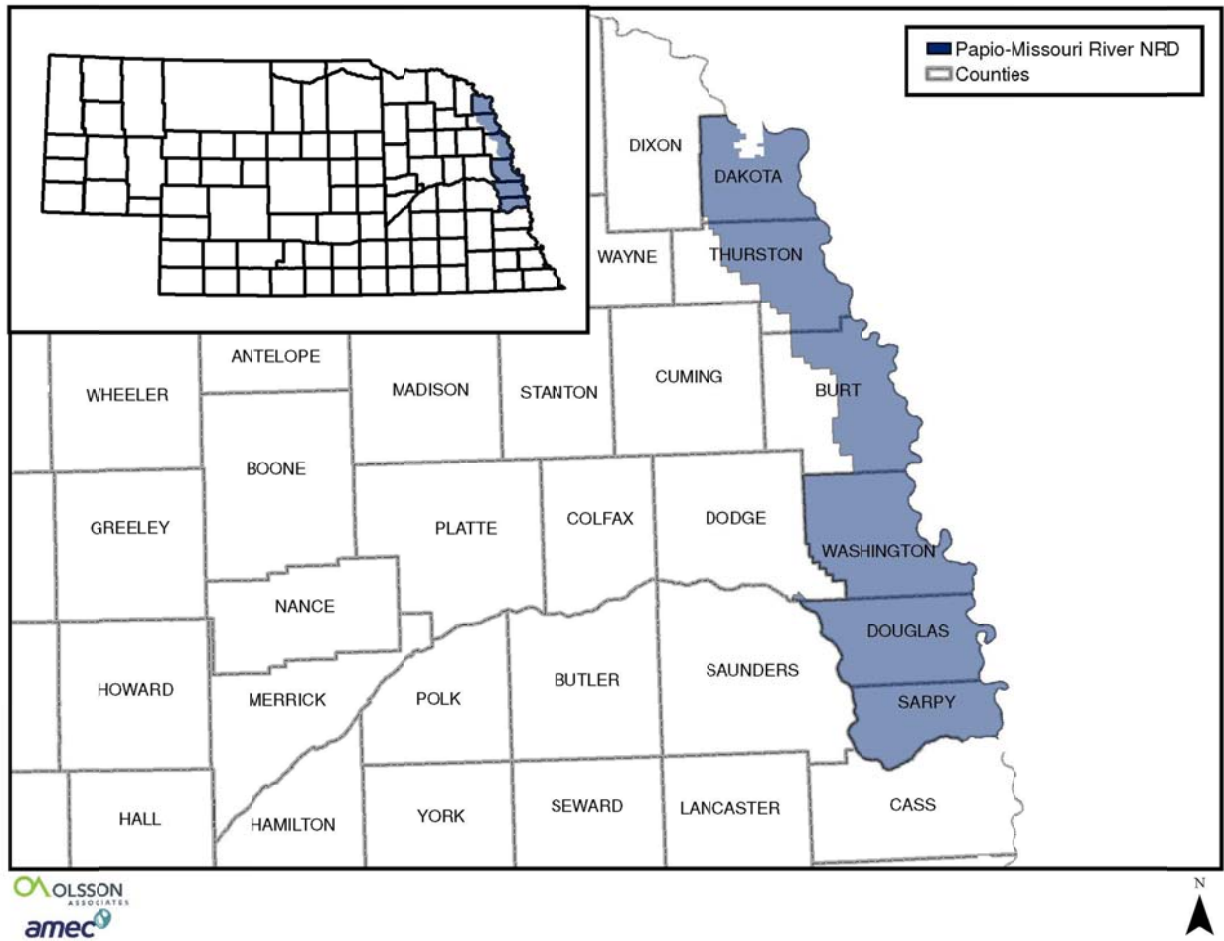
Table 1.3, below, describes the jurisdictions that are currently considered not participating in this Multi-Hazard Mitigation Plan. An asterisk (*) next to the entity name indicates that the community either participated in the P-MRNRD 2006 All-Hazard Mitigation Plan or previously had their own local All-Hazard Mitigation Plan.

Table 1.3. Non-Participating Jurisdictions

Communities	
City of Tekamah*	Thurston County*
Everett Township (Supporting Stakeholder)	Village of Winnebago
Village of Homer*	Village of Macy
Village of Hubbard	Village of Arlington*
City of Bennington*	Village of Herman*
Village of Boys Town	Village of Kennard*
Offut Air Force Base	Village of Washington*

School Districts and Colleges	
Arlington Public School District	Ralston Public School District
Bennington Public School District	South Sarpy District 46
Blair Community School District	South Sioux City Community School District
Douglas County West Community School District	St. Paul's Lutheran Elementary School
Elkhorn Public School District	UMO N HO N Nation Public Schools
Fort Calhoun Community School District	Walthill Public School District
Gretna Public School District	Westside Community School District
Homer Community School District	Winnebago Public School District
Lyons-Decatur Northeast School District	Northeast Community College – South Sioux City
Millard Public School District	University of Nebraska-Omaha

Figure 1.1. Project Area



1.2 Purpose

The purpose of this updated plan is to sustain actions designed to reduce or eliminate long-term risk to people and property from natural and other hazards as well as to ensure that each participating community is eligible to obtain federal funding under the Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation Program (PDM), and the Flood Mitigation Assistance (FMA) Program. Through this plan, the P-MRNRD and participating jurisdictions have re-evaluated the hazards affecting the area, updated the risks these hazards present to the respective communities, revised mitigation goals, and identified and/or updated feasible mitigation activities for the participating entities. The updated plan is the result of a collaborative effort by the following participating jurisdictions:

- Pappo-Missouri River Natural Resource District
- Burt County
 - Village of Decatur

- Tekamah-Herman Community Schools
- Dakota County
 - Dakota City
 - Village of Jackson
 - South Sioux City
 - Emerson/Hubbard Community Schools
- Douglas County
 - City of Omaha
 - City of Ralston
 - City of Valley
 - Village of Waterloo
 - Metropolitan Community College
 - Omaha Public Schools
 - University of Nebraska Medical Center
- Sarpy County
 - City of Bellevue
 - City of Gretna
 - City of La Vista
 - City of Papillion
 - City of Springfield
 - Bellevue Public Schools
 - Papillion-La Vista Public Schools
- Thurston County (Not a participant in the plan)
 - Village of Walthill
- Washington County
 - City of Blair
 - City of Fort Calhoun

Please see Appendix A to review signed ‘Resolutions for Participation’ passed by communities agreeing to participate in the planning process.

1.3 Planning Process

44 CFR Requirement §201.6(b): In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

- 1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;**

- 2) An opportunity for neighboring jurisdictions, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and,
- 3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information

44 CFR Requirement §201.6(c)(1): [The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

1.3.1 Background

In 2006, the P-MRNRD adopted the first All – Hazards Mitigation Plan developed in the state of Nebraska. This updated *Regional Multi-Hazard Mitigation Plan* follows the requirements of Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. 5165, as amended by Section 104 of the DMA 2000, P.L. 106-390 and regulations set forth in 44 CFR §201.6, *Local Mitigation Plans*. The planning effort for the 5 year update began in 2009, with the P-MRNRD obtaining grant funding from the Nebraska Emergency Management Agency (NEMA). The next step for the P-MRNRD was to select an engineering consultant to assist with drafting the plan update. A Request for Proposals was published and ultimately the team of Olsson Associates (Olsson) of Omaha, Nebraska and AMEC of Topeka, Kansas was selected as the engineering consultant team. Due to the nature of this multi-jurisdictional plan, the project team agreed upon a chain-of-command for how information would be distributed and how the planning process would be organized. The project team consisted of the P-MRNRD, Olsson, AMEC, and an advisory committee, including county emergency management directors and floodplain managers. The Nebraska Department of Natural Resources (NDNR) and NEMA also provided assistance in the planning process. The planning team was assembled using personnel from each agency that was familiar with the local hazards and capable of generating public interest in the project.

1.3.2 Planning Team and Meetings

The P-MRNRD was the primary contact for information dissemination and Lori Laster, project manager for the P-MRNRD, was the primary point of contact with Olsson throughout the project. Olsson communicated with Lori to forward information to the rest of the project team. The advisory committee met periodically and was consulted about meeting dates, times, and locations. Additionally, the advisory committee provided feedback on individuals and groups who should be notified of upcoming meetings and project events. There were three public meetings held at the beginning of the planning process; meetings were combined for Douglas and Sarpy Counties, Washington and Burt Counties, and Dakota and Thurston Counties. Representatives from the NRD, Olsson, AMEC, as well as the advisory committee were present at the first round of public meetings. Community representatives were invited to attend the public meetings through telephone calls, letters, and public notices in local papers (See

documentation in Appendix A). The public notices also served to notify neighboring communities, businesses, academia, and private non-profit entities as well as local and regional agencies involved in hazard mitigation and/or regulation of development. Additionally, a project website was established (http://oaprojects.com/papionrd_hazard/) in order to provide participants and citizens with information regarding the planning process. Representatives were encouraged to attend the meeting for their respective county but were welcome to attend other meetings if they had a scheduling conflict. The first public meetings were held in late October and early November 2009. The dates and locations of these meetings were as follows:

- October 20 – Dakota and Thurston County (Dakota City)
- October 27 – Douglas and Sarpy County (Omaha)
- November 4 – Washington and Burt County (Blair)

Each public meeting followed the same agenda (available in Appendix A), starting with a presentation, explaining the need for the planning effort and how communities could participate. Survey forms were handed out as representatives arrived and they were asked to fill them out after the conclusion of the presentation. These forms were crucial in providing Olsson with the background information on the hazards that threaten each entity. At the conclusion of each meeting the attendees were notified that a copy of the presentation would be available on the project website or by contacting the P-MRNRD or Olsson. After the completion of the first round of meetings, the planning team followed up with the communities that had not been represented. Phone calls were made to representatives of each entity within the planning area in an attempt to notify each community of the planning process, benefits, and requirements. Informational letters, along with the surveys disseminated at the meetings, were mailed or e-mailed to each representative. Neighboring communities and other interested parties were contacted via mailings or phone calls and were provided the opportunity to be involved in the planning process (a copy of the notice provided to neighboring jurisdictions is available in Appendix A). The goal of the planning team was to ensure everyone was given ample opportunity to participate in the plan, whether through public meetings, mailings, the project website or personal communication.

Prior to the first round of public meetings, Olsson project team members arranged to attend local Regional School Safety Meetings, organized by local Educational Service Units (ESUs). There were two meetings held within the planning area on October 16, 2009 and October 19, 2009, and Olsson gave a brief presentation at each meeting. The presentations were similar to those used at the initial public meetings, explaining the need for the planning effort and how participation would benefit school districts. These meetings were used to generate interest in the planning effort by local school districts, which were not included in the planning effort that resulted in the 2006 plan.

A second set of public meetings was conducted in May 2010 to collect mitigation actions and complete Social, Technical, Administrative, Political, Legal, Economic, and Environmental (STAPLEE) forms for each action. As with the first round of public meetings, the advisory

committee was consulted about the meeting dates, times, and locations. Representatives from the county emergency management agencies attended the meeting located in their respective counties, along with a representative from the NRD, Olsson, and AMEC. There were three public meetings for the second round of meetings. Once again, meetings were combined for Dakota and Thurston counties, Burt and Washington Counties, and Douglas and Sarpy Counties. Entity representatives were invited to attend through emails, telephone calls, post card invites, and a press release submitted to local papers (See documentation in Appendix A). Representatives were encouraged to attend the meeting that was the most convenient for them. The dates and locations of the meetings were as follows:

- May 10, 2010 – Dakota and Thurston Counties (Dakota City)
- May 10, 2010 – Burt and Washington Counties (Tekamah)
- May 13, 2010 – Douglas and Sarpy (Omaha)

As before, each meeting, followed the same agenda (available in Appendix A), starting with a presentation prepared by Olsson and AMEC. The presentation updated the public on the progress of the planning effort to date and summarized the information that remained to be completed. At the conclusion of the presentation the STAPLEE forms were provided for the representatives to complete and to ask questions. These forms were critical for the plan writers to determine project prioritization and complete the cost benefit review. At the conclusion of the meeting, the STAPLEE forms were collected, or advice was given to the representatives on how to submit the STAPLEE forms in the future. The STAPLEE methodology is discussed in Section 4 “Mitigation Strategy”.

A Public Hearing was scheduled during the draft review and comment period, giving the public and the P-MRNRD Board an opportunity to provide feedback on the plan. During this hearing, Lori Laster and the Olsson team made a presentation on the plan requirements, contents, and participants. Afterwards, the floor was opened for a question and answer session. Table 1.4 summarizes the meetings conducted throughout the planning timeline, organized by date held, agenda, and attendees.

Table 1.4. Summary of Planning Meetings

Meeting	Date	Purpose of Meeting	Attendees
Advisory Committee Meeting #1	9/23/09	Background, Define role of Advisory Committee, Initial planning, Participation requirements	Advisory Committee, P-MRNRD, Olsson, AMEC
2009 Regional School Safety Meeting	10/16/09	Introduce plan and personnel, explain importance of plan, gather public input from representatives of planning area school districts, determine mitigation alternatives	School District Reps, Olsson

Meeting	Date	Purpose of Meeting	Attendees
2009 Regional School Safety Meeting	10/19/09	Introduce plan and personnel, explain importance of plan, gather public input from representatives of planning area school districts, determine mitigation alternatives	School District Reps, Olsson
Public Meeting #1	10/20/09	Introduced plan and personnel, explained importance of plan, gathered public input from representatives of Dakota and Thurston Counties, determined mitigation alternatives	Dakota, Thurston County Reps, P-MRNRD, Olsson, AMEC
Public Meeting #1	10/27/09	Introduced plan and personnel, explained importance of plan, gathered public input from representatives of Douglas and Sarpy Counties, determined mitigation alternatives	Douglas, Sarpy County Reps, P-MRNRD, Olsson, AMEC
Public Meeting #1	11/4/09	Introduced plan and personnel, explained importance of plan, gathered public input from representatives of Burt and Washington Counties, determined mitigation alternatives	Burt, Washington County Reps, P-MRNRD, Olsson, AMEC
Advisory Committee Meeting #2	2/4/10	Reviewed project progress, provided updated timeline, provided examples of mitigation projects, collaborated on public participation	Advisory Committee, P-MRNRD, Olsson, AMEC
Public Meeting #2	5/10/10	Reviewed progress and information from first meeting, explained and shared Risk and Hazard Assessment, explained project identification lists and STAPLEE Form to representatives of Dakota and Thurston Counties	Dakota, Thurston County Reps, P-MRNRD, Olsson, AMEC
Public Meeting #2	5/10/10	Reviewed progress and information from first meeting, explained and shared Risk and Hazard Assessment, explained project identification lists and STAPLEE Form to representatives of Burt and Washington Counties	Burt, Washington County Reps, P-MRNRD, Olsson, AMEC
Public Meeting #2	5/13/10	Reviewed progress and information from first meeting, explained and shared Risk and Hazard Assessment, explained project identification lists and STAPLEE Form to representatives of Douglas and Sarpy Counties	Douglas, Sarpy County Reps, P-MRNRD, Olsson, AMEC

Meeting	Date	Purpose of Meeting	Attendees
Advisory Committee Meeting #3	9/9/10	Reviewed remaining schedule, presented and discussed hazard mitigation plan goals and objectives, discussed hazard summaries, reviewed mitigation actions, reviewed status of community participation	Advisory Committee, P-MRNRD, Olsson
HMP Draft Review	10/1/10 – 12/1/10	Draft plan was available for review on the project website. Any comments received were incorporated into the plan.	N/A
Public Hearing	11/10/10	Present draft plan to P-MRNRD Board and Public and explain the requirements for the plan, the contents of the plan, and the remaining timeline for completion. Question and Answer session followed the plan presentation.	P-MRNRD Board of Directors, General Public, Olsson

For each set of public meetings, press releases were sent to local media contacts, notifying the public of the meeting times and locations. This not only served to notify the residents of the participating counties, but also allowed neighboring areas the opportunity to attend and participate in the meetings. Copies of each press release are included in Appendix A.

The plan was developed over the course of 15 months from September 2009 to December 2010. Below is a list of the key personnel involved in the planning process. To view records of the representatives who attended the public meetings, please see the public meeting sign in sheets available in Appendix A.

Advisory Committee Members

- Lori Laster – Papio-Missouri River Natural Resource District
- Paul Woodward – Olsson Associates
- Carrie Romero – Olsson Associates
- Dennis Lawlor – AMEC
- Laurie Bestgen – AMEC
- Peggy Smith – Burt County Roads
- Bill Pook – Region 5/6 Emergency Management
- Dan Douglas – Region 5/6 Emergency Management
- Pat Foust – Dakota County/South Sioux City Emergency Management
- Deanna Beckman – Dakota County/South Sioux City Emergency Management
- Paul Johnson – Douglas County Emergency Management
- Barb Frohlich – Douglas County Floodplain Management
- Michael Carter – City of Omaha Planning Department
- Larry Lavelle – Sarpy County Emergency Management
- Lynn Marshall – Sarpy County Emergency Management
- Rebecca Horner – Sarpy County Planning Director

- Tom Perez – Thurston County Emergency Management
- Doug Cook – Washington County Planning
- Phil Green – City of Blair
- Grant Anderson – MAPA

To meet guidelines established by the planning team, each entity was required to turn in a signed resolution of participation, attend the first public meeting and/or turn in a public comment form, and submit a STAPLEE form indentifying action items. If those three items were completed, the entity was considered to be a part of the planning effort. In all, 29 entities turned in the necessary paperwork and met the requirements to be considered officially participating jurisdictions in the plan. Resolutions adopting the approved plan are provided in Appendix D. To view a list of the status of all entities, please see Table 1.1.

1.3.3 2006 All-Hazard Mitigation Plan Review and Update Methodology

Using the guidance of FEMA’s *Local Multi-Hazard Mitigation Planning Guidance, 2008* and *Multi-Jurisdictional Planning, 2006* the project team determined that the entire 2006 plan required amendment due to the availability of new information, conformity with FEMA requirements, inclusion of additional communities and school districts, and changes in priorities. Table 1.5 outlines the changes made to the individual plan sections as well as the basis for the revisions.

Table 1.5. Review Process Summary

Section	Reviewed	Revisions Made	Basis for Revisions	Summary of Revisions
Introduction	Yes	Yes	Plan reformatting	Incorporated into Section 1: Planning Process; Includes an introduction to the plan and the process to create the plan
Risk Assessment	Yes	Yes	Plan reformatting and re-evaluation of regional hazards	Additional 6 hazards evaluated; mitigation goals, objectives, and actions moved to Section 4: Mitigation Strategy; HAZUS-MH MR4 was utilized to determine assets at risk; Hazard Ranking Methodology based on the state’s methodology and scoring system relating to the four criteria of history, vulnerability, maximum threat, and probability.

Section	Reviewed	Revisions Made	Basis for Revisions	Summary of Revisions
Public Participation on Plan	Yes	Yes	Plan reformatting and changes to participating jurisdictions	Incorporated into both Section 1: Planning Process and Section 4: Mitigation Strategy; Changes to participating jurisdictions noted
Implementation	Yes	Yes	Plan reformatting	Portions of this section incorporated into both Section 4: Mitigation Strategy and Section 5: Plan Maintenance

This update includes a revision to the formatting of the earlier plan. Olsson, AMEC, and P-MRNRD staff conducted research, collected information, developed maps, and authored the plan update. Throughout the data collection and drafting stages of the plan update, the advisory committee was consulted to provide comments and feedback. A draft of the plan was presented to the Project Team for review on October 1, 2010. At this time the draft plan was placed on the project website, available for download by any interested party. Public notice was placed in local papers, notifying the public that the plan was available on the project website for review before submittal for approval. In addition, postcard notices were sent to jurisdiction representatives to notify them of the availability of the draft plan. The documentation of the public notice is available in Appendix A. The public was given a two month time period to review the draft plan, from October 1, 2010 to December 1, 2010.

1.3.4 Review and Incorporation of Existing Plans

In updating the P-MRNRD Multi Hazard Mitigation Plan, it was important to incorporate any existing information into the plan documenting potential hazards or threats in the area. To obtain this information, Olsson worked with the P-MRNRD, the NDNR, and local jurisdictions to determine any existing plans, studies, reports, or other technical information that would be beneficial to include in this plan. Table 1.6 details the different planning mechanisms that were reviewed as part of this planning effort and also details how each planning mechanism was used for this plan.

Table 1.6. Existing Plans, Studies, Reports, or Other Technical Information Summary

Planning Mechanism	Description of Use
2006 P-MRNRD All-Hazards Mitigation Plan	Updated information from 2006 for use in this plan.

Planning Mechanism	Description of Use
State of Nebraska Hazard Mitigation Plan	Obtained hazards of concern for project area.
Disaster Mitigation Act of 2000 (DMA 2000)	Researched guidelines for plan.
Nebraska Association of Resources Districts (NARD)	Researched and obtained information regarding P-MRNRD.
Nebraska Department of Natural Resources (NDNR)	High hazard dam information; 2006 Hazard Mitigation Plan files and figures
“Local Multi-Hazard Mitigation Planning Guidance”, 2008, FEMA	Researched guidelines for plan.
“Multi-Jurisdictional Planning”, 2006, FEMA	Researched guidelines for plan.
Nebraska Emergency Management Agency (NEMA)	Obtained guidance and location of reference documents to ensure the proper criteria were followed for planning process.
U.S. Census Bureau	Researched and obtained demographic information for use in this plan.
Nebraska State Data Center	Obtained demographic information for P-MRNRD.
University of Nebraska – Omaha	Obtained demographic information for P-MRNRD.
High Plains Regional Climate Center (HPRCC)	Obtained climate information for P-MRNRD.
Bellevue Public School District	Obtained information about the school district to include in the plan.
Emerson-Hubbard Community School District	Obtained information about the school district to include in the plan.
Omaha Public School District	Obtained information about the school district to include in the plan.
Papillion – La Vista School District	Obtained information about the school district to include in the plan.
Tekamah-Herman Community School District	Obtained information about the school district to include in the plan.
Metropolitan Community College	Obtained information about the college to include in the plan.
University of Nebraska Medical Center	Obtained information about the University to include in the plan.
HAZUS-MH MR4	Used information from other sources to input into the program in order to develop risk assessment portion of this plan.
FEMA 386-2 “Understanding Your Risks: Identifying Hazards and Estimating Losses”	Researched guidelines for plan.
U.S. Department of Agriculture (USDA)	Provided crop insurance data for planning area.

Planning Mechanism	Description of Use
National Oceanic and Atmospheric Administration (NOAA)	Obtained climate information and information on weather trends and hazard events in the planning area.
National Climatic Data Center (NCDC)	Attained information regarding past hazard occurrences for use in this plan.
Federal Emergency Management Agency (FEMA)	Utilized information regarding NFIP participation, Floodplain maps, Flood Insurance Studies, and other helpful information for incorporation into this plan.
National Drought Mitigation Center (NDMC)	Researched drought patterns for use in this plan.
Local Emergency Operations Plan – Burt County	Reviewed LEOP and incorporated pertinent information into this plan.
Local Emergency Operations Plan – Dakota County	Reviewed LEOP and incorporated pertinent information into this plan.
Local Emergency Operations Plan – Douglas County	Reviewed LEOP and incorporated pertinent information into this plan.
Local Emergency Operations Plan – Sarpy County	Reviewed LEOP and incorporated pertinent information into this plan.
Local Emergency Operations Plan – Thurston County	Reviewed LEOP and incorporated pertinent information into this plan.
Local Emergency Operations Plan – Washington County	Reviewed LEOP and incorporated pertinent information into this plan.
Dun & Bradstreet Business Population Report	Utilized information from the report to develop a 2006 building inventory, based on 2000 census information.
R.S. Means	Utilized to determine building replacement estimates.
Nebraska Department of Correctional Services (NDCS)	Obtained information regarding prison inventory.
Nebraska Department of Health and Human Services (NDHHS)	Obtained information regarding elderly facilities in the P-MRNRD
Nebraska Game and Parks Commission (NGPC)	Provided information regarding threatened and endangered species and disease outbreak among wildlife populations.
Nebraska State Historical Society	Obtained information regarding historic structures in the P-MRNRD.
Nebraska Department of Agriculture (NDA)	Provided livestock disease data
National Agricultural Statistics Service (NASS)	Provided information on land, livestock, and crop value in the planning area
2007 Census of Agriculture	Provided information regarding livestock value and county rankings.
University of Nebraska – Lincoln – Institute of Agriculture and Natural Resources (UNL-IANR)	Researched information on crop disease outbreak, earthquakes and earthquake history in Nebraska

Planning Mechanism	Description of Use
U.S. Department of Agriculture (USDA)	Provided crop insurance data for planning area.
University of Nebraska Cooperative Extension	Obtained information regarding crop pests and disease for the planning area.
Nebraska Forest Service	Provided information in wildfire history within the planning area and data on Emerald Ash Borer.
Stanford University's National Performance of Dams Program	Researched information regarding dam failures in the P-MRNRD.
"Earthquakes in Nebraska", Raymond R. Burchett, et al	Obtained information regarding earthquakes in the planning area.
U.S. Nuclear Regulatory Commission	Obtained information regarding Nebraska fault lines.
U.S. Geological Survey (USGS)	Researched information regarding earthquakes and incorporated any pertinent information into this plan.
U.S. Army Corps of Engineers (USACE)	Obtained information on dams and levees, as applicable, to include in this plan. Utilized structural inventory data from 2006 plan.
National Flood Insurance Program (NFIP)	Acquired floodplain boundaries and flood hazards for the planning area to incorporate into this plan.
Flood Insurance Studies (FIS)	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Tekamah	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Dakota County	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Dakota City	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Homer	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of South Sioux City	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Douglas County Unincorporated and Incorporated	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Bennington	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Boys Town	Incorporated information regarding flooding and flood hazards into this plan, where applicable.

Planning Mechanism	Description of Use
City of Omaha	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Ralston	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Valley	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Waterloo	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Sarpy County Unincorporated and Incorporated	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Bellevue	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Gretna	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of La Vista	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Papillion	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Springfield	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Thurston County Unincorporated and Incorporated	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Walthill	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Town of Winnebago	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Washington County	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
Village of Arlington	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Blair	Incorporated information regarding flooding and flood hazards into this plan, where applicable.
City of Fort Calhoun	Incorporated information regarding flooding and flood hazards into this plan, where applicable.

Planning Mechanism	Description of Use
Natural Resources Conservation Service (NRCS)	Obtained information regarding flood damages.
“So You Live Behind a Levee”, FEMA	Obtained information regarding how to analyze levee failure in the planning area.
“Midwest Flood Information on the Performance, Effects, and Control of Levees”, U.S. Government Accountability Office. August 1995	Obtained information regarding the performance of USACE levees during the 1993 midwest flood event.
American Meteorological Society	Provided data on freezing rain events in the planning area
National Weather Service (NWS)	Obtained information regarding hazard events.
National Weather Service Forecast Office , Omaha and Valley	Obtained information regarding 2009 to 2010 snowfall event.
“What is a Benefit?: Guidance on Benefit-Cost Analysis of Hazard Mitigation Project”, June 2009, FEMA	Utilized to determine loss of use estimates.
City-data.com	Provided data on mobile homes located in the planning area
Tekamah Flood Study (1999)	Reviewed document and utilized relevant information in this plan.
Energy Information Association	Incorporated information into this plan regarding pipelines.
City-data.com	Provided data on mobile homes located in the planning area
Emergency Action Plans for dams	Prepared and reviewed EAPs and incorporated pertinent information into this plan.
Washington County Comprehensive Plan	Incorporated future development data into this plan
City of Bellevue Comprehensive Plan	Incorporated future development data into this plan
South Sioux City Comprehensive Plan	Incorporated future development data into this plan
Fort Calhoun Existing and Future Land Use Maps	Incorporated future development data into this plan
City of Blair Zoning Maps	Incorporated future development data into this plan
Douglas County Existing and Concept Land Use Maps	Incorporated future development data into this plan
City of Gretna Comprehensive Plan	Incorporated future development data into this plan
City of Gretna Zoning Maps	Incorporated future development data into this plan
City of La Vista Zoning Maps	Incorporated future development data into this plan

Planning Mechanism	Description of Use
Omaha Land Use Element	Incorporated future development data into this plan
City of Omaha Master Plan – Papillion Creek Watershed	Incorporated future development data into this plan
City of Papillion Plan Maps	Incorporated future development data into this plan
City of Ralston Zoning Maps	Incorporated future development data into this plan
Comprehensive Development Plan for Sarpy County	Incorporated future development data into this plan
Southern Sarpy County Sewer Master Plan	Incorporated future development data into this plan
City of Springfield Existing and Future Land Use Maps	Incorporated future development data into this plan
City of Valley Zoning Maps	Incorporated future development data into this plan