Appendix H

North Platte R-I School District
Jurisdiction Specific Information
Prerequisites

This Appendix serves to incorporate North Platte R-I School District into the Regional Multi-Hazard Mitigation Plan in accordance with the requirements of 44 C.F.R. 201.6. It contains all relevant, jurisdiction specific information for North Platte R-I School District. Where applicable, information pertinent to the entire planning area (i.e., regional and hazard profile data, background information, methodologies, etc.) is referenced back to the Regional Multi-Hazard Mitigation Plan by section and page number rather than reproduced in full here. All germane tables and figures contained elsewhere in the Regional Multi-Hazard Mitigation Plan are amended in this Appendix to include information particular to the North Platte R-I School District. For consistency and ease of reference, all tables and figures retain their original titling and number sequencing.

As stated on page P.4, eight participation requirements were established for school districts. These could be accomplished with the same general process as that used for cities and villages by: 1) Participating at county meetings. ***Note: if a school district was not able to attend the county meetings, this participation component could be met by working directly with MARC staff and their county planning team representative. In these cases, MARC staff met separately with the districts in person or via teleconference to gather the required information. School districts opting for this course of action are noted in Table P.3. 2) Completion of a MARC-developed survey of hazards and capabilities. 3) Development of mitigation goals and actions. No school districts participated in the 2004 Plan; therefore, were not required to provide updates on the status of previous mitigation goals and actions. Listed below are the eight corresponding participation requirements:

1.) Attended meetings or separate work sessions (see above ***Note)
2.) Submitted inventory of existing plans relevant to hazard mitigation.
3.) Submitted list of hazards that affect the jurisdiction.
4.) Developed goals.
5.) Developed mitigation actions with an analysis/explanation of why those actions were selected.
6.) Prioritized actions, emphasizing relative cost-effectiveness.
7.) Reviewed and commented on draft plan.
8.) Hosted opportunities for public involvement (e.g., linking local Internet presence to a plan Web site).

<table>
<thead>
<tr>
<th>District</th>
<th>Participation Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Platte R-I School District</td>
<td>***X X X X X X X X</td>
</tr>
</tbody>
</table>

***Note: Attended separate work session as described above
As seen above, North Platte R-I School District has satisfactorily completed all participation requirements. The first requirement, to attend meetings or work sessions, was accomplished through a series of conference calls with school district officials, MARC Staff and appropriate Planning Team representatives. Table 1.1 below lists the dates these meetings were held along with their purpose. The North Platte R-I School District resolution adopting the *Regional Multi-Hazard Mitigation Plan* will be signed pending approval of this Appendix.

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Purpose of Meeting</th>
<th>Attendees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro and Information</td>
<td>8/05/10</td>
<td>Provide introduction, background, information and requirements regarding the planning process.</td>
<td>North Platte R-I School District Representative, MARC</td>
</tr>
<tr>
<td>Mitigation Strategy Development</td>
<td>8/11/10</td>
<td>Review and discussion of mitigation strategy for incorporation into the plan.</td>
<td>North Platte R-I School District Representative, MARC</td>
</tr>
</tbody>
</table>

**Section H.1: Introduction and Planning Process**

The North Platte R-I is located in Platte County within the identified planning area of the *Regional Multi-Hazard Mitigation Plan*. The School District consists of three attendance centers across three jurisdictions – a high school located in Dearborn, Mo.; an intermediate school located in Edgerton, Mo.; and an Elementary school located in Camden Point, Mo. A total of 642 students are served in the district. A map of the district boundaries is included in Attachment 1. The inclusion of the North Platte R-I School District into the *Regional Multi-Hazard Mitigation Plan* planning process followed and is consistent with the processes outlined in Section 1, pages 1.1 – 1.13 and with FEMA’s *Local Multi-Hazard Mitigation Planning Guidance*. The North Platte R-I School District made application to join the *Regional Multi-Hazard Mitigation Plan* directly to MARC who forwarded the request on their behalf to the Planning Team. The Planning Team, via email correspondence, approved North Platte R-I School District’s request. The School District then worked closely with MARC and Planning Team representatives to complete and submit the required information.

**H.1.1 Review and Incorporation of Existing Plans**

Table 1.4 below describes how existing plans, studies, reports and technical documents for North Platte R-I School District were reviewed and integrated in the planning process as discussed in Section 1.3.4, pg. 1.7.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>North Platte R-I</td>
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<td>✓</td>
<td>✓</td>
<td>N</td>
<td>✓</td>
<td>N/A</td>
<td>N</td>
<td>N</td>
<td>✓</td>
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</table>
Section H.2: Regional Profile and Capabilities

The North Platte R-I School District is located within the planning area profile discussed in Section 2, pgs. 2.1 – 2.99; the information contained there remains applicable. The following jurisdiction specific information regarding local capabilities for North Platte R-I School District is added to that already contained within Section 2.6, pgs. 2.81, 2.84 and 2.87.

School District Capabilities

1.) Conducted on-going hazard and risk reduction drills and training.

2.) Installed surveillance equipment throughout all District buildings.

3.) Created safety sub-committee to provide community feedback and conduct biennial walkthrough of District facilities.

Section H.3: Risk Assessment

This portion of the plan contains detailed analyses of each of the eight natural and four technological hazards that may potentially affect the Kansas City area. These hazards include tornadoes and severe thunderstorms, riverine and flash floods, severe winter weather, drought, heat waves, earthquakes, dam failures, wildland fires, hazardous materials incidents, emerging infectious disease, civil disorder and mass transportation accidents. Levee failure was also considered for this update. However, due to data limitations, levee failure analysis is discussed under section 3.2.2 Riverine and Flash Floods. Information specific to each hazard found in this section includes:

- The probable location of hazards or the areas that may be affected by them
- The severity and magnitude of hazard events
- The probability of future hazard events
- Historical occurrences of hazard events in the region

Many sources were researched for data and information relating to hazards in the Kansas City metropolitan area. Principal sources of all-hazard information included FEMA and SEMA. The National Climate Data Center (NCDC), National Oceanic and Atmospheric Administration (NOAA) and National Weather Service (NWS) were primary sources of information and statistics on weather and/or climate-related hazards. The U.S. Geological Survey (USGS), Center for Earthquake Research and Information (CERI) and the Central United States Earthquake Consortium (CUSEC) were major sources for information on earthquakes and seismic activity in the Midwest and the Kansas City region. The primary sources of information on dams and dam safety were the Missouri Department of Natural Resources (MDNR) Dam Safety Division and the U.S. Army Corps of Engineers’ (USACE) National Inventory of Dams (NID). SEMA and the Missouri Department of Conservation (MDC) were major sources of fire information related to the Kansas City metropolitan area. Other sources of information included MARC, particularly its Research Services Department; city and county Web sites and officials; existing county, regional and state plans, reports and documents; newspaper and news organization Web sites, articles and accounts of natural disasters; other state and federal agencies, such as the U.S. Census Bureau and
Missouri Census Data Center (MCDC); and colleges and universities, especially the University of Missouri and University of Missouri Extension. A bibliography of research sources is contained in Appendix C: Maps and References.

H.3.1 Identifying Hazards

As part of the MARC-developed survey, participants were asked to evaluate (or re-evaluate) hazards affecting their jurisdictions, noting the overall risk each hazard posed to their governance. Table 3.2 identifies which hazards affect the North Platte R-I School District. An “X” indicates the jurisdiction is affected by the hazard; an N/A indicates the hazard is not applicable.

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Tornado</th>
<th>Floods</th>
<th>Winter Weather</th>
<th>Drought</th>
<th>Heat Wave</th>
<th>Earthquake</th>
<th>Dam Failures</th>
<th>Wildland Fire</th>
<th>HAZMAT Incident</th>
<th>Emerging Infectious Disease</th>
<th>Civil Disorder</th>
<th>Mass Trans Accidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Platte R-I</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

H.3.1.1 Hazard Analysis Summary

See Section 3.1.1, pgs. 3.5 – 3.15, Tables 3.3 – 3.7 for a summary analysis of each of the 12 hazards, detailed in this Plan, that can potentially affect Cass, Clay, Jackson, Platte and Ray counties and briefly describes (1) magnitude; (2) severity; (3) probability of occurrence; and (4) overall risk to the county.

H.3.2 Hazard Profiles

See Section 3.2, pgs. 3.16 – 3.240 for Hazard Profiles of Tornado, Floods, Winter Weather, Drought, Heat Wave, Earthquake, Dam Failures, Wildland Fire, HAZMAT Incident, Emerging Infectious Disease, Civil Disorder and Mass Transportation Accidents. North Platte R-I School District is included within the profiled areas.

H.3.3 Vulnerability Assessment

“Vulnerability” describes an asset’s level of exposure or susceptibility to damage from hazards. The vulnerability of an asset — such as residential and commercial property, critical facilities or infrastructure — depends on a variety of factors, including its construction, contents and/or economic value of its functions. Overall vulnerability is synonymous with overall risk discussed in Section 3.1, pg. 3.2, and calculated according to the methodologies outlined therein (reproduced below).

To determine overall risk, two factors were considered: probability of an event occurring and severity of that event. Probability was drawn from historic occurrences and rated Low, Medium or High. These ratings were defined as:
• Low — The hazard has little or no chance of happening (Less than 1 percent chance of occurrence in any given year).
• Medium — The hazard has a reasonable probability of occurring (Between 1 and 10 percent chance of occurrence in any given year).
• High — The probability is considered sufficiently high to assume that the event will occur (Between 10 and 100 percent chance of occurrence in any given year).

Severity was determined as the potential number of deaths, injuries, or amount of damage (property or environmental) that could result from the hazard. When calculating severity, jurisdictions took into account the likely locations for each hazard. These were also ranked Low, Medium and High, defined as:

• Low — Few or minor damage or injuries are likely.
• Medium — Injuries to personnel and damage to property and the environment is expected.
• High — Deaths and major injuries and damage will likely occur.

Overall risk was then calculated by averaging probability with severity. Simple numeric values were assigned to the rankings of Low, Medium or High, i.e., Low = 1, Medium = 2, High = 3 for ease of calculation. For example, if a tornado has a high probability (High = 3) of occurring with a high severity (High = 3), then the overall risk is High \((3 + 3/2 = 3 = \text{High})\). However, if a town has a high probability of flooding, but due to mitigation measures only a low severity, then the overall risk is Medium \((3 + 1/2 = 2 = \text{Medium})\). Based on the assumption that it was better to overestimate risk rather than underestimate it, all fractions were rounded up to the next whole number. Figure 3.1 graphically depicts this algorithm.

![Figure 3.1: Overall Risk](image)

Table 3.32 lists the vulnerability assessments for Belton and North Platte R-I School District.

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>HAZARD</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Tornado</td>
</tr>
</tbody>
</table>

TABLE 3.32: VULNERABILITY ASSESSMENT (OVERVIEW, Amended)
Potential Loss Estimates

Potential minimum and maximum loss estimates at the county level are discussed in Section 3.3.3, pg. 3.26. Potential Loss Estimates by Jurisdiction are found in Section 3.3.3a, pg. 3.250. This section attempts to quantify potential monetary loss from area-specific hazards (flooding, earthquake, dam failure, wildland fire) based on building valuations in the hazard area. For a full explanation of the methodology used to calculate the potential loss, see Section 3.3.3a. The potential loss calculation uses building counts derived from the HAZUS-MH software. For an explanation of how these counts were achieved, see Section 2.5.1 pg. 2.73. Table 2.11 shows the building count information for the cities of Dearborn, Edgerton and Camden Point. North Platte R-I School District is located within these city boundaries and also extends into the unincorporated portions of Northern Platte County; district facilities are included under the “Education” category in Table 2.11. Tables 3.71 – 3.74 contain the loss estimates for the City of Belton and the City of Smithville. Loss estimates for North Platte R-I School District are accounted for under the City of Smithville’s “Education” category. Since Dearborn, Edgerton and Camden Point did not participate in this update, loss estimates could not be calculated for the other remaining seven categories, as these calculations rely on jurisdiction-specific risk analysis.

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Agriculture</th>
<th>Commercial</th>
<th>Healthcare</th>
<th>Education</th>
<th>Gov’t</th>
<th>Industry</th>
<th>Religion</th>
<th>Residential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dearborn</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>158</td>
</tr>
<tr>
<td>Edgerton</td>
<td>2</td>
<td>14</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>318</td>
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<tr>
<td>Camden Point</td>
<td>3</td>
<td>10</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td>305</td>
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</table>
### TABLE 3.71: JURISDICTIONAL LOSS ESTIMATES BY BUILDING DAMAGE COUNT AND DOLLAR LOSS (000’s of $) FOR FLOODING \(\text{\textit{(Amended)}}\)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Overall Vuln</th>
<th>Agriculture</th>
<th>Commercial</th>
<th>Healthcare</th>
<th>Education*</th>
<th>Government</th>
<th>Industry</th>
<th>Religion</th>
<th>Residential</th>
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<tbody>
<tr>
<td></td>
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<td>Loss Est.</td>
<td>Bldg Dmg Ct</td>
<td>Loss Est.</td>
<td>Bldg Dmg Ct</td>
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<td>UNK</td>
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<td>UNK</td>
<td>0.075</td>
<td>$39</td>
<td>UNK</td>
<td>UNK</td>
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<tr>
<td>Camden Point</td>
<td>M</td>
<td>UNK</td>
<td>UNK</td>
<td>UNK</td>
<td>UNK</td>
<td>0.075</td>
<td>$39</td>
<td>UNK</td>
<td>UNK</td>
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</table>

### TABLE 3.72: JURISDICTIONAL LOSS ESTIMATES BY BUILDING DAMAGE COUNT AND DOLLAR LOSS (000’s of $) FOR EARTHQUAKE \(\text{\textit{(Amended)}}\)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Overall Vuln</th>
<th>Agriculture</th>
<th>Commercial</th>
<th>Healthcare</th>
<th>Education*</th>
<th>Government</th>
<th>Industry</th>
<th>Religion</th>
<th>Residential</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bldg Dmg Ct</td>
<td>Loss Est.</td>
<td>Bldg Dmg Ct</td>
<td>Loss Est.</td>
<td>Bldg Dmg Ct</td>
<td>Loss Est.</td>
<td>Bldg Dmg Ct</td>
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<tr>
<td>Edgerton</td>
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<td>UNK</td>
<td>UNK</td>
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<td>0.05</td>
<td>$26</td>
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<td>Camden Point</td>
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### TABLE 3.73: JURISDICTIONAL LOSS ESTIMATES BY BUILDING DAMAGE COUNT AND DOLLAR LOSS (000’s of $) FOR DAM FAILURES \(\text{\textit{(Amended)}}\)

<table>
<thead>
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<th>Jurisdiction</th>
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<td>Bldg Dmg Ct</td>
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<td>UNK</td>
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<td>UNK</td>
<td>UNK</td>
<td>UNK</td>
<td>0.05</td>
<td>$26</td>
<td>UNK</td>
<td>UNK</td>
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<td>UNK</td>
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<td>$26</td>
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<td>Jurisdiction</td>
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<td>Agriculture</td>
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<td>Education*</td>
<td>Government</td>
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<td>Religion</td>
<td>Residential</td>
</tr>
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<td>$26</td>
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<tr>
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</table>
Section H.4: Mitigation Strategy

H. 4.1. North Platte R-I School District
Mitigation Strategy

As stated previously, no school districts adopted the 2004 plan, and were therefore not required to address the goals and actions outlined above. Instead, school districts developed mitigation strategy narratives based on threats specific to their district. Below is North Platte R-I School District’s mitigation strategy.

A. Local Hazard Mitigation Goals

The North Platte R-I school superintendent (safety coordinator) in consultation with the building principals, safety sub-committee and school resource officer (SRO) identified hazards and risks that are of concern in the school district. The district used this data to establish the following goal:

➢ Goal: Improve student safety from natural and man-made hazards.

B. Analysis of Mitigation Actions

The North Platte R-I School District wants to improve hazard mitigation. We are in the infancy stages of developing actions that will minimize identified hazards and risks. Ongoing meetings with the administration, safety sub-committee and SRO have identified weaknesses, allowing us to establish a strategic plan and determine a course of action for improvement. These actions are a culmination of these meetings.

C. Implementation of Mitigation Actions

The North Platte R-I School District has identified the following mitigation actions that will aid in improving student safety.

Action 1. Tornado Safety and Awareness

Implementation Procedure
- Construction of a school community safe room
- Include tornado safety and awareness procedures in curriculum.
- Conduct additional tornado safety and awareness drills
- Invite guest speakers on tornado safety and awareness

Cost/Benefit Analysis:
The construction of a school community safe room would allow a safe area in the event of severe weather. Currently, there is no community safe room within the city limits of Edgerton. The student and staff population of 175 do not have tornado or storm protection at this location. A new tornado safe room would help mitigate this problem. This room could be beneficial to the community as well during a storm related event. The proposed North Platte R-I School District Intermediate School Community Safe Room follow the goals identified in the Multi-Hazard Mitigation Plan.

According to the National Climatic Data Center, Platte County has experienced five tornadoes since 1993, totaling an estimated damage of $34.3 million. Of these, one tornado was reported as an F-4 and the other
an F-3. Additionally, there were 39 incidences of thunderstorms since 1950 with reported winds over 60 knots causing $426,000 in damage.

**Responsible Agency:** North Platte R-I School District Superintendent and Board of Education  
**Plan Goal Addressed:** Improve student safety from natural and man-made hazards  
**Timeline:** Immediate  
**Target Capacity:** 453  
**Estimated Cost:** $519,777  
**Funding:** School District, Federal Grant  
**Priority:** High

**Action 2. Establish and communicate an effective crisis management plan.**

Ideas for Implementation

- Maintain the safety sub-committee, superintendent, community members, SRO, building administrators, and other certified staff member.
- Create a school safety coordinator position.
- Revise the existing site-based crisis management plan to improve ease of use. Revise quick reference flip-chart to include creation of a crisis management manual.

**Cost/Benefit Analysis:**
The development of a site-based plan will result in a user-friendly approach that will adequately serve the needs of our district and will effectively utilize existing resources.

**Responsible Agency:** North Platte R-I School District Superintendent and Board of Education  
**Plan Goal Addressed:** Improve student safety from natural and man-made hazards.  
**Timeline:** Immediate  
**Estimated Cost:** $2,000  
**Funding:** School District  
**Priority:** High

**H.4. 2 Implementation of the National Flood Insurance Program (NFIP)**

Not applicable for North Platte R-I School District. Flood hazard boundary maps for the school district are found in Attachment 2.

**Section H.5: Plan Maintenance**

**Section H.5.1 Monitoring, Evaluating and Updating the Plan**

Accomplished in accordance with the procedures outlined in Section 5.1, pgs. 5.1 – 5.3.

**Section H.5.2 Incorporation into Existing Planning Mechanisms**

Throughout the planning process information for each hazard risk assessment was requested from and provided to each jurisdiction. Utilizing this two-way approach, participating jurisdictions helped form the
risk assessment section while at the same time incorporating information from it into their own local planning mechanisms. For more information, see section 5.2, pg. 5.4
ATTACHMENT 1: NORTH PLATTE R-I SCHOOL DISTRICT BOUNDARY
ATTACHMENT 2: NORTH PLATTE R-I SCHOOL DISTRICT FLOOD HAZARD BOUNDARIES

Figure H.1a: North Platte R-I School District (Dearborn) Flood Hazard Boundary Map
Figure H.1b: North Platte R-I School District (Edgerton) Flood Hazard Boundary Map
Figure H.1c: North Platte R-I School District (Camden Pt) Flood Hazard Boundary Map