

Morrison County



Hazard Mitigation Plan

2007-2012

Final



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1.0 PURPOSE AND INTRODUCTION

1.1 Purpose

This plan is intended to reduce the threat of natural, human induced and technological hazards through the assessment of these hazards and through the development of an action plan specifying goals, objectives, and strategies. Through this advanced planning, Morrison County will continue to be leader in ensuring the safety and public protection of the entire countywide community. The purpose for the creation of this plan is to:

1. Foster communication between cities, townships, businesses, community organizations, public and private facilities, organizations, and similar entities throughout the county
2. Promote sound public policy designed to protect life and property from natural, human caused and technological hazards
3. Develop and implement educational programs to increase public awareness of the risks associated with all hazards
4. Provide for a safer and more enjoyable countywide community

1.2 Background

The Morrison County All Hazard Mitigation Plan was funded through the Pre-Disaster Mitigation (PDM) Program established by the Disaster Mitigation Act of 2000 and through county in-kind contributions. Intended to break the cycle of disaster and rebuild, the Federal Emergency Management Agency (FEMA) program offers financial assistance to local governments to prepare and implement their local all hazard mitigation plans. More information on the PDM program can be found through the Federal Emergency Management Agency, Minnesota Homeland Security and Emergency Management, or the Minnesota Local Planning Assistance Center.

1.3 Definition of Mitigation

Hazard Mitigation is defined as any action taken to eliminate or lessen the risk of natural and human caused or technological hazards to life and property. Mitigation measures might include public education, development of regulations or public policy, structural hazard control or protection projects, altering or retrofitting facilities, acquisition or relocation of structures, or the development of improved or increased warning systems.

1.4 The Planning Process

To assist in the development of the Morrison County Hazard Mitigation Plan, the County secured the assistance of the Region Five Development Commission. While working with two other counties within the Commission's service area, the Region Five Development Commission assisted with all phases of the planning process as outlined within this section. The following timeline provides a narrative overview of each of these phases:

April 2003 through October 2003	Data Collection
October 2003 through February 2004	Public Participation Component
March 2004 through May 2004	Develop Goals, Objectives and Strategies
June 2004 through August 2004	Public Review and County Adoption
August 2004 through October 2004	State and FEMA Review and Adoption

1.4.1 Data Collection

April 2003 through October 2003

The data collection process focused on the examination of existing plans, programs, and policies currently maintained by Morrison. These plans, programs, and policies are further broken down as follows:

Planning Documents Reviewed:

Morrison County Comprehensive Plan
Morrison County Water Plan
Morrison County Emergency Operations Plan
Floodplain Management Handbook for Local Officials
State of Minnesota Hazard Mitigation Plan

Programs Reviewed:

Morrison County Emergency Management Programs
Morrison County National Flood Insurance Program (NFIP) Participation
Morrison County Public Health Programs
Morrison County Sheriff Department Programs
Environmental Programs EPA and MPCA
Minnesota Department of Homeland Security & Emergency Management Programs

Policy Documents Reviewed:

1. Morrison County Land Use Ordinance
2. Morrison County Emergency Operations Plan
3. Morrison County Water Plan

1.4.2 *Public and Local Government Participation Component*
October 2003 through February 2004

Morrison County recognizes the importance of public participation in developing a strong all-hazard mitigation plan. To this extent, Morrison County invited members of the public to participate in two separate occasions during the planning process.

Morrison County Visioning Session #1

Held: December 3, 2003, 6:30 p.m.

Location: Camp Ripley Military Training Facility

Topics: Land Use, Hazard Mitigation (Introduction to Hazard Mitigation Planning/PDM Grant Program, Shoreland Issues, Agriculture & Feedlot Issues, and similar issues

Approximate Attendance: 150 Persons

Morrison County Visioning Session #2

Held: February 19, 2004, 6:30 p.m.

Location: Morrison County Government Center

Topics: Hazard Mitigation (Identification of Hazards & Risk Assessment)

Approximate Attendance: 80 Persons

These meetings included the use of facilitated discussion and workgroups to provide for publicly developed risk assessment and identification of hazards. These risk assessments and identification matrices are presented throughout this plan.

*A comprehensive list of process participants is included in Appendix G of this plan.

Local Government Participation

Prior to the start of the Morrison County All-Hazard Mitigation planning process, local officials from all townships and cities within the County received a copy of the local government official survey. This survey was used to gather local officials' opinions on comprehensive plan related issues within the County as well as hazard mitigation related questions including identification of potential hazards within the county and also risk assessment related questions.

Local officials then participated in a series of meetings held throughout 2003. Every local government within Morrison County directly participated in these meetings through their representation at the meetings by one or more members of their governing body. In these meetings local officials provided opinions and comments related to hazards of concern within their communities as well as the likelihood of the occurrence of those hazards. All information received through the inclusion of local government officials was used to establish the goals and objectives presented within the Morrison County All Hazard Mitigation Plan.

Local Government Meeting Summary:

Participants: (Includes one or more participating member of each Township Board of Supervisors or City Council Members)

Meeting Dates:

June 17, 2003 Participating Governments: Culdrum Township, Darling Township, Green Prairie Township, Parker Township, Flensburg City, Randall City

July 9, 2003 Participating Governments: Belle Prairie Township, Bellevue Township, Buh Township, Little Falls Township, Platte Township, Ripley Township, Little Falls City, Royalton City

July 23, 2003 Participating Governments: Agram Township, Buckman Township, Granite Township, Hillman Township, Lakin Township, Leigh Township, Morrill Township, Mount Morris Township, Pierz Township, Pulaski Township, Richardson Township, Buckman City, Genola City, Harding City, Hillman City, Lastrup City, Pierz City

August 6, 2003 Participating Governments: Cushing Township, Elmdale Township, Motley Township, Rosing Township, Scandia Valley Township, Swan River Township, Swanville Township, Two Rivers Township, Bowlus City, Elmdale City, Motley City, Sobieski City, Swanville City, Upsala City

1.4.3 Development of Goals, Objectives and Strategies (Subcommittee Meeting)
March 2004 through May 2004

Project Identification Process

Local governments throughout Morrison County assisted the County with the identification of specific projects intended to mitigate potential hazards through the project identification process. This process included the following steps:

1. Sending of Hazard Mitigation Project Forms to all townships and cities within the County
2. Identification of projects by local governments and submission of projects to Morrison County
3. Inclusion of hazard mitigation projects within the Morrison County Hazard Mitigation Plan

All projects received through the project identification process are included within section four of this plan including the names of the local government submitting the project as well as project information including potential project costs.

Subcommittee Meeting

Dates: Wednesday, May 19, 2004

Location: Meeting Room #3

Topics: Through the subcommittee meeting the technical advisory team or “Task Force” identified action items to be included within section four of this plan. The composition of the technical advisory team is as follows:

Morrison County Task Force Membership:

Dianne Werkman, Emergency Management Director

Steve Backowski, County Engineer

Roger Kuklock, County Zoning Administrator

Chuck Forss, County Planner

Kirsten Hoese, County Public Health Director

Ann March, County Public Health

City of Little Falls Task Force Membership:

Randy Fossum, Planning Commission Chairperson

Bruce Moller, Planning Commission Member

Doug Stewart, Assistant City Engineer

Renee Schwaler, Task Force Member

Urban Otremba, Council Member

Hub Zyvoloski, Council Member

Jerry Lochner, City Engineer

1.4.4 Drafting and Development

May 2004 through October 2004

In the drafting and development phase, Region Five Development Commission staff prepared the Morrison County Hazard Mitigation Plan public review document with the cooperation of the Morrison County Emergency Management Director and the Morrison County Planning & Zoning Department. The plan was then forwarded onto process participants, local officials, Minnesota Homeland Security and Emergency Management, and the general public for review and comment.

1.4.5 Public Review, County Adoption, State and FEMA Review

October 2004 through March 2005

Copies of the Morrison County Hazard Mitigation Plan document were sent to all local units of government within the County and made available on the Region Five Development Commission and Morrison County Websites. A published notice notifying interested persons of this was published in the official newspaper of the County. An invitation was sent to each of the counties surrounding Morrison County requesting they review and comment on the draft plan. A sample letter can be found in appendix K. Despite this effort to solicit public review, few comments were received. What comments were received resulted in minor changes to the Morrison County Hazard Mitigation Plan document. These minor changes included grammatical changes to some

portions of the plan document. All comments received by FEMA resulted in revision and amendments to this plan.

1.5 Plan Implementation and Maintenance

Paramount to the success of the Morrison County All Hazard Mitigation plan is the commitment of County officials, staff, and the entire countywide community to the implementation of the goals, objectives, and strategies set forth in section 4.0 of this plan. Changes resulting from internal and external forces, coupled with the completion of individual goals, objectives and policies may be cause for revision of this plan. In order to respond to these changes the Morrison County Emergency Management Director will review this plan at least annually to ensure goals, objectives and policies are being met in accordance to the implementation schedule of the plan.

Every five years Morrison County shall update and revise this plan to ensure the plan remains consistent with the overall goal of the plan which is briefly summarized as the mitigation of potential hazards within the County. The Emergency Management Director will bring the local government officials and Task Force Teams identified in section 1.4.3 together as part of this review and revision process. FEMA requires the updated plan be submitted to the State and FEMA every five years for review.

See appendix J for recommended revisions for the plan update.

Implementation of Plans, Programs, and Policies

The implementation schedule of the Morrison County Hazard Mitigation Plan calls for the updating and revision of several County plans, programs, and policies. As this plan is implemented, the Morrison County Emergency Management Director will coordinate these revisions with the persons identified as “Task Leaders” within the implementation schedule of the plan. Plans, programs, and policies to be updated include:

Plans and Policies to be revised as necessary:

Morrison County Comprehensive Plan

Morrison County Water Plan

Morrison County Emergency Operations Plan

City of Randall Comprehensive Plan and Zoning Regulations (if necessary)

City of Motley Comprehensive Plan and Zoning Regulations (if necessary)

City of Royalton Comprehensive Plan and Zoning Regulations (if necessary)

City of Little Falls Comprehensive Plan and Zoning Regulations (if necessary)

City of Pierz Comprehensive Plan and Zoning Regulations (if necessary)

Little Falls Township Comprehensive Plan (if necessary)

Ripley Township Comprehensive Plan (if necessary)

Bellevue Township Comprehensive Plan (if necessary)

Any Other Local Plans & Land Use (Zoning) Regulations Developed

Programs to be revised as necessary:

Morrison County Emergency Management Programs

Morrison County National Flood Insurance Program (NFIP) Participation

Morrison County Public Health Programs

Morrison County Sheriff Department Programs

Ongoing Public Participation

In order to ensure public involvement in future revisions to this plan, Morrison County shall follow a similar procedure, including the memberships of public members on any future Hazard Mitigation Planning Teams and Subcommittees and the regular publishing and updating of information related to the hazard mitigation plan revision process.

Mechanisms that are to be used to ensure ongoing public participation include the following:

- General public membership on future hazard mitigation planning teams and subcommittees
- Posting of the Morrison County Hazard Mitigation Plan on the County Website
- Published notices of all public hazard mitigation related meetings
- Maintain copies of the Morrison County Hazard Mitigation Plan at all libraries and similar public information outlets within the County

Plan Responsibilities

The Morrison County Emergency Management Director is responsible for all monitoring, maintenance, coordination, and implementation of the Morrison County Hazard Mitigation Plan with the ongoing support of the Morrison County Board of Commissioners and Departments. Please direct all inquiries related to this plan or Morrison County Emergency Management to:

Emergency Management Director

Jeff Jelinski

Morrison County Sheriff's Office

213 First Avenue SE

Little Falls, MN 56345

Telephone: 320-632-0195

Fax: 320-632-0179

2.0 COMMUNITY PROFILE

2.1 General Overview

Morrison County is located in central Minnesota. It is approximately 100 miles from each of the three major economic centers in the state; Minneapolis-St. Paul, Duluth-Superior, and Fargo-Moorhead. From a regional perspective, the County is located midway between two of the state's largest regional economic centers, St. Cloud and Brainerd.

Being located in between these metropolitan areas and regional economic centers and on the edge of the northern Minnesota lakes region, Morrison County occupies a strategic location. The lakes region, which starts in the northern portion of the County, has experienced tremendous growth and development pressures over the last ten to twenty years. Within the County there are over 70 lakes and hundreds of miles of rivers and streams that today, provide a wealth of water-based recreational and residential amenities. Agriculture accounts for over 70% of the total acreage of the county.

There are 16 incorporated cities and 30 organized townships in Morrison County. The local units of government range in land area up to 4,287 acres (City of Little Falls) to 51,170 acres (Cushing Township). Generally, the geopolitical boundaries of these local units of government are linear, resulting in square or rectangular shaped jurisdictions.

Overall, Morrison County covers over 737,000 acres or 1,153 square miles. The lakes and rivers in the County cover approximately 20,000 acres with wetlands covering another 195,000 acres. Combined, the surface water features cover approximately 30 percent of the County. Major employers are Genmar Inc including Larson, Crestliner boat factories, Morey's Seafest, Falls Fabricating, Redwood Industries, Bednarek Trucking, United Mailing, Inc. and Camp Ripley. Camp Ripley, Minnesota's National Guard Training facility occupies 53,000 acres of the overall land mass inside the County's boundary. The previous Comprehensive Land Use Plan was adopted in 1989. The County completed a 3rd generation Comprehensive Water Plan in January 2003.

2.2 General County History

Morrison County has a rich history. First the Dacotah and then the Ojibwe Indians lived in the central Minnesota area, where the county straddles the Mississippi River. French and English fur traders and voyageurs traveled through Minnesota from the 1600s to the 1800s. They used the river to transport their goods. The county was named for fur trading brothers, William and Allan Morrison.

The 1800s saw three prominent explorers lead expeditions along the river through what would become Morrison County. Zebulon Montgomery Pike came through in 1805. Winter storms forced him and his men to erect a fort near the mouth of the Swan River.

Governor Lewis B. Cass led his expedition through the area in 1820. Explorer and scientist, Joseph N. Nicollet, created the first accurate map along the river in 1836. Some of the earliest European settlers in the area were missionaries. Methodist missionaries settled temporarily along the Little Elk River in 1838. The Reverend Frederick and Elizabeth (Taylor) Ayer moved to the Belle Prairie area in 1849. They started a mission and school there for the Ojibwe. Father Francis Xavier Pierz came to the area in 1852 and started many communities in central Minnesota, including Sobieski and Rich Prairie (later renamed Pierz) in Morrison County.

The event that prodded further development of the county was the building of Fort Ripley. In order to build this military outpost, a dam and sawmill were erected in 1849 by the Little Falls Mill and Land Company. This company was formed by James Green, Allan Morrison, Henry M. Rice, John Irvine, John Blair Smith Todd, and Napoleon Jackson Tecumseh Dana.

Little Falls, the county seat, sprung up when a second dam was built by the Little Falls Company (later called the Little Falls Manufacturing Company). The village was officially incorporated in 1879.

All of this activity occurred before the county was formed in 1856. Minnesota became a state in 1858.

The history continues and includes such figures as Chief Hole-in-the-Day I and II, Nathan Richardson, Pamela and James Fergus, Clarence B. Buckman, Charles A. and Maud Moon Weyerhaeuser, Richard D. and Sarah Musser, congressman C. A. Lindbergh and his son, the aviator, Charles A. Lindbergh, Jr. and many others.

2.3 Local Government Information

The following is a list of local governments located within Morrison County. Local governments participated in the hazard mitigation planning process at various levels including direct participation in committee meetings and planning functions or simply through the identification of local projects and the signing of a Resolution showing their support of the planning process. Below is an inventory of cities showing their support of the Morrison County Hazard Mitigation Plan through the adoption of a local resolution. These resolutions are located within the appendices of this plan.

CITIES

Bowlus City
 Buckman City
 Elmdale City
 Flensburg City
 Genola City
 Harding City
 Hillman City

TOWNSHIPS

Agram	Motley
Belle Prairie	Mount Morris
Bellevue	Parker
Buckman	Pierz
Buh	Pike Creek
Culdrum	Platte
Cushing	Pulaski

Lastrup City	Darling	Richardson
Little Falls City	Elmdale	Ripley
Pierz City	Granite	Rosing
Randall City	Green Prairie	Scandia Valley
Royalton City	Hillman	Swan River
Sobieski City	Lakin	Swanville
Swanville City	Leigh	Two Rivers
Upsala City	Little Falls	
Motley City	Morrill	

2.4 Physical Characteristics

2.4.1 *Climate and Precipitation*

Climate

Short, warm summers and cold, dry winters typify the climate of Minnesota and Morrison County. Summer temperatures in the County average 68 degrees F, with an average daily maximum temperature of 81 degrees. The highest recorded temperature, which occurred in Little Falls on August 18, 1976, was 101 degrees.

The average winter temperature is 12 degrees F with an average daily minimum temperature of 1 degree. The lowest temperature on record, -41 degrees, was recorded on January 9, 1977. The frost-free period is approximately 136 days.

Precipitation

The normal annual precipitation received in the County from the years 1961 to 1990 ranges from 27 to 28 inches. About two-thirds of precipitation, or 17 to 18 inches, is received during the growing season from May to September. In the drought year of 1987, only 17.5 inches of precipitation fell the entire year, with only 13 inches during the growing season. More recently, in the 1990s, the County has experienced some wetter years.

Long Term Precipitation Patterns

Based on the multiple weather scenarios that the continental climate generates, the norm for climatic conditions in the County, as well as the state, can vary. The term, "normal" is merely a mid-point for fluctuating weather events for a given period of time. Analyzing precipitation patterns over a longer period of time is important to wise water planning and management. The lowest annual precipitation total recorded over the 161-year period was 10.21 inches in 1910. Only one year later, precipitation totaled 40.44 inches, the highest on record.

Multi-year periods of similar weather also stand out in the climate record. For example, annual precipitation totals show a distinct drying pattern from the turn of the century through and including the "Dust Bowl" years of the 1930s. Note the relative lack of "wet" years over that period. Beginning in roughly 1940, the precipitation trend takes a ladder-step up to an era of tremendous variation including episodes such as the 1976 drought and the extraordinarily wet period in the mid-1980s.

Over the past ten years, since the 1990 Water Plan was developed, additional gauging stations have been added in the County by the SWCD office. The rain gauges record daily rainfall events. The heaviest 1-day rainfall event reported in the County was 4.70 inches in Little Falls on August 1, 1953.

2.4.2 *Geology*

Bedrock Geology

Morrison County is underlain by relatively simple layers of rock and sediment. Metamorphic and crystalline basement rocks are overlain by weathered rocks and sediment that are in turn overlain by glacial deposits. The stacking of geologic layers reflects the order in which they were formed. The basement rocks were formed over 1.7 billion years ago. The weathered rocks and sediments were deposited on top of the basement rock from 140 to 65 million years ago.

Surficial Geology

Over the last two million years, there have been approximately 20 large-scale southward advances of the Laurentide Ice Sheet. These major glacial advances have been grouped into four stratigraphic units, including the Nebraskan, Kansan, Illinoian and Wisconsinian (listed in order of age from earliest to latest). The most recent advance, the Wisconsinian, has made the most impacts on the watershed in terms of glacial deposits and surface features.

Most of the glacial deposits were deposited over these formations during the Quaternary period less than one million years ago. Morrison County is located in a region where glaciers advanced at least four times during the 60,000 years of the Wisconsin glaciation. Many of the hills and plains that make up the existing landscapes in the watershed are the result of several substages of the Wisconsin glaciation, with the last advance occurring over 9,500 years ago.

2.4.3 *Hydrology*

Groundwater

Earlier in this section, a description of the bedrock and surficial geology of Morrison County was provided. Together, the bedrock and surficial geology create the "container" for groundwater resources to reside in. Hydrogeology is the study of the groundwater

that is located within the spaces, voids, cracks and other openings in the surficial and bedrock geology of a given area. Groundwater volumes, quality, flow directions, water table levels, etc. are major components in the study of hydrogeology.

Generally, groundwater comes directly from precipitation or surface water that infiltrates into the subsurface (below the land surface). Precipitation and surface water infiltrate into the subsurface through an unsaturated surface zone into a saturated zone where spaces between soil and rock particles are completely filled with water. The surface or level separating the unsaturated zone from the saturated zone is called the water table. Water stored in the saturated zone is called groundwater. An aquifer is a geologic formation that is saturated and that transmits large quantities of groundwater.

The ability of the earthen materials that make up the geologic container that stores groundwater varies considerably. Two basic properties are used to analyze the geologic materials include porosity, which is the amount of space within the geologic materials available to store water and permeability, which measures the ease in which water can move through materials. A confining layer is a geologic unit of low permeability and tends to separate or limit groundwater flow.

An unconfined aquifer contains groundwater that is in direct contact with the atmosphere or through the unsaturated zone. These aquifers have no confining layers and are often hydrologically connected with a river and stream. They are most readily recharged by precipitation, but are also particularly vulnerable to direct access of contaminants from the land surface. An aquifer that is completely saturated and is overlain by a confining area is called a confined or artesian aquifer.

Bedrock Aquifers

One of thirteen principal bedrock aquifers in Minnesota is found in Morrison County. Approximately one-fourth of the County in the northwestern quadrant is located in the Proterozoic Aquifer. Wells in this aquifer produce 5 to 70 gallons per minute and are 50 to 400 feet in depth. The rest of the County is underlain by Precambrian age rock consisting of igneous and metamorphic rock. Although these bedrock areas are not considered as having aquifers, wells in these areas can produce 5 to 25 gallons per minute and are generally 30 to 450 feet deep. Figure 2.1 illustrates the generalized locations of bedrock aquifers in the state including the crystalline bedrock aquifers.

Glacial Drift Aquifers

Above the bedrock aquifers, there are substantial aquifers located in the glacial drift. The advance and retreat of glaciers left a series of significant water-bearing deposits in this drift. Glacial drift aquifers are divided into two categories including surficial drift and buried drift aquifers.

Surficial drift aquifers are exposed at the land surface and are found in about one-third of the state. Most of these aquifers consist of sand and gravel deposits called outwash.

Wells in these aquifers are typically at a depth of 30 to 240 feet and produce from 100 to 800 gallons per minute although some wells may exceed 2,000 gallons per minute. These aquifers are a significant source for irrigation, industry, and public water supply systems in Morrison County.

Buried drift aquifers are comprised of sand and gravel deposits like surficial drift aquifers, but lie below confining layers of till, loess or alluvial material. These deposits are due to repeated glaciation and may or may not comprise a confining layer. Most buried drift aquifers are less than 10-feet thick, but can be as much as 100 feet in some areas. In general, groundwater flow is similar to the surficial drift aquifer, however, it has a longer travel path and is less responsive to recharge. Typical yields are 100 to 600 gallons per minute, with up to 1,500 gallons per minute possible in isolated areas. Figure 2.2 illustrates the general locations of glacial drift aquifers in the state.

Figure 2.1 Sedimentary and Crystalline Aquifers

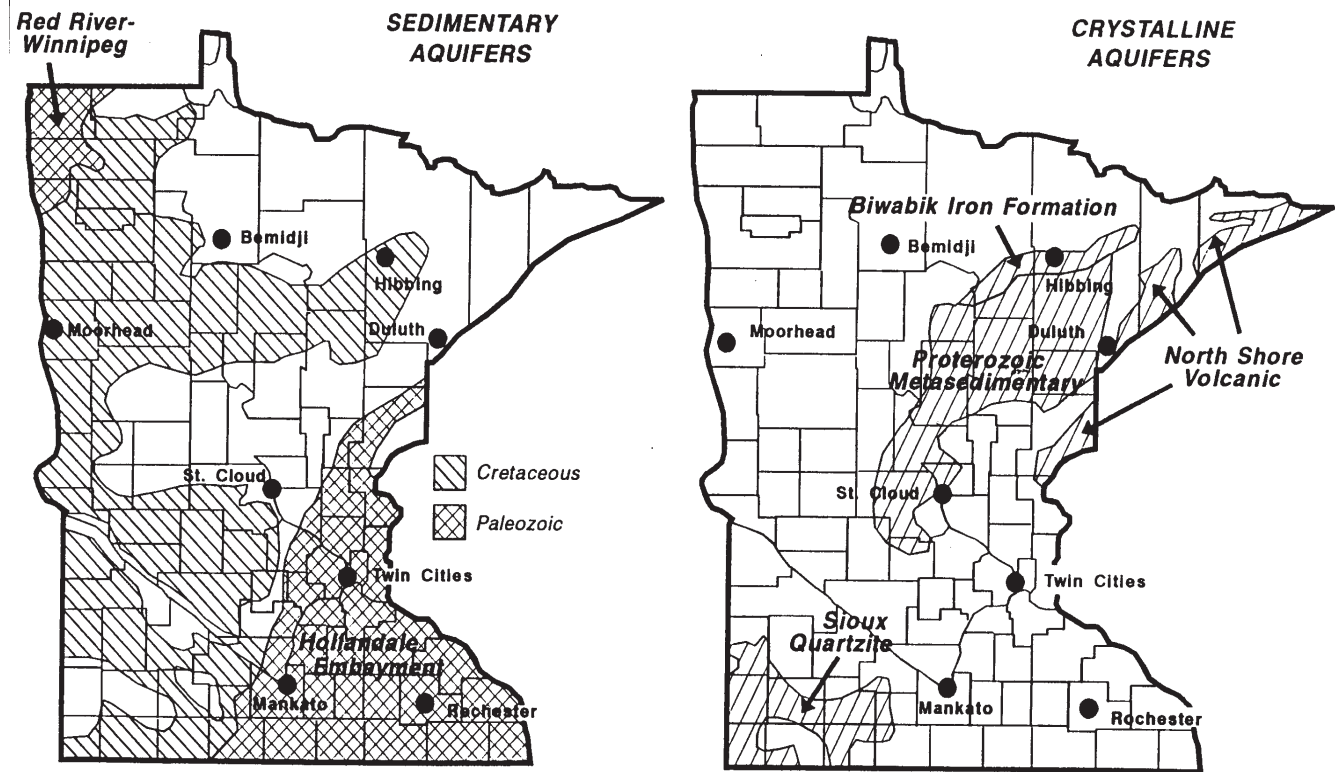
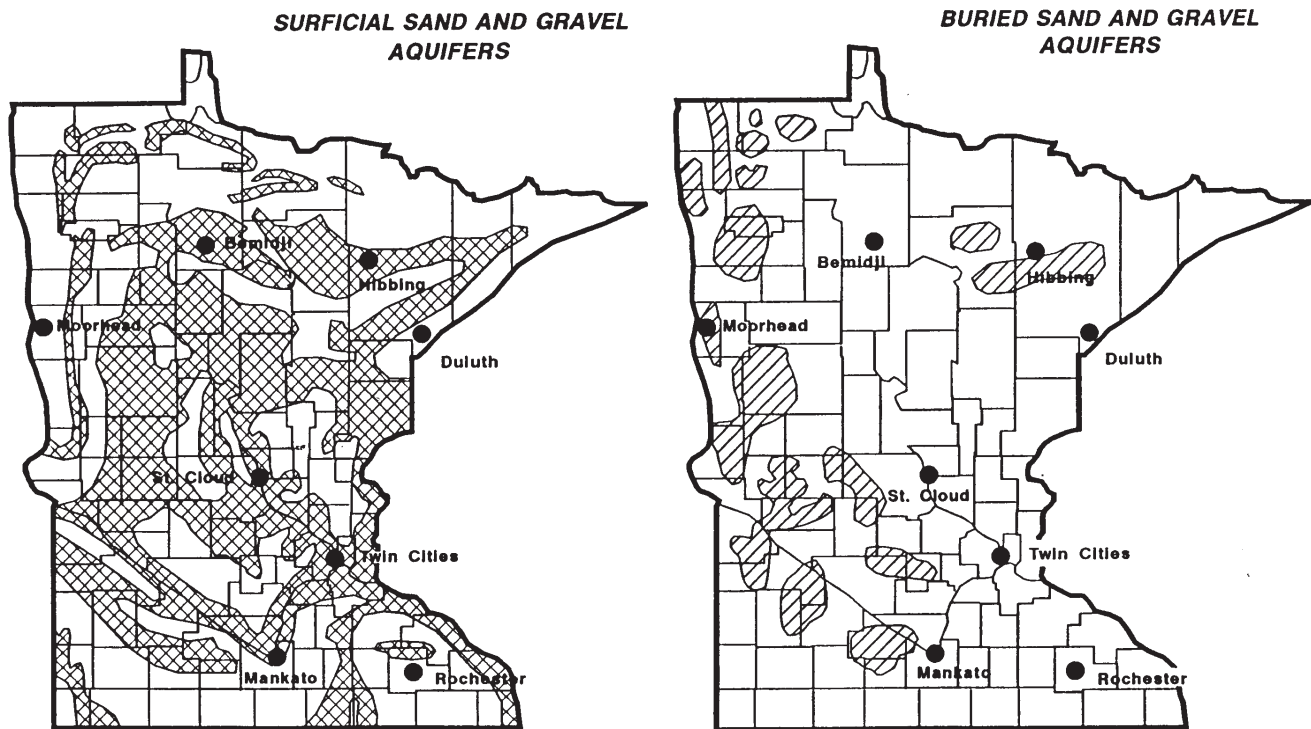


Figure 2.2 Surficial and Buried Sand and Gravel Aquifers



Source: MN DNR, Metropolitan Council

Depth to Groundwater Source

Some of the deepest wells are located in the northwestern corner of the County in the St. Croix moraine area. The wells in this area extend up to 165 feet in depth. A second area with relatively deeper wells is located east and southeast of Little Falls near Highway 27 and County Road 35. The wells in this location extend up to 130 feet in depth.

The majority of the wells in Morrison County are relatively shallow, or less than 30 feet, however in some cases the depth to groundwater ranges up to 165 feet. The shallow wells located throughout the County are primarily used for residential or general agricultural purposes (excluding irrigation). The County Well Index (CWI) provides specific data on the depth to the groundwater source for each well. Approximately 15 percent of the wells in the County have been inventoried in the CWI.

It should be noted that, in addition to availability of aquifers in a given location, another major factor that affects the depth to groundwater source for wells is the particular use of the well. Residential users tend to consume smaller amounts of groundwater and less financial resource so they tend to have shallow wells. In contrast, large volume consumers such as municipal and irrigation users, tend to drill deeper wells to ensure adequate groundwater.

Depth to Water Table

When considering the development of a given piece of land or constructing improvements including septic systems and structures, it is imperative to know what the depth to the water table is. The County Soil Survey contains this information on a generalized basis for the 81 detailed soils units in the County (see Table 16 in the Soil Survey). Water table depths range from 0.5 – 2.0 feet, 1.0 – 3.0, 1.5 – 3.0, 3.0 – 5.0 and greater than 6.0 feet. The Soil Survey also provides information on the typical timeframes for high water table conditions (water table levels fluctuate) and the type of water table including perched conditions. For more localized information on water table levels please refer to the Morrison County Soil Survey.

Groundwater Recharge Areas

Ground and surface water are connected through the processes of recharge and discharge. The amount of recharge is dependent on several factors including climate and precipitation, land use, vegetation, soils, slope, extent and type of confining layers, bedrock type, etc. Further, the recharge of confined aquifers is greatest where unconfined aquifers are present.

Most irrigation and municipal groundwater withdrawals in the County come from surficial aquifers in the sand plain areas where there are limited confining layers and are rapidly recharged. Some of the most intensely used lands, including commercial, industrial and agricultural uses, are also located in these areas of the County. The high

infiltration that supports the recharge of the large capacity aquifers also makes them very susceptible to contamination.

In general, recharge areas in the County include areas with coarse textured soils, gravel pits, wetlands and ponds, lakes and rivers and even road ditches. There has been limited efforts to map the potential recharge areas in the County, especially in the sand plains. Further, the extent of the interconnections between surface water and groundwater in Morrison County is not well understood at this time. Geologic studies such as the County Geologic Atlas project sponsored by the MN DNR and MGS can provide detailed information on the geologic resources.

Groundwater Discharge Areas

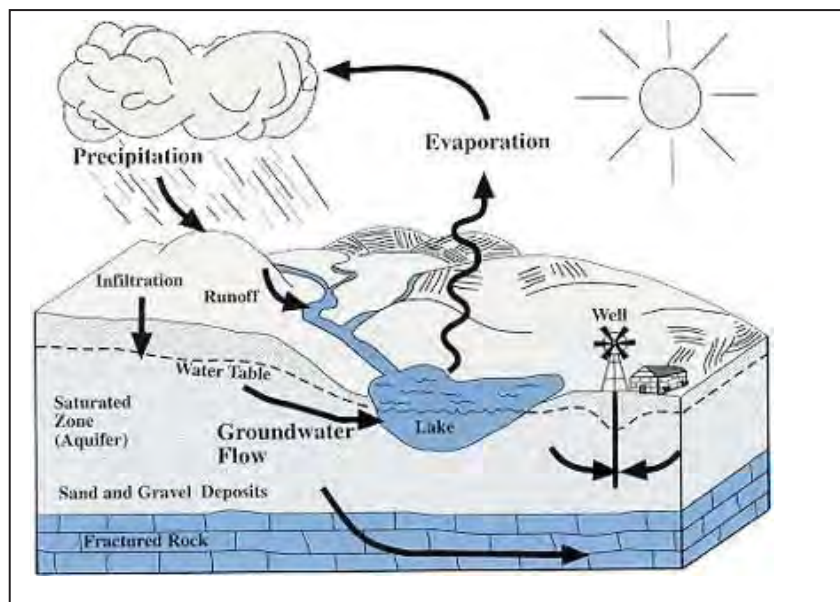
The flow of water in an aquifer generally follows topography or slope, moving from high ground to low lands. In turn, groundwater may also flow into streams and lakes or exit from the subsurface as springs. These areas are referred to as discharge areas.

The Mississippi and Platte rivers, and Rice and Skunk lakes are the main discharge points that are known in the County. Little Rock Creek in the south central part of the County is also spring fed. Like the recharge areas, specifics on discharge areas are not well understood.

The Hydrologic Cycle

The total amount of water in the world does not change. It moves as a liquid, vapor, or solid from oceans to air, air to land, over the land surface or into the ground, and back to the oceans. Figure 2.3 illustrates the water (hydrologic) cycle.

Figure 2.3 Hydrologic Cycle



Ninety-seven percent of the world's fresh water supply is ground water. However, in Minnesota a significant portion of water occurs on the surface. With three continental divides separating surface water flows in the state, Minnesota and its 87 counties truly becomes a headwaters state.

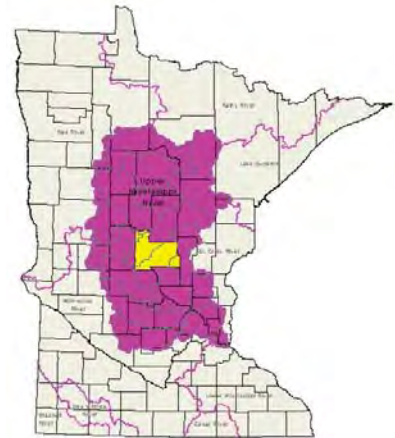
What occurs in the watersheds of Morrison County not only affects the drinking water used by the 30,000 or so citizens of the County, but also hundreds of thousands of other Minnesotans living along the Mississippi River corridor, including St. Cloud and the Twin Cities. These communities draw the majority of their drinking water supplies from the river. Further down the Mississippi, even larger populations depend on the water in the river.

Mississippi River Basin

There are 10 river basins in Minnesota. Morrison County lies entirely within the Upper Mississippi River Basin, as do all of its adjacent counties with the exception of Mille Lacs County, which has a small portion of its eastern border in the St. Croix River Basin.

The Upper Mississippi Basin is the only river basin in Minnesota that is located entirely within the state borders. It covers 20,100 square miles or 12,864,000 acres. There are 15 major watersheds within this basin. Figure 2.4 illustrates the basins in the state and the counties.

Figure 2.4 River Basins



Major Watersheds

Major watersheds are the next unit or area in the hydrologic system or hierarchy. Within the state, there are 81 major watersheds, which make up the 10 river basins.

Within the Upper Mississippi River Basin, there are 15 major watersheds. In Morrison County, there are six (6) major watersheds. The amount of area that each of the six major watersheds covers Morrison County varies considerably. For example, only a very small portion of the Sauk River watershed (6 acres) overlaps the southwestern corner of the County. Small proportions of the Mississippi River – St. Cloud (168 acres), Crow Wing (21,000 acres), and Long Prairie (43,000 acres) major watersheds are also located within Morrison County. In contrast, two major watersheds, the Mississippi River – Brainerd and the Mississippi River – Sartell, cover the vast majority of the County with 250,000 and 360,000 acres respectively. These two major watersheds cover 82.5

Figure 2.5 Major Watersheds



percent of the County. Figure 2.5 shows these major watersheds. A watershed is the area within the geographic boundaries of land that drain into a surface water feature such as a stream, river, or lake and contributes to the recharge of groundwater. Watersheds are divided by areas of higher elevation that cause the drainage patterns of surface water within the watershed. Further, watersheds come in different sizes and shapes. The quantity and quality of the water resources within them, both surface and ground, are influenced greatly by the lands that the water flows through.

Minor Watersheds

To better inventory and assess water features, resource managers have divided major watersheds into minor watersheds. Within the six major watersheds in Morrison County, there are 111 minor watersheds. Most of the minor watersheds do not have a hydrologic code assigned to them by the MN DNR. The following table shows the locations of major and minor watersheds in the County. The following table lists the popular rivers and streams that flow within the major watersheds.

Figure 2.6 Minor Watersheds



Table 2.1
Major Watersheds and Tributaries in Morrison County

Major Watershed	Hydrologic Code	Tributary Rivers and Streams
Crow Wing River	07010106	No significant tributaries
Long Prairie River	07010108	No significant tributaries
Mississippi River – Brainerd	07010104	Fletcher Creek Little Elk Creek Swan River Pike Creek
Mississippi River – Sartell	07010201	Hay Creek Little Two River Two Rivers Hazel Creek Spunk Creek Platte River Skunk River Little Rock River
Mississippi River – St. Cloud	07010203	No significant tributaries
Rum River	07010207	Tibbetts Brook

Source: MNDNR

Protected Waters Inventory

As authorized under Minnesota Statute 103G, the MN DNR has designated and classified all surface water features in Morrison County that meet the state’s requirements. In general, the statute established two classifications for public waters including public water (lakes, rivers, streams and public ditches) and public waters wetlands.

Public waters are all waterbasins and watercourses that meet the criteria set forth in Minnesota Statutes, Section 103G.005, subd. 15. Public waters wetlands include all types 3, 4, and 5 wetlands (as defined in U.S. Fish and Wildlife Service Circular No.39, 1971 ed.) that are 10 acres or more in size in unincorporated areas or 2 ½ acres or more in size in incorporated areas. (See Minnesota Statutes Section 103G.005, subd. 17b, Wetland Type).

Within Morrison County, there are 359 surface water features listed on the Protected Waters Inventory, including basins (lakes), water courses (rivers, streams and ditches), and wetlands. Table 2.2 provides a summary of the number of water features listed in the inventory:

Table 2.2
Protected Waters Inventory

Classifications	Number
Protected water basins (lakes)	97
Protected water courses (rivers, streams, ditches)	70
Protected wetlands	192
Total	359

Source: MN DNR Division of Waters

General Lake Characteristics Inventory

Simply stated, lakes are depressions in the landscape that hold water. Although this definition is fairly obvious, how lakes were formed and how they function naturally is not as apparent or well understood by the general public. Limnology is the scientific study of lakes, reservoirs, rivers and streams. It includes the physical, geological, biological, and chemical aspects that affect a particular freshwater body. There is an extensive body of knowledge on how lakes function and evolve. The sidebar suggests just a few of the many resources available on limnology and lake management. Please also see the resources in the Bibliography and other appendices.

Each lake has its own unique set of environmental factors and conditions that affect the natural functions as well as the lake’s desirability and capacity from a human impact standpoint. Further, lakes are impacted to varying degrees by the surrounding land that drains into a particular lake. A lake inventory represents an initial important step in managing lake resources. Some of the factors included in a lake inventory include size, formation, watershed area, flowage, water quality, etc.

Based on the statewide inventory of lakes, which is known as Bulletin No. 25 that was prepared in 1968 by the Minnesota Conservation Department (known today as the MN DNR), there were 97 lakes and basins 10 acres or larger with banks substantial enough to contain water in Morrison County. Table 2.3 provides a breakdown of the County’s lakes by size.

Table 2.3
Number of Lakes by Acres

Lake Size	Number of Lakes
10 – 25	27
25 – 50	4
50 – 100	1
100 – 200	9
200 – 500	25
500 – 1,000	8
1,000 – 5,000	23
Total	97

Source: MN DNR Division of Waters

Most of the lakes in Morrison County are glacial lakes, formed in the glacial drift or from ice blocks left behind. The County also has two reservoirs that were created on the Mississippi River including Lake Placid and Sylvia Lake. The geologic patterns also created varying areas that drain to each lake. Some lakes, such as Lake Alexander in the northwestern corner of the County, have small watersheds. In contrast, the reservoir lakes have extremely large areas that drain into them.

The Morrison County Water Plan provides a detailed inventory of the major lakes in Morrison County including data on geographic, hydrologic, water quality, and resource management activities of the lakes. Sharing and distributing this information to lake associations, local officials and homeowners can help build greater awareness on how they are impacted by human interaction and activities.

Ordinary High Water

The ordinary high water level is defined according to Minnesota Statutes 103G.005, Subd. 14, as:

The ordinary high water level is an elevation delineating the highest water level that has been maintained for a sufficient period of time to leave evidence upon the landscape, commonly the point where the natural vegetation changes from predominantly aquatic to predominantly terrestrial;

For watercourses, the ordinary high water level is the elevation of the top bank of the channel; and

For reservoirs and flowages, the ordinary high water level is the operating elevation of the normal summer pool.

The MN DNR has established ordinary high water levels (OHWLs) for 22 of Morrison County’s lakes. The levels are equal elevations around the lake and establish where the public water ends and the upland begins. These elevations are important for many applications including shoreland zoning, private property rights and water level management. Table 2.4 provides a summary of the established OHWLs.

Table 2.4
Lakes with Ordinary High Water Levels

Lake Name	Lake Number	OHW Elevation
Alexander	49-0079	1277.0
Bernhart	49-0135	1282.3
Camile	49-0078	1297.6
Cedar	49-0140	1209.33
Crookneck	49-0133	1275.6
Fish Trap	49-0137	1276.8
Green Prairie Fish	49-0035	1141.1
Ham	49-0136	1277.6
Kuhl	49-0269	1197.1
Larson	49-0094	1196.4
Long	49-0015	1260.1
Peavy	49-0005	1276.7
Pierz	49-0024	1107.6
Pine	49-0081	1245.1
Polander	49-0087	98.9
Prowect	49-0098	147.5
Round	49-0056	1213.4
Shamineau	49-0127	1275.1
Sullivan	49-0016	1255.0
Unnamed	49-0220	1113.4
Unnamed	49-0277	151.7
Unnamed	49-0195	1149.0

Source: MN DNR Division of Waters

With approximately one-fourth of the County’s lakes having an established OHWL, the Task Force should consider working with landowners and the MN DNR to establish the OHWL elevations for the remaining lakes in the County.

Lake Classification

Natural Environment Lakes usually have less than 150 total acres, less than 60 acres per mile of shoreline, and less than three dwellings per mile of shoreline. They may have

some winter kill of fish; may have shallow, swampy shoreline; and are less than 15 feet deep.

Recreational Development Lakes usually have between 60 and 225 acres of water per mile of shoreline, between 3 and 25 dwellings per mile of shoreline, and are more than 15 feet deep.

General Development Lakes usually have more than 225 acres of water per mile of shoreline and 25 dwellings per mile of shoreline, and are more than 15 feet deep.

Table 2.5
Number of Lakes by Shoreland Management Classification

Shoreland Zoning Classification	Number of Lakes
Natural Environment	51
Recreational Development	1
General Development	19
Total	71

Source: Morrison County Zoning Ordinance

Rivers and Streams

Stream Flows

Several agencies have monitored stream flows in Morrison County over the last 100 years or more. The USGS maintains an extensive database on its web site for stream flows from information recorded at gauging stations. At least 6 sites have been maintained by the USGS and 2 sites by the MN DNR.

One of the reports available through the USGS website is a list of annual mean streamflows. Data collected from the gauging station on the Mississippi River at Royalton for annual mean flows has been collected for over 75 years and provides an in depth inventory of flows and corresponding precipitation patterns. Some of the highest flows at this site were in 1986, 1997 and 1999. Some of the lowest occurred in 1976 and the early 1930s.

Rivers

Remote Rivers are primarily in roadless, forested, sparsely populated areas in northeast Minnesota.

Forested Rivers are in forested, sparsely to moderately populated areas with some roads in northeast, southwest, and north-central Minnesota.

Transition Rivers are in a mixture of cultivated, pasture, and forested lands.

Agriculture Rivers are in intensively cultivated areas, mainly southern and western areas of the state.

Urban Rivers are in high-density residential, commercial, and industrial development areas.

Tributary Rivers are all other rivers in the Protected (Public) Waters Inventory not classified above.

Table 2.6
Number of Rivers by Shoreland Management Classification

Shoreland Zoning Classification	Number of Rivers
Forested Rivers	3
Transitional Rivers	4
Agricultural/Urban Rivers	4
Tributary Rivers	67
Total	78

Wetlands

In the mid-1800s, there was an estimated 19 million acres of wetland in the State of Minnesota. Today, over one-half of the wetlands have been drained or filled. For many years, wetlands were considered obstacles to growth and progress. Major policy changes at the federal, state, and local levels have been adopted and implemented over the past fifteen years in a concerted effort to protect the remaining wetlands.

Wetlands provide many natural resource benefits. They improve and protect surface and groundwater quality. Wetlands play a key role in a watershed by collecting and storing runoff during storm and snowmelt events, filtering waters before they enter rivers, streams and lakes, and adding diversity of plant and animal life to the area. They serve as holding areas for stormwater when rainfalls are heavy, thereby reducing flood damage. They provide valuable fish and wildlife habitat, which are resources critical to the tourism industry. Wetlands also provide resources for a growing number of commercial purposes including peat mining, sod and vegetable farming, and bait harvesting for fishing. Loss of wetlands and their functions has a significant impact on overall surface and groundwater quality. Today, wetlands are increasingly viewed as resources rather than liabilities or obstacles.

Two wetland classification systems have been developed to define wetland types. In 1956, the U.S. Fish and Wildlife Service developed what became know as the Circular 39 system, a classification of eight wetland types. The eight types range from seasonally flooded areas to inland marshes to forested swamps and bogs. The main difference between the types is the depth of water and variety of vegetation.

A more extensive system, known as the Cowardin classification system, provides a more precise ecological description of wetlands. The Cowardin wetland areas were mapped as a part of the National Wetland Inventory (NWI). Due to extensive amount of information provided with the NWI, the wetland map in this plan is based on the eight types from the

Circular 39 system. Landowners seeking more detail on wetlands can view or obtain copies of the NWI maps from the SWCD or the County Planning and Zoning office.

National Wetland Inventory

Table 2.7 provides an inventory of wetlands in the County based on the National Wetland Inventory. Just over one-fourth of the County’s surface area is covered by wetlands according to this inventory. Additional wetland mapping information is maintained by the SWCD office.

Table 2.7 Wetland Inventory

Wetland Type	Number of Basins	Acres
1 – Seasonally Flooded	1,455	4,158
2 – Wet Meadow	1,311	29,734
3 – Shallow Marsh	10,971	69,421
4 – Deep Marsh	2,020	1,008
5 – Shallow Open Water	1,738	17,601
6 – Shrub Swamp	6,826	50,624
7 – Wooded Swamps	1,962	7,536
8 – Bogs	587	6,454
80 – Industrial/Municipal	11	20
90 – Riverine	37	8,351
		194,907
NWI Wetland Totals	26,918	
98 – Uplands	1,481	554,245
Total	28,399	749,152

Source: LMIC

Floodplains
Floodplain Map

Lands located within floodplains in the County are shown in Appendix Two of this plan. The majority of the flood prone areas in the County are located along the Mississippi River, Little Elk River, Two Rivers, Platte River, Skunk River and Fletcher Creek. Sullivan, Platte and Skunk lakes also have relatively large floodplain areas identified on this map. Since the floodplain map is based on available state data sets, it is therefore more general in nature. These floodplain maps are intended for use as an initial reference document only.

2.4.4 Landform Descriptions

Landform patterns are important because they help to explain the relationship between the land and its underlying features with surface and groundwater resources. For example, groundwater resources are more susceptible in sand plain areas than in till or drift plain areas. The till plains have substantial clay deposits that minimize groundwater infiltration. Therefore, it is useful to consider the landform patterns of a given watershed or geopolitical area.

The primary landform patterns in the County were formed by the most recent geologic activity and include sand plains, moraines, till plains, and drumlins (see the sidebar). The general locations of the landform patterns in the County follow the descriptions below.

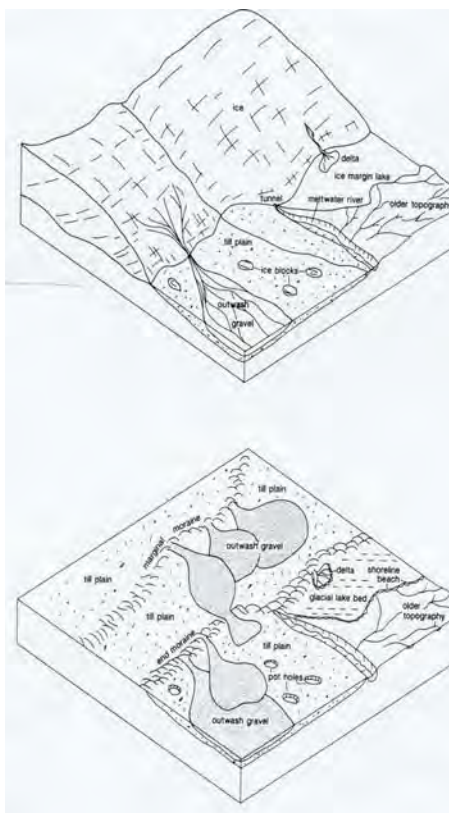
Sand Plains. There are seven different sand plain areas in the County. The sand plains were formed by the sediments deposited in flat level areas from glacier meltwaters. The two largest sand plains include the Mississippi Sand Plain along either side of the river and the Agram Sand Plain in the south central portion of the County. The three largest cities in the County (Little Falls, Pierz and Royalton) are located in these two sand plain areas. To the west of the river are four sand plains, including the Flensburg, Randall, Scandia Valley, and Pillager sand plain areas.

Drumlins Plains. Drumlins are long, narrow mounds of till formed by local glacial action. Two different drumlin fields, the Brainerd and Pierz, cover the majority of the land area east of the Mississippi River. The cities of Buckman, Hillman, Harding and Lastrup are located in the drumlin areas.

Moraines. Moraines are the ridges or piles of till material deposited by glaciers either along its sides (lateral), glacial deposit of till with no marked relief having been transported at the base of the ice (ground), or till deposited by a glacier at the line of its farthest advance (terminal). The steep hills in the northwestern portion of the County were formed by the St. Croix Moraine.

Till Plains. Clay, sand, cobbles and boulders deposited by the glaciers left a landform pattern referred to as a till plain. Much of the southwestern quadrant of the County is referred to as the Holdingford Till Plain and consists rolling to level landscapes.

Landforms and Glacial Action



The upper diagram shows conditions just after an ice lobe ceased to advance.
The lower diagram shows the resulting landforms.

Source: Geology of Minnesota
MN DNR 1995

The Morrison County Soil Survey incorporates a more detailed landform analysis and descriptions for each of the soil map units. See the Morrison County Soils Survey and the Morrison County Water Plan for more information on landforms as defined by the NRCS.

1989 Land Cover

Table 2.8 provides an inventory of the acreages for the various type of land cover inventoried as a part of the statewide effort taken in 1989 and Figure 2.7 illustrates their locations. This data is the most current detailed land use data available.

Table 2.8
1989 Land Cover Inventory

Code	Description	Count	Acres
11	Urban and Industrial	54	7,748
12	Farmsteads and Rural Residences	4,655	10,155
13	Rural Residential Development Complex	111	1,008
14	Other Rural Developments	371	720
21	Cultivated Land	2,967	238,508
23	Transitional Agricultural Land	43	859
31	Grassland	6,047	175,317
32	Grassland-Shrub-Tree (deciduous)	4,174	44,859
33	Grassland-Shrub-Tree (coniferous)	121	1,158
41	Deciduous Forest	11,600	190,681
42	Coniferous Forest	830	5,599
43	Mixed Forest	39	485
50	Water	2,035	17,916
61	Wetlands	2,263	39,743
71	Gravel Pits and Open Mines	128	613
73	Exposed Soil, Sandbars, and Sand Dunes	5	11
80	Unclassified	73	176
	Total	35,516	735,557

Source: LMIC

2.4.5 Topography and Drainage

Elevations

The overall elevation in Morrison County ranges from 1,200 to 1,450 feet above sea level. The highest elevation in Morrison County is approximately 1,450 feet on the St. Croix Moraine in the northwestern corner of the County. The lowest area in the County is located in the south central portion of the County and has an elevation of approximately 1,200 feet.

Topography

The general topography of Morrison County is gently rolling. There are no drastic elevation changes within the county, with the exception of the hills in the northwestern corner. Many hills in this corner rise steeply from nearby lakes to heights of 1,400 feet. The lakes in the northwestern corner of the County have an elevation of approximately 1,250 feet. This area drains to the Long Prairie River at an elevation of 1,220 feet, then to the Crow Wing River at 1,200 feet. Shoreland erosion in these areas is a serious problem. Elevations in Camp Ripley average 1,250 feet.

The central and southern portions of the County tend to be gently rolling to flat with most hillsides being easily cultivated. Some erosion control practices are used. The banks along the Mississippi River and smaller streams are gently to moderately sloped with most banks being less than 20 feet in height. The Mississippi River exits at the County's southern border at an elevation of approximately 1,000 feet above sea level. The County Planning and Zoning Office maintains copies of the USGS maps in both digital and paper formats.

Public Drainage System

There are 24 public ditches within Morrison County. Table 2.9 lists all of the public ditches in the County and their length. Overall, the County maintains jurisdiction over 88 miles of drainage ditches.

Table 2.9
Public Drainage Systems Inventory

Sub. Code	Subwatershed Management Unit	Ditch Name	Twp. Range	Total Miles
1	Northwest Lakes	Ditch #6	133-30	5.0
	Northwest Lakes Total			5.0
2	Little Elk	Henry Ditch	130-29	0.4
2	Little Elk	Ditch No. 1	130-29	3.9
2	Little Elk	Ditch No. 12	131-30	5.9
	Little Elk Total			10.2
3	Fletcher Creek	Ditch No. 5	42-31	4.8
3	Fletcher Creek	Ditch No. 14	41-31	1.7
3	Fletcher Creek	Ditch No. 15	42-31	2.7
	Fletcher Creek Total			9.2
5	Platte River	Ditch No. 2	41-31	2.3
5	Platte River	Ditch No. 9	41-31	4.6
5	Platte River	Ditch No. 16	41-31	4.9
5	Platte River	Branch Ditch No. 1 to Ditch 16	41-31	1.7
5	Platte River	Branch Ditch No. 2 to Ditch 16	41-31	2.5
	Platte River Total			16.0
6	Skunk River	Ditch No. 7	39-31	2.7
	Skunk River Total			2.7
8	Swan River	Ditch No. 8	128-31	5.1
	Swan River Total			5.1
11	Rum River	Ditch No. 3	40-28	4.4
11	Rum River	Ditch No. 11	39-29	4.0
11	Rum River	Ditch No 16	39-29	6.2
11	Rum River	Branch Ditch No. 1 to Ditch 16	39-29	4.4
11	Rum River	Main Ditch No. 18	39-29	6.5
11	Rum River	Branch Ditch No 1 to Ditch 18	39-29	1.9
11	Rum River	Branch Ditch No. 2 to Ditch 18	39-29	3.5
11	Rum River	Ditch No. 21	39-29	3.6
11	Rum River	Ditch No 22	39-29	4.9
11	Rum River	Branch Ditch No. 1 to Ditch 22	39-29	1.2
	Rum River Total			40.6
	Grand Total			88.8

Source: Morrison County Highway Department.

2.5 Facilities

2.5.1 General Facilities

State Parks and Forests

The Charles Lindbergh State Park and Historic Site is located just south of Little Falls on the western bank of the Mississippi River. Pike Creek flows through the park and joins the Mississippi River in the park. Within the park are walking trails, the historic house, a visitor's center, camping, and picnic areas.

There are no state forests in Morrison County.

Municipal and County Recreational Facilities

There are numerous water based recreation facilities in Morrison County. County and major municipal park sites include:

Belle Prairie Park: A 131.5 acre County park located on the Mississippi River just north of Little Falls with public access and picnic grounds.

Swimming Beaches: One small beach is located on the east end of Lake Alexander. A second facility is on Green Prairie Fish Lake near Camp Ripley. Besides the swimming beach there are picnic grounds and public access.

City of Little Falls: A fishing dock is immediately south of the Little Falls Dam; LeBourget Park is on west side of the river; and Maple Island Park.

2.5.2 Emergency Facilities

Emergency facilities listed within this plan include law enforcement, ambulance, fire, emergency shelter and gathering places. This information can be found in the appendices of this plan.

2.5.3 Hazardous Material Facilities

Emergency Response Commission Hazardous Waste Generators

Hazardous wastes include a wide range of household, commercial, industrial products and substances. Some of the more common products that individuals and businesses use include paints, fertilizers, cleaning solvents, acids, lead, heavy metals and other substances. Due to their toxic nature, these products and their containers require special use and disposal.

Businesses that generate, use or store defined amounts of these chemicals or substances are required to register with the MPCA. Figure 2.10 shows hazardous waste generators within the County.

2.11 Hazardous Waste Generators

Generator	Size	Location	Major Watershed
Crestliner Boats Inc.	S	Little Falls	Mississippi River (Brainerd)
St. Gabriels Hospital	S	Little Falls	Mississippi River (Brainerd)
Combined Support Maintenance Shop	S	Camp Ripley	Mississippi River (Brainerd)
Mobilization & Training Equipment Site	S	Camp Ripley	Mississippi River (Brainerd)
Minnesota Nat'l Guard Armory-	S	Camp Ripley	Mississippi River (Brainerd)

Source: MPCA

Notes:

L = Large Quantity Generator - a business or public agency that generates more than 1,000 kg (2,200 pounds) of waste per month.

S = Small Quantity Generator - a business or public agency that generates between 100 and 1,000 kg (220 and 2,200 pounds) of waste per month.

VS = Very Small Quantity Generator - a business or public agency that generates less than 100 kg (220 pounds) of waste per month.

Feedlots and Manure Pits

Feedlots are defined in the Morrison County Zoning Ordinance as a place where manure is generated or stored including but not limited to a confinement barn, manure pack, waste storage facility, or any building, lot or pen where livestock, poultry, or other animals in excess of 50 animal units are confined or the equivalent animal waste is stored.

Based on feedlot inventory completed on January 1, 2002 by the County Feedlot Officer, there were a total of 684 feedlots in Morrison County. These operations combined to a total of 126,666 animal units. It should be noted that there are a large and ever changing number of small feedlots or operations that have less than 50 animal units in the County. The total numbers of feedlots and animal units from these small operations are not included with this inventory. Further, due to the ongoing changes in the farm economy and operations on any given farm in the County, the numbers reflected in the tables change regularly. This inventory reflects the conditions for the time of the inventory.

Pulaski Township has the largest number of feedlots by far, with 178 feedlots. All of these are smaller feedlots, with 50-300 animal units. The township possessing the most feedlots in the 301-650 animal units category is Buckman, at 5 feedlots. Culdrum

Township has the greatest number of feedlots in both the 651-1000 and 1000+ categories with four such feedlots in each category.

Concurrent with the feedlot inventory, the Feedlot Officer completed an inventory of manure pits in the County. There were a total of 347/350 manure pits as of January 1, 2002 with 93 pits not in use at the time of the inventory.

Table 2.11 provides an inventory of the feedlots by township and Table 2.12 lists the manure pits by township. Figure 2.9 illustrates the location of the feedlots and Figure 2.10 shows feedlots located within floodplain areas of the County.

Table 2.11
Feedlot Inventory

Township	# of Feedlots 50-300 A/units	% of Feedlots by Twp	# of Feedlots 301-650 A/units	% of Feedlots by Twp	# of Feedlots 651-1000 A/units	% of Feedlots by Twp	# of Feedlots 1000+ A/units	% of Feedlots by Twp	Total # of Feedlots by Twp	Total Animal Units by Twp
Agram	13	92.9%	1	7.1%	0		0		14	2,556
Belle Prairie	19	90.5%	2	9.5%	0		0		21	4,447
Bellevue	22	95.7%	1	4.3%	0		0		23	3,550
Buckman	55	83.3%	10	15.2%	1		0		66	14,850
Buh	45	86.5%	5	9.6%	2	3.8%	0		52	11,862
Culdrum	35	71.4%	6	12.2%	4	8.2%	4	8.2%	49	16,310
Cushing	8	100.0%	0	0.0%	0		0		8	1,032
Darling	15	75.0%	2	10.0%	1	5.0%	2	10.0%	20	3,864
Elmdale	57	96.6%	2	3.4%	0		0		59	8,120
Granite	47	94.0%	3	6.0%	0		0		50	6,910
Green Prairie	0		0		0		0		0	0
Hillman	8	88.9%	0	0.0%	0		1	11.1%	9	2,867
Lakin	11	100.0%	0	0.0%	0		0		11	1,522
Leigh	6	85.7%	1	14.3%	0		0		7	1,382
Little Falls	8	80.0%	0	0.0%	1	10.0%	1	10.0%	10	3,825
Morrill	24	100.0%	0	0.0%	0		0		24	3,107
Motley	1	50.0%	0	0.0%	1	50.0%	0		2	985
Mount Morris	3	100.0%	0	0.0%	0		0		3	355
Parker	24	85.7%	1	3.6%	3	10.7%	0		28	5,780
Pierz	37	94.9%	2	5.1%	0		0		39	5,615
Pike Creek	21	84.0%	4	16.0%	0		0		25	4,461
Platte	10	90.9%	0	0.0%	1	9.1%	0		11	1,950

Pulaski	178	100.0%	0	0.0%	0	0	0	178	2,089
Rail Prairie	0		0		0	0	0	0	0
Richardson	5	100.0%	0	0.0%	0	0	5	487	
Ripley	11	84.6%	2	15.4%	0	0	13	1,996	
Rosing	0		0		0	0	0	0	0
Scandia Valley	1	100.0%	0	0.0%	0	0	1	60	
Swan River	43	91.5%	4	8.5%	0	0	47	6,558	
Swanville	28	82.4%	5	14.7%	1	2.9%	34	6,252	
Two Rivers	30	96.8%	1	3.2%	0	0	31	3,874	
County Totals	765		52		15	8	840	126,666	

Source: Morrison County Planning and Zoning

Table 2.12
Manure Pit Inventory

Township	Earthen pits	Earthen pits w/ram p	Concrete Pits (Under)	Concrete Pits (Separate d)	Slurry	HDPE lined Earthen pits	Total Number of Pits	Pits in Use	Pits Not in Use
Agram	3	0	0	2	0	0	5	4	1
Belle Prairie	12	0	2	1	0	0	15	9	6
Bellevue	8	0	2	2	0	0	12	9	3
Buckman	21	5	6	1	0	2	35	28	7
Buh	30	0	4	4	2	0	40	33	7
Culdrum	15	0	1	2	1	0	19	12	7
Cushing	2	0	0	0	0	0	2	0	2
Darling	3	0	2	3	0	0	8	7	1
Elmdale	21	3	1	2	2	1	30	21	9
Granite	30	0	0	3	0	0	33	27	6
Green Prairie	0	0	0	0	0	0	0	0	0
Hillman	5	0	4	0	0	0	9	6	3
Lakin	10	0	0	3	0	0	13	8	5
Leigh	3	0	0	0	0	0	3	2	1
Little Falls	1	0	0	3	0	1	5	4	1
Morrill	5	1	0	1	0	0	7	3	3
Motley	0	0	0	0	0	0	0	0	0
Mount Morris	1	0	0	0	0	0	1	0	1
Parker	6	0	2	1		0	8	7	1
Pierz	19	2	0	0	0	0	21	13	8
Pike Creek	11	0	1	2	0	1	15	10	5
Platte	5	0	0	0	0	0	5	2	3
Pulaski	6	0	0	1	0	0	6	6	0
Rail Prairie							0	0	0
Richardson	3	0	0	0	1	0	4	1	3
Ripley	5	0	0	0	0	1	6	4	2
Rosing							0	0	0
Scandia Valley	1	0	0	0	0	0	1	0	1
Swan River	17	1	1	0	1	1	22	19	3
Swanville	6	2	0	3	0	0	11	10	1
Two Rivers	6	0	1	4	0	0	11	8	3
County Totals	347	14	27	38	7	7	347	253	93

Source: Morrison County Planning and Zoning

Figure 2.9 Morrison County Feedlots

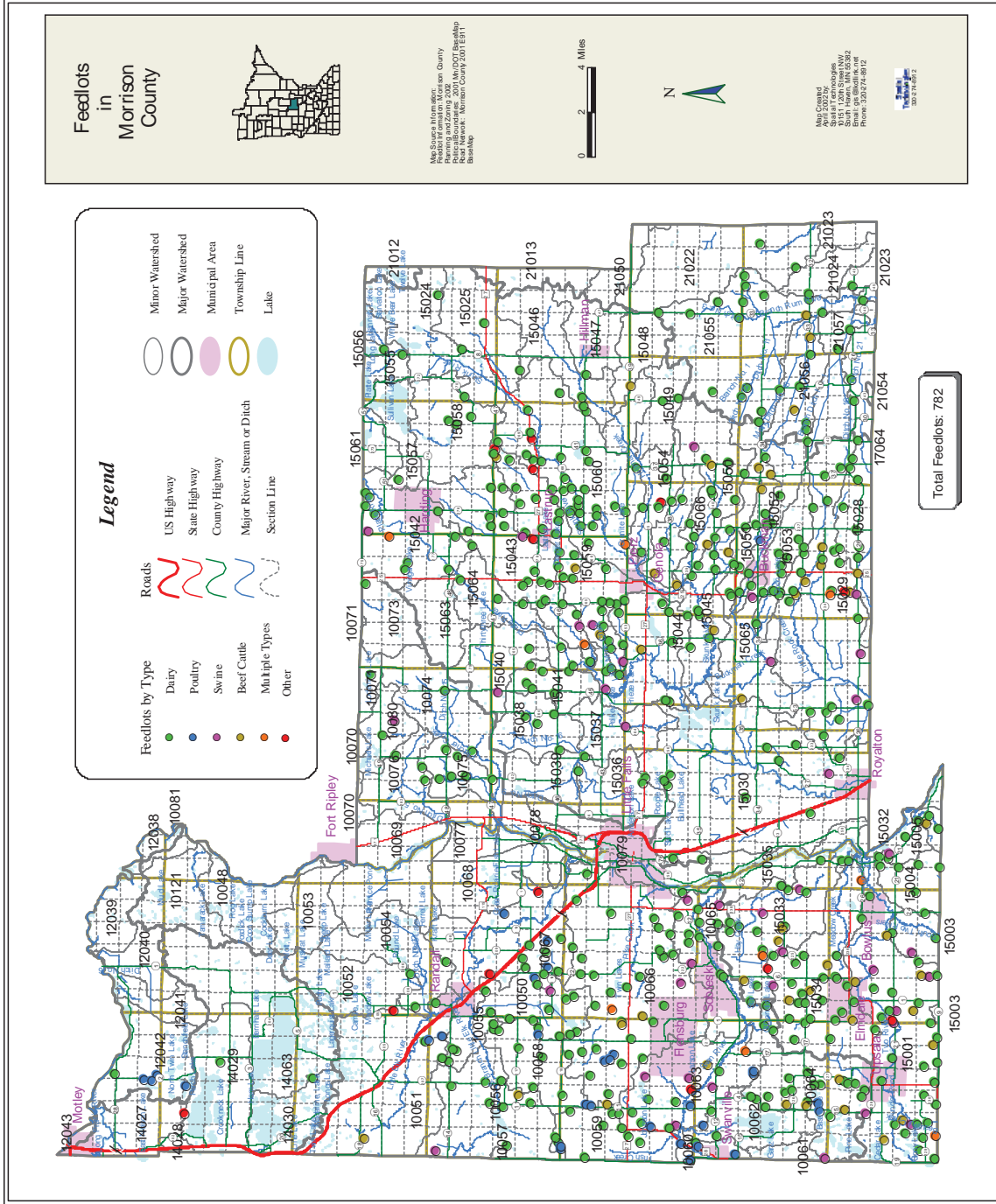
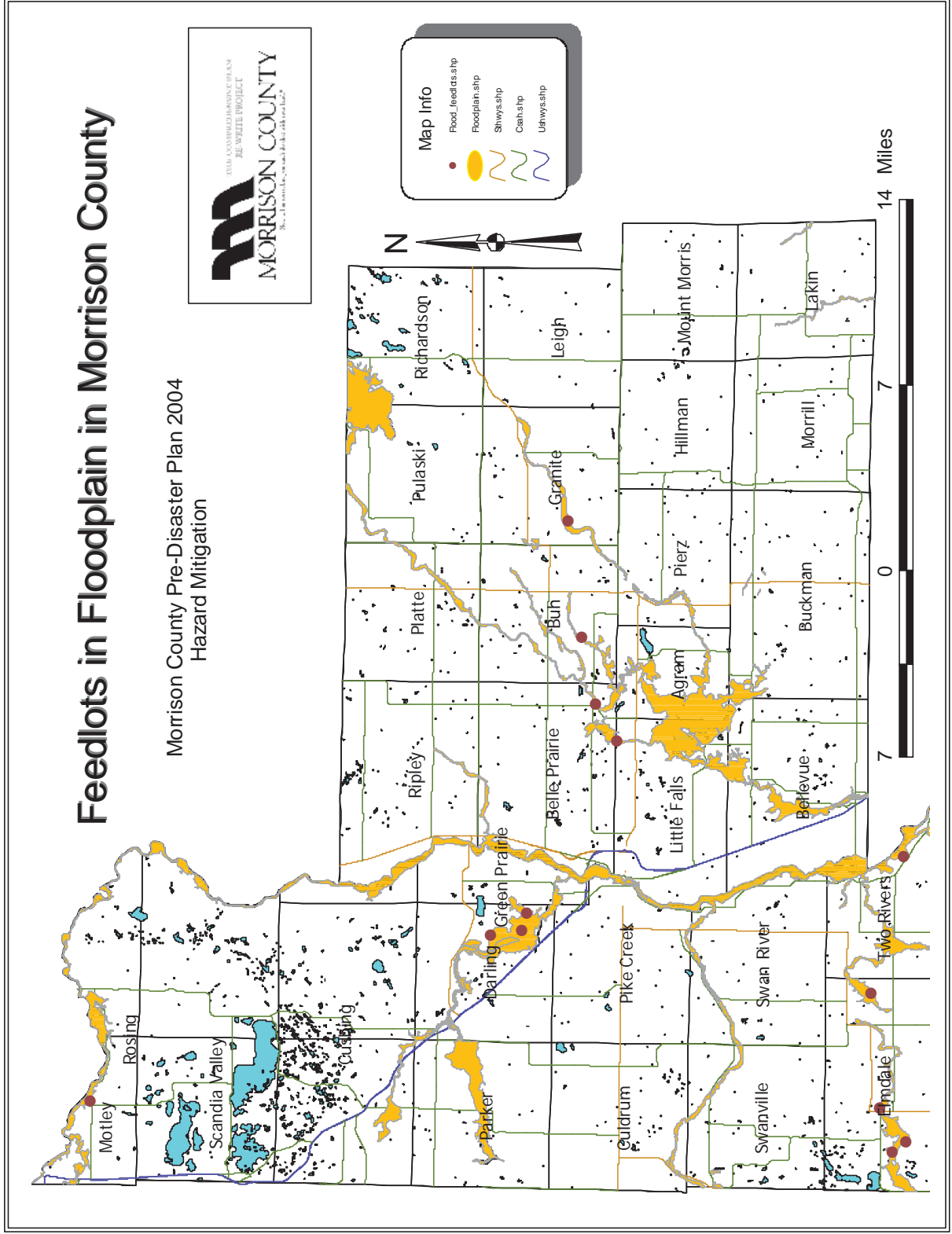


Figure 2.10 Feedlots within Floodplains



2.6 Infrastructure

2.6.1 Pipelines

The following are pipeline operators within Morrison County. Due to the sensitive nature of pipelines, all location and description information is maintained by the Morrison County Emergency Management Director. For more information related to pipelines including locations, incident information, and similar information contact the Morrison County Emergency Management Director. The following companies all maintain pipelines within Morrison County.

Pipeline Operator Name	Entity to Contact	Contact Address	Phone/Fax/Email
KOCH PIPELINE COMPANY, L.P.	Public Relations Department	4111 East 37th St. North, Wichita, KS 67220	Phone: 3168287082 Fax: 3168285739 Email: info@kochpipeline.com
NORTHERN NATURAL GAS CO	Operations Communications Center	1111 South 103rd Street, Omaha, NE 68124	Phone: 8883676671 Fax: 4023987433 Email: occ@nngco.com
VIKING GAS TRANSMISSION CO	Public and Government Affairs, Viking Gas Transmission Company	13710 FNB Parkway, Omaha, NE 68154	Phone: 4024927300 Email: publicandgovernmentaffairs@enron.com

*Due to the sensitivity of pipeline data the pipelines map is removed from all public copies of this plan, however a map of pipelines is maintained by Morrison County Emergency Management. All inquiries as to the viewing of this map can be directed to Morrison County Emergency Management.

2.6.2 Solid Waste

Solid and Hazardous Waste Sites

Presently, there is one open sanitary landfill in the County. It is owned by Morrison County and operated by Falls Waste Inc. The landfill is located approximately 3 miles

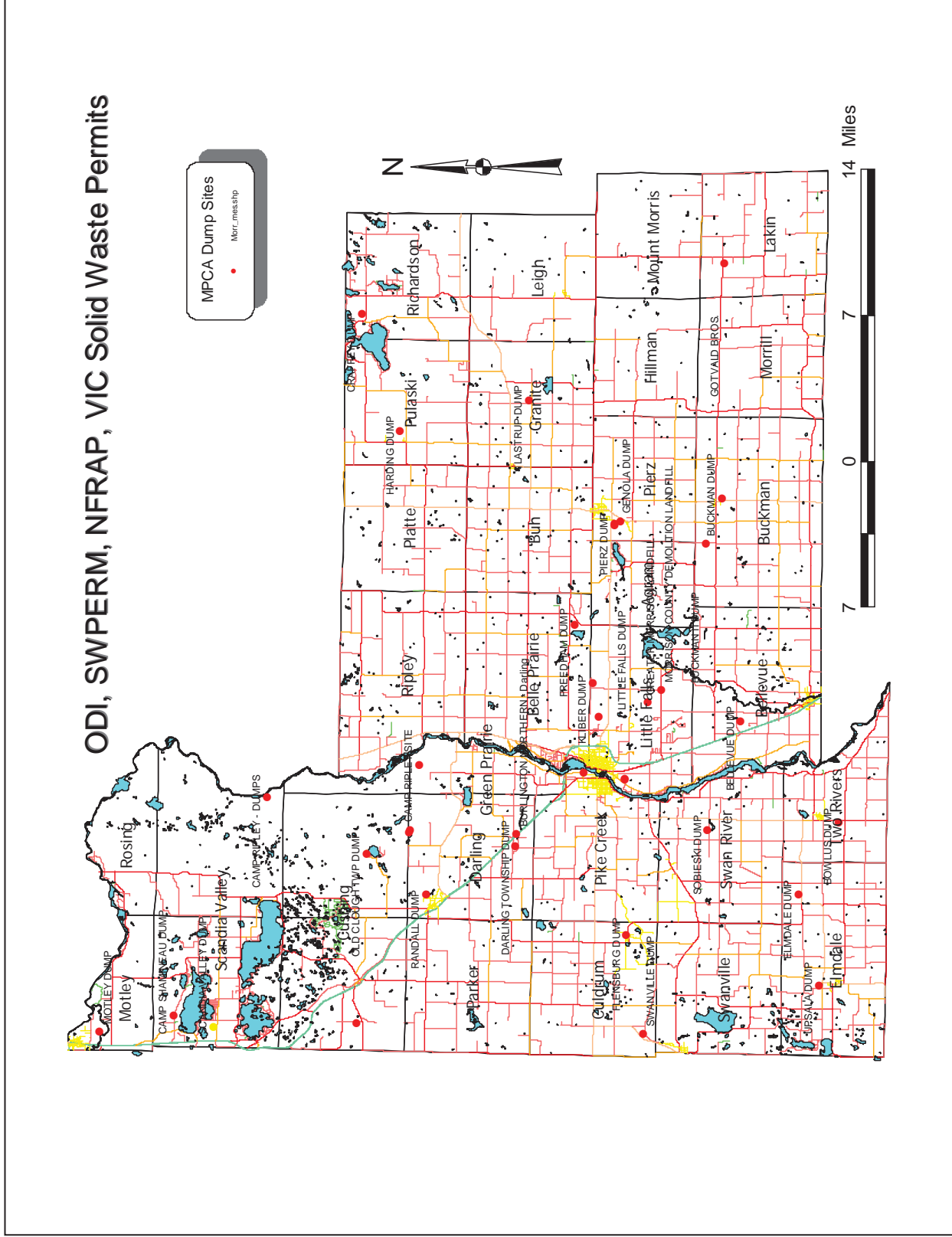
southeast of the City of Little Falls and is in the southeastern ¼ of Section 23, T40N, R32W, Little Falls Township. The landfill is a state-of-the-art solid waste land disposal facility was originally granted a permit to operate by the state in 1970. The permit most recently issued was in 1997.

An annual report is prepared as a part of the permitting process and water quality monitoring is reported. The year 2000 report noted that the groundwater data generally indicated a stable to slight improvement in water quality. Both inorganic and organic parameter concentrations were similar to past data and no new volatile organic compounds (VOC) were found.

In 1999, the Morrison County Board of Commissioners adopted the Solid Waste Management Plan. According to this plan, the Morrison County Sanitary Landfill has a permitted capacity to the year 2011.

Morrison County has 30 reported dumps or landfills that have been in commercial operation in years past. Since 1970, the MPCA has increased its regulation and oversight of the disposal of sanitary and hazardous waste in the state. Table 2.13 provides an inventory of the reported “old” dumps and Figure 2.11 shows all permitted waste and hazardous material facilities within Morrison County.

Figure 2.11 Permitted Solid Waste Facilities



2.13 Storage Tanks

Id No.	Material	Quantity	Name	Address	City_State Zip
17427	Diesel	6000	Gold Enterprises Inc	Highway 10	Motley MN 56466
17427	Gasoline	10000	Gold Enterprises Inc	Highway 10	Motley MN 56466
17427	Diesel	10000	Gold Enterprises Inc	Highway 10	Motley MN 56466
10701		12000	Mr Eds	Highway 10 - Po Box 270	Motley MN 56466
8294	Gasoline	8000	Kens Service Station	Highway 10	Royalton MN 56373
8294	Diesel	3000	Kens Service Station	Highway 10	Royalton MN 56373
8279	Gasoline	4000	Country Store	Route 5 - Po Box 95	Little Falls MN 56345
8231	Gasoline	4000	El-ray Truck Stop	Jct Highway 10 & 210	Motley MN 56466
8231	Diesel	4000	El-ray Truck Stop	Jct Highway 10 & 210	Motley MN 56466
8231	Gasoline	10000	El-ray Truck Stop	Jct Highway 10 & 210	Motley MN 56466
5832	Gasoline	4000	Motley Mini Mall	Highway 10 & 2nd St	Motley MN 56466
932	Gasoline	12000	Ortons Motley Amoco/stan's Standard	Highway 10 N/po Box 417	Motley MN 56466
15485	Gasoline	8000	Belle Prairie Junction	Route 4 - Po Box 270	Little Falls MN 56345
8404	Diesel	10000	Pol Point No #1-camp Ripley	SWC Motor Pool Rd & Chick	Little Falls MN 56345
10694	Gasoline	10000	Morrison County Airport	Route 5	Little Falls MN 56345
8279	Diesel	8000	Country Store	Route 5 - Po Box 95	Little Falls MN 56345
15485	Gasoline	4000	Belle Prairie Junction	Route 4 - Po Box 270	Little Falls MN 56345
8237	Diesel	2000	Lange Oil Co	Po Box 384	Upsala MN 56384
8260	Fuel Oil	10000	Dr Sg Knight Elementary School	None	Randall MN 56475
13469	Diesel	6000	Little Falls E-Z Stop	100 Lemieur St	Little Falls MN 56345
13469	Gasoline	12000	Little Falls E-Z Stop	100 Lemieur St	Little Falls MN 56345
12021	Diesel	8000	Ame Ready Mix - Monticello Plant	Co Rd 75 & Co Rd 118	Monticello MN 55362

10694	Aviation Gas	8000	Morrison County Airport	Route 5	Little Falls MN 56345
8295	Diesel	8000	Holiday Stationstore #216	1301 1st Ave NE	Little Falls MN 56345
8295	Gasoline	12000	Holiday Stationstore #216	1301 1st Ave NE	Little Falls MN 56345
8295	Gasohol	10000	Holiday Stationstore #216	1301 1st Ave NE	Little Falls MN 56345
8259	Fuel Oil	15000	Little Falls High School	1001 Se 5th Ave	Little Falls MN 56345
8256	Fuel Oil	8000	Lindbergh Elementary School	Broadway & Se 9th St	Little Falls MN 56345
8235	Fuel Oil	8000	Lutheran Senior Citizens Home Inc	1200 1st Ave NE - Po Box 248	Little Falls MN 56345
10690	Diesel	8500	Little Falls Dray	503 9th Ave NE	Little Falls MN 56345
8278	Waste Oil	250	City Of Little Falls/street Dept Garage	100 7th Ave NE	Little Falls MN 56345
17300	Diesel	4000	Wastewater Plant	3 Se 8th Ave	Little Falls MN 56345
11666	Fuel Oil	1000	Our Lady Of Lourdes School	205 Nw 3rd St	Little Falls MN 56345
11218	Gasoline	550	Fenskess Little Falls Oil Inc	320 NE 5th St	Little Falls MN 56345
11218	Solvent	1000	Fenskess Little Falls Oil Inc	320 NE 5th St	Little Falls MN 56345
8296	Fuel Oil	1500	Peter Motor Co	405 1st St SE	Little Falls MN 56345
8266	Diesel	6000	Falls Self Serv	Highway 10 & 27	Little Falls MN 56345
8266	Gasoline	12000	Falls Self Serv	Highway 10 & 27	Little Falls MN 56345
8263	Gasoline	12000	Tom Thumb Food Markets	206 1st St NE	Little Falls MN 56345
8263	Diesel	10000	Tom Thumb Food Markets	206 1st St NE	Little Falls MN 56345
8258	Fuel Oil	10000	Lincoln Elementary School	300 Sw 6th St	Little Falls MN 56345
8257	Fuel Oil	10000	Central Office Building	109 NE 2nd Ave	Little Falls MN 56345
8239	Gasoline	7500	Clark Service Station #621	220 1st SE	Little Falls MN 56345
8226	Gasoline	6000	Bills Standard	200 Se 1st St	Little Falls MN 56345
8226	Gasoline	3000	Bills Standard	200 Se 1st St	Little Falls MN 56345
8222	Diesel	4000	Creameries Blending Inc	402 W Broadway	Little Falls MN 56345
8222	Gasoline	2000	Creameries Blending Inc	402 W Broadway	Little Falls MN 56345

8222	Gasoline	12000	Creameries Blending Inc	402 W Broadway	Little Falls MN 56345
8222	Fuel Oil	1000	Creameries Blending Inc	402 W Broadway	Little Falls MN 56345
8243	Fuel Oil	1000	C A Lindbergh State Park	Route 3 - Po Box 246	Little Falls MN 56345
12080	Diesel	12000	Holiday Stationstore #214	31 Babcock Blvd	Delano MN 55328
8231	Diesel	2000	El-ray Truck Stop	Jct Highway 10 & 210	Motley MN 56466
8404	Gasoline	10000	Pol Point No #1-camp Ripley	SWC Motor Pool Rd & Chick	Little Falls MN 56345
8294	Gasoline	12000	Kens Service Station	Highway 10	Royalton MN 56373
932		12000	Ortons Motley Amoco/stan's Standard	Highway 10 N/po Box 417	Motley MN 56466

2.14 Landfills

Landfill Name	Owner/Operator	Community	Township	Range	Section	Type
Motley Dump		Motley	133	31	19	ODI
Burlington Northern - Darling		Darling	130	30	35	ODI
Cushing Township Dump		Cushing	131	31	19	ODI
Darling Township Dump		Darling	130	30	34	ODI
Camp Shamineau Dump		Motley Township	132	31	5	ODI
Bowlus Dump		Bowlus	127	30	14	ODI
Scandia Valley Dump		Shamineau Park	132	31	18	ODI
Camp Ripley site		Green Prairie	130	29	5	ODI
Elmdale Dump		Elmdale	127	30	5	ODI
Swanville Dump		Swanville	129	31	31	ODI
Flensburg Dump		Flensburg	129	31	25	ODI
Upsala Dump		Upsala	127	31	10	ODI
Sobieski Dump		Upsala	128	30	14	ODI
Gotvald Bros.		Lakin	39	28	8	ODI
Buckman Dump		Buckman	39	30	9	ODI
Little Falls burn site/dump		Little Falls	40	32	18	ODI
Little Falls Dump		Little Falls	40	32	10	ODI
Harding Dump		Harding	42	29	17	ODI
Lastrup Dump		Lastrup	41	29	15	ODI
Pierz Dump		Pierz	40	30	18	ODI
Bellevue Dump		Royalton	39	32	15	ODI
Genola Dump		Genola	40	30	18	ODI
Kliber Dump		Little Falls	40	32	12	ODI
Buckman II Dump		Buckman	39	31	1	ODI
Randall Dump		Randall	130	30	5	ODI
Freedham Dump		Freedhem	41	31	35	ODI
Craffey Dump		Harding	42	28	5	ODI
Morrison County Demolition Landfill		Pierz	40	32	26	SWPERM
Camp Ripley - dumps		Little Falls	132	30	36	VIC
Old Clough Twp Dump		Randall	131	30	27	NFRAP
Camp Ripley solid waste transfer station		Randall	130	30	2	SWPERM
Camp Ripley demolition debris facility		Little Falls	130	30	2	SWPERM
Larson Industries demolition landfill		Little Falls	129	29	18	SWPERM
Pierz demolition landfill		Pierz	40	30	18	SWPERM
Closed City of Little Falls dump		Little Falls township	40	32	18	NFRAP
Greater Morrison Landfill		Little Falls	40	32	23	SWPERM

Source: MPCA

2.6.3 Transportation: Roadways, Bridges, Railways, and Trails

Figures 2.12 through 2.18 show all roadways, bridges, railways, and trails within Morrison County.

Figure 2.12 US & State Highways

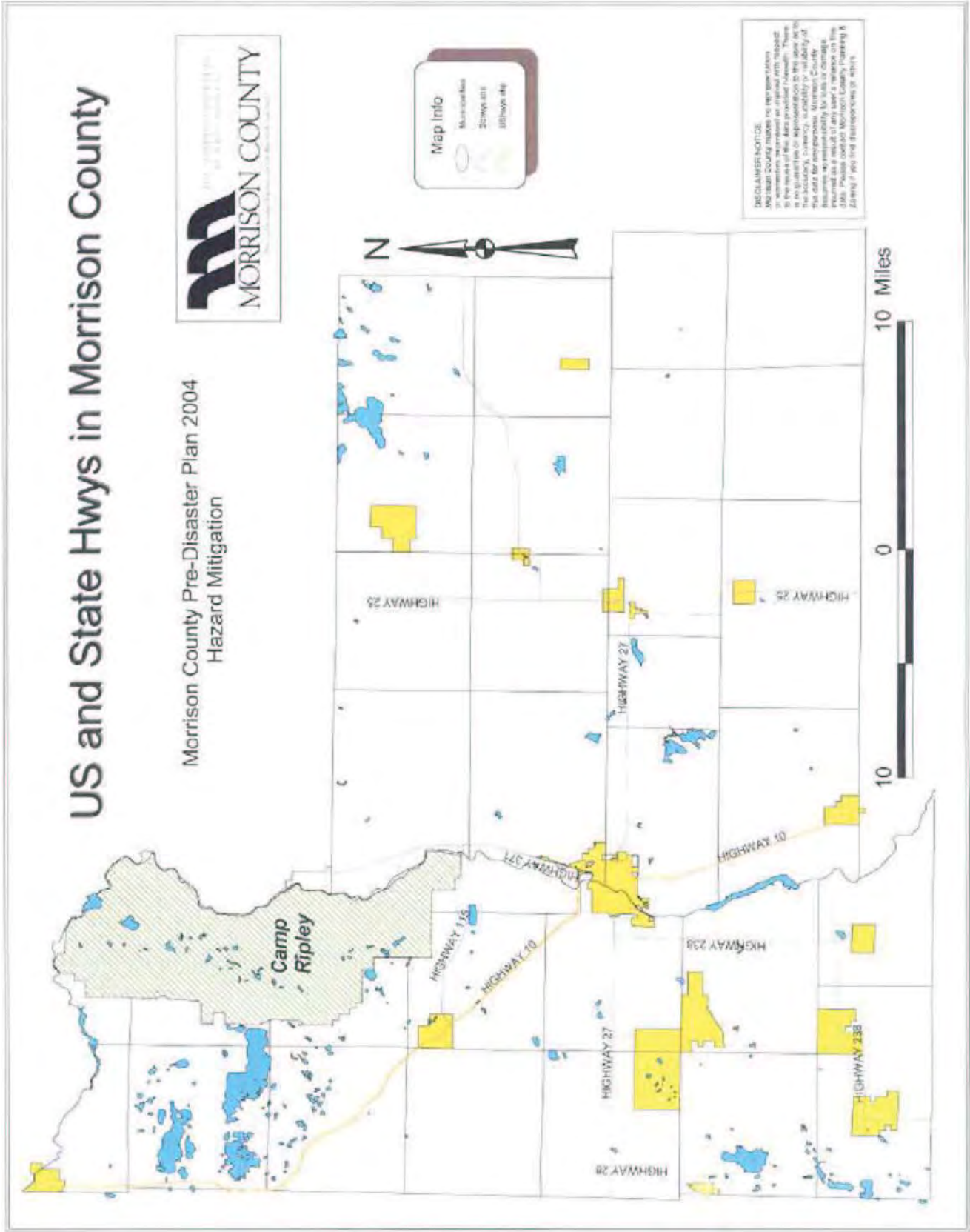


Figure 2.14 Township Roads

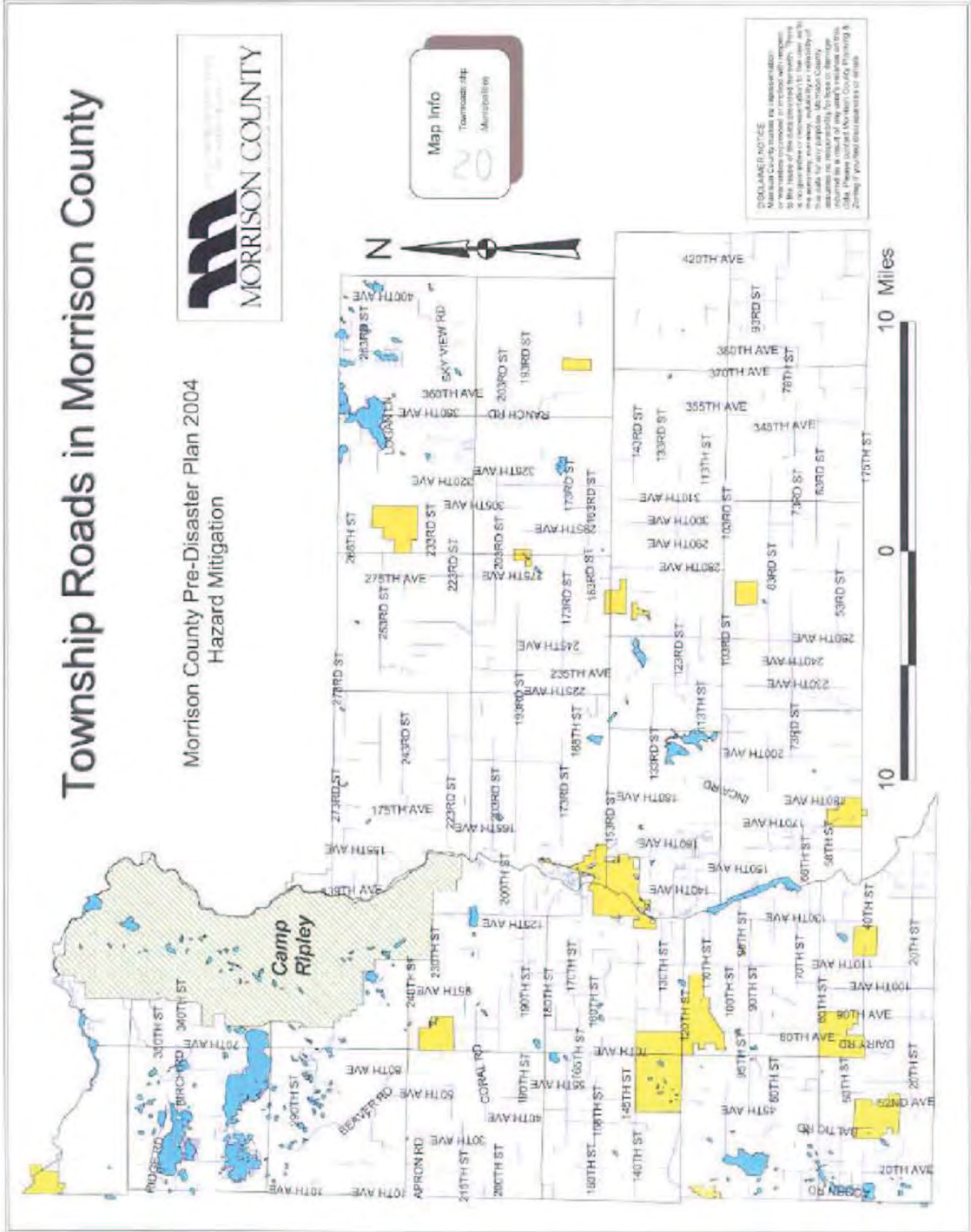


Figure 2.15 Private Roads

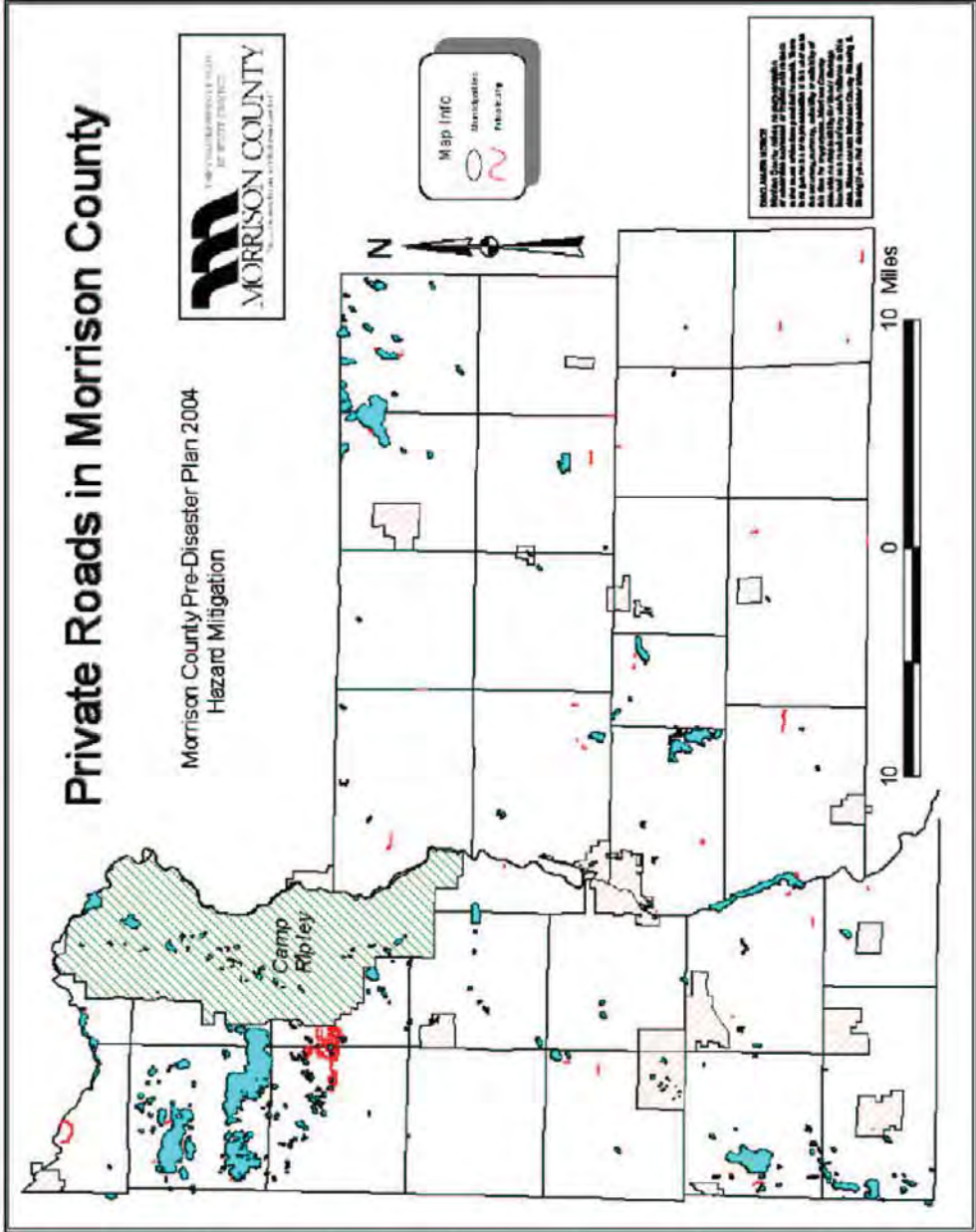
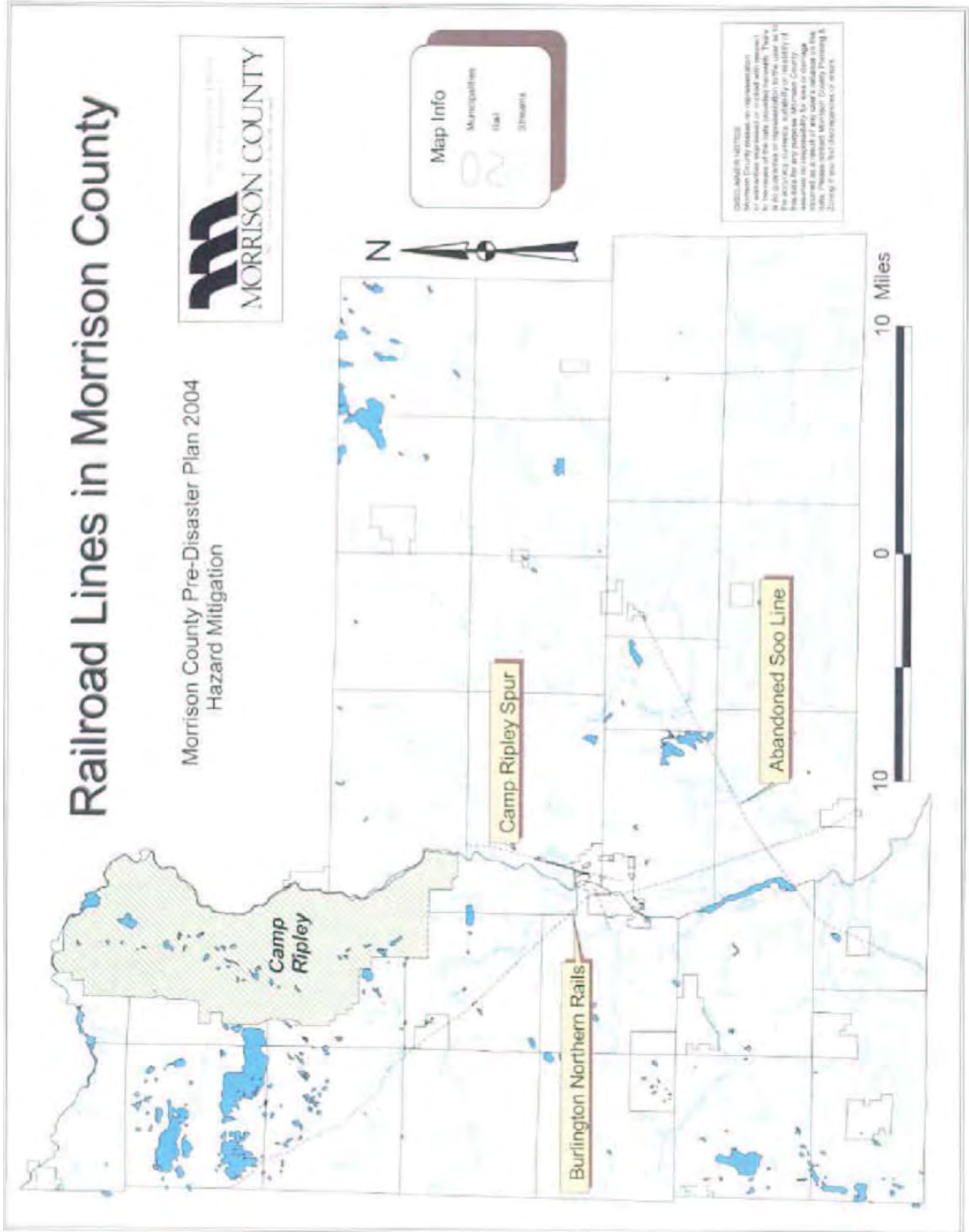


Figure 2.17 Railroad Lines



2.6.4 Waterworks

Public Stormwater Systems

Public stormwater systems typically consist of catch basins, storm sewer lines, manholes, and retention/detention ponds or stormwater treatment facilities. Generally, these facilities are found in larger communities. The cities of Little Falls, Pierz, Culdrum Township, the Rich Prairie Sewer & Water District, the Minnesota Department of Military Affairs and Morrison County have received permits for stormwater discharge from the MPCA.

With the exception of the City of Little Falls, digital data for mapping the location of these facilities is limited. At some point in the future, the County and the small cities will likely be required to inventory and manage the flow of stormwater.

The network of state, county and township roadways also collect, convey and discharge stormwater to ensure safe circulation of the highways. Culverts, bridges, roadway ditches and in some cases, ponds, are used to convey stormwater. The County Highway Department maintains an inventory of all bridges in the County with approximately 300 separate facilities. Further, there is an estimated 2,000 to 3,000 culverts crossing public roads in the County. An inventory of the public culverts would provide useful information in managing stormwater flows.

Public Wastewater Treatment Plants Inventory

There are 11 public wastewater treatment plants (WWTP) located in Morrison County. The largest treatment plant serves the City of Little Falls. Table 2.15 provides a listing of the treatment plants, a description of the treatment process and available capacity.

Common Wastewater Treatment Systems

Although there are several areas in the County where there is substantial small lot development with on-site sewage treatment, there are no common wastewater treatment facilities at the time this plan was written.

At some point in the future, landowners and public officials may need to consider alternative ways of treating sewage in areas where a second on-site system is not feasible or where soil or water quality conditions merit such a change.

Table 2.15
Existing Wastewater Treatment Plants

Community	Contact Information	Facility Description
Bowlus	Mayor, City of Bowlus City Hall Bowlus, MN 56314	Class D facility with a two-cell stabilization pond.
Camp Ripley	Facilities Management Office	Class B facility with a mechanical treatment system consisting of two primary clarifiers,

	Camp Ripley, P.O. Box 348 Little Falls, MN 56345-0348	two trickling filters, an aerated solids contact basin, two secondary clarifiers, UV disinfection, one primary anaerobic digester and one secondary anaerobic digester.
Flensburg	Mayor, City of Flensburg P.O. Box 14 Flensburg, MN 56328	Class D facility with a two-cell stabilization pond.
Little Falls	Mayor, City of Little Falls 100 Northeast Seventh Avenue P.O. Box 244 Little Falls, MN 56345-0244	Class A facility with a mechanical treatment system consisting of two primary clarifiers, trickling filter, two chlorine contact chambers, anaerobic sludge digester, sludge thickener, sludge and gas storage digester.
Motley	Mayor, City of Motley City Hall – P.O. Box 66 Motley, MN 56466-0066	Class C facility with a three-cell aerated pond system, including two settling cells, chlorination and dechlorination.
Randall	Mayor, City of Randall City Hall – P.O. Box 206 Randall, MN 56475	Class B facility with a mechanical treatment system consisting of two sequencing batch reactors, an effluent cascade aeration, sludge digester, chlorination and dechlorination.
Rich Prairie Sanitary Sewer District	Chairman, Rich Prairie Sewer and Water District City Hall, 101 Main Street South P.O. Box 367 Pierz, MN 56264	Class D facility that consists of a two-cell aerated pretreatment system followed by a three-cell stabilization pond.
Royalton	Mayor, City of Royalton 9 North Cedar Street P.O. Box 276 Royalton, MN 56373	Class D facility with a two-cell stabilization pond.
Sobieski	Mayor, City of Sobieski City Hall Little Falls, MN 56345	Class D facility with a two-cell stabilization pond.
Swanville	Mayor, City of Swanville City Hall, Box 4 Swanville, MN 56382	Class C facility with mechanical treatment system consisting of aeration tank, final clarifier, chlorine contact tank, reaeration tank, sludge digester.
Upsala	Mayor, City of Upsala City Hall Upsala, MN 56384	Class D facility with a two-cell stabilization pond.

Source: MPCA

Public Water Supply Systems

As defined by the state through the Wellhead Protection Rules (Chapter 4720), public water supply systems are defined as water systems that have 15 or more service

connections or regularly serves at least 25 people 60 days or more a year. It should be noted in this definition, “public water systems” can be owned by public or private entities. The number of people or separate service connections (homes, businesses, etc.) is the criteria that triggers the state requirements through this program. (The wellhead protection program is discussed in more detail in Section 4.)

There are nine public water supply systems located in Morrison County. Table 2.16 provides a description of the facilities.

Table 2.16
Existing Public Water Suppliers

Community/ PWSID	Contact	Facility/Well Description
Buckman 1490001	Robert Oldakowski City Hall Buckman	1 – 106’ and 1 – 121’ wells in the Quaternary Buried Artesian aquifer.
Little Falls 1490002	Greg McGillis City Hall 100 Seventh Avenue NE Little Falls	Seven wells ranging from 90 – 124’ deep in the Quaternary Water Table aquifer.
Motley 1490003	Wayne Barros	1 – 96’ well in the Quaternary Buried Artesian aquifer.
Rich Prairie Sewer and Water District 1490004	Gary Brausen Pierz	2 wells
Randall 1490005	Daniel Thilquist	1 – 67’ and 1 – 72’ wells in the Quaternary Buried Artesian aquifer.
Royalton 1490006	Dan Kaiser	1 – 106’ and 109’ wells in the Quaternary Buried Artesian aquifer.
Swanville 1490007	Brian Zadzalka	2 wells
Upsala 1490008	Frank Koopmeiners	1 – 55’ well in the Quaternary Water Table aquifer. 1 – 60’ well in the Quaternary Buried Artesian aquifer.
Bowlus 1490009	Robert Maciej	1 – 132’ well in Quaternary Buried Artesian aquifer.

Source: MDH

3.0 HAZARD ASSESSMENT AND HISTORICAL DATA

3.1 Hazard Overview

The following is an assessment of the frequency of occurrence, historical impacts, and rankings of real and potential natural, human-caused, and technological hazards facing Morrison County. To better understand risks and Morrison County’s vulnerabilities to hazards addressed within this plan a series of assessments were conducted utilizing public, local government official, county and local staff, emergency response staff, and other participation. In addition to information provided by public, local officials and staff, and emergency response staff, data was also collected from many state and federal agencies. This assessment is prepared utilizing the best possible data including frequency of occurrence, historical impacts, warning time, and areas affected to provide an analysis of for each hazard.

To quantify risk assessment information gathered for each identified hazard, color coding is used according to the following:

Frequency		
Future timeframe event most likely to occur		
	< 1 Year	Likely to occur in less than one year
	< 10 Years	Likely to occur in next ten years
	< 100 Years	Likely to occur in next 100 Years

Warning		
Amount of warning time prior to hazard event occurring		
	None	No Warning
	Minimal	Minutes to few hours warning time
	3 to 6 Hours	Three to six hours warning time
	6 to 12 Hours +	Six to twelve or more hours warning time

Impact		
Measures the perceived level of impact on the entire County		
	Substantial	Widespread injury, loss of life and property damage
	Major	Significant property damage, great injury and loss of life
	Minor	Limited property damage, minimal injury and loss of life
	Limited	Cosmetic property damage, no loss of life, minimal injury

Area		
Total area of County effected including all cities and townships		
	> 50%	Majority or all of the county effected
	25 to 50%	Twenty-five to fifty percent of county effected
	10 to 25%	Ten to twenty-five percent of county effected
	< 10%	Localized area of county effected

Duration		
Length of duration of hazard event limited to the event itself or length of time the event can cause injury to persons, loss of life, and/or potential property damage		
	> 24 Hours	Over 24 hours
	12 to 24 Hours	Twelve to twenty-four hours
	1 to 12 Hours	One to twelve hours
	< 1 Hour	Less than one hour

Risk to Life/Injury and Risk to Property		
Measures the perceived risk to bodily harm or injury and/or property damage in the immediate proximity where the specific hazard occurs.		
	Very High	Total loss of life and destruction of property
	High	High loss of life, injury or property damage
	Limited	Small loss of life, injury, and property damage
	Minimal	No loss of life, cosmetic property damage if any

3.2 Natural Hazards

3.2.1 Summer Storms

TORNADO

A tornado is defined as a violently rotating column of air in contact with the ground and pendent from a cumulonimbus cloud. They can be categorized as "weak", "strong", and "violent"; with weak tornadoes often having a thin, rope-like appearance and rotating wind speeds no greater than about 110 MPH. The typical strong tornado often has what is popularly considered a more "classic" funnel-shaped cloud associated with the whirling updraft and rotating wind speeds varying from 110 to 200 MPH. Violent tornadoes are capable of leveling a well-anchored, solidly constructed home however less than 2 percent of all tornadoes nationwide reach the 200+ MPH violent category. Strong and violent tornadoes usually form in association with mesocyclones, a strong rotating updraft usually associated with a supercell, which tend to occur with the most intense events in the thunderstorm spectrum.

Tornadoes are most likely to occur within Morrison County in the warm, humid months of May, June, July and August, however have occurred in Minnesota as early as March

and as late as November. Most tornadoes occur during the warmest parts of the day, in the late afternoon and early evening with over 80% of tornadoes occurring between noon and midnight. The magnitude of tornadoes is measured according to the Fujita Scale, commonly known as the “F” Scale. This scale displays the magnitude of a particular tornado based on several criteria including amount of destruction, wind speeds, and other data collection after the affected area has been assessed. The Fujita Scale ranges from F0 to F5 with F0, known as a “gale tornado” being the lowest magnitude tornado and F5 being an “incredible tornado” however the scale depicts an “inconceivable tornado” assigning such event at an F6. No such event has ever been identified to date. Table 3.2 shows historical data on Morrison County tornadoes obtained from the National Oceanic and Atmospheric Administration.

DATE	TIME	Location or Area	MAG	DTH	INJ	PrD	CrD
7/6/1954	7:00 a.m.	N/A	F1	0	0	3K	0
6/30/1961	8:30 p.m.	N/A	F2	0	0	25K	0
7/23/1965	2:45 p.m.	N/A	F1	0	0	25K	0
8/3/1965	5:00 p.m.	N/A	F0	0	0	25K	0
7/10/1966	5:00 p.m.	N/A	F1	0	0	250K	0
7/22/1967	7:30 p.m.	N/A	F0	0	0	25K	0
7/21/1972	3:20 p.m.	N/A	F0	0	0	0	0
8/14/1978	6:35 p.m.	N/A	F1	0	0	250K	0
3/25/1981	1:15 p.m.	N/A	F2	0	0	25K	0
6/28/1981	5:25 p.m.	N/A	F1	0	0	25K	0
6/16/1985	4:24 p.m.	N/A	F1	0	0	0	0
7/14/1995	3:10 a.m.	Long Prairie (West County.)	F0	0	0	0	0
9/18/1997	4:25 p.m.	Camp Ripley JCT	F1	0	0	0	0
9/18/1997	5:15 p.m.	Lastrup	F3	1	1	1.7M	0
9/18/1997	6:30 p.m.	Royalton	F2	0	0	0	0
7/25/1999	5:10 p.m.	Little Falls	F0	0	0	0	0
6/13/2001	7:00 p.m.	Flensburg	F2	0	0	200K	0
7/19/2003	3:04 p.m.	Swanville	F0	0	0	0	0
7/19/2003	3:15 p.m.	Flensburg	F0	0	0	0	0
Total	7/6/1954 to 6/1/2004	19 Tornadoes Total	F0 = 7 F1 = 7 F2 = 4 F3 = 1	1	1	2.5M	0

Source: NOAA National Climatic Data Center (NCDC)
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

THUNDERSTORMS AND SEVERE STORMS

Thunderstorms can occur anywhere in the world and at any time of the day, however in Morrison County they are most likely to occur between the months of May and August. All thunderstorms produce lightning and thunder. Some have the potential to produce damaging straight-line winds, large hail, heavy rain, flooding, and tornadoes. A thunderstorm is classified as “severe” when it contains either singly, or a combination of hail 3/4" or greater, winds gusting in excess of 50 knots (57.5 mph), and/or tornado.

Table 3.2 Morrison County Significant Thunderstorms (1959 to 2003)							
DATE	TIME	Location or Area	MAG	DTH	INJ	PrD	CrD
8/3/1959	7:00 p.m.	N/A	60 Kts.	0	0	0	0
8/2/1965	2:45 p.m.	N/A	54 Kts.	0	0	0	0
5/20/1975	6:00 p.m.	N/A	85 Kts.	0	0	0	0
5/26/1977	7:30 p.m.	N/A	61 Kts.	0	0	0	0
6/16/1978	12:42 a.m.	N/A	53 Kts.	0	0	0	0
7/22/1981	2:30 p.m.	N/A	50 Kts.	0	0	0	0
7/5/1982	9:25 p.m.	N/A	54 Kts.	0	0	0	0
7/31/1984	5:55 p.m.	N/A	86 Kts.	0	0	0	0
6/21/1989	6:10 p.m.	N/A	57 Kts.	0	0	0	0
6/12/1990	12:30 a.m.	N/A	57 Kts.	0	0	0	0
5/12/1991	11:35 p.m.	N/A	61 Kts.	0	0	0	0
6/27/1991	1:15 a.m.	N/A	69 Kts.	0	0	0	0
7/18/1991	5:45 p.m.	N/A	56 Kts.	0	0	0	0
6/19/1994	8:55 p.m.	Motley	N/A	0	0	5K	0
7/18/1996	12:55 a.m.	Buckman	55 Kts.	0	0	0	0
6/28/1997	1:10 p.m.	Motley	61 Kts.	0	0	0	0
6/28/1997	12:50 p.m.	Randall	50 Kts.	0	0	0	0
10/8/1997	9:30 p.m.	Randall	50 Kts.	0	0	0	0
6/15/1998	3:53 PM	Freedham	50 kts.	0	0	0	0
7/14/1998	4:47 PM	Belle Prairie	50 kts.	0	0	0	0
9/25/1998	10:15 PM	Bowlus	65 kts.	0	0	0	0
9/25/1998	10:39 PM	Royalton	55 kts.	0	0	0	0
3/17/1999	11:00 AM	Multiple	55 kts.	0	0	0	0
6/21/1999	06:12 PM	Royalton	55 kts.	0	0	0	0
7/22/1999	11:20 PM	Little Falls	55 kts.	0	0	0	0
7/30/1999	01:40 PM	Buckman	60 kts.	0	0	0	0
7/30/1999	02:15 PM	Royalton	50 kts.	0	0	0	0
7/30/1999	03:05 PM	Pierz	52 kts.	0	0	0	0
7/08/2000	09:55 PM	Pierz	50 kts.	0	0	0	0
7/08/2000	10:10 PM	Little Falls	50 kts.	0	0	0	0
6/11/2001	02:05 PM	Elmdale	52 kts.	0	0	0	0
6/11/2001	02:15 PM	Royalton	52 kts.	0	0	0	0
6/11/2001	02:20 PM	Morrill	50 kts.	0	0	0	0
6/13/2001	06:30 PM	Swanville	50 kts.	0	0	0	0
6/13/2001	10:30 PM	Little Rock	55 kts.	0	0	0	0
6/18/2001	03:30 AM	Lastrup	60 kts.	0	0	1K	0
6/18/2001	03:45 AM	Buckman	65 kts.	0	0	10K	0
7/17/2001	08:40 PM	Little Falls	60 kts.	0	0	0	0
4/16/2002	08:40 PM	Camp Ripley Jct	55 kts.	0	0	0	0
4/16/2002	08:48 PM	Randall	55 kts.	0	0	0	0
7/27/2002	11:30 AM	Upsala	55 kts.	0	0	0	0
7/27/2002	11:55 AM	Royalton	52 kts.	0	0	0	0
7/19/2003	02:55 PM	Lincoln	70 kts.	0	0	0	0
7/19/2003	03:05 PM	Swanville	70 kts.	0	0	0	0
7/19/2003	03:10 PM	Randall	70 kts.	0	0	0	0

Source: NOAA National Climatic Data Center (NCDC)
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

LIGHTNING

Lightning occurs when there is a build up and discharge between positive and negative charges within a cloud, two clouds, cloud to air, or between a cloud and the ground. When this difference becomes great enough a lightning bolt strikes. Lightning presents a danger as it is present in all thunderstorms, however approximately 80% of all lightning activity occurs within a cloud, from cloud to air, and cloud to cloud.

HAIL STORM

Also the product of a thunderstorm, hail is formed when water droplets are carried through thunderstorm updrafts to the freezing regions of the cloud. The droplets are then pushed through the updrafts and downdrafts of the cloud mixing with other water droplets until a pellet of ice is formed that can no longer be supported by the updrafts. When this occurs the ice pellets or hailstones fall to the ground. Most hail in Minnesota ranges in size from pea size to golf ball size however larger hailstones have been reported on a more infrequent basis. Table 000 displays NOAA information on hailstorm activity with a magnitude of at least .75 inch hail within Morrison County since 1962.

DATE	LOCATION	TIME	MAG	Dth	Inj	PrD	CrD
July 29, 1962	N/A	4:30 PM	2.75 in.	0	0	0	0
Aug 2, 1965	N/A	6:00 PM	1.50 in.	0	0	0	0
June 12, 1976	N/A	3:00 PM	1.50 in.	0	0	0	0
July 29, 1976	N/A	7:00 PM	1.00 in.	0	0	0	0
Aug 14, 1978	N/A	4:55 PM	1.75 in.	0	0	0	0
June 15, 1979	N/A	12:02 AM	2.75 in.	0	0	0	0
Sept 1, 1979	N/A	1:08 AM	0.75 in.	0	0	0	0
June 27, 1980	N/A	5:15 PM	1.75 in.	0	0	0	0
Mar 25, 1981	N/A	1:15 PM	1.75 in.	0	0	0	0
April 26, 1984	N/A	4:38 PM 6:38 PM	1.75 in. 1.75 in.	0	0	0	0
April 20, 1985	N/A	9:15 PM	1.75 in.	0	0	0	0
April 21, 1985	N/A	9:35 PM	1.75 in.	0	0	0	0
June 21, 1985	N/A	3:15 PM	1.00 in.	0	0	0	0
Aug 21, 1987	N/A	2:00 PM	1.00 in.	0	0	0	0
June 24, 1988	N/A	8:39 PM	0.75 in.	0	0	0	0
May 29, 1989	N/A	10:50 AM	1.75 in.	0	0	0	0
Sept 3, 1989	N/A	12:30 PM	1.75 in.	0	0	0	0
April 23, 1990	N/A	5:03 PM	0.75 in.	0	0	0	0
April 24, 1990	N/A	7:40 AM	1.25 in.	0	0	0	0
May 22, 1990	N/A	3:40 PM	0.75 in.	0	0	0	0
June 28, 1990	N/A	6:50 AM	0.75 in.	0	0	0	0
Aug 27, 1990	N/A	7:58 PM	1.75 in.	0	0	0	0
May 12, 1991	N/A	11:20 PM	1.25 in.	0	0	0	0
July 5, 1994	Freedham	8:41 PM	0.75 in.	0	0	0	0
Aug 7, 1994	N/A	3:30 PM	0.75 in.	0	0	0	0

Aug 25, 1994	N/A	2:45 PM	1.50 in.	0	0	0	0
July 3, 1995	Little Falls	5:49 PM	1.00 in.	0	0	0	0
July 14, 1995	Carlos	3:00 AM	0.75 in.	0	0	0	0
July 21, 1995	Camp Ripley	4:23 PM	0.75 in.	0	0	0	0
5/17/1996	Cushing	7:05 PM	0.75 in.	0	0	0	0
7/01/1996	Swanville	7:05 PM	1.50 in.	0	0	0	0
7/11/1996	Lincoln	6:20 PM	1.00 in.	0	0	0	0
7/21/1996	Motley Pillager Lastrup Freedhem Flensburg	7:15 PM 7:15 PM 7:58 PM 8:00 PM 8:52 PM	0.75 in. 1.00 in. 0.75 in. 1.00 in. 1.75 in.	0	0	0	0
6/04/1997	Motley	3:58 PM	0.75 in.	0	0	0	0
6/28/1997	Cushing Flensburg Little Falls Flensburg	5:00 AM 5:15 AM 5:28 AM 5:30 AM	0.88 in. 1.00 in. 1.00 in. 0.75 in.	0	0	0	0
9/18/1997	Hillman	5:20 PM	3.00 in.	0	0	0	0
9/25/1998	Pierz Morrill	10:40 PM 10:48 PM	2.00 in. 1.75 in.	0	0	0	0
6/06/1999	Flensburg Randall Bowlus	1:34 PM 1:45 PM 2:55 PM	0.75 in. 0.75 in. 1.00 in.	0	0	0	0
6/21/1999	Royalton	6:50 PM 7:02 PM 7:20 PM	1.00 in. 0.75 in. 1.75 in.	0	0	0	0
6/26/1999	Pierz	4:45 PM	0.88 in.	0	0	0	0
7/25/1999	Little Falls Royalton Little Rock	5:11 PM 5:22 PM 5:30 PM	1.00 in. 2.50 in. 0.75 in.	0	0	0	0
7/28/1999	Harding	11:35 PM	1.00 in.	0	0	0	0
7/29/1999	Hillman	12:20 AM	1.00 in.	0	0	0	0
7/30/1999	Elmdale	1:20 PM	1.25 in.	0	0	0	0
7/08/2000	Flensburg	10:10 PM	0.75 in.	0	0	0	0
7/25/2000	Buckman Morrill	2:00 PM 5:00 PM	0.75 in. 1.00 in.	0	0	0	0
6/11/2001	Little Falls Little Falls Buckman	2:30 PM 10:14 AM 11:50 AM	0.88 in. 1.00 in. 0.75 in.	0	0	0	0
6/13/2001	Motley	7:36 PM	1.75 in.	0	0	0	0
7/17/2001	Motley Cushing	7:35 PM 8:00 PM	0.75 in. 2.75 in.	0	0	0	0
8/17/2001	Flensburg	7:10 PM	0.75 in.	0	0	0	0
4/16/2002	Camp Ripley	8:00 PM	0.88 in.	0	0	0	0
6/19/2002	Flensburg	9:00 AM	0.75 in.	0	0	0	0
9/01/2002	Little Falls Upsala Little Falls Morrill Pierz	1:59 PM 2:00 PM 2:01 PM 3:30 PM 10:55 AM	1.75 in. 1.75 in. 1.50 in. 0.75 in. 0.75 in.	0	0	0	0

7/19/2003	Motley	2:40 PM	1.00 in.	0	0	0	6.0M
	Randall	3:15 PM	0.75 in.				
	Randall	3:25 PM	1.75 in.				
		3:47 PM	1.75 in.				

Source: NOAA National Climatic Data Center (NCDC)
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

History

Morrison County has experienced every one of the summer storms listed above. Some of these events such as thunderstorms and lightning occur more frequently than other events such as tornadoes and damage causing hail. Below is a brief summary of the history of summer storm activity in Morrison County.

Since 1954 Morrison County has experienced 19 tornadoes ranging in magnitude from F1 to F3 on the Fujita (F) scale with the majority of tornadoes measured at F0 or F1. Of these tornadoes, 11 resulted in property damage totaling 2.5 million dollars, one death, and one injury. Historically, the largest timeframe between tornado events since 1954 was 10 years between 1985 and 1995, however the data in Table 3.2 shows tornado events occur most commonly from yearly to once every three or four years.

Morrison County experiences thunderstorm related activity of a “severe” nature nearly yearly, however storms boasting wind speeds of 50 knots or approximately 57.5 miles per hour are somewhat less frequent. Historically, thunderstorm activity has caused thousands of dollars in damage to crops and property damage, however no thunderstorm related injury or death has been reported since 1954.

Since lightning occurs within every thunderstorm event, there is increased risk of damage and destruction to property as well as risk to human life or injury. In 1995 there were four reported injuries by lightning and 25 injuries reported in 2001 from as a result of lightning activity within Morrison County.

Hailstorm activity poses a much greater risk to property and crop damage than to risks to life and injury. Historically hailstorms have caused several thousand dollars in crop damage and property damage within Morrison County prior to 2003. Before 2003 data was either incomplete or missing, thus only an estimate of damages is available. In year 2003 as shown in table 3.3, a hailstorm did cause six million dollars of crop damage.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Tornado	< 10 Years	Minimal	Major	< 10%	< 1 Hour	High	High
Thunderstorms	< 1 Year	3 to 6 Hours	Minor	25 to 50%	< 1 Hour	Minimal	Limited
Lightning	< 1 Year	3 to 6 Hours	Limited	< 10%	< 1 Hour	High	High
Hail Storm	< 10 Years	3 to 6 Hours	Minor	10 to 25%	< 1 Hour	Minimal	Limited

Plans, Programs and Policies

National Weather Service storm monitoring activities
 NOAA Weather Radio
 Severe Weather Shelters
 Severe Weather Alert System
 Local Building Codes and Standards
 Infrastructure Improvements

3.2.2 Flooding and Flash Flooding

Flooding is the overflowing of water onto land areas that are normally dry. For the most part flooding can be predictable however flood events may be unpredictable in such cases as dam or levee failure or flash flooding. In working with floodplain management, the Federal Emergency Management Agency uses the “100-year Flood.” The 100-year flood is a delineated area of land where at least a one percent (1%) chance of future flooding exists. With this amount of uncertainty, a 100-year flood event could occur more often than once in 100 years. The 100-year floodplain standard is commonly used by federal, state, and local agencies, as well as the National Flood Insurance Program (NFIP) as the standard for floodplain management.

A flash flood is a rapid rise along a stream or low-lying urban area due to rain, levee or dam failure, rapid snowmelt, ice jams and similar causes. Flash flooding can also occur when slow moving or multiple thunderstorms occur over the same area. The effect of a flash flood is often greater in areas with inadequate storm sewers and storm drainage systems.

History

Snowmelt may cause significant flooding in the spring, especially when combined with early spring rainfall. The County Highway Department provided locations where flooding was a significant problem in the spring of 2001 when heavy rains fell during the peak snowmelt runoff.

As reported in the 1990 Morrison County Water Plan, the same areas in the County continue to have flooding problems. The Plan stated the following regarding flooding,

“Portions of the Little Elk, Swan and Platte rivers have been observed flooding in years of high snowmelt and high spring rains. The Little Elk has threatened some roads. During a 100-year storm event in 1972, Fletcher Creek located northeast of Little Falls washed out a State Highway 10 and portions of the residential area of Belle Prairie Township. With the occurrence of some extreme storm events occurring over the past several years in the state, these kinds of flooding problems may become a real concern.”

DATE	LOCATION	TIME	TYPE	Dth	Inj	PrD	CrD
Mar 26, 1997	Countywide (Mississippi)	3:00 PM	Flood	0	0	0	0
April 1, 1997	Countywide (Mississippi)	12:00 AM	Flood	0	0	0	0
April 4, 1997	Countywide (Mississippi)	6:00 AM	Flood	0	0	0	0
July 8, 2000	Little Falls	10:45 PM	Urban/Small Stream	0	0	0	0
April 1, 2001	Little Falls	12:00 PM	Flood	3	1	200.0M	0
April 7, 2001	Countywide (Mississippi)	5:00 AM	Flood	0	0	2.0M	0
April 22, 2001	Countywide (Mississippi)	7:00 PM	Flood	0	0	1.5M	0
June 13, 2001	Little Falls	10:30 PM	Flash	0	0	20K	0
July 10, 2002	Countywide	6:30 AM	Flash			0	0
June 23, 2003	Multiple	7:00 PM	Flood	0	0	6.0M	2.0M

Source: NOAA National Climatic Data Center (NCDC)
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Flash Flooding	< 10 Years	Minimal	Minor	< 10 %	1 to 12 Hours	Minimal	Minimal
Flooding	< 10 Years	> 12 Hours	Minor	10 to 25%	> 24 Hours	High	High

Risks associated with flooding in Morrison County include flooding along areas indicated within the floodplain mapping provided within the Appendices of this plan. These areas that are most “at-risk” include:

- Little Falls
- Randall
- Mississippi River
- Little Elk River
- Swan River
- Crow Wing River
- Long Prairie River

Plans, Programs and Policies

100-year Floodplain Mapping

Participation in NFIP

Flood emergency response plan include within Emergency Operations Plan (EOP)
 In areas where there is more intensive land development, especially the cities along the rivers listed above, it would be beneficial to have more detailed floodplain mapping. As development occurs along the rivers and streams in the County the need to improve floodplain mapping increases. This would require landowners wanting to build in areas in or near floodplains to document elevations of their property. Further, there is data available from the County Highway Department and state agencies regarding water flows that could be useful in developing improved floodplain maps.

3.2.3 Windstorms (Straight-lined Winds)

Windstorms can occur at any time throughout the year, however are most commonly experienced with severe thunderstorms in warm weather months. Windstorms most commonly include downbursts, tornadoes, and straight lined winds. These hazards are defined as events with wind speeds greater than 60 miles per hour. Limited information is available related to windstorms however Table 3.2 displays historical data on wind speeds of strong thunderstorms within Morrison County.

History

Violent windstorms, windstorms with greater than 60 mile per hour wind speeds occur every few years within Morrison County and occur either locally, as is the case with many thunderstorms or County wide. Information obtained by the NOAA NCDC shows that high wind events separate from thunderstorm activity have occurred approximately every three to four years. Windstorms in Morrison County have caused mostly cosmetic property damage however carries the potential for greater damage.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Windstorms	< 10 Years	> 12 Hours	Minor	25 to 50%	12 to 24 Hours	Minimal	Limited

Plans, Programs and Policies

Windbreaks: Natural Vegetative Cover

Building Codes and Standards

Others

3.2.4 Drought

Although the definition of a drought varies from location to location, a simple definition of the hazard is a prolonged period of dry weather due to a deficiency in precipitation. Drought is further defined as meteorological, agricultural, hydrological, and socioeconomic. Meteorological drought refers to a period of dry weather associated with lack of precipitation, agricultural drought refers to crop damage as a result of drought, hydrological drought refers to a drop in surface and groundwater levels as a result of drought, and socioeconomic drought refers to impacts on humans individually or collectively. Extreme heat refers to the impacts on the human and physical environment due to heat. The impacts of heat are typically measured using the heat index, which measures the temperature felt by the human body by combining actual temperature with humidity. As both heat and humidity increase the effects on the human body become of greater concern.

History

Drought is a regional hazard rather than a hazard specific only to Morrison County. In the past Morrison County has experienced periods of drought in the dustbowl period of the 1930's, periods of drought in the 1950's and the late 1980's. The effects of these drought events have included crop damage and loss, slight effects on surface and ground waters.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Drought	< 100 Years	> 12 Hours	Major	> 50%	> 24 Hours	Limited	High

Plans, Programs and Policies

- Water usage monitoring
- Local water usage limits, bans, and regulations
- Local medical centers

3.2.5 Wildfire

A wildfire is essentially an uncontrolled fire spreading through vegetative fuels over a large area. Wildfires can be caused by natural causes such as lightning, but are often times caused by human. There are essentially four types of wildfire or stages of wildfire including ground, surface, crown, and spotting. Ground fire is the starting of a wildfire and usually due to the small size of the fire, it may be difficult to detect until it has reached the surface stage. The surface fire generally burns approximately four feet in height and the difficulty of extinguishing the fire is associated with potential nearby fuels. Once a fire begins burning the tops of trees it is known as a crown fire. This fire can be extremely difficult to control due to winds which may cause spotting. Spotting is caused by the throwing or blowing of large embers of crown fire or surface fire ahead of a

wildfire. Spotting makes the controlling of a fire extremely difficult depending on wind speeds, etc. Smoke created by wildfire may also propose a risk to wildlife, persons, and property.

History

Small, sporadic wildfires occur in Morrison County somewhat frequently. These fires are usually contained by local fire departments or associations and/or with the assistance of the Minnesota Department of Natural Resources.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Wildfire	< 10 Years	Minimal	Minor	25 to 50%	> 24 Hours	Limited	High

Plans, Programs and Policies

- Local Fire Departments and Associations
- Minnesota Department of Natural Resources
- Others

3.2.6 *Infectious Diseases*

Any disease caused by the entrance, growth, and multiplication of bacteria or protozoans in the body; a germ disease. It may not be contagious. Sometimes, as distinguished from contagious disease, such a disease can be communicated by germs carried in the air or water, and thus spread without contact with the patient, as measles.

History

Although Morrison County alone has not experienced public health hazards of a large scale or magnitude, some more recent reporting of diseases such as West Nile Virus, SARS, and other disease pose a risk to public health.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Infectious Disease	< 100 Years	> 12 Hours	Major	> 50%	> 24 Hours	High	Minimal

Plans, Programs, and Policies

- Morrison County Public Health
- Minnesota Department of Health
- Centers for Disease Control (CDC)

3.2.7 Winter Storms and Events

BLIZZARD

A blizzard includes strong winds averaging or frequently gusting to, or above, 35 miles an hour and very low visibility due to blowing or falling snow. These are the most dangerous winter storms and can be especially severe when combined with temperatures below 10 degrees.

ICE STORMS

Ice storm conditions are most common when a rain event occurs and air temperature exceeds 32 degrees Fahrenheit, but the surface temperature remains at or below freezing. When the precipitation meets the surface and structures, ice accumulations occur. The National Weather Service defines an ice storm as accumulations of ice greater than ¼ inches.

SLEET

Sleet forms when precipitation originating as rain travels through freezing temperatures causing the precipitation to freeze before reaching the ground. Generally, sleet storm events are shorter in duration than ice storms, and generally have lower impacts.

EXTREME COLD

While there is no clear definition of “extreme cold”, the term can be generally defined as temperatures well below zero degrees Fahrenheit. Exposure to extremely cold temperatures can cause frostbite, hypothermia, and can be life threatening. In addition, extremely cold conditions can cause damage to infrastructure, automobiles, etc., if proper measures are not taken for cold weather preparation. Extreme cold is also associated with wind chill. Wind Chill is the term used to describe the rate of heat loss on the human body resulting from the combined effect of low temperature and wind. As winds increase, heat is carried away from the body at a faster rate, driving down both the skin temperature and eventually the internal body temperature. While wind chill will take heat away from an object faster, it cannot cool that object below the actual temperature.

HEAVY SNOW OR SNOW STORM

Heavy snow is typically defined as a snow event with four or more inches of accumulation in a 12-hour time period, six or more inches of snow in a 18-hour time period, and 12 or more inches of snow in a 24-hour time period. When visibility falls below one-half mile a snow event is considered heavy regardless of wind speed. Table 3.5 provides a list of winter storm related activity as reported by the NOAA.

History

Typically at least one or more of the winter storm events listed above occur within Morrison County at least annually. These storms can occur at any time of day within the months specified and often times are a combination of the above events.

DATE	TIME	TYPE	Dth	Inj	PrD
Nov 4, 1993	8:00 AM	Heavy Snow	0	0	0
Nov 12, 1993	4:00 PM	Ice Storm & Snow	0	0	0
Nov 24, 1993	8:00 AM	Heavy Snow	0	0	0
Jan 5, 1994	11:00 AM	Heavy Snow	0	0	0
Mar 23, 1994	6:00 AM	Heavy Snow & Ice	0	0	0
April 28, 1994	4:00 AM	Heavy Snow & Ice	0	0	0
Nov 27, 1994	5:00 AM	Heavy Snow & Ice	0	0	0
Feb 14, 1995	2:00 PM	Heavy Snow	0	0	0
Mar 4, 1995	12:00 PM	Heavy & Blowing Snow	0	0	0
Mar 27, 1995	1:00 AM	Heavy Snow	0	0	0
Dec 13, 1995	2:00 AM	Heavy Snow	0	0	0
Jan 28, 1996	4:00 AM	Heavy Snow	0	0	0
Feb 26, 1996	8:00 PM	Heavy Snow	0	0	0
Mar 23, 1996	9:00 PM	Heavy Snow	0	0	0
April 12, 1996	9:00 AM	Heavy Snow	0	0	0
Nov 20, 1996	2:00 AM	Heavy Snow	0	0	0
Dec 23, 1996	5:00 AM	Winter Storm	1	0	0
Jan 3, 1997	5:00 PM	Winter Storm	0	0	0
Mar 13, 1997	12:00 AM	Winter Storm	0	0	0
Mar 8, 1997	12:30 AM	Winter Storm	0	0	0
Dec 28, 2000	2:00 AM	Winter Storm	0	0	0
Jan 29, 2001	7:00 PM	Winter Storm	0	0	0
Feb 11, 2001	6:00 PM	Heavy Snow	0	0	0
Feb 24, 2001	5:00 PM	Winter Storm	0	0	0
Nov 26, 2001	4:00 AM	Winter Storm	0	0	0
Feb 24, 2002	5:00 AM	Winter Storm	0	0	0
Mar 8, 2002	6:00 PM	Winter Storm	0	0	0
Mar 14, 2002	8:00 AM	Winter Storm	0	0	0
Nov 22, 2003	6:00 PM	Winter Storm	0	0	0
Jan 24, 2004	9:00 PM	Winter Storm	0	0	0

Source: NOAA National Climatic Data Center (NCDC)
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Blizzard/Heavy Snow	< 10 Years	6 to 12 Hours	Major	> 50%	12 to 24 Hours	Limited	Limited
Ice Storms (Sleet)	< 10 Years	6 to 12 Hours	Major	> 50%	12 to 24 Hours	Limited	Limited

Plans, Programs and Policies

Infrastructure improvements

Snow fencing and windbreaks including natural vegetation

Cold weather awareness and public education

Snow removal, (salt, sand, etc.)

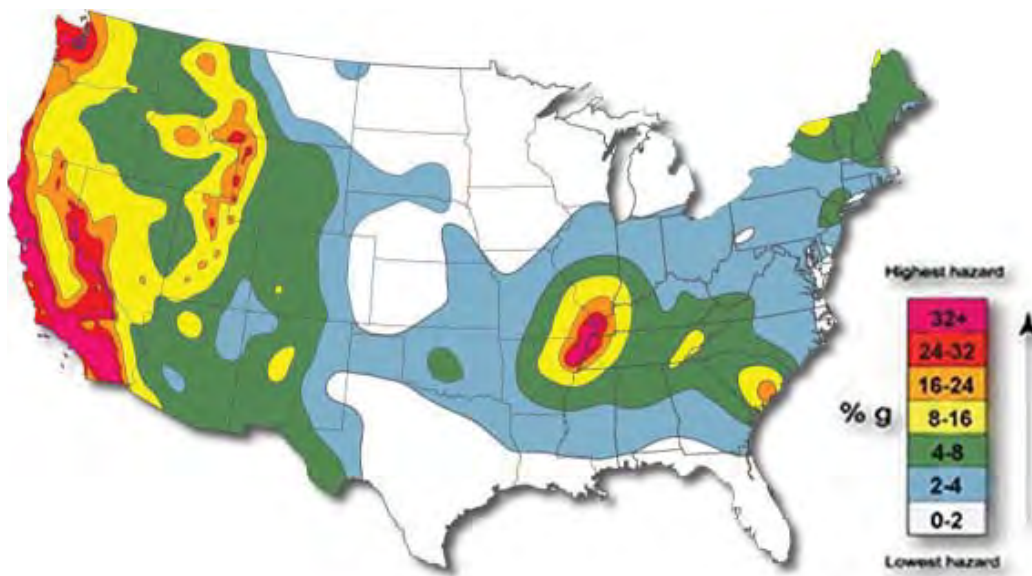
3.2.8 Earthquake

History

There have been limited reports of earthquake activity within Morrison County over the past 100 years however extremely limited earthquake and fault information exists for the County. Due to the reporting of earthquake activity within the County the hazard is generally identified within this plan.

Risks and Vulnerabilities

Figure 3.1 USGS 2003 Earthquake Probability Map



US Geological Survey, 2003

The likelihood of an earthquake is extremely small in relation to other natural disasters identified within Morrison County.

HAZARD	FREQUENCY	COUNTY WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Earthquake	< 100 Years	None	Limited	25 to 50%	< 1 Hour	Minimal	Limited

Plans, Programs, and Policies

United States Geological Survey (USGS) monitoring activities

3.3 Human Caused/Technological Hazards

3.3.1 Fire

The majority of all fires take place because of human action. Fires can occur in any community at any time, posing a constant threat to life and property including residential, commercial, industrial, institutional, or any similar properties within developed areas.

History

Structure fires are a hazard that is prevalent in not only Morrison County, but also throughout the world. Due to the inevitability of structure fires many communities throughout Morrison County provide fire protection services either as a municipality or a local fire association. These fire protection services are inventoried in the Morrison County Emergency Operations Plan and through the community profile within this plan.

According to the 2004 Minnesota Fire Marshall Report, Morrison County had a total of 115 fire runs for a loss of \$1,304,400 with one death. In 2005 there were 102 fire runs totaling \$1,709,750 in losses and one death.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Fire	< 1 Year	None	Limited < 10%	1 to 12 Hours	High	High

Plans, Programs and Policies

Local fire departments and associations
Local building codes and ordinances
Public education and awareness

3.3.2 Hazardous Material

Hazardous materials are chemical substances, which if released or misused can pose a threat to people, property or the environment. These chemicals are used in industry, agriculture, medicine, research, and consumer goods. Hazardous materials come in the form of explosives, flammable and combustible substances, poisons, and radioactive materials. These substances are most often released as a result of transportation accidents or because of chemical accidents within a facility.

TRANSPORTATION

Hazardous materials are transported throughout the county through a variety of transportation modes. These modes include road, rail, aircraft and pipeline. Each of

these modes presents different and unique risks of potential release or spill while in transit as well as differing levels of impact once the release or spill has occurred. For the most part, the transport of hazardous materials within the county includes the movement of materials from producers to users, producers to distributors, between storage and use facilities, and hazardous waste materials moving from use to disposal facilities.

Roadways

The roadway network through Morrison County includes several interregional corridors as well as links to the many communities throughout the county. The degree of impact from a hazardous material related release or spill is dependent on the proximity of the vehicle to population densities, concentrated development and environmentally sensitive areas when the event occurs.

Rail

Running through the center of Morrison County from the North and South is one of busiest rail lines in the state. The impacts of rail related hazardous material releases or spills carry the potential of being great due to the amount of rail traffic within the county as well as the close proximity of rail lines to population centers. Types of potential hazardous material releases along the county's rail corridors includes, but is not limited to valve leakage, safety valve releases, which carries the potential of releasing hazardous material in the form of liquid or gases in addition to release or spill due to derailment, collision, or similar accident. Such accidents carry the potential of releasing hundreds to thousands of gallons of material within areas along rail corridors.

Air

Within Morrison County there are two major airport facilities, one located within the Camp Ripley Military Training Facility and the other located south of the City of Little Falls. As with all airport facilities and air travel in general, hazardous materials transported by air travel or stored at airport facilities carry the potential of posing risk to life, property, and the environment.

Pipelines

Within Morrison County is a series of pipelines carrying flammable liquids and gases. Many of these pipelines are located within close proximity to portions of the city of Little Falls and other population concentrations. A map of these pipelines is on file with Morrison County Emergency Management.

FIXED FACILITIES

Various facilities throughout Morrison County hold hazardous materials. Some of these materials include flammable liquids, fuels, acids, corrosive materials, and other materials. Each facility exceeding minimum thresholds for material amounts can be obtained by contacting the Morrison County Emergency Management Director. Each facility exceeding minimum thresholds must file a Risk Management Plan with the County Emergency Management Office, the State Emergency Response Commission, and the Environmental Protection Agency. Each of these plans provide information on the

hazardous materials maintained onsite, the risk associated with those materials, potential area affected, and other information as required by the Emergency Response Commission. Table 3.6 lists a table of release events within Morrison County within the past ten years.

History

Morrison County has had a history of hazardous material spills, accidents, and similar events in the past. This is due largely to the major roadway and railway transportation corridors, pipelines, and fixed facilities within the County. Through the excellent work of local and state emergency response professionals, these events have amounted in a relatively small impact to the overall County population. The following is an inventory of hazardous material related events as reported by the National Response Center:

Table 3.6 Hazardous Material Inventory (National Response Center)

NRC Incident Report #	Incident Date	Location (Street)	Location (City)	Type of Incident	Medium Affected	Material Name
484008	05/15/1999	100 SOUTHWEST 5TH AVE	LITTLE FALLS	FIXED	WATER	(null)
507456	11/30/1999	100 SW 5TH ST	LITTLE FALLS	FIXED	WATER	BLEACH LIQUOR
395519	07/17/1997	1348 HIGHWAY 10 SOUTH	MOTLEY	FIXED	AIR	AMMONIA, ANHYDROUS
452328	08/25/1998	18034 TWIN LAKE RD	LITTLE FALLS	FIXED	LAND	OIL: CRUDE
710398	01/13/2004	711 BIRCH ST NORTH	ROYALTON	PIPELINE	AIR	NATURAL GAS
395092	07/11/1997	APPROX 3 MILE STRIP INCLUDES MARSH AND CREEK AREAS	ROYALTON	MOBILE	WATER	HERBICIDE, "CROSSBOW"
639871	03/18/2003	CAMP RIPLEY	LITTLE FALLS	MOBILE	LAND	JET FUEL: JP-8
65407	03/22/1991	HW 3 .5 SOUTH OF HW 71	EAGLE BEND	FIXED	LAND	OIL, MISC: TRANSFORMER
499726	09/21/1999	HWY 10 NORTH OF COUNTY RD18	STAPLES	PIPELINE	WATER	OIL: CRUDE
706411	11/26/2003	MAIN LINE	LITTLE FALLS	RAILROAD NON-RELEASE	RAIL REPORT (N/A)	(null)
615564	07/03/2002	MILE 15.9	RANDALL	RAILROAD NON-RELEASE	OTHER	(null)

210256	11/30/1993	MILE POST 116CAUSE UNKNOWN	RANDALL	RAILROAD	RAIL REPORT (N/A)	(null)
312393	10/29/1995	MILEPOST:105.22	LITTLE FALLS	RAILROAD	RAIL REPORT (N/A)	(null)
20688	05/06/1990	MISSISSIPPI RIVERAT THE HWY 10 BRIDGE	LITTLE FALLS	UNKNOWN SHEEN	WATER	UNKNOWN OIL
277223	01/23/1995	MOTLEY TRUCK START 1 BOX 150	MOTLEY	MOBILE	LAND	OIL: DIESEL
20686	05/06/1990	NORTH OF HWY 10 BRIDGEOVER MISSISSIPPI RIVER	LITTLE FALLS	UNKNOWN SHEEN	WATER	UNKNOWN OIL
316396	12/07/1995	PAUL LARSEN MEMORIAL DR	LITTLE FALLS	MOBILE	LAND	METHYL ETHYL KETONE PEROXIDE
373110	01/13/1997	RT 1BOX 235	RANDALL	FIXED	LAND	OIL, FUEL: NO. 2-D
410207	10/10/1997	RTE 1 BOX 99	LITTLE FALLS	FIXED	LAND	GASOLINE: AUTOMOTIVE (UNLEADED)
328652	02/28/1996	UNKNOWN	CUSHMAN	RAILROAD	LAND	AMMONIA, ANHYDROUS
724810	06/12/2004	UNNAMED PRIVATE CROSSING	DARLING	RAILROAD NON- RELEASE	RAIL REPORT (N/A)	(null)
78253	07/07/1991	(null)	GREGORY	RAILROAD NON- RELEASE	RAIL REPORT (N/A)	(null)
79345	07/14/1991	(null)	ROYALTON	RAILROAD NON- RELEASE	RAIL REPORT (N/A)	(null)
328626	02/28/1996	(null)	CUSHING	RAILROAD	N/A	AMMONIA, ANHYDROUS
328626	02/28/1996	(null)	CUSHING	RAILROAD	N/a	OTHER OIL - LP GAS

Source: U.S. Coast Guard, National Response Center
<http://www.nrc.uscg.mil/foia.html>

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY		DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
			IMPACT	AREA			
Transportation	< 1 Year	None	Minor	10 to 25%	> 24 Hours	High	High
Pipeline Accident	< 100 Years	None	Minor	10 to 25%	> 24 Hours	High	High
Fixed Facilities	< 100 Years	None	Minor	< 10%	> 24 Hours	High	High
Meth Labs	< 1 Year	> 12 Hours	Minor	< 10%	> 24 Hours	High	High
Nuclear Power	< 100 Years	3 to 6 Hours	Minor	10 to 25%	> 24 Hours	Limited	Limited

Most at Risk:

Areas along BNSF Corridor
 Areas along TH 10 Corridor
 Areas along TH 371 Corridor

Motley
 Cushing
 Randall
 Little Falls
 Royalton

Plans, Programs and Policies

MPCA
 MN Emergency Planning and Community Right-to-Know Act Program (EPCRA)
 Local fire, police, emergency medical
 Individual site plans

3.3.3 Dam Failure

Dam failure involves an unintended release or surge of impounded water due to collapse, damage, overtopping, and similar structural failure of a dam structure. Causes of dam failure include, but are not limited to gradual breakdown from normal aging, insufficient design or construction, lack of repair or maintenance, vandalism, blockage by debris, flooding, and similar causes. Failure of a dam can result in damage to or loss of life and property. A list of dams within Morrison County is provided below.

Dams and Control Structures

There are 10 dams in Morrison County. The locations of the dams and control structures are listed in Table 3.7.

Table 3.7
Dam Inventory

Dam No.	Name	Nearest City	Owner	Hazard
134	Rice-Skunk Lake	Royalton	State	3
240	Stanchfield Lake	Pillager	State	3
478	Gold Pond	Pillager	Don Gold	3
480	Loberg Wildlife Pond	Randall	Chester Loberg	3
481	Kurtz Pond	Center Valley	Richard Kurtz	3
599	Blanchard (Miss. River)	Little Falls	MN Power	3
600	Little Falls (Miss. River)	Little Falls	MN Power	3
608	Crow Wing River	Pillager	MN Power	2
713	Skunk River	Pierz	City of Pierz	2
715	Pierz Lake	Pierz	State	3

Source: Morrison County Water Plan; MN DNR

History

In the past any flooding event within Morrison County or downstream from the County has been caused by flooding overflow and not by structure failure of dams. In 2001, Mississippi River waters exceeded the controlled flow of the dam located in Little Falls which resulted in flooding along riverfront areas of the City and downstream.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Dam Failure < 100 Years	Minimal	Minor	10 to 25%	> 24 Hours	High	High	

Most at Risk:

Little Falls
Pillager
Areas along Mississippi River

Plans, Programs and Policies

Army Corps of Engineers
NATDAM database
Minnesota Department of Natural Resources

3.3.4 Groundwater Contamination and Depletion

Groundwater contamination includes the introduction of both point and non-point source pollutants into groundwater. Point source means any discernible, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well,

discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. Non-point source is a land management activity or land use activity that contributes or may contribute to ground and surface water pollution as a result of runoff, seepage, or percolation and that is not defined as a point source. This contamination also can be extended to include surface waters. For most of the county, individual wells draw from groundwater, however many exist throughout Morrison County cities and population concentrations. A list of municipal drinking water systems can be found in the community profile portion of this plan.

History

No previous occurrences.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNTY IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Water Contamination	< 100 Years	> 12 Hours	Major	> 50%	> 24 Hours	High	Minimal

Plans, Programs and Policies

Wellhead Protection Program
 Minnesota Department of Health
 Public Education Opportunities

3.3.5 Human-caused Hazards: Terrorism and Civil Disorder

Human caused hazards, including terrorism, are intentional, malicious, and often times criminal uses of force and violence to perpetrate disasters against persons and/or property. Terrorism, including domestic terrorism, are actions intended to intimidate or coerce a government or civilian population to further political or social objectives. These actions can be either domestic or international depending on the origin, base and objectives of the terrorist organizations or individuals perpetrated for personal reasons.

Terrorism hazards include, but are not limited to the use of weapons of mass destruction, including biological, chemical, and nuclear or radiological weaponry; arson, use of incendiary or explosive devices and armed attacks; industrial sabotage and intentional release of hazardous materials; and attacks on technology including computers through viruses or by other means commonly known as “cyberterrorism.”

History

No previous occurrences.

Risks and Vulnerabilities

HAZARD	FREQUENCY	WARNING	COUNT Y IMPACT	AREA	DURATION	RISK TO LIFE/INJURY	RISK TO PROPERTY
Terrorism	< 10 Years	Minimal	Major	> 50%	> 24 Hours	High	High
Civil Disorder	< 100 Years	Minimal	Minor	< 10%	1 to 12 Hours	Minimal	Minimal

Plans, Programs and Policies

Department of Homeland Security
 Minnesota Homeland Security and Emergency Management (HSEM)
 Local police, fire, emergency medical
 Individual public and private facilities
 Public education and awareness

4.0 ACTION PLAN [GOALS, OBJECTIVES, AND STRATEGIES]

4.1 Overview of Goals, Objectives, and Strategies

Eliminating or reducing the risks on persons, property, and the environment is the focus of the Morrison County Hazard Mitigation Plan. The goals and objectives presented within this section are intended to address natural, human-caused and technological hazards within the County before they occur through the use of local, state, and federal resources. To clarify the following action the following terms are defined:

GOAL: The overall desired effect including both long term or ongoing and terminal effects. For the purpose of this Section, goals are identified with a number.

COSTS: The estimated cost to achieve the corresponding objective.

OBJECTIVE: Actions or steps that will be taken to achieve the goal or desired effect. For the purpose of this plan, objectives are identified with a letter.

TASK LEADER: Either individual or collective responsible agency, department, organization, group, or person that will carry out the corresponding objective.

Planning and Zoning Department

Director: Roger Kuklok

Morrison County Government Center

213 SE 1st Avenue

Little Falls, MN 56345

Phone: (320) 632-0170

Office Hours: Monday-Friday from 8-4:30pm

Public Health Department

Director: Kirsten Hoese

200 East Broadway

Little Falls, MN 56345

Phone: (320) 632-6664

Office Hours: Monday-Friday from 8-4:30pm

Public Works Department

County Engineer: Steve Backowski

Little Falls Public Works Building

1208 West River Road

Little Falls, MN 56345

Phone: (320) 632-0121

Office Hours: Monday-Friday from 8-4:30pm

Information Systems Department

Director: Mike Disher

Morrison County Government Center

213 SE 1st Avenue

Little Falls, MN 56345

Phone: (320) 632-2941

Office Hours: Monday-Friday from 8-4:30pm

Sheriff’s Office

Sheriff: Michel Wetzel

213 SE 1st Avenue

Little Falls, MN 56345

Phone: (320) 632-9233

Jail: (320) 632-2673

TIMELINE: Date or timeframe the objective will be achieved in. If an objective is ongoing or no specific date can be set to carry out the objective then it is labeled as “ongoing.”

Prioritization of Action Items

Assigned Value

This section outlines the prioritization of the action items presented within this plan. Each action item or objective contained within this plan is assigned a prioritization value based on the following table. These values are ranked 1 to 6 with 1 being a “highest priority” value and 6 being the “least priority” value.

Priority	Category
1.	Policy Improvements: Includes making changes to any policy(ies) maintained by Morrison County.
2.	Process Improvements: Includes making changes to any programs or processes conducted by Morrison County.
3.	Physical Improvements: Includes any projects related to improvement of structures or physical terrain to minimize or eliminate hazards.
4.	Information Gathering: Includes any action related to the inventorying or gathering of information.
5.	Outreach Projects: Includes the dissemination of information to the public.
6.	Communication Efforts: Includes ongoing cooperation and communication with organizations/agencies external to Morrison County.

Prioritization by Time Schedule

Each action item presented within this section is scheduled for completion according to a specified timeline. All items of the same assigned value will be implemented according to the time schedule provided depending on the prioritization by costs.

Prioritization by Costs

Each action item is assigned an estimated cost. This estimate is purely a figure used to assess potential costs associated with the action item to be carried out and is not intended to represent any exact value or project cost. Cost benefit estimates were made on all action items during the development of this action plan. All action items of the same assigned value will be implemented contingent upon Morrison County securing any necessary funding. This means that if an action item is a #1 priority, is scheduled to be completed in 2005, but funding cannot be secured until 2007, the item must be held until 2007 to be completed.

A thorough cost benefit analysis to determine the cost benefit ratio will be conducted by the implementing agency prior to the implementation of each project derived from this plan.

4.2 Natural Hazard Goals, Objectives, and Strategies

Natural hazard mitigation measures presented throughout this planning process have been divided into the following groups:

- Summer Storms
- Flooding and Flash Flooding
- Windstorms
- Drought
- Wildfire
- Winter Storms
- Infectious Disease

4.2.1 Summer Storm Mitigation Plan

Resources:

NOAA National Weather
Service (NWS)

www.nws.noaa.gov or www.weather.gov

NWS Chanhassen Office

<http://www.crh.noaa.gov/mpx/>

USDA Storm Resources & Info

http://disaster.usda.gov/storm_jump.htm

The Weather Channel

www.weather.com

The Weather Underground Inc.

www.wunderground.com

Goal 1: Eliminate or reduce as much as feasible, risks associated with summer storms including thunderstorms, tornadoes, lightning, and hail on life and property

OBJECTIVES	TIMELINE								Ongoing	COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010			
a. Posters, brochures, media materials LEADER: Emergency Management and Media	5								X	\$2,000 Annually
b. Provide information on making structures safer: materials, building storm shelters, etc. LEADER: Emergency Management and Insurance Companies	5								X	\$500 Annually
c. Require storm shelters for all mobile home parks, multiple family dwellings LEADER: Public Health and Emergency Management	1								X	\$1,000 Next 10 Years
d. Encourage NWS weather radio use LEADER: Emergency Management and National Weather Service	5								X	\$250 Each Spring
e. Continue to upgrade and improve Emergency Warning Systems LEADER: Emergency Management Director	2, 3								X	\$25,000 As funding is available

4.2.2 *Flooding and Flash Flooding Mitigation Plan*

Goal 1: Eliminate or reduce as much as feasible, risks associated with flooding on life and property

OBJECTIVES	TIMELINE								COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Restrict building in floodplain areas that consistently flood – Includes cities LEADER: County and City Planning & Zoning	1							X	\$2,500 Next 10 years
b. Encourage development of parks and open space areas along floodplain areas that consistently flood LEADER: County and City Planning & Zoning	3							X	\$100,000 Next 10 years
c. Continue to update Emergency Operation Plan annually LEADER: Emergency Management	1							X	\$2,500 Annually
d. Encourage early participation of individual landowners in the FEMA National Flood Insurance Program by persons within floodplain areas LEADER: County and City Planning & Zoning, Emergency Management, Insurance Companies	5							X	\$500 Ongoing

Goal 2: Eliminate or reduce as much as feasible, risks associated with flash floods on life and property

OBJECTIVES	TIMELINE								COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Provide public education on dangers of flash flooding LEADER: Emergency Management and the Media	5							X	\$5,000

b. Encourage municipalities to require the development of new storm sewer infrastructure capable of handling a ten to twenty year rain event in new subdivisions LEADER: Cities (Public Works/Engineering) in cooperation with State/Federal programs and agencies	3								X	\$1,000,000+ Ongoing
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4.2.3 *Windstorms Mitigation Plan*

Goal 1: Eliminate or reduce as much as feasible, risks associated with windstorms on life and property

OBJECTIVES	TIMELINE								Ongoing	COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010			
a. Recommend the use of windbreaks in all new development where natural or man-made windbreaks do not exist LEADER: Soil & Water Conservation District	3								X	\$50,000 Annually
b. Provide public education on the dangers of wind, especially winds associated with thunderstorm activity LEADER: Emergency Management and Media	5								X	\$2,500 Annually
c. Provide information on reinforcement measures that can be taken by landowners to prevent damage caused by wind LEADER: State Department of Administration Building Codes & Standards Division	5	X	X	X	X	X	X	X		\$3,000+ Annually

4.2.4 Drought Mitigation Plan

Resources:

- NOAA Drought Info Center <http://www.drought.noaa.gov/>
 National Drought Mitigation Center <http://www.drought.unl.edu/index.htm>
 U.S. Drought Monitor <http://www.drought.unl.edu/dm/monitor.html>
 USDA Drought Resources & Info http://disaster.usda.gov/drought_jump.htm

Goal 1: Eliminate or reduce as much as feasible, risks associated with drought on agriculture

OBJECTIVES	TIMELINE								COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Encourage the wise utilization of water resources regardless of time of year LEADER: Individual Communities, Planning & Zoning, Soil & Water Conservation District	5								
b. Implement local regulation of water usage as necessary to alleviate drought LEADER: Individual Communities, County Planning & Zoning	1							X	\$5,000 Ongoing through 2025

4.2.5 Wildfire Mitigation Plan

Resources:

National Interagency Fire Center <http://www.nifc.gov/>
 FEMA Wildfire Information <http://www.fema.org/hazards/fires/wildfires.shtm>
 Minnesota DNR Wildfire <http://www.dnr.state.mn.us/forestry/fire/index.html>
 USDA Fire Resources & Info http://disaster.usda.gov/fire_jump.htm

Goal 1: Continue strong wildfire prevention measures

OBJECTIVES	TIMELINE								COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Continue to provide public education materials related to the prevention of forest fires and wildfire LEADER: Emergency Management, DNR Forestry, Fire Departments	5							X	\$2,500 Bi-Annually
b. Continue to conduct controlled burns as necessary to prevent the spread of wildfires LEADER: DNR Forestry	2							X	Unknown
c. Ensure the strong coordination between local fire departments and associations as well as those from outside areas to provide fire protection, which will reduce the impact of wildfires LEADER: DNR Forestry and Fire Departments	2							X	Unknown
d. Promote positive forestry management techniques including the removal of dead, dry vegetation and trees which may ignite as a result of lightning or human related causes LEADER: DNR Forestry	2					X			Unknown
e. Encourage the use of landscape design that will minimize the risk of wildfire LEADER: DNR Forestry, County and City Planning & Zoning	3						X		\$2,500

f. Continue to monitor the removal of trees and vegetation around electrical lines and if possible bury electrical lines LEADER: Power Companies	3									X	Unknown
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4.2.6 Winter Storms Mitigation Plan

Goal 1: Prevent or minimize the impacts of winter storm activity and cold weather events on infrastructure including individual septic treatment systems

OBJECTIVES	TIMELINE									COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	Costs & Timeline Notes	
a. Draw upon local and hazard mitigation funding to ensure power infrastructure can withstand ice storm conditions LEADER: Power Companies	3	X	X	X	X	X	X	X	X	\$1,000,000+ Ongoing
b. Provide information to landowners with Individual Septic Treatment Systems on ways to protect their systems from extreme cold LEADER: Planning & Zoning	5		X							\$5,000

Goal 2: Eliminate or reduce as much as feasible, the impacts of winter storm activity and cold weather events on roadways

OBJECTIVES	TIMELINE									COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	Costs & Timeline Notes	
a. Encourage the planting of natural vegetation or the placement of snow fences or similar devices along roadways to minimize snow accumulation LEADER: Public Works Departments (County, City, and Township), Individual Landowners	3				X					\$250,000 Anticipated Start 2008

b. Continue providing exceptional snow removal, salting, and sanding to minimize the impacts of snow accumulations on roadways LEADER: Public Works Departments (County, City, and Township)	3								X	\$100,000

Goal 3: Eliminate or reduce as much as feasible, the impacts of winter storm activity and cold weather events on property

OBJECTIVES	TIMELINE								Ongoing	COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010			
a. Provide information on building materials and practices that increase structural safety, and increase energy conservation in cold weather conditions LEADERS: State Department of Administration Building Codes and Standards Division, Local Building Departments, Emergency Management, Media	5								X	\$5,000
b. Encourage the planting of trees and natural vegetation in new development to minimize large snow accumulation LEADERS: County Planning & Zoning	3				X					\$5,000 Begin 2008

Goal 4: Eliminate or reduce as much as feasible, risks associated with winter storm activity on life

OBJECTIVES	TIMELINE								Ongoing	COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010			
a. Provide public education on staying safe during cold weather and winter storm events including information on safety kit items and where to purchase them locally LEADERS: Emergency Management and Media	5								X	\$500

4.2.7 *Infectious Disease Mitigation Plan*

Resources:

Minnesota Department of Health <http://www.health.state.mn.us/divs/idepc/>
 Infectious Disease Epidemiology, Prevention and Control Division
 Centers for Disease Control <http://www.bt.cdc.gov/index.asp>
 Emergency Preparedness and Response

Goal 1: Foster and support health related programs related to the mitigation or planning for infectious disease.

OBJECTIVES	TIMELINE								COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Encourage the continued cooperation between Morrison County Public Health Department and the Minnesota Department of Health. LEADER: Public Health	6							X	\$10,000 No timeline specified

4.3 Human Cause/Technological Goals, Objectives, and Strategies

Human caused and technological hazard mitigation measures presented throughout this planning process have been divided into the following groups:

- Structure Fires
- Hazardous Materials
- Dam Failure
- Groundwater Contamination
- Terrorism and Civil Disorder
- Transportation Accidents

4.3.1 Structure Fires Mitigation Plan

Goal 1: Continue to provide financial support, assistance and coordination to local fire departments and associations

OBJECTIVES	TIMELINE							Ongoing	COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010		
a. Continue to monitor state and federal funding sources to secure additional emergency response equipment and personnel. LEADERS: First Response Agencies, Emergency Management, Fire Departments, Law Enforcement Agencies (County & Local)	4							X	\$50,000 Ongoing
b. Continue to host regular meetings of local fire chiefs and other emergency response personnel. LEADERS: Emergency Management and Public Health	2							X	\$2,500 Annually

Goal 2: Minimize impacts of structure fires on life and property

OBJECTIVES	TIMELINE								COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Provide public education related to fire safety and prevention. LEADERS: Fire Departments	5							X	\$5,000+ Annually
b. Recommend the use of building materials and practices that will minimize the risk of fire. LEADERS: State Department of Administration Building Codes and Standards Division, Local Building Departments	5							X	Unknown
c. Encourage the adoption and enforcement of the Minnesota State Building Code by Morrison County Municipalities either individually or through the joint organization of municipalities LEADERS: State Department of Administration Building Codes and Standards Division, Planning & Zoning	1		X	X	X				\$2,500 to \$5,000
d. Explore the adoption and enforcement of the State of Minnesota building code by Morrison County LEADERS: County Board, Planning & Zoning, State Department of Administration Building Codes and Standards Division	1							X	\$25,000+ Long Term 2010+

4.3.2 Hazardous Materials Mitigation Plan

Resources:

National Response Center
 Department of Transportation
 Disaster Help

<http://www.nrc.uscg.mil/nrchp.html>

<http://hazmat.dot.gov/>

www.disasterhelp.gov

Minnesota Emergency Planning and Community
 Right-to-Know Act Program

<http://www.epcra.state.mn.us/>

Goal 1: Ensure safe transportation of materials through pipelines, roadways, and rail corridors in Morrison County

OBJECTIVES	TIMELINE								COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
									Costs & Timeline Notes
a. Coordinate with the MPCA, MNDOT, Federal DOT, Local Emergency Response Agencies, companies, and other agencies on transportation of hazardous materials. LEADERS: Emergency Management and all entities listed above	6							X	\$5,000 Long Term Costs

Goal 2: Ensure the safe operation, storage, and maintenance of facilities holding, distributing, or using hazardous material substances

OBJECTIVES	TIMELINE								COSTS
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
									Costs & Timeline Notes
a. Maintain an updated list of all hazardous materials sites as required by the Minnesota Emergency Response Commission LEADERS: Emergency Management and Facilities	2							X	\$1,000
b. Ensure all fire, police, and medical emergency response professionals are trained and equipped to respond to hazardous material incidents LEADERS: Individual Departments	2							X	\$2,500+ Annually

c. Provide public education on hazardous material incidents in the form of media releases, articles, Morrison County Website, etc. LEADERS: Emergency Management and Individual Emergency Response Agencies	5								X	\$5,500 Annually
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4.3.3 Dam Failure Mitigation Plan

Resources:

Association of State Dam Safety Officials <http://www.damsafety.org/>

Minnesota DNR, Division of Waters, Dam Safety
http://www.dnr.state.mn.us/waters/surfacewater_section/damsafety/index.html

Goal 1: Eliminate or reduce as much as feasible, risks associated with the failure of dams within Morrison County

OBJECTIVES	TIMELINE								COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Maintain contact and coordination with the Minnesota Dam Safety Official LEADERS: Individual Power Companies and Dam Owners, Emergency Management	6							X	Minimal
b. Establish a notification procedure in the event of an expected, inevitable dam failure event for all “1” and “2” classified dams within the County LEADERS: Emergency Management, Individual Community Emergency Response Agencies	2						X		\$10,000

4.3.4 Groundwater and Surface Water Contamination Mitigation Plan

Resources:

Environmental Protection Agency www.epa.gov
 Minnesota Pollution Control Agency www.pca.state.mn.us
 MN Department of Agriculture <http://www.mda.state.mn.us/appd/waterprotect.htm>
 Minnesota Department of Health <http://www.health.state.mn.us/divs/eh/groundwater/programs.html>

Goal 1: Eliminate or reduce as much as feasible, risks associated with groundwater contamination

OBJECTIVES	TIMELINE								COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
a. Monitor water quality data as observed by the Minnesota DNR, Department of Health, local property owners associations, lakes associations, and similar groups LEADERS: Soil and Water Conservation Districts, DNR, Planning & Zoning	2		X					X	\$5,000 Ongoing beginning 2006
b. Encourage the development of local wellhead protection plans with the assistance of the Minnesota Department of Health. LEADERS: Minnesota Department of Health, Local and County Planning & Zoning	1		X	X	X				\$5,000
c. Support by providing public education and assistance to existing programs designed to provide support and education to landowners for individual well testing LEADERS: Soil and Water Conservation District, Planning & Zoning, Minnesota Department of Health	5	X						X	\$3,000 Beginning 2005

Goal 2: Eliminate or reduce as much as feasible, risks associated with surface water contamination

OBJECTIVES	TIMELINE								Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing	
<p>a. Provide support and assistance to local governments, property associations, lakes associations or similar groups in the development and implementation of local surface water management plans and in water quality related public education</p> <p>LEADER: Planning & Zoning</p>	5							X	\$20,000 over 10 Years
<p>b. Implement the goals, objectives, and policies of the Morrison County Water Plan</p> <p>LEADER: Planning & Zoning, Soil & Water Conservation District</p>	1	X	X	X	X				\$50,000 beginning 2004

4.3.5 Human-cased Hazard: Terrorism and Civil Disorder Mitigation Plan

Resources:

Disasterhelp.gov www.disasterhelp.gov
 Department of Homeland Security www.dhs.gov
 Ready.Gov www.ready.gov
 Minnesota Homeland Security & Emergency Management www.hsem.state.mn.us

Goal 1: Eliminate or reduce as much as feasible, risks associated with terrorism and civil disorder

OBJECTIVES	TIMELINE									COSTS Costs & Timeline Notes
	PRIORITY	2005	2006	2007	2008	2009	2010	Ongoing		
a. Restrict access to critical infrastructure such as public water supplies, water treatment facilities, Little Falls Dam, and similar facilities. LEADERS: Emergency Management, Sheriff Department, Local Public Works and Law Enforcement	1	X	X	X	X	X	X	X	X	\$100,000+ over 10 years
b. Increase security at public gathering places primarily at public events LEADERS: Local Law Enforcement, Sheriff Department, Emergency Management	2	X							X	\$50,000 beginning 2005
c. Coordinate with local and County law enforcement, emergency management, Federal and State Homeland Security Departments and similar agencies on counter-terrorism activities. LEADERS: Mentioned above	6	X							X	\$5,000 beginning 2005

4.4 Potential Funding Sources

Implementation of the mitigation strategies is often dependent on funding assistance from Federal and State sources. FEMA provides funding for structural projects through hazard mitigation grant programs, such as the Hazard Mitigation Grant Program, Pre-Disaster Mitigation Assistance Program, and the Flood Mitigation Assistance Program. Strategies that qualify for FEMA assistance include structural improvements to dams, bridges, culvert replacement, as well as emergency generators and warning sirens. Financial support for other mitigation strategies proposed in this plan may be sought through alternative funding sources. Projects may be implemented with the assistance of non-profit organizations, or funds secured from Community Foundations. There are many State and Federal programs, in addition to private funding sources, that are available. A summary table of sources is provided as Appendix I.

Many communities believe they are unable to take steps in preventing damage from hazards due to lack of funding. Appendix I is intended to provide some examples of funding options. This list is not comprehensive and should be added to when new funding programs are created and recognized.

4.5 Hazard Mitigation Projects

As a component of the Morrison County hazard mitigation planning process communities within the County, as well as the County itself, identified several projects that will prevent or lessen the impacts of potential hazards. These projects are identified in the table beginning on page 102 of this plan.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Upsala	Alley Runoff	City of Upsala	\$10,000	Local	2005	Flooding of residents' yards	No		The runoff from the street will be re-routed or piped to a storm sewer
City of Upsala	Tower Road reconstruction project	Tower Road (City of Upsala)	\$10,000	Local	2004	Traffic Accidents	No		Improve the road surface; fill in holes and road roughness due to frost

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Upsala	City Wastewater Pond Discharge	North end of City	Several Hundred Thousand Dollars	Local	2006	Flooding of fields and residences	No		Currently when water is discharged from the wastewater ponds it drains away very slowly. The drainage ditch that was designed to carry the discharge to another stream does not adequately provide drainage as needed and will need improvements. This project is particularly sensitive due to area wetlands.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Upsala	50th Avenue Road Upgrade and Improvements	50th Avenue South of Walnut Avenue (City of Upsala)	\$20,000	Local	2005	Flooding of Roadway	No		The road (gravel) and adjacent ditches are about the same level. In some cases the road is lower than the ditch. Commonly, there is standing water on the road which has caused soft spots on the roadway.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Randall	Purchase properties within floodplain areas. One property is industrial (junk yard) and the other is a mobile home park.	Between Highway 10 and Superior Avenue on the south side of the Little Elk River within the River's floodplain			2004-2006	Flooding of an industrial property and a mobile home park	No		The two properties intended to be purchased lie within a floodplain area of the little Elk River. These properties consistently flood every two to three years. The junkyard within the industrial property also poses additional risk to groundwater contamination and other environmental impacts. Purchasing these

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
Public Works	County Road 257/Skunk River	Pierz Township	\$300,000	State, Local	Unknown	Flood reduction	Yes	2002	Flooding occurs at this location during high rain fall events. Project would be intended to reduce loss of roadway and safety improvements during flood events.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
Public Works	County State Aid Highway 38/ Skunk River	Pierz Township	\$300,000	State, Local	Unknown	Flood reduction	Yes	2002	Flooding occurs at this location during high rain fall events. Project is complicated due to its proximity to State Highway 25 and residential development. Project would be intended to reduce loss of roadway and safety improvements during flood events.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
Public Works	County Road 263/ Unnamed stream	Belle Prairie Township	\$150,000	State, Local	2008	Flood reduction	Yes	2002	Project will improve the capacity of the crossing of the unnamed stream and County road 263 resulting in a reduction of the loss of roadway during a flood event.
Public Works	County road 266/ Little Mink Creek	Little Mink Creek Crossing/ Buh Township	\$125,000	State, Local	2006	Flood reduction	Yes	2002	Project will improve the capacity of the crossing of the Little Mink Creek and County Road 266 resulting in the reduction of the loss of roadway during a flood event.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
Public Works	County Road 278/ Big Mink Creek	Big Mink Creek Crossing/ Buh Township	\$25,000	Local	2008	Flood reduction	Yes	2002	Project will improve capacity of crossing of the Big Mink Creek and County Road 278. Resulting in reduction in loss of roadway during a flood event.
Public Works	Demolition Debris Landfill expansion	Little Falls Township	\$50,000	Local	2004	Preparation for debris disposal from storms or tornado	No		Project will provide a permitted disposal site for materials that have been destroyed during a flood, storm or tornado event.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
Public Works	Fletcher Creek Flood Mitigation	Belle Prairie Township	\$1,200,000	State, Local	Fall 2004- Summer 2005	Flooding	Yes	1972,2002,2003	Project will provide a direct outlet to the Mississippi River for much higher volumes of water thus eliminating over topping of the channel.
Public Works	County Road 234 Construction	Buckman Township	\$1,000,000	State	2009	Flood Reduction, Traffic Accidents	Yes	2002	Construction of a five mile segment of highway that currently overflows with water at several locations during heavy rainfalls.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Little Falls	Lift Station	Approximate 6.48 acre parcel of land behind 706 Ave, Sec. 18, TWP 040 R. 032, Lot 1	\$50,000	Federal, State and Local	2010	Flooding and access to wastewater lift station	No		To prevent flooding of the adjoining residential property and secure access to the wastewater lift station no.1 and adjoining trunk lines.
City of Little Falls	Creameries Blending Site	Located between Fifth and Sixth streets and between Third and Fourth Avenues Northeast	\$500,000.00	Federal, State and Local	2015	To clean up any spills of the herbicides, pesticides and / or other chemicals used at the facility	No		By purchasing / securing the property, and relocating the business to a non-residential neighborhood the existing facilities and grounds would be restored.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Little Falls	Groundwater Concerns (intersection of Second Avenue and First Street Southeast), where three former gas stations were located, and on abandoned.	Blocks 4,5,20, and 21, Original Plat	\$200,000.00	Federal, State, Local, Private	2015	Groundwater contamination from gas tanks	No		Pollution to groundwater, health concerns to area residents and businesses.
City of Little Falls	Storm Water Drainage Basins	On Lindbergh Drive South near Third Street Southwest and near Tenth Street Southwest.	\$200,000.00	Federal, State, Local, Private	2015	Prevent polluting the Mississippi River.	No		The storm water drainage basins will prevent oils, debris, sand, and garbage from entering into the Mississippi River by collecting in basins first.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Little Falls	Wellhead Protection Area	North of Sixth Avenue Northeast, South of County Road 46, East of Lindbergh Drive North, and West of County Road 43	\$500,000.00	Federal, State and Local	2015	To lessen and or eliminate any contaminated well water from reaching the aquifers from which the city draws its well water.	No		By identifying and cleaning up contamination spots, (i.e. wells, spills, etc.), the aquifer will be protected.
City of Little Falls	Railroad Relocation	From West Little Falls over to Trunk Highway 10 Alignment	\$46,000,000	Federal, State and Local	2025	Sound pollution, traffic backup, and accidents.	No		It will save all of Little Falls residents, businesses, and visitors from accidents, time delays, noise pollution and a lot of aggravation.

City of Little Falls	Old City Dump Site	Southerly 500 feet of Lots 3 and 4, Herrick's Outlots to City, located in Section 18, Township 40, Range 30	\$200,000.00	Federal, State, Local, Private	2025	If Minnesota Pollution Control Agency changes rules, something else will need to be done at the old dump site, (i.e. water table concerns)	No	The old dump has been identified, boundaries clarified, dig sites re-evaluated, water samples, and nothing has been found to date. However, if guidelines change or other concerns develop, the City may be required to re-define and retest or recap etc. etc., in order to protect adjoining properties with wells.
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LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Little Falls	Groundwater Concerns (near intersection of Broadway and Lindbergh Drive)	Between First and Fourth Streets West and between Second Avenues Northwest and Southwest	\$500,000.00	Federal, State, Local, Private	2025	Petroleum products in the ground	No		To remove the petroleum products from the ground will be healthier for residents and businesses in the area. Their concerns with ground water contamination.
City of Little Falls	500 West Broadway (former IGA building)	All of Black 59, Thayer's Addition between Broadway and First Avenues Southwest and between Fifth and Sixth Streets Southwest	\$150,000.00	State and Local	2010	Solvents from dry cleaning process, hazardous chemicals	No		By removing the hazardous chemicals it will remove a health hazard to individuals using the buildings and will removed a pollution source from the groundwater.

LUG/County Department	Project Name	Location of Project	Estimated Project Cost	Project Funding Sources	Project Timeline	Type of Hazard Addressed	Federal Funding?	Year Rec'd	How will this project prevent or lessen impacts of identified hazard?
City of Little Falls	Flooding Areas	Block 32, Original Plat, located between Second and Third Streets Northeast and between First and Second Avenues Northeast	\$200,000.00	Federal, State, Local, Private	2015	Flooding to businesses within Block 32, Original Plat	No		By replacing storm sewer pipes with larges structures, the flooding would be stopped.

5.0 APPENDICES

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APPENDIX B:	Demographic Information for Townships	B-1
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City of Bowlus

Population

	Number	Percent %
1970	268	
1980	276	
1990	260	
2000	260	
2002	256	
Percent % of Change 1990-2000	0	0.00%
Percent % of Change 1970-2000	-8	-2.99%
65 and Over of 2000 Population	50	19.23%
85 and Over of 2000 Population	13	5.00%

Population By Race

	Number	Percent %
White	260	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	260	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	1.06%
7th to 8th grade	33	17.46%
9th grade	7	3.70%
10th grade	4	2.12%
11th grade	4	2.12%
12th grade, no diploma	7	3.70%
High school graduate (include equivalency)	85	44.97%
Some college, less than 1 year	7	3.70%
Some college, 1 or more years, no degree	10	5.29%
Associate degree	14	7.41%
Bachelor's degree	11	5.82%
Master's degree	2	1.06%
Professional school degree	0	0.00%
Doctorate Degree	3	1.59%
Total	189	100.00%

Housing

	Number	Percent %
Number of Households	105	
Persons per Household	2.48	
Number of Housing Units	111	
Vacant Units Non Seasonal	6	5.41%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	89	80.18%
Renter Occupied Units	16	14.41%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	3	2.63%
Built 1995 to 1998	8	7.02%
Built 1990 to 1994	3	2.63%
Built 1980 to 1989	8	7.02%
Built 1970 to 1979	15	13.16%
Built 1960 to 1969	13	11.40%
Built 1950 to 1959	4	3.51%
Built 1940 to 1949	6	5.26%
Built 1939 and Earlier	54	47.37%
Total	114	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	1.75%
Bottled, tank, or LP gas	47	41.23%
Electricity	6	5.26%
Fuel Oil, kerosene, etc.	44	38.60%
Coal or coke	0	0.00%
Wood	15	13.16%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	114	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	10,992,700
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Economic Development

	Number
Average Income	34,117
Median Income	32,222
Per Capita Income	13,868
2000 Population	260
Total Income	4,021,600

Poverty

	Number
Income below poverty level	25
Income at or above poverty level	91

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	2	2.86%
Agriculture, forestry, fishing and hunting	0	0.00%
Mining	0	0.00%
Construction	10	14.29%
Manufacturing	27	38.57%
Wholesale trade	0	0.00%
Retail trade	11	15.71%
Transportation and warehousing, and utilities	2	2.86%
Transportation and warehousing	2	2.86%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	5	7.14%
Professional ,scientific, and technical services	3	4.29%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	2.86%
Educational, health and social services	4	5.71%
Educational services	4	5.71%
Health care and social assistance	0	0.00%
Arts, entertainment, recreation, accommodation and food services	2	2.86%
Arts, entertainment, and recreation	2	2.86%
Accommodation and food services	0	0.00%
Other services	7	10.00%
Pubic Administration	0	0.00%
Total	70	100.00%

Top 3 Employers

	Number of Employees
Reis Lumbert Constructuion	6
Longtime Saloon	3
Bowlus Liquor	2
	11

Transportation

	Number	Percent %
Car, Truck or van	127	93.38%
Drive alone	106	77.94%
Carpooled	21	15.44%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	3	2.21%
Other means	0	0.00%
Worked at home	6	4.41%
Total	136	100.00%

Mean Travel Time to Work	27.7
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City of Buckman

Population

	Number	Percent %
1970	158	
1980	171	
1990	201	
2000	208	
2002	217	
Percent % of Change 1990-2000	7	3.48%
Percent % of Change 1970-2000	50	31.65%
65 and Over of 2000 Population	35	16.83%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	208	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	208	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	9	8.26%
9th grade	2	1.83%
10th grade	0	0.00%
11th grade	3	2.75%
12th grade, no diploma	2	1.83%
High school graduate (include equivalency)	47	43.12%
Some college, less than 1 year	18	16.51%
Some college, 1 or more years, no degree	17	15.60%
Associate degree	5	4.59%
Bachelor's degree	0	0.00%
Master's degree	2	1.83%
Professional school degree	4	3.67%
Doctorate degree	0	0.00%
Total	109	100.00%

Housing

	Number	Percent %
Number of Households	73	
Persons per Household	2.85	
Number of Housing Units	75	
Vacant Units Non Seasonal	2	2.67%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	64	85.33%
Renter Occupied Units	9	12.00%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	2.82%
Built 1995 to 1998	4	5.63%
Built 1990 to 1994	3	4.23%
Built 1980 to 1989	9	12.68%
Built 1970 to 1979	12	16.90%
Built 1960 to 1969	0	0.00%
Built 1950 to 1959	16	22.54%
Built 1940 to 1949	1	1.41%
Built 1939 and Earlier	24	33.80%
Total	71	100.00%

Heating Method

	Number	Percent %
Utility Gas	47	68.12%
Bottled, tank, or LP gas	4	5.80%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	16	23.19%
Coal or coke	0	0.00%
Wood	2	2.90%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	69	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	10,638,000
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Economic Development

	Number
Average Income	39,768
Median Income	32,500
Per Capita Income	13,700
2000 Population	208
Total Income	2,794,900

Poverty

	Number
Income below poverty level	8
Income at or above poverty level	60

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	14	16.67%
Agriculture, forestry, fishing and hunting	14	16.67%
Mining	0	0.00%
Construction	16	19.05%
Manufacturing	11	13.10%
Wholesale trade	0	0.00%
Retail trade	14	16.67%
Transportation and warehousing, and utilities	2	2.38%
Transportation and warehousing	2	2.38%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	4	4.76%
Finance and insurance	4	4.76%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	4	4.76%
Professional ,scientific, and technical services	4	4.76%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	0	0.00%
Educational services	0	0.00%
Health care and social assistance	0	0.00%
Arts, entertainment, recreation, accommodation and food services	1	1.19%
Arts, entertainment, and recreation	1	1.19%
Accommodation and food services	0	0.00%
Other services	0	0.00%
Pubic Administration	0	0.00%
Total	84	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	72	88.89%
Drive alone	58	71.60%
Carpooled	14	17.28%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	2	2.47%
Other means	2	2.47%
Worked at home	5	6.17%
Total	81	100.00%

Mean Travel Time to Work	20.3
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City of Elmdale

Population

	Number	Percent %
1970	116	
1980	126	
1990	130	
2000	107	
2002	99	
Percent % of Change 1990-2000	-23	-17.69%
Percent % of Change 1970-2000	-9	-7.76%
65 and Over of 2000 Population	17	15.89%
85 and Over of 2000 Population	3	2.80%

Population By Race

	Number	Percent %
White	107	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	107	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	18	25.71%
9th grade	2	2.86%
10th grade	0	0.00%
11th grade	2	2.86%
12th grade, no diploma	7	10.00%
High school graduate (include equivalency)	18	25.71%
Some college, less than 1 year	11	15.71%
Some college, 1 or more years, no degree	3	4.29%
Associate degree	5	7.14%
Bachelor's degree	2	2.86%
Master's degree	2	2.86%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	70	100.00%

Housing

	Number	Percent %
Number of Households	39	
Persons per Household	2.49	
Number of Housing Units	46	
Vacant Units Non Seasonal	2	4.35%
Vacant Units Seasonal	1	2.17%
Owner Occupied Units	38	82.61%
Renter Occupied Units	5	10.87%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	3	6.25%
Built 1990 to 1994	0	0.00%
Built 1980 to 1989	0	0.00%
Built 1970 to 1979	8	16.67%
Built 1960 to 1969	7	14.58%
Built 1950 to 1959	5	10.42%
Built 1940 to 1949	9	18.75%
Built 1939 and Earlier	16	33.33%
Total	48	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	13	32.50%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	16	40.00%
Coal or coke	0	0.00%
Wood	11	27.50%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	40	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	6,539,900
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Economic Development

	Number
Average Income	32,882
Median Income	38,125
Per Capita Income	12,504
Total Population	107
Total Income	1,262,900

Poverty

	Number
Income below poverty level	8
Income at or above poverty level	31

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	13	26.53%
Agriculture, forestry, fishing and hunting	13	26.53%
Mining	0	0.00%
Construction	2	4.08%
Manufacturing	9	18.37%
Wholesale trade	0	0.00%
Retail trade	2	4.08%
Transportation and warehousing, and utilities	2	4.08%
Transportation and warehousing	2	4.08%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	2	4.08%
Professional ,scientific, and technical services	2	4.08%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	3	6.12%
Educational services	0	0.00%
Health care and social assistance	3	6.12%
Arts, entertainment, recreation, accommodation and food services	0	0.00%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	0	0.00%
Other services	4	8.16%
Pubic Administration	2	4.08%
Total	49	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	40	81.63%
Drive alone	36	73.47%
Carpooled	4	8.16%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	9	18.37%
Total	49	100.00%

Mean Travel Time to Work	42.9
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City of Flensburg

Population

	Number	Percent %
1970	259	
1980	256	
1990	213	
2000	244	
2002	242	
Percent % of Change 1990-2000	31	14.55%
Percent % of Change 1970-2000	-15	-5.79%
65 and Over of 2000 Population	39	15.98%
85 and Over of 2000 Population	2	0.82%

Population By Race

	Number	Percent %
White	239	97.95%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	2	0.82%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	3	1.23%
Total	244	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	21	12.80%
9th grade	1	0.61%
10th grade	5	3.05%
11th grade	2	1.22%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	99	60.37%
Some college, less than 1 year	5	3.05%
Some college, 1 or more years, no degree	6	3.66%
Associate degree	8	4.88%
Bachelor's degree	13	7.93%
Master's degree	4	2.44%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	164	100.00%

Housing

	Number	Percent %
Number of Households	89	
Persons per Household	2.71	
Number of Housing Units	92	
Vacant Units Non Seasonal	2	2.17%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	75	81.52%
Renter Occupied Units	14	15.22%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	4	4.44%
Built 1990 to 1994	0	0.00%
Built 1980 to 1989	3	3.33%
Built 1970 to 1979	20	22.22%
Built 1960 to 1969	8	8.89%
Built 1950 to 1959	10	11.11%
Built 1940 to 1949	6	6.67%
Built 1939 and Earlier	39	43.33%
Total	90	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	19	21.11%
Electricity	4	4.44%
Fuel Oil, kerosene, etc.	54	60.00%
Coal or coke	0	0.00%
Wood	13	14.44%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	90	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	0	0.00%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	3	100.00%
Total	3	100.00%

Market Values

Estimated Market Value	11,857,100
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Economic Development

	Number
Average Income	45,109
Median Income	34,107
Per Capita Income	15,652
Total Population	244
Total Income	4,053,900

Poverty

	Number
Income below poverty level	10
Income at or above poverty level	79

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	14	11.48%
Agriculture, forestry, fishing and hunting	14	11.48%
Mining	0	0.00%
Construction	3	2.46%
Manufacturing	26	21.31%
Wholesale trade	3	2.46%
Retail trade	15	12.30%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	6	4.92%
Finance and insurance	5	4.10%
Real estate and rental and leasing	1	0.82%
Professional , scientific, management, administrative, and waste management services	13	10.66%
Professional ,scientific, and technical services	13	10.66%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	10	8.20%
Educational services	4	3.28%
Health care and social assistance	6	4.92%
Arts, entertainment, recreation, accommodation and food services	4	3.28%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	4	3.28%
Other services	7	5.74%
Pubic Administration	11	9.02%
Total	122	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	92	76.67%
Drive alone	72	60.00%
Carpooled	20	16.67%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	11	9.17%
Other means	0	0.00%
Worked at home	17	14.17%
Total	120	100.00%

Mean Travel Time to Work	26.2
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City of Genola

Population

	Number	Percent %
1970	97	
1980	83	
1990	85	
2000	71	
2002	69	
Percent % of Change 1990-2000	-14	-16.47%
Percent % of Change 1970-2000	-26	-26.80%
65 and Over of 2000 Population	17	23.94%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	71	100.00%
Black or African American	0	0.00%
American Indian or alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Oher Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	71	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	5	11.11%
9th grade	0	0.00%
10th grade	0	0.00%
11th grade	2	4.44%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	25	55.56%
Some college, less than 1 year	5	11.11%
Some college, 1or more years, no degree	4	8.89%
Associate degree	0	0.00%
Bachelor's degree	3	6.67%
Master's degree	0	0.00%
Professional school degree	1	2.22%
Doctorate degree	0	0.00%
Total	45	100.00%

Housing

	Number	Percent %
Number of Households	27	
Persons per Household	2.63	
Number of Housing Units	27	
Vacant Units Non Seasonal	0	0.00%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	21	77.78%
Renter Occupied Units	6	22.22%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	0	0.00%
Built 1990 to 1994	0	0.00%
Built 1980 to 1989	0	0.00%
Built 1970 to 1979	2	6.45%
Built 1960 to 1969	2	6.45%
Built 1950 to 1959	12	38.71%
Built 1940 to 1949	4	12.90%
Built 1939 and Earlier	11	35.48%
Total	31	100.00%

Heating Method

	Number	Percent %
Utility Gas	27	87.10%
Bottled, tank, or LP gas	2	6.45%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	2	6.45%
Coal or coke	0	0.00%
Wood	0	0.00%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	31	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	4,662,300
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Economic Development

	Number
Average Income	38,303
Median Income	33,750
Per Capita Income	15,796
Total Population	71
Total Income	1,105,700

Poverty

	Number
Income below poverty level	0
Income at or above poverty level	30

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	0	0.00%
Agriculture, forestry, fishing and hunting	0	0.00%
Mining	0	0.00%
Construction	4	14.81%
Manufacturing	12	44.44%
Wholesale trade	0	0.00%
Retail trade	0	0.00%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	2	7.41%
Professional ,scientific, and technical services	0	0.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	7.41%
Educational, health and social services	9	33.33%
Educational services	0	0.00%
Health care and social assistance	9	33.33%
Arts, entertainment, recreation, accommodation and food services	0	0.00%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	0	0.00%
Other services	0	0.00%
Pubic Administration	0	0.00%
Total	27	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	24	88.89%
Drive alone	21	77.78%
Carpooled	3	11.11%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	3	11.11%
Total	27	100.00%

Mean Travel Time to Work	44.2
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City of Harding

Population

	Number	Percent %
1970	119	
1980	93	
1990	76	
2000	105	
2002	107	
Percent % of Change 1990-2000	29	38.16%
Percent % of Change 1970-2000	-14	-11.76%
65 and Over of 2000 Population	26	24.76%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	105	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	105	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	3	3.16%
7th to 8th grade	15	15.79%
9th grade	0	0.00%
10th grade	3	3.16%
11th grade	4	4.21%
12th grade, no diploma	2	2.11%
High school graduate (include equivalency)	36	37.89%
Some college, less than 1 year	5	5.26%
Some college, 1 or more years, no degree	19	20.00%
Associate degree	3	3.16%
Bachelor's degree	3	3.16%
Master's degree	0	0.00%
Professional school degree	2	2.11%
Doctorate degree	0	0.00%
Total	95	100.00%

Housing

	Number	Percent %
Number of Households	40	
Persons per Household	2.63	
Number of Housing Units	43	
Vacant Units Non Seasonal	0	0.00%
Vacant Units Seasonal	3	6.98%
Owner Occupied Units	33	76.74%
Renter Occupied Units	7	16.28%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	3	5.88%
Built 1990 to 1994	5	9.80%
Built 1980 to 1989	8	15.69%
Built 1970 to 1979	10	19.61%
Built 1960 to 1969	6	11.76%
Built 1950 to 1959	8	15.69%
Built 1940 to 1949	0	0.00%
Built 1939 and Earlier	11	21.57%
Total	51	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	22	47.83%
Electricity	5	10.87%
Fuel Oil, kerosene, etc.	17	36.96%
Coal or coke	0	0.00%
Wood	2	4.35%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	46	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	5,459,600
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Economic Development

	Number
Average Income	44,444
Median Income	3,500
Per Capita Income	18,060
Total Poulation	105
Total Income	2,113,000

Poverty

	Number
Income below poverty level	13
Income at or above poverty level	35

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	3	5.88%
Agriculture, forestry, fishing and hunting	3	5.88%
Mining	0	0.00%
Construction	8	15.69%
Manufacturing	9	17.65%
Wholesale trade	0	0.00%
Retail trade	3	5.88%
Transportation and warehousing, and utilities	6	11.76%
Transportation and warehousing	6	11.76%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	3	5.88%
Finance and insurance	3	5.88%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	1	1.96%
Professional ,scientific, and technical services	1	1.96%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	9	17.65%
Educational services	1	1.96%
Health care and social assistance	5	9.80%
Arts, entertainment, recreation, accommodation and food services	5	9.80%
Arts, entertainment, and recreation	2	3.92%
Accommodation and food services	3	5.88%
Other services	3	5.88%
Pubic Administration	1	1.96%
Total	51	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	48	94.12%
Drive alone	44	86.27%
Carpooled	4	7.84%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	3	5.88%
Other means	0	0.00%
Worked at home	0	0.00%
Total	51	100.00%

Mean Travel Time to Work	38.7
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City of Hillman

Population

	Number	Percent %
1970	49	
1980	51	
1990	45	
2000	29	
2002	21	
Percent % of Change 1990-2000	-16	-35.56%
Percent % of Change 1970-2000	-20	-40.82%
65 and Over of 2000 Population	0	0.00%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	29	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	29	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	3	20.00%
9th grade	0	0.00%
10th grade	0	0.00%
11th grade	0	0.00%
12th grade, no diploma	2	13.33%
High school graduate (include equivalency)	3	20.00%
Some college, less than 1 year	4	26.67%
Some college, 1 or more years, no degree	3	20.00%
Associate degree	0	0.00%
Bachelor's degree	0	0.00%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	15	100.00%

Housing

	Number	Percent %
Number of Households	14	
Persons per Household	2.07	
Number of Housing Units	20	
Vacant Units Non Seasonal	4	20.00%
Vacant Units Seasonal	2	10.00%
Owner Occupied Units	14	70.00%
Renter Occupied Units	0	0.00%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	3	9.68%
Built 1995 to 1998	0	0.00%
Built 1990 to 1994	0	0.00%
Built 1980 to 1989	0	0.00%
Built 1970 to 1979	3	9.68%
Built 1960 to 1969	0	0.00%
Built 1950 to 1959	5	16.13%
Built 1940 to 1949	0	0.00%
Built 1939 and Earlier	20	64.52%
Total	31	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	3	21.43%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	8	57.14%
Coal or coke	0	0.00%
Wood	3	21.43%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	14	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	1,432,500
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Economic Development

	Number
Average Income	23,338
Median Income	26,250
Per Capita Income	11,126
Total Population	29
Total Income	300,400

Poverty

	Number
Income below poverty level	2
Income at or above poverty level	11

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	0	0.00%
Agriculture, forestry, fishing and hunting	0	0.00%
Mining	0	0.00%
Construction	2	18.18%
Manufacturing	3	27.27%
Wholesale trade	3	27.27%
Retail trade	0	0.00%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	3	27.27%
Professional ,scientific, and technical services	0	0.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	27.27%
Educational, health and social services	0	0.00%
Educational services	0	0.00%
Health care and social assistance	0	0.00%
Arts, entertainment, recreation, accommodation and food services	0	0.00%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	0	0.00%
Other services	0	0.00%
Pubic Administration	0	0.00%
Total	11	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	8	100.00%
Drive alone	6	75.00%
Carpooled	2	25.00%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	0	0.00%
Total	8	100.00%

Mean Travel Time to Work	50.6
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City of Lastrup

Population

	Number	Percent %
1970	161	
1980	150	
1990	112	
2000	99	
2002	93	
Percent % of Change 1990-2000	-13	-11.61%
Percent % of Change 1970-2000	-62	-38.51%
65 and Over of 2000 Population	14	14.14%
85 and Over of 2000 Population	4	4.04%

Population By Race

	Number	Percent %
White	98	98.99%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	1.01%
Total	99	100.00%
Hispanic or Latino	1	1.01%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	2	2.70%
5th to 6th grade	0	0.00%
7th to 8th grade	8	10.81%
9th grade	0	0.00%
10th grade	2	2.70%
11th grade	2	2.70%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	44	59.46%
Some college, less than 1 year	6	8.11%
Some college, 1 or more years, no degree	3	4.05%
Associate degree	5	6.76%
Bachelor's degree	2	2.70%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	74	100.00%

Housing

	Number	Percent %
Number of Households	48	
Persons per Household	2.06	
Number of Housing Units	49	
Vacant Units Non Seasonal	0	0.00%
Vacant Units Seasonal	1	2.04%
Owner Occupied Units	42	85.71%
Renter Occupied Units	6	12.24%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	2	3.92%
Built 1990 to 1994	0	0.00%
Built 1980 to 1989	9	17.65%
Built 1970 to 1979	7	13.73%
Built 1960 to 1969	5	9.80%
Built 1950 to 1959	6	11.76%
Built 1940 to 1949	6	11.76%
Built 1939 and Earlier	16	31.37%
Total	51	100.00%

Heating Method

	Number	Percent %
Utility Gas	30	58.82%
Bottled, tank, or LP gas	0	0.00%
Electricity	2	3.92%
Fuel Oil, kerosene, etc.	17	33.33%
Coal or coke	0	0.00%
Wood	2	3.92%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	51	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	4,150,300
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Economic Development

	Number
Average Income	34,426
Median Income	30,000
Per Capita Income	14,622
Total Population	99
Total Income	1,740,000

Poverty

	Number
Income below poverty level	15
Income at or above poverty level	35

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	3	4.41%
Agriculture, forestry, fishing and hunting	3	4.41%
Mining	0	0.00%
Construction	4	5.88%
Manufacturing	25	36.76%
Wholesale trade	5	7.35%
Retail trade	11	16.18%
Transportation and warehousing, and utilities	4	5.88%
Transportation and warehousing	4	5.88%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	1	1.47%
Finance and insurance	1	1.47%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	2	2.94%
Professional ,scientific, and technical services	2	2.94%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	4	5.88%
Educational services	0	0.00%
Health care and social assistance	4	5.88%
Arts, entertainment, recreation, accommodation and food services	4	5.88%
Arts, entertainment, and recreation	4	5.88%
Accommodation and food services	0	0.00%
Other services	0	0.00%
Pubic Administration	5	7.35%
Total	68	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	64	94.12%
Drive alone	46	67.65%
Carpooled	18	26.47%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	4	5.88%
Other means	0	0.00%
Worked at home	0	0.00%
Total	68	100.00%

Mean Travel Time to Work	25.6
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City of Little Falls

Population

	Number	Percent %
1970	7,467	
1980	7,250	
1990	7,232	
2000	7,719	
2002	7,955	
Percent % of Change 1990-2000	487	6.73%
Percent % of Change 1970-2000	252	3.37%
65 and Over of 2000 Population	1,751	22.68%
85 and Over of 2000 Population	342	4.43%

Population By Race

	Number	Percent %
White	7,504	97.21%
Black or African American	38	0.49%
American Indian or Alaska Native	40	0.52%
Asian	40	0.52%
Native Hawaiian and Other Pacific Islanders	5	0.06%
Other Single Race	18	0.23%
Two or More Races	74	0.96%
Total	7,719	100.00%
Hispanic or Latino	52	0.67%

Education Attainment

	Number	Percent %
No Schooling completed	75	1.44%
Nursery to 4th grade	0	0.00%
5th to 6th grade	62	1.19%
7th to 8th grade	519	9.97%
9th grade	97	1.86%
10th grade	196	3.77%
11th grade	130	2.50%
12th grade, no diploma	85	1.63%
High school graduate (include equivalency)	1563	30.03%
Some college, less than 1 year	469	9.01%
Some college, 1 or more years, no degree	692	13.30%
Associate degree	440	8.46%
Bachelor's degree	582	11.18%
Master's degree	222	4.27%
Professional school degree	72	1.38%
Doctorate degree	0	0.00%
Total	5204	100.00%

Housing

	Number	Percent %
Number of Households	3,197	
Persons per Household	2.29	
Number of Housing Units	3,358	
Vacant Units Non Seasonal	147	4.38%
Vacant Units Seasonal	14	0.42%
Owner Occupied Units	2,066	61.52%
Renter Occupied Units	1131	33.68%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	30	0.89%
Built 1995 to 1998	195	5.78%
Built 1990 to 1994	239	7.08%
Built 1980 to 1989	450	13.33%
Built 1970 to 1979	437	12.95%
Built 1960 to 1969	289	8.56%
Built 1950 to 1959	420	12.44%
Built 1940 to 1949	235	6.96%
Built 1939 and Earlier	1080	32.00%
Total	3375	100.00%

Heating Method

	Number	Percent %
Utility Gas	2,376	73.90%
Bottled, tank, or LP gas	120	3.73%
Electricity	419	13.03%
Fuel Oil, kerosene, etc.	237	7.37%
Coal or coke	0	0.00%
Wood	28	0.87%
Solar energy	5	0.16%
Other fuel	24	0.75%
No fuel used	6	0.19%
Total	3215	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	35	8.47%
Nursing Homes	85	20.58%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	293	70.94%
Total	413	100.00%

Market Values

Estimated Market Value	342,810,800
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Economic Development

	Number
Average Income	37,292
Median Income	30,547
Per Capita Income	15,924
Total Population	7,719
Total Income	123,540,600

Poverty

	Number
Income below poverty level	507
Income at or above poverty level	2701

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	61	1.85%
Agriculture, forestry, fishing and hunting	61	1.85%
Mining	0	0.00%
Construction	179	5.44%
Manufacturing	624	18.96%
Wholesale trade	71	2.16%
Retail trade	477	14.49%
Transportation and warehousing, and utilities	86	2.61%
Transportation and warehousing	69	2.10%
Utilities	17	0.52%
Information	15	0.46%
Finance, insurance, real estate and rental and leasing	75	2.28%
Finance and insurance	43	1.31%
Real estate and rental and leasing	32	0.97%
Professional , scientific, management, administrative, and waste management services	225	6.84%
Professional ,scientific, and technical services	145	4.41%
Management of companies and enterprises	5	0.15%
Administrative and support and waste management services	75	2.28%
Educational, health and social services	826	25.10%
Educational services	382	11.61%
Health care and social assistance	444	13.49%
Arts, entertainment, recreation, accommodation and food services	287	8.72%
Arts, entertainment, and recreation	105	3.19%
Accommodation and food services	182	5.53%
Other services	193	5.86%
Pubic Administration	172	5.23%
Total	3291	100.00%

Top 3 Employers

	Number of Employees
Larson Boats	935
Unity Family Health Care	650
IWCO	475
Total	2060

Transportation

	Number	Percent %
Car, Truck or van	2866	89.73%
Drive alone	2460	77.02%
Carpooled	406	12.71%
Public Transportation	6	0.19%
Bus or trolley bus	6	0.19%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	26	0.81%
Walked	186	5.82%
Other means	18	0.56%
Worked at home	92	2.88%
Total	3194	100.00%

Mean Travel Time to Work	18
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City of Motley

Population

	Number	Percent %
1970	351	
1980	442	
1990	441	
2000	583	
2002	633	
Percent % of Change 1990-2000	142	32.20%
Percent % of Change 1970-2000	232	66.10%
65 and Over of 2000 Population	11	1.89%
85 and Over of 2000 Population	15	2.57%

Population By Race

	Number	Percent %
White	571	97.94%
Black or African American	1	0.17%
American Indian or Alaska Native	1	0.17%
Asian	2	0.34%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	1	0.17%
Two or More Races	7	1.20%
Total	583	100.00%
Hispanic or Latino	11	1.89%

Education Attainment

	Number	Percent %
No Schooling completed	4	1.02%
Nursery to 4th grade	3	0.77%
5th to 6th grade	0	0.00%
7th to 8th grade	27	6.91%
9th grade	14	3.58%
10th grade	23	5.88%
11th grade	21	5.37%
12th grade, no diploma	11	2.81%
High school graduate (include equivalency)	125	31.97%
Some college, less than 1 year	37	9.46%
Some college, 1 or more years, no degree	52	13.30%
Associate degree	35	8.95%
Bachelor's degree	31	7.93%
Master's degree	0	0.00%
Professional school degree	5	1.28%
Doctorate degree	3	0.77%
Total	391	100.00%

Housing

	Number	Percent %
Number of Households	257	
Persons per Household	2.25	
Number of Housing Units	268	
Vacant Units Non Seasonal	8	2.99%
Vacant Units Seasonal	3	1.12%
Owner Occupied Units	158	58.96%
Renter Occupied Units	99	36.94%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	11	3.86%
Built 1995 to 1998	8	2.81%
Built 1990 to 1994	45	15.79%
Built 1980 to 1989	60	21.05%
Built 1970 to 1979	47	16.49%
Built 1960 to 1969	25	8.77%
Built 1950 to 1959	22	7.72%
Built 1940 to 1949	12	4.21%
Built 1939 and Earlier	55	19.30%
Total	285	100.00%

Heating Method

	Number	Percent %
Utility Gas	190	69.09%
Bottled, tank, or LP gas	8	2.91%
Electricity	32	11.64%
Fuel Oil, kerosene, etc.	35	12.73%
Coal or coke	0	0.00%
Wood	7	2.55%
Solar energy	0	0.00%
Other fuel	3	1.09%
No fuel used	0	0.00%
Total	275	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	0	0.00%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	4	100.00%
Total	4	100.00%

Market Values

Estimated Market Value	26,506,200
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Economic Development

	Number
Average Income	26,994
Median Income	23,438
Per Capita Income	12,220
Total Population	583
Total Income	7,551,800

Poverty

	Number
Income below poverty level	51
Income at or above poverty level	223

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	4	1.52%
Agriculture, forestry, fishing and hunting	4	1.52%
Mining	0	0.00%
Construction	17	6.44%
Manufacturing	74	28.03%
Wholesale trade	6	2.27%
Retail trade	20	7.58%
Transportation and warehousing, and utilities	13	4.92%
Transportation and warehousing	11	4.17%
Utilities	2	0.76%
Information	2	0.76%
Finance, insurance, real estate and rental and leasing	6	2.27%
Finance and insurance	6	2.27%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	5	1.89%
Professional ,scientific, and technical services	1	0.38%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	4	1.52%
Educational, health and social services	45	17.05%
Educational services	18	6.82%
Health care and social assistance	27	10.23%
Arts, entertainment, recreation, accommodation and food services	50	18.94%
Arts, entertainment, and recreation	7	2.65%
Accommodation and food services	43	16.29%
Other services	18	6.82%
Pubic Administration	4	1.52%
Total	264	100.00%

Top 3 Employers

	Number of Employees
ConAgra/Louis Kemp Foods	340
Morey's Seafood International	100
Total	440

Transportation

	Number	Percent %
Car, Truck or van	233	91.73%
Drive alone	192	75.59%
Carpooled	41	16.14%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	2	0.79%
Bicycle	0	0.00%
Walked	11	4.33%
Other means	4	1.57%
Worked at home	4	1.57%
Total	254	100.00%

Mean Travel Time to Work	23.9
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City of Pierz

Population

	Number	Percent %
1970	893	
1980	1,018	
1990	1,014	
2000	1,277	
2002	1,310	
Percent % of Change 1990-2000	263	25.94%
Percent % of Change 1970-2000	384	43.00%
65 and Over of 2000 Population	388	30.38%
85 and Over of 2000 Population	89	6.97%

Population By Race

	Number	Percent %
White	1,260	98.67%
Black or African American	0	0.00%
American Indian or Alaska Native	5	0.39%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	12	0.94%
Total	1,277	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.23%
Nursery to 4th grade	0	0.00%
5th to 6th grade	8	0.94%
7th to 8th grade	204	23.89%
9th grade	20	2.34%
10th grade	14	1.64%
11th grade	18	2.11%
12th grade, no diploma	21	2.46%
High school graduate (include equivalency)	324	37.94%
Some college, less than 1 year	55	6.44%
Some college, 1 or more years, no degree	98	11.48%
Associate degree	44	5.15%
Bachelor's degree	27	3.16%
Master's degree	14	1.64%
Professional school degree	3	0.35%
Doctorate degree	2	0.23%
Total	854	100.00%

Housing

	Number	Percent %
Number of Households	512	
Persons per Household	2.29	
Number of Housing Units	522	
Vacant Units Non Seasonal	10	1.92%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	361	69.16%
Renter Occupied Units	151	28.93%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	7	1.35%
Built 1995 to 1998	26	5.02%
Built 1990 to 1994	41	7.92%
Built 1980 to 1989	51	9.85%
Built 1970 to 1979	117	22.59%
Built 1960 to 1969	54	10.42%
Built 1950 to 1959	42	8.11%
Built 1940 to 1949	45	8.69%
Built 1939 and Earlier	135	26.06%
Total	518	100.00%

Heating Method

	Number	Percent %
Utility Gas	429	84.28%
Bottled, tank, or LP gas	8	1.57%
Electricity	46	9.04%
Fuel Oil, kerosene, etc.	19	3.73%
Coal or coke	0	0.00%
Wood	0	0.00%
Solar energy	0	0.00%
Other fuel	2	0.39%
No fuel used	5	0.98%
Total	509	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	84	81.55%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	19	18.45%
Total	103	100.00%

Market Values

Estimated Market Value	53,616,800
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Economic Development

	Number
Average Income	35,619
Median Income	27,292
Per Capita Income	14,638
Total Population	1,277
Total Income	18,590,000

Poverty

	Number
Income below poverty level	82
Income at or above poverty level	421

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	16	3.05%
Agriculture, forestry, fishing and hunting	16	3.05%
Mining	0	0.00%
Construction	39	7.44%
Manufacturing	63	12.02%
Wholesale trade	17	3.24%
Retail trade	92	17.56%
Transportation and warehousing, and utilities	31	5.92%
Transportation and warehousing	24	4.58%
Utilities	7	1.34%
Information	8	1.53%
Finance, insurance, real estate and rental and leasing	16	3.05%
Finance and insurance	11	2.10%
Real estate and rental and leasing	5	0.95%
Professional , scientific, management, administrative, and waste management services	38	7.25%
Professional ,scientific, and technical services	16	3.05%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	22	4.20%
Educational, health and social services	119	22.71%
Educational services	36	6.87%
Health care and social assistance	83	15.84%
Arts, entertainment, recreation, accommodation and food services	36	6.87%
Arts, entertainment, and recreation	11	2.10%
Accommodation and food services	25	4.77%
Other services	22	4.20%
Pubic Administration	27	5.15%
Total	524	100.00%

Top 3 Employers

	Number of Employees
Horizon Health	180
Pierz School District	150
Pierz Villa	125
Total	455

Transportation

	Number	Percent %
Car, Truck or van	434	84.11%
Drive alone	359	69.57%
Carpooled	75	14.53%
Public Transportation	5	0.97%
Bus or trolley bus	5	0.97%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	49	9.50%
Other means	0	0.00%
Worked at home	28	5.43%
Total	516	100.00%

Mean Travel Time to Work	22.1
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City of Randall

Population

	Number	Percent %
1970	536	
1980	527	
1990	571	
2000	535	
2002	550	
Percent % of Change 1990-2000	-36	-6.30%
Percent % of Change 1970-2000	-1	-0.19%
65 and Over of 2000 Population	97	18.13%
85 and Over of 2000 Population	6	1.12%

Population By Race

	Number	Percent %
White	517	96.64%
Black or African American	0	0.00%
American Indian or Alaska Native	6	1.12%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	1	0.19%
Other Single Race	1	0.19%
Two or More Races	10	1.87%
Total	535	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	4	2.30%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	26	14.94%
9th grade	14	8.05%
10th grade	9	5.17%
11th grade	9	5.17%
12th grade, no diploma	6	3.45%
High school graduate (include equivalency)	152	87.36%
Some college, less than 1 year	22	12.64%
Some college, 1 or more years, no degree	45	25.86%
Associate degree	19	10.92%
Bachelor's degree	18	10.34%
Master's degree	8	4.60%
Professional school degree	2	1.15%
Doctorate degree	0	0.00%
Total	174	100.00%

Housing

	Number	Percent %
Number of Households	217	
Persons per Household	2.47	
Number of Housing Units	229	
Vacant Units Non Seasonal	12	5.24%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	179	78.17%
Renter Occupied Units	38	16.59%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	8	3.59%
Built 1990 to 1994	7	3.14%
Built 1980 to 1989	20	8.97%
Built 1970 to 1979	49	21.97%
Built 1960 to 1969	26	11.66%
Built 1950 to 1959	42	18.83%
Built 1940 to 1949	24	10.76%
Built 1939 and Earlier	47	21.08%
Total	223	100.00%

Heating Method

	Number	Percent %
Utility Gas	154	72.30%
Bottled, tank, or LP gas	16	7.51%
Electricity	15	7.04%
Fuel Oil, kerosene, etc.	28	13.15%
Coal or coke	0	0.00%
Wood	0	0.00%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	213	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	24,248,400
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Economic Development

	Number
Average Income	37,828
Median Income	35,000
Per Capita Income	15,792
Total Population	535
Total Income	8,243,600

Poverty

	Number
Income below poverty level	34
Income at or above poverty level	180

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	2	0.86%
Agriculture, forestry, fishing and hunting	2	0.86%
Mining	0	0.00%
Construction	8	3.45%
Manufacturing	57	24.57%
Wholesale trade	0	0.00%
Retail trade	30	12.93%
Transportation and warehousing, and utilities	19	8.19%
Transportation and warehousing	19	8.19%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	9	3.88%
Finance and insurance	7	3.02%
Real estate and rental and leasing	2	0.86%
Professional , scientific, management, administrative, and waste management services	13	5.60%
Professional ,scientific, and technical services	5	2.16%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	8	3.45%
Educational, health and social services	49	21.12%
Educational services	16	6.90%
Health care and social assistance	33	14.22%
Arts, entertainment, recreation, accommodation and food services	14	6.03%
Arts, entertainment, and recreation	4	1.72%
Accommodation and food services	10	4.31%
Other services	15	6.47%
Public Administration	16	6.90%
Total	232	100.00%

Top 3 Employers

	Number of Employees
Artistic Marble	10
Bernel's Shoe Store	10
Gosch's Meat Market	10
	30

Transportation

	Number	Percent %
Car, Truck or van	216	94.74%
Drive alone	162	71.05%
Carpooled	54	23.68%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	5	2.19%
Other means	0	0.00%
Worked at home	7	3.07%
Total	228	100.00%

Mean Travel Time to Work	27.8
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City of Royalton

Population

	Number	Percent %
1970	534	
1980	660	
1990	802	
2000	816	
2002	850	
Percent % of Change 1990-2000	14	1.75%
Percent % of Change 1970-2000	282	52.81%
65 and Over of 2000 Population	107	13.11%
85 and Over of 2000 Population	16	1.96%

Population By Race

	Number	Percent %
White	806	98.77%
Black or African American	0	0.00%
American Indian or Alaska Native	2	0.25%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	4	0.49%
Other Single Race	0	0.00%
Two or More Races	4	0.49%
Total	816	100.00%
Hispanic or Latino	7	0.86%

Education Attainment

	Number	Percent %
No Schooling completed	3	0.59%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	58	11.33%
9th grade	7	1.37%
10th grade	23	4.49%
11th grade	9	1.76%
12th grade, no diploma	3	0.59%
High school graduate (include equivalency)	185	36.13%
Some college, less than 1 year	52	10.16%
Some college, 1 or more years, no degree	52	10.16%
Associate degree	51	9.96%
Bachelor's degree	43	8.40%
Master's degree	2	0.39%
Professional school degree	2	0.39%
Doctorate degree	2	0.39%
Total	512	100.00%

Housing

	Number	Percent %
Number of Households	322	
Persons per Household	2.53	
Number of Housing Units	328	
Vacant Units Non Seasonal	6	1.83%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	234	71.34%
Renter Occupied Units	88	26.83%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	9	2.74%
Built 1995 to 1998	14	4.26%
Built 1990 to 1994	21	6.38%
Built 1980 to 1989	39	11.85%
Built 1970 to 1979	73	22.19%
Built 1960 to 1969	20	6.08%
Built 1950 to 1959	17	5.17%
Built 1940 to 1949	5	1.52%
Built 1939 and Earlier	131	39.82%
Total	329	100.00%

Heating Method

	Number	Percent %
Utility Gas	158	48.77%
Bottled, tank, or LP gas	23	7.10%
Electricity	68	20.99%
Fuel Oil, kerosene, etc.	53	16.36%
Coal or coke	0	0.00%
Wood	15	4.63%
Solar energy	0	0.00%
Other fuel	3	0.93%
No fuel used	4	1.23%
Total	324	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	47,971,200
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Economic Development

	Number
Average Income	39,407
Median Income	33,173
Per Capita Income	15,926
Total Population	816
Total Income	13,266,000

Poverty

	Number
Income below poverty level	36
Income at or above poverty level	285

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	11	2.48%
Agriculture, forestry, fishing and hunting	11	2.48%
Mining	0	0.00%
Construction	30	6.77%
Manufacturing	102	23.02%
Wholesale trade	16	3.61%
Retail trade	51	11.51%
Transportation and warehousing, and utilities	24	5.42%
Transportation and warehousing	19	4.29%
Utilities	5	1.13%
Information	8	1.81%
Finance, insurance, real estate and rental and leasing	3	0.68%
Finance and insurance	1	0.23%
Real estate and rental and leasing	2	0.45%
Professional , scientific, management, administrative, and waste management services	30	6.77%
Professional ,scientific, and technical services	13	2.93%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	17	3.84%
Educational, health and social services	101	22.80%
Educational services	37	8.35%
Health care and social assistance	64	14.45%
Arts, entertainment, recreation, accommodation and food services	37	8.35%
Arts, entertainment, and recreation	4	0.90%
Accommodation and food services	33	7.45%
Other services	20	4.51%
Pubic Administration	10	2.26%
Total	443	100.00%

Top 3 Employers

	Number of Employees
Royalton Public Schools	102
Newmans' Manufacturing Inc	30
EZ Stop Store	19
	151

Transportation

	Number	Percent %
Car, Truck or van	387	88.76%
Drive alone	338	77.52%
Carpooled	49	11.24%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	20	4.59%
Other means	6	1.38%
Worked at home	23	5.28%
Total	436	100.00%

Mean Travel Time to Work	21.6
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City of Sobieski

Population

	Number	Percent %
1970	189	
1980	219	
1990	199	
2000	196	
2002	191	
Percent % of Change 1990-2000	-3	-1.51%
Percent % of Change 1970-2000	7	3.70%
65 and Over of 2000 Population	43	21.94%
85 and Over of 2000 Population	2	1.02%

Population By Race

	Number	Percent %
White	195	99.49%
Black or African American	0	0.00%
American Indian or Alaska Native	1	0.51%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	196	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	35	23.33%
9th grade	6	4.00%
10th grade	5	3.33%
11th grade	6	4.00%
12th grade, no diploma	2	1.33%
High school graduate (include equivalency)	57	38.00%
Some college, less than 1 year	8	5.33%
Some college, 1 or more years, no degree	17	11.33%
Associate degree	10	6.67%
Bachelor's degree	4	2.67%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	150	100.00%

Housing

	Number	Percent %
Number of Households	87	
Persons per Household	2.25	
Number of Housing Units	88	
Vacant Units Non Seasonal	1	1.14%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	75	85.23%
Renter Occupied Units	12	13.64%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	2	2.15%
Built 1990 to 1994	3	3.23%
Built 1980 to 1989	10	10.75%
Built 1970 to 1979	23	24.73%
Built 1960 to 1969	11	11.83%
Built 1950 to 1959	9	9.68%
Built 1940 to 1949	2	2.15%
Built 1939 and Earlier	33	35.48%
Total	93	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	41	44.09%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	39	41.94%
Coal or coke	0	0.00%
Wood	13	13.98%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	93	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	10,261,300
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Economic Development

	Number
Average Income	32,168
Median Income	30,625
Per Capita Income	14,344
Total Population	196
Total Income	3,041,000

Poverty

	Number
Income below poverty level	24
Income at or above poverty level	69

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	11	10.28%
Agriculture, forestry, fishing and hunting	11	10.28%
Mining	0	0.00%
Construction	12	11.21%
Manufacturing	26	24.30%
Wholesale trade	3	2.80%
Retail trade	14	13.08%
Transportation and warehousing, and utilities	3	2.80%
Transportation and warehousing	3	2.80%
Utilities	0	0.00%
Information	2	1.87%
Finance, insurance, real estate and rental and leasing	1	0.93%
Finance and insurance	3	2.80%
Real estate and rental and leasing	1	0.93%
Professional , scientific, management, administrative, and waste management services	4	3.74%
Professional ,scientific, and technical services	2	1.87%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	1.87%
Educational, health and social services	9	8.41%
Educational services	4	3.74%
Health care and social assistance	5	4.67%
Arts, entertainment, recreation, accommodation and food services	14	13.08%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	14	13.08%
Other services	0	0.00%
Pubic Administration	8	7.48%
Total	107	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	90	84.11%
Drive alone	84	78.50%
Carpooled	6	5.61%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	4	3.74%
Other means	0	0.00%
Worked at home	13	12.15%
Total	107	100.00%

Mean Travel Time to Work	29.5
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City of Swanville

Population

	Number	Percent %
1970	300	
1980	295	
1990	324	
2000	351	
2002	356	
Percent % of Change 1990-2000	27	8.33%
Percent % of Change 1970-2000	51	17.00%
65 and Over of 2000 Population	67	19.09%
85 and Over of 2000 Population	11	3.13%

Population By Race

	Number	Percent %
White	349	99.43%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	1	0.28%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.28%
Total	351	100.00%
Hispanic or Latino	7	1.99%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	7	3.33%
7th to 8th grade	22	10.48%
9th grade	2	0.95%
10th grade	12	5.71%
11th grade	6	2.86%
12th grade, no diploma	10	4.76%
High school graduate (include equivalency)	80	38.10%
Some college, less than 1 year	19	9.05%
Some college, 1 or more years, no degree	26	12.38%
Associate degree	12	5.71%
Bachelor's degree	12	5.71%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	2	0.95%
Total	210	100.00%

Housing

	Number	Percent %
Number of Households	142	
Persons per Household	2.47	
Number of Housing Units	148	
Vacant Units Non Seasonal	5	3.38%
Vacant Units Seasonal	1	0.68%
Owner Occupied Units	109	73.65%
Renter Occupied Units	33	22.30%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	0	0.00%
Built 1990 to 1994	11	7.01%
Built 1980 to 1989	25	15.92%
Built 1970 to 1979	16	10.19%
Built 1960 to 1969	12	7.64%
Built 1950 to 1959	16	10.19%
Built 1940 to 1949	4	2.55%
Built 1939 and Earlier	73	46.50%
Total	157	100.00%

Heating Method

	Number	Percent %
Utility Gas	3	2.16%
Bottled, tank, or LP gas	37	26.62%
Electricity	8	5.76%
Fuel Oil, kerosene, etc.	85	61.15%
Coal or coke	0	0.00%
Wood	6	4.32%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	139	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	12,700,200
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Economic Development

	Number
Average Income	35,628
Median Income	31,250
Per Capita Income	15,007
Total Population	351
Total Income	4,817,100

Poverty

	Number
Income below poverty level	20
Income at or above poverty level	116

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	2	1.29%
Agriculture, forestry, fishing and hunting	2	1.29%
Mining	0	0.00%
Construction	15	9.68%
Manufacturing	18	11.61%
Wholesale trade	4	2.58%
Retail trade	21	13.55%
Transportation and warehousing, and utilities	9	5.81%
Transportation and warehousing	9	5.81%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	8	5.16%
Finance and insurance	8	5.16%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	9	5.81%
Professional ,scientific, and technical services	6	3.87%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	1.94%
Educational, health and social services	33	21.29%
Educational services	8	5.16%
Health care and social assistance	25	16.13%
Arts, entertainment, recreation, accommodation and food services	9	5.81%
Arts, entertainment, and recreation	1	0.65%
Accommodation and food services	8	5.16%
Other services	25	16.13%
Pubic Administration	2	1.29%
Total	155	100.00%

Top 3 Employers

	Number of Employees
Jennie-O Turkey Store	60
	60

Transportation

	Number	Percent %
Car, Truck or van	119	76.77%
Drive alone	92	59.35%
Carpooled	27	17.42%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	28	18.06%
Other means	0	0.00%
Worked at home	8	5.16%
Total	155	100.00%

Mean Travel Time to Work	24
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City of Upsala

Population

	Number	Percent %
1970	312	
1980	400	
1990	371	
2000	424	
2002	425	
Percent % of Change 1990-2000	53	14.29%
Percent % of Change 1970-2000	112	35.90%
65 and Over of 2000 Population	91	21.46%
85 and Over of 2000 Population	10	2.36%

Population By Race

	Number	Percent %
White	420	99.06%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	2	0.47%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.47%
Total	424	100.00%
Hispanic or Latino	2	0.47%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	0.72%
7th to 8th grade	31	11.19%
9th grade	7	2.53%
10th grade	10	3.61%
11th grade	4	1.44%
12th grade, no diploma	2	0.72%
High school graduate (include equivalency)	110	39.71%
Some college, less than 1 year	16	5.78%
Some college, 1 or more years, no degree	39	14.08%
Associate degree	9	3.25%
Bachelor's degree	24	8.66%
Master's degree	18	6.50%
Professional school degree	4	1.44%
Doctorate degree	0	0.00%
Total	277	100.00%

Housing

	Number	Percent %
Number of Households	188	
Persons per Household	2.26	
Number of Housing Units	196	
Vacant Units Non Seasonal	4	2.04%
Vacant Units Seasonal	4	2.04%
Owner Occupied Units	133	67.86%
Renter Occupied Units	55	28.06%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	0	0.00%
Built 1995 to 1998	2	0.95%
Built 1990 to 1994	12	5.69%
Built 1980 to 1989	26	12.32%
Built 1970 to 1979	34	16.11%
Built 1960 to 1969	15	7.11%
Built 1950 to 1959	18	8.53%
Built 1940 to 1949	17	8.06%
Built 1939 and Earlier	87	41.23%
Total	211	100.00%

Heating Method

	Number	Percent %
Utility Gas	4	2.07%
Bottled, tank, or LP gas	43	22.28%
Electricity	24	12.44%
Fuel Oil, kerosene, etc.	113	58.55%
Coal or coke	0	0.00%
Wood	9	4.66%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	193	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	18,840,300
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Economic Development

	Number
Average Income	38,257
Median Income	30,000
Per Capita Income	16,382
Total Population	424
Total Income	7,208,000

Poverty

	Number
Income below poverty level	26
Income at or above poverty level	166

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	9	4.48%
Agriculture, forestry, fishing and hunting	9	4.48%
Mining	0	0.00%
Construction	18	8.96%
Manufacturing	18	8.96%
Wholesale trade	3	1.49%
Retail trade	26	12.94%
Transportation and warehousing, and utilities	16	7.96%
Transportation and warehousing	16	7.96%
Utilities	0	0.00%
Information	13	6.47%
Finance, insurance, real estate and rental and leasing	2	1.00%
Finance and insurance	2	1.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	5	2.49%
Professional ,scientific, and technical services	2	1.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	1.49%
Educational, health and social services	49	24.38%
Educational services	38	18.91%
Health care and social assistance	11	5.47%
Arts, entertainment, recreation, accommodation and food services	20	9.95%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	20	9.95%
Other services	21	10.45%
Public Administration	1	0.50%
Total	201	100.00%

Top 3 Employers

	Number of Employees
Upsala School district	80
Lange Oil Inc and C-Store	20
Sytex Communications	19
	119

Transportation

	Number	Percent %
Car, Truck or van	165	83.76%
Drive alone	142	72.08%
Carpooled	23	11.68%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	26	13.20%
Other means	0	0.00%
Worked at home	6	3.05%
Total	197	100.00%

Mean Travel Time to Work	22.4
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Township of Agram

Population

	Number	Percent %
1970	256	
1980	381	
1990	444	
2000	634	
2002	543	
Percent % of Change 1990-2000	190	42.79%
Percent % of Change 1970-2000	378	147.66%
65 and Over of 2000 Population	50	7.89%
85 and Over of 2000 Population	6	0.95%

Population By Race

	Number	Percent %
White	531	99.44%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	2	0.37%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.19%
Total	534	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	11	3.47%
9th grade	4	1.26%
10th grade	7	2.21%
11th grade	9	2.84%
12th grade, no diploma	4	1.26%
High school graduate (include equivalency)	137	43.22%
Some college, less than 1 year	32	10.09%
Some college, 1 or more years, no degree	50	15.77%
Associate degree	19	5.99%
Bachelor's degree	35	11.04%
Master's degree	5	1.58%
Professional school degree	4	1.26%
Doctorate Degree	0	0.00%
Total	317	100.00%

Housing

	Number	Percent %
Number of Households	171	
Persons per Household	3.12	
Number of Housing Units	199	
Vacant Units Non Seasonal	0	0.00%
Vacant Units Seasonal	28	14.07%
Owner Occupied Units	151	75.88%
Renter Occupied Units	20	10.05%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	18	8.91%
Built 1995 to 1998	18	8.91%
Built 1990 to 1994	21	10.40%
Built 1980 to 1989	30	14.85%
Built 1970 to 1979	51	25.25%
Built 1960 to 1969	18	8.91%
Built 1950 to 1959	12	5.94%
Built 1940 to 1949	6	2.97%
Built 1939 and Earlier	28	13.86%
Total	202	100.00%

Heating Method

	Number	Percent %
Utility Gas	1	0.57%
Bottled, tank, or LP gas	86	49.43%
Electricity	14	8.05%
Fuel Oil, kerosene, etc.	47	27.01%
Coal or coke	0	0.00%
Wood	26	14.94%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	174	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	42,263,500
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Economic Development

	Number
Average Income	51,377
Median Income	45,500
Per Capita Income	17,133
2000 Population	634
Total Income	9,046,400

Poverty

	Number
Income below poverty level	16
Income at or above poverty level	162

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	18	6.47%
Agriculture, forestry, fishing and hunting	18	6.47%
Mining	0	0.00%
Construction	32	11.51%
Manufacturing	34	12.23%
Wholesale trade	9	3.24%
Retail trade	40	14.39%
Transportation and warehousing, and utilities	5	1.80%
Transportation and warehousing	3	1.08%
Utilities	2	0.72%
Information	8	2.88%
Finance, insurance, real estate and rental and leasing	13	4.68%
Finance and insurance	13	4.68%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	14	5.04%
Professional ,scientific, and technical services	8	2.88%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	6	2.16%
Educational, health and social services	68	24.46%
Educational services	28	10.07%
Health care and social assistance	40	14.39%
Arts, entertainment, recreation, accommodation and food services	13	4.68%
Arts, entertainment, and recreation	2	0.72%
Accommodation and food services	11	3.96%
Other services	18	6.47%
Pubic Administration	6	2.16%
Total	278	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	235	85.77%
Drive alone	193	70.44%
Carpooled	42	15.33%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	8	2.92%
Other means	0	0.00%
Worked at home	31	11.31%
Total	274	100.00%

Mean Travel Time to Work	23.6
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Township of Belle Prairie

Population

	Number	Percent %
1970	1406	
1980	1597	
1990	1620	
2000	1647	
2002	1644	
Percent % of Change 1990-2000	27	1.67%
Percent % of Change 1970-2000	241	17.14%
65 and Over of 2000 Population	204	12.39%
85 and Over of 2000 Population	8	0.49%

Population By Race

	Number	Percent %
White	1629	98.91%
Black or African American	6	0.36%
American Indian or Alaska Native	2	0.12%
Asian	3	0.18%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	1	0.06%
Two or More Races	6	0.36%
Total	1647	100.00%
Hispanic or Latino	4	0.24%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	6	0.57%
7th to 8th grade	46	4.34%
9th grade	11	1.04%
10th grade	33	3.11%
11th grade	27	2.55%
12th grade, no diploma	21	1.98%
High school graduate (include equivalency)	350	33.02%
Some college, less than 1 year	83	7.83%
Some college, 1 or more years, no degree	141	13.30%
Associate degree	63	5.94%
Bachelor's degree	175	16.51%
Master's degree	82	7.74%
Professional school degree	21	1.98%
Doctorate degree	0	0.00%
Total	1060	100.00%

Housing

	Number	Percent %
Number of Households	590	
Persons per Household	2.79	
Number of Housing Units	603	
Vacant Units Non Seasonal	10	1.66%
Vacant Units Seasonal	3	0.50%
Owner Occupied Units	547	90.71%
Renter Occupied Units	43	7.13%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	6	1.01%
Built 1995 to 1998	36	6.07%
Built 1990 to 1994	48	8.09%
Built 1980 to 1989	120	20.24%
Built 1970 to 1979	151	25.46%
Built 1960 to 1969	94	15.85%
Built 1950 to 1959	61	10.29%
Built 1940 to 1949	19	3.20%
Built 1939 and Earlier	58	9.78%
Total	593	100.00%

Heating Method

	Number	Percent %
Utility Gas	318	54.83%
Bottled, tank, or LP gas	99	17.07%
Electricity	35	6.03%
Fuel Oil, kerosene, etc.	81	13.97%
Coal or coke	0	0.00%
Wood	47	8.10%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	580	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	102,331,800
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Economic Development

	Number
Average Income	61,030
Median Income	50,156
Per Capita Income	21,809
2000 Population	1,647
Total Income	35,287,200

Poverty

	Number
Income below poverty level	30
Income at or above poverty level	554

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	70	8.11%
Agriculture, forestry, fishing and hunting	70	8.11%
Mining	0	0.00%
Construction	47	5.45%
Manufacturing	98	11.36%
Wholesale trade	11	1.27%
Retail trade	101	11.70%
Transportation and warehousing, and utilities	41	4.75%
Transportation and warehousing	30	3.48%
Utilities	11	1.27%
Information	11	1.27%
Finance, insurance, real estate and rental and leasing	38	4.40%
Finance and insurance	32	3.71%
Real estate and rental and leasing	6	0.70%
Professional , scientific, management, administrative, and waste management services	39	4.52%
Professional ,scientific, and technical services	18	2.09%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	21	2.43%
Educational, health and social services	251	29.08%
Educational services	146	16.92%
Health care and social assistance	105	12.17%
Arts, entertainment, recreation, accommodation and food services	55	6.37%
Arts, entertainment, and recreation	2	0.23%
Accommodation and food services	53	6.14%
Other services	33	3.82%
Pubic Administration	67	7.76%
Total	863	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	798	92.04%
Drive alone	716	82.58%
Carpooled	82	9.46%
Public Transportation	1	0.12%
Bus or trolley bus	1	0.12%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	2	0.23%
Walked	15	1.73%
Other means	2	0.23%
Worked at home	49	5.65%
Total	867	100.00%

Mean Travel Time to Work	20.8
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Township of Bellevue

Population

	Number	Percent %
1970	504	
1980	793	
1990	852	
2000	1115	
2002	1137	
Percent % of Change 1990-2000	263	30.87%
Percent % of Change 1970-2000	611	121.23%
65 and Over of 2000 Population	86	7.71%
85 and Over of 2000 Population	2	0.18%

Population By Race

	Number	Percent %
White	1104	99.01%
Black or African American	0	0.00%
American Indian or Alaska Native	2	0.18%
Asian	4	0.36%
Native Hawaiian and Other Pacific Islanders	1	0.09%
Other Single Race	1	0.09%
Two or More Races	3	0.27%
Total	1115	100.00%
Hispanic or Latino	5	0.45%

Education Attainment

	Number	Percent %
No Schooling completed	3	0.46%
Nursery to 4th grade	1	0.15%
5th to 6th grade	0	0.00%
7th to 8th grade	35	5.41%
9th grade	11	1.70%
10th grade	24	3.71%
11th grade	18	2.78%
12th grade, no diploma	5	0.77%
High school graduate (include equivalency)	270	41.73%
Some college, less than 1 year	79	12.21%
Some college, 1 or more years, no degree	101	15.61%
Associate degree	42	6.49%
Bachelor's degree	43	6.65%
Master's degree	11	1.70%
Professional school degree	4	0.62%
Doctorate degree	0	0.00%
Total	647	100.00%

Housing

	Number	Percent %
Number of Households	365	
Persons per Household	3.05	
Number of Housing Units	382	
Vacant Units Non Seasonal	5	1.31%
Vacant Units Seasonal	12	3.14%
Owner Occupied Units	333	87.17%
Renter Occupied Units	32	8.38%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	11	2.89%
Built 1995 to 1998	555	146.05%
Built 1990 to 1994	50	13.16%
Built 1980 to 1989	54	14.21%
Built 1970 to 1979	85	22.37%
Built 1960 to 1969	31	8.16%
Built 1950 to 1959	11	2.89%
Built 1940 to 1949	12	3.16%
Built 1939 and Earlier	71	18.68%
Total	380	100.00%

Heating Method

	Number	Percent %
Utility Gas	51	14.13%
Bottled, tank, or LP gas	172	47.65%
Electricity	40	11.08%
Fuel Oil, kerosene, etc.	54	14.96%
Coal or coke	0	0.00%
Wood	42	11.63%
Solar energy	0	0.00%
Other fuel	2	0.55%
No fuel used	0	0.00%
Total	361	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	91,397,900
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Economic Development

	Number
Average Income	47,316
Median Income	44,886
Per Capita Income	15,384
Total Population	1,115
Total Income	17,015,000

Poverty

	Number
Income below poverty level	41
Income at or above poverty level	324

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	34	6.38%
Agriculture, forestry, fishing and hunting	34	6.38%
Mining	0	0.00%
Construction	29	5.44%
Manufacturing	131	24.58%
Wholesale trade	23	4.32%
Retail trade	73	13.70%
Transportation and warehousing, and utilities	25	4.69%
Transportation and warehousing	23	4.32%
Utilities	2	0.38%
Information	13	2.44%
Finance, insurance, real estate and rental and leasing	26	4.88%
Finance and insurance	22	4.13%
Real estate and rental and leasing	4	0.75%
Professional , scientific, management, administrative, and waste management services	19	3.56%
Professional ,scientific, and technical services	12	2.25%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	7	1.31%
Educational, health and social services	90	16.89%
Educational services	40	7.50%
Health care and social assistance	50	9.38%
Arts, entertainment, recreation, accommodation and food services	22	4.13%
Arts, entertainment, and recreation	2	0.38%
Accommodation and food services	20	3.75%
Other services	18	3.38%
Public Administration	30	5.63%
Total	533	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	486	91.18%
Drive alone	408	76.55%
Carpooled	78	14.63%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	2	0.38%
Walked	2	0.38%
Other means	7	1.31%
Worked at home	36	6.75%
Total	533	100.00%

Mean Travel Time to Work	26.1
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Township of Buckman

Population

	Number	Percent %
1970	754	
1980	763	
1990	716	
2000	717	
2002	713	
Percent % of Change 1990-2000	1	0.14%
Percent % of Change 1970-2000	-37	-4.91%
65 and Over of 2000 Population	59	8.23%
85 and Over of 2000 Population	1	0.14%

Population By Race

	Number	Percent %
White	714	417.54%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	2	1.17%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.58%
Total	171	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	44	10.58%
9th grade	15	3.61%
10th grade	12	2.88%
11th grade	4	0.96%
12th grade, no diploma	1	0.24%
High school graduate (include equivalency)	175	42.07%
Some college, less than 1 year	38	9.13%
Some college, 1 or more years, no degree	61	14.66%
Associate degree	27	6.49%
Bachelor's degree	30	7.21%
Master's degree	0	0.00%
Professional school degree	9	2.16%
Doctorate degree	0	0.00%
Total	416	100.00%

Housing

	Number	Percent %
Number of Households	220	
Persons per Household	3.26	
Number of Housing Units	227	
Vacant Units Non Seasonal	4	1.76%
Vacant Units Seasonal	3	1.32%
Owner Occupied Units	203	89.43%
Renter Occupied Units	17	7.49%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	11	4.76%
Built 1995 to 1998	25	10.82%
Built 1990 to 1994	19	8.23%
Built 1980 to 1989	31	13.42%
Built 1970 to 1979	36	15.58%
Built 1960 to 1969	15	6.49%
Built 1950 to 1959	7	3.03%
Built 1940 to 1949	10	4.33%
Built 1939 and Earlier	77	33.33%
Total	231	100.00%

Heating Method

	Number	Percent %
Utility Gas	14	6.25%
Bottled, tank, or LP gas	110	49.11%
Electricity	6	2.68%
Fuel Oil, kerosene, etc.	65	29.02%
Coal or coke	0	0.00%
Wood	29	12.95%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	224	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	60,993,600
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Economic Development

	Number
Average Income	54,208
Median Income	45,489
Per Capita Income	16,638
Total Population	717
Total Income	12,162,100

Poverty

	Number
Income below poverty level	10
Income at or above poverty level	213

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	108	27.55%
Agriculture, forestry, fishing and hunting	108	27.55%
Mining	0	0.00%
Construction	53	13.52%
Manufacturing	41	10.46%
Wholesale trade	26	6.63%
Retail trade	31	7.91%
Transportation and warehousing, and utilities	11	2.81%
Transportation and warehousing	6	1.53%
Utilities	9	2.30%
Information	1	0.26%
Finance, insurance, real estate and rental and leasing	18	4.59%
Finance and insurance	16	4.08%
Real estate and rental and leasing	2	0.51%
Professional , scientific, management, administrative, and waste management services	29	7.40%
Professional ,scientific, and technical services	12	3.06%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	17	4.34%
Educational, health and social services	43	10.97%
Educational services	15	3.83%
Health care and social assistance	28	7.14%
Arts, entertainment, recreation, accommodation and food services	8	2.04%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	8	2.04%
Other services	15	3.83%
Pubic Administration	7	1.79%
Total	392	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	294	75.58%
Drive alone	244	62.72%
Carpooled	50	12.85%
Public Transportation	1	0.26%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	8	2.06%
Other means	4	1.03%
Worked at home	83	21.34%
Total	389	100.00%

Mean Travel Time to Work	29.8
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Township of Buh

Population

	Number	Percent %
1970	570	
1980	604	
1990	582	
2000	572	
2002	572	
Percent % of Change 1990-2000	-10	-1.72%
Percent % of Change 1970-2000	2	0.35%
65 and Over of 2000 Population	50	8.74%
85 and Over of 2000 Population	2	0.35%

Population By Race

	Number	Percent %
White	565	98.78%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	6	1.05%
Two or More Races	1	0.17%
Total	572	100.00%
Hispanic or Latino	2	0.35%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	9	2.67%
7th to 8th grade	31	9.20%
9th grade	1	0.30%
10th grade	9	2.67%
11th grade	8	2.37%
12th grade, no diploma	10	2.97%
High school graduate (include equivalency)	169	50.15%
Some college, less than 1 year	17	5.04%
Some college, 1 or more years, no degree	49	14.54%
Associate degree	17	5.04%
Bachelor's degree	11	3.26%
Master's degree	2	0.59%
Professional school degree	4	1.19%
Doctorate degree	0	0.00%
Total	337	100.00%

Housing

	Number	Percent %
Number of Households	179	
Persons per Household	3.15	
Number of Housing Units	184	
Vacant Units Non Seasonal	4	2.17%
Vacant Units Seasonal	1	0.54%
Owner Occupied Units	166	90.22%
Renter Occupied Units	13	7.07%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	1.12%
Built 1995 to 1998	16	8.94%
Built 1990 to 1994	10	5.59%
Built 1980 to 1989	29	16.20%
Built 1970 to 1979	27	15.08%
Built 1960 to 1969	15	8.38%
Built 1950 to 1959	8	4.47%
Built 1940 to 1949	19	10.61%
Built 1939 and Earlier	53	29.61%
Total	179	100.00%

Heating Method

	Number	Percent %
Utility Gas	16	9.20%
Bottled, tank, or LP gas	58	33.33%
Electricity	12	6.90%
Fuel Oil, kerosene, etc.	60	34.48%
Coal or coke	0	0.00%
Wood	26	14.94%
Solar energy	0	0.00%
Other fuel	2	1.15%
No fuel used	0	0.00%
Total	174	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	0	0.00%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	8	100.00%
Total	8	100.00%

Market Values

Estimated Market Value	44,513,300
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Economic Development

	Number
Average Income	41,595
Median Income	33,036
Per Capita Income	13,168
Total Population	572
Total Income	7,387,000

Poverty

	Number
Income below poverty level	25
Income at or above poverty level	152

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	97	34.40%
Agriculture, forestry, fishing and hunting	97	34.40%
Mining	0	0.00%
Construction	13	4.61%
Manufacturing	25	8.87%
Wholesale trade	12	4.26%
Retail trade	39	13.83%
Transportation and warehousing, and utilities	7	2.48%
Transportation and warehousing	5	1.77%
Utilities	2	0.71%
Information	2	0.71%
Finance, insurance, real estate and rental and leasing	4	1.42%
Finance and insurance	4	1.42%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	8	2.84%
Professional ,scientific, and technical services	7	2.48%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	1	0.35%
Educational, health and social services	48	17.02%
Educational services	20	7.09%
Health care and social assistance	28	9.93%
Arts, entertainment, recreation, accommodation and food services	15	5.32%
Arts, entertainment, and recreation	1	0.35%
Accommodation and food services	14	4.96%
Other services	10	3.55%
Pubic Administration	2	0.71%
Total	282	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	195	69.40%
Drive alone	172	61.21%
Carpooled	23	8.19%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	32	11.39%
Other means	2	0.71%
Worked at home	52	18.51%
Total	281	100.00%

Mean Travel Time to Work	22.1
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Township of Culdrum

Population

	Number	Percent %
1970	540	
1980	528	
1990	487	
2000	505	
2002	500	
Percent % of Change 1990-2000	18	3.70%
Percent % of Change 1970-2000	-35	-6.48%
65 and Over of 2000 Population	73	14.46%
85 and Over of 2000 Population	9	1.78%

Population By Race

	Number	Percent %
White	503	99.60%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.40%
Total	505	100.00%
Hispanic or Latino	3	0.59%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	1	0.34%
7th to 8th grade	27	9.15%
9th grade	12	4.07%
10th grade	2	0.68%
11th grade	6	2.03%
12th grade, no diploma	7	2.37%
High school graduate (include equivalency)	116	39.32%
Some college, less than 1 year	48	16.27%
Some college, 1 or more years, no degree	37	12.54%
Associate degree	12	4.07%
Bachelor's degree	20	6.78%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	295	100.00%

Housing

	Number	Percent %
Number of Households	165	
Persons per Household	3.06	
Number of Housing Units	178	
Vacant Units Non Seasonal	7	3.93%
Vacant Units Seasonal	6	3.37%
Owner Occupied Units	144	80.90%
Renter Occupied Units	21	11.80%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	7	3.72%
Built 1995 to 1998	8	4.26%
Built 1990 to 1994	12	6.38%
Built 1980 to 1989	32	17.02%
Built 1970 to 1979	28	14.89%
Built 1960 to 1969	21	11.17%
Built 1950 to 1959	6	3.19%
Built 1940 to 1949	6	3.19%
Built 1939 and Earlier	68	36.17%
Total	188	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	1.18%
Bottled, tank, or LP gas	43	25.29%
Electricity	18	10.59%
Fuel Oil, kerosene, etc.	57	33.53%
Coal or coke	0	0.00%
Wood	48	28.24%
Solar energy	2	1.18%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	170	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	40,183,400
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Economic Development

	Number
Average Income	41,708
Median Income	34,712
Per Capita Income	14,174
Total Poulation	505
Total Income	6,860,200

Poverty

	Number
Income below poverty level	12
Income at or above poverty level	155

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	57	27.27%
Agriculture, forestry, fishing and hunting	57	27.27%
Mining	0	0.00%
Construction	14	6.70%
Manufacturing	33	15.79%
Wholesale trade	0	0.00%
Retail trade	14	6.70%
Transportation and warehousing, and utilities	6	2.87%
Transportation and warehousing	4	1.91%
Utilities	2	0.96%
Information	1	0.48%
Finance, insurance, real estate and rental and leasing	6	2.87%
Finance and insurance	6	2.87%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	12	5.74%
Professional ,scientific, and technical services	2	0.96%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	10	4.78%
Educational, health and social services	40	19.14%
Educational services	14	6.70%
Health care and social assistance	26	12.44%
Arts, entertainment, recreation, accommodation and food services	9	4.31%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	9	4.31%
Other services	11	5.26%
Pubic Administration	6	2.87%
Total	209	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	152	72.38%
Drive alone	137	65.24%
Carpooled	15	7.14%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	8	3.81%
Other means	0	0.00%
Worked at home	50	23.81%
Total	210	100.00%

Mean Travel Time to Work	26.7
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Township of Cushing

Population

	Number	Percent %
1970	297	
1980	337	
1990	502	
2000	632	
2002	658	
Percent % of Change 1990-2000	130	25.90%
Percent % of Change 1970-2000	335	112.79%
65 and Over of 2000 Population	58	9.18%
85 and Over of 2000 Population	6	0.95%

Population By Race

	Number	Percent %
White	623	98.58%
Black or African American	7	1.11%
American Indian or Alaska Native	1	0.16%
Asian	1	0.16%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	632	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.51%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	25	6.41%
9th grade	9	2.31%
10th grade	14	3.59%
11th grade	13	3.33%
12th grade, no diploma	14	3.59%
High school graduate (include equivalency)	159	40.77%
Some college, less than 1 year	32	8.21%
Some college, 1 or more years, no degree	68	17.44%
Associate degree	26	6.67%
Bachelor's degree	26	6.67%
Master's degree	2	0.51%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	390	100.00%

Housing

	Number	Percent %
Number of Households	214	
Persons per Household	2.95	
Number of Housing Units	299	
Vacant Units Non Seasonal	12	4.01%
Vacant Units Seasonal	73	24.41%
Owner Occupied Units	201	67.22%
Renter Occupied Units	13	4.35%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	5	1.69%
Built 1995 to 1998	19	6.42%
Built 1990 to 1994	25	8.45%
Built 1980 to 1989	57	19.26%
Built 1970 to 1979	58	19.59%
Built 1960 to 1969	25	8.45%
Built 1950 to 1959	22	7.43%
Built 1940 to 1949	21	7.09%
Built 1939 and Earlier	64	21.62%
Total	296	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	103	46.61%
Electricity	15	6.79%
Fuel Oil, kerosene, etc.	62	28.05%
Coal or coke	0	0.00%
Wood	41	18.55%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	221	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	67,882,500
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Economic Development

	Number
Average Income	52,221
Median Income	41,591
Per Capita Income	16,470
Total Population	632
Total Income	10,722,100

Poverty

	Number
Income below poverty level	22
Income at or above poverty level	202

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	23	7.96%
Agriculture, forestry, fishing and hunting	23	7.96%
Mining	0	0.00%
Construction	32	11.07%
Manufacturing	68	23.53%
Wholesale trade	8	2.77%
Retail trade	24	8.30%
Transportation and warehousing, and utilities	14	4.84%
Transportation and warehousing	11	3.81%
Utilities	2	0.69%
Information	3	1.04%
Finance, insurance, real estate and rental and leasing	8	2.77%
Finance and insurance	8	2.77%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	12	4.15%
Professional ,scientific, and technical services	5	1.73%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	7	2.42%
Educational, health and social services	55	19.03%
Educational services	26	9.00%
Health care and social assistance	29	10.03%
Arts, entertainment, recreation, accommodation and food services	28	9.69%
Arts, entertainment, and recreation	2	0.69%
Accommodation and food services	26	9.00%
Other services	5	1.73%
Pubic Administration	9	3.11%
Total	289	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van		#DIV/0!
Drive alone		#DIV/0!
Carpooled		#DIV/0!
Public Transportation		#DIV/0!
Bus or trolley bus		#DIV/0!
Streetcar or trolley car		#DIV/0!
Subway or elevated		#DIV/0!
Railroad		#DIV/0!
Ferry boat		#DIV/0!
Taxicab		#DIV/0!
Motorcycle		#DIV/0!
Bicycle		#DIV/0!
Walked		#DIV/0!
Other means		#DIV/0!
Worked at home		#DIV/0!
Total		#DIV/0!

Mean Travel Time to Work	37
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Township of Darling

Population

	Number	Percent %
1970	556	
1980	583	
1990	597	
2000	600	
2002	605	
Percent % of Change 1990-2000	3	0.50%
Percent % of Change 1970-2000	44	7.91%
65 and Over of 2000 Population	58	9.67%
85 and Over of 2000 Population	7	1.17%

Population By Race

	Number	Percent %
White	587	97.83%
Black or African American	5	0.83%
American Indian or Alaska Native	1	0.17%
Asian	5	0.83%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.33%
Total	600	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.52%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	15	3.88%
9th grade	2	0.52%
10th grade	4	1.03%
11th grade	5	1.29%
12th grade, no diploma	5	1.29%
High school graduate (include equivalency)	161	41.60%
Some college, less than 1 year	42	10.85%
Some college, 1 or more years, no degree	88	22.74%
Associate degree	18	4.65%
Bachelor's degree	35	9.04%
Master's degree	10	2.58%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	387	100.00%

Housing

	Number	Percent %
Number of Households	211	
Persons per Household	2.84	
Number of Housing Units	231	
Vacant Units Non Seasonal	9	3.90%
Vacant Units Seasonal	11	4.76%
Owner Occupied Units	192	83.12%
Renter Occupied Units	19	8.23%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	0.85%
Built 1995 to 1998	23	9.79%
Built 1990 to 1994	14	5.96%
Built 1980 to 1989	39	16.60%
Built 1970 to 1979	40	17.02%
Built 1960 to 1969	27	11.49%
Built 1950 to 1959	20	8.51%
Built 1940 to 1949	11	4.68%
Built 1939 and Earlier	59	25.11%
Total	235	100.00%

Heating Method

	Number	Percent %
Utility Gas	11	5.24%
Bottled, tank, or LP gas	100	47.62%
Electricity	12	5.71%
Fuel Oil, kerosene, etc.	62	29.52%
Coal or coke	0	0.00%
Wood	25	11.90%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	210	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	47,789,700
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Economic Development

	Number
Average Income	50,619
Median Income	46,875
Per Capita Income	17,415
Total Population	600
Total Income	10,744,800

Poverty

	Number
Income below poverty level	10
Income at or above poverty level	198

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	37	11.35%
Agriculture, forestry, fishing and hunting	37	11.35%
Mining	0	0.00%
Construction	26	7.98%
Manufacturing	72	22.09%
Wholesale trade	8	2.45%
Retail trade	26	7.98%
Transportation and warehousing, and utilities	19	5.83%
Transportation and warehousing	17	5.21%
Utilities	2	0.61%
Information	8	2.45%
Finance, insurance, real estate and rental and leasing	9	2.76%
Finance and insurance	9	2.76%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	28	8.59%
Professional ,scientific, and technical services	14	4.29%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	14	4.29%
Educational, health and social services	53	16.26%
Educational services	22	6.75%
Health care and social assistance	31	9.51%
Arts, entertainment, recreation, accommodation and food services	8	2.45%
Arts, entertainment, and recreation	2	0.61%
Accommodation and food services	7	2.15%
Other services	8	2.45%
Pubic Administration	23	7.06%
Total	326	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	277	87.11%
Drive alone	236	74.21%
Carpooled	41	12.89%
Public Transportation	4	1.26%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	4	1.26%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	2	0.63%
Other means	0	0.00%
Worked at home	35	11.01%
Total	318	100.00%

Mean Travel Time to Work	21.8
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Township of Elmdale

Population

	Number	Percent %
1970	794	
1980	872	
1990	847	
2000	904	
2002	925	
Percent % of Change 1990-2000	57	6.73%
Percent % of Change 1970-2000	110	13.85%
65 and Over of 2000 Population	99	10.95%
85 and Over of 2000 Population	6	0.66%

Population By Race

	Number	Percent %
White	895	99.00%
Black or African American	2	0.22%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	4	0.44%
Two or More Races	3	0.33%
Total	904	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	0.38%
7th to 8th grade	38	7.21%
9th grade	18	3.42%
10th grade	15	2.85%
11th grade	4	0.76%
12th grade, no diploma	12	2.28%
High school graduate (include equivalency)	269	51.04%
Some college, less than 1 year	30	5.69%
Some college, 1 or more years, no degree	46	8.73%
Associate degree	23	4.36%
Bachelor's degree	56	10.63%
Master's degree	3	0.57%
Professional school degree	5	0.95%
Doctorate degree	6	1.14%
Total	527	100.00%

Housing

	Number	Percent %
Number of Households	291	
Persons per Household	3.11	
Number of Housing Units	368	
Vacant Units Non Seasonal	19	5.16%
Vacant Units Seasonal	58	15.76%
Owner Occupied Units	269	73.10%
Renter Occupied Units	22	5.98%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	16	4.51%
Built 1995 to 1998	23	6.48%
Built 1990 to 1994	25	7.04%
Built 1980 to 1989	40	11.27%
Built 1970 to 1979	40	11.27%
Built 1960 to 1969	45	12.68%
Built 1950 to 1959	36	10.14%
Built 1940 to 1949	12	3.38%
Built 1939 and Earlier	118	33.24%
Total	355	100.00%

Heating Method

	Number	Percent %
Utility Gas	3	1.03%
Bottled, tank, or LP gas	105	35.96%
Electricity	24	8.22%
Fuel Oil, kerosene, etc.	96	32.88%
Coal or coke	0	0.00%
Wood	62	21.23%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	2	0.68%
Total	292	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	74,675,600
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Economic Development

	Number
Average Income	58,361
Median Income	41,696
Per Capita Income	19,406
Total Population	904
Total Income	17,057,900

Poverty

	Number
Income below poverty level	27
Income at or above poverty level	260

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	78	18.57%
Agriculture, forestry, fishing and hunting	76	18.10%
Mining	2	0.48%
Construction	30	7.14%
Manufacturing	86	20.48%
Wholesale trade	19	4.52%
Retail trade	41	9.76%
Transportation and warehousing, and utilities	23	5.48%
Transportation and warehousing	20	4.76%
Utilities	3	0.71%
Information	2	0.48%
Finance, insurance, real estate and rental and leasing	17	4.05%
Finance and insurance	17	4.05%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	26	6.19%
Professional ,scientific, and technical services	20	4.76%
Management of companies and enterprises	4	0.95%
Administrative and support and waste management services	2	0.48%
Educational, health and social services	60	14.29%
Educational services	31	7.38%
Health care and social assistance	29	6.90%
Arts, entertainment, recreation, accommodation and food services	24	5.71%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	24	5.71%
Other services	6	1.43%
Pubic Administration	8	1.90%
Total	420	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	346	82.78%
Drive alone	295	70.57%
Carpooled	51	12.20%
Public Transportation	1	0.24%
Bus or trolley bus	1	0.24%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	18	4.31%
Other means	0	0.00%
Worked at home	53	12.68%
Total	418	100.00%

Mean Travel Time to Work	30.2
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Township of Granite

Population

	Number	Percent %
1970	529	
1980	524	
1990	520	
2000	480	
2002	477	
Percent % of Change 1990-2000	-40	-7.69%
Percent % of Change 1970-2000	-49	-9.26%
65 and Over of 2000 Population	16	3.33%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	479	99.79%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.21%
Total	480	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	5	1.92%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	19	7.28%
9th grade	2	0.77%
10th grade	17	6.51%
11th grade	6	2.30%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	140	53.64%
Some college, less than 1 year	27	10.34%
Some college, 1 or more years, no degree	24	9.20%
Associate degree	6	2.30%
Bachelor's degree	15	5.75%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	261	100.00%

Housing

	Number	Percent %
Number of Households	142	
Persons per Household	3.38	
Number of Housing Units	144	
Vacant Units Non Seasonal	1	0.69%
Vacant Units Seasonal	1	0.69%
Owner Occupied Units	135	93.75%
Renter Occupied Units	7	4.86%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	1.37%
Built 1995 to 1998	26	17.81%
Built 1990 to 1994	8	5.48%
Built 1980 to 1989	16	10.96%
Built 1970 to 1979	28	19.18%
Built 1960 to 1969	6	4.11%
Built 1950 to 1959	11	7.53%
Built 1940 to 1949	18	12.33%
Built 1939 and Earlier	31	21.23%
Total	146	100.00%

Heating Method

	Number	Percent %
Utility Gas	10	7.09%
Bottled, tank, or LP gas	49	34.75%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	58	41.13%
Coal or coke	0	0.00%
Wood	24	17.02%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	141	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	38,315,900
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Economic Development

	Number
Average Income	47,747
Median Income	47,813
Per Capita Income	14,311
Total Population	480
Total Income	6,640,200

Poverty

	Number
Income below poverty level	17
Income at or above poverty level	123

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	52	21.40%
Agriculture, forestry, fishing and hunting	52	21.40%
Mining	0	0.00%
Construction	24	9.88%
Manufacturing	25	10.29%
Wholesale trade	11	4.53%
Retail trade	11	4.53%
Transportation and warehousing, and utilities	7	2.88%
Transportation and warehousing	7	2.88%
Utilities	0	0.00%
Information	2	0.82%
Finance, insurance, real estate and rental and leasing	8	3.29%
Finance and insurance	7	2.88%
Real estate and rental and leasing	1	0.41%
Professional , scientific, management, administrative, and waste management services	22	9.05%
Professional ,scientific, and technical services	18	7.41%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	4	1.65%
Educational, health and social services	40	16.46%
Educational services	23	9.47%
Health care and social assistance	17	7.00%
Arts, entertainment, recreation, accommodation and food services	27	11.11%
Arts, entertainment, and recreation	18	7.41%
Accommodation and food services	9	3.70%
Other services	9	3.70%
Pubic Administration	5	2.06%
Total	243	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	197	81.74%
Drive alone	161	66.80%
Carpooled	36	14.94%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	6	2.49%
Other means	0	0.00%
Worked at home	38	15.77%
Total	241	100.00%

Mean Travel Time to Work	26.7
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Township of Green Prairie

Population

	Number	Percent %
1970	599	
1980	650	
1990	672	
2000	665	
2002	667	
Percent % of Change 1990-2000	-7	-1.04%
Percent % of Change 1970-2000	66	11.02%
65 and Over of 2000 Population	49	7.37%
85 and Over of 2000 Population	4	0.60%

Population By Race

	Number	Percent %
White	661	99.40%
Black or African American	0	0.00%
American Indian or Alaska Native	4	0.60%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	665	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed		#DIV/0!
Nursery to 4th grade		#DIV/0!
5th to 6th grade		#DIV/0!
7th to 8th grade		#DIV/0!
9th grade		#DIV/0!
10th grade		#DIV/0!
11th grade		#DIV/0!
12th grade, no diploma		#DIV/0!
High school graduate (include equivalency)		#DIV/0!
Some college, less than 1 year		#DIV/0!
Some college, 1 or more years, no degree		#DIV/0!
Associate degree		#DIV/0!
Bachelor's degree		#DIV/0!
Master's degree		#DIV/0!
Professional school degree		#DIV/0!
Doctorate degree		#DIV/0!
Total		#DIV/0!

Housing

	Number	Percent %
Number of Households	244	
Persons per Household	2.73	
Number of Housing Units	262	
Vacant Units Non Seasonal	6	2.29%
Vacant Units Seasonal	12	4.58%
Owner Occupied Units	235	89.69%
Renter Occupied Units	9	3.44%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	4	1.53%
Built 1995 to 1998	24	9.20%
Built 1990 to 1994	18	6.90%
Built 1980 to 1989	39	14.94%
Built 1970 to 1979	59	22.61%
Built 1960 to 1969	31	11.88%
Built 1950 to 1959	26	9.96%
Built 1940 to 1949	7	2.68%
Built 1939 and Earlier	53	20.31%
Total	261	100.00%

Heating Method

	Number	Percent %
Utility Gas	33	13.87%
Bottled, tank, or LP gas	85	35.71%
Electricity	20	8.40%
Fuel Oil, kerosene, etc.	72	30.25%
Coal or coke	0	0.00%
Wood	28	11.76%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	238	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	47,241,000
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Economic Development

	Number
Average Income	45,124
Median Income	39,444
Per Capita Income	17,013
Total Population	665
Total Income	10,752,300

Poverty

	Number
Income below poverty level	21
Income at or above poverty level	219

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	14	4.17%
Agriculture, forestry, fishing and hunting	14	4.17%
Mining	0	0.00%
Construction	24	7.14%
Manufacturing	93	27.68%
Wholesale trade	7	2.08%
Retail trade	33	9.82%
Transportation and warehousing, and utilities	8	2.38%
Transportation and warehousing	8	2.38%
Utilities	0	0.00%
Information	2	0.60%
Finance, insurance, real estate and rental and leasing	10	2.98%
Finance and insurance	10	2.98%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	11	3.27%
Professional ,scientific, and technical services	4	1.19%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	7	2.08%
Educational, health and social services	63	18.75%
Educational services	24	7.14%
Health care and social assistance	39	11.61%
Arts, entertainment, recreation, accommodation and food services	29	8.63%
Arts, entertainment, and recreation	5	1.49%
Accommodation and food services	24	7.14%
Other services	14	4.17%
Pubic Administration	28	8.33%
Total	336	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van		#DIV/0!
Drive alone		#DIV/0!
Carpooled		#DIV/0!
Public Transportation		#DIV/0!
Bus or trolley bus		#DIV/0!
Streetcar or trolley car		#DIV/0!
Subway or elevated		#DIV/0!
Railroad		#DIV/0!
Ferry boat		#DIV/0!
Taxicab		#DIV/0!
Motorcycle		#DIV/0!
Bicycle		#DIV/0!
Walked		#DIV/0!
Other means		#DIV/0!
Worked at home		#DIV/0!
Total		#DIV/0!

Mean Travel Time to Work	18.4
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Township of Hillman

Population

	Number	Percent %
1970	147	
1980	171	
1990	167	
2000	164	
2002	169	
Percent % of Change 1990-2000	-3	-1.80%
Percent % of Change 1970-2000	17	11.56%
65 and Over of 2000 Population	15	9.15%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	163	99.39%
Black or African American	0	0.00%
American Indian or Alaska Native	1	0.61%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	164	100.00%
Hispanic or Latino	6	3.66%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	3	3.19%
9th grade	4	4.26%
10th grade	0	0.00%
11th grade	6	6.38%
12th grade, no diploma	3	3.19%
High school graduate (include equivalency)	36	38.30%
Some college, less than 1 year	11	11.70%
Some college, 1 or more years, no degree	18	19.15%
Associate degree	7	7.45%
Bachelor's degree	5	5.32%
Master's degree	0	0.00%
Professional school degree	1	1.06%
Doctorate degree	0	0.00%
Total	94	100.00%

Housing

	Number	Percent %
Number of Households	52	
Persons per Household	3.15	
Number of Housing Units	56	
Vacant Units Non Seasonal	1	1.79%
Vacant Units Seasonal	3	5.36%
Owner Occupied Units	49	87.50%
Renter Occupied Units	3	5.36%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	3.51%
Built 1995 to 1998	5	8.77%
Built 1990 to 1994	8	14.04%
Built 1980 to 1989	9	15.79%
Built 1970 to 1979	9	15.79%
Built 1960 to 1969	5	8.77%
Built 1950 to 1959	3	5.26%
Built 1940 to 1949	3	5.26%
Built 1939 and Earlier	13	22.81%
Total	57	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	19	35.19%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	9	16.67%
Coal or coke	0	0.00%
Wood	26	48.15%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	54	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	19,848,500
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Economic Development

	Number
Average Income	45,968
Median Income	45,938
Per Capita Income	13,345
Total Population	164
Total Income	2,375,400

Poverty

	Number
Income below poverty level	5
Income at or above poverty level	48

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	14	16.87%
Agriculture, forestry, fishing and hunting	12	14.46%
Mining	2	2.41%
Construction	12	14.46%
Manufacturing	12	14.46%
Wholesale trade	0	0.00%
Retail trade	12	14.46%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	2	2.41%
Finance, insurance, real estate and rental and leasing	2	2.41%
Finance and insurance	0	0.00%
Real estate and rental and leasing	2	2.41%
Professional , scientific, management, administrative, and waste management services	4	4.82%
Professional ,scientific, and technical services	2	2.41%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	2.41%
Educational, health and social services	22	26.51%
Educational services	10	12.05%
Health care and social assistance	12	14.46%
Arts, entertainment, recreation, accommodation and food services	0	0.00%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	0	0.00%
Other services	3	3.61%
Pubic Administration	0	0.00%
Total	83	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	72	#DIV/0!
Drive alone	61	#DIV/0!
Carpooled	11	#DIV/0!
Public Transportation	0	#DIV/0!
Bus or trolley bus	0	#DIV/0!
Streetcar or trolley car	0	#DIV/0!
Subway or elevated	0	#DIV/0!
Railroad	0	#DIV/0!
Ferry boat	0	#DIV/0!
Taxicab	0	#DIV/0!
Motorcycle	0	#DIV/0!
Bicycle	0	#DIV/0!
Walked	2	#DIV/0!
Other means	0	#DIV/0!
Worked at home	9	#DIV/0!
Total		#DIV/0!

Mean Travel Time to Work	37.6
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Township of Lakin

Population

	Number	Percent %
1970	383	
1980	408	
1990	334	
2000	409	
2002	429	
Percent % of Change 1990-2000	75	22.46%
Percent % of Change 1970-2000	26	6.79%
65 and Over of 2000 Population	34	8.31%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	403	98.53%
Black or African American	0	0.00%
American Indian or Alaska Native	5	1.22%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	1	0.24%
Two or More Races	0	0.00%
Total	409	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.83%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	23	9.58%
9th grade	9	3.75%
10th grade	9	3.75%
11th grade	17	7.08%
12th grade, no diploma	4	1.67%
High school graduate (include equivalency)	103	42.92%
Some college, less than 1 year	22	9.17%
Some college, 1 or more years, no degree	21	8.75%
Associate degree	21	8.75%
Bachelor's degree	4	1.67%
Master's degree	0	0.00%
Professional school degree	5	2.08%
Doctorate degree	0	0.00%
Total	240	100.00%

Housing

	Number	Percent %
Number of Households	138	
Persons per Household	2.96	
Number of Housing Units	158	
Vacant Units Non Seasonal	3	1.90%
Vacant Units Seasonal	17	10.76%
Owner Occupied Units	130	82.28%
Renter Occupied Units	8	5.06%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	7	4.73%
Built 1995 to 1998	9	6.08%
Built 1990 to 1994	9	6.08%
Built 1980 to 1989	18	12.16%
Built 1970 to 1979	26	17.57%
Built 1960 to 1969	16	10.81%
Built 1950 to 1959	7	4.73%
Built 1940 to 1949	23	15.54%
Built 1939 and Earlier	33	22.30%
Total	148	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	80	61.07%
Electricity	3	2.29%
Fuel Oil, kerosene, etc.	22	16.79%
Coal or coke	0	0.00%
Wood	26	19.85%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	131	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	37,484,100
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Economic Development

	Number
Average Income	43,212
Median Income	38,500
Per Capita Income	14,415
Total Population	409
Total Income	5,636,400

Poverty

	Number
Income below poverty level	20
Income at or above poverty level	112

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	41	21.69%
Agriculture, forestry, fishing and hunting	41	21.69%
Mining	0	0.00%
Construction	24	12.70%
Manufacturing	41	21.69%
Wholesale trade	5	2.65%
Retail trade	26	13.76%
Transportation and warehousing, and utilities	2	1.06%
Transportation and warehousing	2	1.06%
Utilities	0	0.00%
Information	4	2.12%
Finance, insurance, real estate and rental and leasing	3	1.59%
Finance and insurance	3	1.59%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	8	4.23%
Professional ,scientific, and technical services	5	2.65%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	1.59%
Educational, health and social services	24	12.70%
Educational services	9	4.76%
Health care and social assistance	15	7.94%
Arts, entertainment, recreation, accommodation and food services	2	1.06%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	2	1.06%
Other services	2	1.06%
Pubic Administration	3	1.59%
Total	189	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	135	71.43%
Drive alone	102	53.97%
Carpooled	33	17.46%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	22	11.64%
Other means	0	0.00%
Worked at home	32	16.93%
Total	189	100.00%

Mean Travel Time to Work	32.5
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Township of Leigh

Population

	Number	Percent %
1970	177	
1980	192	
1990	174	
2000	192	
2002	192	
Percent % of Change 1990-2000	18	10.34%
Percent % of Change 1970-2000	15	8.47%
65 and Over of 2000 Population	13	6.77%
85 and Over of 2000 Population	3	1.56%

Population By Race

	Number	Percent %
White	180	93.75%
Black or African American	0	0.00%
American Indian or Alaska Native	10	5.21%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	1.04%
Total	192	100.00%
Hispanic or Latino	1	0.52%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	3	3.00%
7th to 8th grade	16	16.00%
9th grade	3	3.00%
10th grade	0	0.00%
11th grade	13	13.00%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	49	49.00%
Some college, less than 1 year	12	12.00%
Some college, 1 or more years, no degree	4	4.00%
Associate degree	0	0.00%
Bachelor's degree	0	0.00%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	100	100.00%

Housing

	Number	Percent %
Number of Households	70	
Persons per Household	2.74	
Number of Housing Units	91	
Vacant Units Non Seasonal	3	3.30%
Vacant Units Seasonal	18	19.78%
Owner Occupied Units	64	70.33%
Renter Occupied Units	6	6.59%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	3	3.26%
Built 1995 to 1998	18	19.57%
Built 1990 to 1994	2	2.17%
Built 1980 to 1989	16	17.39%
Built 1970 to 1979	22	23.91%
Built 1960 to 1969	7	7.61%
Built 1950 to 1959	7	7.61%
Built 1940 to 1949	5	5.43%
Built 1939 and Earlier	12	13.04%
Total	92	100.00%

Heating Method

	Number	Percent %
Utility Gas	9	14.75%
Bottled, tank, or LP gas	32	52.46%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	5	8.20%
Coal or coke	0	0.00%
Wood	15	24.59%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	61	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	22,587,500
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Economic Development

	Number
Average Income	33,711
Median Income	26,563
Per Capita Income	12,572
Total Population	192
Total Income	2,087,000

Poverty

	Number
Income below poverty level	16
Income at or above poverty level	45

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	9	9.89%
Agriculture, forestry, fishing and hunting	9	9.89%
Mining	0	0.00%
Construction	12	13.19%
Manufacturing	16	17.58%
Wholesale trade	0	0.00%
Retail trade	11	12.09%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	4	4.40%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	5	5.49%
Professional ,scientific, and technical services	0	0.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	5	5.49%
Educational, health and social services	13	14.29%
Educational services	9	9.89%
Health care and social assistance	4	4.40%
Arts, entertainment, recreation, accommodation and food services	18	19.78%
Arts, entertainment, and recreation	8	8.79%
Accommodation and food services	10	10.99%
Other services	2	2.20%
Pubic Administration	0	0.00%
Total	91	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	74	85.06%
Drive alone	47	54.02%
Carpooled	27	31.03%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	3	3.45%
Worked at home	10	11.49%
Total	87	100.00%

Mean Travel Time to Work	43.8
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Township of Little Falls

Population

	Number	Percent %
1970	882	
1980	1,137	
1990	1,532	
2000	1,624	
2002	1,642	
Percent % of Change 1990-2000	92	6.01%
Percent % of Change 1970-2000	742	84.13%
65 and Over of 2000 Population	129	7.94%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	1,604	98.77%
Black or African American	2	0.12%
American Indian or Alaska Native	3	0.18%
Asian	2	0.12%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	3	0.18%
Two or More Races	10	0.62%
Total	1,624	100.00%
Hispanic or Latino	9	0.55%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	0.19%
7th to 8th grade	31	2.99%
9th grade	17	1.64%
10th grade	31	2.99%
11th grade	12	1.16%
12th grade, no diploma	10	0.96%
High school graduate (include equivalency)	360	34.72%
Some college, less than 1 year	53	5.11%
Some college, 1 or more years, no degree	157	15.14%
Associate degree	85	8.20%
Bachelor's degree	176	16.97%
Master's degree	63	6.08%
Professional school degree	38	3.66%
Doctorate degree	2	0.19%
Total	1037	100.00%

Housing

	Number	Percent %
Number of Households	533	
Persons per Household	3.02	
Number of Housing Units	546	
Vacant Units Non Seasonal	9	1.65%
Vacant Units Seasonal	4	0.73%
Owner Occupied Units	504	92.31%
Renter Occupied Units	29	5.31%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	19	3.48%
Built 1995 to 1998	76	13.92%
Built 1990 to 1994	53	9.71%
Built 1980 to 1989	95	17.40%
Built 1970 to 1979	136	24.91%
Built 1960 to 1969	51	9.34%
Built 1950 to 1959	30	5.49%
Built 1940 to 1949	20	3.66%
Built 1939 and Earlier	66	12.09%
Total	546	100.00%

Heating Method

	Number	Percent %
Utility Gas	133	24.95%
Bottled, tank, or LP gas	208	39.02%
Electricity	48	9.01%
Fuel Oil, kerosene, etc.	98	18.39%
Coal or coke	0	0.00%
Wood	44	8.26%
Solar energy	0	0.00%
Other fuel	2	0.38%
No fuel used	0	0.00%
Total	533	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	0	0.00%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	17	100.00%
Total	17	100.00%

Market Values

Estimated Market Value	119,284,800
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Economic Development

	Number
Average Income	65,105
Median Income	56,196
Per Capita Income	22,083
Total Population	1,624
Total Income	36,172,700

Poverty

	Number
Income below poverty level	20
Income at or above poverty level	526

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	21	2.39%
Agriculture, forestry, fishing and hunting	19	2.16%
Mining	2	0.23%
Construction	81	9.20%
Manufacturing	114	12.95%
Wholesale trade	25	2.84%
Retail trade	113	12.84%
Transportation and warehousing, and utilities	25	2.84%
Transportation and warehousing	22	2.50%
Utilities	3	0.34%
Information	11	1.25%
Finance, insurance, real estate and rental and leasing	48	5.45%
Finance and insurance	41	4.66%
Real estate and rental and leasing	7	0.80%
Professional , scientific, management, administrative, and waste management services	39	4.43%
Professional ,scientific, and technical services	28	3.18%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	11	1.25%
Educational, health and social services	245	27.84%
Educational services	106	12.05%
Health care and social assistance	139	15.80%
Arts, entertainment, recreation, accommodation and food services	39	4.43%
Arts, entertainment, and recreation	13	1.48%
Accommodation and food services	26	2.95%
Other services	52	5.91%
Pubic Administration	67	7.61%
Total	880	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	811	92.79%
Drive alone	722	82.61%
Carpooled	89	10.18%
Public Transportation	5	0.57%
Bus or trolley bus	5	0.57%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	20	2.29%
Other means	4	0.46%
Worked at home	34	3.89%
Total	874	100.00%

Mean Travel Time to Work	20.9
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Township of Morrill

Population

	Number	Percent %
1970	532	
1980	575	
1990	608	
2000	650	
2002	675	
Percent % of Change 1990-2000	42	6.91%
Percent % of Change 1970-2000	118	22.18%
65 and Over of 2000 Population	47	7.23%
85 and Over of 2000 Population	3	0.46%

Population By Race

	Number	Percent %
White	646	99.38%
Black or African American	1	0.15%
American Indian or Alaska Native	1	0.15%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.31%
Total	650	100.00%
Hispanic or Latino	6	0.92%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.52%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	0.52%
7th to 8th grade	38	9.82%
9th grade	21	5.43%
10th grade	31	8.01%
11th grade	15	3.88%
12th grade, no diploma	8	2.07%
High school graduate (include equivalency)	177	45.74%
Some college, less than 1 year	34	8.79%
Some college, 1 or more years, no degree	26	6.72%
Associate degree	19	4.91%
Bachelor's degree	10	2.58%
Master's degree	2	0.52%
Professional school degree	0	0.00%
Doctorate degree	2	0.52%
Total	387	100.00%

Housing

	Number	Percent %
Number of Households	215	
Persons per Household	3.02	
Number of Housing Units	223	
Vacant Units Non Seasonal	3	1.35%
Vacant Units Seasonal	5	2.24%
Owner Occupied Units	202	90.58%
Renter Occupied Units	13	5.83%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	17	7.36%
Built 1995 to 1998	30	12.99%
Built 1990 to 1994	24	10.39%
Built 1980 to 1989	31	13.42%
Built 1970 to 1979	41	17.75%
Built 1960 to 1969	11	4.76%
Built 1950 to 1959	15	6.49%
Built 1940 to 1949	18	7.79%
Built 1939 and Earlier	44	19.05%
Total	231	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	0.89%
Bottled, tank, or LP gas	140	62.22%
Electricity	6	2.67%
Fuel Oil, kerosene, etc.	38	16.89%
Coal or coke	0	0.00%
Wood	37	16.44%
Solar energy	0	0.00%
Other fuel	2	0.89%
No fuel used	0	0.00%
Total	225	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	42,119,100
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Economic Development

	Number
Average Income	52,879
Median Income	42,813
Per Capita Income	17,604
Total Population	650
Total Income	11,794,700

Poverty

	Number
Income below poverty level	12
Income at or above poverty level	209

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	40	10.67%
Agriculture, forestry, fishing and hunting	40	10.67%
Mining	0	0.00%
Construction	71	18.93%
Manufacturing	81	21.60%
Wholesale trade	2	0.53%
Retail trade	23	6.13%
Transportation and warehousing, and utilities	20	5.33%
Transportation and warehousing	16	4.27%
Utilities	4	1.07%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	10	2.67%
Finance and insurance	8	2.13%
Real estate and rental and leasing	2	0.53%
Professional , scientific, management, administrative, and waste management services	24	6.40%
Professional ,scientific, and technical services	7	1.87%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	17	4.53%
Educational, health and social services	62	16.53%
Educational services	22	5.87%
Health care and social assistance	40	10.67%
Arts, entertainment, recreation, accommodation and food services	18	4.80%
Arts, entertainment, and recreation	10	2.67%
Accommodation and food services	8	2.13%
Other services	17	4.53%
Public Administration	6	1.60%
Total	375	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	292	78.92%
Drive alone	188	50.81%
Carpooled	104	28.11%
Public Transportation	2	0.54%
Bus or trolley bus	2	0.54%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	18	4.86%
Other means	5	1.35%
Worked at home	53	14.32%
Total	370	100.00%

Mean Travel Time to Work	52.9
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Township of Motley

Population

	Number	Percent %
1970	134	
1980	159	
1990	179	
2000	205	
2002	211	
Percent % of Change 1990-2000	26	14.53%
Percent % of Change 1970-2000	71	52.99%
65 and Over of 2000 Population	40	19.51%
85 and Over of 2000 Population	10	4.88%

Population By Race

	Number	Percent %
White	205	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	205	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	2	1.61%
9th grade	4	3.23%
10th grade	0	0.00%
11th grade	5	4.03%
12th grade, no diploma	9	7.26%
High school graduate (include equivalency)	60	48.39%
Some college, less than 1 year	7	5.65%
Some college, 1 or more years, no degree	2	1.61%
Associate degree	14	11.29%
Bachelor's degree	11	8.87%
Master's degree	5	4.03%
Professional school degree	5	4.03%
Doctorate Degree	0	0.00%
Total	124	100.00%

Housing

	Number	Percent %
Number of Households	79	
Persons per Household	2.48	
Number of Housing Units	98	
Vacant Units Non Seasonal	3	3.06%
Vacant Units Seasonal	16	16.33%
Owner Occupied Units	72	73.47%
Renter Occupied Units	7	7.14%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	89	988.89%
Built 1995 to 1998	2	22.22%
Built 1990 to 1994	19	211.11%
Built 1980 to 1989	0	0.00%
Built 1970 to 1979	16	177.78%
Built 1960 to 1969	24	266.67%
Built 1950 to 1959	9	100.00%
Built 1940 to 1949	7	77.78%
Built 1939 and Earlier	3	33.33%
Total	9	100.00%

Heating Method

	Number	Percent %
Utility Gas	6	9.23%
Bottled, tank, or LP gas	39	60.00%
Electricity	6	9.23%
Fuel Oil, kerosene, etc.	6	9.23%
Coal or coke	0	0.00%
Wood	8	12.31%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	65	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	0.00%
Nursing Homes	0	0.00%
Other institutions	0	0.00%
College dormitories	0	0.00%
Military quarters	0	0.00%
Other non institutional group quarters	9	100.00%
Total	9	100.00%

Market Values

Estimated Market Value	19,905,900
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Economic Development

	Number
Average Income	44,762
Median Income	39,000
Per Capita Income	15,873
2000 Population	205
Total Income	2,952,300

Poverty

	Number
Income below poverty level	7
Income at or above poverty level	57

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	3	3.85%
Agriculture, forestry, fishing and hunting	3	3.85%
Mining	0	0.00%
Construction	6	7.69%
Manufacturing	19	24.36%
Wholesale trade	3	3.85%
Retail trade	10	12.82%
Transportation and warehousing, and utilities	4	5.13%
Transportation and warehousing	4	5.13%
Utilities	0	0.00%
Information	2	2.56%
Finance, insurance, real estate and rental and leasing	3	3.85%
Finance and insurance	3	3.85%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	2	2.56%
Professional ,scientific, and technical services	3	3.85%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	12	15.38%
Educational services	6	7.69%
Health care and social assistance	6	7.69%
Arts, entertainment, recreation, accommodation and food services	11	14.10%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	11	14.10%
Other services	2	2.56%
Pubic Administration	1	1.28%
Total	78	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	74	100.00%
Drive alone	56	75.68%
Carpooled	18	24.32%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	0	0.00%
Total	74	100.00%

Mean Travel Time to Work	27.2
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Township of Mount Morris

Population

	Number	Percent %
1970	94	
1980	103	
1990	93	
2000	90	
2002	95	
Percent % of Change 1990-2000	-3	-3.23%
Percent % of Change 1970-2000	1	1.06%
65 and Over of 2000 Population	9	10.00%
85 and Over of 2000 Population	2	2.22%

Population By Race

	Number	Percent %
White	90	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	90	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	7	13.46%
9th grade	4	7.69%
10th grade	6	11.54%
11th grade	2	3.85%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	27	51.92%
Some college, less than 1 year	4	7.69%
Some college, 1 or more years, no degree	0	0.00%
Associate degree	1	1.92%
Bachelor's degree	1	1.92%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	52	100.00%

Housing

	Number	Percent %
Number of Households	32	
Persons per Household	2.81	
Number of Housing Units	43	
Vacant Units Non Seasonal	3	6.98%
Vacant Units Seasonal	8	18.60%
Owner Occupied Units	29	67.44%
Renter Occupied Units	3	6.98%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	2	4.65%
Built 1995 to 1998	0	0.00%
Built 1990 to 1994	5	11.63%
Built 1980 to 1989	11	25.58%
Built 1970 to 1979	6	13.95%
Built 1960 to 1969	0	0.00%
Built 1950 to 1959	8	18.60%
Built 1940 to 1949	0	0.00%
Built 1939 and Earlier	11	25.58%
Total	43	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	7	26.92%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	6	23.08%
Coal or coke	0	0.00%
Wood	13	50.00%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	26	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	15,705,400
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Economic Development

	Number
Average Income	24,117
Median Income	19,375
Per Capita Income	9,483
2000 Population	90
Total Income	673,300

Poverty

	Number
Income below poverty level	11
Income at or above poverty level	18

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	13	43.33%
Agriculture, forestry, fishing and hunting	13	43.33%
Mining	0	0.00%
Construction	2	6.67%
Manufacturing	9	30.00%
Wholesale trade	0	0.00%
Retail trade	0	0.00%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	0	0.00%
Professional ,scientific, and technical services	0	0.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	0	0.00%
Educational, health and social services	4	13.33%
Educational services	2	6.67%
Health care and social assistance	2	6.67%
Arts, entertainment, recreation, accommodation and food services	0	0.00%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	0	0.00%
Other services	2	6.67%
Pubic Administration	0	0.00%
Total	30	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	19	63.33%
Drive alone	19	63.33%
Carpooled	0	0.00%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	11	36.67%
Total	30	100.00%

Mean Travel Time to Work	20.3
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Township of Parker

Population

	Number	Percent %
1970	479	
1980	483	
1990	453	
2000	469	
2002	467	
Percent % of Change 1990-2000	16	3.53%
Percent % of Change 1970-2000	-10	-2.09%
65 and Over of 2000 Population	54	11.51%
85 and Over of 2000 Population	4	0.85%

Population By Race

	Number	Percent %
White	463	98.72%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	6	1.28%
Two or More Races	0	0.00%
Total	469	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed		#DIV/0!
Nursery to 4th grade		#DIV/0!
5th to 6th grade		#DIV/0!
7th to 8th grade		#DIV/0!
9th grade		#DIV/0!
10th grade		#DIV/0!
11th grade		#DIV/0!
12th grade, no diploma		#DIV/0!
High school graduate (include equivalency)		#DIV/0!
Some college, less than 1 year		#DIV/0!
Some college, 1 or more years, no degree		#DIV/0!
Associate degree		#DIV/0!
Bachelor's degree		#DIV/0!
Master's degree		#DIV/0!
Professional school degree		#DIV/0!
Doctorate degree		#DIV/0!
Total		#DIV/0!

Housing

	Number	Percent %
Number of Households	155	
Persons per Household	3.03	
Number of Housing Units	162	
Vacant Units Non Seasonal	3	1.85%
Vacant Units Seasonal	4	2.47%
Owner Occupied Units	138	85.19%
Renter Occupied Units	17	10.49%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	4	2.42%
Built 1995 to 1998	6	3.64%
Built 1990 to 1994	13	7.88%
Built 1980 to 1989	26	15.76%
Built 1970 to 1979	34	20.61%
Built 1960 to 1969	22	13.33%
Built 1950 to 1959	8	4.85%
Built 1940 to 1949	10	6.06%
Built 1939 and Earlier	42	25.45%
Total	165	100.00%

Heating Method

	Number	Percent %
Utility Gas	3	1.90%
Bottled, tank, or LP gas	50	31.65%
Electricity	0	0.00%
Fuel Oil, kerosene, etc.	51	32.28%
Coal or coke	0	0.00%
Wood	54	34.18%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	158	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	36,747,400
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Economic Development

	Number
Average Income	46,996
Median Income	38,250
Per Capita Income	14,805
Total Population	469
Total Income	7,387,500

Poverty

	Number
Income below poverty level	14
Income at or above poverty level	144

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	61	24.30%
Agriculture, forestry, fishing and hunting	61	24.30%
Mining	0	0.00%
Construction	19	7.57%
Manufacturing	60	23.90%
Wholesale trade	3	1.20%
Retail trade	3	1.20%
Transportation and warehousing, and utilities	4	1.59%
Transportation and warehousing	4	1.59%
Utilities	0	0.00%
Information	3	1.20%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	7	2.79%
Professional ,scientific, and technical services	2	0.80%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	0.80%
Educational, health and social services	46	18.33%
Educational services	21	8.37%
Health care and social assistance	25	9.96%
Arts, entertainment, recreation, accommodation and food services	18	7.17%
Arts, entertainment, and recreation	1	0.40%
Accommodation and food services	17	6.77%
Other services	8	3.19%
Pubic Administration	19	7.57%
Total	251	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	185	74.00%
Drive alone	163	65.20%
Carpooled	22	8.80%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	4	1.60%
Other means	2	0.80%
Worked at home	59	23.60%
Total	250	100.00%

Mean Travel Time to Work	29
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Township of Pierz

Population

	Number	Percent %
1970	545	
1980	612	
1990	636	
2000	513	
2002	519	
Percent % of Change 1990-2000	-123	-19.34%
Percent % of Change 1970-2000	-32	-5.87%
65 and Over of 2000 Population	46	8.97%
85 and Over of 2000 Population	4	0.78%

Population By Race

	Number	Percent %
White	513	100.00%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	513	100.00%
Hispanic or Latino	1	0.19%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.65%
Nursery to 4th grade	2	0.65%
5th to 6th grade	0	0.00%
7th to 8th grade	24	7.84%
9th grade	4	1.31%
10th grade	6	1.96%
11th grade	2	0.65%
12th grade, no diploma	2	0.65%
High school graduate (include equivalency)	160	52.29%
Some college, less than 1 year	32	10.46%
Some college, 1 or more years, no degree	33	10.78%
Associate degree	7	2.29%
Bachelor's degree	22	7.19%
Master's degree	3	0.98%
Professional school degree	6	1.96%
Doctorate degree	1	0.33%
Total	306	100.00%

Housing

	Number	Percent %
Number of Households	161	
Persons per Household	3.19	
Number of Housing Units	165	
Vacant Units Non Seasonal	4	2.42%
Vacant Units Seasonal	0	0.00%
Owner Occupied Units	151	91.52%
Renter Occupied Units	10	6.06%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	6	3.68%
Built 1995 to 1998	17	10.43%
Built 1990 to 1994	7	4.29%
Built 1980 to 1989	20	12.27%
Built 1970 to 1979	43	26.38%
Built 1960 to 1969	11	6.75%
Built 1950 to 1959	7	4.29%
Built 1940 to 1949	8	4.91%
Built 1939 and Earlier	44	26.99%
Total	163	100.00%

Heating Method

	Number	Percent %
Utility Gas	6	3.80%
Bottled, tank, or LP gas	73	46.20%
Electricity	4	2.53%
Fuel Oil, kerosene, etc.	39	24.68%
Coal or coke	0	0.00%
Wood	33	20.89%
Solar energy	0	0.00%
Other fuel	3	1.90%
No fuel used	0	0.00%
Total	158	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	40,918,300
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Economic Development

	Number
Average Income	46,875
Median Income	40,682
Per Capita Income	15,071
Total Population	513
Total Income	7,430,000

Poverty

	Number
Income below poverty level	21
Income at or above poverty level	137

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	50	19.92%
Agriculture, forestry, fishing and hunting	50	19.92%
Mining	0	0.00%
Construction	31	12.35%
Manufacturing	29	11.55%
Wholesale trade	2	0.80%
Retail trade	22	8.76%
Transportation and warehousing, and utilities	17	6.77%
Transportation and warehousing	10	3.98%
Utilities	7	2.79%
Information	2	0.80%
Finance, insurance, real estate and rental and leasing	13	5.18%
Finance and insurance	12	4.78%
Real estate and rental and leasing	1	0.40%
Professional , scientific, management, administrative, and waste management services	3	1.20%
Professional ,scientific, and technical services	1	0.40%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	0.80%
Educational, health and social services	58	23.11%
Educational services	30	11.95%
Health care and social assistance	28	11.16%
Arts, entertainment, recreation, accommodation and food services	13	5.18%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	13	5.18%
Other services	6	2.39%
Pubic Administration	5	1.99%
Total	251	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	198	78.88%
Drive alone	170	67.73%
Carpooled	28	11.16%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	4	1.59%
Other means	0	0.00%
Worked at home	49	19.52%
Total	251	100.00%

Mean Travel Time to Work	23.5
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Township of Pike Creek

Population

	Number	Percent %
1970	885	
1980	946	
1990	937	
2000	932	
2002	942	
Percent % of Change 1990-2000	-5	-0.53%
Percent % of Change 1970-2000	47	5.31%
65 and Over of 2000 Population	118	12.66%
85 and Over of 2000 Population	15	1.61%

Population By Race

	Number	Percent %
White	917	98.39%
Black or African American	1	0.11%
American Indian or Alaska Native	4	0.43%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	1	0.11%
Two or More Races	9	0.97%
Total	932	100.00%
Hispanic or Latino	3	0.32%

Education Attainment

	Number	Percent %
No Schooling completed	5	0.85%
Nursery to 4th grade	2	0.34%
5th to 6th grade	4	0.68%
7th to 8th grade	39	6.67%
9th grade	19	3.25%
10th grade	21	3.59%
11th grade	3	0.51%
12th grade, no diploma	14	2.39%
High school graduate (include equivalency)	286	48.89%
Some college, less than 1 year	47	8.03%
Some college, 1 or more years, no degree	69	11.79%
Associate degree	40	6.84%
Bachelor's degree	24	4.10%
Master's degree	8	1.37%
Professional school degree	2	0.34%
Doctorate degree	2	0.34%
Total	585	100.00%

Housing

	Number	Percent %
Number of Households	316	
Persons per Household	2.95	
Number of Housing Units	323	
Vacant Units Non Seasonal	6	1.86%
Vacant Units Seasonal	1	0.31%
Owner Occupied Units	297	91.95%
Renter Occupied Units	19	5.88%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	11	3.48%
Built 1995 to 1998	27	8.54%
Built 1990 to 1994	21	6.65%
Built 1980 to 1989	37	11.71%
Built 1970 to 1979	42	13.29%
Built 1960 to 1969	30	9.49%
Built 1950 to 1959	20	6.33%
Built 1940 to 1949	8	2.53%
Built 1939 and Earlier	120	37.97%
Total	316	100.00%

Heating Method

	Number	Percent %
Utility Gas	11	3.57%
Bottled, tank, or LP gas	110	35.71%
Electricity	6	1.95%
Fuel Oil, kerosene, etc.	138	44.81%
Coal or coke	0	0.00%
Wood	40	12.99%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	3	0.97%
Total	308	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	64,414,600
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Economic Development

	Number
Average Income	49,728
Median Income	43,882
Per Capita Income	16,883
Total Population	932
Total Income	15,228,800

Poverty

	Number
Income below poverty level	25
Income at or above poverty level	286

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	57	12.45%
Agriculture, forestry, fishing and hunting	57	12.45%
Mining	0	0.00%
Construction	23	5.02%
Manufacturing	83	18.12%
Wholesale trade	13	2.84%
Retail trade	46	10.04%
Transportation and warehousing, and utilities	21	4.59%
Transportation and warehousing	14	3.06%
Utilities	7	1.53%
Information	4	0.87%
Finance, insurance, real estate and rental and leasing	17	3.71%
Finance and insurance	11	2.40%
Real estate and rental and leasing	6	1.31%
Professional , scientific, management, administrative, and waste management services	24	5.24%
Professional ,scientific, and technical services	11	2.40%
Management of companies and enterprises	2	0.44%
Administrative and support and waste management services	11	2.40%
Educational, health and social services	85	18.56%
Educational services	31	6.77%
Health care and social assistance	53	11.57%
Arts, entertainment, recreation, accommodation and food services	21	4.59%
Arts, entertainment, and recreation	7	1.53%
Accommodation and food services	14	3.06%
Other services	32	6.99%
Public Administration	31	6.77%
Total	458	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	380	84.44%
Drive alone	354	78.67%
Carpooled	26	5.78%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	15	3.33%
Other means	2	0.44%
Worked at home	53	11.78%
Total	450	100.00%

Mean Travel Time to Work	20.6
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Township of Platte

Population

	Number	Percent %
1970	361	
1980	351	
1990	369	
2000	329	
2002	330	
Percent % of Change 1990-2000	-40	-10.84%
Percent % of Change 1970-2000	-32	-8.86%
65 and Over of 2000 Population	43	13.07%
85 and Over of 2000 Population	6	1.82%

Population By Race

	Number	Percent %
White	326	99.09%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	3	0.91%
Total	329	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	4	1.84%
7th to 8th grade	33	15.21%
9th grade	10	4.61%
10th grade	3	1.38%
11th grade	8	3.69%
12th grade, no diploma	6	2.76%
High school graduate (include equivalency)	96	44.24%
Some college, less than 1 year	23	10.60%
Some college, 1 or more years, no degree	20	9.22%
Associate degree	4	1.84%
Bachelor's degree	10	4.61%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	217	100.00%

Housing

	Number	Percent %
Number of Households	130	
Persons per Household	2.53	
Number of Housing Units	134	
Vacant Units Non Seasonal	2	1.49%
Vacant Units Seasonal	2	1.49%
Owner Occupied Units	122	91.04%
Renter Occupied Units	8	5.97%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	4	2.92%
Built 1995 to 1998	3	2.19%
Built 1990 to 1994	7	5.11%
Built 1980 to 1989	10	7.30%
Built 1970 to 1979	35	25.55%
Built 1960 to 1969	19	13.87%
Built 1950 to 1959	2	1.46%
Built 1940 to 1949	14	10.22%
Built 1939 and Earlier	43	31.39%
Total	137	100.00%

Heating Method

	Number	Percent %
Utility Gas	3	2.27%
Bottled, tank, or LP gas	39	29.55%
Electricity	3	2.27%
Fuel Oil, kerosene, etc.	35	26.52%
Coal or coke	0	0.00%
Wood	50	37.88%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	2	1.52%
Total	132	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	31,760,000
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Economic Development

	Number
Average Income	36,268
Median Income	39,167
Per Capita Income	14,556
Total Poulation	329
Total Income	4,817,900

Poverty

	Number
Income below poverty level	22
Income at or above poverty level	108

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	21	14.29%
Agriculture, forestry, fishing and hunting	21	14.29%
Mining	0	0.00%
Construction	18	12.24%
Manufacturing	19	12.93%
Wholesale trade	2	1.36%
Retail trade	16	10.88%
Transportation and warehousing, and utilities	6	4.08%
Transportation and warehousing	6	4.08%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	4	2.72%
Professional ,scientific, and technical services	3	2.04%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	1	0.68%
Educational, health and social services	39	26.53%
Educational services	6	4.08%
Health care and social assistance	33	22.45%
Arts, entertainment, recreation, accommodation and food services	10	6.80%
Arts, entertainment, and recreation	8	5.44%
Accommodation and food services	2	1.36%
Other services	4	2.72%
Pubic Administration	8	5.44%
Total	147	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	109	76.76%
Drive alone	98	69.01%
Carpooled	11	7.75%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	6	4.23%
Other means	0	0.00%
Worked at home	27	19.01%
Total	142	100.00%

Mean Travel Time to Work	24.4
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Township of Pulaski

Population

	Number	Percent %
1970	281	
1980	322	
1990	295	
2000	340	
2002	342	
Percent % of Change 1990-2000	45	15.25%
Percent % of Change 1970-2000	59	21.00%
65 and Over of 2000 Population	68	20.00%
85 and Over of 2000 Population	1	0.29%

Population By Race

	Number	Percent %
White	337	99.12%
Black or African American	0	0.00%
American Indian or Alaska Native	2	0.59%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.29%
Total	340	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	2	0.88%
5th to 6th grade	0	0.00%
7th to 8th grade	24	10.53%
9th grade	22	9.65%
10th grade	14	6.14%
11th grade	5	2.19%
12th grade, no diploma	6	2.63%
High school graduate (include equivalency)	98	42.98%
Some college, less than 1 year	17	7.46%
Some college, 1 or more years, no degree	31	13.60%
Associate degree	4	1.75%
Bachelor's degree	5	2.19%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	228	100.00%

Housing

	Number	Percent %
Number of Households	134	
Persons per Household	2.54	
Number of Housing Units	236	
Vacant Units Non Seasonal	1	0.42%
Vacant Units Seasonal	101	42.80%
Owner Occupied Units	126	53.39%
Renter Occupied Units	8	3.39%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	12	5.61%
Built 1995 to 1998	14	6.54%
Built 1990 to 1994	10	4.67%
Built 1980 to 1989	27	12.62%
Built 1970 to 1979	16	7.48%
Built 1960 to 1969	31	14.49%
Built 1950 to 1959	26	12.15%
Built 1940 to 1949	32	14.95%
Built 1939 and Earlier	46	21.50%
Total	214	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	1.55%
Bottled, tank, or LP gas	54	41.86%
Electricity	4	3.10%
Fuel Oil, kerosene, etc.	23	17.83%
Coal or coke	0	0.00%
Wood	46	35.66%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	129	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	56,785,000
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Economic Development

	Number
Average Income	39,561
Median Income	36,667
Per Capita Income	16,199
Total Population	340
Total Income	5,458,900

Poverty

	Number
Income below poverty level	29
Income at or above poverty level	109

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	39	27.66%
Agriculture, forestry, fishing and hunting	39	27.66%
Mining	0	0.00%
Construction	24	17.02%
Manufacturing	10	7.09%
Wholesale trade	5	3.55%
Retail trade	0	0.00%
Transportation and warehousing, and utilities	1	0.71%
Transportation and warehousing	1	0.71%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	6	4.26%
Finance and insurance	4	2.84%
Real estate and rental and leasing	2	1.42%
Professional , scientific, management, administrative, and waste management services	14	9.93%
Professional ,scientific, and technical services	8	5.67%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	6	4.26%
Educational, health and social services	25	17.73%
Educational services	5	3.55%
Health care and social assistance	20	14.18%
Arts, entertainment, recreation, accommodation and food services	11	7.80%
Arts, entertainment, and recreation	9	6.38%
Accommodation and food services	2	1.42%
Other services	6	4.26%
Public Administration	0	0.00%
Total	141	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	105	74.47%
Drive alone	96	68.09%
Carpooled	9	6.38%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	4	2.84%
Other means	0	0.00%
Worked at home	32	22.70%
Total	141	100.00%

Mean Travel Time to Work	42.9
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Township of Richardson

Population

	Number	Percent %
1970	345	
1980	405	
1990	412	
2000	485	
2002	496	
Percent % of Change 1990-2000	73	17.72%
Percent % of Change 1970-2000	140	40.58%
65 and Over of 2000 Population	104	21.44%
85 and Over of 2000 Population	15	3.09%

Population By Race

	Number	Percent %
White	472	97.32%
Black or African American	1	0.21%
American Indian or Alaska Native	3	0.62%
Asian	2	0.41%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	5	1.03%
Two or More Races	2	0.41%
Total	485	100.00%
Hispanic or Latino	2	0.41%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	3	0.79%
7th to 8th grade	41	10.76%
9th grade	22	5.77%
10th grade	12	3.15%
11th grade	14	3.67%
12th grade, no diploma	4	1.05%
High school graduate (include equivalency)	196	51.44%
Some college, less than 1 year	34	8.92%
Some college, 1 or more years, no degree	36	9.45%
Associate degree	6	1.57%
Bachelor's degree	6	1.57%
Master's degree	0	0.00%
Professional school degree	7	1.84%
Doctorate degree	0	0.00%
Total	381	100.00%

Housing

	Number	Percent %
Number of Households	209	
Persons per Household	2.32	
Number of Housing Units	412	
Vacant Units Non Seasonal	6	1.46%
Vacant Units Seasonal	197	47.82%
Owner Occupied Units	195	47.33%
Renter Occupied Units	14	3.40%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	4	0.97%
Built 1995 to 1998	29	7.06%
Built 1990 to 1994	34	8.27%
Built 1980 to 1989	83	20.19%
Built 1970 to 1979	567	137.96%
Built 1960 to 1969	48	11.68%
Built 1950 to 1959	44	10.71%
Built 1940 to 1949	46	11.19%
Built 1939 and Earlier	66	16.06%
Total	411	100.00%

Heating Method

	Number	Percent %
Utility Gas	20	9.22%
Bottled, tank, or LP gas	118	54.38%
Electricity	2	0.92%
Fuel Oil, kerosene, etc.	36	16.59%
Coal or coke	0	0.00%
Wood	41	18.89%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	217	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	88,728,000
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Economic Development

	Number
Average Income	39,344
Median Income	33,438
Per Capita Income	16,531
Total Population	485
Total Income	8,612,500

Poverty

	Number
Income below poverty level	18
Income at or above poverty level	200

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	12	4.78%
Agriculture, forestry, fishing and hunting	12	4.78%
Mining	0	0.00%
Construction	42	16.73%
Manufacturing	39	15.54%
Wholesale trade	6	2.39%
Retail trade	19	7.57%
Transportation and warehousing, and utilities	14	5.58%
Transportation and warehousing	10	3.98%
Utilities	4	1.59%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	11	4.38%
Finance and insurance	11	4.38%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	11	4.38%
Professional ,scientific, and technical services	6	2.39%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	5	1.99%
Educational, health and social services	41	16.33%
Educational services	8	3.19%
Health care and social assistance	33	13.15%
Arts, entertainment, recreation, accommodation and food services	35	13.94%
Arts, entertainment, and recreation	21	8.37%
Accommodation and food services	14	5.58%
Other services	4	1.59%
Pubic Administration	17	6.77%
Total	251	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	214	88.43%
Drive alone	177	73.14%
Carpooled	37	15.29%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	2	0.83%
Other means	0	0.00%
Worked at home	26	10.74%
Total	242	100.00%

Mean Travel Time to Work	39.5
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Township of Ripley

Population

	Number	Percent %
1970	562	
1980	615	
1990	607	
2000	692	
2002	715	
Percent % of Change 1990-2000	85	14.00%
Percent % of Change 1970-2000	130	23.13%
65 and Over of 2000 Population	72	10.40%
85 and Over of 2000 Population	5	0.72%

Population By Race

	Number	Percent %
White	684	98.84%
Black or African American	0	0.00%
American Indian or Alaska Native	4	0.58%
Asian	2	0.29%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.29%
Total	692	100.00%
Hispanic or Latino	2	0.29%

Education Attainment

	Number	Percent %
No Schooling completed	2	0.48%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	29	6.95%
9th grade	28	6.71%
10th grade	19	4.56%
11th grade	17	4.08%
12th grade, no diploma	4	0.96%
High school graduate (include equivalency)	165	39.57%
Some college, less than 1 year	35	8.39%
Some college, 1 or more years, no degree	46	11.03%
Associate degree	40	9.59%
Bachelor's degree	33	7.91%
Master's degree	6	1.44%
Professional school degree	3	0.72%
Doctorate degree	0	0.00%
Total	417	100.00%

Housing

	Number	Percent %
Number of Households	230	
Persons per Household	3.01	
Number of Housing Units	254	
Vacant Units Non Seasonal	8	3.15%
Vacant Units Seasonal	16	6.30%
Owner Occupied Units	222	87.40%
Renter Occupied Units	8	3.15%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	9	3.50%
Built 1995 to 1998	31	12.06%
Built 1990 to 1994	23	8.95%
Built 1980 to 1989	35	13.62%
Built 1970 to 1979	61	23.74%
Built 1960 to 1969	27	10.51%
Built 1950 to 1959	4	1.56%
Built 1940 to 1949	11	4.28%
Built 1939 and Earlier	56	21.79%
Total	257	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	0.86%
Bottled, tank, or LP gas	120	51.50%
Electricity	23	9.87%
Fuel Oil, kerosene, etc.	37	15.88%
Coal or coke	0	0.00%
Wood	49	21.03%
Solar energy	0	0.00%
Other fuel	2	0.86%
No fuel used	0	0.00%
Total	233	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	61,583,300
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Economic Development

	Number
Average Income	44,106
Median Income	38,875
Per Capita Income	14,881
Total Population	692
Total Income	10,475,900

Poverty

	Number
Income below poverty level	26
Income at or above poverty level	209

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	35	10.45%
Agriculture, forestry, fishing and hunting	35	10.45%
Mining	0	0.00%
Construction	19	5.67%
Manufacturing	72	21.49%
Wholesale trade	3	0.90%
Retail trade	46	13.73%
Transportation and warehousing, and utilities	29	8.66%
Transportation and warehousing	23	6.87%
Utilities	6	1.79%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	9	2.69%
Finance and insurance	8	2.39%
Real estate and rental and leasing	1	0.30%
Professional , scientific, management, administrative, and waste management services	19	5.67%
Professional ,scientific, and technical services	12	3.58%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	7	2.09%
Educational, health and social services	56	16.72%
Educational services	17	5.07%
Health care and social assistance	39	11.64%
Arts, entertainment, recreation, accommodation and food services	14	4.18%
Arts, entertainment, and recreation	2	0.60%
Accommodation and food services	12	3.58%
Other services	12	3.58%
Pubic Administration	21	6.27%
Total	335	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	282	84.18%
Drive alone	255	76.12%
Carpooled	27	8.06%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	5	1.49%
Other means	2	0.60%
Worked at home	46	13.73%
Total	335	100.00%

Mean Travel Time to Work	28.5
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Township of Rosing

Population

	Number	Percent %
1970	64	
1980	103	
1990	105	
2000	135	
2002	145	
Percent % of Change 1990-2000	30	28.57%
Percent % of Change 1970-2000	71	110.94%
65 and Over of 2000 Population	24	17.78%
85 and Over of 2000 Population	0	0.00%

Population By Race

	Number	Percent %
White	133	98.52%
Black or African American	0	0.00%
American Indian or Alaska Native	2	1.48%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	135	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	3	3.03%
9th grade	5	5.05%
10th grade	2	2.02%
11th grade	2	2.02%
12th grade, no diploma	0	0.00%
High school graduate (include equivalency)	40	40.40%
Some college, less than 1 year	11	11.11%
Some college, 1 or more years, no degree	17	17.17%
Associate degree	6	6.06%
Bachelor's degree	11	11.11%
Master's degree	0	0.00%
Professional school degree	2	2.02%
Doctorate degree	0	0.00%
Total	99	100.00%

Housing

	Number	Percent %
Number of Households	53	
Persons per Household	2.55	
Number of Housing Units	92	
Vacant Units Non Seasonal	1	1.09%
Vacant Units Seasonal	38	41.30%
Owner Occupied Units	51	55.43%
Renter Occupied Units	2	2.17%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	11	11.96%
Built 1995 to 1998	18	19.57%
Built 1990 to 1994	10	10.87%
Built 1980 to 1989	13	14.13%
Built 1970 to 1979	24	26.09%
Built 1960 to 1969	2	2.17%
Built 1950 to 1959	3	3.26%
Built 1940 to 1949	0	0.00%
Built 1939 and Earlier	11	11.96%
Total	92	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	23	41.07%
Electricity	16	28.57%
Fuel Oil, kerosene, etc.	15	26.79%
Coal or coke	0	0.00%
Wood	2	3.57%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	56	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	18,612,400
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Economic Development

	Number
Average Income	44,093
Median Income	43,500
Per Capita Income	19,955
Total Population	135
Total Income	2,614,100

Poverty

	Number
Income below poverty level	5
Income at or above poverty level	53

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	0	0.00%
Agriculture, forestry, fishing and hunting	0	0.00%
Mining	0	0.00%
Construction	4	6.67%
Manufacturing	14	23.33%
Wholesale trade	0	0.00%
Retail trade	5	8.33%
Transportation and warehousing, and utilities	0	0.00%
Transportation and warehousing	0	0.00%
Utilities	0	0.00%
Information	0	0.00%
Finance, insurance, real estate and rental and leasing	0	0.00%
Finance and insurance	0	0.00%
Real estate and rental and leasing	0	0.00%
Professional , scientific, management, administrative, and waste management services	4	6.67%
Professional ,scientific, and technical services	2	3.33%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	2	3.33%
Educational, health and social services	23	38.33%
Educational services	7	11.67%
Health care and social assistance	16	26.67%
Arts, entertainment, recreation, accommodation and food services	7	11.67%
Arts, entertainment, and recreation	2	3.33%
Accommodation and food services	5	8.33%
Other services	0	0.00%
Pubic Administration	3	5.00%
Total	60	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	58	100.00%
Drive alone	53	91.38%
Carpooled	5	8.62%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	0	0.00%
Other means	0	0.00%
Worked at home	0	0.00%
Total	58	100.00%

Mean Travel Time to Work	24.3
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Township of Scandia Valley

Population

	Number	Percent %
1970	626	
1980	919	
1990	949	
2000	1,217	
2002	1,228	
Percent % of Change 1990-2000	268	28.24%
Percent % of Change 1970-2000	591	94.41%
65 and Over of 2000 Population	301	24.73%
85 and Over of 2000 Population	19	1.56%

Population By Race

	Number	Percent %
White	1,208	99.26%
Black or African American	1	0.08%
American Indian or Alaska Native	1	0.08%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	1	0.08%
Two or More Races	6	0.49%
Total	1,217	100.00%
Hispanic or Latino	7	0.58%

Education Attainment

	Number	Percent %
No Schooling completed	1	0.11%
Nursery to 4th grade	0	0.00%
5th to 6th grade	2	0.22%
7th to 8th grade	56	6.03%
9th grade	14	1.51%
10th grade	27	2.91%
11th grade	44	4.74%
12th grade, no diploma	13	1.40%
High school graduate (include equivalency)	368	39.61%
Some college, less than 1 year	90	9.69%
Some college, 1 or more years, no degree	138	14.85%
Associate degree	60	6.46%
Bachelor's degree	92	9.90%
Master's degree	18	1.94%
Professional school degree	6	0.65%
Doctorate degree	0	0.00%
Total	929	100.00%

Housing

	Number	Percent %
Number of Households	550	
Persons per Household	2.21	
Number of Housing Units	1,562	
Vacant Units Non Seasonal	17	1.09%
Vacant Units Seasonal	995	63.70%
Owner Occupied Units	506	32.39%
Renter Occupied Units	44	2.82%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	41	2.65%
Built 1995 to 1998	81	5.23%
Built 1990 to 1994	85	5.48%
Built 1980 to 1989	312	20.13%
Built 1970 to 1979	295	19.03%
Built 1960 to 1969	323	20.84%
Built 1950 to 1959	149	9.61%
Built 1940 to 1949	138	8.90%
Built 1939 and Earlier	126	8.13%
Total	1550	100.00%

Heating Method

	Number	Percent %
Utility Gas	10	1.85%
Bottled, tank, or LP gas	325	60.07%
Electricity	56	10.35%
Fuel Oil, kerosene, etc.	71	13.12%
Coal or coke	0	0.00%
Wood	77	14.23%
Solar energy	0	0.00%
Other fuel	2	0.37%
No fuel used	0	0.00%
Total	541	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	350,506,000
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Economic Development

	Number
Average Income	45,497
Median Income	
Per Capita Income	19,590
Total Population	1,217
Total Income	24,667,900

Poverty

	Number
Income below poverty level	41
Income at or above poverty level	505

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	23	4.40%
Agriculture, forestry, fishing and hunting	23	4.40%
Mining	0	0.00%
Construction	53	10.13%
Manufacturing	91	17.40%
Wholesale trade	21	4.02%
Retail trade	68	13.00%
Transportation and warehousing, and utilities	39	7.46%
Transportation and warehousing	33	6.31%
Utilities	6	1.15%
Information	5	0.96%
Finance, insurance, real estate and rental and leasing	13	2.49%
Finance and insurance	11	2.10%
Real estate and rental and leasing	2	0.38%
Professional , scientific, management, administrative, and waste management services	25	4.78%
Professional ,scientific, and technical services	13	2.49%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	12	2.29%
Educational, health and social services	92	17.59%
Educational services	41	7.84%
Health care and social assistance	51	9.75%
Arts, entertainment, recreation, accommodation and food services	51	9.75%
Arts, entertainment, and recreation	8	1.53%
Accommodation and food services	43	8.22%
Other services	21	4.02%
Pubic Administration	21	4.02%
Total	523	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	465	91.90%
Drive alone	413	81.62%
Carpooled	52	10.28%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	11	2.17%
Other means	5	0.99%
Worked at home	25	4.94%
Total	506	100.00%

Mean Travel Time to Work	28.5
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Township of Swan River

Population

	Number	Percent %
1970	733	
1980	856	
1990	759	
2000	755	
2002	770	
Percent % of Change 1990-2000	-4	-0.53%
Percent % of Change 1970-2000	22	3.00%
65 and Over of 2000 Population	62	8.21%
85 and Over of 2000 Population	5	0.66%

Population By Race

	Number	Percent %
White	754	99.87%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	0	0.00%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	1	0.13%
Total	755	100.00%
Hispanic or Latino	2	0.26%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	5	1.14%
7th to 8th grade	38	8.70%
9th grade	2	0.46%
10th grade	14	3.20%
11th grade	9	2.06%
12th grade, no diploma	2	0.46%
High school graduate (include equivalency)	191	43.71%
Some college, less than 1 year	38	8.70%
Some college, 1 or more years, no degree	51	11.67%
Associate degree	29	6.64%
Bachelor's degree	43	9.84%
Master's degree	10	2.29%
Professional school degree	5	1.14%
Doctorate degree	0	0.00%
Total	437	100.00%

Housing

	Number	Percent %
Number of Households	238	
Persons per Household	3.17	
Number of Housing Units	253	
Vacant Units Non Seasonal	12	4.74%
Vacant Units Seasonal	3	1.19%
Owner Occupied Units	216	85.38%
Renter Occupied Units	22	8.70%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	5	1.98%
Built 1995 to 1998	13	5.16%
Built 1990 to 1994	23	9.13%
Built 1980 to 1989	46	18.25%
Built 1970 to 1979	43	17.06%
Built 1960 to 1969	27	10.71%
Built 1950 to 1959	14	5.56%
Built 1940 to 1949	14	5.56%
Built 1939 and Earlier	67	26.59%
Total	252	100.00%

Heating Method

	Number	Percent %
Utility Gas	3	1.29%
Bottled, tank, or LP gas	82	35.34%
Electricity	14	6.03%
Fuel Oil, kerosene, etc.	99	42.67%
Coal or coke	0	0.00%
Wood	34	14.66%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	232	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	58,659,000
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Economic Development

	Number
Average Income	48,826
Median Income	45,536
Per Capita Income	14,819
Total Population	755
Total Income	11,233,000

Poverty

	Number
Income below poverty level	22
Income at or above poverty level	205

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	67	17.01%
Agriculture, forestry, fishing and hunting	67	17.01%
Mining	0	0.00%
Construction	18	4.57%
Manufacturing	85	21.57%
Wholesale trade	25	6.35%
Retail trade	36	9.14%
Transportation and warehousing, and utilities	17	4.31%
Transportation and warehousing	12	3.05%
Utilities	5	1.27%
Information	4	1.02%
Finance, insurance, real estate and rental and leasing	13	3.30%
Finance and insurance	6	1.52%
Real estate and rental and leasing	7	1.78%
Professional , scientific, management, administrative, and waste management services	14	3.55%
Professional ,scientific, and technical services	11	2.79%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	0.76%
Educational, health and social services	67	17.01%
Educational services	35	8.88%
Health care and social assistance	32	8.12%
Arts, entertainment, recreation, accommodation and food services	17	4.31%
Arts, entertainment, and recreation	7	1.78%
Accommodation and food services	10	2.54%
Other services	13	3.30%
Pubic Administration	18	4.57%
Total	394	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	319	81.79%
Drive alone	289	74.10%
Carpooled	30	7.69%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	2	0.51%
Walked	19	4.87%
Other means	0	0.00%
Worked at home	50	12.82%
Total	390	100.00%

Mean Travel Time to Work	24.9
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Township of Swanville

Population

	Number	Percent %
1970	493	
1980	566	
1990	504	
2000	534	
2002	562	
Percent % of Change 1990-2000	30	5.95%
Percent % of Change 1970-2000	41	8.32%
65 and Over of 2000 Population	69	12.92%
85 and Over of 2000 Population	7	1.31%

Population By Race

	Number	Percent %
White	525	98.31%
Black or African American	0	0.00%
American Indian or Alaska Native	0	0.00%
Asian	9	1.69%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	0	0.00%
Total	534	100.00%
Hispanic or Latino	0	0.00%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	0	0.00%
7th to 8th grade	30	9.35%
9th grade	6	1.87%
10th grade	24	7.48%
11th grade	9	2.80%
12th grade, no diploma	3	0.93%
High school graduate (include equivalency)	138	42.99%
Some college, less than 1 year	37	11.53%
Some college, 1 or more years, no degree	28	8.72%
Associate degree	9	2.80%
Bachelor's degree	37	11.53%
Master's degree	0	0.00%
Professional school degree	0	0.00%
Doctorate degree	0	0.00%
Total	321	100.00%

Housing

	Number	Percent %
Number of Households	176	
Persons per Household	3.03	
Number of Housing Units	184	
Vacant Units Non Seasonal	7	3.80%
Vacant Units Seasonal	1	0.54%
Owner Occupied Units	153	83.15%
Renter Occupied Units	23	12.50%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	8	4.68%
Built 1995 to 1998	6	3.51%
Built 1990 to 1994	9	5.26%
Built 1980 to 1989	19	11.11%
Built 1970 to 1979	33	19.30%
Built 1960 to 1969	15	8.77%
Built 1950 to 1959	1	0.58%
Built 1940 to 1949	9	5.26%
Built 1939 and Earlier	71	41.52%
Total	171	100.00%

Heating Method

	Number	Percent %
Utility Gas	2	1.17%
Bottled, tank, or LP gas	48	28.07%
Electricity	3	1.75%
Fuel Oil, kerosene, etc.	63	36.84%
Coal or coke	0	0.00%
Wood	55	32.16%
Solar energy	0	0.00%
Other fuel	0	0.00%
No fuel used	0	0.00%
Total	171	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	46,743,000
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Economic Development

	Number
Average Income	43,002
Median Income	36,458
Per Capita Income	13,955
Total Population	534
Total Income	7,605,700

Poverty

	Number
Income below poverty level	26
Income at or above poverty level	153

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	66	23.40%
Agriculture, forestry, fishing and hunting	66	23.40%
Mining	0	0.00%
Construction	20	7.09%
Manufacturing	42	14.89%
Wholesale trade	16	5.67%
Retail trade	21	7.45%
Transportation and warehousing, and utilities	6	2.13%
Transportation and warehousing	4	1.42%
Utilities	2	0.71%
Information	3	1.06%
Finance, insurance, real estate and rental and leasing	20	7.09%
Finance and insurance	18	6.38%
Real estate and rental and leasing	2	0.71%
Professional , scientific, management, administrative, and waste management services	13	4.61%
Professional ,scientific, and technical services	10	3.55%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	3	1.06%
Educational, health and social services	47	16.67%
Educational services	31	10.99%
Health care and social assistance	16	5.67%
Arts, entertainment, recreation, accommodation and food services	3	1.06%
Arts, entertainment, and recreation	2	0.71%
Accommodation and food services	1	0.35%
Other services	9	3.19%
Pubic Administration	16	5.67%
Total	282	100.00%

Top 3 Employers

	Number of Employees

Transportation

	Number	Percent %
Car, Truck or van	208	75.09%
Drive alone	174	62.82%
Carpooled	34	12.27%
Public Transportation	0	0.00%
Bus or trolley bus	0	0.00%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	17	6.14%
Other means	2	0.72%
Worked at home	50	18.05%
Total	277	100.00%

Mean Travel Time to Work	24.2
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Township of Two Rivers

Population

	Number	Percent %
1970	518	
1980	600	
1990	576	
2000	582	
2002	612	
Percent % of Change 1990-2000	6	1.04%
Percent % of Change 1970-2000	64	12.36%
65 and Over of 2000 Population	46	7.90%
85 and Over of 2000 Population	13	2.23%

Population By Race

	Number	Percent %
White	577	99.14%
Black or African American	1	0.17%
American Indian or Alaska Native	1	0.17%
Asian	1	0.17%
Native Hawaiian and Other Pacific Islanders	0	0.00%
Other Single Race	0	0.00%
Two or More Races	2	0.34%
Total	582	100.00%
Hispanic or Latino	3	0.52%

Education Attainment

	Number	Percent %
No Schooling completed	0	0.00%
Nursery to 4th grade	0	0.00%
5th to 6th grade	1	0.30%
7th to 8th grade	26	7.74%
9th grade	4	1.19%
10th grade	4	1.19%
11th grade	6	1.79%
12th grade, no diploma	4	1.19%
High school graduate (include equivalency)	145	43.15%
Some college, less than 1 year	20	5.95%
Some college, 1 or more years, no degree	56	16.67%
Associate degree	28	8.33%
Bachelor's degree	33	9.82%
Master's degree	7	2.08%
Professional school degree	2	0.60%
Doctorate degree	0	0.00%
Total	336	100.00%

Housing

	Number	Percent %
Number of Households	192	
Persons per Household	3.03	
Number of Housing Units	201	
Vacant Units Non Seasonal	5	2.49%
Vacant Units Seasonal	4	1.99%
Owner Occupied Units	178	88.56%
Renter Occupied Units	14	6.97%

Age of Housing

	Number	Percent %
Built 1999 to March 2000	10	5.21%
Built 1995 to 1998	14	7.29%
Built 1990 to 1994	9	4.69%
Built 1980 to 1989	37	19.27%
Built 1970 to 1979	32	16.67%
Built 1960 to 1969	7	3.65%
Built 1950 to 1959	7	3.65%
Built 1940 to 1949	4	2.08%
Built 1939 and Earlier	72	37.50%
Total	192	100.00%

Heating Method

	Number	Percent %
Utility Gas	0	0.00%
Bottled, tank, or LP gas	75	40.54%
Electricity	9	4.86%
Fuel Oil, kerosene, etc.	54	29.19%
Coal or coke	0	0.00%
Wood	45	24.32%
Solar energy	0	0.00%
Other fuel	2	1.08%
No fuel used	0	0.00%
Total	185	100.00%

Group Quarter

	Number	Percent %
Correctional institutions	0	
Nursing Homes	0	
Other institutions	0	
College dormitories	0	
Military quarters	0	
Other non institutional group quarters	0	
Total	0	

Market Values

Estimated Market Value	51,591,600
------------------------	------------

Economic Development

	Number
Average Income	56,222
Median Income	47,656
Per Capita Income	19,067
Total Population	582
Total Income	10,792,000

Poverty

	Number
Income below poverty level	13
Income at or above poverty level	172

Industry

	Number	Percent %
Agriculture, forestry, Fishing and hunting and mining	47	14.69%
Agriculture, forestry, fishing and hunting	47	14.69%
Mining	0	0.00%
Construction	49	15.31%
Manufacturing	73	22.81%
Wholesale trade	5	1.56%
Retail trade	35	10.94%
Transportation and warehousing, and utilities	15	4.69%
Transportation and warehousing	11	3.44%
Utilities	4	1.25%
Information	4	1.25%
Finance, insurance, real estate and rental and leasing	7	2.19%
Finance and insurance	5	1.56%
Real estate and rental and leasing	2	0.63%
Professional , scientific, management, administrative, and waste management services	9	2.81%
Professional ,scientific, and technical services	0	0.00%
Management of companies and enterprises	0	0.00%
Administrative and support and waste management services	9	2.81%
Educational, health and social services	62	19.38%
Educational services	21	6.56%
Health care and social assistance	41	12.81%
Arts, entertainment, recreation, accommodation and food services	9	2.81%
Arts, entertainment, and recreation	0	0.00%
Accommodation and food services	9	2.81%
Other services	5	1.56%
Public Administration	0	0.00%
Total	320	100.00%

Top 3 Employers

	Number of Employees
Total	

Transportation

	Number	Percent %
Car, Truck or van	254	79.38%
Drive alone	218	68.13%
Carpooled	36	11.25%
Public Transportation	2	0.63%
Bus or trolley bus	2	0.63%
Streetcar or trolley car	0	0.00%
Subway or elevated	0	0.00%
Railroad	0	0.00%
Ferry boat	0	0.00%
Taxicab	0	0.00%
Motorcycle	0	0.00%
Bicycle	0	0.00%
Walked	7	2.19%
Other means	3	0.94%
Worked at home	54	16.88%
Total	320	100.00%

Mean Travel Time to Work	32.1
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**APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency
Shelters/Gathering Facilities**

LAW ENFORCEMENT AGENCIES

SHERIFF

Sheriff's Office
PO Box 312
Little Falls, MN 56345

LITTLE FALLS POLICE

Police Department
207 NE 1st Street
Little Falls, MN 56345

MOTLEY POLICE

Police Department
City Hall PO Box 66
Motley, MN 56466

PIERZ POLICE

Police Department
City Hall
Pierz, MN 56364

RANDALL POLICE

City Hall
Randall, MN 56475

ROYALTON POLICE

City Hall
Royalton, MN 56373

**APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency
Shelters/Gathering Facilities**

BOWLUS FIRE DEPARTMENT

153 Main Street
Bowlus, MN 56314

FLENSBURG FIRE DEPARTMENT

14 North Elm Street
Flensburg, MN 56328

LITTLE FALLS FIRE DEPARTMENT

314 NE 1st Street
Little Falls, MN 56345

MOTLEY FIRE DEPARTMENT

316 Highway 10 South
Motley, MN 56466

PIERZ FIRE DEPARTMENT

222 ½ Main Street
Pierz, MN 56364

RANDALL FIRE DEPARTMENT

Pacific Avenue & East 6th Street
Randall, MN 56475

ROYALTON FIRE DEPARTMENT

5 North Cedar Street
Royalton, MN 56373

SCANDIA VALLEY FIRE DEPARTMENT

3518 320th Street
Cushing, MN 56443

SWANVILLE FIRE DEPARTMENT

30 First Street
Swanville, MN 56382

**APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency
Shelters/Gathering Facilities**

UPSALA FIRE DEPARTMENT

110 West Elm Avenue
Upsala, MN 56384

DEPARTMENT OF NATURAL RESOURCES – FORESTRY

16543 Haven Road
Little Falls, MN 56345

AMBULANCE

GOLD CROSS AMBULANCE

111 5th Street SE
Little Falls, MN 56345

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

CHURCHES

BOWLUS

St. Stanislaus Kostka
428 Main Street
PO Box 8
Bowlus, MN 56314

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

BUCKMAN

St. Michael's Church
26966 93rd Street
Buckman, MN 56317

CUSHING

Cushing Baptist Church
26298 Bear Road
Cushing, MN 56443

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Bethany Lutheran Church
26286 Bear Road
PO Box 37
Cushing, MN 56443
Contact Name:

Resources

Running water.
Kitchen & cooking area.
Dishes, pots, pans, silverware, etc.
Both male and female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

DIXVILLE

St. John's Lutheran Church
26733 63rd Street
Royalton, MN 56373

ELMDALE

St. Edward's Catholic Church
8550 State Highway 238
Bowlus, MN 56314

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.

Could the church be used as a temporary shelter for the public? Yes

Community-Country Church
9948 20th Street
Holdingford, MN 56340

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms

Note: There is also a handicap accessible restroom.

FLENSBURG

Sacred Heart
18 Pine Street
Flensburg, MN 56328

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

HARDING

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

Holy Cross Church
29482 243rd Street
Harding, MN 56364

HILLMAN

St. Rita's Catholic Church
16691 371st Avenue
Hillman, MN 56338
Contact Name:

Resources

Running water.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

**Note: Kitchen or cooking area in a separate building.
Dishes, pots, pans, silverware, etc. in a separate building.**

Immanuel Lutheran
16743 372nd Avenue
Hillman, MN 56338

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms. (unisex)

Could the church be used as a temporary shelter for the public? Yes

Lakeview Community Church
25538 370th Avenue
Hillman, MN 56338

LASTRUP

St. John's Nepomuk Catholic Church
28520 Church Street
PO Box 38
Lastrup, MN 56344

Resources

Running water.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

**Note: No kitchen or cooking area.
No dishes, pots, pans, silverware, etc.**

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

LINCOLN

Lincoln Evangelical Free Church
1354 320th Street
Cushing, MN 56443

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

LITTLE FALLS

Our Lady of Lourdes
208 West Broadway
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathroom.

Could the church be used as a temporary shelter for the public? Yes

Holy Family Catholic Church
18777 Riverwood Drive
Little Falls, MN 56345
Contact Name:

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Note: The church has no showers. Basement holds about 130 people at tables. For more information contact: Central Minnesota TEC, 516 School Street, Anoka, MN 55303. The large building to the north of the church has showers, beds, and a full kitchen w/dishes. It would house approximately 200 people.

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

St. Mary's Church
305 4th Street SE
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Sacred Heart Chapel
116 SE 8th Avenue
Little Falls, MN 56345-3597

Resources

Running water.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Note: Dining space available with all meals cooked by their staff.

First Baptist Church
400 East Broadway
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Assembly of God
17389 Haven Road
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Little Falls Alliance Church
903 13th Avenue NE

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

Little Falls, MN 56345

Resources

Running water.

Kitchen or cooking area.

Dishes, pots, pans, silverware, etc.

Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? **Yes**

Episcopal Church of Our Saviour

113 NE 4th Street

PO Box 344

Little Falls, MN 56345

Resources

Running water.

Kitchen or cooking area.

Dishes, pots, pans, silverware, etc.

Both male & female bathrooms. (unisex)

Could the church be used as a temporary shelter for the public? **Yes**

Grace Covenant Church

17117 Riverwood Drive

Little Falls, MN 56345

Bethel Lutheran Church

321 West Broadway

Little Falls, MN 56345

Resources

Running water.

Kitchen or cooking area.

Dishes, pots, pans, silverware, etc.

Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? **Yes**

First Lutheran Church

2100 Riverview Drive

Little Falls, MN 56345

Resources

Running water.

Kitchen or cooking area.

Dishes, pots, pans, silverware, etc.

Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? **Maybe**

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

First United Church
1000 SE 1st Street
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Zion Lutheran
411 NE 3rd Avenue
PO Box 286
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Church of the Nazarene
15197 Edgewood Road
Little Falls, MN 56345

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Faith, Hope and Love Fellowship Telephone 632-2100
11881 Edgar Drive
PO Box 71
Little Falls, MN 56345

Kingdom Hall Jehovah's Witnesses
14827 Prairie Drive
Little Falls, MN 56345

Resources

Running water.
Both male & female bathrooms.

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

Could the church be used as a temporary shelter for the public? Yes

**Note: No kitchen or cooking area.
No dishes, pots pans, silverware, etc.**

MORRILL

St. Joseph's
33009 Nature Road (church location)
16454 125th Avenue NE (mailing address)
Foley, MN 56329

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

MOTLEY

St. Michael's Catholic Church
296 1st Avenue South
Motley, MN 56466

St. John's Lutheran Church
497 3rd Avenue South
Motley, MN 56466

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & Female bathrooms.

Could the church be used as a temporary shelter for the public? **Maybe**

United Methodist
217 3rd Avenue South
Motley, MN 56466

NORTH PRAIRIE

Holy Cross Catholic Church
14891 Gable Road
PO Box 258
Royalton, MN 56373

Resources

Running water.

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

PIERZ

St. Joseph's Church
68 North Main Street
PO Box 428
Pierz, MN 56364

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Faith Community Church
217 3rd Avenue NW
Pierz, MN 56364

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

RAMEY

Bethany Lutheran Church
34238 Nature Road
Foley, MN 56329

Resources

Running water.
Kitchen or cooking area. (hall)
Dishes, pots, pans, silverware, etc. (hall)
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

RANDALL

St. James Catholic Church
403 East Minnesota Avenue
PO Box 225
Randall, MN 56475

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

St. Peter's Lutheran
413 Parkview Drive (church location)
121 East 6th Street (mailing address)
Randall, MN 56475

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Note: Bathrooms and social area are not handicapped accessible.

Randall Presbyterian Church
217 1st Street
Randall, MN 56475

ROYALTON

Church of the Holy Trinity
212 2nd Street North
PO Box 258
Royalton, MN 56373

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency Shelters/Gathering Facilities

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Mount Olive Lutheran Church
201 Johnson Street
PO Box 322
Upsala, MN 56384

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Gethsemane Lutheran Church
418 South Main Street
PO Box 128
Upsala, MN 56384

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Word of Life Free Lutheran
3328 1st Avenue West
PO box 220
Upsala, MN 56384

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Other information: **Fully handicap accessible**

**APPENDIX C: Inventory of Law Enforcement/Fire/Ambulance/Emergency
Shelters/Gathering Facilities**

Community Covenant Church
122 South Main Street
PO Box 278
Upsala, MN 56384

Resources

Running water.
Kitchen or cooking area.
Dishes, pots, pans, silverware, etc.
Both male & female bathrooms.

Could the church be used as a temporary shelter for the public? Yes

Note: Handicap accessible inside. Bathrooms are marginal for wheel chairs.

APPENDIX D: Morrison County U.S. Census Data (2000)

POPULATION AND HOUSING

Population

Census Year	Morrison County	% Increase
1960	26,641	X
1970	26,949	1.1
1980	29,311	8.8
1990	29,604	1.0
2000	31,712	7.1

Population by Age and Gender

	Morrison County	%
Gender		
Male	15,951	50.3
Female	15,761	49.7
Age		
Under 5 years	2,105	6.6
5 to 9 years	2,291	7.2
10 to 14 years	2,768	8.7
15 to 19 years	2,648	8.4
20 to 24 years	1,607	5.1
25 to 34 years	3,537	11.2
35 to 44 years	4,923	15.5
45 to 54 years	4,054	12.8
55 to 59 years	1,463	4.6
60 to 64 years	1,362	4.3
65 to 74 years	2,465	7.8
75 to 84 years	1,784	5.6
85 years and over	705	2.2
Median Age	36.9	

Regional Population

County	Population	Percent(%) Increase 1990-2000
Benton	34,226	13.39
Cass	27,150	24.59
Crow Wing	55,099	24.52
Mille Lacs	22,330	19.60
Todd	24,426	4.55
Stearns	133,166	12.10

APPENDIX D: Morrison County U.S. Census Data (2000)

Households

Census Year	Morrison County	% Increase
1970	9,055	X
1980	11,619	28.37
1990	12,434	7.01
2000	13,870	11.54

Persons per Household

Census Year	Morrison County
1970	3.73
1980	3.08
1990	2.85
2000	2.64

Housing Units

	Number	Percent of Total(%)
Total Housing Units	13,870	100
Occupied Housing Units	11,816	85.2
Vacant Housing Units	2,054	14.8
Seasonal or Recreational	1,670	81.3
Owner-occupied units	9,672	81.9
Renter occupied units	2,144	18.1

Age of Housing

Year Built	Number	Percent
Total Housing units	13,870	100
1999 to March 2000	326	2.35
1995 to 1998	968	6.98
1990 to 1994	992	7.15
1980 to 1989	2,066	14.90
1970 to 1979	2,455	17.70
1960 to 1969	1,482	10.69
1950 to 1959	1,234	8.89
1940 to 1949	883	6.37
1939 to earlier	3,464	24.97

APPENDIX D: Morrison County U.S. Census Data (2000)

EDUCATION

School Enrollment

Type of Education	Number	Percent
Population 3 years and over enrolled in school	8,143	100
Nursery school, preschool	414	5.08
Kindergarten	441	5.42
Elementary School (grades 1-8)	4,143	50.88
High School (grades 9-12)	2,295	28.18
College or graduate school	850	10.44

Educational Attainment

Level of Education	Number	Percent of Total (%)
Population 25 years and over	20,347	100
Less than 9 th grade	2,106	10.35
9 th to 12 th grade, no diploma	2,024	9.94
High school graduate (includes equivalency)	7,878	38.72
Some college, no degree	4,438	21.81
Associate degree	1,328	6.53
Bachelor's degree	1,796	8.83
Graduate or professional degree	777	3.82

ECONOMIC CHARACTERISTICS

Employment

	Number	Percent of Total (%)
Population 16 years and over	23,986	100
In labor force	16,043	66.88
Civilian labor force	15,981	99.61
Employed	15,077	93.99
Unemployed	904	5.62
Percent of civilian labor force		5.66
Armed Force	62	0.39
Not in labor force	7,943	33.12

Household Income

	Number	Percent (%)
Less than \$10,000	1,430	12.08
\$10,000 to \$14,999	766	6.47
\$15,000 to \$24,999	1,715	14.49

APPENDIX D: Morrison County U.S. Census Data (2000)

\$25,000 to \$34,999	1,673	14.14
\$35,000 to \$49,999	2,317	19.58
\$50,000 to \$74,999	2,445	20.66
\$75,000 to \$99,999	907	7.66
\$100,000 to \$149,000	406	3.43
\$150,000 to \$199,999	76	0.64
\$200,000 or more	101	0.85
Average Household Income	\$43,941	

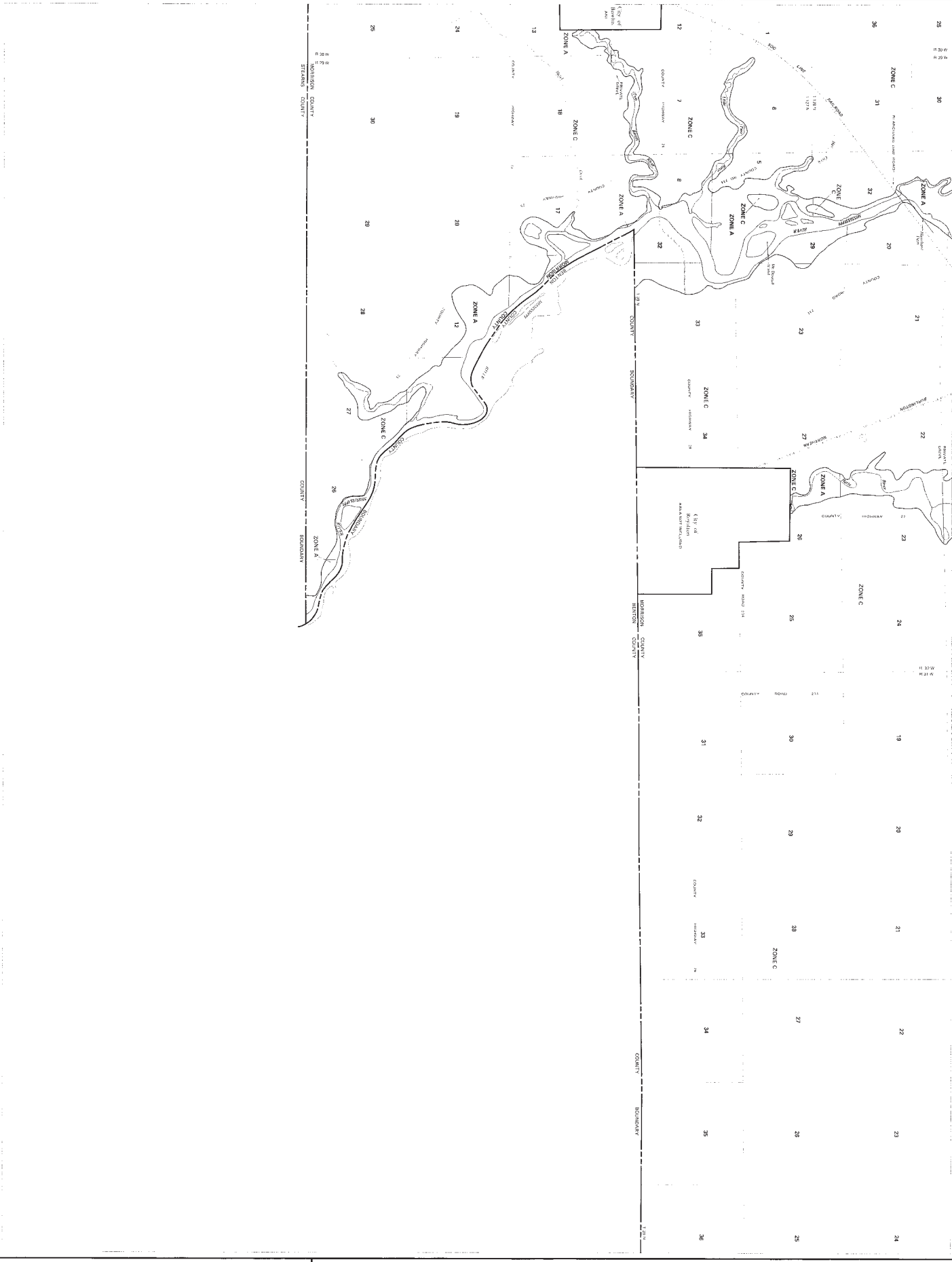
Commuting to Work

	Number	Percent (%)
Sampled workers 16 years of Age and Over	14,849	100
Car, truck or van-drove alone	10,925	73.57
Car, truck or van-carpooled	1,864	12.55
Public Transportation (including taxicab)	26	0.18
Walked	614	4.13
Other means	118	0.80
Worked at home	1,302	8.77
Average travel time to work	24.6 Minutes	

Occupation

	Number	Percent (%)
Sampled workers 16 Years of Age and Over	15,077	100
Management, professional, and related occupations	4,405	29.22
Service occupations	2,160	14.33
Sales and office occupations	3,128	20.75
Farming, fishing, and forestry occupations	362	2.40
Construction, extraction, and maintenance occupations	1,734	11.50
Production, transportation, and material moving occupations	3,288	21.80

APPENDIX E: FLOOD MAPPING



KEY TO MAP

ZONE B
 Intermediate Flood Hazard
 Zone B is designated by the
 number 10 on the map.

ZONE A
 High Flood Hazard
 Zone A is designated by the
 number 20 on the map.

ZONE C
 Low Flood Hazard
 Zone C is designated by the
 number 30 on the map.

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Areas in Zone A are subject to flood
 damage from the Mississippi River
 and other water bodies. These areas
 are subject to the highest flood
 hazard and are designated as Zone A.

ZONE B
 Areas in Zone B are subject to flood
 damage from the Mississippi River
 and other water bodies. These areas
 are subject to a moderate flood
 hazard and are designated as Zone B.

ZONE C
 Areas in Zone C are subject to flood
 damage from the Mississippi River
 and other water bodies. These areas
 are subject to a low flood hazard
 and are designated as Zone C.

GENERAL NOTES:

1. This map is for informational purposes only and does not constitute a contract. For more information, contact your insurance agent.

2. Flood insurance rates are based on the Flood Insurance Rate Map (FIRM) published by the Federal Emergency Management Agency (FEMA).

3. Flood insurance rates may vary by property.

COMMUNITY PANEL NUMBER
 Z70817 0400 B

EFFECTIVE DATE:
 JUNE 15, 1981

FRM
FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 400 OF 433

NATIONAL FLOOD INSURANCE PROGRAM

COMMUNITY PANEL NUMBER
 Z70817 0400 B

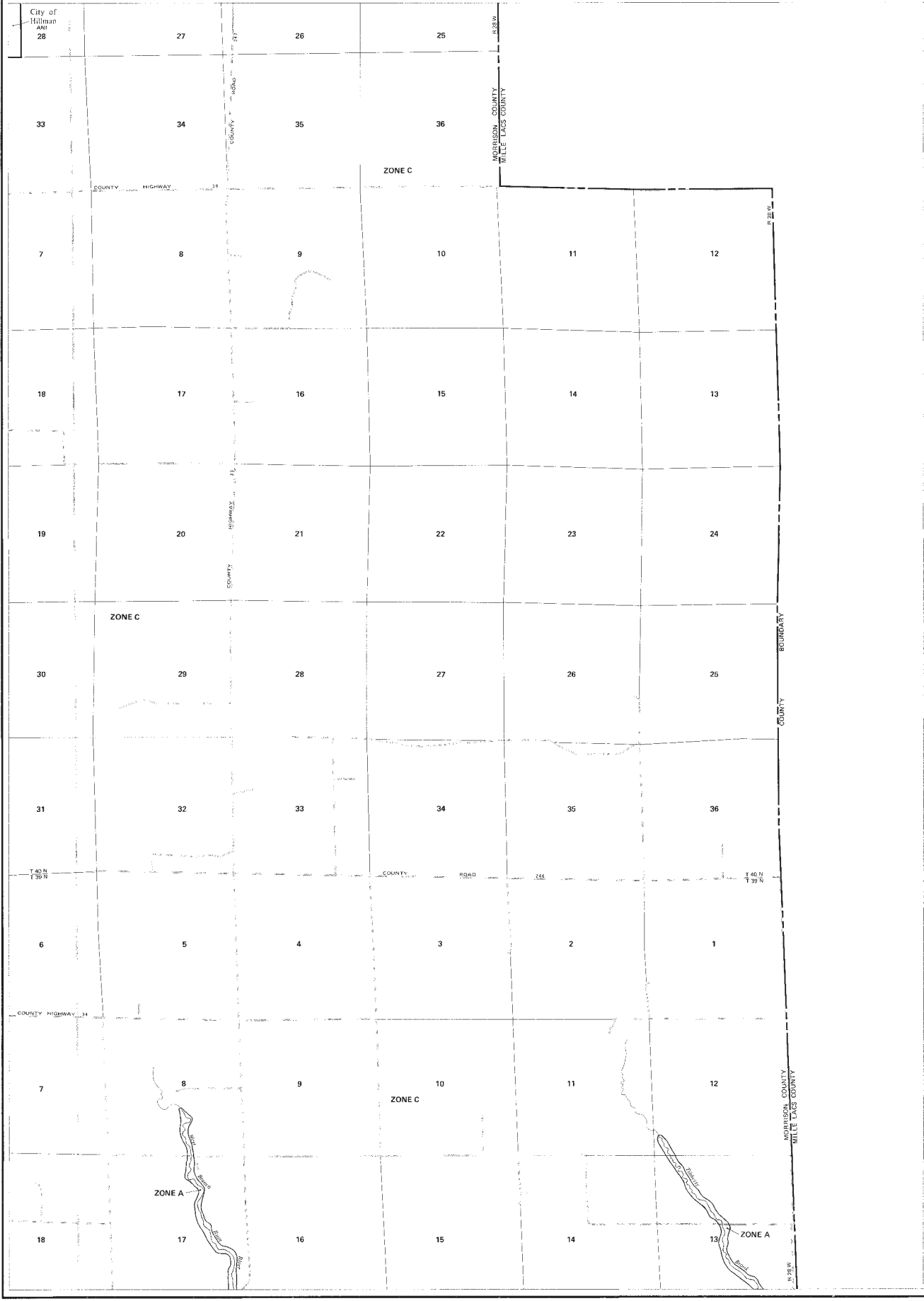
EFFECTIVE DATE:
 JUNE 15, 1981

FRM
FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 400 OF 433

NATIONAL FLOOD INSURANCE PROGRAM



KEY TO MAP

500-Year Flood Boundary
 100-Year Flood Boundary
 Zone Designations* With Date of Identification
 *e.g., 10/27/74
 100-Year Flood Boundary
 500-Year Flood Boundary

Base Flood Elevation Line With Elevation In Feet**
 Base Flood Elevation In Feet Where Uniform Within Zone**
 Elevation Reference Mark
 River Mile

ZONE B

ZONE B

513

(EL 987)

RM7 X

+ M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile or areas protected by levees from the base flood. (Indicate shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all pluvial areas outside special flood hazard areas.

For adopting map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
 APRIL 21, 1978

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
 JUNE 15, 1981

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the **FLOOD INSURANCE RATE MAP EFFECTIVE** date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

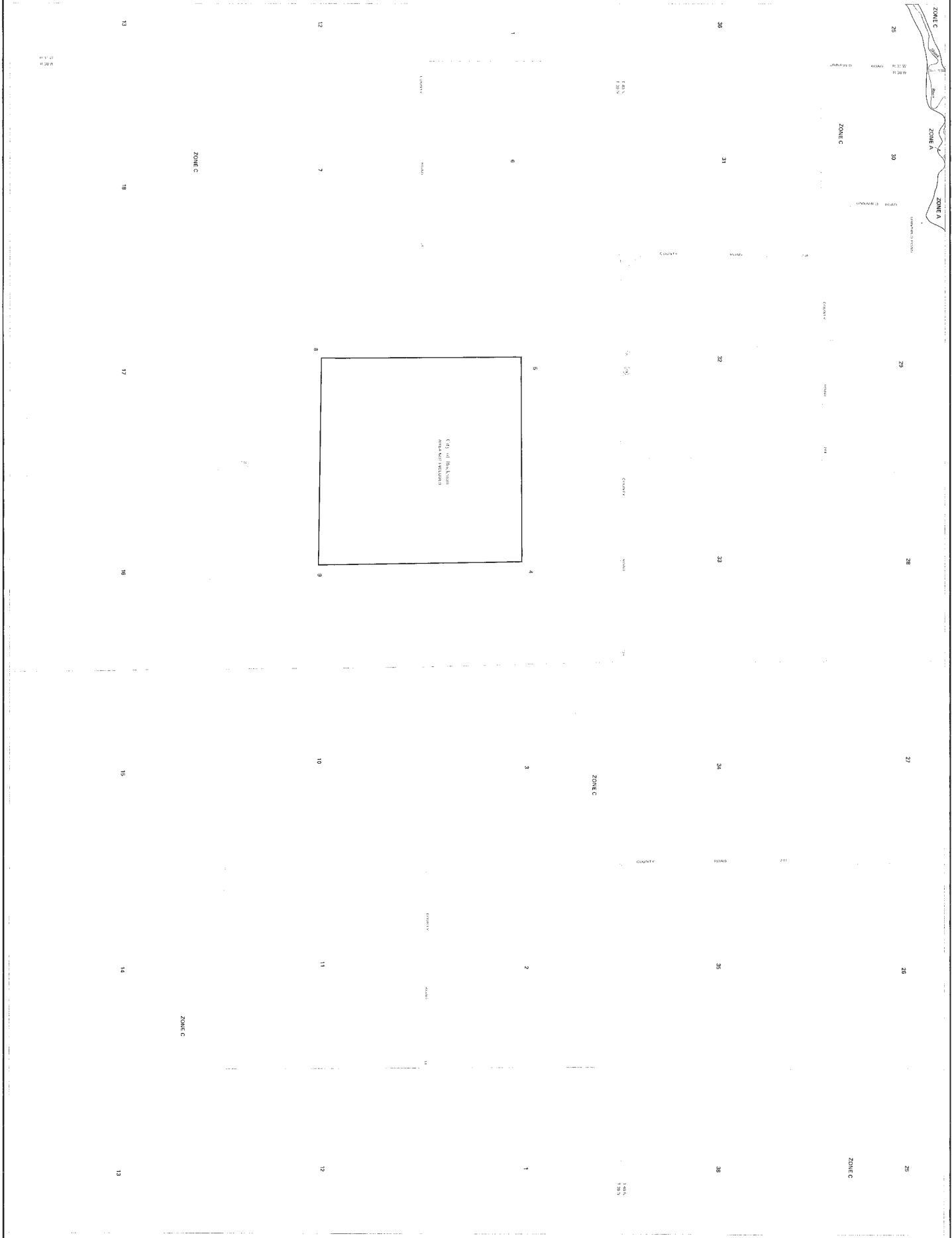
COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 350 OF 450
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
 270617 0350 B

EFFECTIVE DATE:
 JUNE 15, 1981

federal emergency management agency
federal insurance administration



KEY TO MAP

100 Year Flood Boundary
 Zone A
 Zone B
 Zone C

100 Year Flood Boundary
 Zone A
 Zone B
 Zone C

100 Year Flood Boundary
 Zone A
 Zone B
 Zone C

100 Year Flood Boundary
 Zone A
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100 Year Flood Boundary
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100 Year Flood Boundary
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100 Year Flood Boundary
 Zone A
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 Zone C

NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)
 PANEL 315 OF 450

COMMUNITY PANEL NUMBER 270817 0315 8
 EFFECTIVE DATE: JUNE 15, 1981

Metrol Interservice Management Agency
 Metrol Insurance Administration

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood.

ZONE B
 Area of Special Flood Hazard (SFHA) subject to a 500-year flood.

ZONE C
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood, but not in a flood plain.

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood.

ZONE B
 Area of Special Flood Hazard (SFHA) subject to a 500-year flood.

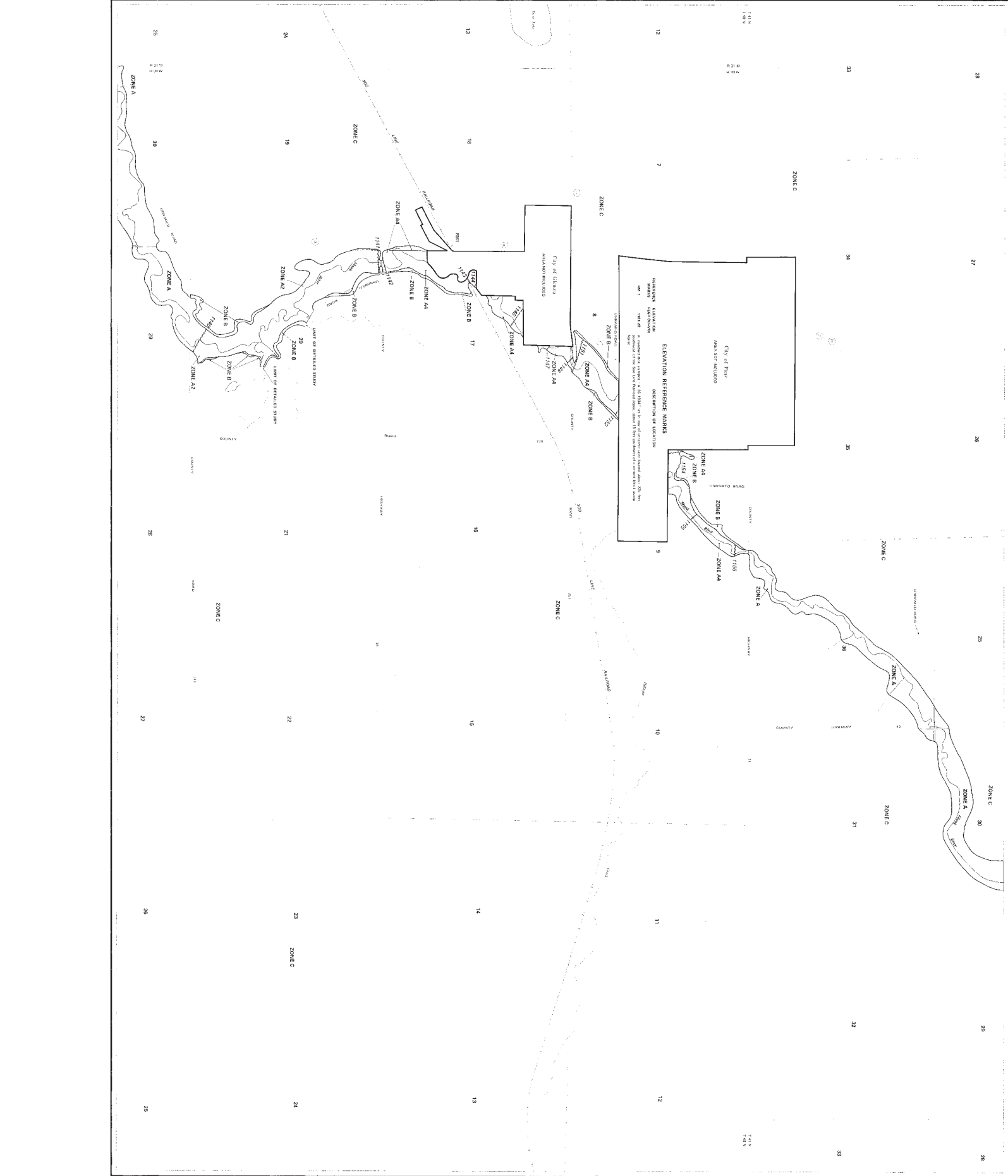
ZONE C
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood, but not in a flood plain.

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood.

ZONE B
 Area of Special Flood Hazard (SFHA) subject to a 500-year flood.

ZONE C
 Area of Special Flood Hazard (SFHA) subject to a 100-year flood, but not in a flood plain.



KEY TO ZONES

ZONE A	Special Flood Hazard Area with a 1% Annual Chance Flood
ZONE B	Special Flood Hazard Area with a 1% Annual Chance Flood
ZONE C	Area of Minimal Flood Hazard

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Areas of Special Flood Hazard which are subject to a 1% Annual Chance Flood (1 in 100 years recurrence period) during average conditions of the flood. Such areas are also subject to cumulative damage to property resulting from repeated flooding losses because of frequency, recurrence and duration (4 to 6 months) of the flooding process.

ZONE B
 Areas of Special Flood Hazard which are subject to a 1% Annual Chance Flood (1 in 100 years recurrence period) during average conditions of the flood. Such areas are also subject to cumulative damage to property resulting from repeated flooding losses because of frequency, recurrence and duration (4 to 6 months) of the flooding process.

ZONE C
 Areas of Minimal Flood Hazard which are not subject to a 1% Annual Chance Flood (1 in 100 years recurrence period) during average conditions of the flood. Such areas are also subject to cumulative damage to property resulting from repeated flooding losses because of frequency, recurrence and duration (4 to 6 months) of the flooding process.

LEGEND

BOUNDARIES

WATER

ROADS

RAILROADS

UTILITIES

NOTES

1. This map is for informational purposes only. It does not constitute an offer of insurance or a contract. For more information, contact your insurance agent or the National Flood Insurance Program.

2. Flood insurance rates are subject to change without notice.

3. Flood insurance rates are subject to change without notice.

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NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

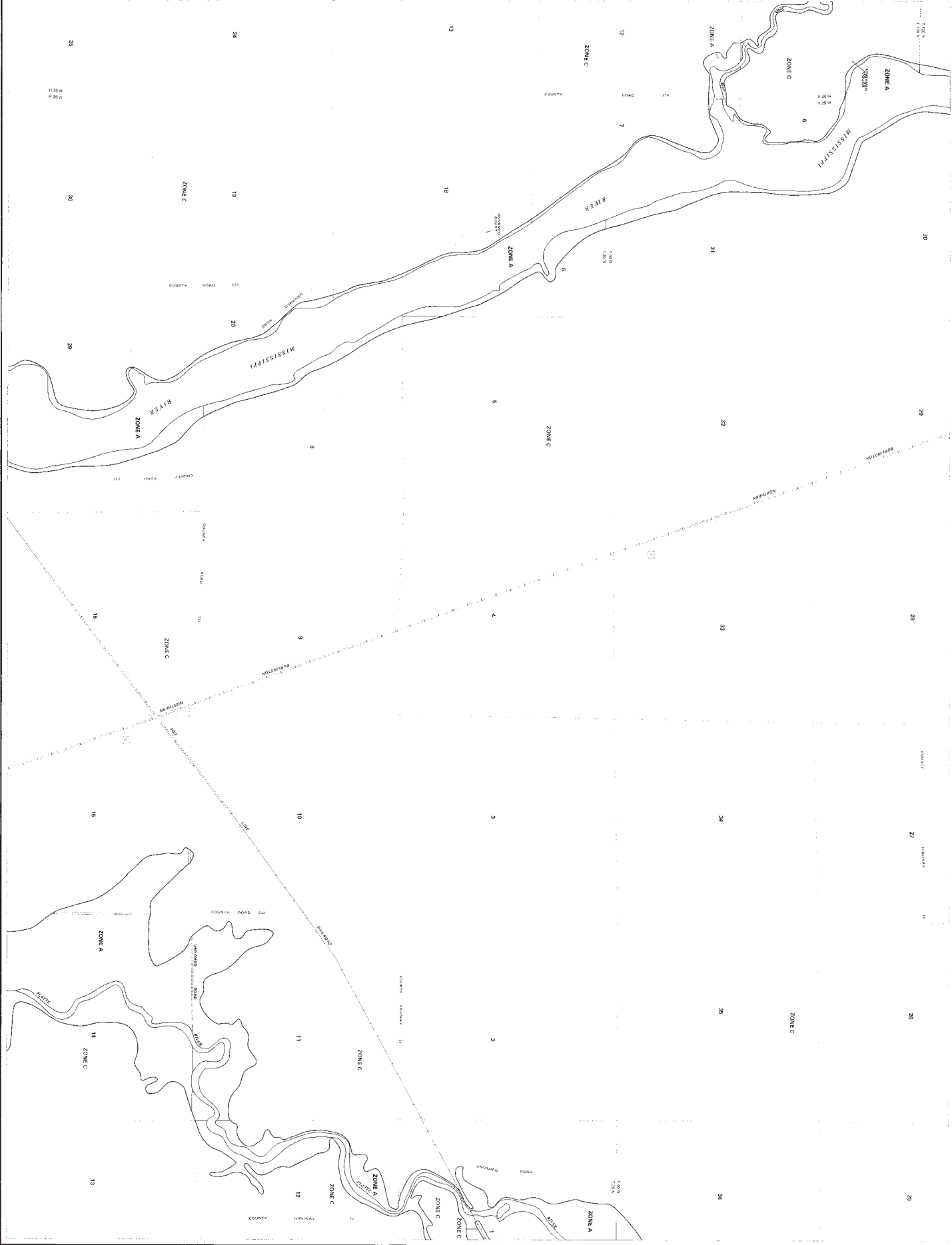
PANEL 305 OF 450

COMMUNITY PANEL NUMBER 270617 0305 B

EFFECTIVE DATE: JUNE 15, 1981

Federal Emergency Management Agency

Federal Insurance Administration



KEY TO MAP

ZONE A
Special Flood Hazard Area (SFHA) - High Risk

ZONE B
Special Flood Hazard Area (SFHA) - Moderate Risk

ZONE C
Special Flood Hazard Area (SFHA) - Minimal Risk

UNDESIGNATED AREAS
Areas not included in the SFHA

WATER BODIES
Lakes, rivers, streams, etc.

ROADS
County Road, State Road, etc.

BOUNDARIES
County, Township, etc.

LEGEND

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
Areas in Zone A are subject to the highest risk of flooding. Floods in these areas are likely to be the most severe and to cause the most damage. Flood insurance rates in Zone A are the highest.

ZONE B
Areas in Zone B are subject to a moderate risk of flooding. Floods in these areas are likely to be less severe and to cause less damage. Flood insurance rates in Zone B are moderate.

ZONE C
Areas in Zone C are subject to a minimal risk of flooding. Floods in these areas are likely to be the least severe and to cause the least damage. Flood insurance rates in Zone C are the lowest.

UNDESIGNATED AREAS
Areas not included in the SFHA are subject to a risk of flooding that is not covered by the map. Flood insurance rates in these areas are determined by the insurance carrier.

WATER BODIES
Lakes, rivers, streams, etc. are shown on the map. Flood insurance rates in these areas are determined by the insurance carrier.

ROADS
County Road, State Road, etc. are shown on the map. Flood insurance rates in these areas are determined by the insurance carrier.

BOUNDARIES
County, Township, etc. boundaries are shown on the map. Flood insurance rates in these areas are determined by the insurance carrier.

SCALE
1/4 inch = 1/2 mile

TITLE BLOCK

FIRM FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

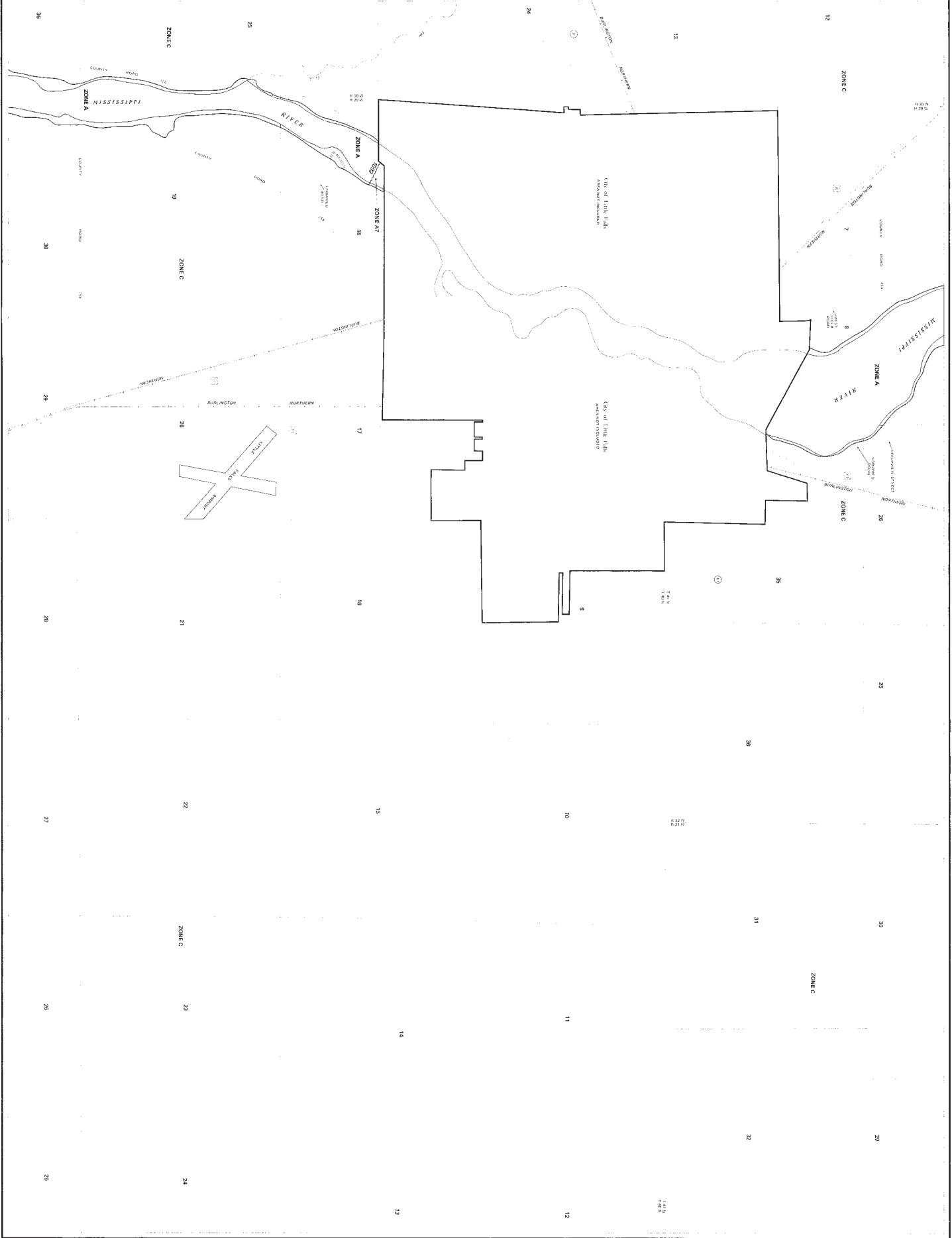
PANEL 280 OF 450

COMMUNITY PANEL NUMBER: 271801 0230 8

EFFECTIVE DATE: JUNE 15, 1981

**Federal Emergency Management Agency
Federal Insurance Administration**

NOTE: THIS MAP IS THE PROPERTY OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY. IT IS LOANED TO YOU FOR YOUR INFORMATION AND USE ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY.



KEY TO MAP



100 Year Flood Boundary
 500 Year Flood Boundary
 Zone A
 Zone B
 Zone C

Panel 280 of 450
 COMMUNITY PANEL NUMBER
 270857 0288 8
 EFFECTIVE DATE
 JAN 15, 1981

FIRM
FLOOD INSURANCE RATE MAP

NATIONAL FLOOD INSURANCE PROGRAM

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

Panel 280 of 450

800 555 5111

AMERICAN OVERSEAS INSURANCE COMPANY

1. FLOOD INSURANCE RATE MAP EFFECTIVE: JUNE 15, 1981

2. FLOOD INSURANCE RATE MAP RECORDS

3. INITIAL DRAWING DATE: JUNE 15, 1981

4. DATE OF REVISION: JUNE 15, 1981

5. DATE OF REVISION: JUNE 15, 1981

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99. DATE OF REVISION: JUNE 15, 1981

100. DATE OF REVISION: JUNE 15, 1981



ELEVATION REFERENCE MARKS
 ELEVATION REFERENCE MARKS
 ELEVATION REFERENCE MARKS
 ELEVATION REFERENCE MARKS

KEY TO MAP

ZONE B
 ZONE C
 ZONE A
 ZONE PAD

FIRM
 NATIONAL FLOOD INSURANCE PROGRAM
 COMMUNITY PANEL NUMBER
 270817 0270 B
 EFFECTIVE DATE
 JUNE 15, 1981

EXPLANATION OF ZONE DESIGNATIONS

ZONE A: Areas in which the Special Flood Hazard Insurance Program is available. The Special Flood Hazard Insurance Program is available in areas designated as Zone A. The Special Flood Hazard Insurance Program is available in areas designated as Zone A.

ZONE B: Areas in which the Special Flood Hazard Insurance Program is available. The Special Flood Hazard Insurance Program is available in areas designated as Zone B. The Special Flood Hazard Insurance Program is available in areas designated as Zone B.

ZONE C: Areas in which the Special Flood Hazard Insurance Program is available. The Special Flood Hazard Insurance Program is available in areas designated as Zone C. The Special Flood Hazard Insurance Program is available in areas designated as Zone C.

ZONE PAD: Areas in which the Special Flood Hazard Insurance Program is available. The Special Flood Hazard Insurance Program is available in areas designated as Zone PAD. The Special Flood Hazard Insurance Program is available in areas designated as Zone PAD.

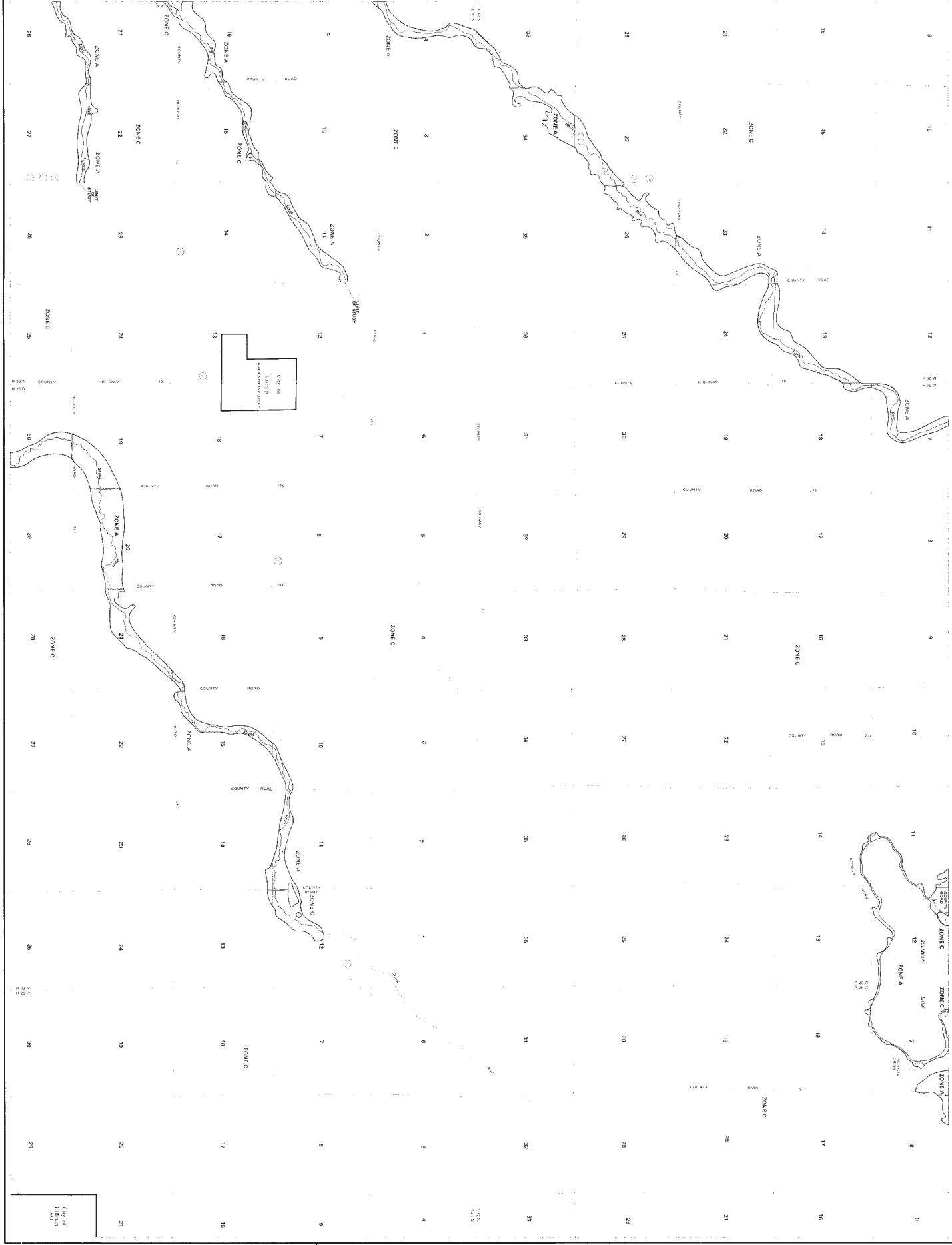
NATIONAL FLOOD INSURANCE PROGRAM

FIRM
 NATIONAL FLOOD INSURANCE PROGRAM
 COMMUNITY PANEL NUMBER
 270817 0270 B
 EFFECTIVE DATE
 JUNE 15, 1981

KEY TO MAP

ZONE B
 ZONE C
 ZONE A
 ZONE PAD

FIRM
 NATIONAL FLOOD INSURANCE PROGRAM
 COMMUNITY PANEL NUMBER
 270817 0270 B
 EFFECTIVE DATE
 JUNE 15, 1981



KEY TO MAP

ZONE A
Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard

ZONE B
Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard

ZONE C
Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard

EXPLANATION OF ZONE DESIGNATIONS

••• Referenced to the National Flood Insurance Program (NFIP) Flood Insurance Study (FIS) of 1981.

••• Referenced to the National Flood Insurance Program (NFIP) Flood Insurance Study (FIS) of 1981.

••• Referenced to the National Flood Insurance Program (NFIP) Flood Insurance Study (FIS) of 1981.

NOTES TO USER

This map is for informational purposes only. It is not intended to be used as a basis for insurance coverage. For more information, contact your insurance agent or the Federal Emergency Management Agency (FEMA).

INTERNAL REPERCUSSIONS

FLOOD INSURANCE RATE MAP EFFECTIVE DATE: 1981

FLOOD INSURANCE RATE MAP REVISION DATE: 1981

FIRM

NATIONAL FLOOD INSURANCE PROGRAM

COMMUNITY PANEL NUMBER
270817 0225 B

EFFECTIVE DATE:
JUNE 15, 1981

MINNESOTA (UNINCORPORATED AREAS)

PANEL 225 OF 450

CITY OF MORRIS

MINNESOTA (UNINCORPORATED AREAS)

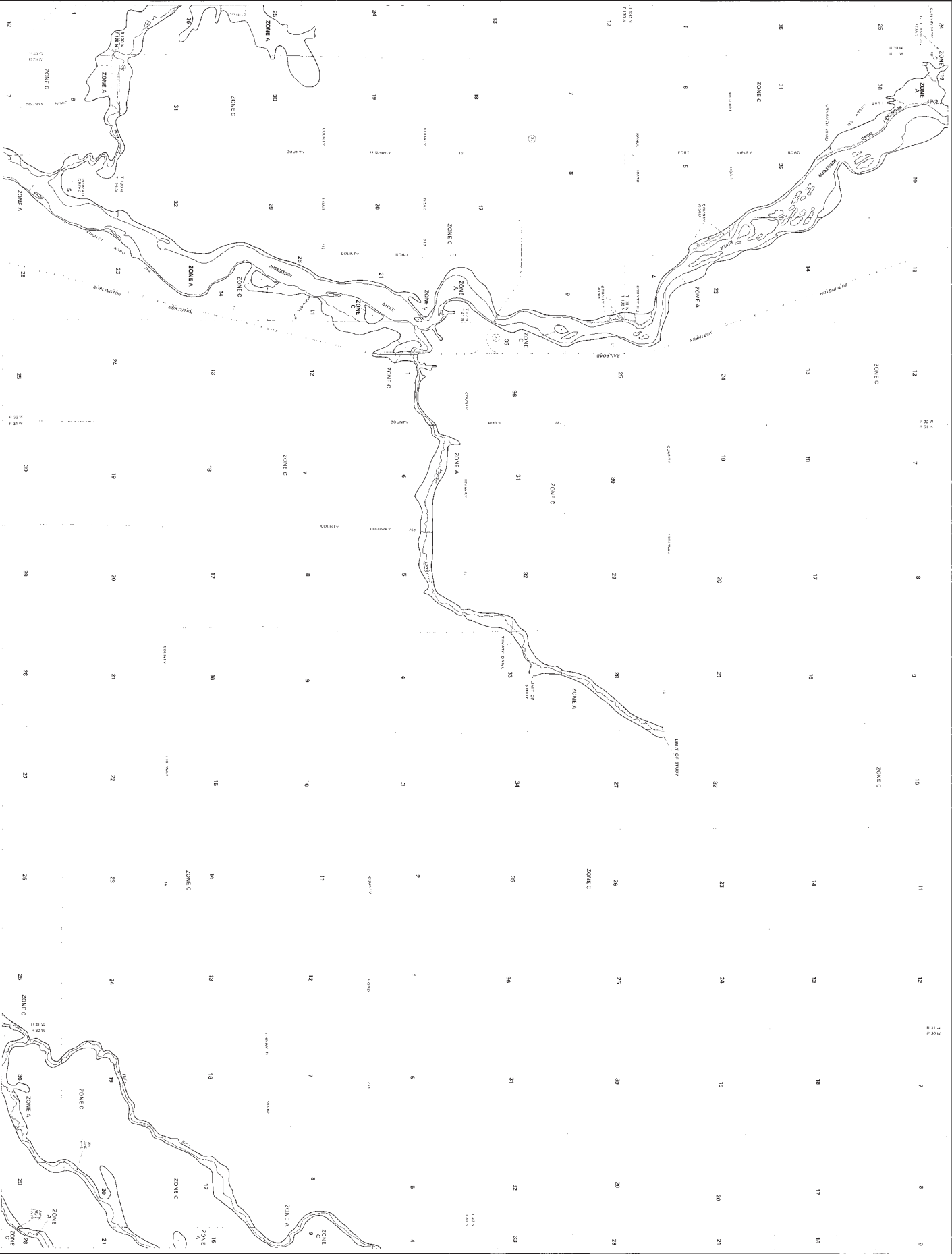
CITY OF MORRIS

MINNESOTA (UNINCORPORATED AREAS)

CITY OF MORRIS

MINNESOTA (UNINCORPORATED AREAS)

CITY OF MORRIS



MINNESOTA FIRM FLOOD INSURANCE RATE MAP

COMMUNITY PANEL NUMBER 27/0817/02/08 B

EFFECTIVE DATE JUNE 15, 1981

PANEL 200 OF 450

FIRM FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

COMMUNITY PANEL NUMBER 27/0817/02/08 B

EFFECTIVE DATE JUNE 15, 1981

PANEL 200 OF 450

EXPLANATION OF ZONE DESIGNATIONS

ZONE A - Areas of Special Flood Hazard (SFHA) designated as Zone A are those areas in which the base flood elevation is 1.5 feet above the ground level. These areas are subject to the highest risk of flooding and are therefore designated as Zone A.

ZONE B - Areas of Special Flood Hazard (SFHA) designated as Zone B are those areas in which the base flood elevation is 1.0 foot above the ground level. These areas are subject to a moderate risk of flooding and are therefore designated as Zone B.

ZONE C - Areas of Special Flood Hazard (SFHA) designated as Zone C are those areas in which the base flood elevation is 0.5 foot above the ground level. These areas are subject to a low risk of flooding and are therefore designated as Zone C.

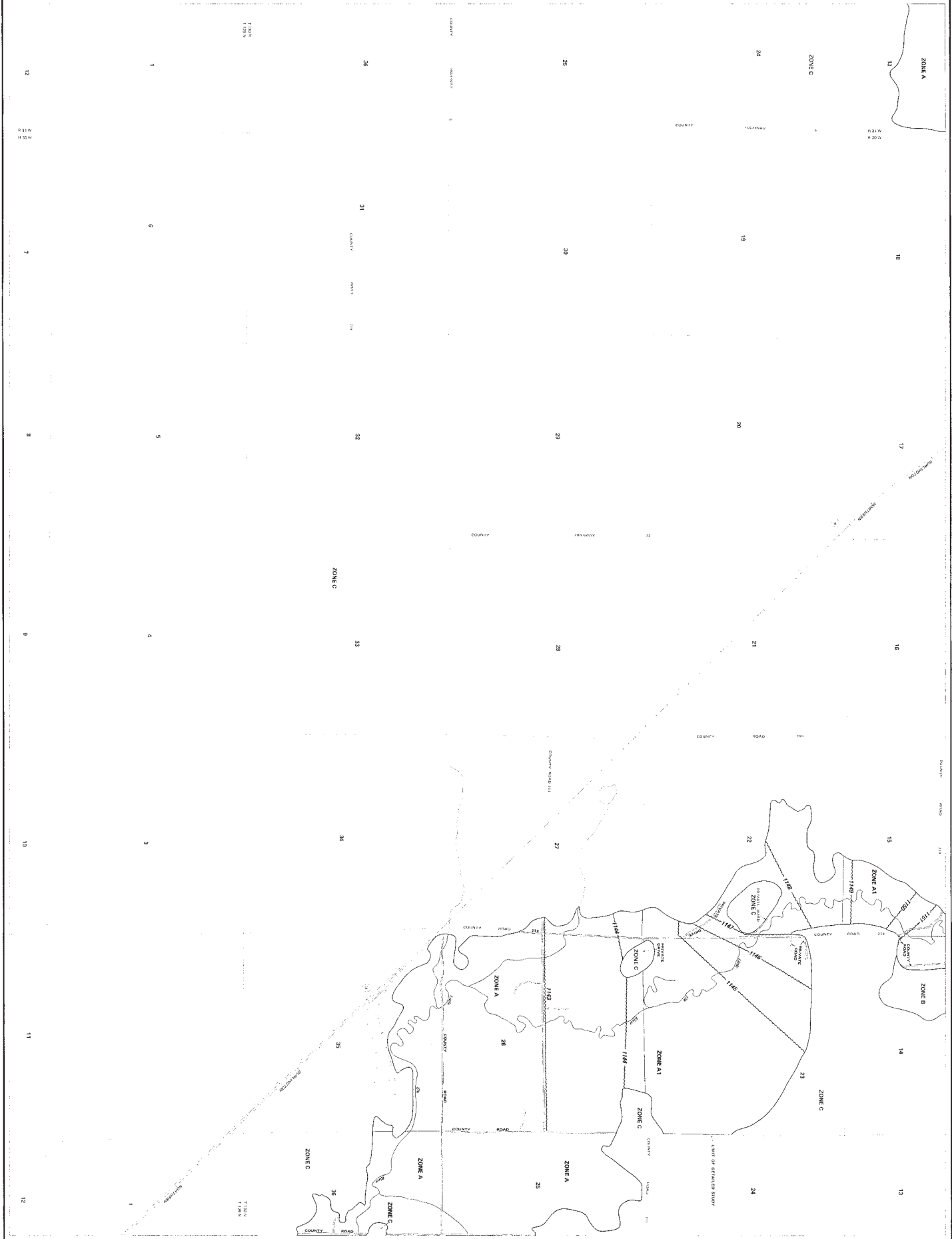
GENERAL NOTES

1. This map is for informational purposes only and does not constitute a contract. The actual insurance policy and its terms and conditions govern.

2. The base flood elevation is the elevation of the water surface of a river, stream, or other body of water during a flood of a 100-year return period.

3. The ground level is the elevation of the ground surface at the time of the flood.

4. The flood insurance rate is based on the zone designation and the amount of insurance coverage.



100 Year Flood Boundary
Zone A, Zone A1, Zone B, Zone C
1:12,500 Resolution
1995 Year of Flood Boundary
Base Flood Elevation (BFE) **
Base Flood Depth (BFD) **
Base Flood Velocity (BFV) **
Base Flood Direction (BFDIR) **
Base Flood Direction (BFDIR) **

100 Year Flood Boundary
Zone A, Zone A1, Zone B, Zone C
1:12,500 Resolution
1995 Year of Flood Boundary
Base Flood Elevation (BFE) **
Base Flood Depth (BFD) **
Base Flood Velocity (BFV) **
Base Flood Direction (BFDIR) **
Base Flood Direction (BFDIR) **

EXPLANATION

A Zone A: Special Flood Hazard Area subject to inundation by 100-year flood with a base flood elevation (BFE) of 100 feet or less.

A1 Zone A1: Special Flood Hazard Area subject to inundation by 100-year flood with a base flood elevation (BFE) of 100 feet or less and a base flood depth (BFD) of 1 foot or less.

B Zone B: Special Flood Hazard Area subject to inundation by 100-year flood with a base flood elevation (BFE) of 100 feet or less and a base flood depth (BFD) of 1 foot or less.

C Zone C: Special Flood Hazard Area subject to inundation by 100-year flood with a base flood elevation (BFE) of 100 feet or less.

100 Year Flood Boundary
Zone A, Zone A1, Zone B, Zone C
1:12,500 Resolution
1995 Year of Flood Boundary
Base Flood Elevation (BFE) **
Base Flood Depth (BFD) **
Base Flood Velocity (BFV) **
Base Flood Direction (BFDIR) **
Base Flood Direction (BFDIR) **

FIRM
FLOOD INSURANCE RATE MAP

NATIONAL FLOOD INSURANCE PROGRAM

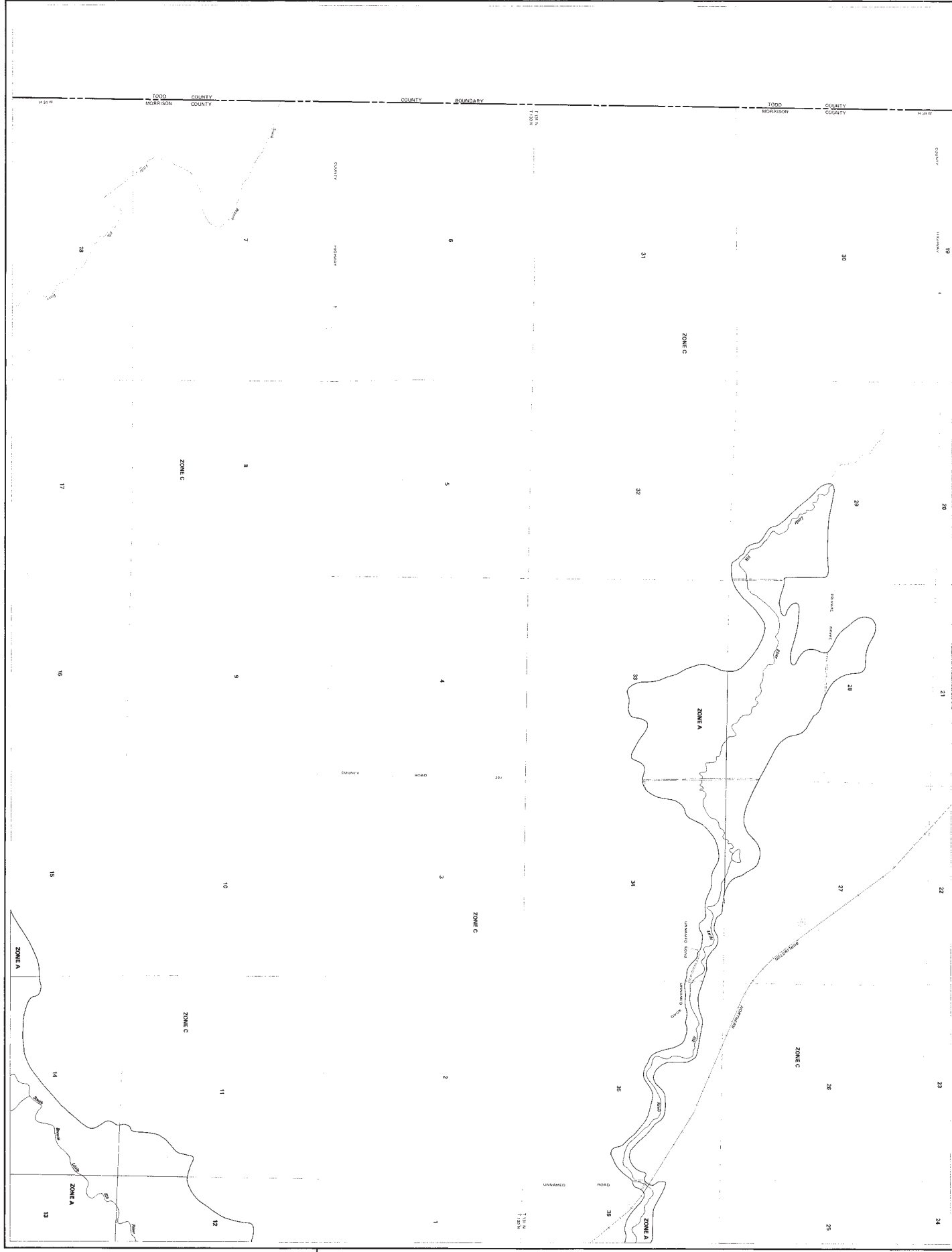
COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 170 OF 450

COMMUNITY PANEL NUMBER 278617 0170 8

EFFECTIVE DATE: JUNE 15, 1981

Federal Emergency Management Agency
National Flood Insurance Administration



NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)
 PANEL 155 OF 450

COMMUNITY PANEL NUMBER: 270817 0155 8
 EFFECTIVE DATE: JUNE 15, 1981

Federal Emergency Management Agency
 Federal Insurance Administration

NOTES:

1. This map is for flood insurance purposes only. It does not show actual flood depths or velocities. It is not intended to be used for engineering purposes.

2. Flood insurance is available on the community program in Minnesota. For more information, contact the Federal Emergency Management Agency, 1200 K Street, N.W., Washington, D.C. 20548.

3. Flood insurance is available on the community program in Minnesota. For more information, contact the Federal Emergency Management Agency, 1200 K Street, N.W., Washington, D.C. 20548.

4. Flood insurance is available on the community program in Minnesota. For more information, contact the Federal Emergency Management Agency, 1200 K Street, N.W., Washington, D.C. 20548.

5. Flood insurance is available on the community program in Minnesota. For more information, contact the Federal Emergency Management Agency, 1200 K Street, N.W., Washington, D.C. 20548.

EXPLANATION OF ZONE DESIGNATIONS

ZONE A
 Areas of special flood hazard areas, including areas of flood depths of 1 to 3 feet above the base flood elevation.

ZONE B
 Areas of special flood hazard areas, including areas of flood depths of 3 to 6 feet above the base flood elevation.

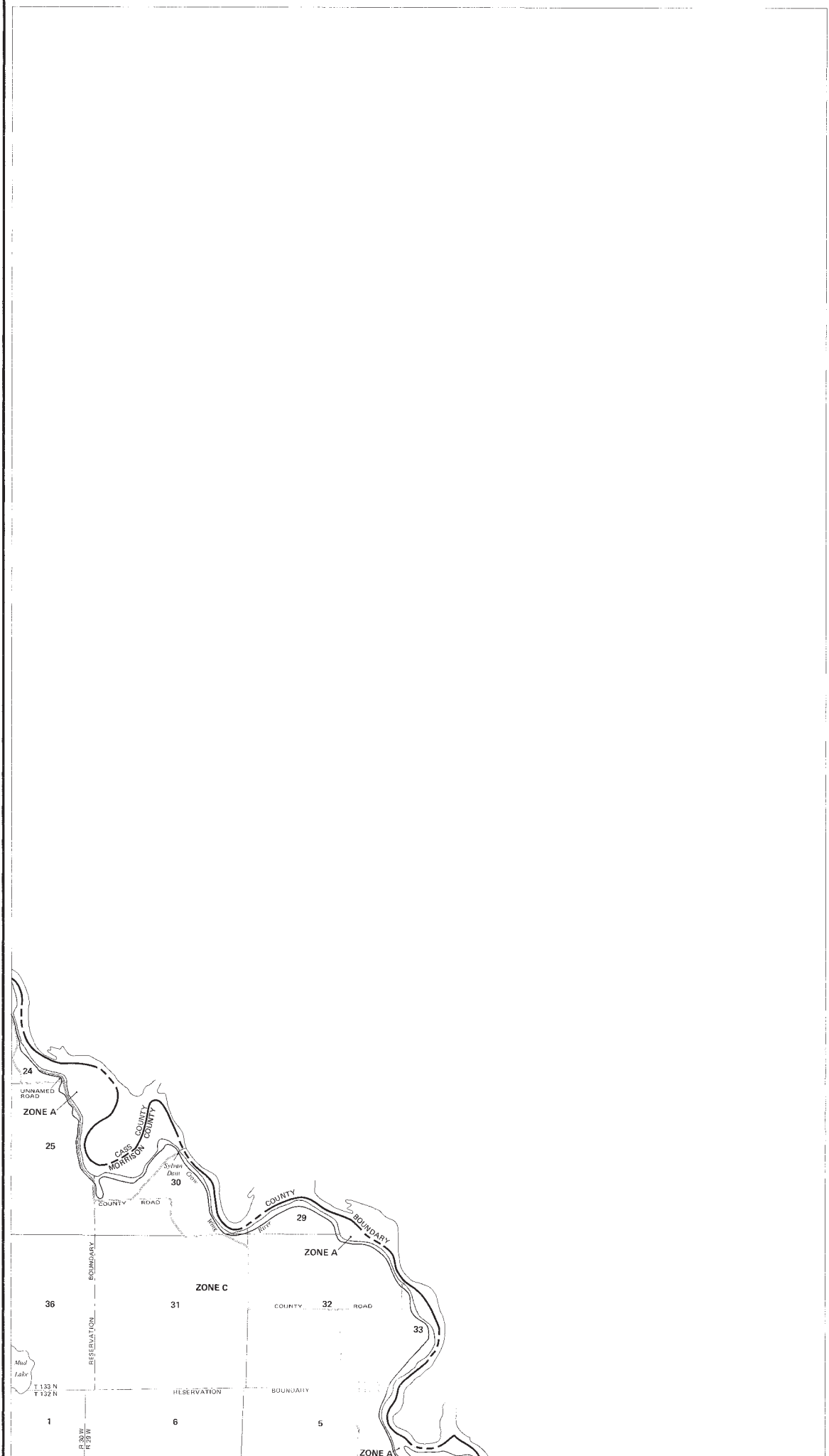
ZONE C
 Areas of special flood hazard areas, including areas of flood depths of 6 to 9 feet above the base flood elevation.

UNDESIGNED CHANNEL
 Areas of special flood hazard areas, including areas of flood depths of 1 to 3 feet above the base flood elevation.

ROAD
 Areas of special flood hazard areas, including areas of flood depths of 1 to 3 feet above the base flood elevation.

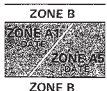
TOWN
 Areas of special flood hazard areas, including areas of flood depths of 1 to 3 feet above the base flood elevation.

BOUNDARY
 Areas of special flood hazard areas, including areas of flood depths of 1 to 3 feet above the base flood elevation.



KEY TO MAP

- 500-Year Flood Boundary
- 100-Year Flood Boundary
- Zone Designations* With Date of Identification e.g., 12/2/74
- 100-Year Flood Boundary
- 500-Year Flood Boundary
- Base Flood Elevation Line With Elevation In Feet**
- Base Flood Elevation In Feet Where Uniform Within Zone**
- Elevation Reference Mark
- River Mile



**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile, or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
 This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
 For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
 APRIL 21, 1978

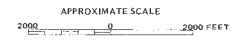
FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
 JUNE 15, 1981

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 50 OF 450
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER 270617 0050 B

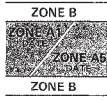
EFFECTIVE DATE: JUNE 15, 1981



federal emergency management agency
 federal insurance administration

KEY TO MAP

- 500-Year Flood Boundary
- 100-Year Flood Boundary
- Zone Designations* With Date of Identification
e.g., 12/2/74
- 100-Year Flood Boundary
- 500-Year Flood Boundary
- Base Flood Elevation Line With Elevation In Feet**
- Base Flood Elevation In Feet Where Uniform Within Zone**
- Elevation Reference Mark
- River Mile



(E.L. 987)

RM7 X

•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

- | ZONE | EXPLANATION |
|--------|--|
| A | Areas of 100-year flood; base flood elevations and flood hazard factors not determined. |
| A0 | Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of foundation are shown, but no flood hazard factors are determined. |
| AH | Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined. |
| A1-A30 | Areas of 100-year flood; base flood elevations and flood hazard factors determined. |
| A99 | Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined. |
| B | Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading) |
| C | Areas of minimal flooding. (No shading) |
| D | Areas of undetermined, but possible, flood hazards. |
| V | Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined. |
| V1-V30 | Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined. |

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures. This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas. For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
AUGUST 16, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
JUNE 11, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
JULY 16, 1980

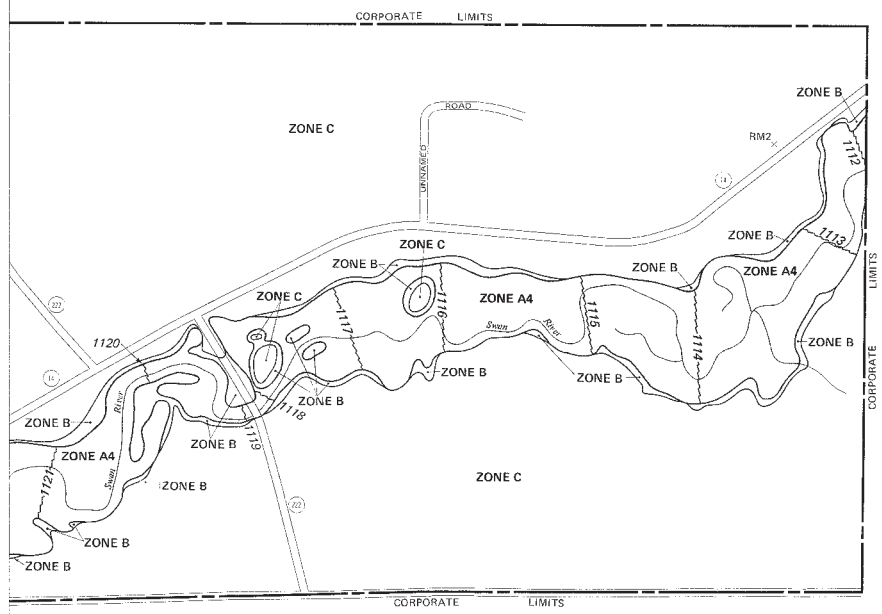
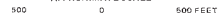
FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the CONVERSION TO REGULAR PROGRAM date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.



APPROXIMATE SCALE



ELEVATION REFERENCE MARKS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM 2	1121.59	Nat. 1.0" flat above ground in a power pole located approximately 200 feet north of the R. Mattson residence on west side of County Highway 14 about 650 feet southwest along County Highway 14 from the eastern corporate limits.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
SOBIESKI,
MINNESOTA
MORRISON COUNTY

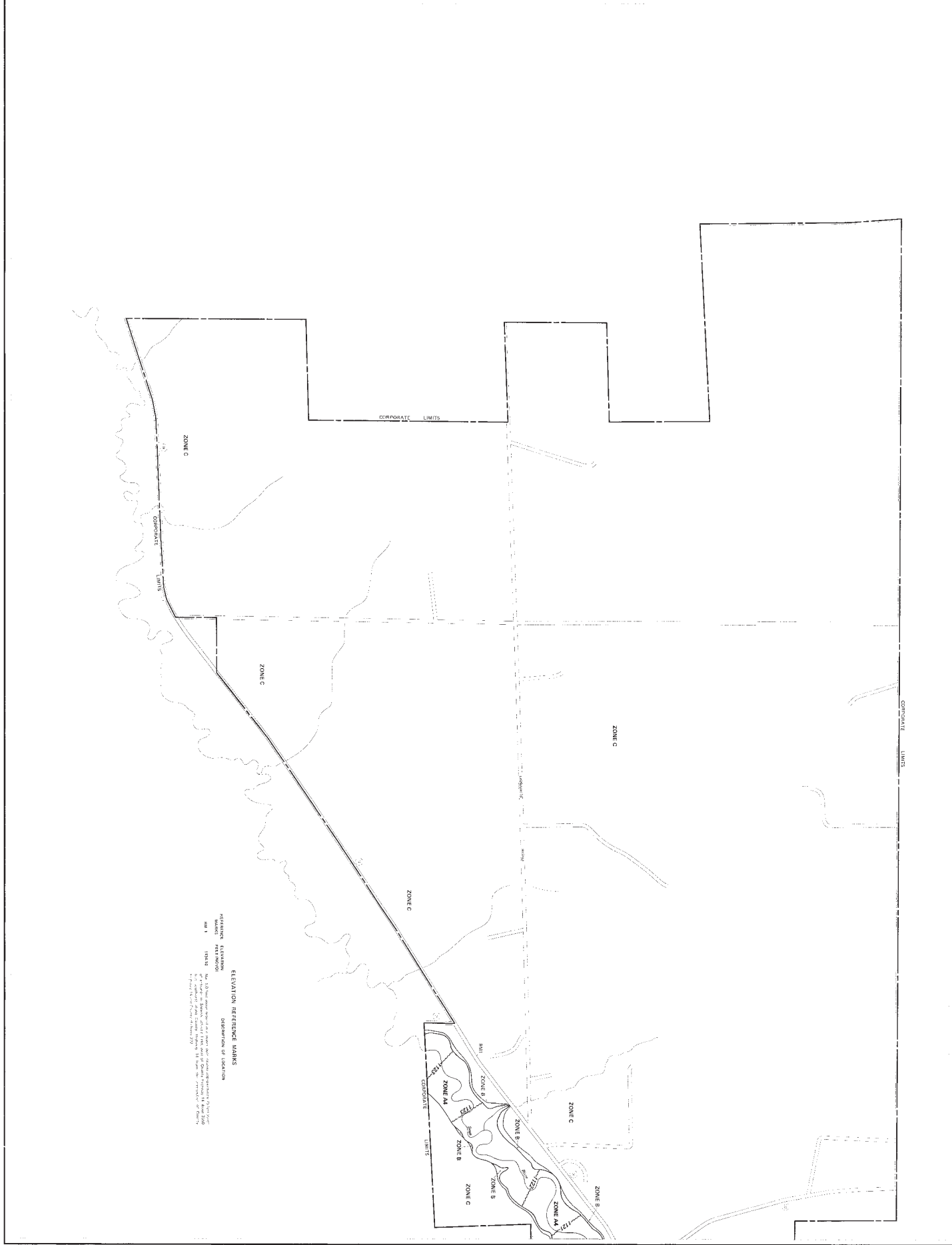
PANEL 2 OF 2

COMMUNITY-PANEL NUMBER
270304 0002 B

EFFECTIVE DATE:
JULY 16, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION



ELEVATION REFERENCE MARKS
 REFERENCE ELEVATION
 MARKS
 HEIGHT
 DESCRIPTION OF LOCATION

1. 1000
 2. 1000
 3. 1000
 4. 1000
 5. 1000
 6. 1000
 7. 1000
 8. 1000
 9. 1000
 10. 1000

KEY TO MAP

Zone A
 Zone B
 Zone C
 Zone M

Corporate Limits
 Elevation Reference Marks

Scale
 1" = 100'

EXPLANATION OF ZONE DISPOSITIONS

1. Zone A: Areas of special hazard, including residential areas with basements, and areas of high density residential development.

2. Zone B: Areas of moderate hazard, including residential areas with basements, and areas of moderate density residential development.

3. Zone C: Areas of low hazard, including residential areas with basements, and areas of low density residential development.

4. Zone M: Areas of moderate hazard, including residential areas with basements, and areas of moderate density residential development.

INITIAL LETTERS

1. A
 2. B
 3. C
 4. M

LEGEND

1. Zone A
 2. Zone B
 3. Zone C
 4. Zone M

APPROPRIATE SCALE

1" = 100'

DATE

July 16, 1980

FIRM
NATIONAL FIRE INSURANCE PROGRAM

CITY OF
SOBIESKI
MINNESOTA
MORRISON COUNTY

PANEL 1 OF 2

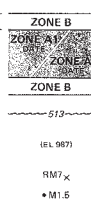
COMMUNITY PANEL NUMBER
270284 0001 B

EFFECTIVE DATE
JULY 16, 1980

DEPARTMENT OF FINANCE
AND COMMUNITY DEVELOPMENT
100 SOUTH WASHINGTON, MINNEAPOLIS, MINN.

KEY TO MAP

- 500-Year Flood Boundary
- 100-Year Flood Boundary
- Zone Designations With Date of Identification (E.L. 10/2/74)
- 100-Year Flood Boundary
- 500-Year Flood Boundary
- Base Flood Elevation Line With Elevation in Feet**
- Base Flood Elevation in Feet Where Uniform Within Zone**
- Elevation Reference Mark
- River Mile



**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood, or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (Zones A and V) may be protected by flood control structures. This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

INITIAL IDENTIFICATION:
JUNE 7, 1974

FLOOD HAZARD BOUNDARY MAP REVISION:
FEBRUARY 12, 1980

FLOOD INSURANCE RATE MAP EFFECTIVE:
MARCH 28, 1980

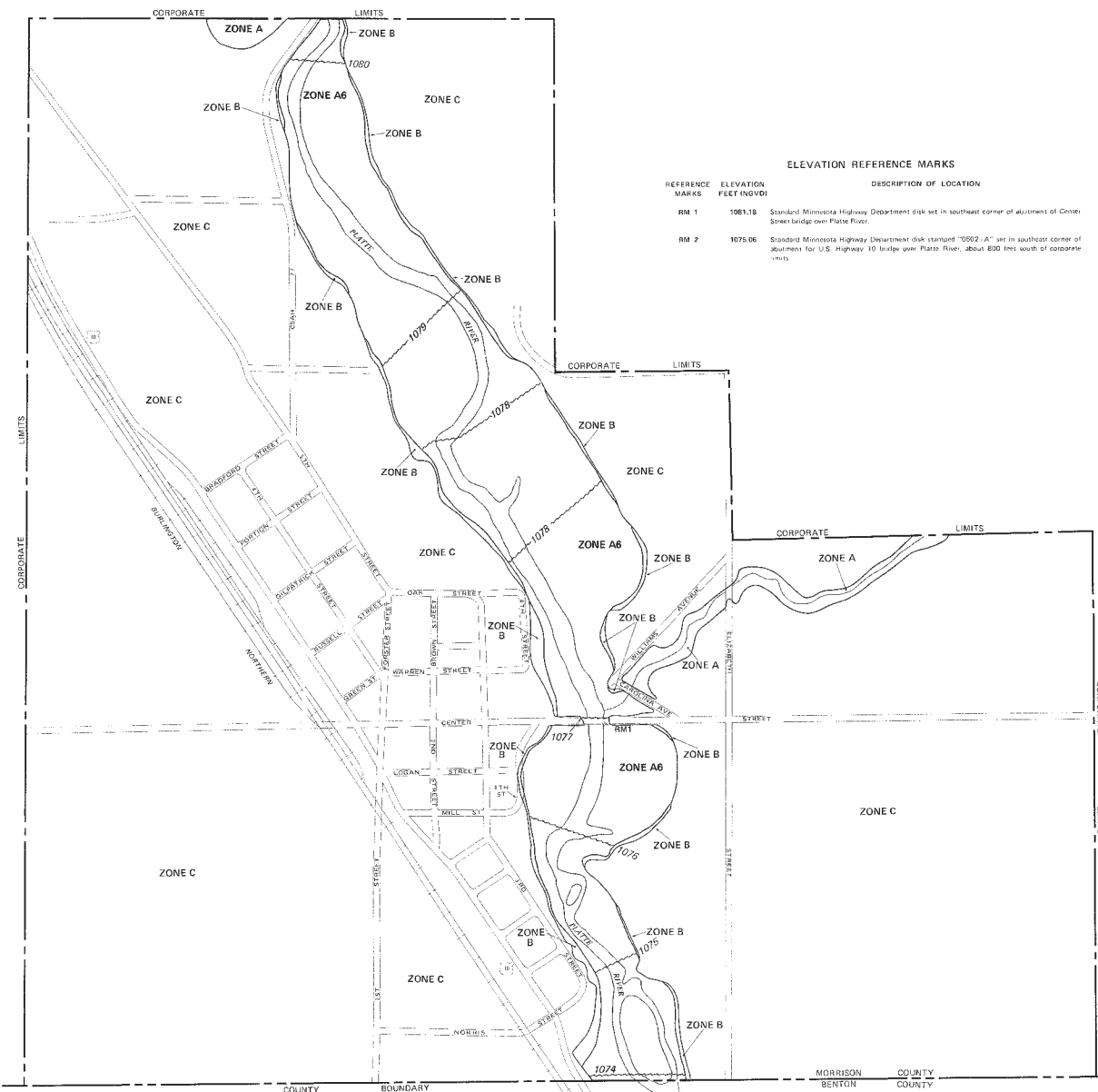
FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the CONVERSION TO REGULAR PROGRAM use shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 678-6635, or (800) 474-8872.



APPROXIMATE SCALE
500 0 500 FEET



ELEVATION REFERENCE MARKS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM 1	1061.18	Standard Minnesota Highway Department disk set in southeast corner of alignment of Conner Street bridge over Platte River.
RM 2	1075.06	Standard Minnesota Highway Department disk stamped "0562-A" set in southeast corner of abutment for U.S. Highway 10 bridge over Platte River, about 800 feet south of corporate limits.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF ROYALTON, MINNESOTA MORRISON COUNTY

(ONLY PANEL PRINTED)

COMMUNITY-PANEL NUMBER 270303 0001 B

EFFECTIVE DATE: MARCH 28, 1980



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT FEDERAL INSURANCE ADMINISTRATION

KEY TO MAP

- 100-Year Flood Boundary ZONE B
- Zone Designation With Date of Identification (e.g., 1/2/77) ZONE B
- 500-Year Flood Boundary ZONE B
- Base Flood Elevation Line With Elevation In Feet** 57.3
- Base Flood Elevation In Feet Where Uniform Within Zone** (E1, 987)
- Elevation Reference Mark RM 1
- River Mile • M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

- | ZONE | EXPLANATION |
|--------|--|
| A | Areas of 100-year flood; base flood elevations and flood hazard factors not determined. |
| A0 | Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet average depths of inundation are shown, but no flood hazard factors are determined. |
| AH | Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined. |
| A1-A30 | Areas of 100-year flood; base flood elevations and flood hazard factors determined. |
| A99 | Areas of 100-year flood to be protected by flood protection systems under construction; base flood elevations and flood hazard factors not determined. |
| B | Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; no areas protected by levees from the base flood. (Medium shading) |
| C | Areas of minimal flooding; (No shading) |
| D | Areas of undetermined, but possible, flood hazards. |
| V | Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined. |
| VI-V30 | Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined. |

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

INITIAL IDENTIFICATION:

JUNE 7, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:

JULY 23, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:

MARCH 2, 1981

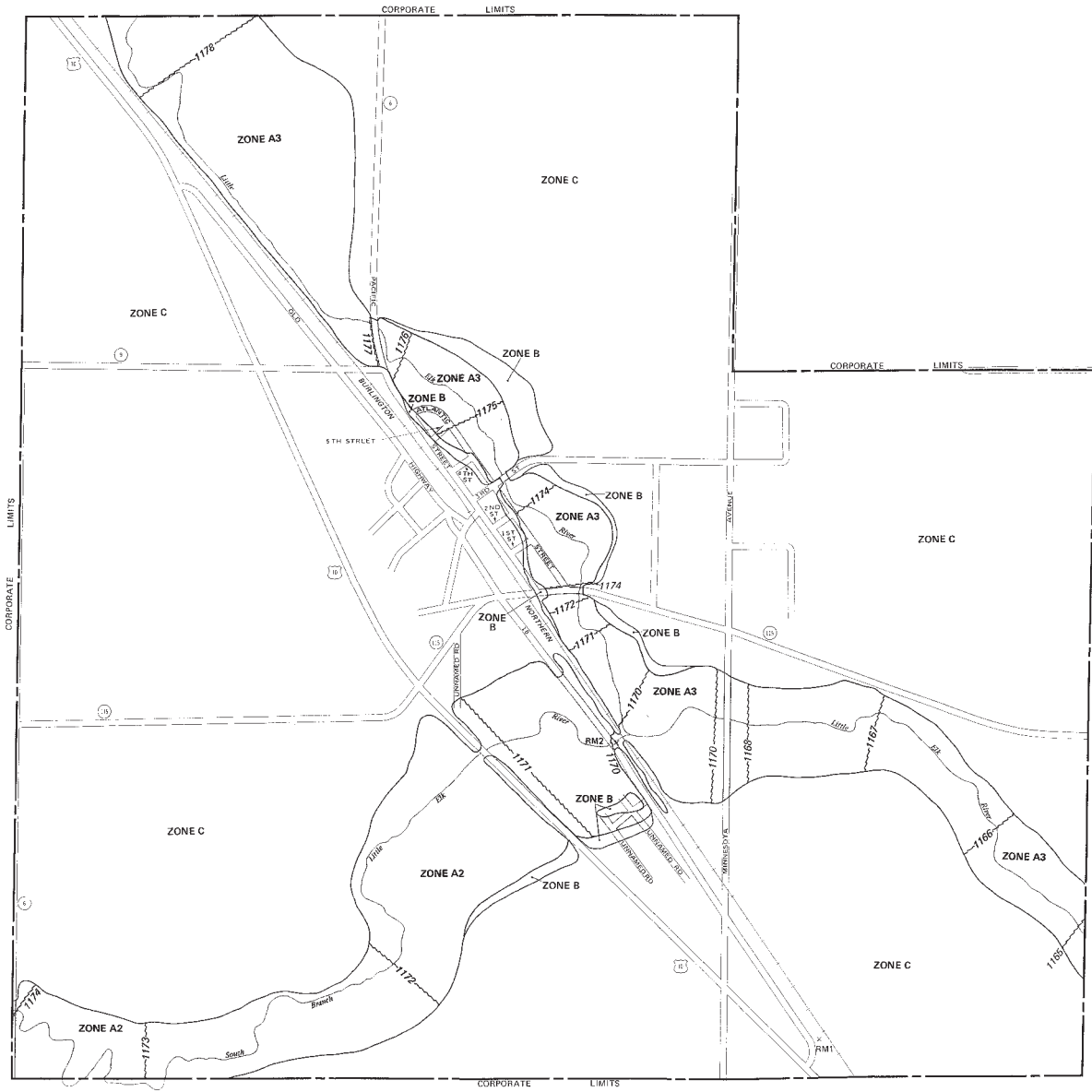
FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 418-6620, or (800) 424-8572.



APPROXIMATE SCALE
500 FEET 1000 FEET



ELEVATION REFERENCE MARKS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM 1	1187.90	A mark set 2 feet below the level of Old Highway 10 located 55 feet east of Old Highway 10, about 45 feet southwest of the southwest rail of the Burlington Northern railroad, about 1500 feet southeast of the intersection of the Burlington Northern railroad and Minnesota Avenue, 84 feet northwest of telegraph pole No. 4, approximately 47 feet southeast of telegraph pole No. 5.
RM 2	1169.75	A mark in the southeast abutment of Old Highway 10 bridge over the South Branch of the Little Elk River, 18.4 feet northeast of the road.

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
RANDALL,
MINNESOTA
MORRISON COUNTY

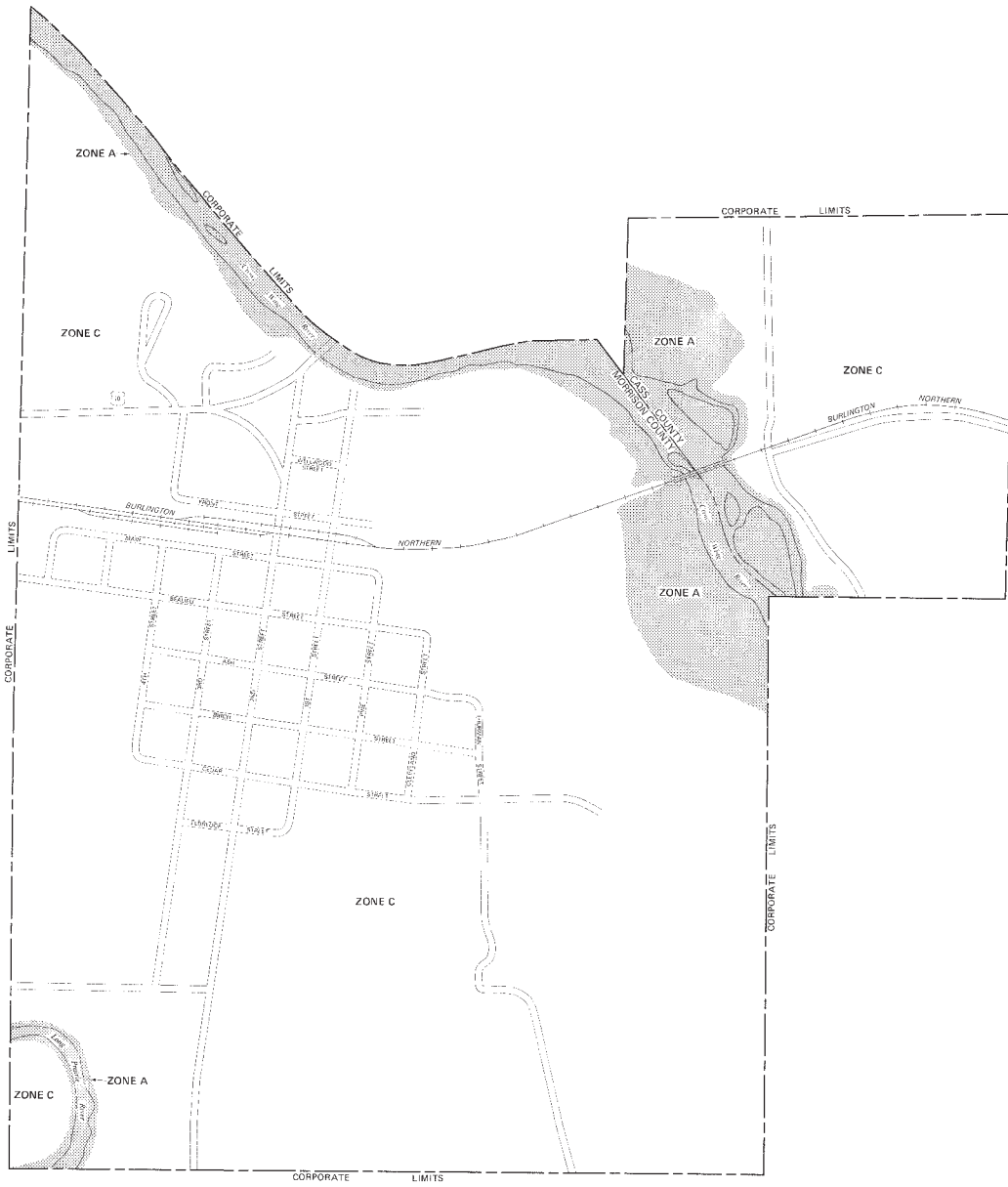
(ONLY PANEL PRINTED)

COMMUNITY-PANEL NUMBER
270302 0001 B

EFFECTIVE DATE:
MARCH 2, 1981



federal emergency management agency
federal insurance administration



KEY TO MAP

Zone Designations*	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #cccccc; margin-bottom: 2px;"></div> <div style="width: 20px; height: 10px; background-color: #cccccc; margin-bottom: 2px;"></div> <div style="width: 20px; height: 10px; background-color: #cccccc; margin-bottom: 2px;"></div> </div>
Road Flood Elevation Line With Elevation in Feet**	—5/3—
Base Flood Elevation in Feet Which Uniform Within Zone*	(EL 987)
Elevation Reference Mark	RM7x
Zone D Boundary	—•••••
River Mile	•M1.5

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Area of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Area of 100-year shallow flooding, where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Area of 100-year shallow flooding, where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1 A30	Area of 100-year flood; base flood elevations and flood hazard factors determined.
A89	Area of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Area between limits of the 100-year flood and 500-year flood, or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile, or areas protected by levees from the base flood. (Medium hazard)
C	Area of minimal flooding. (No shading)
D	Area of undetermined, but possible, flood hazards.
V	Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1 V30	Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (Zones A and V) may be protected by flood control structures.
 This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

INITIAL IDENTIFICATION:

AUGUST 2, 1974
 FLOOD HAZARD BOUNDARY MAP REVISIONS:
 DECEMBER 10, 1975
 SEPTEMBER 6, 1978
 FLOOD INSURANCE RATE MAP EFFECTIVE:
 JUNE 19, 1989
 FLOOD INSURANCE RATE MAP REVISIONS:

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.



APPROXIMATE SCALE



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
 FLOOD INSURANCE RATE MAP

CITY OF
 MOTLEY,
 MINNESOTA
 MORRISON AND CASS
 COUNTIES

(ONLY PANEL PRINTED)

COMMUNITY-PANEL NUMBER
 270300 0001 C

EFFECTIVE DATE:
 JUNE 19, 1989



Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 2 feet (usually areas of ponding); base flood elevations determined.
- ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined for areas of alluvial fan flooding; velocities also determined.
- ZONE A99** 6 feet protected from 500-year flood by Federal flood protection system under construction; no base elevations determined.
- ZONE V** Coastal flood with velocity hazard (sea action); no base flood elevations determined.
- ZONE VE** Coastal flood with velocity hazard (sea action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X** Areas of 500-year flood, areas of 100-year flood with average depths of less than 1 foot or with damage potential less than 1 square mile, and unincorporated by laws, 100-year flood.

OTHER AREAS

- ZONE X** Areas determined to be outside 500-year flood plain.
- ZONE D** Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Flood Boundary
- Floodway Boundary
- Zone D Boundary
- Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zone.
- Base Flood Elevation Line; Elevation in Feet
- Cross Section Line
- Base Flood Elevation in Feet Where Uniform Within Zone
- Elevation Reference Mark
- Village Mark

NOTES

This map is to be used in administering the National Flood Insurance Program. It does not necessarily identify all buildings, structures, or Special Flood Hazard Areas of all areas subject to flooding, particularly from local drainage sources of small size.

Areas of Special Flood Hazard (100-year flood) include zones: A, AE, AH, AD, A99, V, VE and X, 1/2.

Certain areas not on Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodway were computed as cross sections and interpolated between cross sections. The floodway was based on hydrologic considerations, with regard to requirements of the Federal Emergency Management Agency. Floodway widths in some areas may be narrower than shown to comply with the Floodway Data Table where floodway widths are shown at 120 feet.

Coastal base flood elevations apply only landward of the shoreline.

This map incorporates appropriate benefits of coastal barriers established under the Coastal Barrier Resources Act (PL 97-348).

Elevation reference marks are described in the Flood Insurance Study Report. Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

MAP KEY IN FORCE

City Hall, Lastrup, Minnesota
(Map available for reference only, not for distribution)

INITIAL IDENTIFICATION:
SEPTEMBER 9, 1974.

FLOOD HAZARD BOUNDARY MAP REVISION:
APPROXIMATE 1978-79
NOVEMBER 22, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE:
SEPTEMBER 30, 1990

FLOOD INSURANCE RATE MAP REVISIONS:
Map revised September 14, 1990
to change Special Flood Hazard Areas.

As determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6627.

APPROXIMATE SCALE IN FEET

0 500 1000



FLOOD PRONE STREET INDEX
NOTES TO USER

This index provides a list of all streets shown on the Flood Insurance Rate Map (FIRM) that are partially or totally within Special Flood Hazard Areas (SFHA). This index should not be used as an authoritative source for determining whether specific streets, properties, or buildings are within an SFHA. The appropriate FIRM panel must be consulted for these purposes. This index is intended to be used only as a guide for determining which FIRM panel displays the street in question and the relative location of the street on the FIRM panel.

KEY

STREET NAME	PANEL NUMBER
BAKER STREET	0005 (A2)
grid location	
NAMED STREETS	
MAIN STREET	0001 (B3, B4)
DAK STREET	0001 (B3)
LAKE STREET	0001 (B3)
PINE STREET	0001 (B4)
OREKMAN STREET	0001 (B4)
NUMBERED STREETS	
STATE HIGHWAY 27	0001 (B3, C3)

NATIONAL FLOOD INSURANCE PROGRAM


FIRM
FLOOD INSURANCE RATE MAP

CITY OF
LASTRUP,
MINNESOTA
MORRISON COUNTY

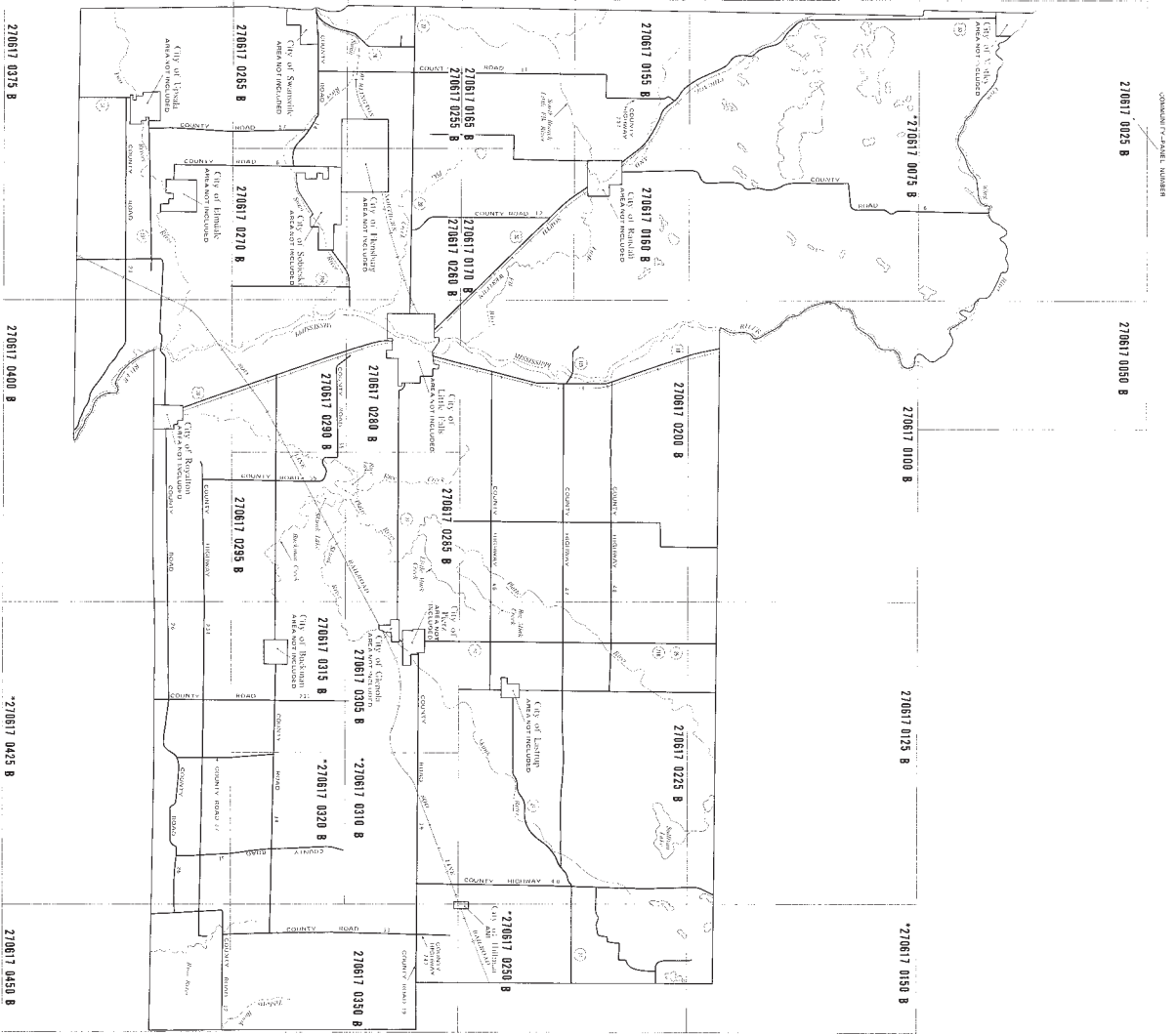
(ONLY PANEL PRINTED)

COMMUNITY-PANEL NUMBER:
270298 0001 D


MAP REVISED:
SEPTEMBER 14, 1990



Federal Emergency Management Agency



* AREAS NOT PRINTED ARE IN ZONE C



NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP

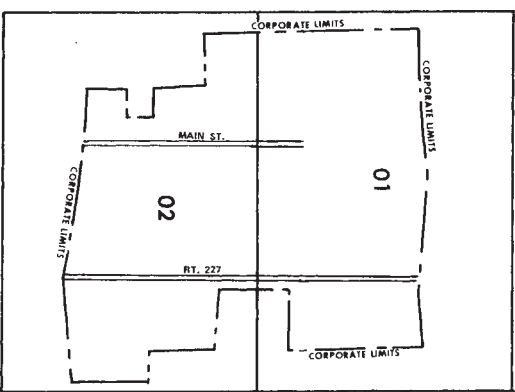
COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

MAP INDEX
 PAGES PRINTED: 26, 50, 100,
 125, 150, 160, 180, 190, 200, 225,
 250, 260, 280, 290, 298, 299, 290,
 325, 350, 375, 390, 395, 400, 420

COMMUNITY CARE NUMBERS
 270817 0001-0450
EFFECTIVE DATE:
 JUNE 15, 1981

Federal Emergency Management Agency
 Federal Insurance Administration

These maps may not include all Special Flood Hazard Areas in the community. After a more detailed study, the Special Flood Hazard Areas shown on these maps may be modified, and other areas added. Consult NFIA Servicing Company or local insurance agent or broker to determine if properties in this community are eligible for flood insurance.

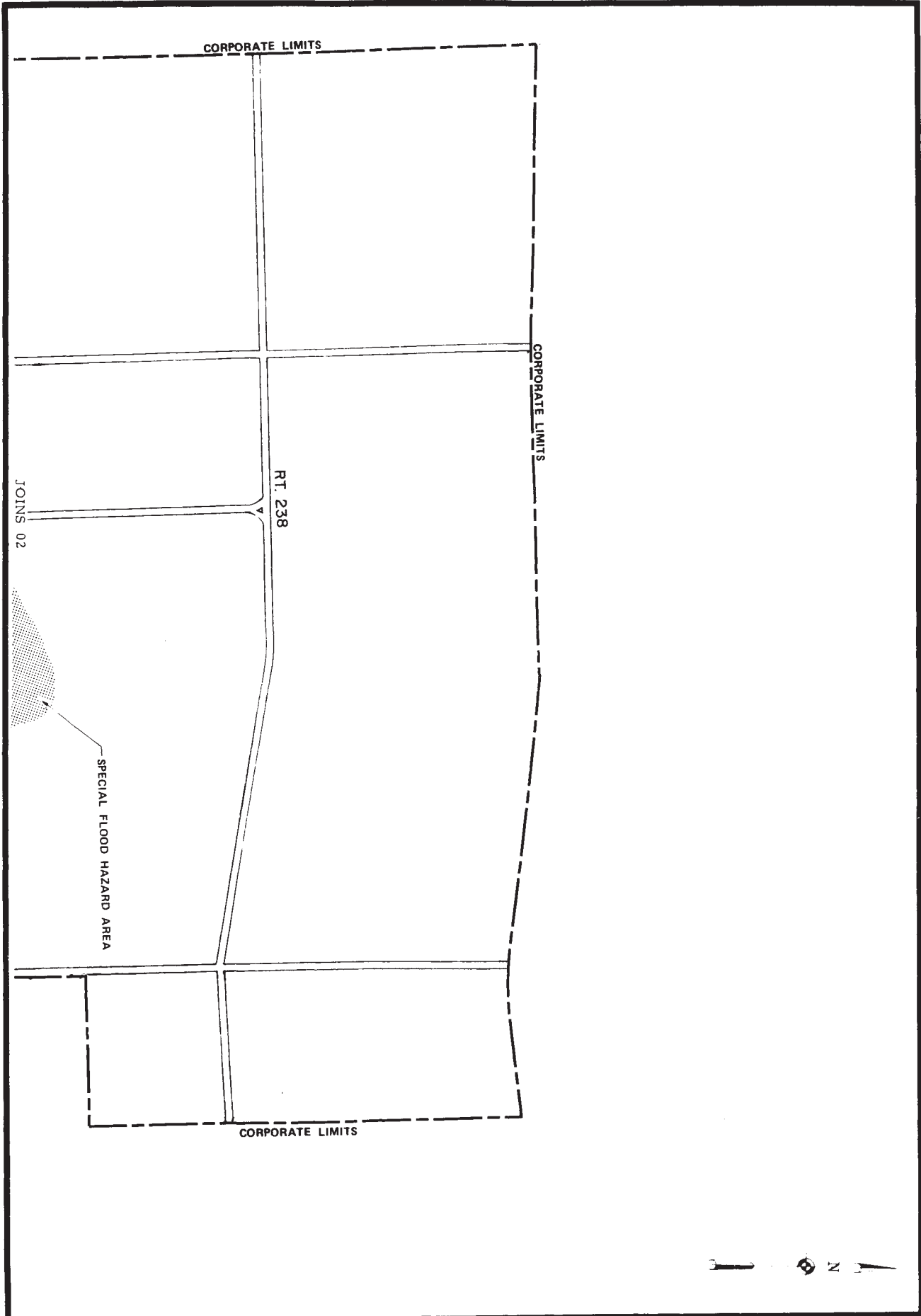


SPECIAL FLOOD HAZARD AREA
IDENTIFICATION DATE
OCTOBER 25, 1974

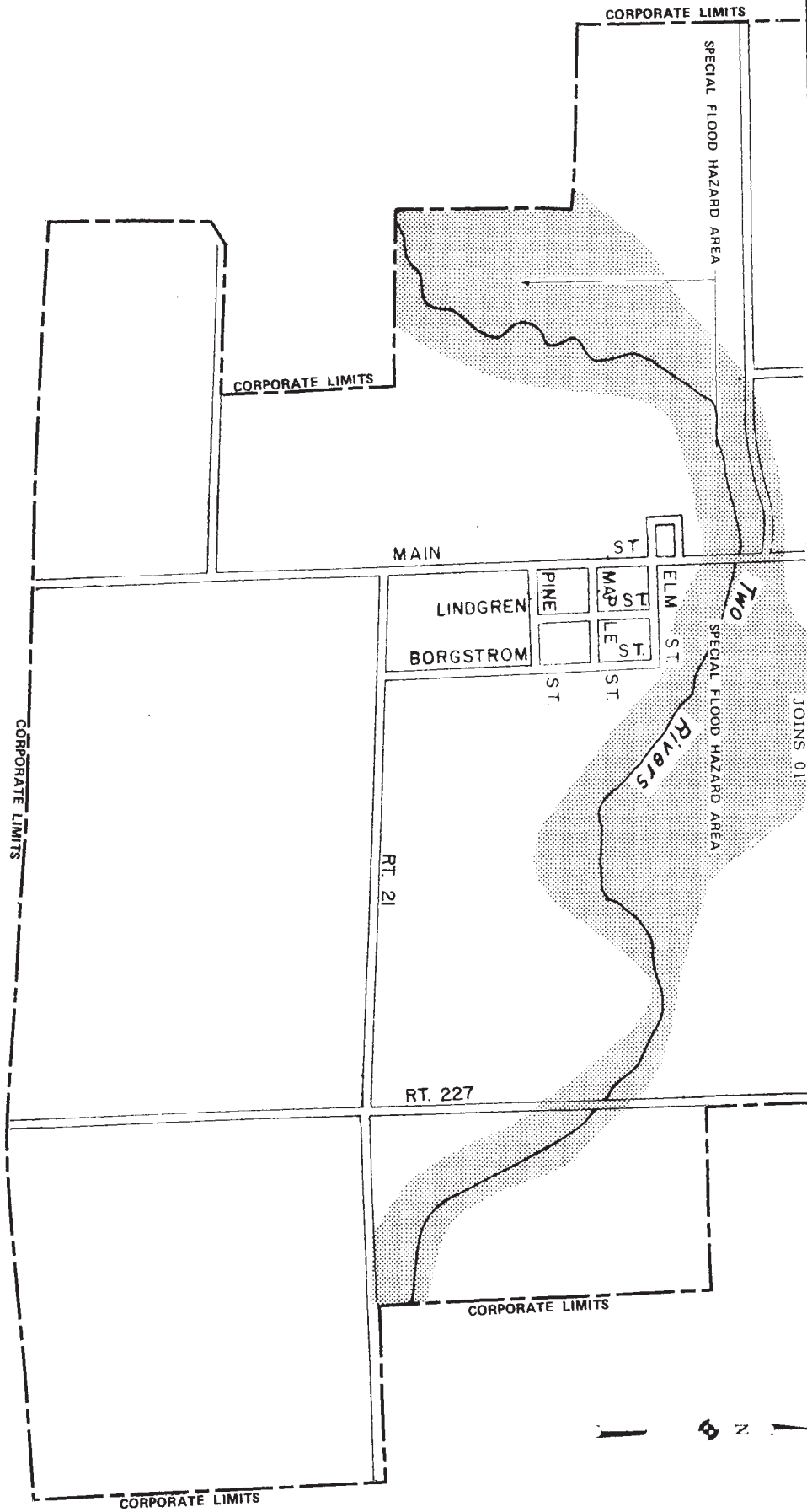
LEGEND
Lavage
Sea Wall

SPECIAL FLOOD HAZARD AREA **ZONE A**

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
Federal Insurance Administration
CITY OF UPSALA, MN
(MORRISON CO.)
MAP INDEX
FIA FLOOD HAZARD BOUNDARY MAPS
No. H-01-02

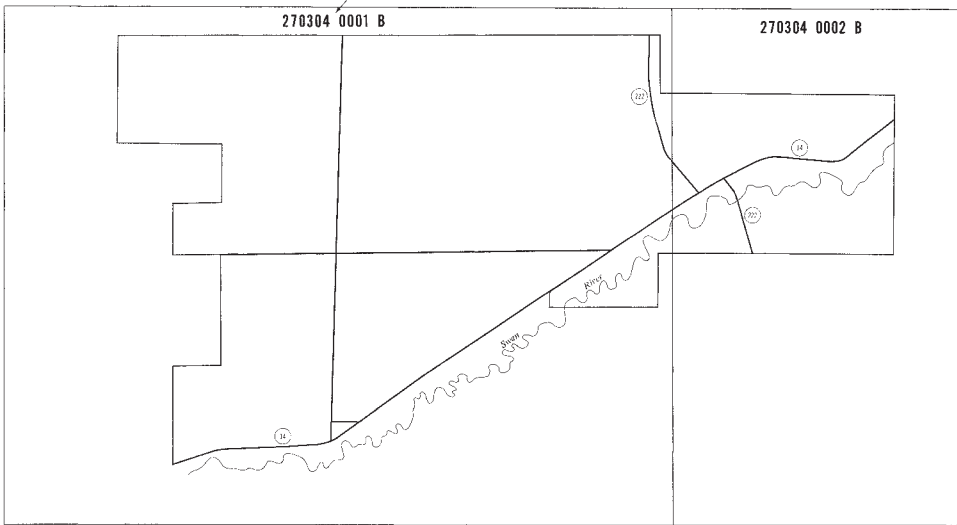


01	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Federal Insurance Administration CITY OF UPSALA, MN (MORRISON CO.)	APPROXIMATE SCALE 500 0 1000 2000 3000 FEET	Effective Date: OCTOBER 25, 1974
	FIA FLOOD HAZARD BOUNDARY MAP No. H 01		



02	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Federal Insurance Administration CITY OF UPSALA, MN (MORRISON CO.)	APPROXIMATE SCALE 500 0 1000 2000 3000 FEET	Effective Date OCTOBER 25, 1974
	FIA FLOOD HAZARD BOUNDARY MAP No. H02		

COMMUNITY-PANEL NUMBER



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
SOBIESKI,
MINNESOTA
MORRISON COUNTY

PANELS PRINTED: 1, 2

MAP INDEX

COMMUNITY-PANEL NUMBERS
270304 0001-0002

EFFECTIVE DATE:
JULY 16, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

LEGEND

SPECIAL FLOOD HAZARD AREA WITH DATE OF IDENTIFICATION

ZONE A	DATE
[Dotted pattern]	

Note: These maps may not include all Special Flood Hazard Areas in the community. After a more detailed study, the Special Flood Hazard Areas shown on these maps may be modified, and other areas added.

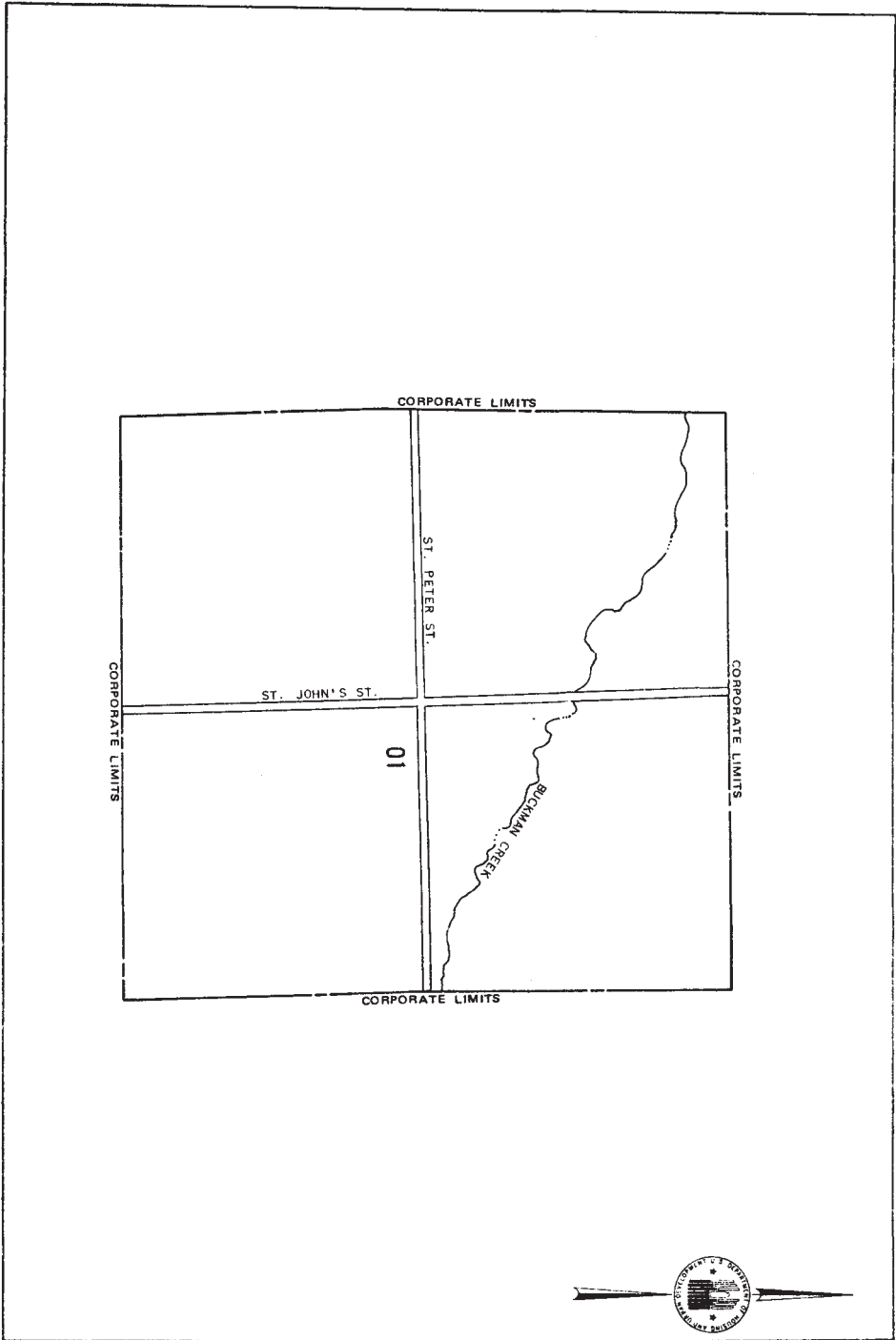
CONSULT NFIA SERVICING COMPANY OR LOCAL INSURANCE AGENT OR BROKER TO DETERMINE IF PROPERTIES IN THIS COMMUNITY ARE ELIGIBLE FOR FLOOD INSURANCE.

INITIAL IDENTIFICATION DATE:

AUGUST 9, 1974

REVISION DATES:

7-16-76: REDUCE S.F.H.A., SHOW CURVILINEAR BOUNDARIES



DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

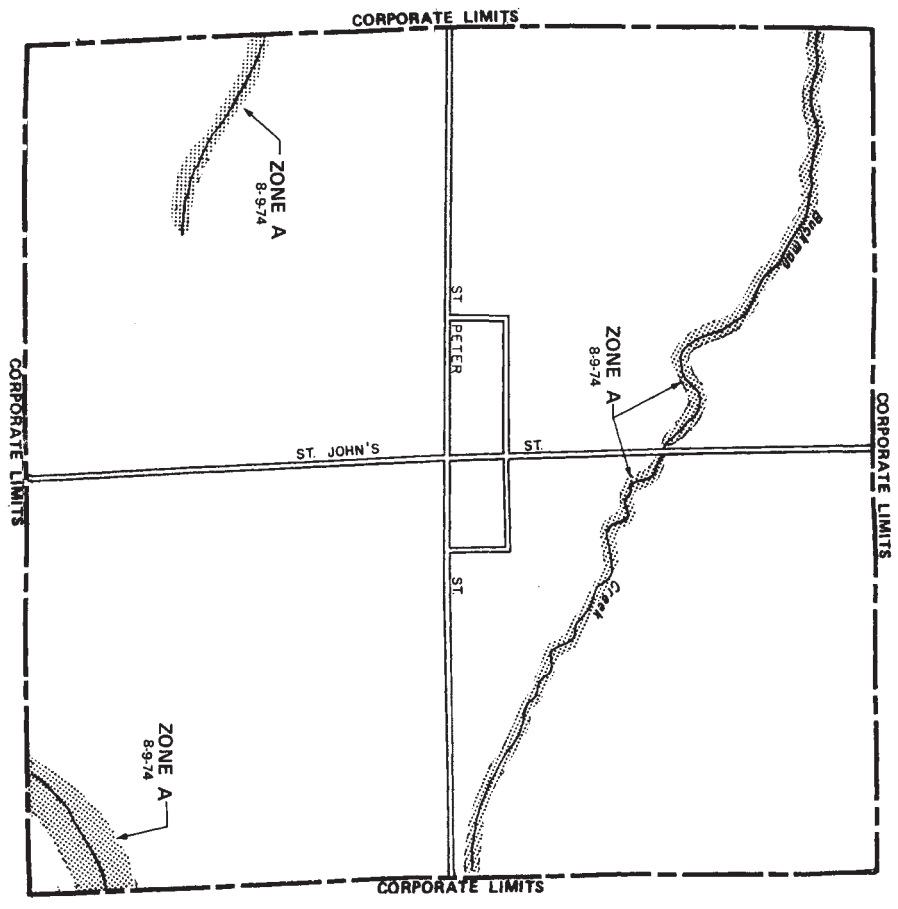
Federal Insurance Administration

FLOOD HAZARD BOUNDARY MAP H - 01

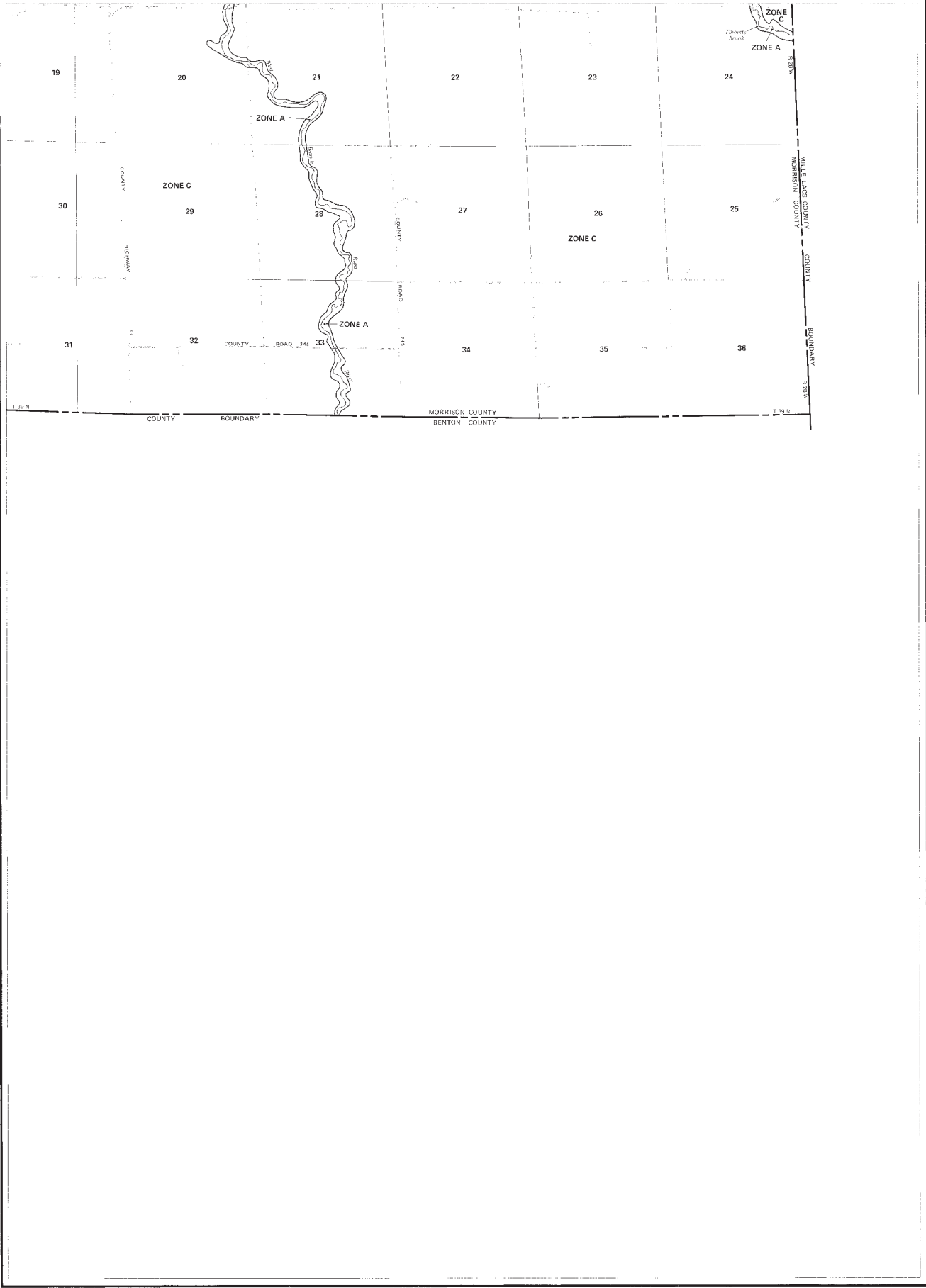
MAP INDEX

CITY OF BUCKMAN, MN
(MORRISON CO.)

COMMUNITY NO. 270294A



01	DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Federal Insurance Administration CITY OF BUCKMAN, MN (MORRISON CO.)	APPROXIMATE SCALE 500 0 1000 2000 3000 FEET	Map Revised: JULY 16, 1976
	FIA FLOOD HAZARD BOUNDARY MAP No. H 01		



KEY TO MAP

500-Year Flood Boundary
 100-Year Flood Boundary
 Zone Designation* With Date of Identification
 100-Year Flood Boundary
 500-Year Flood Boundary
 Base Flood Elevation Line With Elevation in Feet**
 Base Flood Elevation in Feet Where Uniform Within Zone**
 Elevation Reference Mark
 River Mile
 **Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood, base flood elevations and flood hazard factors not determined.
AD	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet, average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (Zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or its unincorporated areas outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
 APRIL 21, 1983

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
 JUNE 15, 1981

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine which actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-6372.

APPROXIMATE SCALE
 2000 0 5000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COUNTY OF MORRISON, MINNESOTA (UNINCORPORATED AREAS)

PANEL 450 OF 450
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
 270517 0450 B

EFFECTIVE DATE:
 JUNE 15, 1981

federal emergency management agency
 federal insurance administration

APPENDIX F: Emergency Response Professionals Survey Summary

EMERGENCY RESPONSE PROFESSIONALS QUESTIONNAIRE

Thank you for your time in participating in the Morrison County Emergency Response Professionals survey questionnaire. You are being asked to participate in this survey because of your involvement in the public health and safety of Morrison County or your local area. The information you provide throughout this survey will better assist Morrison County in preparing a Pre-Disaster Mitigation Plan to be presented to the Federal Emergency Management Agency (FEMA) in late summer/fall of 2004. Through this Pre-Disaster Mitigation planning process, Morrison County will be identifying and assessing potential disasters within Morrison County and developing a plan aimed to prevent or lessen the impacts of disasters in the future. We ask that you please take a few minutes to complete this questionnaire and return it to Dianne Werkman with the Morrison County Sheriff's Department.

NATURAL DISASTER INFORMATION

1. In the past five years, have you had direct experience with a natural disaster such as severe weather, flood, wildfire, or similar type of natural disaster in Morrison County?

15% Yes (If YES, continue with Question 2)

85% No (If NO please skip to Question 4)

2. If you answered YES to question 1, which of these natural disasters have you experienced? (Please check all that apply)

0 Drought

0 Dust Storm

1 Flood

1 Wildfire

1 Household Fire

0 Thundstorm (Resulting in Damage/Injury)

7 Thunderstorm (Resulting in Damage/Injury)

0 Tornado

0 Winter Storm (Resulting in Damage/Injury)

0 Other (Specify) _____

3. If you answered YES to Question 1, in your opinion were there measures that could have been taken to prevent or reduce damage or harm to persons or property?

Yes (Please specify measures that you feel could have been taken below)

No

APPENDIX F: Emergency Response Professionals Survey Summary

4. In your opinion, how concerned are you with the following natural disasters effecting Morrison County? (Please circle a number for each hazard)

Natural Disaster	Extremely Concerned	Very Concerned	Concerned	Somewhat Concerned	Not Concerned
Drought (Average:	1	2	3	4	5
Windstorm	1	2	3	4	5
Dust Storm	1	2	3	4	5
Thunderstorm	1	2	3	4	5
Flood	1	2	3	4	5
Tornado	1	2	3	4	5
Wildfire	1	2	3	4	5
Winter Storm	1	2	3	4	5
Household Fire	1	2	3	4	5
Other: _____	1	2	3	4	5
Other: _____	1	2	3	4	5
Other: _____	1	2	3	4	5

HUMAN-CAUSED AND TECHNOLOGICAL DISASTER INFORMATION

5. In the past five years, have you had direct experience with a human-caused and/or technological disaster such as civil disorder, aircraft or motor-vehicle accident, hazardous material accident, or similar types of human-caused or technological disaster within Morrison County?

77% Yes (If YES, continue with Question 6)

23% No (If NO please skip to Question 8)

6. If you answered YES to question 5, which of these human-caused disasters have you experienced? (Please check all that apply)

- Dam Failure
- Drinking Water Contamination
- Civil Disorder
- Railroad-related Accident
- Aircraft Accident
- Motor-Vehicle Accident
- Energy Shortage/System Failure
- Wastewater/Drinking Water System Failure
- Industrial Accidents
- Nuclear Accidents
- Pipeline-related Disasters
- Hazardous Material Accidents
- Arson
- Crimes against Persons or Property
- Other: _____

7. If you answered YES to Question 5, in your opinion were there measures that could have been taken to prevent or reduce damage or harm to persons or property?

39% Yes (Please specify measures that you feel could have been taken below)

- 1. Better police coverage
- 2. Defensive driving training

APPENDIX F: Emergency Response Professionals Survey Summary

- 3. Driving more carefully. Don't drink and drive
- 4. Motor vehicle accidents and civil disorder almost always involve alcohol or drugs
- 5. Yes, and they were done by MN Dot who came out and installed flashing lights on the corner

31% No

8. In your opinion, how concerned are you with the following human-caused and technological disasters effecting Morrison County? (Please circle a number for each hazard)

Human-Caused Disaster	Extremely Concerned	Very Concerned	Concerned	Somewhat Concerned	Not Concerned
Civil Disorder	1	2	3	4	5
Aircraft Accident	1	2	3	4	5
Motor Vehicle Accident	1	2	3	4	5
Railroad Accident	1	2	3	4	5
Arson	1	2	3	4	5
Crime against Persons/Property	1	2	3	4	5
Hazardous Material Accident	1	2	3	4	5
Dam Failure	1	2	3	4	5
Drinking Water Contamination	1	2	3	4	5
Energy Shortage/System Failure	1	2	3	4	5
Industrial Accident	1	2	3	4	5
Nuclear Accident	1	2	3	4	5
Pipeline Disasters	1	2	3	4	5
Wastewater/Drinking Water System Failure	1	2	3	4	5
Other: _____	1	2	3	4	5
Other: _____	1	2	3	4	5
Other: _____	1	2	3	4	5

9. Out of all of the natural, human-caused and technological disasters presented by Questions 4 and 8, please list the top three disasters you feel Morrison County could prevent or lessen the impacts of through advance planning.

- 1. Civil Disorder, Hazmat, Household Fire, Nuclear Accident, Tornado
- 2. Flood, Hazardous Material Accident, Industrial Accident, Motor vehicle accident, Pipeline Disasters, Railroad
- 3. Arson, Drinking water contamination, Hazmat, Pipeline Accident, Pipeline Disaster, Railroad accident, Tornado

APPENDIX F: Emergency Response Professionals Survey Summary

10. How familiar are you with Pre-Disaster or Hazard Mitigation Planning?
(Please circle one answer)

1. Very Familiar 8% 2. Somewhat Familiar 54% 3. Not Familiar 39%

11. Would you be willing to participate in Morrison County’s Pre-Disaster Mitigation Planning process by attending meetings, developing goals and objectives, or similar functions?

39% Yes (If YES, please include your name, address, and daytime phone number in section 13)

54% No (Please complete section 12 only)

12. Please identify the following information:

Name of Emergency Service/Department you are affiliated with (Police, Fire, First Response, etc.):

- Fire
- First Response
- Flensburg Volunteer Fire Dept.
- Hillman Area First Response
- Little Falls PD/ EMS Council
- MN National Guard
- Motley Fire Dept.
- Pierz Fire Dept.
- Pillager Area Fire and Rescue
- Police
- Randall Fire Pet.

Years employed/volunteering in Department/Emergency Service: _____

City or Township you live in: _____

- Belle Prairie
- Bowlus
- Flensburg
- Little Falls Township
- Motley
- Pierz
- Randall
- Richardson
- Royalton
- Swanville
- Sylvan Township-Cass

APPENDIX F: Emergency Response Professionals Survey Summary

13. If you answered YES to Question 11, please provide the following information:

_____	(_____)_____
Name	Daytime Telephone
_____	(_____)_____
Address	Fax Machine (If Available)

City, State, Zip	

End of Survey – Thank You!

At your earliest convenience please return to:

Dianne Werkman
Emergency Management Director
Morrison County Government Center
213 First Avenue S.E.
Little Falls, MN 56345

APPENDIX G: Morrison County Healthy Community Partnership Team

These individuals served as the Morrison County Healthy Community Partnership Team. They were the core group selected by the Morrison County Commissioners to represent a cross section of the Community. Emergency Managers from across the County also participated in Task Force meetings conducted during the process.

Steven	Backowski	213 1st Ave. S.E.	Little Falls	MN	56345
Francis	Brisk	19921 Hwy. 371	Little Falls	MN	56345
Myron	Czech	12662 125th St.	Little Falls	MN	56345
* Chuck	Forss	213 1st Ave. S.E.	Little Falls	MN	56345
Conrad	Freeberg	315 3rd St. S.E.	Little Falls	MN	56345
Mark	Gerbi	P.O. Box 178	Little Falls	MN	56345
Tim	Houle	213 1st Ave. S.E.	Little Falls	MN	56345
Tim	Crocker	11376 Great River Road	Little Falls	MN	56345
* Bob	Keeton	1692 Timber Lane	Cushing	MN	56443
Al	Kuebelbeck	24495 Jewel Rd.	Little Falls	MN	56345
Roger	Kuklok	213 1 st Ave. S.E.	Little Falls	MN	56345
Helen	McLennan	1410 Riverview Dr.	Little Falls	MN	56345
Don	Meyer	19628 305 th Ave.	Pierz	MN	56364
Pat	O'Regan	P.O. Box 173	Motley	MN	56482
* Chuck	Parins	11878 Zebulon Shores Dr.	Little Falls	MN	56345
Tom	Scherling	P.O. Box 149	Little Falls	MN	56345
Marty	Skoglund	14442 Oak Ridge Dr.	Little Falls	MN	56345
Michelle	Warnberg	213 1 st Ave. S.E.	Little Falls	MN	56345
Tom	Wenzel	20754 Hwy. 10	Little Falls	MN	56345
Gene	Young	15234 Game Farm Rd.	Little Falls	MN	56345

* Co-Chairs

SECTION 6.0 THE MORRISON COUNTY PLANNING PROCESS

6.1 Planning Process Overview

The Morrison County Comprehensive Plan is built upon a strong foundation of participation by citizens, local officials, community groups and civic organizations, businesses, and similar citizen participation. This scope of participation began at the very start and remained strong through the closing of the process including widespread participating in visioning events, public forums, local government official meetings, and providing comments on this plan.

Instrumental to the development of this plan were the Morrison County Healthy Community Partnership Team who provided oversight, guidance, and participation in the planning process including direct facilitation of the primary visioning session held in conjunction with this plan. This team is comprised of over 20 individuals from many different aspects of the community including participation groups mentioned above which provided a direct link to a broad spectrum of Morrison County. Below is a synopsis of all meetings and events held throughout the Morrison County Comprehensive Planning process.

Kick-Off Meeting
Local Government Officials Participation
Citizen Participation
Interest Group Participation (Special Topics Forum)
Public Review and Adoption

6.2 The “Kick-Off”

Total Participants: Approx. 120

Target Audience: Any interested persons

Meeting Date: January, 2002

Description of “Kick-Off” Meeting:

This meeting provided residents, landowners, members of the business community, civic or social organizations, and any other interested persons or groups with an introduction of the Morrison County Comprehensive Planning process.

6.3 Local Government Officials Survey

Total Participants: 35 (Although forms were mailed to every township and city official individually, most chose to fill out survey questionnaires as a board or council)

Description of Survey:

The purpose of the Local Government Official Survey was to obtain opinions from township board members and city council members on various topics such as land use, trails, hazard mitigation planning, and similar topics. To maximize participation in the survey process, a questionnaire was mailed to every township and city official within the County. Although survey forms were intended to be completed as individuals it was found that many of the forms were completed as boards or councils rather than individuals, showing the strong ability of local officials within Morrison County to work together. Survey information was valuable in determining issues facing Morrison County at the present time and in the future.

6.4 Local Government Officials Meetings

Target Audience: Town Board Members, City Council Members

Total Participants: Over 100

Meeting Dates: (1st Round)	Block 1	April 21, 2003
	Block 2	May 5, 2003
	Block 3	May 14, 2003
	Block 4	May 20, 2003
	Block 5	May 29, 2003
	Block 6	June 4, 2003
	Block 7	June 11, 2003
	Block 8	June 25, 2003

Meeting Dates: (2nd Round)	Block 2	June 17, 2003
	Blocks 4 & 5	July 9, 2003
	Blocks 6, 7 & 8	July 23, 2003
	Blocks 1 & 3	August 6, 2003

Description of Meeting Series:

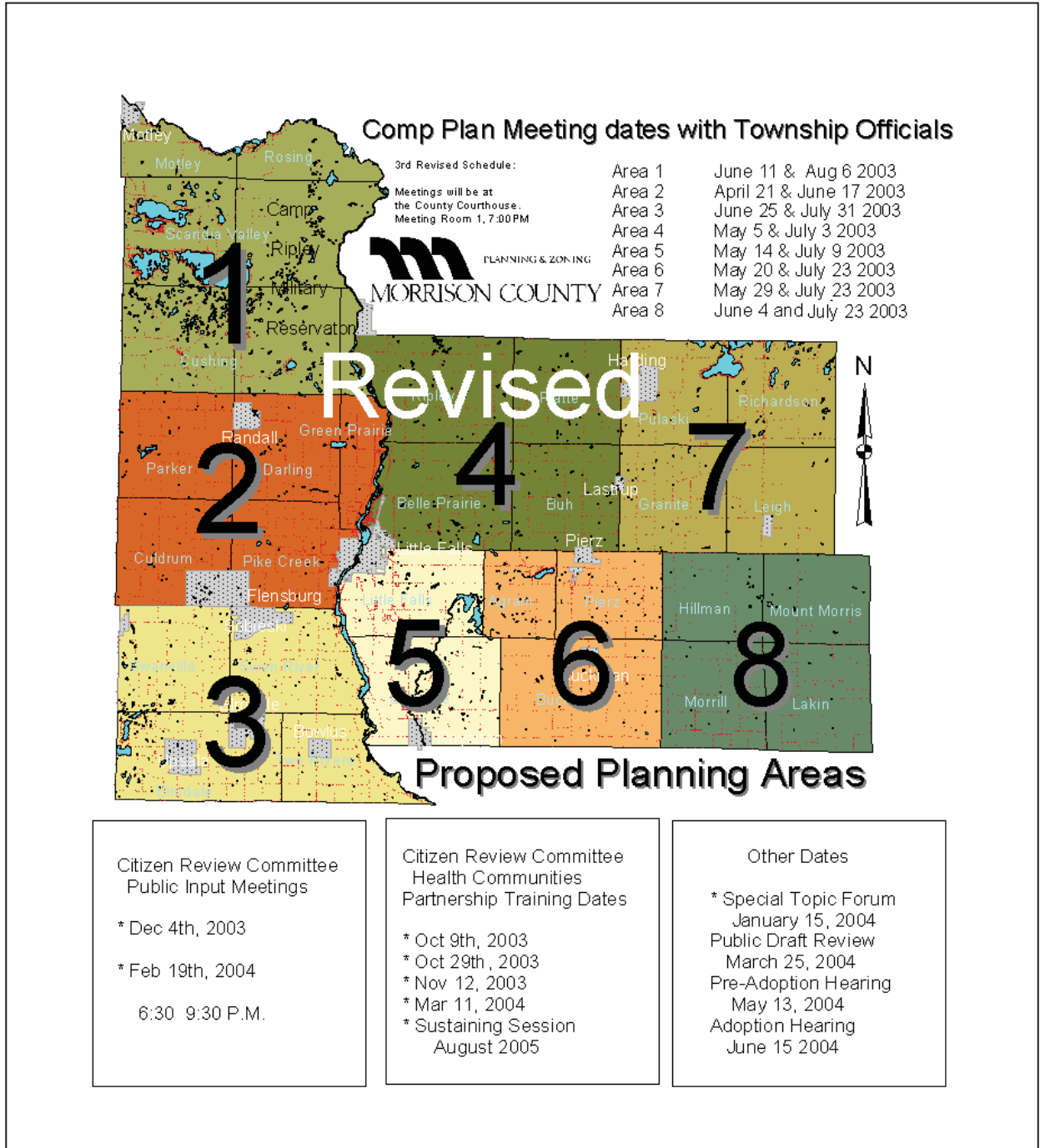
(1st Round)

Local government official meetings were held to give township board members and city council members an opportunity to share positive and negative aspects, or strengths and weaknesses, of current land use in and around their communities. Participants were asked to draw upon discussions they may have had within their respective local units of government in sharing this information. The meeting also offered an opportunity for participants to share the opportunities that may exist within Morrison County 5, 10, 15 years into the future or through the year 2025.

(2nd Round)

The second of two local government official meetings focused primarily on the development of trails and hazard mitigation planning within Morrison County, however offered local officials an additional opportunity to address any remaining land use issues. The information obtained within the second round of local official meetings was used for the development of the Morrison County Trails Plan, Hazard Mitigation Plan, and this Comprehensive Plan.

Local Government Official Meeting Blocks Map



6.5 Citizen (Public) Visioning Sessions (2 Sessions)

Target Audience: General public including residents and landowners

Total Participants: Approximately 280

Meeting Date: December 3, 2003 and February 19, 2004

Description of the First Visioning Session:

Through this visioning session citizens offered their opinions as to the strengths, weaknesses, and desired outcomes for each of the topics discussed. The components themselves were intended to cover the wide range or spectrum of physical and social aspects of Morrison County. The following is a list of topics discussed in a “round table” setting at the first citizen visioning session:

- Land Use and Shoreland Management
- Land Use and a Healthy Lifestyle
- Land Use and Feedlot Regulations
- Land Use and Agriculture (Small Farms)
- Infrastructure
- Economic Development & Agriculture
- Commercial, Industrial and Workforce
- Residential Growth and Housing
- Natural Resources and Critical Areas
- Recreational Trails

Description of the Second Visioning Session:

The following topics were discussed in a facilitated setting at the second citizen visioning session:

- Impacts of Morrison County Biological Survey on Land Use
- Hazard Mitigation Identification and Assessment (Including Mapping Exercise)
- Trails Planning in Morrison County (Including Mapping Exercise)

Results from visioning sessions one and two, together with the results from local government official input, were used in Task Force meetings to develop the goals, objectives, and policies within this plan.

6.6 Special Topics Forum

Target Audience: Civic and community organizations, local special interest associations or groups, and the general public including residents and landowners

Total Participants: Approximately 150

Meeting Date: January 15, 2004

Description of the Special Topics Forum:

The special topics forum provided a unique platform for those who represent a collection of community, business, agriculture and similar interests an opportunity to provide information to citizens of the County and to Morrison County planning process participants.

6.7 Task Forces

Task Forces were formed for each of the following topics:

Task Force: Land Use
Subcommittees: Shoreland Issues
(Special Issues) Small Farms

Responsibilities: To develop land use goals and objectives for Morrison County based from the broad-range of public, local official, businesses, and civic and community organizations. Subcommittees were developed from the entire group to reflect special land use issues.

Task Force: Feedlots
Subcommittees: None
(Special Issues)

Responsibilities: To develop feedlot goals and objectives for the Morrison County Comprehensive Plan. No special issues subcommittees were formed from this task force due to feedlots being a special issue.

6.8 Public Review

A draft of the Comprehensive Plan was mailed to all Local Government Units, Agencies, Departments, appropriate State Offices, Regional Offices, and others. One written comments was received from a Township. The lack of comments at the end of the process revealed a successful information gathering process and confidence that the document reflected the concepts presented by those involved in the process.

Morrison County Comprehensive Land Use Plan 2005-2025

Morrison County, Minnesota

County Board

Jeff Schilling
2005 Chairman, District 2

District 1
Tom Wenzel

District 4
Don Meyer

District 3
Gene Young

District 5
Bill Block

Morrison County Planning Commission:

Charles L. Parins
Robert Lorenz
Darvin Keehr
Frances Brisk

Comm. Gene Young
Dennis Prozinski
Ronald Miller
Conrad Freeberg
County Attorney

Shelly Boser
Wallace Pantzke
Joseph Banach
Steve Backowski
County Engineer

Morrison County Board of Adjustment:

Ronald Miller
Robert Keeton

Don Thompson
Steve Backowski
County Engineer

Greg Colombe
Conrad Freeberg
County Attorney

Planning & Zoning Staff

Planning & Zoning Administrator
Assistant P&Z Administrator/Feedlots
Land/Water Planner
Zoning Technician
Management Secretary
Management Secretary

Roger Kuklok
Michelle Warnberg
Chuck Forss
Jennifer Holtz
Marilyn Shorter
Sharon Peterson

Initiative Foundation

Healthy Communities Partnership (HCP)

Team Membership List

Co-Chairs Chuck Parins, Chuck Forss, Bob Keeton

Steven Backowski	Morrison County Highway Department
Francis Brisk	Association of Townships
Myron Czech	Agriculture in Morrison County
Chuck Forss	Morrison County Planning & Zoning
Conrad Freeberg	Cultural & Morrison County Attorney
Mark Gerbi	Healthy Communities Collaborative
Tim Houle	Government - Morrison County Administrator
Tim Crocker	Minnesota Department of Natural Resources
Bob Keeton	Morrison County Lake and River Alliance - BOA
Al Kuebelbeck	Business and Industry
Roger Kuklok	Morrison County Planning & Zoning
Helen McLennan	Education & Soil and Water Conservation District
Don Meyer	Commissioner
Pat O'Regan	Trails and Municipalities
Chuck Parins	Camp Ripley & Morrison County Planning Commission
Tom Scherling	Housing
Marty Skoglund	Environmental Issues & Camp Ripley Military Training Facility
Michelle Warnberg	Morrison County Feedlots
Tom Wenzel	Commissioner and Morrison County Seniors
Gene Young	Morrison Commissioners

This plan was compiled with assistance from the Region Five Development Commission, The Initiative Foundation and the Blandin Foundation

Region Five Development Commission Staff:

Timothy Schmidt, Physical Resources Director
Christopher Etzler, Transportation Planner

The mission of the Region Five Development Commission is to provide high quality, professional planning and development services through collaboration, assistance, and coordination with local units of government, organizations, and citizens. The principal objective of the Commission is to enhance the vitality and quality of life in Cass, Crow Wing, Morrison, Todd, and Wadena Counties.

APPENDIX

H

Adoption Resolutions

MORRISON

R'vd	Jurisdiction	Date
<input checked="" type="checkbox"/>	County	<u>7/22/07</u>
<input checked="" type="checkbox"/>	Bowlus	<u>8/8/07</u>
<input checked="" type="checkbox"/>	Buckman	<u>7/20/07</u>
<input type="checkbox"/>	Elmdale <i>no answer 9/26</i>	_____
<input type="checkbox"/>	Flensburg <i>9/26</i>	_____
<input checked="" type="checkbox"/>	Genola	<u>8/6/07</u>
<input checked="" type="checkbox"/>	Harding	<u>7/11/07</u>
<input checked="" type="checkbox"/>	Hillman	<u>7/2/07</u>
<input checked="" type="checkbox"/>	Lastrup	<u>8/6/07</u>
<input checked="" type="checkbox"/>	Little Falls	<u>7/16/07</u>
<input checked="" type="checkbox"/>	Motley	<u>7/11/07</u>
<input checked="" type="checkbox"/>	Pierz <i>9/26</i>	_____
<input type="checkbox"/>	Randall	_____
<input checked="" type="checkbox"/>	Royalton	<u>7/24/07</u>
<input type="checkbox"/>	Sobieski <i>1/m 9/26</i>	_____
<input checked="" type="checkbox"/>	Swanville	<u>8/8/07</u>
<input checked="" type="checkbox"/>	Upsala	<u>7/19/07</u>

andacity@brainerd.net

Morrison County

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION PLAN

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the County by resolution on September 28, 2004 approved the 2004 version of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

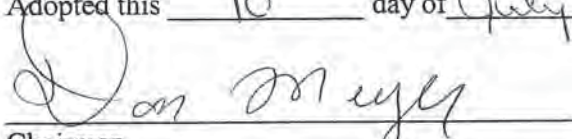
WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction; and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the County will pursue available funding opportunities for implementation of the proposals designated therein, will upon receipt of such funding or other necessary resources, seek to implement the actions contained in the mitigation objectives and also upon approval authorize the Region Five Development Commission to submit on the County's behalf the plan to all cities within the County for approval.

Adopted this 10 day of July, 2007


Chairman

Attest:



City of Bowlus

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Bowlus has had the opportunity to participate in the planning process; and

WHEREAS, the City of Bowlus by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Bowlus from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Bowlus will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 2nd day of July, 2007



Chairman

Attest: Joanne C Jussy

City of Buckman

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Buckman has had the opportunity to participate in the planning process; and

WHEREAS, the City of Buckman by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and


WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and


WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Buckman from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Buckman will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 12th day of July, 2007


Chairman

Attest: 

Original Copy

City of Genola

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Genola has had the opportunity to participate in the planning process; and

WHEREAS, the City of Genola by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Genola from preparing a separate plan sometime in the future should it desire to do so.

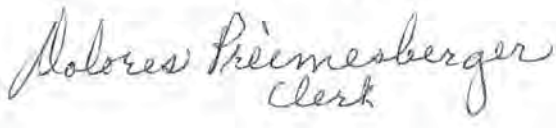
NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Genola will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 30 day of July, 2007



Chairman

Attest: _____


Dolores Kreimesberger
Clerk

City of Harding

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Harding has had the opportunity to participate in the planning process; and

WHEREAS, the City of Harding by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and


WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Harding from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Harding will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 9th day of July, 2007



Chairman

Attest: _____

City of Hillman

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Hillman has had the opportunity to participate in the planning process; and

WHEREAS, the City of Hillman by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Hillman from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Hillman will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this July day of 3, 2007

Rita Wilson, city clerk
Chairman

Attest: _____

City of Lastrup

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Lastrup has had the opportunity to participate in the planning process; and

WHEREAS, the City of Lastrup by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Lastrup from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Lastrup will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 17 day of July, 2007

Frank Alth
Chairman *Mayor*

Attest: Robeta Guss, Clerk

City of Little Falls

RESOLUTION 2007-80

RESOLUTION APPROVING MORRISON COUNTY'S HAZARD MITIGATION PLAN

WHEREAS, the County of Morrison is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Little Falls has had the opportunity to participate in the planning process; and

WHEREAS, the City of Little Falls, by resolution, supported Morrison County's planning efforts; and

WHEREAS, Region Five Development Commission, under the guidelines established by the Federal Disaster Mitigation Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and the Federal Emergency Management Agency require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the Hazard Mitigation Plan is a record of the Morrison County's potential risks, hazards and commitment to reduce the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the Hazard Mitigation Plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the Hazard Mitigation Plan has been reviewed by City Council of the City of Little Falls, City staff, and the public; and

WHEREAS, the Hazard Mitigation Plan has been approved by the Federal Emergency Management Agency pending final adoption by each participating jurisdiction; and

WHEREAS, adoption by the Commissioners of Morrison County and all local units of government within Morrison County is required for approval by the Federal Emergency Management Agency Region V; and

WHEREAS, the adoption of Morrison County's Hazard Mitigation Plan does not preclude the City of Little Falls from preparing a separate plan in the future if we so desire.

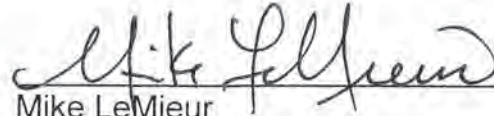
NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Little Falls hereby approves the Morrison County Hazard Mitigation Plan dated December 2006; and

BE IT FURTHER RESOLVED, that the City Council of the City of Little Falls further supports Morrison County's efforts to implement the Action Plan of said Hazard Mitigation Plan to the

Resolution 2007-80
page two

extent specified by the City of Little Falls, as well as the efforts to secure necessary funding for the implementation actions.

Passed this 9th day of July, 2007.



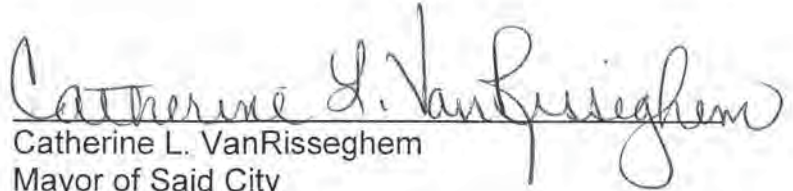
Mike LeMieur
Council President

ATTEST:



Lori Kasella
Acting City Administrator

Approved this 9th day of July, 2007.



Catherine L. VanRisseghem
Mayor of Said City

(SEAL)

City of Motley

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Motley has had the opportunity to participate in the planning process; and

WHEREAS, the City of Motley by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Motley from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Motley will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 9 day of July, 2007


Chairman

Attest: 

City of Pierz

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Pierz has had the opportunity to participate in the planning process; and

WHEREAS, the City of Pierz by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

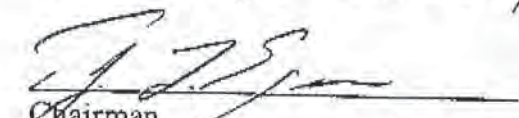
WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and


WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Pierz from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Pierz will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 9 day of Sept., 2007


Chairman

Attest:  Deputy Clerk

Resolution 7-17-07-1

Resolution For Approval of the Hazard Mitigation

WHEREAS, the County of Morrison is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Royalton has had the opportunity to participate in the planning process; and

WHEREAS, the City of Royalton by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of Morrison County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Council, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction; and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Royalton from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Royalton will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 17th day of July, 2007



Mayor

Attest: 

City of Swanville

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Swanville has had the opportunity to participate in the planning process; and

WHEREAS, the City of Swanville by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Swanville from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Swanville will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 3 day of July, 2007

Chairman 

Attest:  City Clerk/Treas

City of Upsala

RESOLUTION FOR APPROVAL OF THE HAZARD MITIGATION

WHEREAS, the County of Morrison [the County] is participating in a hazard mitigation planning process as established under the Federal Disaster Mitigation Act of 2000; and

WHEREAS, the City of Upsala has had the opportunity to participate in the planning process; and

WHEREAS, the City of Upsala by resolution supported the Morrison County planning efforts; and

WHEREAS, the Region Five Development Commission, under the guidelines established by the Act, has provided a framework for the development of the Morrison County Hazard Mitigation Plan; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and FEMA require communities to adopt a hazard mitigation action plan to be eligible for pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, the plan is a record of the County's potential risks and hazards and commitment to reducing the long-term consequences of natural, human caused and technological hazards; and

WHEREAS, the plan outlines mitigation goals, identifies risk reduction strategies for hazards that threaten the area, and discusses the ongoing risk reduction strategies to be undertaken with the jurisdiction; and

WHEREAS, the plan has been reviewed by members of this Board, staff, and the public; and

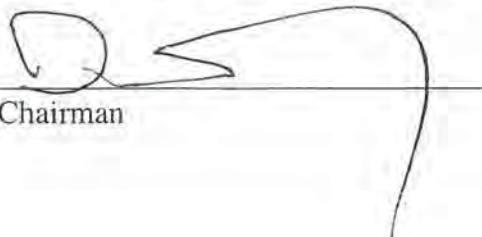
WHEREAS, the plan has been approved by FEMA pending final adoption by each participating jurisdiction, and

WHEREAS, County Board adoption and adoption by local units of government is required for final approval by FEMA Region V; and

WHEREAS, this resolution does not preclude the City of Upsala from preparing a separate plan sometime in the future should it desire to do so.

NOW THEREFORE BE IT RESOLVED, that the Morrison County's Hazard Mitigation Plan is approved in its entirety, and that the City of Upsala will support the County's effort to implement the *Action Plan* of the *Morrison County Hazard Mitigation Plan* to the extent specified by the City, and support City and County efforts to secure necessary funding for implementation actions.

Adopted this 16TH day of JULY, 2007


Chairman

Attest: 

APPENDIX I: Funding Sources

Funding Source	Tornado	Flooding	Winter Storms	Drought	Severe Summer Storms	Wind Storm	Extreme Temp	Wildfire	Infectious Disease	Groundwater Depletion & Contamination	Earthquake	Hazardous Material (Transportation)	Hazardous Material (Fixed Facilities)	Fire	Dam Failure	Terrorism & Civil Disorder	Financial Assistance	Technical Assistance	
FEDERAL SOURCES																			
Business and Industry Loans																			
CDC - Investigations and Technical Assistance																			
CEPP Technical Assistance Grants Program																			
Community Assistance Program - State Support Services																			
Element (NIL)																			
Community Development Block Grant/Economic Development Initiative																			
Community Development Block Grant/ Entitlement Grants																			
Community Development Block Grant/ Small Cities Program																			
Community Disaster Loans																			
Community Facilities Loans and grants																			
Community Outreach Partnership Center Program																			
Conservation Reserve Program																			
Cooperative Forestry Research																			
Cora Brown Fund																			
Direct Housing Natural Disaster (very low/low income loans																			
Disaster Housing Program																			
Economic Adjustment Assistance																			
Economic Development Tech Assistance																			
Emergency Advance Measures for Flood Protection																			
Emergency Community Water Assistance Grants																			
Emergency Conservation Program																			
Emergency Flood and Shelter National Board Program																			
Emergency Management Institute-Resident Ed Program																			
Emergency Management Institute-Training Assistance																			
Emergency Management Performance Grants																			

APPENDIX I: Funding Sources

Funding Source	Funding Source														Technical Assistance			
	Tornado	Flooding	Winter Storms	Drought	Severe Summer Storms	Wind Storm	Extreme Temp	Wildfire	Infectious Disease	Groundwater Depletion & Contamination	Earthquake	Hazardous Material (Transportation)	Hazardous Material (Fixed Facilities)	Fire	Dam Failure	Terrorism & Civil Disorder	Financial Assistance	
FEDERAL SOURCES																		
Emergency Operations Flood Response and Post-Flood Response		X													X		X	
Emergency Rehabilitation of Flood Control Works		X													X		X	
Engineering Grants		X	X												X		X	
Farmland Protection Program		X															X	
Fire Suppression Assistance								X									X	
Flood Insurance		X													X		X	
Flood Mitigation Assistance		X															X	
Flood Plain Management Services		X													X		X	
Flood Control Projects		X													X		X	
Forestry Incentives Program	X					X											X	
Forestry Research	X																X	
Grants for Public Works and Economic Development		X													X			
Grants-in-Aid for Railroad Safety											X							X
Hazard Mitigation Grant Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HazMat Training Program for Implementation of SARA																		X
Health Program for toxic Substance and Disease Registry																		X
Historic Preservation Funds Grants-in Aid	X	X	X		X	X								X				X
HOME Investment Partnerships Program	X	X			X	X											X	
Hydrologic Research		X		X						X					X		X	
Individual and Family Grant Program		X		X							X				X		X	
Planning Grants (HazMat Emergency Preparedness Grant)												X	X				X	
Motor Carrier Safety																		X
National Dam Safety Program															X			X
National Pollutant Discharge Elimination System																		X
National Urban Search and Rescue Response System	X										X						X	

APPENDIX I: Funding Sources

Funding Source	Tornado	Flooding	Winter Storms	Drought	Severe Summer Storms	Wind Storm	Extreme Temp	Wildfire	Infectious Disease	Groundwater Depletion & Contamination	Earthquake	Hazardous Material Accident (Transportation)	Hazardous Material Accident (Fixed Facilities)	Fire	Dam Failure	Terrorism & Civil Disorder	Financial Assistance	Technical Assistance	
FEDERAL SOURCES																			
North American Wetlands Conservation Fund																			
Planning(Land and Water Conservation Fund Grants)										X							X		
Physical Disaster Loans	X	X	X											X			X		
Pipeline Safety											X								
Project Impact: Building Disaster - Resistant Communities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Protection Clearing and Straightening Channels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Public Assistance Grant Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Public Health and Social Services Emergency Fund									X								X		
Railroad Safety											X								X
Resource Conservation and Development	X	X		X			X	X		X	X								X
River, Trails, and Conservation Assistance	X	X																	X
Rural Business Opportunity Grants	X	X																	X
Rural Development Grants	X	X																	X
Rural Electrification Loans	X	X	X		X	X													X
Rural Housing and Economic Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Rural Housing Site Loans and Self - Help Housing and Development Loans		X															X		
Snagging and Clearing for Flood Control		X													X				
Soil and Water Conservation		X		X			X	X		X	X								X
Superfund Technical Assistance Grants for Citizen Groups at Priority Sites													X				X		
Surveys, Studies, Investigations and Special Purpose Grants									X	X		X	X				X		
Technology Development for Environmental Management												X					X		
Very Low Income Housing Repair Loans/Grants	X	X	X		X	X	X	X						X			X		
Very Low to Moderate Income Housing Loans	X	X	X		X	X	X	X						X			X		
Water and Waste Disposal System for Rural Communities	X	X							X				X				X		

APPENDIX I: Funding Sources

Funding Source	Tornado	Flooding	Winter Storms	Drought	Severe Summer Storms	Wind Storm	Extreme Temp	Wildfire	Infectious Disease	Groundwater Depletion & Contamination	Earthquake	Hazardous Material Accident (Transportation)	Hazardous Material Accident (Fixed Facilities)	Fire	Dam Failure	Terrorism & Civil Disorder	Financial Assistance	Technical Assistance	
FEDERAL SOURCES																			
Water/Waste Disposal Loans/Grants									X				X				X		
Watershed Protection and Flood Prevention		X							X	X					X		X		
Watershed Surveys and Planning		X		X						X								X	
Weatherization Assistance for Low-Income Persons							X										X		
Wetlands Protection -Development Grants		X															X		
Wetlands Reserve Program		X															X		
Wildlife Habitat Incentive Program		X															X		

APPENDIX I: Funding Sources

Funding Source
STATE & LOCAL SOURCES
Minnesota Department of Public Safety Programs
Flood Damage Reduction Grant Assistance Program
Citizen Corps Grant Program
Local Taxes & Levies
Bonds
General Fund
Debt Capacity
Self Insurance Funds
Increased Rates
Corporate & Private Donations
Benefit Services Charges
Reserve Funds
Local Improvement Districts

Morrison County Hazard Mitigation Plan Future Updates

The following are brief suggestions of what future updates of this plan should include. These suggestions are based on information received from reviewing agencies.

- ✓ Show an annual percent chance of occurrence or number of events per year.
- ✓ A description of vulnerability of current buildings, infrastructure and critical facilities for each hazard area.
- ✓ A description of vulnerability of future buildings, infrastructure and critical facilities for each hazard area. This type of information could come from comprehensive plans or local development / zoning plans.
- ✓ Include dollar loss estimates for buildings, infrastructure, and critical facilities as they relate to each hazard.
- ✓ Show how loss estimates for each hazard area were determined.
- ✓ General land use is addressed however in future updates development trends should be discussed in the plans. A helpful tool, if available, would be to include a current land use map next to a 20 year old land use map to show any changes in the county.
- ✓ Identify any projects that were addressed for structures in the floodplain. (relocation, buy out, elevation).
- ✓ Address if relocation or elevation projects were considered for structures vulnerable to flooding.
- ✓ Update all historical information to current date.



611 Iowa Avenue NE Staples, MN 56479-2224

Phone: (218) 894-3233 ♦ www.regionfive.org

FAX: (218) 894-1328

December 1, 2006

Contact
County
Emergency Management Director
Address
City, MN Zip Code

Contact:

The Region Five Development Commission in cooperation with Morrison County has developed an All Hazard Mitigation Plan for the County. The Morrison County Board has approved the Plan and is currently pending approval by the Federal Emergency Management Agency (FEMA). FEMA plan review staff has made full approval of the Morrison County Hazard Mitigation Plan contingent upon providing neighboring Counties the opportunity to review and comment on the plan.

We are providing neighboring surrounding counties a copy of the plan for your review and comment. This plan is intended to reduce the threat of natural, human induced and technological hazards through the assessment of these hazards and through the development of an action plan specifying goals, objectives, and strategies. Through this advanced planning, Morrison County will continue to be leader in ensuring the safety and public protection of the entire countywide community. The purpose for the creation of this plan is to:

1. Foster communication between cities, townships, businesses, community organizations, public and private facilities, organizations, and similar entities throughout the county
2. Promote sound public policy designed to protect life and property from natural, human caused and technological hazards
3. Develop and implement educational programs to increase public awareness of the risks associated with all hazards
4. Provide for a safer and more enjoyable countywide community

At this time, the Region Five Development Commission hereby requests comments, support and input from you County. If you have any questions or written comments regarding this plan, please address them to me at the above address or via email at cetzler@regionfive.org by January 12, 2007.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Etzler".

Chris Etzler
Transportation Coordinator/
Hazard Mitigation Project Lead