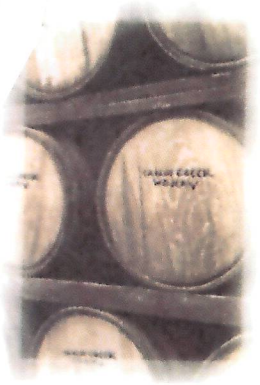


Carlos Creek Winery

February 8, 2002

Bureau of Alcohol, Tobacco, and Firearms
Regulations Division
650 Massachusetts Avenue
Washington, D.C. 20226

RE: Viticultural Area Establishment

Carlos Creek Winery would like to apply for a grape growing area designation as a viticultural area.

As you can clearly see from the USDA-NRCS office email (Exhibit 3). The Alexandria Lakes Viticultural Area has features that produce a microclimate with slightly more humidity and slightly lower average temperatures during the summer nights which of course is preferred for grape growing. The soils have been developed from the woodland environment and glacial drift soils, which again permit excellent drainage for the grapes. The microclimate created by the proximity to the lakes and the protection from widespread prairie fires helped to promote the forested environment. This can be seen very clearly in Exhibit 3 B-J.

The three dominant soils are Dorset, Shooker, and Nebish. They have been developed with the recycling of bases function as evidenced by A2 or E horizons being present in soil profiles. These soil types are more deeply leached of calcium carbonates, are more acid in pH, and have stronger soil structure in the subsoil than soils developed under prairie vegetation for the most part. The soils in the viticultural area show evidence of this.

1. The proposed name of the viticultural area is Alexandria Lakes Viticultural Area. Evidence that the area is known by the proposed name is attached as Exhibit 1-A and Exhibit 1-B.

2. Historical or current evidence that the proposed boundaries of the viticultural area are correct and are attached as Exhibit 2

6693 County Road 34 NW • Alexandria, MN 56308
Tel: (320)846-5443 • Fax: (320)763-9290
E-Mail: ccwinery@carloscreekwinery.com
Website: www.carloscreekwinery.com

3. Evidence that the geographical features of the area produce growing conditions which distinguish the proposed area from surrounding areas are attached at Exhibit 3A-3J.

4. A narrative description of the boundaries based on features, which can be found on United States Geological Survey (U.S.G.S.) maps of the largest applicable scale are attached as Exhibit 4.

5. Copies of the appropriate U.S.G.S. Maps with the boundaries marked in any prominent color are attached at Exhibit 5A, Exhibit 5B, Exhibit 5C, and Exhibit 5D.

Any questions you may have regarding this petition may be directed to me at 320-763-4649.

Sincerely,
CARLOS CREEK WINERY

[redacted]

Robert G. Johnson
Executive Director

Enclosures

 Exhibit 1A

STATE OF MINNESOTA

SECRETARY OF STATE CERTIFICATE OF ASSUMED NAME

Minnesota Statutes Chapter 333

Read the directions on reverse side before completing.

All information on this form is public information.

To expedite the return of your documents, please submit a stamped self-addressed envelope.
PLEASE TYPE OR PRINT LEGIBLY IN BLACK INK.

Secretary of State Information

FILED-MINNESOTA SECRETARY OF STATE
0148888 3176

#3

The filing of an assumed name does not protect a user's exclusive rights to that name. The filing is required as a consumer protection, in order to enable consumers to be able to identify the true owner of a business.

1. State the exact assumed name under which the business is or will be conducted: (one business name per application)

   Alexandria Lakes Area Chamber of Commerce M

2. State the address of the principal place of business. A complete street address or rural route and rural route box number is required; *the address cannot be a P.O.Box.*

206 Broadway	Alexandria,	MN	56308
Street	City	State	Zip code

3. List the name and complete street address of all persons conducting business under the above Assumed Name. Attach additional sheet(s) if necessary. If the business owner is a corporation, provide the legal corporate name and registered office address of the corporation.

Name *(please print)*	Street	City	State	Zip
Alexandria Lakes Area Chamber of Commerce, INC	206 Broadway	Alexandria,	MN	56308

4. List the Standard Industrial Code (SIC) that most accurately describes the nature of the business operating under this name 99. Select one of the 2-digit SIC Codes listed on the reverse side of this form.

5. I certify that I am authorized to sign this certificate and I further certify that I understand that by signing this certificate, I am subject to the penalties of perjury as set forth in *Minnesota Statutes section 609.48* as if I had signed this certificate under oath.

[redacted]
Signature (ONLY one person listed in #3 is required to sign.)

8/15/94
Date

McRay C. Bryant - Executive Director
Print Name and Title

McRay C. Bryant
Contact Person

[redacted]
Phone Number

05920807 Rev. 2/93

027323

 Exhibit 1B

Assumed name

Publish August 19, 26, 1994
CERTIFICATE OF ASSUMED NAME
STATE OF MINNESOTA

State the exact assumed name under which the business is or will be conducted: Alexandria Lakes Area Chamber of Commerce.

State the address of the principal place of business: 206 Broadway, Alexandria, MN 56308.

List the name and complete street address of all persons conducting business under the above Assumed Name. Alexandria Lakes Area Chamber of Commerce, 206 Broadway, Alexandria, MN 56308.

I certify that I am authorized to sign this certificate and I further certify that I understand that by signing this certificate, I am subject to the penalties of perjury as set forth in Minnesota Statutes section 609.48 as if I had signed this certificate under oath.

Dated August 15, 1994.

/s/McRay C. Bryant,
Executive Director

592

STATE OF MINNESOTA)
County of Douglas) ss.

Jon O. Haaven, being duly sworn, on oath says that he is the publisher or authorized agent and employee of the publisher of the newspaper known as The Echo-Press and has full knowledge of the facts which are stated below:

(A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper, as provided by Minnesota Statute 331A.02, 331A.07, and other applicable laws, as amended.

(B) The printed **Certificate of Assumed Name, State of Minnesota: Alexandria Lakes Area Chamber of Commerce** which is attached was cut from the columns of said newspaper, and was printed and published for two consecutive weeks; it was first published on **Friday, the 19th day of August, 1994** and was thereafter printed and published on every **Friday** to and including **Friday, the 26th day of August, 1994** and printed below is a copy of the lower case alphabet from A to Z, both inclusive, which is hereby acknowledged as being the size and kind of type used in the composition and publication of the notice:

abcdefghijklmnopqrstuvwxyz

BY: [redacted]

TITLE: President/General Manager

Subscribed and sworn to before me on
this **26th day of August, 1994**.

[redacted]

Notary Public

HELEN M. KUBA
NOTARY PUBLIC - MINNESOTA
DOUGLAS COUNTY
My Comm. Exp. Jan. 31, 2000

RATE INFORMATION

(1) Lowest classified rate paid by commercial users for comparable space — $ 18.45 (Line, word, or inch rate)

(2) Maximum rate allowed by law for the above matter — $ 18.45 (Line, word, or inch rate)

(3) Rate actually charged for the above matter — $ 6.20 (Line, word, or inch rate)

Exhibit 2

LAND ATLAS & PLAT BOOK

DOUGLAS COUNTY

MINNESOTA

1993

8th Edition

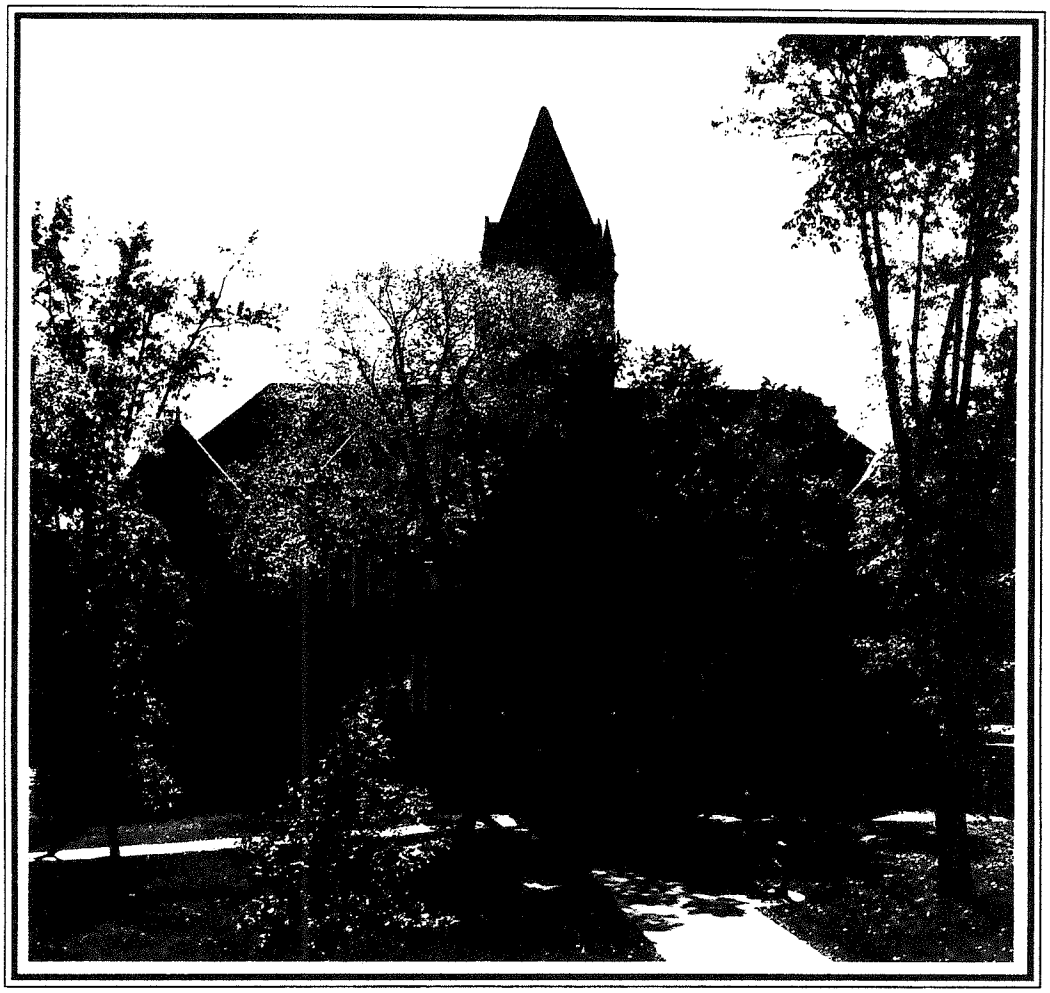


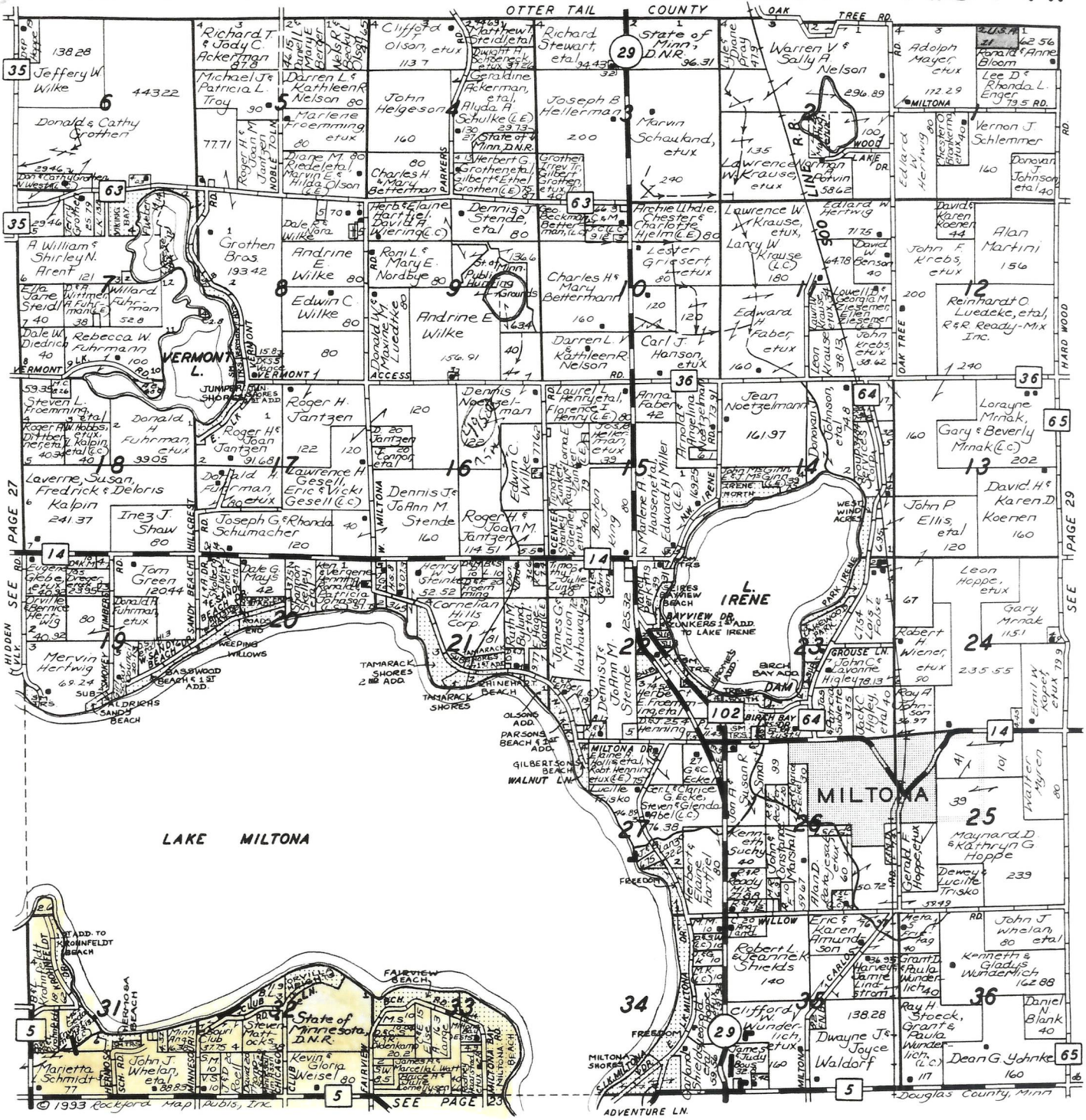
Photo Courtesy of Yerka Studio, 610 Broadway, Alexandria, Minnesota 56308

Includes Full Color County Recreation Map

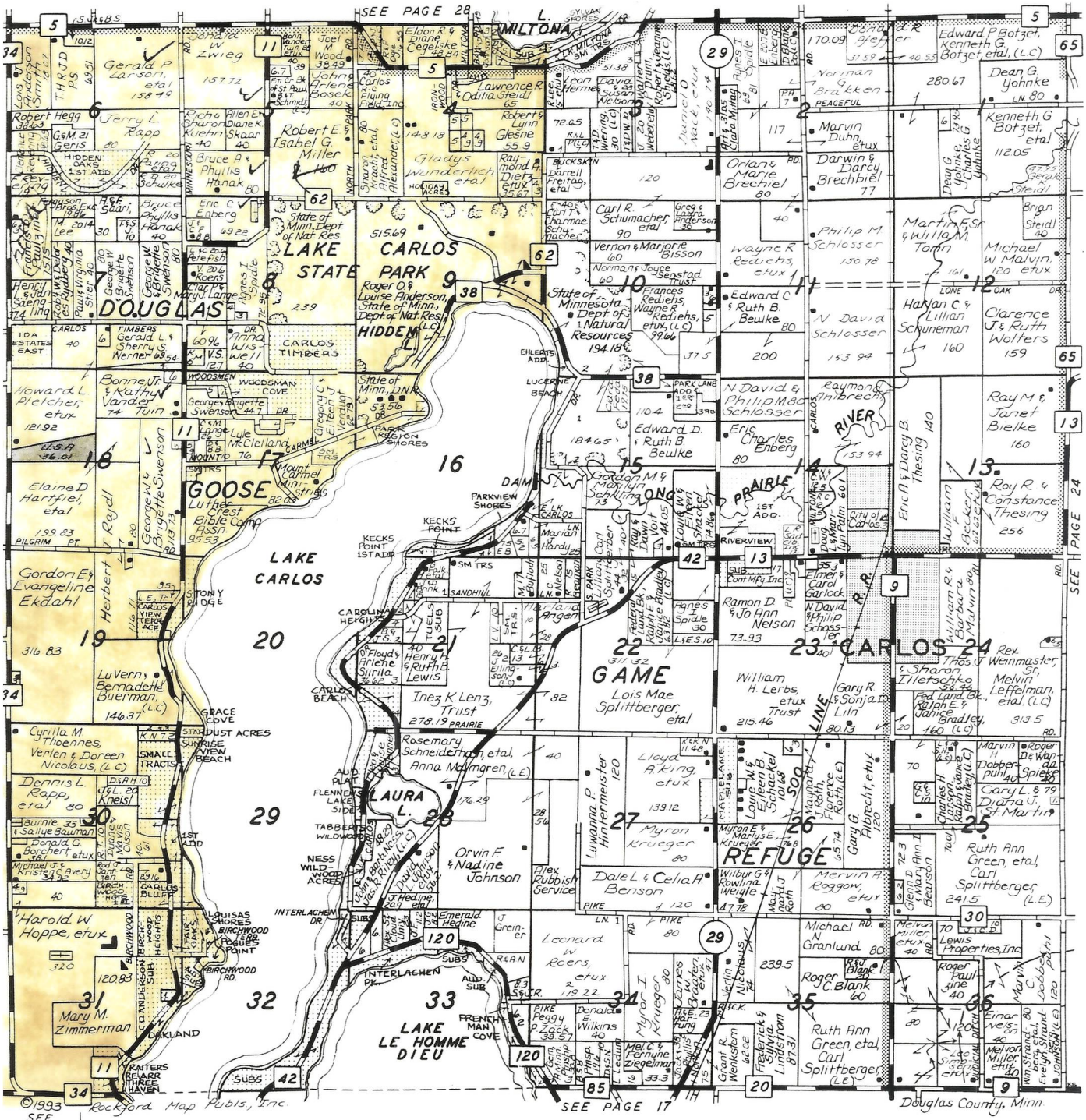
Published by
ROCKFORD MAP PUBLISHERS, Inc.
4525 Forest View Avenue, P.O. Box 6126
Rockford, Illinois 61125

Distributed by
DOUGLAS COUNTY
Courthouse - 305 Eighth Avenue West
Alexandria, Minnesota 56308-1793

MILTONA T. 130N.–R.37W.



CARLOS T. 129N.–R.37W.



IDA

T.129N.–R.38W.

LA GRAND T. 128 N. - R.38 W.

Exhibit 3A

Subject: Carlos Winery property
Date: Fri, 01 Feb 2002 08:03:22 -0600
From: Mike Lieser <mike.lieser@mn.usda.gov>
Organization: USDA-NRCS
To: "Dennis.Miller" <Dennis.Miller@mn.usda.gov>

Dennis: As requested a brief possible explanation, soils-wise, for the unique location characteristics of the Winery Parcel.

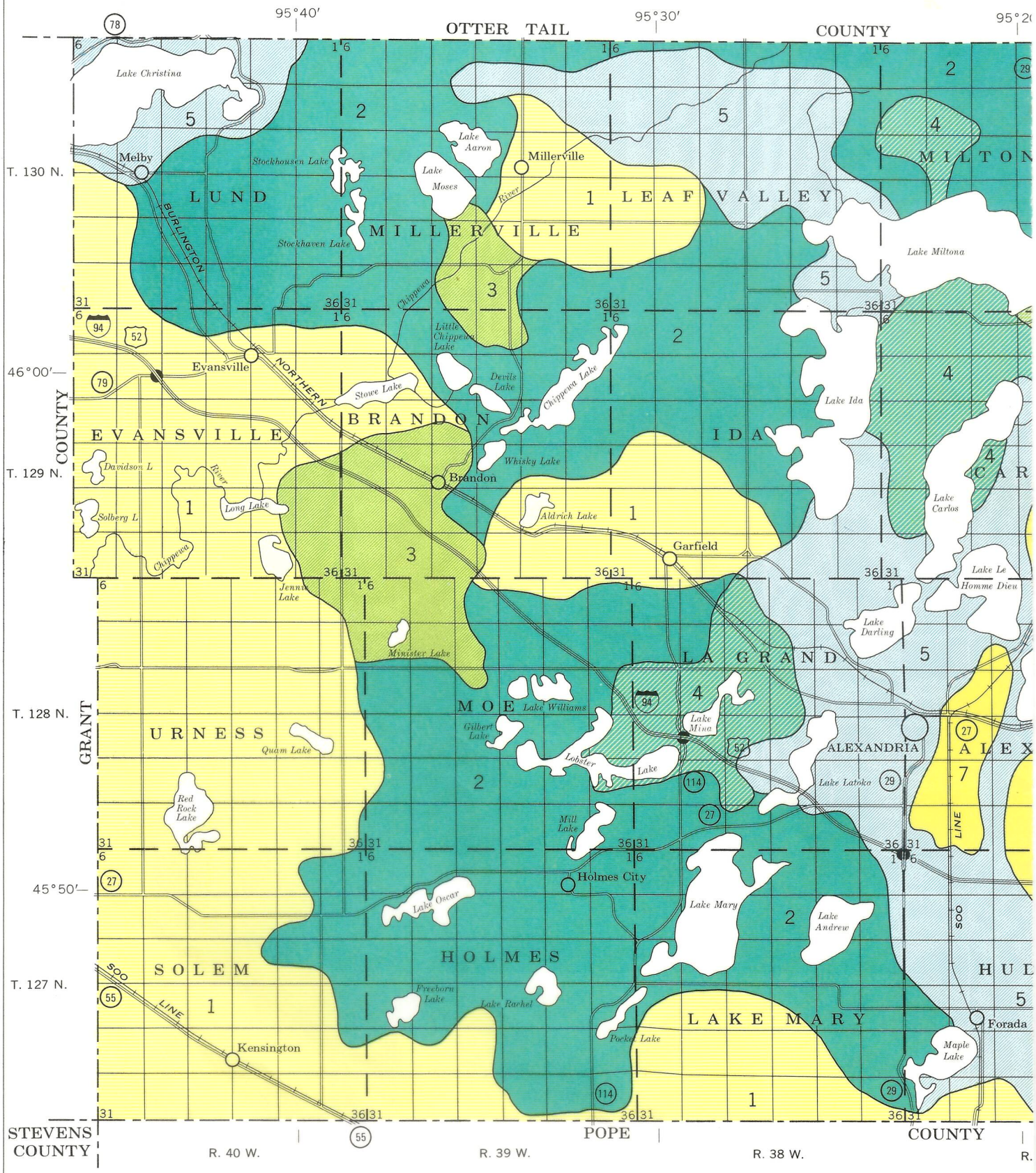
The location N1/2 of the N1/2 of Sec.30 Carlos Twp. and the NE1/4 of Sec. 25 Ida Twp. in Douglas county, Minnesota is in the midst of good-sized lakes. This location can produce a microclimate with slightly more humidity and slightly lower average temperatures. The soils in the location help bear this out. The predominant soils mapped here, as shown in the published Douglas County Soil Survey Report are; Dorset, Shooker and Nebish. These soils developed under a woodland or semi-woodland environment. The microclimate created by the proximity to the lakes and the protection from widespread prairie fires helped promote the forested environment.

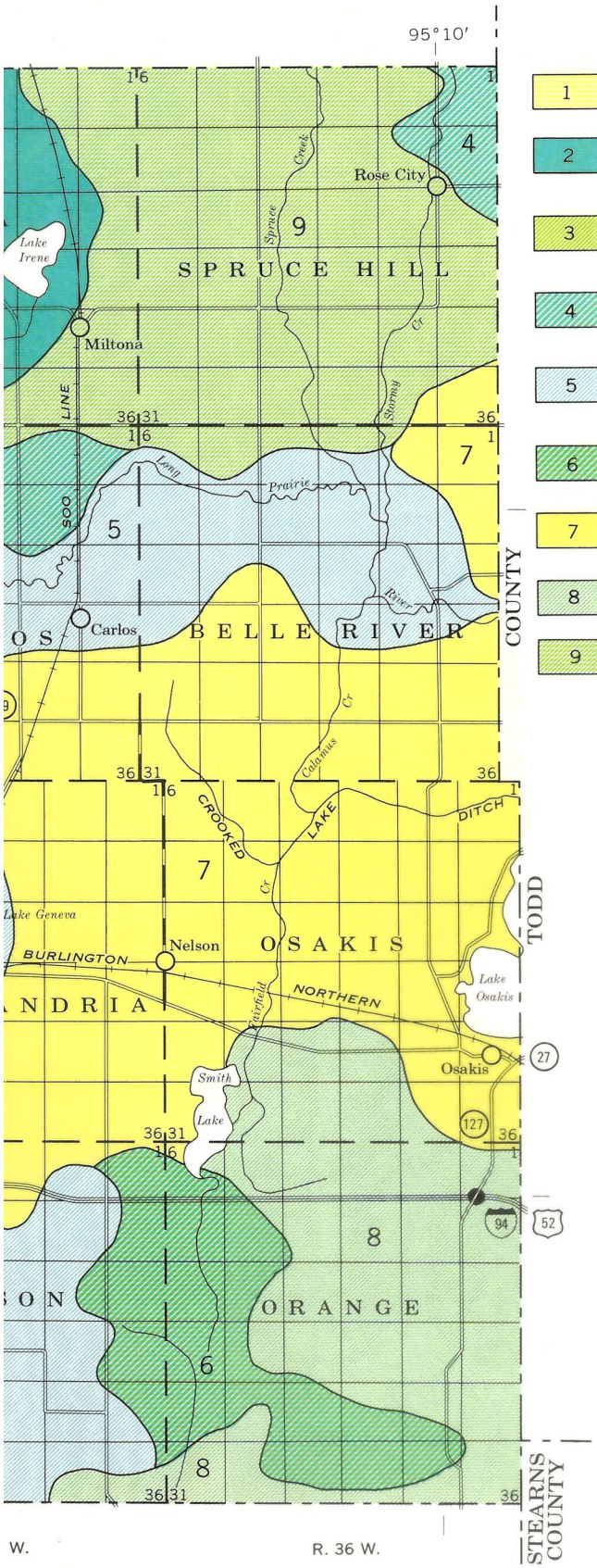
The dominant 3 soils; Dorset, Shooker and Nebish developed with the recycling of bases function as evidenced by A2 or E horizons being present in soil profiles. These soils show evidence of that. These soil types are more deeply leached of calcium carbonates, are more acid in PH and have stronger soil structure in the subsoil than soils developed under prairie vegetation for the most part.

These factors contribute to create a uniqueness for the location.

Mike
--
Mike Lieser
Resource Soil Scientist
USDA-NRCS
413 W. Stanton Ave.
Fergus Falls, MN 56537
Email: Mike.Lieser@mn.usda.gov
Tel: 218.736.5445

Mike.Lieser <Mike.Lieser@mn.usda.gov>


95°40′
95°30′
OTTER TAIL COUNTY
Lake Christina
Melby
Stockhousen Lake
Lake Aaron
Millerville
Lake Moses
LUND
LEAF VALLEY
MILLERVILLE
Stockhaven Lake
BURLINGTON NORTHERN
Lake Miltona
MILTON
T. 130 N.
Chippewa River
Little Chippewa Lake
Evansville
46°00′
Devils Lake
Chippewa Lake
Stowe Lake
BRANDON
IDA
Lake Ida
EVANSVILLE
COUNTY
Davidson L
Whisky Lake
Brandon
T. 129 N.
Solberg L
Long Lake
Aldrich Lake
Garfield
Lake Carlos
Jennie Lake
Lake Le Homme Dieu
Lake Darling
Minister Lake
LA GRAND
GRANT
T. 128 N.
MOE
Lake Williams
Gilbert Lake
Lake Mina
URNESS
Quam Lake
ALEXANDRIA
Lake Latoka
Lobster Lake
Red Rock Lake
Mill Lake
SOO LINE
Holmes City
45°50′
Lake Oscar
Lake Mary
Lake Andrew
HOLMES
SOLEM
T. 127 N.
Freeborn Lake
Lake Rachel
LAKE MARY
Forada
Pocket Lake
Maple Lake
Kensington
STEVENS COUNTY
POPE COUNTY
R. 40 W.
R. 39 W.
R. 38 W.



SOIL ASSOCIATIONS

1 — Barnes-Langhei association: Well-drained and somewhat excessively drained, undulating to very steep soils formed in loamy glacial till

2 — Waukon-Flom association: Well-drained and poorly drained, nearly level to steep soils formed in loamy glacial till

3 — Sinai-Fulda association: Moderately well drained and poorly drained, nearly level to undulating soils formed in clayey glacial till or clayey lacustrine deposits

4 — Nebish-Beltrami association: Well drained and moderately well drained, nearly level to steep soils formed in loamy glacial till

5 — Arvilla-Sverdrup association: Somewhat excessively drained, nearly level to rolling soils formed in dominantly loamy material over sand and gravel

6 — Forada-Arveson association: Poorly drained, nearly level soils formed in loamy material over sand and gravel

7 — Waukon-Gonvick association: Well drained and moderately well drained, nearly level to hilly soils formed in loamy glacial till

8 — Clarion-Flom association: Well-drained and poorly drained, nearly level to rolling soils formed in loamy glacial till

9 — Dorset-Sioux association: Well-drained to excessively drained, nearly level to very steep soils formed in loamy material and in sand and gravel

Compiled 1972

N

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MINNESOTA AGRICULTURAL EXPERIMENT STATION

GENERAL SOIL MAP

DOUGLAS COUNTY, MINNESOTA

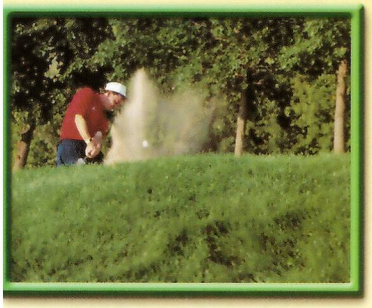
Scale 1:190 080

1 0 1 2 3 4 Miles

Each area outlined on this map consists of more than one kind of soil. The map is thus meant for general planning rather than a basis for decisions on the use of specific tracts.

Alexandria Lakes Area...

Minnesota's Affordable Golf Destination



1 Arrowwood Golf Course

(at Arrowwood - A Radisson Resort)
Arrowwood Drive • Alexandria, MN
320-762-8337
www.radisson.com\alexandriamn
Open to the public. Scenic setting with lake view. Cart & club rental. Call for tee time.
18 holes • Par 70 • 5336 yards

2 Geneva Golf Club

3 miles east on Hwy 27, left 1 mile on Liberty Road • Alexandria, MN
320-762-7089
www.genevagolfclub.com
Joel Goldstrand Championship Golf Course. MGA rated 74.2, 131 slope. Full bar and grill. Five sets of tees. Driving Range.
18 holes • Par 72 • 7092 yards

3 Greystone Golf Club

1.5 miles N of Sauk Centre on Hwy 71
320-351-4653
www.greystonegolf.com
Tom Lehman Signature Golf Course. Open to the public. Driving range. Full clubhouse facilities. Four sets of tees. (5,395 to 7,059 yards)
18 holes • Par 72 • 7059 yards

4 Pezhekee Golf Course

(at Peters' Sunset Beach Resort)
20000 S. Lakeshore Dr. • Glenwood, MN
800-356-8654
www.petersresort.com
One of Minnesota's finest golf courses. Challenging 18 holes, scenic view, suspension bridges and wildflowers. Open to the public.
18 holes • Par 72 • 6404 yards

Dining In the Alexandria Lakes Area

Adventures Bar & Night Club
I-94 & Hwy 29 S.
763-6577
Join us at Adventures for "Tropic Night," "BONE Night," and "Mental Health Hour!"
Live DJ Music almost every night.
New appetizer menu.

Angelina's Restaurant
1215 Hwy 29 N.
762-1324
Family dining with a full American menu featuring steak, chicken, seafood, spaghetti & pizza.
Nightly specials and a Sunday buffet.
Beer & Wine available.

Bayfield's Bake Shop & Grill
Viking Plaza Mall
762-2839
We serve freshly made sandwiches, salads and soups. Many varieties of homemade pies, ice cream, bars, rolls and cookies!
Conveniently located in the Viking Plaza Mall!

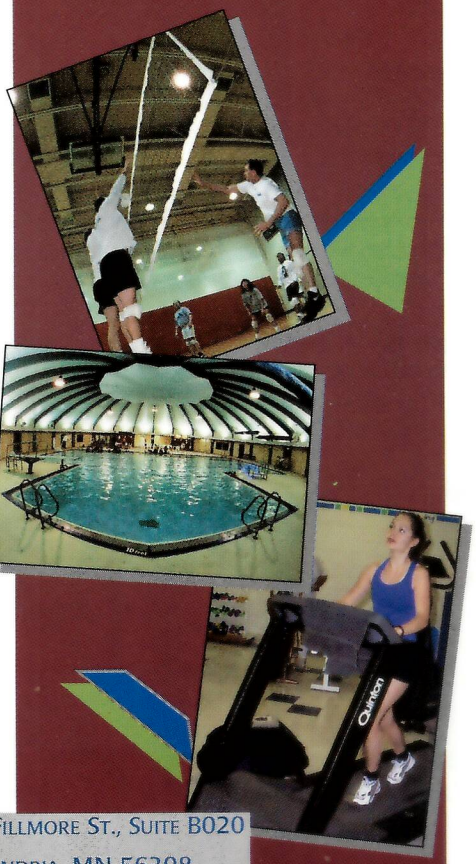
Bug-A-Boo Bay
2800 N Nokomis NE
846-1122
Welcome to Alexandria and Bug-A-Boo Bay . . .
Island Paradise. Relax & enjoy our waterfront setting while enjoying palate pleasing Caribbean foods that explode with flavor. Visit the fine restaurants Alexandria has to offer, but when it's time to kick it up a notch and experience something totally unique . . take a trip to the islands via Bug-A-Boo Bay.

Burger King
303 30th Ave
320-762-0530
Breakfast 6:30-10:30 am
Open daily with indoor playland.
Fastest drive-thru in town!

Lakes Area Recreation

Programs and Facilities

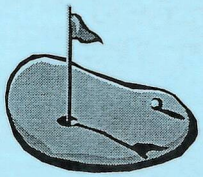
THE BENEFITS ARE ENDLESS!



720 Fillmore St., Suite B020
Alexandria, MN 56308
Phone (320) 762-2868
Hotline (320) 762-3010

Alexandria Lakes Area

Golf



Alexandria Lakes Area

Activities &

Entertainment

Airplane Rides

Alex Aviation @ Chandler Field 762-2111
Airplane Rides over the Lakes Area

Amusement Parks

Casey's Amusement Park 763-7576
1305 Nokomis Street
Go-Karts, Nas-Karts, Kiddy Karts, Mini Golf, Batting Cages, Water Wars and Bumper Boats.

Go-Fore Golf
4304 Dakota S. (Behind Target) 763-5191
Go-Karts, Kiddy Karts, Mini Golf and Driving Range.

Bike Rentals

Radisson Arrowwood Resort 762-1124

Bingo

Eagles Club– Thurs 7:30pm; Saturdays 3:00pm
Senior Citizen's Center– Tues 7:30pm
VFW Wednesday 7:30pm

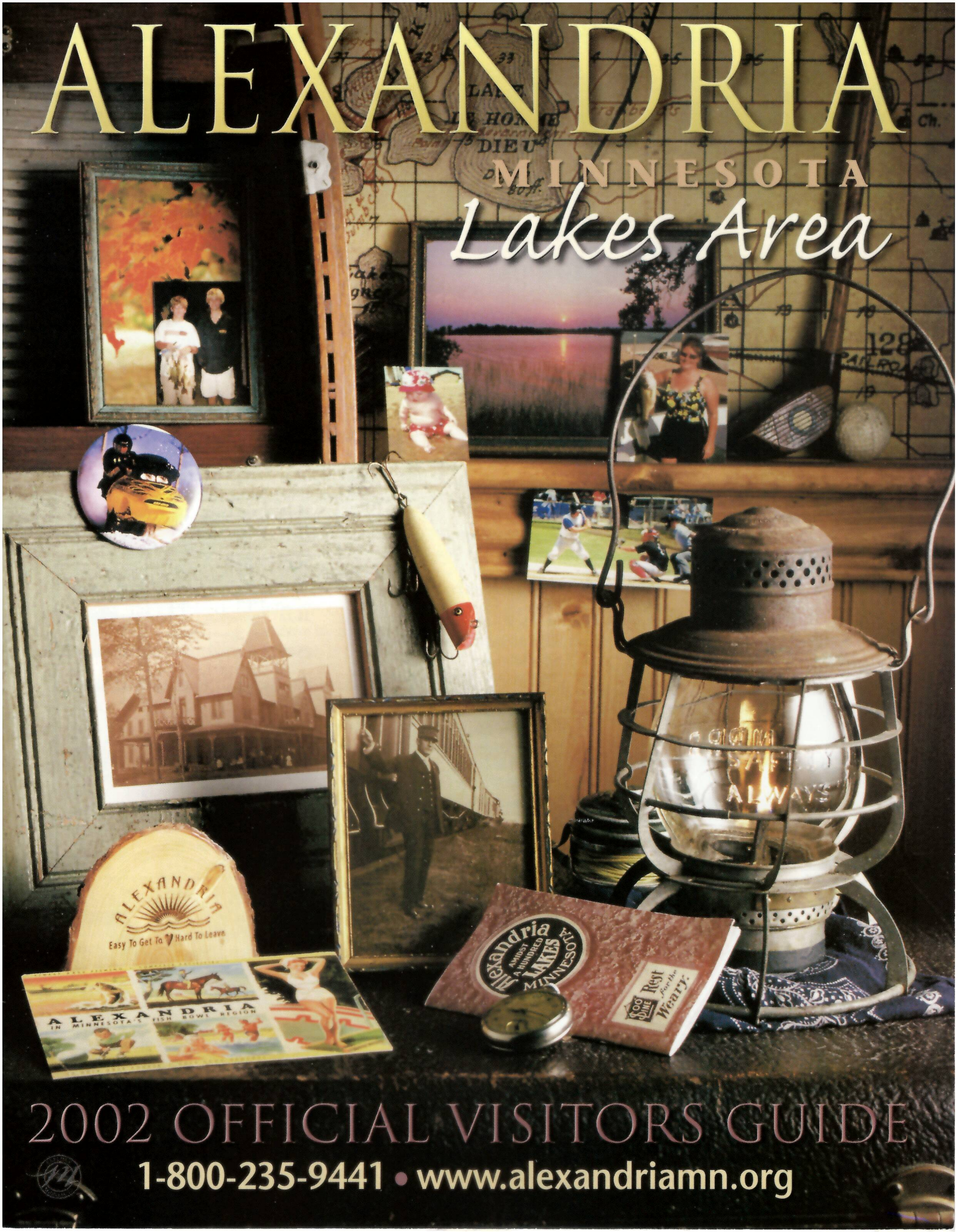
LAKES AREA CLIPPER

COUPONS • COUPONS • COUPONS • COUPONS

ALEXANDRIA

MINNESOTA

Lakes Area



2002 OFFICIAL VISITORS GUIDE

1-800-235-9441 • www.alexandriamn.org

Exhibit 3B

OIL CONSERVATION SERVICE

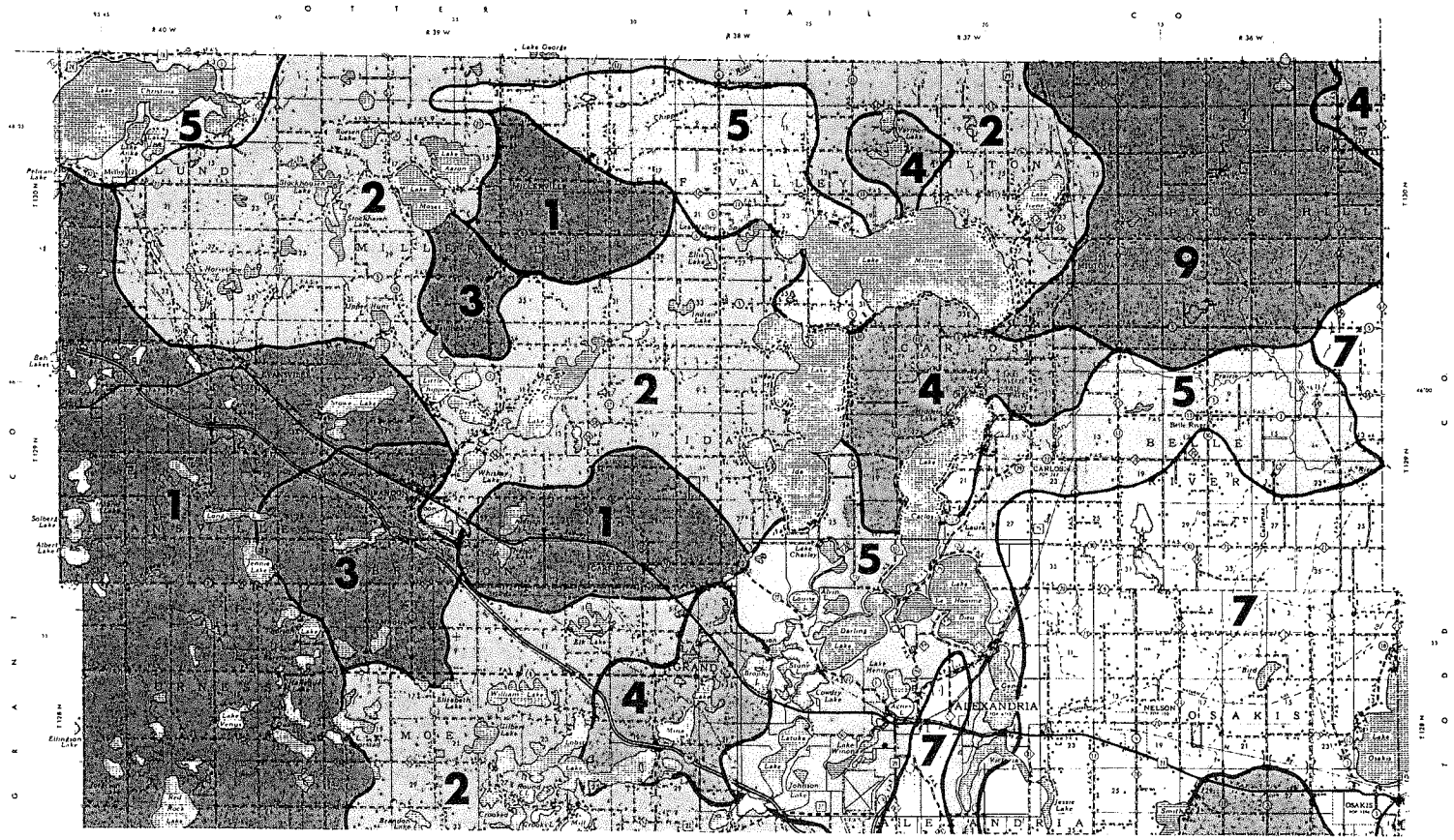
Prepared by
Department of Agriculture
il Conservation Service
February 1974

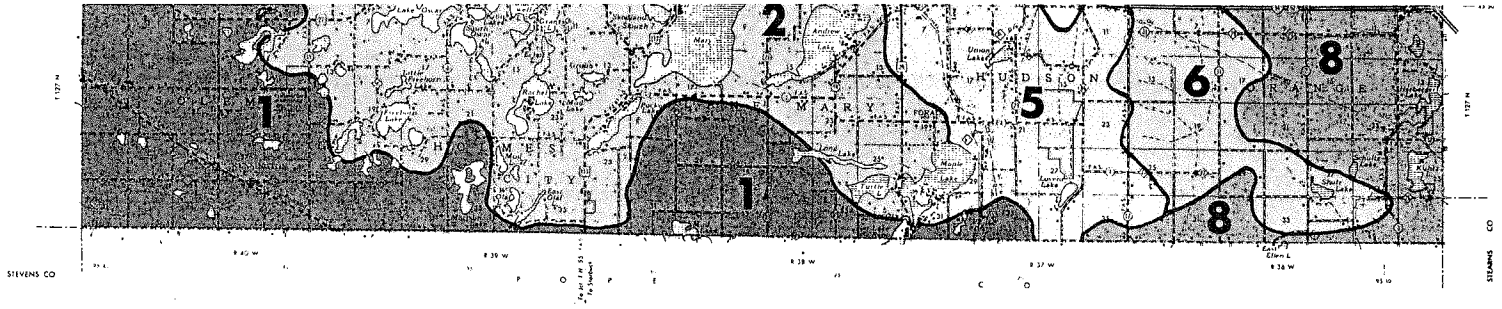
GENERAL SOIL MAP OF DOUGLAS COUNTY, MINNESOTA

(A GENERALIZED MAP SHOWING MAJOR SOIL AREAS, INCLUDING GENERALIZED DESCRIPTIONS OF THE SOILS AND THEIR ESTIMATED LIMITATIONS OR SUITABILITY FOR SELECTED USES.)

SOILS GROW OUR FOOD AND FIBER. THEY SUPPORT OUR BUILDINGS AND FILTER IMPURITIES FROM OUR WATER. SOME SOILS PERFORM WELL AND SOME NOT SO WELL FOR ONE OR MORE OF THESE USES. THE DOUGLAS COUNTY GENERAL SOIL MAP WILL HELP YOU LOCATE AREAS OF SOILS SUITABLE FOR A PARTICULAR USE.

ON THE DOUGLAS COUNTY GENERAL SOIL MAP ARE 9 MAIN PATTERNS OF SOILS CALLED SOIL ASSOCIATIONS. SOME SOILS MAY BE IN MORE THAN ONE ASSOCIATION. EACH ASSOCIATION CONTAINS A FEW MAJOR SOILS AND SEVERAL MINOR SOILS. THE MAJOR SOILS ARE USED TO NAME THE ASSOCIATIONS. SOILS IN AN ASSOCIATION DIFFER IN SOME PROPERTIES, SUCH AS DRAINAGE, SLOPE, TEXTURE, OR SURFACE COLOR. FOR THESE REASONS, A GENERAL SOIL MAP DOES NOT SHOW THE KIND OF SOIL AT A SPECIFIC PLACE. FOR INFORMATION ABOUT SMALL AREAS, SUCH AS A FIELD, A DETAILED SOIL MAP IS NEEDED. CONTACT THE DOUGLAS COUNTY SOIL AND WATER CONSERVATION DISTRICT OFFICE, ALEXANDRIA, MINNESOTA.





SCALE 1 / 200,000

SCALE 1 0 1 2 3 4 5 MILES

POLYCONIC PROJECTION

N

LEGEND FOR SOIL ASSOCIATIONS OF DOUGLAS COUNTY, MINNESOTA

1 Barnes-Langhei Association: Deep, well and somewhat excessively drained, undulating to very steep soils formed in loamy glacial till.

2 Waukon-Flom Association: Deep, well to poorly drained, nearly level to steep soils formed in glacial till.

3 Sinai-Fulda Association: Deep, well to poorly drained, nearly level to rolling soils formed in clayey glacial till or clayey lacustrine deposits.

4 Nebish-Beltrami Association: Deep, well and moderately well-drained, nearly level to steep soils formed in loamy glacial till.

5 Arvilla-Sverdrup Association: Deep and shallow, somewhat excessively drained, nearly level to hilly soils formed in sand and gravel.

6 Forada-Arveson Association: Moderately deep and deep, poorly drained, nearly level soils formed in sand and gravel.

7 Waukon-Gonvick Association: Deep, well and moderately well-drained, nearly level to hilly soils formed in loamy glacial till.

8 Clarion-Flom Association: Deep, well and poorly drained, nearly level to rolling soils formed in loamy glacial till.

9 Dorset-Sioux Association: Shallow and very shallow, somewhat excessively and excessively drained, nearly level to very steep soils formed in sand and gravel.

SOIL ASSOCIATIONS OF DOUGLAS COUNTY, MINNESOTA

1 BARNES-LANGHEI ASSOCIATION

The Barnes-Langhei soil association is well and somewhat excessively drained with undulating to very steep slopes. There are many small lakes and numerous small potholes 5 to 15 acres in size. These soils formed in loamy glacial till. This association occupies 20 percent of the county.

Barnes soils make up 35 percent of the association. These well-drained soils are undulating and occur below the steeper Langhei soils. Typically, they have black loam surface layers, dark brown to brown loam subsoil, and light olive brown loam underlying material. Barnes soils are well-suited and used for intensive cropping. The erosion hazard is moderate to severe on the steeper slopes. The main limitation for urban and recreational use is the steepness of slope.

Langhei soils comprise 25 percent of the association. These somewhat excessively drained soils are undulating to very steep. They occur on narrow ridgetops, knolls and knobs, and at the top of side slopes. They have a thin, dark grayish brown loam surface layer and light olive gray loam underlying material. Most areas are cropped similarly to surrounding soils. The erosion hazard is severe on steeper slopes. Response to fertilization is affected by the high concentration of lime near the surface. The main limitation for urban and recreational use is the steepness of slope.

Minor soils make up 40 percent of the association and include Flom, Aastad, Vallers, and Quam soils. The Flom soils occur in the waterways and shallow depressions and are poorly drained. The Aastad soils are level to gently sloping and are moderately well-drained. The Vallers soils are poorly drained and occur as rims around and between potholes. Quam soils are very poorly drained and occur in sloughs and potholes.

Most of the soils in this association are used for crops and pasture. Corn, soybeans, small grains, and hay are the main crops. The undrained marshes and sloughs provide excellent habitat for wetland wildlife. Erosion, runoff, and wetness are the main concerns to farming.

2 WAUKON-FLOM ASSOCIATION

The Waukon-Flom soil association is well to poorly drained with level to steep slopes. There are many lakes, large and small, throughout the association along with numerous small potholes. This association occupies about 31 percent of the county.

Waukon soils comprise 40 percent of the association. These well-drained soils are undulating to steep. They have black to very dark gray loam surface layers, brown sandy clay loam subsoil, and light olive gray loam or sandy loam underlying material. These soils are well-suited and used for intensive cropping. The erosion hazard is moderate to severe. Steepness of slope is the main limiting factor for urban and recreational use.

Flom soils make up 15 percent of the association. They are poorly drained and occur along drainageways and slightly depressed areas. Typically, they have black clay loam surface layers, dark grayish brown clay loam subsoil, and light olive brown loam subsoil. Flom soils are well-suited for intensive cropping if managed properly. Wetness and a high water table are the main agricultural concerns. Severe limitations are placed on Flom soils for urban and recreational uses because of wetness and frost action.

Minor soils make up 45 percent of the association and include the Langhei, Gonvick, Quam, and organic soils. The Langhei soils are somewhat excessively drained and occur on exposed knobs, knolls, and ridges. The Gonvick soils are moderately well-drained and are nearly level. The Quam soils are very poorly drained and occur in depressions. Organic soils are in closed depressions and along streams.

Most of the soils in this association are used for crops, pasture, and woodland. Corn, soybeans, small grains, and hay are the main crops. The woodland areas vary in size and are scattered throughout the association. The marshes provide excellent habitat for wetland wildlife. Erosion, runoff, and wetness are the main concerns to farming.

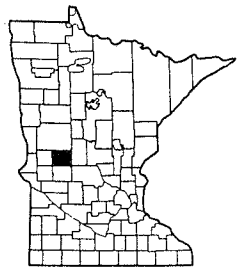
3 SINAI-FULDA ASSOCIATION

The Sinai-Fulda soil association is well to poorly drained with nearly level to rolling slopes. Small potholes occur throughout the association. These soils formed in clayey glacial till or clayey lacustrine sediments. This association comprises 4 percent of the county.

Sinai soils make up 40 percent of the association. These moderately well to well-drained soils are nearly level to rolling. They have black clay surface layers, dark grayish brown clay subsoil, and olive gray clay underlying material. These soils are difficult to work unless a high level of organic matter is maintained and good management is practiced to prevent excessive soil compaction. The high clay content and frost action are severe limitations for urban and recreational uses.

Fulda soils make up 15 percent of the association. They are poorly drained and nearly level. Typically, they have black silty clay surface layers, dark gray to olive gray silty

LOCATION IN MINNESOTA



Minor soils account for 35 percent of the association and include the Shooker, Sioux, and organic soils. The Shooker soils occur in drainageways and slight depressions and are poorly drained. The Sioux soils are excessively drained and are underlain by sand and gravel. The organic soils are very poorly drained and occur in the deep, closed depressions.

Most of the soils in this association are used for crops, pasture, and woodland. The undrained marshes and sloughs provide excellent habitat for wetland wildlife. Corn, soybeans, small grains, and hay are the main crops. The woodland areas vary in size and are scattered throughout the association. Erosion, runoff, wetness, fertility, and soil tilth are the main management concerns.

5 ARVILLA-SVERDRUP ASSOCIATION

The Arvilla-Sverdrup soil association is somewhat excessively drained with nearly level to hilly slopes. There are several large lakes and many small potholes within this association. These soils formed in sand or sand and gravel outwash material. This association makes up 15 percent of the county.

Arvilla soils comprise 30 percent of the association. These soils are somewhat excessively drained. Typically, they have black sandy loam surfaces, brown loam subsoil, and dark yellowish brown sand and gravel underlying material. These soils are droughty, resulting in reduced crop yields most years. The nearly level to gently sloping areas are suited for irrigation. Steepness of slope is the main limiting factor for urban and recreational uses.

Sverdrup soils account for 15 percent of the association. These soils are also excessively drained but are underlain by sand. They have black sandy loam surface layers, brown sandy loam to loamy sand subsoil, and pale brown sand underlying material. These soils are droughty resulting in reduced crop yields most years. These soils are suited for irrigation. Steepness of slope is the main limiting factor for urban and recreational uses.

Minor soils make up 55 percent of the association and include the Sioux, Osakis, Clontarf, and Forada soils. Sioux soils are excessively drained and underlain by sand and gravel. The Osakis and Clontarf soils are moderately well-drained and the Forada soils are poorly drained.

Most of these soils are used for cropland and pasture. Corn, soybeans, small grains, and hay are the main crops. Erosion, droughtiness, and fertility are the main concerns to farming.

6 FORADA-ARVESON ASSOCIATION

The Forada-Arveson soil association is nearly level and poorly drained. Soils formed in sand and sand and gravel outwash material. This association makes up 2 percent of the county.

Forada soils make up 50 percent of the association. They are nearly level and have black sandy loam surface layers, grayish brown sandy loam over loam subsoil, and grayish brown sand and gravel underlying material. Forada soils are suited for all crops common to the county, with adequate drainage. The water table is near the surface in spring and other wet periods. Wetness is the main limiting factor for urban and recreational uses.

Arveson soils make up 15 percent of the association. They are poorly drained, highly calcareous, and underlain by sand. Typically, they have black sandy clay loam over dark gray fine sandy loam surface layers and grayish brown fine sand underlying material. If adequately drained, these soils are suited for most crops common to the county. Response to fertilization is affected by the high concentration of lime in these soils. Wind erosion is a hazard on fields left bare during winter and spring months. Wetness is the main limiting factor for urban and recreational uses.

Minor soils account for 35 percent of the association and include the Dassel, Clontarf, Hantho, and Colvin soils. The Dassel soils are poorly drained and underlain by sand. The Clontarf soils are moderately well-drained and underlain by sand. The Hantho soils are moderately

clay subsoil, and olive gray silty clay loam underlying material. Wetness and compaction are the main agricultural concerns. Wetness and a high clay content give these soils a severe limitation for urban and recreational uses.

Minor soils account for 45 percent of the association. These are the very poorly drained Dovray and organic soils; both occurring in potholes and sloughs.

Most of the association is used for cropland and pasture. Corn, soybeans, small grains, and hay are the main crops. The marshes and potholes provide excellent habitat for wetland wildlife. Erosion, wetness, runoff, and soil compaction are the main management concerns of this association.

4 NEBISH-BELTRAMI ASSOCIATION

The Nebish-Beltrami soil association is well and moderately well-drained with nearly level to steep slopes. These soils developed under hardwood forest in loamy glacial till. The association makes up 5 percent of the county.

Nebish soils comprise 60 percent of the association. These well-drained soils are undulating to steep. Typically they have very dark gray loam over grayish brown sandy loam surface layers, dark yellowish brown sandy clay loam subsoil, and light olive brown loam underlying material. These soils are suited for all crops common to the county. Crops respond well to fertilization and proper management. The main limitation for urban and recreational development is steepness of slope.

Beltrami soils make up 5 percent of the association. They are moderately well-drained and have nearly level to gentle slopes. They have very dark gray loam over grayish brown sandy loam surface layers, olive brown clay loam subsoil, and light olive brown loam underlying material. These soils are suited for all crops common to the area. Crops respond well to fertilization and proper management.

well-drained silty soils, and the Colvin soils are poorly drained silty soils. Most of the soils in this association are used for cropland or pasture. Corn, soybeans, small grains, and hay are the main crops. Wind erosion, wetness, and fertility are the main concerns to farming.

7 WAUKON-GONVICK ASSOCIATION

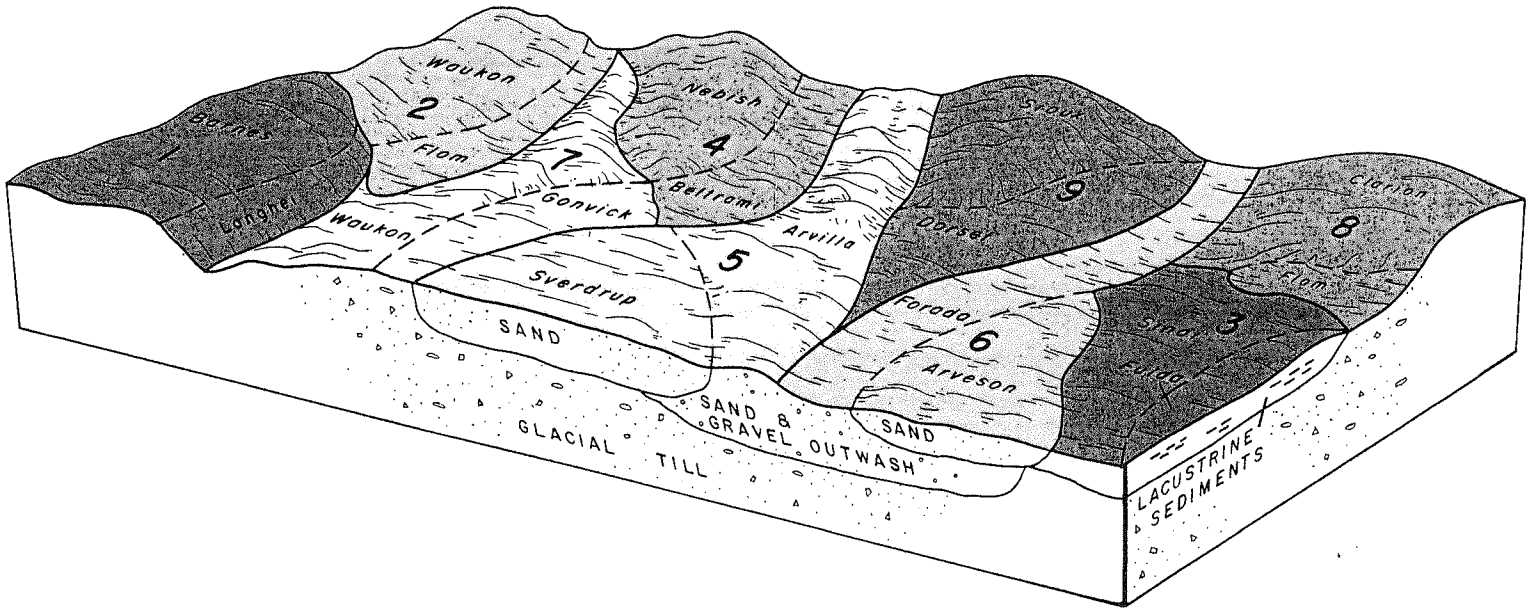
The Waukon-Gonvick soil association is well and moderately well-drained with nearly level to hilly slopes. Potholes and marshes are common throughout the association. These soils formed in loamy glacial till. The association comprises 12 percent of the county.

Waukon soils make up 35 percent of the association. These well-drained soils are undulating to steep. They have black to very dark gray loam surface layers, brown sandy clay loam subsoil, and light olive gray loam or sandy loam underlying material. These soils are well-suited and used for intensive cropping. The erosion hazard is moderate to severe. Steepness of slope is the main limiting factor for urban and recreational uses.

Gonvick soils comprise 25 percent of the association. They are moderately well-drained and have nearly level to gently sloping topography. Typically, they have loam surface layers, brown to olive brown clay loam subsoil, and light olive brown loam underlying material. These soils are well-suited and used for intensive cropping. Shrink-swell potential and wetness are the main limitations for urban and recreational uses.

Minor soils account for 40 percent of the association and include the Flom, Vallers, Quam, and Urness soils. The Flom soils are poorly drained and occur in drainageways and slight depressions. The Vallers soils are poorly drained, calcareous, and occur as rims around and between potholes and sloughs. The Quam and Urness soils are very poorly drained and occur in deep, closed depressions.

Most soils in the association are cropped or pastured. Corn, soybeans, small grains, and hay are the main crops. Erosion, wetness, and runoff are the main concerns to farming.



AGRAM DEPICTS THE LANDSCAPE OF SOIL ASSOCIATIONS IN DOUGLAS COUNTY

SCS-LINCOLN, NEBR. 1974

EXPLANATIONS OF THE SOIL INTERPRETATIONS

The table lists the **SOIL ASSOCIATIONS** and the major **SOIL SERIES** in each soil association. The approximate percent of the association of each major soil is given. The percentage of minor soils is a total of all minor soils in the association. Soil limitations or suitability are rated for selected uses. Slopes of each soil in the association have been considered in the ratings. The limitations for the same soil series in different soil associations may differ because of differences in slope. **ALTHOUGH THE GENERAL SOIL MAP AND TABLE ARE GUIDES FOR EVALUATING THE SOILS, A DETAILED INVESTIGATION OF THE SITE FOR PROPOSED CONSTRUCTION OR USE IS NEEDED. THE SOIL INTERPRETATIONS ARE FOR SOILS IN THE NATURAL STATE AND NOT FOR DISTURBED AREAS.** The soil interpretations are based on evaluations of the material to a depth of 5 feet. Geologic reports may be beneficial for evaluating material below that depth.

Soils rated as **SLIGHT** are relatively free of limitations or limitations are easy to overcome. Soils rated as **MODERATE** have limitations that need to be recognized, but can be overcome with good management and careful design. A **SEVERE** rating indicates the limitations are severe enough to make use questionable. A severe rating does not mean the soil cannot be used for a specific use but that careful planning and design and very good management are needed. In some cases, the limitations may not be economically feasible to correct.

The significance of soil properties affecting the use of the soils in the table will differ depending on the particular use.

Suitability as a Source of Roadfill is based on characteristics of a soil that reflect how well a soil performs after it is removed from its original location and is placed in a road embankment elsewhere. It is also based on soil characteristics that determine the ease or difficulty in getting the soil out. Some of the characteristics used are shrink-swell potential, susceptibility to frost action, slope, stoniness, rockiness, and soil drainage class.

Suitability as a Source of Sand and Gravel is based on the probability that soils generally contain sizeable quantities of these materials. Soft materials, such as shale or siltstone, are not considered sand and gravel for these interpretations. To qualify as a good or fair probable source, the layer of sand or gravel must be at least 3 feet thick. The entire thickness need not be in the uppermost 5 or 6 feet if it is known through observations of deep cuts or from other evidence including geologic data, that the sand or gravel extends downward for several feet. The main purpose of the ratings is to guide readers to local sources. These materials, used in great quantity in many kinds of construction work, are heavy and bulky and are expensive to transport. Information on where to look for nearest sources can result in substantial savings.

Suitability as a Source of Topsoil is rated mainly on depth, texture, organic matter content, and wetness of the surface layer of undisturbed soil. Topsoil is considered to be used for establishing lawns. A rating of good mear the soil provides a good source of topsoil for removal and transfer to anothe place or it can be used in place.

Septic Tank Absorption Fields are influenced by the ease of downward mov ment of effluent through the soil. Soils with moderately slow or slow perme ability are rated severe. Other soil properties that affect septic tank absor tion fields are flooding hazard, seasonal high water table, topography, ston ness and rockiness, and depth to bedrock or other impervious materials. In some places in Soil Association 4 and all of Soil Associations 5, 6, and 9, there is rapidly permeable sandy or sandy and gravelly material. Ground water contamination from septic tank absorption fields is a definite hazard in these places and special onsite investigations are needed.

Shallow Excavations are made for various uses such as basements for dwell ings, graves in cemeteries, trenches for underground utility lines, sewers, pipelines, and cables. Each use has definite requirements of the soil and though the limitations ratings are highly relevant, they may be insufficient for a particular use. For example, additional interpretations concerning shrink-swell potential and corrosivity are needed for giving ratings for the use of soils for pipelines. Desirable characteristics are good workability, moderate resistance to sloughing, gently slopes, absence of rock outcrops and big stones, and no flooding hazard.

Dwellings with Basements are affected by properties such as susceptibility to frost heave, texture and density of the subsoil and underlying layers, sea sonal high water table, flooding or ponding hazards, slopes as related to cu and fills, land slippage, differential settling of moved material, stoniness o rockiness and depth ot bedrock. This rating is based on the construction o a basement under the dwelling as most permanent homes have in Douglas Co

Local Roads and Streets are rated for those soil features that affect perforn ance for the location of highways and streets. The main factors considerec were depth to water table, susceptibility to frost heave, flooding hazard, hi clay content, and topography which influences the need for cuts and fills, depth to bedrock and presence of stones and boulders, erodibility and presence of springs and seepy areas.

Suitability for Cropping is based on the capability of the soils, when propei managed, to sustain intensive row cropping without risks of serious soil damage. It is affected by many factors such as soil texture, permeability, available water capacity, flooding or ponding hazards, slopes, and erosion hazards. Soils that are naturally wet but which can be or have been improv by supplemental drainage are rated according to their continuing limitation after drainage improvements have been installed.

Camping and Picnic Areas for recreation are subject to heavy foot and some vehicular traffic during the camping and picnicking season. Soils with seasonally high water table at or near the surface, soils that are steep, and soils subject to flooding and ponding are rated severe. Other properties considered are permeability, surface soil texture, stoniness, and topography.

Playgrounds for recreation are highly developed for organized games. They are subject to heavy foot traffic and require a level, stone-free, firm surface with good drainage. Soils that have a seasonally high water table at or near the surface, those subject to flooding or ponding, or those that are strongly sloping to steep are rated severe.

UNDERSTANDING SOILS

Great ice sheets once moved across Douglas County. Acting like giant bulldozers, they scraped and leveled the area they touched. Rocky material was ground into a variable mixture of gravel, sand, silt, and clay and redeposited as "glacial till". During warm periods, the ice front melted as fast as it moved down and piled up materials in morainal ridges of gravelly "glacial drift". Enormous quantities of icy runoff water carried finely ground material into the broad flood plains below the glaciers. When the glaciers receded to the north, soils began to develop on these nearly level to undulating plains underlain by sand and gravel and in other areas of loamy glacial materials.

Soils developed in time and were greatly influenced by the climate and living matter acting on the glacial drift. Water moves through soils in varying amounts. Soils in depressions are flooded with large amounts of water whereas hilltops shed water to lower slopes. As water moves through soils, it dissolves and moves the finer materials to deeper depths. This weathering moves fine size clays into the layer called "subsoils" and soluable minerals may be washed from the surface layer. The kind of vegetation growing on soils influenced the amount of organic matter. "Timber soils" formed under trees are light colored and low in organic matter. "Prairie soils" formed under grass are high in organic matter and are dark colored.

Erosion moves soil materials from uplands to bottomlands where new alluvial soils begin to form. Soils change or "age" slowly.

8 CLARION-FLOM ASSOCIATION

The Clarion-Flom soil association is well to poorly drained and is nearly level to rolling. Soils in this association formed from loamy glacial till. This association makes up 4 percent of the county.

Clarion soils make up 30 percent of the association. These well-drained soils are undulating to rolling. Typically, they have black loam surface layers, brown loam subsoil, and light olive brown loam underlying material. Clarion soils are well-suited and used for intensive cropping. The erosion hazard is moderate to severe on the steeper slopes. Steepness of slope is the main limiting factor for urban and recreational uses.

Flom soils account for 20 percent of the association. These soils are nearly level, occurring in drainageways and slight depressions. Drainage is poor. They have black clay loam surface layers, dark grayish brown clay loam subsoil, and light olive brown loam underlying material. Flom soils are well-suited for cropping if managed properly. Wetness and a high water table are the main agricultural problems. Severe limitations are placed on Flom soils for urban and recreational uses because of wetness and frost action.

Minor soils comprise 50 percent of the association and include the Nicollet, Quam, and Vallers soils. Nicollet soils are moderately well-drained. Vallers soils are poorly drained and occur as rims around and between potholes. Quam soils are very poorly drained and occur in potholes and sloughs.

Most of the soils in this association are used for cropping and pasture. Corn, soybeans, small grains, and hay are the main crops. The undrained marshes provide excellent habitat for wetland wildlife. Erosion, runoff, and wetness are the main concerns to farming.

9 DORSET-SIOUX ASSOCIATION

The Dorset-Sioux soil association is nearly level to very steep and is somewhat excessively to excessively drained. There are also a few lakes and numerous potholes. These soils formed in sand and gravel outwash material. This soil association makes up 7 percent of the county.

Dorset soils comprise 40 percent of the association. They are undulating to rolling and are somewhat excessively drained. Typically, they have black sandy loam surface layers, dark brown sandy loam subsoil, and brown sand and gravel underlying material. These soils are droughty, resulting in reduced crop yields most years. Dorset soils are suited for irrigation. Steepness of slope is the main limiting factor for urban and recreational uses.

Sioux soils account for 20 percent of the association. They are excessively drained and are nearly level to very steep. They have very dark brown loamy coarse sand surface layers and yellowish brown sand and gravel underlying material. Sioux soils are poorly suited for agricultural cropping. The drought hazard is severe. Steepness of slope is the main limiting factor for urban and recreational uses.

Minor soils make up 40 percent of the association. They include the Forada, Marysland, and organic soils. The Forada soils are poorly drained and are underlain by sand and gravel. The Marysland soils are also poorly drained and underlain by sand and gravel but are strongly calcareous. The organic soils are very poorly drained and occur in closed depressions and along streams.

ESTIMATED SOIL LIMITATIO

DOUGL

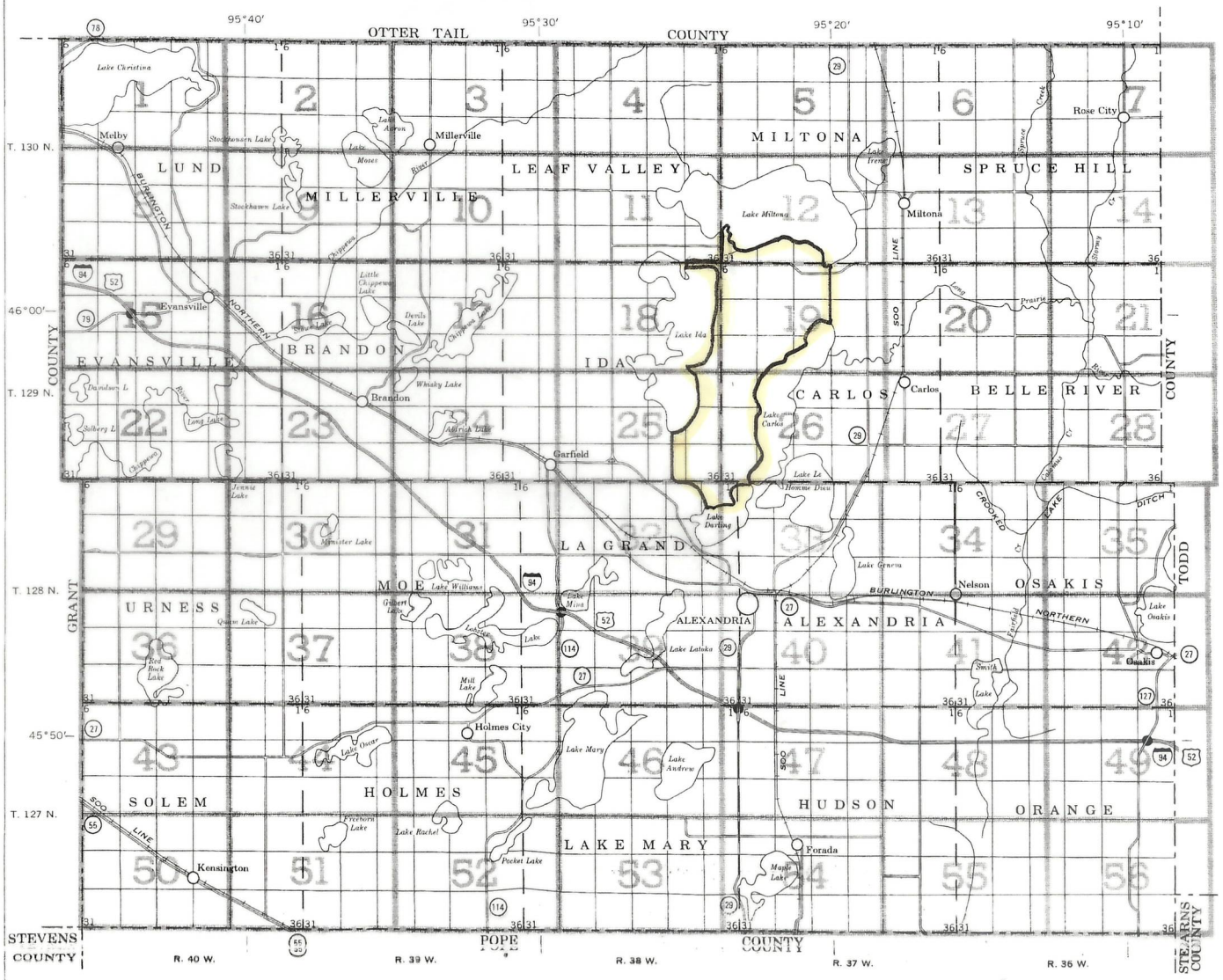
SOIL ASSOCIATION	SOIL SERIES	PERCENT OF SOIL ASSOCIATION	DEPTH TO WATER TABLE	SUITABILITY AS A SOURCE OF:			
				ROADFILL	SAND - GRAVEL	TOPSOIL	SEI ABSORI
1	Barnes Langhei Minor soils	35 25 40	10+ 10+	Fair: Shrink-swell Fair-poor: Slope	Unsuited Unsuited	Fair-poor: Thin Poor: Thin, slope	Slight-sev Slight-sev
2	Waukon Flom Minor soils	40 15 45	10+ 2-5	Fair: shrink-swell Poor: Frost action, wet	Unsuited Unsuited	Poor: Thin, slope Poor: Wet	Slight-sev Severe: We
3	Sinai Fulda Minor soils	40 15 45	8-15 1-4	Poor: Shrink-swell Poor: Shrink-swell, wet	Unsuited Unsuited	Poor: Too clayey Poor: Too clayey, wet	Severe: Pe Severe: Pe
4	Nebish Beltrami Minor soils	60 5 35	10+ 3-8	Fair-poor: Slope Fair: Shrink-swell, wet	Unsuited Unsuited	Poor: Thin, slope Fair: Thin	Slight-sev Moderate:
5	Arvilla Sverdrup Minor soils	30 15 55	10+ 10+	Good Good	Good Good: Sand	Poor: Thin Poor: Thin	* Slight * Slight-mod * Pollution
6	Forada Arveson Minor soils	50 15 35	2-4 1-4	Poor: Wet Poor: Wet	Good: Wet Good: Sand	Poor: Wet Poor: Wet	Severe: W Severe: W
7	Waukon Gonvick Minor soils	35 25 40	10+ 3-8	Fair: Shrink-swell Fair: Shrink-swell, wet	Unsuited Unsuited	Poor: Thin, slope Fair-poor: Thin	Slight-sev Moderate:
8	Clarion Flom Minor soils	30 20 50	10+ 2-5	Fair: Shrink-swell Poor: Frost action, wet	Unsuited Unsuited	Good Poor: Wet	Slight-sev Severe: W
9	Dorset Sioux Minor soils	40 20 40	10+ 10+	Good Good	Good Good	Poor: Thin, fertility Poor: Thin	* Slight * Slight * Pollution

BILITY FOR SELECTED USES

NESOTA

SOIL LIMITATIONS FOR:			SUITABILITY FOR:	SOIL LIMITATIONS FOR:	
LLOW EXCAVATIONS	DWELLINGS WITH BASEMENTS	LOCAL ROADS AND STREETS	CROPPING	CAMPING-PICNIC AREA	PLAYGROUNDS
ght-moderate: Slope derate-severe: Slope	Moderate: Shrink-swell Moderate-severe: Slope	Moderate: Shrink, swell Slight-severe: Slope	Good: Erodible Fair: Erodible	Slight-moderate: Slope Slight-severe: Slope	Slight-severe: Slope Slight-severe: Slope
ght-severe: Slope ere: Wet	Moderate-severe: Slope Severe: Wet	Moderate-severe: Slope Severe: Frost action, wet	Good-poor: Slope Good: Drainage	Slight-severe: Slope Severe: Wet	Slight-severe: Slope Severe: Wet
ere: Too clayey ere: Too clayey, wet	Severe: Too clayey Severe: Too clayey, wet	Severe: Frost action Severe: Frost action, wet	Fair: Too clayey Fair: Drainage	Severe: Too clayey Severe: Too clayey, wet	Severe: Too clayey Severe: Too clayey, wet
ght-severe: Slope derate: Wet	Moderate-severe: Slope Moderate: Wet, shrink-swell	Moderate-severe: Slope Moderate: Shrink-swell	Good-poor: Slope Good: Erodible	Slight-severe: Slope Slight	Slight-severe: Slope Slight
ere: Stability ere: Stability	Slight-moderate: Slope Slight-moderate: Slope	Slight-moderate: Slope Slight-moderate: Slope	Fair: Droughty Fair: Droughty	Slight-moderate: Slope Slight-moderate: Slope	Slight-severe: Slope Slight-severe: Slope
ere: Wet ere: Wet	Severe: Wet Severe: Wet	Severe: Wet Severe: Wet	Good: Drainage Fair: Drainage	Severe: Wet Severe: Wet	Severe: Wet Severe: Wet
ght-severe: Slope derate: Wet	Moderate-severe: Slope Moderate: Wet, shrink-swell	Moderate-severe: Slope Moderate: Shrink-swell	Good-poor: Slope Good: Erodible	Slight-severe: Wet Slight	Slight-severe: Slope Slight
ght-moderate: Slope ere: Wet	Moderate: Shrink-swell Severe: Wet	Moderate: Shrink-swell Severe: Wet	Good: Erodible Good: Drainage	Slight-moderate: Slope Severe: Wet	Slight-severe: Slope Severe: Wet
ere: Stability ere: Stability	Slight-moderate: Slope Slight- severe: Slope	Slight-moderate: Slope Slight-severe: Slope	Fair: Droughty Poor: Droughty	Slight-moderate: Slope Slight-severe: Slope	Slight-severe: Slope Slight-severe: Slope

Exhibit 3C



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E W

S

INDEX TO MAP SHEETS

DOUGLAS COUNTY, MINNESOTA

Scale 1:190 080

1 0 1 2 3 4 Miles

Exhibit 3D

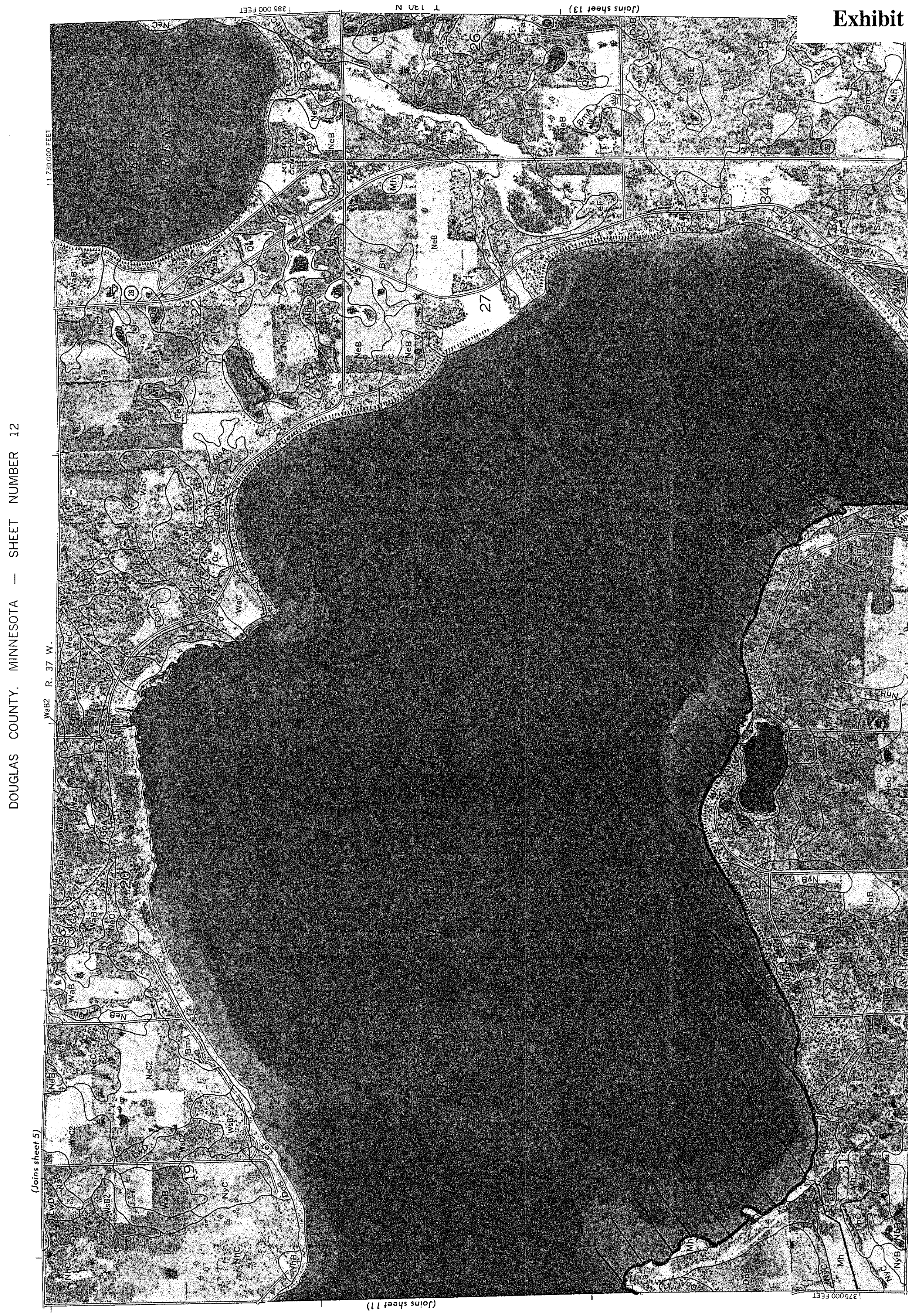
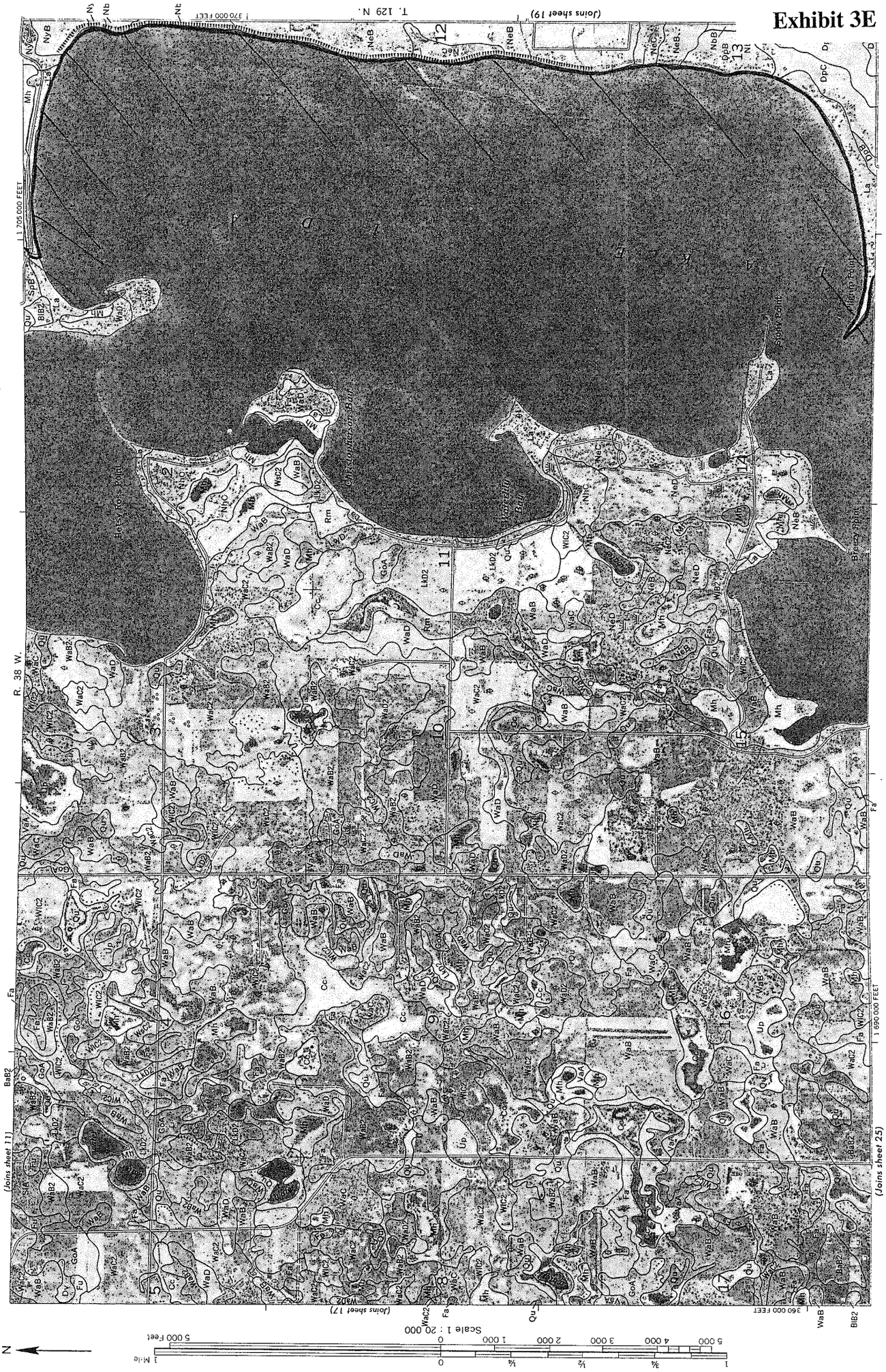

DOUGLAS COUNTY, MINNESOTA — SHEET NUMBER 12
R. 37 W.
T. 130 N.
(Joins sheet 13)
(Joins sheet 11)
(Joins sheet 5)
(Joins sheet 19)
385 000 FEET
375 000 FEET
1 730 000 FEET
1 710 000 FEET
Scale 1 : 20 000
5 000 Feet
1 Mile
12
N

Exhibit 3E



DOUGLAS COUNTY, MINNESOTA — SHEET NUMBER 18

(18)


R. 37 W.
T. 129 N.
1 710 000 FEET
1 730 000 FEET
1 660 000 FEET
370 000 FEET
(Joins sheet 12)
(Joins sheet 18)
(Joins sheet 20)
(Joins sheet 26)
LAKE MILTONA
LAKE CARLOS STATE PARK
LAKE CARLOS
OTTER TAIL RIVER
PRAIRIE
1 Mile
5 000 Feet

Exhibit 1

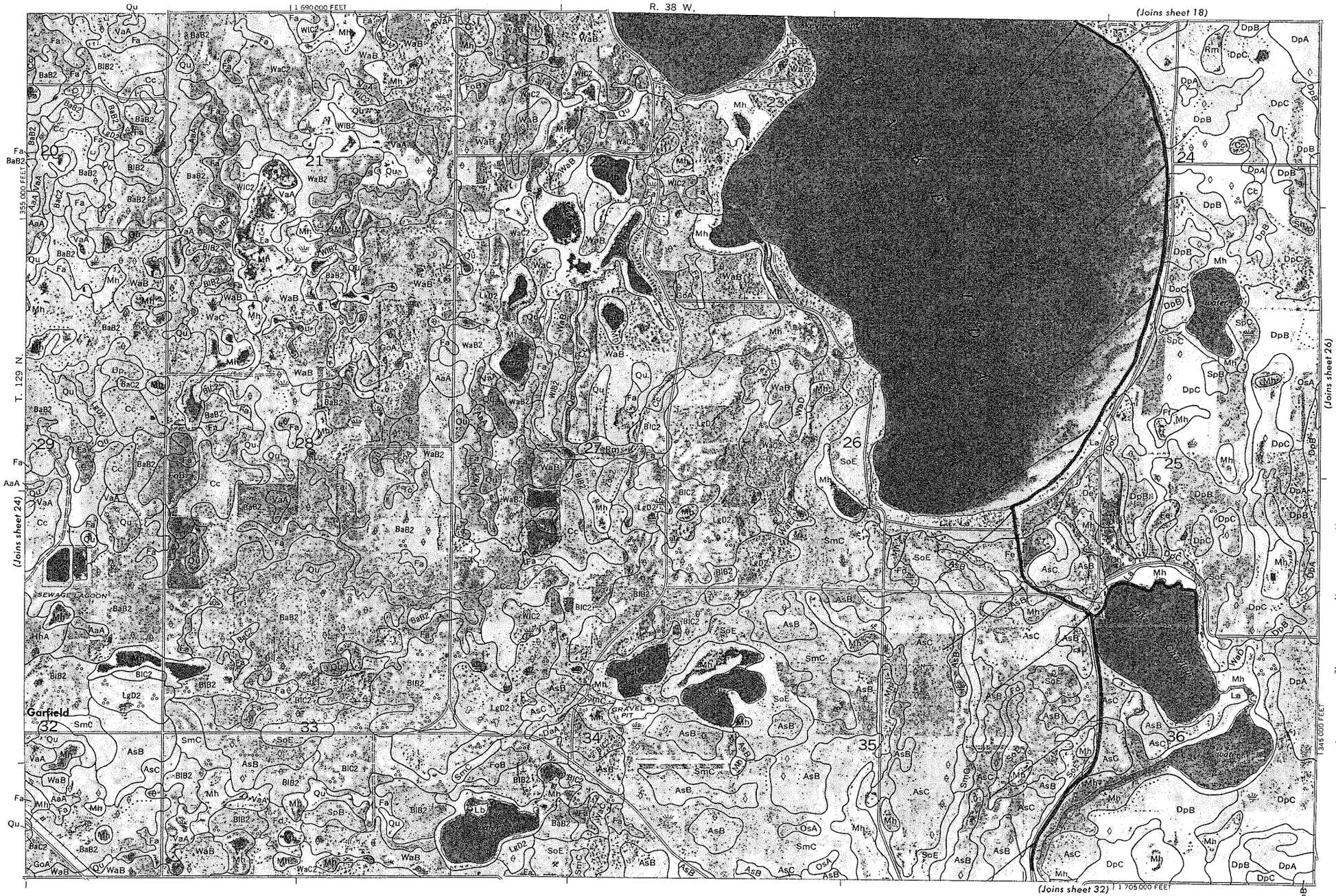
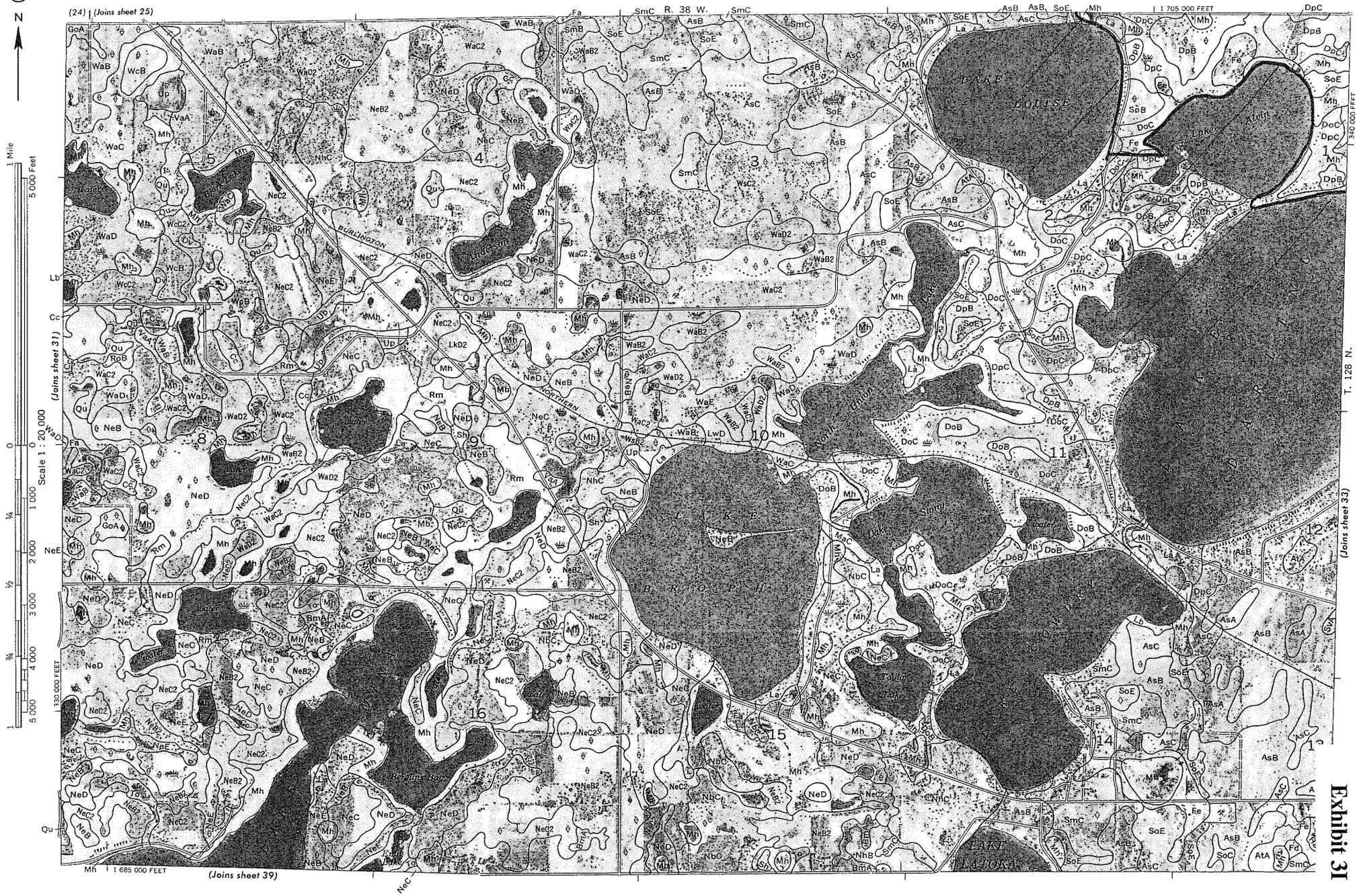

R. 38 W.
T. 129 N
1 690 000 FEET
1 355 000 FEET
1 345 000 FEET
1 705 000 FEET
(Joins sheet 18)
(Joins sheet 24)
(Joins sheet 26)
(Joins sheet 32)
Garfield
SEWAGE LAGOON
GRAVEL PIT
Lake View Cem.
Scale 1 : 20 000
1 Mile
5 000 Feet
N

Exhibit 3G


N
(Joins sheet 19)
R. 37 W.
1 730 000 FEET
1 355 000 FEET
T. 129 N.
(Joins sheet 25)
(Joins sheet 27)
1 710 000 FEET
1 345 000 FEET
(Joins sheet 33)
(34)
1 Mile
5 000 Feet
Scale 1 : 20 000
LAKE OF THE HOMME DIEU
Lightning Lake
Miller Lake
GRAVEL PIT
ATLAS CEMETERY
19
20
21
22
23
26
27
28
29
30
31
32
33
34
35

Exhibit 3H


32
DOUGLAS COUNTY, MINNESOTA — SHEET NUMBER 32
N
R. 38 W.
T. 128 N.
(24) (Joins sheet 25)
(Joins sheet 31)
(Joins sheet 33)
(Joins sheet 39)
1 705 000 FEET
1 685 000 FEET
340 000 FEET
330 000 FEET
Scale 1 : 20 000
1 Mile
5 000 Feet
LAKE DOUSE
LAKE LATOKA
Burlington Northern
Exhibit 3I

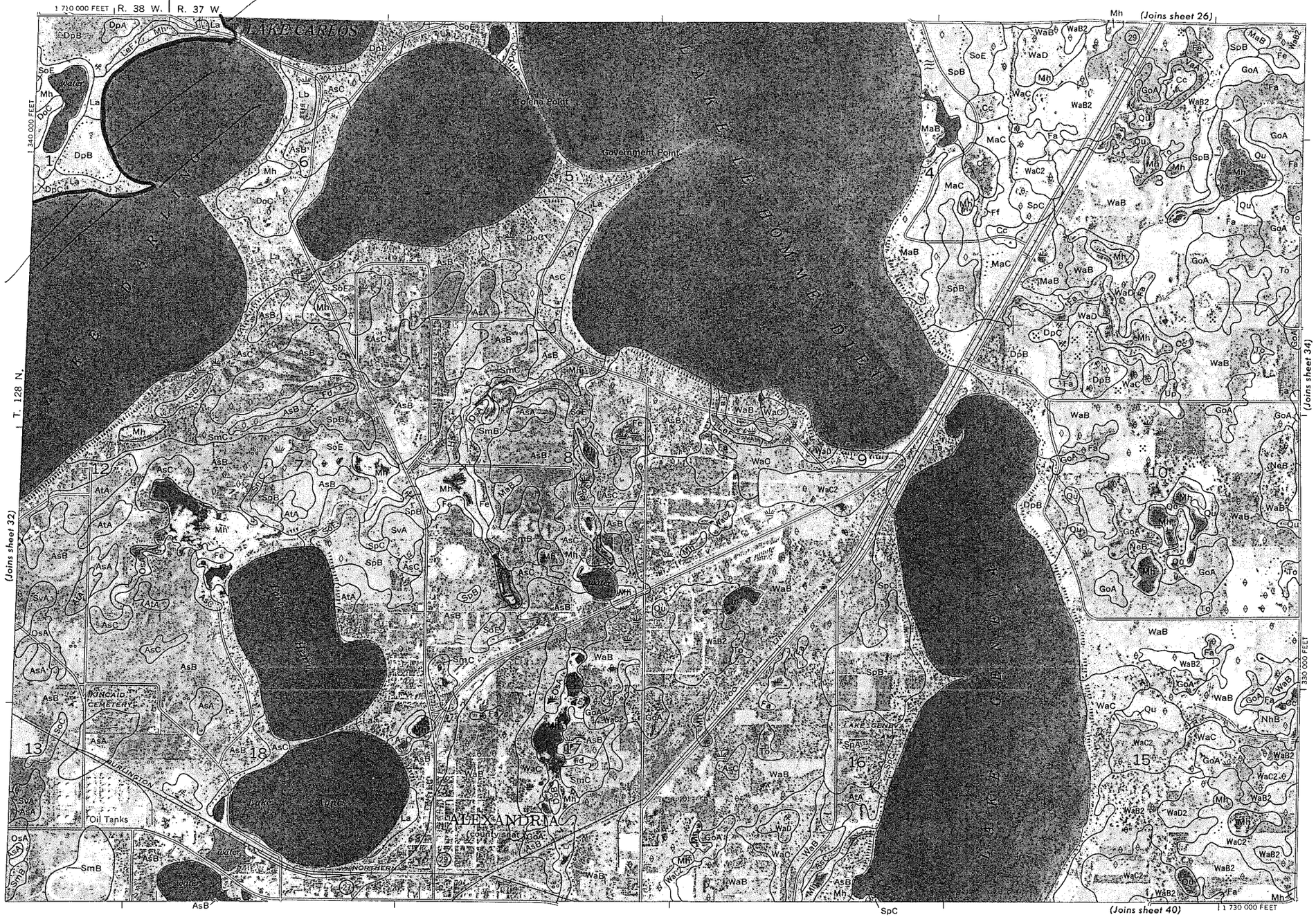

1 710 000 FEET
R. 38 W.
R. 37 W.
340 000 FEET
T. 128 N.
LAKE CARLOS
Lake Darling
Lake Brophy
Lake Geneva
Trojena Point
Government Point
ALEXANDRIA
(County seat)
Oil Tanks
BURLINGTON NORTHERN
(Joins sheet 26)
(Joins sheet 32)
(Joins sheet 34)
(Joins sheet 40)
1 730 000 FEET
N
1 Mile
5 000 Feet
Scale 1 : 20 000
330 000 FEET

Exhibit 3J

Exhibit 4

On USGS Quadrangle Alexandria East, # N4552.5 - W9515/7.5, that area North & West of Lake Carlos in Carlos township, T.129N.-R.37W in Sections 8, 9, 16, 17, 20, 29 & 32

plus

On USGS Quadrangle Alexandria West, # N4552.5 - W9522.5/7.5, that area North of Lakes Darling, Alvin and Louise and South and East of Lake Ida in Ida township, T.129N.-R.38W. in Sections 12, 13, 24, 25, 26, 35 & 36 and in Carlos township, T.129N.-R.37W. in Sections 7, 18, 19, 30 & 31 and in LaGrande township, T.128N.-R.38W. in Sections 1 & 2

plus

On USGS Quadrangle Lake Miltona East, #N4600 - W9515/7.5, that area South of Lake Miltona in Carlos township, T.129N.-R.37W. in Sections 4, 5, 8 & 9 and in Miltona township, T.130N.-R.37W. in Sections 32 & 33

plus

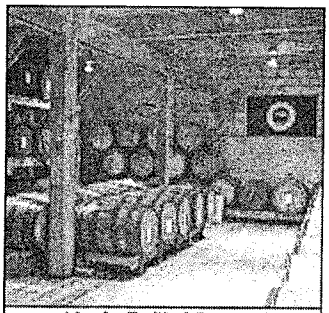
On USGS Quadrangle Lake Miltona West, # N4600 - W9522.5/7.5 that area South of Lake Miltona and East of Lake Ida Carlos township, T.129N.-R.37W. in Sections 6 & 7 and in Ida township, T.129N.-R.38W. in sections 1 & 12 and in Miltona township, T.130N.-R.37W. in section 31

ARCHIVES

Napa Valley North

It's not California, but Minnesota is the place for aspiring wineries as local winemakers draw attention with award-winning vintages and seasonal festivities.

By Barb Buchholz


Alexis Bailly Vineyard

If you don't have plans to visit California's wine country this year, Nan Bailly, master winemaker at Alexis Bailly Vineyard, has a suggestion.

Experience Napa Valley from your own backyard, or, more specifically, from hers. Bailly's 20-acre vineyard is located, not on the West Coast, but five minutes from Hastings. She is also one of several Minnesota wine-making pioneers who have high hopes for the state's future in wine production. Long winters and cold climate aside, they predict that Minnesota could someday be the Napa of the North.

Many people are surprised to learn that grapes grow in Minnesota. But according to estimates by the Minnesota Grape Growers Association, the state has more than 100 acres of commercial vineyards and roughly 25 commercial growers. In fact, the association says the sandy soil of the Minnesota and Mississippi river valleys is quite good for viticulture.

The handful of wineries that have emerged in Minnesota during the past 20 years are celebrating their success by opening their doors for wine-tasting events and festivals, adding a new dimension to Minnesota's tourism industry.

A VIBRANT VINTNER

When attorney David A. Bailly bought 20 acres of winter rye in the early '70s, he aspired to make a great Minnesota wine. He planted the land with French grapes, chosen not for their hardiness, but their flavor.

"He had no doubt he could succeed," said his daughter, Nan, who is now the owner of Minnesota's first winery. "His first year he won a gold medal for his 1977 vintage at the International Wine Competition. It was a nice incentive for him to get that recognition."

Today, Alexis Bailly's wines have won more than 45 national awards. The vineyard's signature wine, and the most highly decorated in national competition, is its Maréchal Foch, a dry, red wine whose grapes are named for the famous French general and hero of World War I.

The award-winning winery releases its new vintage each year during a special open house the first two weekends in June. In the beginning of November the winery hosts its Harvest Celebration, where it will release a new vintage called Nouveau this year.

GRAPE STOMPING EVENTS

The Alexandria Lakes area is bestknown as a haven for outdoor recreation. But last fall, visitors and residents were treated to something new: the area's first Grape Stomp and Fall Festival, hosted by Carlos Creek Winery, located just north of Alexandria.

The inaugural Grape Stomp was a success, with a turnout of almost 8,500 people. This year, owner Bob Johnson expects a crowd of 12,000. After all, who wouldn't want to climb into a barrel of ripe, red grapes and stomp to their heart's content? The 2001 Grape Stomp is set for Sept. 14-16.

Carlos Creek Winery, which opened to the public in 1999, has the largest grape vineyards in Minnesota. Like most of Minnesota's wine-producing pioneers, Johnson didn't have the mind-set of "you can't grow grapes here." However, he does admit that it's a labor-intensive process to cover the vines with dirt to keep them from freezing during the winter. The winery also maintains an orchard of 8,000 apple trees, lending itself to the production of apple wine and hard apple cider in addition to grape wines.

In addition to its signature stomping event, Carlos Creek offers tours, tastings and wine dinners for groups. This summer, there's a series of free outdoor concerts on Sunday afternoons.

FINE WINE AND ART

Visitors to historic Stillwater can take a break from the antique shops that line Main Street by relaxing and enjoying a taste of locally produced wine at the Northern Vineyards Winery and at its salesroom, located downtown.

The winery is owned and operated by the grape growers of the Minnesota Winegrowers Cooperative, whose members have small one- to five-acre vineyards scattered throughout Minnesota and western Wisconsin.

Winemaker Robin Partch said the co-op, which was formed in 1983, is the only one of its kind in the United States.

The Northern Vineyards Winery moved to its present location in 1999, doubling retail space from its previous spot on Main Street. In addition to wine tasting, visitors can enjoy fine art in the showroom gallery, which has featured quilt, watercolor and photography exhibits.

According to Partch, the winery's signature wine is its St. Croix, a dry red table wine made with the locally developed St. Croix grape. The winery and showroom are open year-round.

CELEBRATING SEASONS

Minnesota's only underground winery, Morgan Creek Vineyards, has been open for just two years near New Ulm. But word of mouth and the marketing know-how of its owners, Georg and Paula Marti, have attracted crowds of tourists. Visitors come to taste the wine and enjoy the winery's seasonal festivities.

"We're very interested in celebrating," said Georg, whose great-great-grandfather is

August Schell, the man who founded Schell Brewing Company in New Ulm. And celebrate they do, with a series of events throughout the year.

In May is the Bacchus Festival, an outdoor experience including culinary and performing arts, plus artisan exhibits and sales. On July 14-15 and July 21-22, the winery will host a German wine festival, and on Oct. 6 it will hold the Cambria Crush grape stomp.

"That event drew almost 700 people the first year it was held, despite a very Minnesota start," said Marti, who recalled the 6 inches of snow on the ground. "But we persevered."

It's no wonder the winery is getting plenty of support from the surrounding communities and their residents.

"Half of our business is local people, and of course they bring relatives and visitors," Marti said. "They tell us they're pleased to see someone is doing this in the area."

Barb Buchholz is manager of communications for AAA Minnesota/Iowa.

BEFORE YOU GO: Contact your local AAA office to obtain a map, TourBook guide and TripTik routing to help plan your own tour of the wineries and vineyards in Minnesota.

Minnesota Wineries

Alexis Bailly Vineyard - located five minutes from Hastings, off U.S. Highway 61. Open June through mid-November. Tasting-room hours: 11 a.m. to 5 p.m. Friday-Sunday. (651) 437-1413 - http://www.abvwines.com/.

Carlos Creek Winery - located two miles north of Alexandria on 6693 County Road NW. Open year-round from 11 a.m. to 6 p.m. Monday-Saturday; noon to 6 p.m. Sunday. (320) 846-5443 - http://www.carloscreekwinery.com/.

Luedke Vineyards - located eight miles west of Princeton. Open year-round from 1 p.m. to 7 p.m. Monday-Saturday; 1 p.m. to 5 p.m. Sunday. (763) 662-2389.

Minnesota Wild Winery - located outside of McGregor. Open for tastings and tours from 10 a.m. to 5 p.m. Monday-Saturday; noon to 5 p.m. Sunday. (800) 328-6731.

Morgan Creek Vineyards - located south of New Ulm. Open May through December from 11 a.m. to 9 p.m. Friday-Saturday; noon to 5 p.m. Sunday. January through April by appointment only. (507) 947-3547; e-mail: martiMCV@aol.com.

Northern Vineyards Winery - located at 223 N. Main St. in Stillwater. Open for tasting year-round from 10 a.m. to 5 p.m. Monday-Saturday; noon to 5 p.m. Sunday. (651) 430-1032 - http://www.northernvineyards.com/.

Saint Croix Vineyards - located at 6428 Manning Ave. in Stillwater. Tasting room open April through July from noon to 6 p.m. Friday-Sunday; daily August through December, please call ahead for hours. Private tours are available by appointment. (651) 430-3310 - http://www.SCVWines.com/.

Scenic Valley Winery - located in Minnesota's Historic Southeast Bluff Country in Lanesboro. Tastings are from 10 a.m. to 5 p.m. Monday-Saturday; noon to 5 p.m. Sunday. (507) 467-2958.

WineHaven Winery and Vineyard - located at 9757 292nd St. in Chisago City. Open for tasting April through December from 10 a.m. to 5 p.m. Thursday - Saturday; noon to 5 p.m. Sunday. Open January through March from noon to 4 p.m. Saturday. (651) 257-1017 - http://www.winehaven.com/.

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Additional Boundary Evidence

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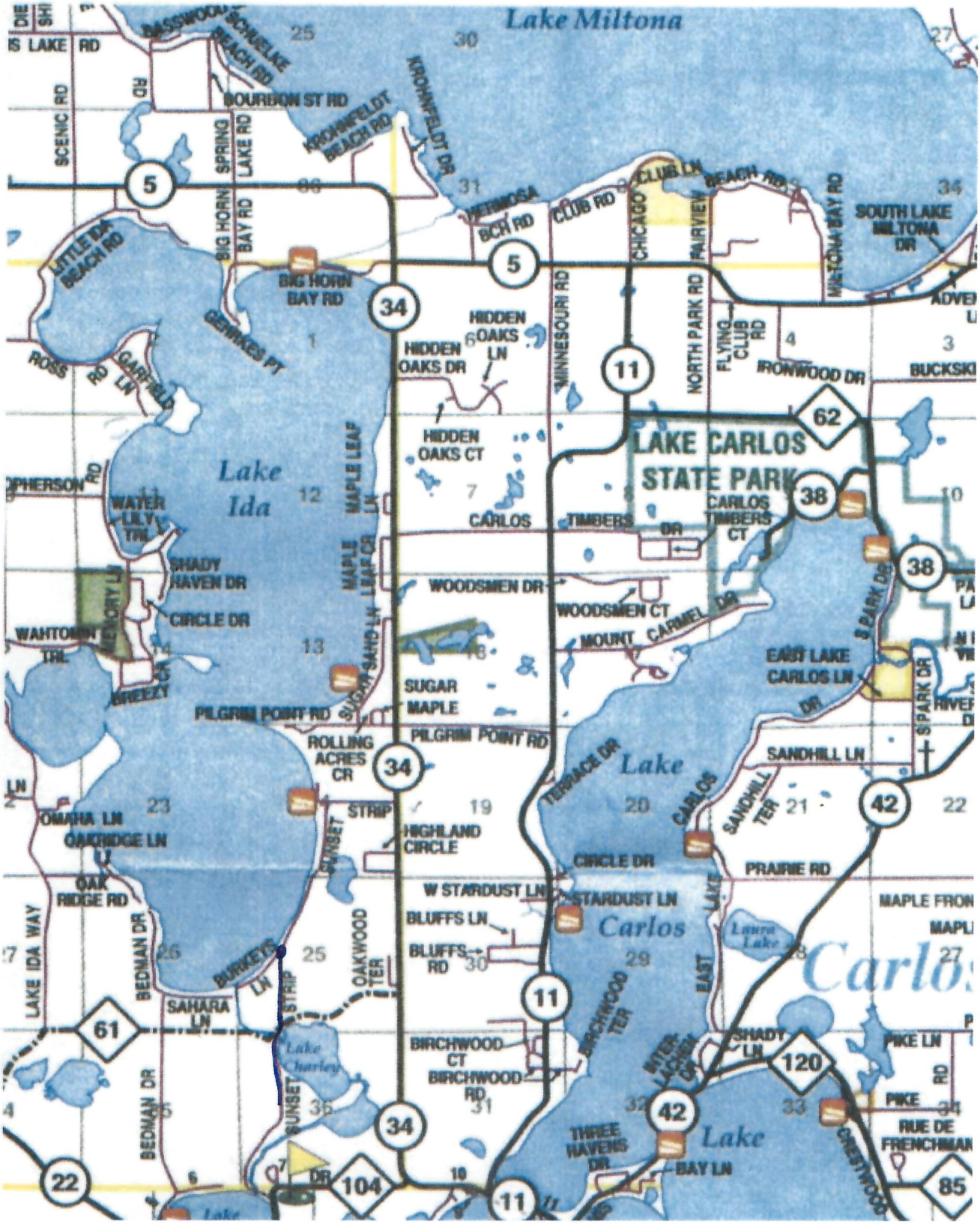

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Carlos Creek Winery

DESCRIPTION

ALEXANDRIA LAKES VITICULTURAL AREA

(a) Boundaries. The Alexandria lakes viticultural area is located in Douglas County, Minnesota and is encompassed by 6 fresh water lakes in an area of approximately 17 square miles. The boundary for Alexandria lakes viticultural area is as follows:

(1) The beginning point for the area is located on Douglas County road 11 and 34 at the Douglas County Bridge between Lake Carlos and Lake Darling referred to as the Carlos-Darling Bridge.

(2) From the Carlos-Darling Bridge, the boundary follows North then East along the shore of Lake Carlos approximately 10 miles through Carlos State Park to the Road intersection of Douglas County road 38 at the State Park entrance.

(3) The boundary continues North on Douglas County road 38 to North on County road 62 then continuing North on Buckskin road.

(4) The boundary proceeds North in a straight line from a point where Buckskin road turns East to the shoreline of Lake Miltona.

(5) The boundary follows the Lake Miltona shoreline in a Westerly direction approximately 5 miles to a point where Krohnfeldt Drive and Miltona shoreline begin to parallel at their shortest distance.

(6) The boundary follows Krohnfeldt Drive West to Douglas County road 34 the South to where County road 34 runs parallel to the Lake Ida Shoreline.

(7) The Boundary continues South along the East Shore of Lake Ida to the point where Burkeys Lane road and Sunset Strip road intersect.

(8) The Boundary follows Sunset Strip Road South to the intersection of Douglas County Road 104.

(9) Finally the Boundary follows North then East on County Road 104 to County Road 34. East on County road 34 to the Boundary start point at the Carlos-Darling Bridge.

Dated March 26, 2002

6693 County Road 34 NW • Alexandria, MN 56308
Tel: (320)846-5443 • Fax: (320)763-9290
E-Mail: ccwinery@carloscreekwinery.com
Website: www.carloscreekwinery.com

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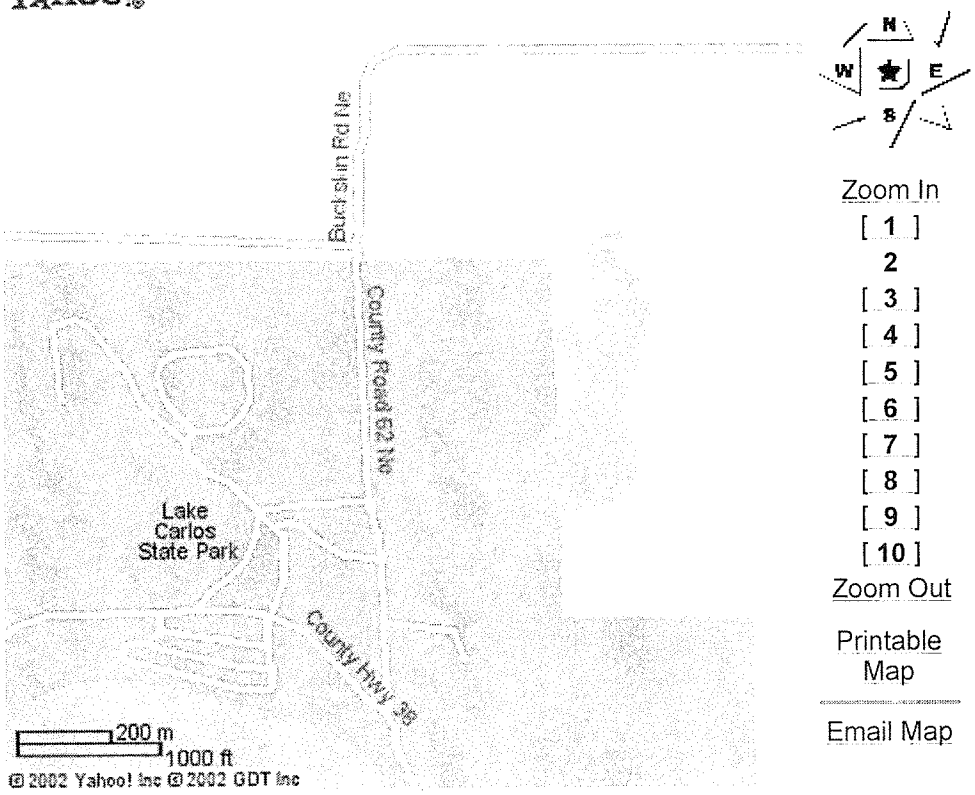

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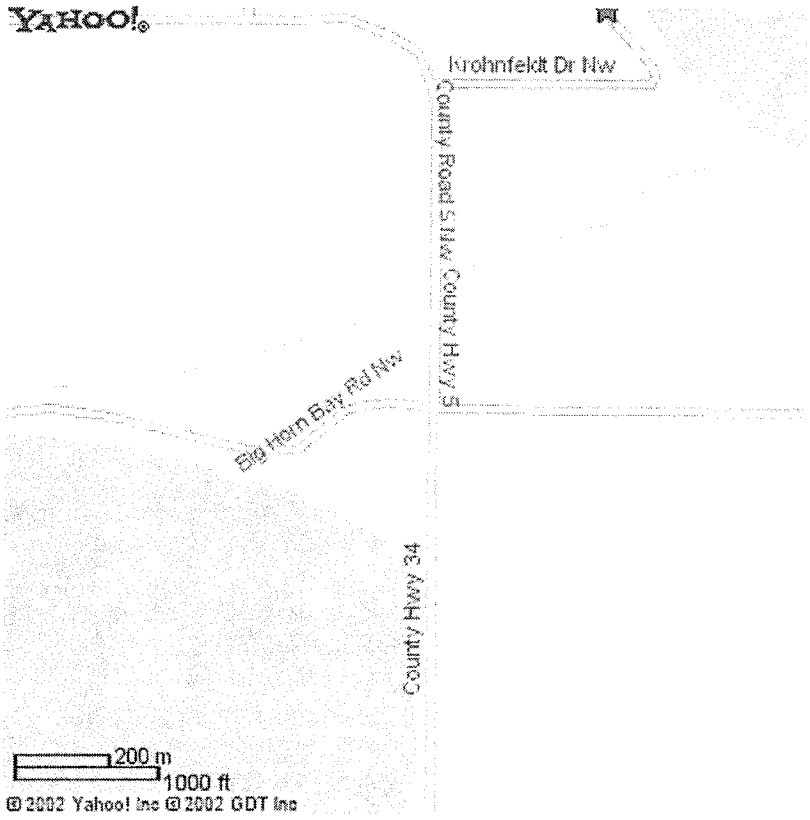

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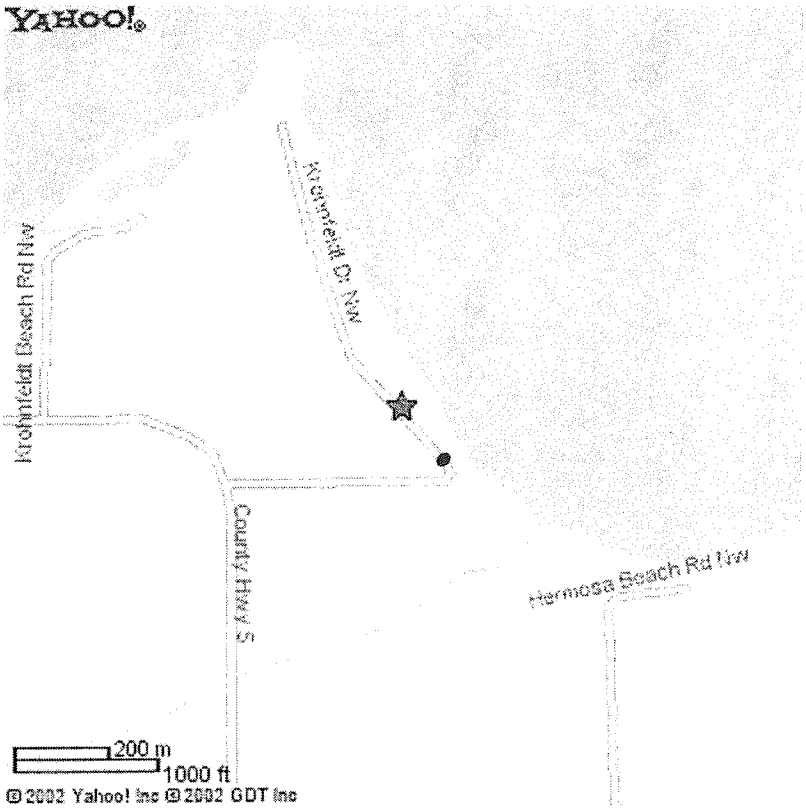

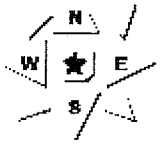

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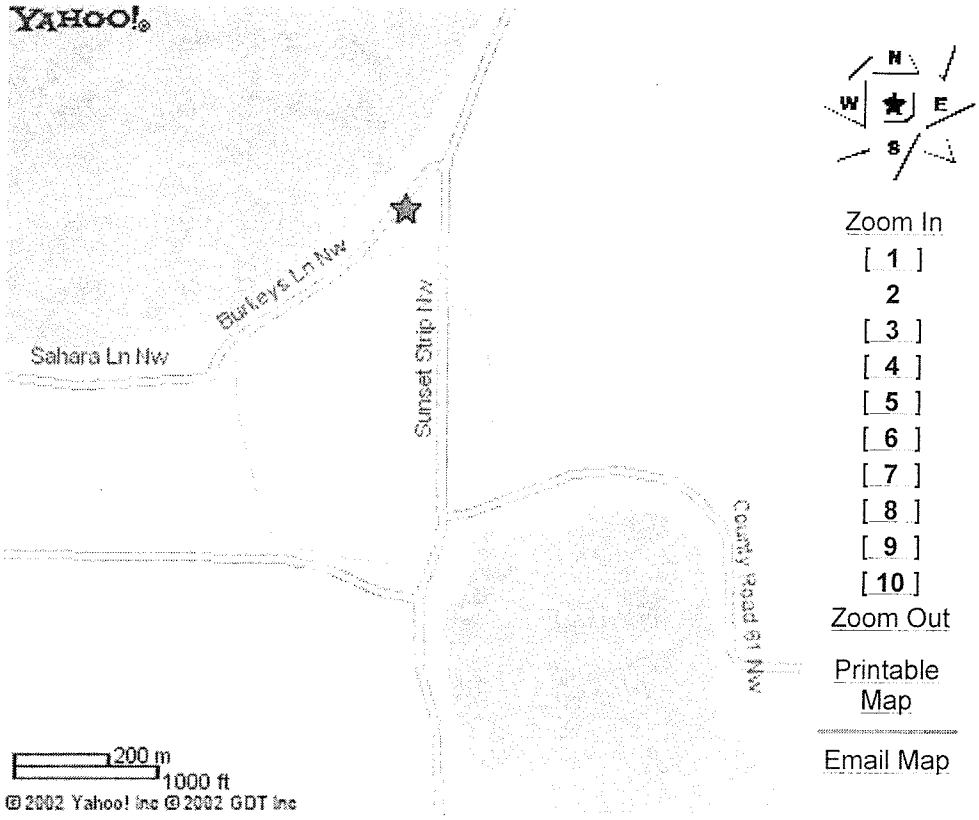

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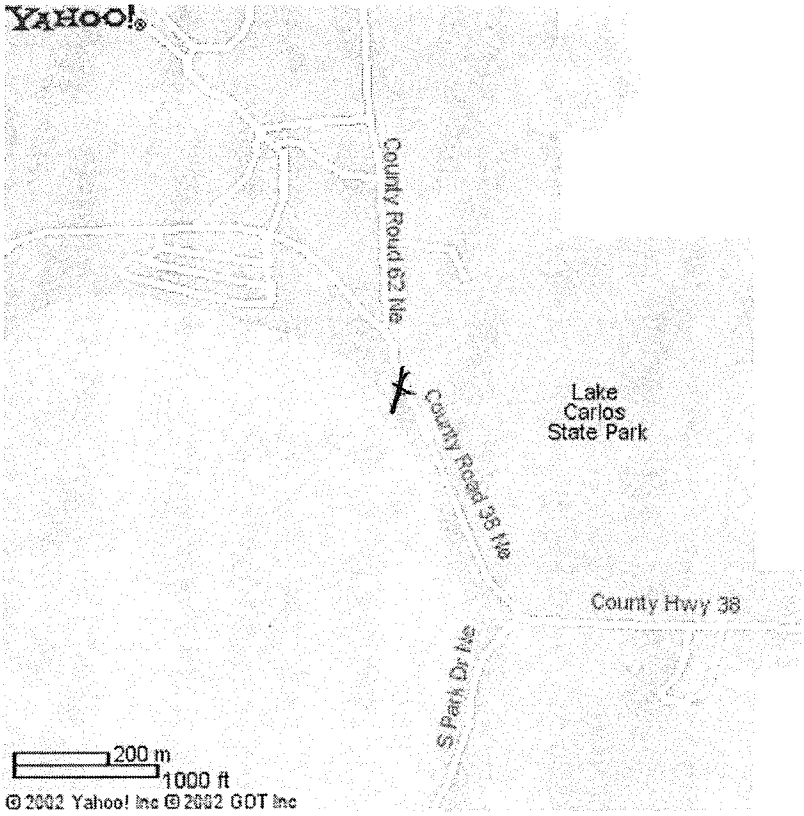

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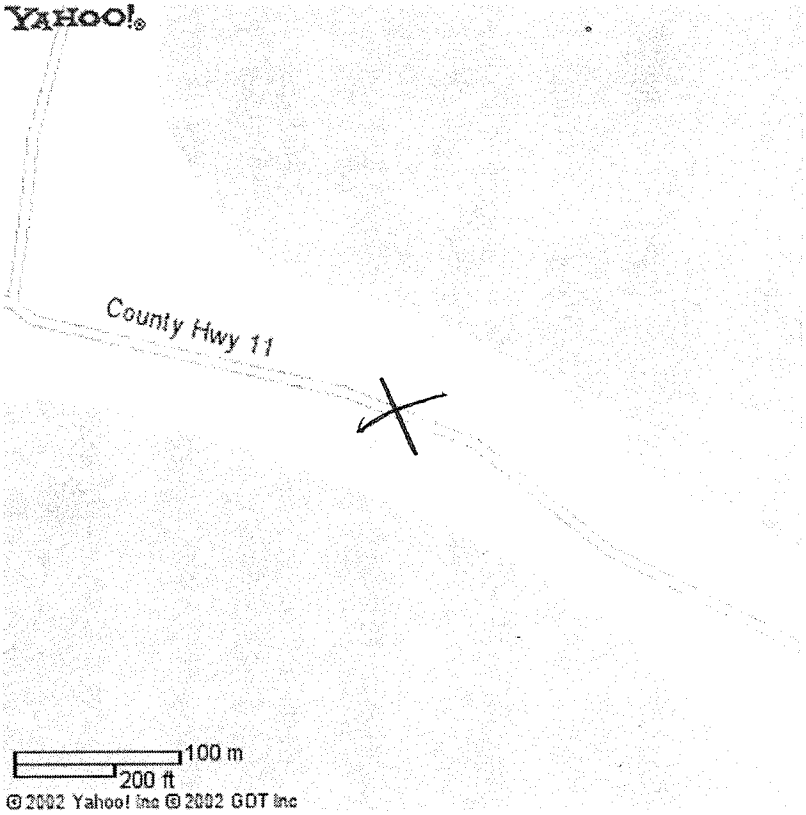

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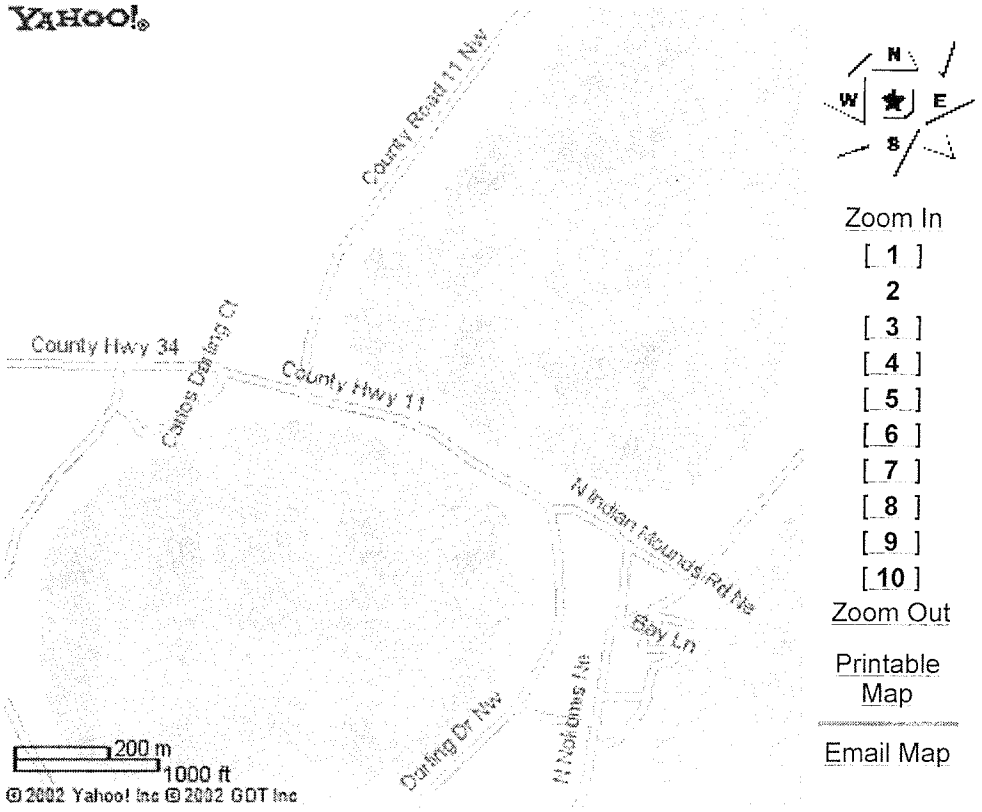

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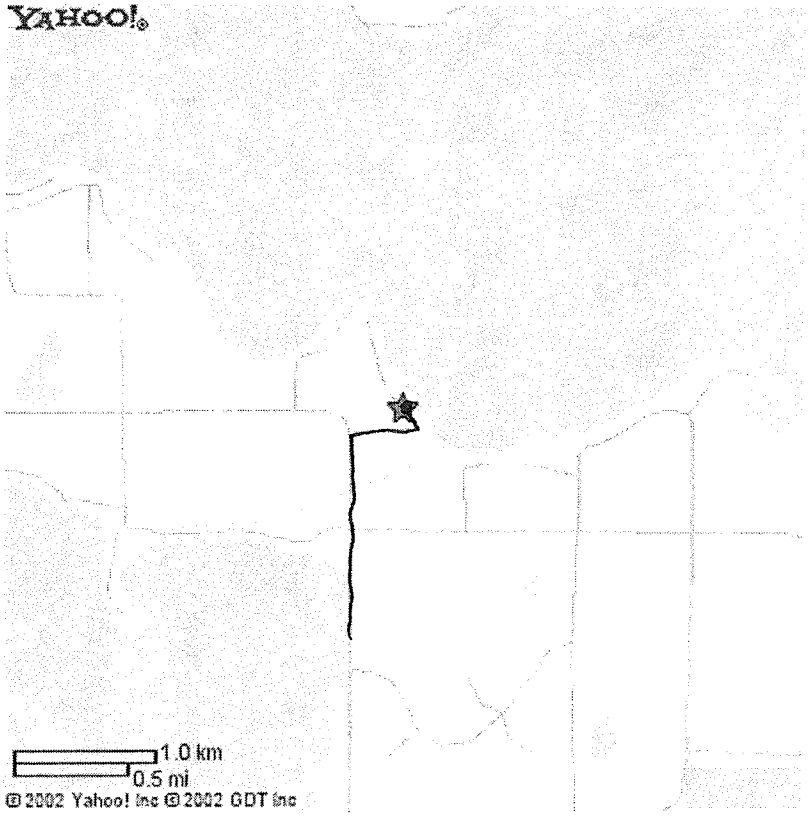

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Annual Perceptitation

			Alexandria City		Ashby		Wadena		Osakis	
20.44	20.44	1992	18.64	18.64	17.41	17.41	18.83	18.83	16.58	16.58
27.15	27.15	1993	27.62	27.62	31.66	31.66	30.95	30.95	29.61	29.61
20.24	20.24	1994	21.3	21.3	22.73	22.73	22.82	22.82	25.19	25.19
25.56	25.56	1995	29.17	29.17	27.69	27.69	29.42	29.42	26.01	26.01
19.54	19.54	1996	21.31	21.31	19.5	19.5	23.28	23.28	21.69	21.69
18.04	18.04	1997	21.81	21.81	19.9	19.9	16.55	16.55	17.84	17.84
26.41	26.41	1998	25.48	25.48	30.53	30.53	31.23	31.23	23.51	23.51
25.23	25.23	1999	22.89	22.89	30.55	30.55	30.48	30.48	26.83	26.83
26.94	26.94	2000	23.77	23.77	29.78	29.78	23.92	23.92	25.61	25.61
26.95	26.95	2001	24	24	34.84	34.84	29.82	29.82	28.45	28.45
23.65		Ten Year Average	**23.599**		**26.459**		**25.73**		**24.132**	

Snow Average

			Alexandria City		Ashby		Wadena		Osakis	
41.9	41.9	1992	41.9	41.9	41.9	41.9	46.8	46.8	41.9	41.9
37.7	37.7	1993	37.7	37.7	37.7	37.7	63	63	37.7	37.7
42.6	42.6	1994	42.6	42.6	42.6	42.6	47.4	47.4	42.6	42.6
59.5	59.5	1995	59.5	59.5	57	57	66.3	66.3	63.6	63.6
64.1	64.1	1996	64.1	64.1	89.9	89.9	64.2	64.2	74.2	74.2
66	66	1997	66	66	82.5	82.5	75.8	75.8	72	72
35.5	35.5	1998	35.5	35.5	35.2	35.2	36.4	36.4	36.9	36.9
34	34	1999	34	34	37.5	37.5	42.1	42.1	50.3	50.3
42	42	2000	42	42	56.3	56.3	62.9	62.9	51.5	51.5
53.5	53.5	2001	53.5	53.5	43.1	43.1	54.4	54.4	61.1	61.1
47.68		Ten Year Average	**47.68**		**52.37**		**55.93**		**53.18**	

Temperature Max

			Alexandria City		Ashby		Wadena		Osakis	
18.41	184.1	Jan	18.41	184.1	16.78	167.8	16.37	163.7	17.96	179.6
26.27	262.7	Feb	26.27	262.7	24.27	242.7	23.72	237.2	25.88	258.8
36.99	369.9	March	36.99	369.9	35.26	352.6	34.99	349.9	36.81	368.1
52.73	527.3	April	52.73	527.3	51.21	512.1	51.01	510.1	52.35	523.5
68.04	680.4	May	68.04	680.4	66.85	668.5	66.65	666.5	67.85	678.5
75.76	757.6	June	75.76	757.6	74.78	747.8	73.35	733.5	75.57	755.7
79.19	791.9	July	79.19	791.9	78.33	783.3	76.34	763.4	78.92	789.2
79.26	792.6	August	79.26	792.6	78.59	785.9	76.82	768.2	78.94	789.4
70.32	703.2	September	70.32	703.2	69.59	695.9	67.77	677.7	69.75	697.5
56.85	568.5	October	56.85	568.5	55.53	555.3	55.17	551.7	56.34	563.4
25.56	378.6	November	29.17	378.6	35.68	356.8	38.86	388.6	36.73	367.3
24.98	224.8	December	24.98	224.8	22.91	206.2	23.32	233.2	23.69	213.2

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The data matching your request is at the bottom of this page or should appear there within one minute.

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retrieve **only** this station: 210110 ALEXANDRIA

years: 1992 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly get daily

Target: T127 R38 S23

year	m	cc	tttN	rrW	ss	nnnn	ooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan						210112	.87	210112	26.1	9.6	210112	9.2	5.0	5 mi.
1992	Feb						210112	.36	210112	30.9	17.0	210112	3.6	1.9	5 mi.
1992	Mar						210112	1.60	210112	39.2	23.4	210112	3.1	.4	5 mi.
1992	Apr						210112	2.31	210112	49.5	32.2	210112	7.7	.8	5 mi.
1992	May						210112	2.28	210112	70.9	47.2	210112	0	0	5 mi.
1992	Jun						210112	3.89	210112	71.9	53.8	210112	0	0	5 mi.
1992	Jul						210112	2.93	210112	72.2	54.9	210112	0	0	5 mi.
1992	Aug						210112	1.26	210112	74.0	55.5	210112	0	0	5 mi.
1992	Sep						210112	1.28	210112	69.6	46.8	210112	0	0	5 mi.
1992	Oct						210112	.20	210112	54.4	35.7	210112	.5	0	5 mi.
1992	Nov						210112	.65	210112	30.9	23.3	210112	7.7	3.2	5 mi.
1992	Dec						210112	1.01	210112	20.8	6.3	210112	10.1	5.9	5 mi.
1993	Jan						210112	1.01	210112	18.5	-.5	210112	10.8	15.3	5 mi.
1993	Feb						210112	.18	210112	20.6	4.4	210112	1.8	11.1	5 mi.
1993	Mar						210112	1.59	210112	34.8	15.7	210112	5.9	6.7	5 mi.
1993	Apr						210112	2.18	210112	52.0	32.0	210112	.8	0	5 mi.
1993	May						210112	5.17	210112	64.8	46.2	210112	0	0	5 mi.
1993	Jun						210112	4.52	210112	70.2	53.7	210112	0	0	5 mi.
1993	Jul						210112	6.31	210112	75.6	59.5	210112	0	0	5 mi.
1993	Aug						210112	2.27	210112	77.0	59.1	210112	0	0	5 mi.
1993	Sep						210112	1.83	210112	63.9	43.3	210112	0	0	5 mi.
1993	Oct						210112	.44	210112	53.4	33.3	210112	0	0	5 mi.
1993	Nov						210112	1.37	210112	32.5	19.2	210112	8.7	1.9	5 mi.
1993	Dec						210112	.75	210112	23.5	8.7	210112	9.7	9.0	5 mi.
1994	Jan						210112	.59	210112	5.5	-10.5	210112	17.0	20.5	5 mi.
1994	Feb						210112	.56	210112	16.9	-1.5	210112	8.1	20.3	5 mi.
1994	Mar						210112	.50	210112	38.1	22.4	210112	4.9	4.5	5 mi.
1994	Apr						210112	3.46	210112	53.6	32.2	210112	3.5	.2	5 mi.

1994	May						210112	1.74	210112	70.9	47.5	210112	0	0 5 mi.
1994	Jun						210112	1.49	210112	77.6	57.6	210112	0	0 5 mi.
1994	Jul						210112	3.37	210112	77.2	59.5	210112	0	0 5 mi.
1994	Aug						210112	2.35	210112	75.4	56.5	210112	0	0 5 mi.
1994	Sep						210112	2.26	210112	70.7	52.1	210112	0	0 5 mi.
1994	Oct						210112	3.76	210112	56.8	41.4	210112	0	0 5 mi.
1994	Nov						210112	.82	210112	42.0	26.2	210112	4.2	.4 5 mi.
1994	Dec						210112	.40	210112	27.6	13.3	210112	4.9	3.7 5 mi.
1995	Jan						210112	1.05	210112	19.8	3.5	210112	6.4	3.8 5 mi.
1995	Feb						210112	.58	210112	23.2	2.4	210112	8.4	7.0 5 mi.
1995	Mar						210112	1.87	210112	37.1	21.7	210112	15.3	4.9 5 mi.
1995	Apr						210112	1.75	210112	45.5	29.3	210112	6.5	.3 5 mi.
1995	May						210112	2.81	210112	64.2	44.5	210112	0	0 5 mi.
1995	Jun						210112	2.92	210112	80.1	59.6	210112	0	0 5 mi.
1995	Jul						210112	5.22	210112	79.9	60.7	210112	0	0 5 mi.
1995	Aug						210112	4.75	210112	80.0	62.5	210112	0	0 5 mi.
1995	Sep						210112	4.84	210112	67.8	48.1	210112	0	0 5 mi.
1995	Oct						210112	2.39	210112	50.7	37.5	210112	6.0	.1 5 mi.
1995	Nov						210112	.31	210112	30.1	16.1	210112	4.4	.5 5 mi.
1995	Dec						210112	.68	213174	24.9	10.4	213174	12.5	8.5 6 mi.
1996	Jan						210112	.81	213174	14.4	-4.5	213174	23.0	13.6 6 mi.
1996	Feb						210112	.29	213174	25.1	6.4	213174	5.3	17.5 6 mi.
1996	Mar						210112	.22	213174	32.6	14.3	213174	8.0	5.9 6 mi.
1996	Apr						210112	.41	213174	51.9	26.3	213174	3.3	.1 6 mi.
1996	May	21	128N	38W	22	SWCD		3.24	213174	65.6	42.2	213174	0	0 6 mi.
1996	Jun	21	128N	38W	22	SWCD		2.95	213174	79.5	54.7	213174	0	0 6 mi.
1996	Jul	21	128N	38W	22	SWCD		2.37	213174	80.0	56.2	213174	0	0 6 mi.
1996	Aug	21	128N	38W	22	SWCD		1.64	213174	82.9	57.6	213174	0	0 6 mi.
1996	Sep						210112	3.65	213174	71.9	46.9	213174	0	0 6 mi.
1996	Oct	21	128N	38W	22	SWCD		4.73	213174	60.5	36.1	213174	0	0 6 mi.
1996	Nov						210112	.85	213174	35.8	9.8	213174	13.5	3.8 6 mi.
1996	Dec						210112	.15	213174	18.8	4.0	213174	11.0	13.9 6 mi.
1997	Jan						213174	1.63	213174	14.6	-1.2	213174	30.5	26.4 8 mi.
1997	Feb						213174	.18	213174	27.6	10.3	213174	3.5	28.0 8 mi.
1997	Mar						213174	1.15	213174	35.1	18.3	213174	14.5	29.1 8 mi.
1997	Apr						213174	1.23	213174	52.8	30.3	213174	2.0	.9 8 mi.
1997	May	61	126N	38W	27	SWCD		1.54	213174	65.9	38.8	213174	0	0 7 mi.
1997	Jun	21	128N	38W	22	SWCD		2.12	213174	82.3	55.1	213174	0	0 6 mi.
1997	Jul	61	126N	38W	27	SWCD		5.28	213174	81.5	56.7	213174	0	0 7 mi.
1997	Aug	21	128N	38W	22	SWCD		4.38	213174	79.5	56.5	213174	0	0 6 mi.
1997	Sep	21	128N	38W	22	SWCD		1.88	213174	76.6	49.4	213174	0	0 6 mi.
1997	Oct	21	128N	38W	22	SWCD		1.89	213174	62.5	34.7	213174	1.0	0 6 mi.
1997	Nov						213174	.38	213174	35.6	17.1	213174	8.5	.7 8 mi.
1997	Dec	21	129N	37W	32	SWCD		.15	213174	33.4	17.1	213174	6.0	.4 10 mi.
1998	Jan	21	127N	38W	26	SWCD		.95	213174	23.7	4.2	213174	18.5	6.5 1 mi.
1998	Feb	21	127N	38W	26	SWCD		.57	213174	37.2	21.8	213174	1.0	6.7 1 mi.
1998	Mar	21	127N	38W	26	SWCD		1.23	213174	37.1	20.1	213174	5.0	.9 1 mi.
1998	Apr	21	127N	38W	26	SWCD		.93	213174	63.5	35.4	213174	5.0	.1 1 mi.
1998	May	21	127N	38W	26	SWCD		3.98	213174	77.1	48.8	213174	0	0 1 mi.
1998	Jun	21	127N	38W	26	SWCD		4.46	213174	74.3	52.1	213174	0	0 1 mi.
1998	Jul	21	127N	38W	26	SWCD		4.87	213174	82.8	59.4	213174	0	0 1 mi.
1998	Aug	21	127N	38W	26	SWCD		2.20	213174	84.2	57.6	213174	0	0 1 mi.
1998	Sep	21	127N	38W	26	SWCD		.57	213174	79.1	51.6	213174	0	0 1 mi.
1998	Oct	21	127N	38W	26	SWCD		5.03	213174	61.3	39.5	213174	0	0 1 mi.
1998	Nov	21	127N	38W	26	SWCD		.59	213174	42.2	25.8	213174	3.0	1.2 1 mi.
1998	Dec	21	127N	38W	26	SWCD		.10	213174	35.8	11.0	213174	3.0	.1 1 mi.
1999	Jan	21	127N	38W	26	SWCD		.95	213174	18.2	2.3	213174	20.0	9.4 1 mi.
1999	Feb	21	127N	38W	26	SWCD		0	213174	35.1	20.0	213174	1.5	4.7 1 mi.
1999	Mar						210112	.83	210112	39.2	21.9	213174	6.5	.7 5 mi.
1999	Apr	21	127N	38W	26	SWCD		1.66	210112	53.5	35.1	213174	1.0	0 1 mi.
1999	May	21	127N	38W	26	SWCD		4.14	210112	66.0	47.3	213174	0	0 1 mi.
1999	Jun	21	127N	38W	26	SWCD		4.04	210112	74.2	56.0	213174	0	0 1 mi.
1999	Jul	21	127N	38W	26	SWCD		3.25	210112	82.7	61.5	213174	0	0 1 mi.
1999	Aug	21	127N	38W	26	SWCD		3.40	210112	77.6	58.5	213174	0	0 1 mi.
1999	Sep	21	127N	38W	26	SWCD		4.10	210112	65.7	46.8	213174	0	0 1 mi.
1999	Oct	21	127N	38W	26	SWCD		.40	210112	55.8	34.2	213174	0	0 1 mi.
1999	Nov						210112	.05	210112	47.6	27.5	213174	0	0 5 mi.
1999	Dec						210112	.07	210112	30.7	12.9	213174	5.0	1.1 5 mi.
2000	Jan						210112	.08	210112	19.5	.3	213174	11.0	4.0 5 mi.
2000	Feb						210112	.78	210112	30.8	13.6	213174	8.0	5.0 5 mi.
2000	Mar	21	127N	38W	26	SWCD		1.17	210112	46.4	26.3	213174	0	0 1 mi.
2000	Apr	21	127N	38W	26	SWCD		1.24	210112	53.2	32.0	213174	m	.1 1 mi.
2000	May	21	127N	38W	26	SWCD		3.22	210112	68.1	46.5	213174	0	0 1 mi.
2000	Jun	21	127N	38W	26	SWCD		3.57	210112	72.1	51.5	213174	0	0 1 mi.

2000	Jul	21	127N	38W	26	SWCD		5.67	210112	78.4	59.7	213174	0	0 1 mi.
2000	Aug	21	127N	38W	26	SWCD		1.83	210112	79.6	57.9	213174	0	0 1 mi.
2000	Sep	21	127N	38W	26	SWCD		1.05	210112	70.6	44.9	213174	0	0 1 mi.
2000	Oct	21	127N	38W	26	SWCD		2.68	210112	58.1	38.3	213174	0	0 1 mi.
2000	Nov	21	127N	38W	26	SWCD		2.37	210112	32.7	20.9	213174	7.5	1.4 1 mi.
2000	Dec						210112	.11	210112	9.3	-6.5	213174	15.5	6.2 5 mi.
2001	Jan						210112	.55	210112	23.8	6.7	213174	8.0	8.7 5 mi.
2001	Feb						210112	.41	210112	15.3	-6.2	213174	22.0	20.0 5 mi.
2001	Mar						210112	.28	210112	30.3	13.7	213174	6.5	19.8 5 mi.
2001	Apr	21	127N	38W	26	SWCD		6.76	210112	51.8	33.7	213174	0	0 1 mi.
2001	May	21	127N	38W	26	SWCD		2.35	210112	66.9	47.2	213174	0	0 1 mi.
2001	Jun	21	127N	38W	26	SWCD		4.91	210112	75.4	56.0	213174	0	0 1 mi.
2001	Jul	21	127N	38W	26	SWCD		3.10	210112	81.6	62.4	213174	0	0 1 mi.
2001	Aug	21	127N	38W	26	SWCD		1.48	210112	82.4	58.6	213174	0	0 1 mi.
2001	Sep						210112	1.84	210112	67.3	48.5	213174	0	0 5 mi.
2001	Oct						210112	1.11	210112	55.0	35.5	213174	2.0	.1 5 mi.
2001	Nov						210112	.95	210112	49.2	31.7	213174	11.0	1.4 5 mi.
2001	Dec						213174	.26	210112	m	m	213174	4.0	2.1 8 mi.
2002	Jan						213174	.09	210112	m	m	m	m	10 mi.
2002	Feb						213174	.65	210112	m	m	m	m	10 mi.
2002	Mar						215638	m	210112	m	m	m	m	26 mi.
2002	Apr					m	m	m	m	m	999 mi.			
2002	May					m	m	m	m	m	999 mi.			
2002	Jun					m	m	m	m	m	999 mi.			
2002	Jul					m	m	m	m	m	999 mi.			
2002	Aug					m	m	m	m	m	999 mi.			
2002	Sep					m	m	m	m	m	999 mi.			
2002	Oct					m	m	m	m	m	999 mi.			
2002	Nov					m	m	m	m	m	999 mi.			
2002	Dec					m	m	m	m	m	999 mi.			

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

return to retrieval selection

State Climatology Office - MnDNR - Waters, 1996-2001
You can send e-mail to the State Climatology Office.

'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is DOUGLAS CARLOS 129N 37W S8
Lat: 45.99968 Lon: 95.37305

set location

retrieve **only** this station: 210116 ALEXANDRIA WASTEWAT

years: 1992 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly get daily

Target: T129 R37 S8

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan						210112	.87	210112	26.1	9.6	210112	9.2	5.0	9 mi.
1992	Feb						210112	.36	210112	30.9	17.0	210112	3.6	1.9	9 mi.
1992	Mar						210112	1.60	210112	39.2	23.4	210112	3.1	.4	9 mi.
1992	Apr	21	130N	37W	21	SWCD		2.34	210112	49.5	32.2	210112	7.7	.8	4 mi.
1992	May	21	130N	37W	21	SWCD		1.61	210112	70.9	47.2	210112	0	0	4 mi.
1992	Jun	21	130N	37W	21	SWCD		4.53	210112	71.9	53.8	210112	0	0	4 mi.
1992	Jul	21	130N	37W	21	SWCD		3.34	210112	72.2	54.9	210112	0	0	4 mi.
1992	Aug	21	130N	37W	21	SWCD		2.35	210112	74.0	55.5	210112	0	0	4 mi.
1992	Sep	21	130N	37W	21	SWCD		1.54	210112	69.6	46.8	210112	0	0	4 mi.
1992	Oct	21	130N	37W	21	SWCD		.24	210112	54.4	35.7	210112	.5	0	4 mi.
1992	Nov						210112	.65	210112	30.9	23.3	210112	7.7	3.2	9 mi.
1992	Dec						210112	1.01	210112	20.8	6.3	210112	10.1	5.9	9 mi.
1993	Jan						210112	1.01	210112	18.5	-.5	210112	10.8	15.3	8 mi.
1993	Feb						210112	.18	210112	20.6	4.4	210112	1.8	11.1	8 mi.
1993	Mar						210112	1.59	210112	34.8	15.7	210112	5.9	6.7	8 mi.
1993	Apr	21	130N	37W	21	SWCD		2.60	210112	52.0	32.0	210112	.8	0	4 mi.
1993	May	21	129N	37W	32	SWCD		5.18	210112	64.8	46.2	210112	0	0	4 mi.
1993	Jun	21	129N	37W	32	SWCD		3.23	210112	70.2	53.7	210112	0	0	4 mi.
1993	Jul	21	129N	37W	32	SWCD		5.71	210112	75.6	59.5	210112	0	0	4 mi.
1993	Aug	21	130N	37W	21	SWCD		3.97	210112	77.0	59.1	210112	0	0	4 mi.
1993	Sep	21	129N	37W	32	SWCD		1.13	210112	63.9	43.3	210112	0	0	4 mi.
1993	Oct	21	129N	37W	32	SWCD		.23	210112	53.4	33.3	210112	0	0	4 mi.
1993	Nov						210112	1.37	210112	32.5	19.2	210112	8.7	1.9	8 mi.
1993	Dec	21	129N	37W	32	SWCD		.95	210112	23.5	8.7	210112	9.7	9.0	4 mi.
1994	Jan						210112	.59	210112	5.5	-10.5	210112	17.0	20.5	8 mi.
1994	Feb						210112	.56	210112	16.9	-1.5	210112	8.1	20.3	8 mi.
1994	Mar	21	129N	37W	32	SWCD		.84	210112	38.1	22.4	210112	4.9	4.5	4 mi.
1994	Apr	21	129N	37W	32	SWCD		2.85	210112	53.6	32.2	210112	3.5	.2	4 mi.

1994	May	21	129N	37W	32	SWCD		1.62	210112	70.9	47.5	210112	0	0	4 mi.
1994	Jun	21	130N	37W	21	SWCD		2.86	210112	77.6	57.6	210112	0	0	4 mi.
1994	Jul	21	129N	37W	32	SWCD		2.86	210112	77.2	59.5	210112	0	0	4 mi.
1994	Aug	21	129N	37W	32	SWCD		2.59	210112	75.4	56.5	210112	0	0	4 mi.
1994	Sep	21	129N	37W	32	SWCD		1.32	210112	70.7	52.1	210112	0	0	4 mi.
1994	Oct	21	129N	37W	32	SWCD		2.93	210112	56.8	41.4	210112	0	0	4 mi.
1994	Nov	21	129N	37W	32	SWCD		.82	210112	42.0	26.2	210112	4.2	.4	4 mi.
1994	Dec						210112	.40	210112	27.6	13.3	210112	4.9	3.7	8 mi.
1995	Jan						210112	1.05	210112	19.8	3.5	210112	6.4	3.8	8 mi.
1995	Feb	21	129N	37W	32	SWCD		.48	210112	23.2	2.4	210112	8.4	7.0	4 mi.
1995	Mar						210112	1.87	210112	37.1	21.7	210112	15.3	4.9	8 mi.
1995	Apr	21	129N	37W	32	SWCD		1.68	210112	45.5	29.3	210112	6.5	.3	4 mi.
1995	May	21	129N	37W	32	SWCD		2.40	210112	64.2	44.5	210112	0	0	4 mi.
1995	Jun	21	129N	37W	32	SWCD		2.49	210112	80.1	59.6	210112	0	0	4 mi.
1995	Jul	21	129N	37W	32	SWCD		6.00	210112	79.9	60.7	210112	0	0	4 mi.
1995	Aug	21	129N	37W	32	SWCD		3.61	210112	80.0	62.5	210112	0	0	4 mi.
1995	Sep	21	129N	37W	32	SWCD		1.23	210112	67.8	48.1	210112	0	0	4 mi.
1995	Oct						210112	2.39	210112	50.7	37.5	210112	6.0	.1	8 mi.
1995	Nov	21	129N	37W	32	SWCD		.63	210112	30.1	16.1	210112	4.4	.5	4 mi.
1995	Dec	21	129N	37W	32	SWCD		1.73	213174	24.9	10.4	213174	12.5	8.5	4 mi.
1996	Jan	21	129N	37W	32	SWCD		1.19	213174	14.4	-4.5	213174	23.0	12.7	4 mi.
1996	Feb	21	129N	37W	32	SWCD		.33	213174	25.1	6.4	213174	5.3	17.5	4 mi.
1996	Mar	21	129N	37W	32	SWCD		.41	213174	32.6	14.3	213174	8.0	5.9	4 mi.
1996	Apr	21	129N	37W	32	SWCD		.31	213174	51.9	26.3	213174	3.3	.1	4 mi.
1996	May	21	129N	37W	32	SWCD		2.61	213174	65.6	42.2	213174	0	0	4 mi.
1996	Jun	21	129N	37W	32	SWCD		1.93	213174	79.5	54.7	213174	0	0	4 mi.
1996	Jul	21	129N	37W	32	SWCD		2.19	213174	80.0	56.2	213174	0	0	4 mi.
1996	Aug	21	129N	37W	32	SWCD		1.47	213174	82.9	57.6	213174	0	0	4 mi.
1996	Sep	21	130N	37W	21	SWCD		2.72	213174	71.9	46.9	213174	0	0	4 mi.
1996	Oct	21	129N	37W	32	SWCD		4.00	213174	60.5	36.1	213174	0	0	4 mi.
1996	Nov	21	129N	37W	32	SWCD		1.95	213174	35.8	9.8	213174	13.5	3.9	4 mi.
1996	Dec	21	129N	37W	32	SWCD		.43	213174	18.8	4.0	213174	11.0	14.6	4 mi.
1997	Jan	21	129N	37W	32	SWCD		1.30	213174	14.6	-1.2	213174	30.5	30.1	4 mi.
1997	Feb	21	129N	37W	32	SWCD		.05	213174	27.6	10.3	213174	3.5	28.9	4 mi.
1997	Mar	21	129N	37W	32	SWCD		1.54	213174	35.1	18.3	213174	14.5	23.7	4 mi.
1997	Apr	21	129N	37W	32	SWCD		.54	213174	52.8	30.3	213174	2.0	.9	4 mi.
1997	May	21	129N	37W	32	SWCD		1.09	213174	65.9	38.8	213174	0	0	4 mi.
1997	Jun	21	129N	37W	32	SWCD		1.84	213174	82.3	55.1	213174	0	0	4 mi.
1997	Jul	21	129N	37W	32	SWCD		5.11	213174	81.5	56.7	213174	0	0	4 mi.
1997	Aug	21	130N	37W	21	SWCD		2.86	213174	79.5	56.5	213174	0	0	4 mi.
1997	Sep	21	129N	37W	32	SWCD		1.60	213174	76.6	49.4	213174	0	0	4 mi.
1997	Oct	21	129N	37W	32	SWCD		1.31	213174	62.5	34.7	213174	1.0	0	4 mi.
1997	Nov	21	129N	37W	32	SWCD		.65	213174	35.6	17.1	213174	8.5	3.8	4 mi.
1997	Dec	21	129N	37W	32	SWCD		.15	213174	33.4	17.1	213174	6.0	.5	4 mi.
1998	Jan	21	129N	37W	32	SWCD		1.41	213174	23.7	4.2	213174	18.5	6.5	4 mi.
1998	Feb	21	129N	37W	32	SWCD		.68	213174	37.2	21.8	213174	1.0	6.1	4 mi.
1998	Mar	21	129N	37W	32	SWCD		.92	213174	37.1	20.1	213174	5.0	.2	4 mi.
1998	Apr	21	129N	37W	32	SWCD		.59	213174	63.5	35.4	213174	5.0	.1	4 mi.
1998	May	21	129N	37W	32	SWCD		3.28	213174	77.1	48.8	213174	0	0	4 mi.
1998	Jun	21	130N	37W	21	SWCD		5.10	213174	74.3	52.1	213174	0	0	4 mi.
1998	Jul	21	129N	37W	32	SWCD		3.21	213174	82.8	59.4	213174	0	0	4 mi.
1998	Aug	21	129N	37W	32	SWCD		2.27	213174	84.2	57.6	213174	0	0	4 mi.
1998	Sep	21	129N	37W	32	SWCD		1.55	213174	79.1	51.6	213174	0	0	4 mi.
1998	Oct	21	129N	37W	32	SWCD		6.19	213174	61.3	39.5	213174	0	0	4 mi.
1998	Nov	21	129N	37W	32	SWCD		.99	213174	42.2	25.8	213174	3.0	1.2	4 mi.
1998	Dec	21	129N	37W	32	SWCD		.22	213174	35.8	11.0	213174	3.0	1.1	4 mi.
1999	Jan	21	127N	38W	26	SWCD		.95	213174	18.2	2.3	213174	20.0	11.5	15 mi.
1999	Feb	21	129N	37W	32	SWCD		.06	213174	35.1	20.0	213174	1.5	8.2	4 mi.
1999	Mar						210112	.83	210112	39.2	21.9	213174	6.5	3.2	8 mi.
1999	Apr	21	130N	37W	21	SWCD		1.54	210112	53.5	35.1	213174	1.0	0	4 mi.
1999	May	21	129N	37W	32	SWCD		4.93	210112	66.0	47.3	213174	0	0	4 mi.
1999	Jun	21	129N	37W	32	SWCD		4.02	210112	74.2	56.0	213174	0	0	4 mi.
1999	Jul	21	130N	37W	21	SWCD		4.88	210112	82.7	61.5	213174	0	0	4 mi.
1999	Aug	21	129N	37W	32	SWCD		3.88	210112	77.6	58.5	213174	0	0	4 mi.
1999	Sep	21	129N	38W	26	SWCD		3.46	210112	65.7	46.8	213174	0	0	3 mi.
1999	Oct	21	129N	37W	32	SWCD		.54	210112	55.8	34.2	213174	0	0	4 mi.
1999	Nov	21	129N	37W	32	SWCD		.07	210112	47.6	27.5	213174	0	0	4 mi.
1999	Dec						210112	.07	210112	30.7	12.9	213174	5.0	1.2	8 mi.
2000	Jan						210112	.08	210112	19.5	.3	213174	11.0	4.4	9 mi.
2000	Feb						210112	.78	210112	30.8	13.6	213174	8.0	5.6	9 mi.
2000	Mar	21	128N	37W	30	SWCD		1.57	210112	46.4	26.3	213174	0	0	9 mi.
2000	Apr	21	130N	37W	21	SWCD		1.73	210112	53.2	32.0	213174	m	.2	4 mi.
2000	May	21	129N	37W	32	SWCD		3.65	210112	68.1	46.5	213174	0	0	4 mi.
2000	Jun	21	130N	37W	21	SWCD		5.21	210112	72.1	51.5	213174	0	0	4 mi.

2000	Jul	21	130N	37W	21	SWCD		6.30	210112	78.4	59.7	213174	0	0	4 mi.
2000	Aug	21	129N	37W	32	SWCD		1.41	210112	79.6	57.9	213174	0	0	4 mi.
2000	Sep	21	128N	37W	4	SWCD		1.08	210112	70.6	44.9	213174	0	0	5 mi.
2000	Oct	21	130N	37W	21	SWCD		1.37	210112	58.1	38.3	213174	0	0	4 mi.
2000	Nov						210112	3.65	210112	32.7	20.9	213174	7.5	2.2	9 mi.
2000	Dec						210112	.11	210112	9.3	-6.5	213174	15.5	6.8	9 mi.
2001	Jan						210112	.55	210112	23.8	6.7	213174	8.0	11.7	8 mi.
2001	Feb						210112	.41	210112	15.3	-6.2	213174	22.0	20.3	8 mi.
2001	Mar						210112	.28	210112	30.3	13.7	213174	6.5	19.1	8 mi.
2001	Apr	21	130N	37W	21	SWCD		5.01	210112	51.8	33.7	213174	0	0	4 mi.
2001	May	21	129N	37W	32	SWCD		2.77	210112	66.9	47.2	213174	0	0	4 mi.
2001	Jun	21	130N	37W	21	SWCD		7.44	210112	75.4	56.0	213174	0	0	4 mi.
2001	Jul	21	130N	37W	21	SWCD		3.16	210112	81.6	62.4	213174	0	0	4 mi.
2001	Aug	21	129N	37W	32	SWCD		1.94	210112	82.4	58.6	213174	0	0	4 mi.
2001	Sep	21	129N	37W	32	SWCD		2.20	210112	67.3	48.5	213174	0	0	4 mi.
2001	Oct	21	130N	37W	21	SWCD		1.62	210112	55.0	35.5	213174	2.0	0	4 mi.
2001	Nov	21	128N	37W	17	SWCD		1.11	210112	49.2	31.7	213174	11.0	1.4	7 mi.
2001	Dec	77	129N	35W	12	SWCD		.46	210112	m	m	213174	4.0	2.7	16 mi.
2002	Jan	77	129N	35W	12	SWCD		.08	210112	m	m	m	m	16	mi.
2002	Feb						213174	.65	210112	m	m	m	m	24	mi.
2002	Mar						215638	m	210112	m	m	m	m	37	mi.
2002	Apr					m	m	m	m	m	999	mi.			
2002	May					m	m	m	m	m	999	mi.			
2002	Jun					m	m	m	m	m	999	mi.			
2002	Jul					m	m	m	m	m	999	mi.			
2002	Aug					m	m	m	m	m	999	mi.			
2002	Sep					m	m	m	m	m	999	mi.			
2002	Oct					m	m	m	m	m	999	mi.			
2002	Nov					m	m	m	m	m	999	mi.			
2002	Dec					m	m	m	m	m	999	mi.			

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

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You can send e-mail to the State Climatology Office.

'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is DOUGLAS OSAKIS 128N 36W S3
Lat: 45.93193 Lon: 95.18248

set location

retrieve **only** this station: 216235 OSAKIS

years: 1992 to 2002

number of **missing days** allowed per month: 3

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- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
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Target: T128 R36 S3

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan	21	128N	36w	28	WSD		.18	210112	26.1	9.6	210112	9.2	5.0	4 mi.
1992	Feb	21	128N	36w	28	WSD		.07	210112	30.9	17.0	210112	3.6	1.9	4 mi.
1992	Mar	21	128N	36w	28	WSD		1.59	210112	39.2	23.4	210112	3.1	.4	4 mi.
1992	Apr	21	128N	36w	1	SWCD		1.25	210112	49.5	32.2	210112	7.7	.8	1 mi.
1992	May	21	128N	36w	1	SWCD		2.16	210112	70.9	47.2	210112	0	0	1 mi.
1992	Jun	21	128N	36w	1	SWCD		4.69	210112	71.9	53.8	210112	0	0	1 mi.
1992	Jul	21	128N	36w	1	SWCD		2.09	210112	72.2	54.9	210112	0	0	1 mi.
1992	Aug	21	128N	36w	1	SWCD		1.42	210112	74.0	55.5	210112	0	0	1 mi.
1992	Sep	21	128N	36w	1	SWCD		1.07	210112	69.6	46.8	210112	0	0	1 mi.
1992	Oct	21	128N	36w	28	WSD		.32	210112	54.4	35.7	210112	.5	0	4 mi.
1992	Nov	21	128N	36w	28	WSD		1.19	210112	30.9	23.3	210112	7.7	3.2	4 mi.
1992	Dec	21	128N	36w	28	WSD		.55	210112	20.8	6.3	210112	10.1	5.9	4 mi.
1993	Jan	21	128N	36w	28	WSD		.78	210112	18.5	-.5	210112	10.8	15.3	4 mi.
1993	Feb	21	128N	36w	28	WSD		.36	210112	20.6	4.4	210112	1.8	11.1	4 mi.
1993	Mar	21	128N	36w	28	WSD		1.46	210112	34.8	15.7	210112	5.9	6.7	4 mi.
1993	Apr	21	128N	36w	1	SWCD		1.34	210112	52.0	32.0	210112	.8	0	1 mi.
1993	May	21	128N	36w	1	SWCD		6.00	210112	64.8	46.2	210112	0	0	1 mi.
1993	Jun	21	128N	36w	1	SWCD		4.49	210112	70.2	53.7	210112	0	0	1 mi.
1993	Jul	21	128N	36w	1	SWCD		6.90	210112	75.6	59.5	210112	0	0	1 mi.
1993	Aug	21	128N	36w	1	SWCD		2.97	210112	77.0	59.1	210112	0	0	1 mi.
1993	Sep	21	128N	36w	28	WSD		1.94	210112	63.9	43.3	210112	0	0	4 mi.
1993	Oct	21	128N	36w	28	WSD		.50	210112	53.4	33.3	210112	0	0	4 mi.
1993	Nov	21	128N	36w	28	WSD		2.26	210112	32.5	19.2	210112	8.7	1.9	4 mi.
1993	Dec	21	128N	36w	28	WSD		.61	210112	23.5	8.7	210112	9.7	9.0	4 mi.
1994	Jan	21	128N	36w	28	WSD		.62	210112	5.5	-10.5	210112	17.0	20.5	4 mi.
1994	Feb	21	128N	36w	28	WSD		.47	210112	16.9	-1.5	210112	8.1	20.3	4 mi.
1994	Mar	21	128N	36w	28	WSD		.50	210112	38.1	22.4	210112	4.9	4.5	4 mi.
1994	Apr	21	128N	36w	1	SWCD		3.82	210112	53.6	32.2	210112	3.5	.2	1 mi.

1994	May	21	128N	36W	1	SWCD	2.32	210112	70.9	47.5	210112	0	0	1 mi.
1994	Jun	21	128N	36W	1	SWCD	2.33	210112	77.6	57.6	210112	0	0	1 mi.
1994	Jul	21	128N	36W	1	SWCD	5.06	210112	77.2	59.5	210112	0	0	1 mi.
1994	Aug	21	128N	36W	1	SWCD	2.57	210112	75.4	56.5	210112	0	0	1 mi.
1994	Sep	21	128N	36W	1	SWCD	2.14	210112	70.7	52.1	210112	0	0	1 mi.
1994	Oct	21	128N	36W	28	WSD	4.30	210112	56.8	41.4	210112	0	0	4 mi.
1994	Nov	21	128N	36W	28	WSD	.77	210112	42.0	26.2	210112	4.2	.4	4 mi.
1994	Dec	21	128N	36W	28	WSD	.29	210112	27.6	13.3	210112	4.9	3.7	4 mi.
1995	Jan	21	128N	36W	28	WSD	.87	210112	19.8	3.5	210112	6.4	3.8	4 mi.
1995	Feb	21	128N	36W	28	WSD	.52	210112	23.2	2.4	210112	8.4	7.0	4 mi.
1995	Mar	21	128N	36W	28	WSD	1.53	210112	37.1	21.7	210112	15.3	4.9	4 mi.
1995	Apr	21	128N	36W	28	WSD	1.95	210112	45.5	29.3	210112	6.5	.3	4 mi.
1995	May	21	128N	36W	1	SWCD	2.54	210112	64.2	44.5	210112	0	0	1 mi.
1995	Jun	21	128N	36W	1	SWCD	3.98	210112	80.1	59.6	210112	0	0	1 mi.
1995	Jul	21	128N	36W	1	SWCD	4.72	210112	79.9	60.7	210112	0	0	1 mi.
1995	Aug	21	128N	36W	1	SWCD	2.80	210112	80.0	62.5	210112	0	0	1 mi.
1995	Sep	21	128N	36W	1	SWCD	3.68	210112	67.8	48.1	210112	0	0	1 mi.
1995	Oct	21	128N	36W	1	SWCD	1.52	210112	50.7	37.5	210112	6.0	.1	1 mi.
1995	Nov	21	128N	36W	28	WSD	.41	210112	30.1	16.1	210112	4.4	.5	4 mi.
1995	Dec	21	128N	36W	28	WSD	1.49	214861	22.2	7.3	214861	16.6	6.9	4 mi.
1996	Jan	21	128N	36W	28	WSD	1.43	214861	13.5	-8.3	214861	23.8	12.7	4 mi.
1996	Feb	21	128N	36W	28	WSD	.37	214861	23.4	4.4	214861	7.4	18.1	4 mi.
1996	Mar	21	128N	36W	28	WSD	.21	214861	30.3	11.0	214861	9.3	12.2	4 mi.
1996	Apr	21	128N	36W	28	WSD	.20	214861	49.7	27.5	214861	5.3	1.8	4 mi.
1996	May	21	128N	36W	1	SWCD	2.20	214861	65.3	43.0	214861	0	0	1 mi.
1996	Jun	21	128N	36W	1	SWCD	4.04	214861	78.5	56.1	214861	0	0	1 mi.
1996	Jul	21	128N	36W	1	SWCD	1.52	214861	79.6	56.5	214861	0	0	1 mi.
1996	Aug	21	128N	36W	1	SWCD	1.45	214861	82.2	57.5	214861	0	0	1 mi.
1996	Sep	21	128N	36W	28	WSD	3.44	214861	69.8	49.0	214861	0	0	4 mi.
1996	Oct	21	128N	36W	28	WSD	3.68	214861	59.9	36.4	214861	.1	0	4 mi.
1996	Nov	21	128N	36W	28	WSD	2.31	214861	29.3	14.3	214861	14.7	3.9	4 mi.
1996	Dec	21	128N	36W	28	WSD	.84	214861	16.3	3.1	214861	13.6	14.6	4 mi.
1997	Jan	21	128N	36W	28	WSD	.83	214861	13.8	-3.1	214861	33.4	30.1	4 mi.
1997	Feb	21	128N	36W	28	WSD	.70	214861	27.4	7.1	214861	1.0	28.9	4 mi.
1997	Mar	21	128N	36W	28	WSD	.47	214861	35.2	15.8	214861	17.8	23.7	4 mi.
1997	Apr	21	128N	36W	1	SWCD	.54	214861	52.9	29.9	214861	.3	.9	1 mi.
1997	May	21	128N	36W	1	SWCD	1.12	214861	64.4	39.5	214861	0	0	1 mi.
1997	Jun	21	128N	36W	1	SWCD	1.43	214861	81.9	56.2	214861	0	0	1 mi.
1997	Jul	21	128N	36W	1	SWCD	3.40	214861	80.2	59.7	214861	0	0	1 mi.
1997	Aug	21	128N	36W	1	SWCD	3.83	214861	77.8	56.6	214861	0	0	1 mi.
1997	Sep	21	128N	36W	28	WSD	1.32	214861	74.0	51.1	214861	0	0	4 mi.
1997	Oct	21	128N	36W	1	SWCD	3.00	214861	59.8	38.5	214861	1.0	0	1 mi.
1997	Nov	21	128N	36W	28	WSD	.68	214861	32.7	19.6	214861	12.0	3.8	4 mi.
1997	Dec	21	128N	36W	28	WSD	.52	214861	30.8	19.5	214861	6.5	.5	4 mi.
1998	Jan	21	128N	36W	28	WSD	1.00	214861	21.7	7.1	214861	14.7	6.5	4 mi.
1998	Feb	21	128N	36W	28	WSD	1.05	214861	36.3	23.7	214861	1.5	6.1	4 mi.
1998	Mar	21	128N	36W	28	WSD	.74	214861	37.5	21.6	214861	4.1	.2	4 mi.
1998	Apr	21	128N	36W	1	SWCD	.64	214861	61.8	35.3	214861	6.5	.3	1 mi.
1998	May	21	128N	36W	1	SWCD	3.07	214861	77.0	49.5	214861	0	0	1 mi.
1998	Jun	21	128N	36W	1	SWCD	4.63	214861	73.8	52.7	214861	0	0	1 mi.
1998	Jul	21	128N	36W	1	SWCD	3.01	214861	81.8	59.7	214861	0	0	1 mi.
1998	Aug	21	128N	36W	28	WSD	2.42	214861	83.4	58.9	214861	0	0	4 mi.
1998	Sep	21	128N	36W	28	WSD	.81	214861	78.1	51.7	214861	0	0	4 mi.
1998	Oct	21	128N	36W	28	WSD	4.88	214861	59.5	40.2	214861	0	0	4 mi.
1998	Nov	21	128N	36W	28	WSD	.81	214861	40.3	26.7	214861	6.0	1.2	4 mi.
1998	Dec	21	128N	36W	28	WSD	.45	214861	32.0	12.3	214861	4.1	1.1	4 mi.
1999	Jan	77	129N	35W	12	SWCD	1.58	214861	17.4	.8	214861	24.7	11.5	8 mi.
1999	Feb	77	129N	35W	12	SWCD	.22	214861	34.0	15.3	214861	1.3	8.2	8 mi.
1999	Mar	21	128N	36W	28	WSD	1.01	210112	39.2	21.9	214861	11.8	3.2	4 mi.
1999	Apr	21	128N	36W	28	WSD	1.79	210112	53.5	35.1	214861	6.5	.2	4 mi.
1999	May	21	128N	36W	1	SWCD	6.87	210112	66.0	47.3	214861	0	0	1 mi.
1999	Jun	21	128N	36W	1	SWCD	3.13	210112	74.2	56.0	214861	0	0	1 mi.
1999	Jul	21	128N	36W	1	SWCD	2.30	210112	82.7	61.5	214861	0	0	1 mi.
1999	Aug	21	128N	36W	1	SWCD	5.58	210112	77.6	58.5	214861	0	0	1 mi.
1999	Sep	21	128N	37W	4	SWCD	3.35	210112	65.7	46.8	214861	0	0	7 mi.
1999	Oct	21	128N	37W	4	SWCD	.52	210112	55.8	34.2	214861	0	0	7 mi.
1999	Nov	77	129N	35W	12	SWCD	.19	210112	47.6	27.5	214861	0	0	8 mi.
1999	Dec	77	129N	35W	12	SWCD	.29	210112	30.7	12.9	214861	6.0	1.2	8 mi.
2000	Jan	77	129N	35W	12	SWCD	.57	210112	19.5	.3	214861	11.3	4.4	8 mi.
2000	Feb	77	129N	35W	12	SWCD	1.39	210112	30.8	13.6	214861	9.7	5.6	8 mi.
2000	Mar	21	128N	36W	1	SWCD	1.45	210112	46.4	26.3	214861	.5	0	1 mi.
2000	Apr	21	128N	37W	4	SWCD	1.18	210112	53.2	32.0	214861	6.0	.2	7 mi.
2000	May	21	128N	36W	1	SWCD	2.32	210112	68.1	46.5	214861	0	0	1 mi.
2000	Jun	21	128N	36W	1	SWCD	3.65	210112	72.1	51.5	214861	0	0	1 mi.

2000	Jul	21	128N	37W	4	SWCD			6.48	210112	78.4	59.7	214861	0	0 7 mi.
2000	Aug	21	128N	36W	1	SWCD			1.06	210112	79.6	57.9	214861	0	0 1 mi.
2000	Sep	21	128N	36W	1	SWCD			1.15	210112	70.6	44.9	214861	0	0 1 mi.
2000	Oct	21	128N	36W	1	SWCD			1.37	210112	58.1	38.3	214861	0	0 1 mi.
2000	Nov	77	129N	35W	12	SWCD			4.09	210112	32.7	20.9	214861	7.9	2.2 8 mi.
2000	Dec	77	129N	35W	12	SWCD			.90	210112	9.3	-6.5	214861	16.1	6.8 8 mi.
2001	Jan	77	129N	35W	12	SWCD			.98	210112	23.8	6.7	214861	8.9	11.7 8 mi.
2001	Feb	77	129N	35W	12	SWCD			1.51	210112	15.3	-6.2	214861	29.1	20.3 8 mi.
2001	Mar	77	129N	35W	12	SWCD			.50	210112	30.3	13.7	214861	6.6	19.1 8 mi.
2001	Apr	21	128N	36W	1	SWCD			7.13	210112	51.8	33.7	214861	0	2.3 1 mi.
2001	May	21	128N	36W	1	SWCD			3.07	210112	66.9	47.2	214861	0	0 1 mi.
2001	Jun	21	128N	36W	1	SWCD			5.33	210112	75.4	56.0	214861	0	0 1 mi.
2001	Jul	21	128N	36W	1	SWCD			2.81	210112	81.6	62.4	214861	0	0 1 mi.
2001	Aug	21	128N	36W	1	SWCD			1.85	210112	82.4	58.6	214861	0	0 1 mi.
2001	Sep	21	128N	36W	1	SWCD			1.23	210112	67.3	48.5	214861	0	0 1 mi.
2001	Oct	21	128N	37W	4	SWCD			1.50	210112	55.0	35.5	214861	.5	0 7 mi.
2001	Nov	77	129N	35W	12	SWCD			2.08	210112	49.2	31.7	214861	13.0	1.5 8 mi.
2001	Dec	77	129N	35W	12	SWCD			.46	210112	m	m	214861	3.5	2.7 8 mi.
2002	Jan	77	129N	35W	12	SWCD			.08	210112	m	m	m	m	8 mi.
2002	Feb						214861		1.56	210112	m	m	m	m	15 mi.
2002	Mar						218005		m	210112	m	m	m	m	36 mi.
2002	Apr					m	m	m	m	m	999 mi.				
2002	May					m	m	m	m	m	999 mi.				
2002	Jun					m	m	m	m	m	999 mi.				
2002	Jul					m	m	m	m	m	999 mi.				
2002	Aug					m	m	m	m	m	999 mi.				
2002	Sep					m	m	m	m	m	999 mi.				
2002	Oct					m	m	m	m	m	999 mi.				
2002	Nov					m	m	m	m	m	999 mi.				
2002	Dec					m	m	m	m	m	999 mi.				

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

return to retrieval selection

State Climatology Office - MnDNR - Waters, 1996-2001
You can send e-mail to the State Climatology Office.

'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is DOUGLAS EVANSVILLE 129N 40W S3
Lat: 46.01066 Lon: 95.69000

set location

retrieve **only** this station: 210300 ASHBY

years: 1992 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly get daily

Target: T129 R40 S3

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan	56	131N	41W	21	SWCD		.97	210112	26.1	9.6	210112	9.2	5.0	11 mi.
1992	Feb	56	131N	41W	21	SWCD		.44	210112	30.9	17.0	210112	3.6	1.9	11 mi.
1992	Mar	56	131N	41W	21	SWCD		1.50	210112	39.2	23.4	210112	3.1	.4	11 mi.
1992	Apr	21	130N	39W	29	SWCD		2.42	210112	49.5	32.2	210112	7.7	.8	4 mi.
1992	May	21	129N	40W	25	SWCD		.97	210112	70.9	47.2	210112	0	0	4 mi.
1992	Jun	21	129N	40W	25	SWCD		3.83	210112	71.9	53.8	210112	0	0	4 mi.
1992	Jul	21	129N	40W	25	SWCD		1.70	210112	72.2	54.9	210112	0	0	4 mi.
1992	Aug	21	129N	40W	25	SWCD		1.82	210112	74.0	55.5	210112	0	0	4 mi.
1992	Sep	21	129N	40W	25	SWCD		1.41	210112	69.6	46.8	210112	0	0	4 mi.
1992	Oct	21	129N	40W	25	SWCD		.10	210112	54.4	35.7	210112	.5	0	4 mi.
1992	Nov	56	131N	41W	21	SWCD		1.24	210112	30.9	23.3	210112	7.7	3.2	11 mi.
1992	Dec						210112	1.01	210112	20.8	6.3	210112	10.1	5.9	17 mi.
1993	Jan						210112	1.01	210112	18.5	-.5	210112	10.8	15.3	16 mi.
1993	Feb						210112	.18	210112	20.6	4.4	210112	1.8	11.1	16 mi.
1993	Mar	56	131N	38W	35	SWCD		.10	210112	34.8	15.7	210112	5.9	6.7	14 mi.
1993	Apr	21	129N	40W	25	SWCD		2.17	210112	52.0	32.0	210112	.8	0	4 mi.
1993	May	21	129N	40W	25	SWCD		5.70	210112	64.8	46.2	210112	0	0	4 mi.
1993	Jun	21	129N	40W	25	SWCD		5.36	210112	70.2	53.7	210112	0	0	4 mi.
1993	Jul	21	129N	40W	25	SWCD		9.41	210112	75.6	59.5	210112	0	0	4 mi.
1993	Aug	21	129N	40W	25	SWCD		3.24	210112	77.0	59.1	210112	0	0	4 mi.
1993	Sep	21	129N	40W	25	SWCD		2.09	210112	63.9	43.3	210112	0	0	4 mi.
1993	Oct	21	129N	40W	25	SWCD		.32	210112	53.4	33.3	210112	0	0	4 mi.
1993	Nov	56	132N	40W	36	SWCD		1.13	210112	32.5	19.2	210112	8.7	1.9	13 mi.
1993	Dec	21	129N	37W	32	SWCD		.95	210112	23.5	8.7	210112	9.7	9.0	16 mi.
1994	Jan						210112	.59	210112	5.5	-10.5	210112	17.0	20.5	16 mi.
1994	Feb						210112	.56	210112	16.9	-1.5	210112	8.1	20.3	16 mi.
1994	Mar	21	129N	37W	32	SWCD		.84	210112	38.1	22.4	210112	4.9	4.5	16 mi.
1994	Apr	21	129N	39W	14	SWCD		3.49	210112	53.6	32.2	210112	3.5	.2	6 mi.

1994	May	21	129N	40w	25	SWCD			1.35	210112	70.9	47.5	210112	0	0	4 mi.
1994	Jun	21	129N	40w	25	SWCD			2.80	210112	77.6	57.6	210112	0	0	4 mi.
1994	Jul	21	129N	40w	25	SWCD			4.51	210112	77.2	59.5	210112	0	0	4 mi.
1994	Aug	21	129N	40w	25	SWCD			3.02	210112	75.4	56.5	210112	0	0	4 mi.
1994	Sep	21	129N	40w	25	SWCD			1.62	210112	70.7	52.1	210112	0	0	4 mi.
1994	Oct	21	130N	40w	17	SWCD			2.91	210112	56.8	41.4	210112	0	0	4 mi.
1994	Nov	56	131N	40w	2	SWCD			.64	210112	42.0	26.2	210112	4.2	.4	12 mi.
1994	Dec							210112	.40	210112	27.6	13.3	210112	4.9	3.7	16 mi.
1995	Jan							210112	1.05	210112	19.8	3.5	210112	6.4	3.8	16 mi.
1995	Feb	21	129N	37w	32	SWCD			.48	210112	23.2	2.4	210112	8.4	7.0	16 mi.
1995	Mar							210112	1.87	210112	37.1	21.7	210112	15.3	4.9	16 mi.
1995	Apr	21	129N	39w	14	SWCD			1.74	210112	45.5	29.3	210112	6.5	.3	6 mi.
1995	May	21	129N	40w	25	SWCD			2.63	210112	64.2	44.5	210112	0	0	4 mi.
1995	Jun	21	129N	40w	25	SWCD			2.35	210112	80.1	59.6	210112	0	0	4 mi.
1995	Jul	21	129N	40w	25	SWCD			5.82	210112	79.9	60.7	210112	0	0	4 mi.
1995	Aug	21	129N	40w	25	SWCD			2.75	210112	80.0	62.5	210112	0	0	4 mi.
1995	Sep	21	129N	40w	25	SWCD			2.76	210112	67.8	48.1	210112	0	0	4 mi.
1995	Oct	21	129N	39w	14	SWCD			3.88	210112	50.7	37.5	210112	6.0	.1	6 mi.
1995	Nov	21	129N	37w	32	SWCD			.63	210112	30.1	16.1	210112	4.4	.5	16 mi.
1995	Dec	21	129N	37w	32	SWCD			1.73	212768	21.4	9.9	212768	10.0	4.7	16 mi.
1996	Jan	21	129N	37w	32	SWCD			1.19	212768	9.4	-10.7	212768	26.0	13.9	16 mi.
1996	Feb	21	129N	37w	32	SWCD			.33	212768	19.5	2.1	212768	11.0	12.6	16 mi.
1996	Mar	21	129N	37w	32	SWCD			.41	212768	25.2	9.6	212768	15.1	6.1	16 mi.
1996	Apr	21	129N	40w	25	SWCD			.55	212768	46.8	29.4	212768	0	.5	4 mi.
1996	May	21	129N	40w	25	SWCD			3.45	212768	62.8	45.0	212768	0	0	4 mi.
1996	Jun	21	129N	40w	25	SWCD			1.64	212768	77.6	58.1	212768	0	0	4 mi.
1996	Jul	21	129N	40w	25	SWCD			1.46	212768	79.9	58.6	212768	0	0	4 mi.
1996	Aug	21	129N	40w	25	SWCD			1.43	213174	82.9	57.6	213174	0	0	4 mi.
1996	Sep	21	129N	40w	25	SWCD			3.91	212768	69.4	50.5	212768	0	0	4 mi.
1996	Oct	21	129N	40w	25	SWCD			3.20	212768	57.2	37.2	212768	0	0	4 mi.
1996	Nov	56	131N	40w	2	SWCD			1.50	212768	25.9	11.9	212768	19.3	2.1	12 mi.
1996	Dec	21	129N	37w	32	SWCD			.43	212768	15.3	2.5	212768	18.5	22.3	16 mi.
1997	Jan	21	129N	37w	32	SWCD			1.30	212768	12.1	-4.2	212768	34.5	51.8	16 mi.
1997	Feb	21	129N	37w	32	SWCD			.05	212768	23.1	5.4	213174	3.5	57.5	16 mi.
1997	Mar	21	129N	37w	32	SWCD			1.54	212768	30.4	13.0	212768	29.0	56.3	16 mi.
1997	Apr	21	130N	39w	29	SWCD			1.26	212768	48.4	30.1	213174	2.0	.9	4 mi.
1997	May	21	130N	39w	29	SWCD			1.39	212768	62.5	41.6	212768	0	0	4 mi.
1997	Jun	21	130N	39w	29	SWCD			3.01	212768	79.1	60.5	212768	0	0	4 mi.
1997	Jul	21	130N	39w	29	SWCD			3.34	212768	76.9	60.5	212768	0	0	4 mi.
1997	Aug	21	130N	39w	29	SWCD			3.21	212768	75.5	57.1	212768	0	0	4 mi.
1997	Sep	21	130N	39w	29	SWCD			1.70	212768	72.8	50.5	212768	0	0	4 mi.
1997	Oct	21	130N	40w	17	SWCD			2.62	212768	57.2	37.7	212768	0	0	4 mi.
1997	Nov	56	131N	40w	2	SWCD			.20	212768	28.7	18.5	213174	8.5	1.8	12 mi.
1997	Dec	26	129N	42w	9	SWCD			.28	212768	28.7	18.3	212768	5.0	1.4	13 mi.
1998	Jan	26	129N	42w	9	SWCD			.85	212768	18.0	4.7	212768	12.1	10.1	13 mi.
1998	Feb	26	129N	42w	9	SWCD			1.15	212768	32.1	24.2	212768	4.0	5.6	13 mi.
1998	Mar	26	127N	41w	2	SWCD			.88	212768	31.9	21.0	212768	2.0	2.9	12 mi.
1998	Apr	21	129N	39w	24	SWCD			.41	212768	57.8	37.6	212768	5.0	.2	8 mi.
1998	May	21	130N	39w	29	SWCD			4.37	212768	71.4	49.3	212768	0	0	4 mi.
1998	Jun	21	130N	39w	29	SWCD			5.27	212768	69.6	53.1	212768	0	0	4 mi.
1998	Jul	21	130N	39w	29	SWCD			5.18	212768	78.9	60.2	212768	0	0	4 mi.
1998	Aug	21	130N	39w	29	SWCD			1.93	212768	81.5	59.9	212768	0	0	4 mi.
1998	Sep	21	130N	39w	29	SWCD			1.89	212768	78.1	51.6	212768	0	0	4 mi.
1998	Oct	21	130N	39w	29	SWCD			6.77	212768	56.7	38.8	212768	0	0	4 mi.
1998	Nov	26	127N	41w	2	SWCD			1.23	212768	37.2	26.2	212768	8.1	2.6	12 mi.
1998	Dec	26	129N	42w	9	SWCD			.60	212768	28.9	12.2	212768	4.0	.9	13 mi.
1999	Jan	26	129N	42w	9	SWCD			1.47	212768	15.1	-.2	212768	22.0	8.1	13 mi.
1999	Feb	26	129N	42w	9	SWCD			.04	212768	30.3	13.5	213174	1.5	11.5	13 mi.
1999	Mar	26	129N	42w	9	SWCD			1.42	210112	39.2	21.9	212768	7.0	1.9	13 mi.
1999	Apr	21	129N	39w	24	SWCD			1.42	210112	53.5	35.1	212768	0	0	8 mi.
1999	May	21	130N	39w	29	SWCD			4.61	210112	66.0	47.3	213174	0	0	4 mi.
1999	Jun	21	130N	39w	29	SWCD			6.67	210112	74.2	56.0	212768	0	0	4 mi.
1999	Jul	21	130N	39w	29	SWCD			4.61	210112	82.7	61.5	212768	0	0	4 mi.
1999	Aug	21	130N	39w	29	SWCD			4.84	210112	77.6	58.5	212768	0	0	4 mi.
1999	Sep	21	130N	40w	17	SWCD			4.97	210112	65.7	46.8	212768	0	0	4 mi.
1999	Oct	21	130N	39w	29	SWCD			.35	210112	55.8	34.2	212768	0	0	4 mi.
1999	Nov	26	129N	42w	9	SWCD			0	210112	47.6	27.5	212768	0	0	13 mi.
1999	Dec	26	129N	42w	9	SWCD			.15	210112	30.7	12.9	212768	7.0	0	13 mi.
2000	Jan	26	129N	42w	9	SWCD			1.10	210112	19.5	.3	212768	7.4	4.3	13 mi.
2000	Feb	26	129N	42w	9	SWCD			1.61	210112	30.8	13.6	212768	14.2	5.8	13 mi.
2000	Mar	26	130N	41w	10	SWCD			1.09	210112	46.4	26.3	212768	5.5	.7	8 mi.
2000	Apr	21	130N	39w	29	SWCD			1.96	210112	53.2	32.0	212768	5.3	.2	4 mi.
2000	May	21	129N	39w	24	SWCD			3.30	210112	68.1	46.5	212768	0	0	8 mi.
2000	Jun	21	130N	39w	29	SWCD			4.39	210112	72.1	51.5	212768	0	0	4 mi.

2000	Jul	21	130N	39W	29	SWCD			7.08	210112	78.4	59.7	212768	0	0 4 mi.
2000	Aug	21	130N	39W	29	SWCD			2.09	210112	79.6	57.9	212768	0	0 4 mi.
2000	Sep	21	130N	39W	29	SWCD			1.94	210112	70.6	44.9	212768	0	0 4 mi.
2000	Oct	21	130N	39W	29	SWCD			1.34	210112	58.1	38.3	212768	0	0 4 mi.
2000	Nov	26	130N	41W	10	SWCD			2.68	210112	32.7	20.9	212768	10.8	.7 8 mi.
2000	Dec	26	129N	42W	9	SWCD			1.20	210112	9.3	-6.5	212768	13.1	5.3 13 mi.
2001	Jan	26	129N	42W	9	SWCD			1.00	210112	23.8	6.7	212768	7.1	5.5 13 mi.
2001	Feb	26	129N	42W	9	SWCD			1.28	210112	15.3	-6.2	212768	14.5	15.2 13 mi.
2001	Mar	26	129N	42W	9	SWCD			.50	210112	30.3	13.7	212768	3.5	8.8 13 mi.
2001	Apr	21	130N	39W	29	SWCD			4.54	210112	51.8	33.7	212768	3.5	0 4 mi.
2001	May	21	130N	39W	29	SWCD			4.19	210112	66.9	47.2	212768	0	0 4 mi.
2001	Jun	21	130N	39W	29	SWCD			10.81	210112	75.4	56.0	212768	0	0 4 mi.
2001	Jul	21	130N	39W	29	SWCD			3.21	210112	81.6	62.4	212768	0	0 4 mi.
2001	Aug	21	130N	40W	17	SWCD			2.29	210112	82.4	58.6	212768	0	0 4 mi.
2001	Sep	21	130N	39W	29	SWCD			3.60	210112	67.3	48.5	212768	0	0 4 mi.
2001	Oct	21	130N	39W	29	SWCD			1.85	210112	55.0	35.5	212768	0	.5 4 mi.
2001	Nov	21	130N	39W	29	SWCD			.92	210112	49.2	31.7	212768	10.5	.9 4 mi.
2001	Dec	26	127N	42W	22	SWCD			.65	210112	m	m	212768	4.0	2.8 18 mi.
2002	Jan	26	129N	42W	9	SWCD			.06	210112	m	m	m	m	13 mi.
2002	Feb						212768		.62	210112	m	m	m	m	25 mi.
2002	Mar						212768		m	210112	m	m	m	m	26 mi.
2002	Apr					m	m	m	m	m	999 mi.				
2002	May					m	m	m	m	m	999 mi.				
2002	Jun					m	m	m	m	m	999 mi.				
2002	Jul					m	m	m	m	m	999 mi.				
2002	Aug					m	m	m	m	m	999 mi.				
2002	Sep					m	m	m	m	m	999 mi.				
2002	Oct					m	m	m	m	m	999 mi.				
2002	Nov					m	m	m	m	m	999 mi.				
2002	Dec					m	m	m	m	m	999 mi.				

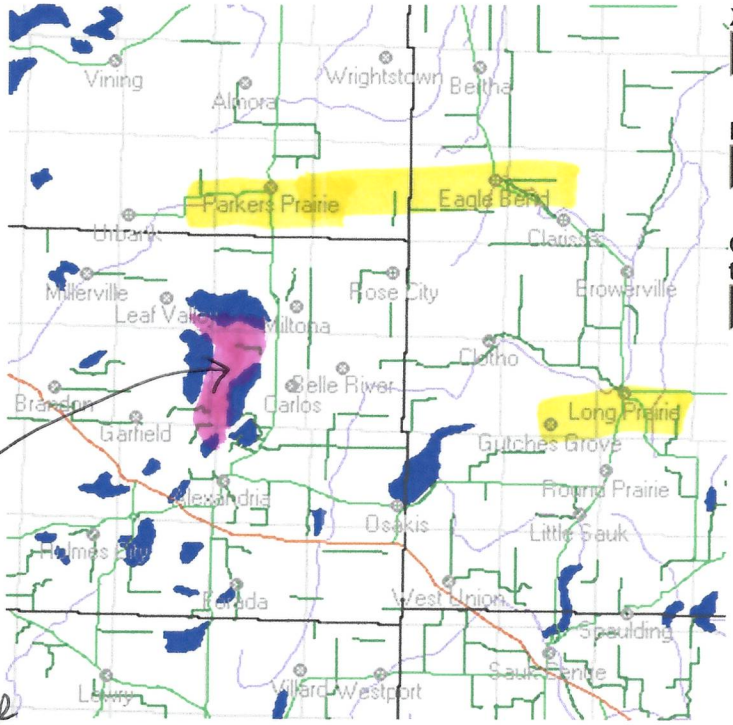
Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

return to retrieval selection

State Climatology Office - MnDNR - Waters, 1996-2001
You can send e-mail to the State Climatology Office.

Minnesota location selector

To set a location click in map or fill in values and click 'update locs'.



X/Yutm:

lat/longitude:

OTTER TAIL PARKERS PRAIRIE
township/range/section:

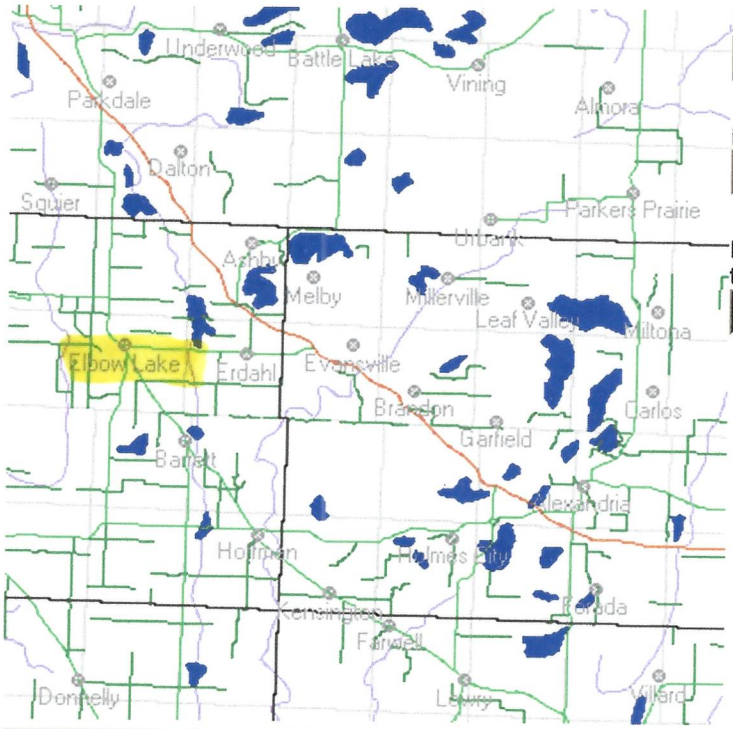
done/return cancel

LAKES AREA
210116
ALEXANDRIA WASTEWATER PUMPING STATION

State Climatology Office - MnDNR - Waters, 1999
Latitude/Longitude and UTM values are all NAD83.
mail: State Climatology Office

Minnesota location selector

To set a location click in map or fill in values and click 'update locs'.



X/Yutm:

lat/longitude:

DOUGLAS IDA
township/range/section:

done/return cancel

State Climatology Office - MnDNR - Waters, 1999
Latitude/Longitude and UTM values are all NAD83.
mail: State Climatology Office

'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is DOUGLAS CARLOS 129N 37W S17
Lat: 45.98170 Lon: 95.37228

set location

retrieve **only** this station: 210116 ALEXANDRIA WASTEWAT

years: 1999 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly | get daily

RAIN FALL

Hi & LOW AVERAGE MEAN MONTHLY TEMP.

SNOW-FALL

Target: T129 R37 S17

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1999 Jan	21	127N	38W	26	SWCD			.95	213174	18.2	2.3	213174	20.0	11.5	14 mi.
1999 Feb	21	129N	37W	32	SWCD			.06	213174	35.1	20.0	213174	1.5	8.2	2 mi.
1999 Mar							210112	.83	210112	39.2	21.9	213174	6.5	3.2	6 mi.
1999 Apr	21	128N	37W	4	SWCD			1.11	210112	53.5	35.1	213174	1.0	0	4 mi.
1999 May	21	129N	37W	32	SWCD			4.93	210112	66.0	47.3	213174	0	0	2 mi.
1999 Jun	21	129N	37W	32	SWCD			4.02	210112	74.2	56.0	213174	0	0	2 mi.
1999 Jul	21	128N	37W	4	SWCD			2.14	210112	82.7	61.5	213174	0	0	4 mi.
1999 Aug	21	129N	37W	32	SWCD			3.88	210112	77.6	58.5	213174	0	0	2 mi.
1999 Sep	21	129N	38W	26	SWCD			3.46	210112	65.7	46.8	213174	0	0	3 mi.
1999 Oct	21	129N	37W	32	SWCD			.54	210112	55.8	34.2	213174	0	0	2 mi.
1999 Nov	21	129N	37W	32	SWCD			.07	210112	47.6	27.5	213174	0	0	2 mi.
1999 Dec							210112	.07	210112	30.7	12.9	213174	5.0	1.2	6 mi.
2000 Jan							210112	.08	210112	19.5	.3	213174	11.0	4.4	7 mi.
2000 Feb							210112	.78	210112	30.8	13.6	213174	8.0	5.6	7 mi.
2000 Mar	21	128N	37W	30	SWCD			1.57	210112	46.4	26.3	213174	0	0	7 mi.
2000 Apr	21	128N	37W	4	SWCD			1.18	210112	53.2	32.0	213174	m	.2	4 mi.
2000 May	21	129N	37W	32	SWCD			3.65	210112	68.1	46.5	213174	0	0	2 mi.
2000 Jun	21	128N	37W	4	SWCD			3.87	210112	72.1	51.5	213174	0	0	4 mi.
2000 Jul	21	128N	37W	4	SWCD			6.48	210112	78.4	59.7	213174	0	0	4 mi.
2000 Aug	21	129N	37W	32	SWCD			1.41	210112	79.6	57.9	213174	0	0	2 mi.
2000 Sep	21	128N	37W	4	SWCD			1.08	210112	70.6	44.9	213174	0	0	4 mi.
2000 Oct	21	128N	37W	4	SWCD			1.40	210112	58.1	38.3	213174	0	0	4 mi.
2000 Nov							210112	3.65	210112	32.7	20.9	213174	7.5	2.2	7 mi.
2000 Dec							210112	.11	210112	9.6	-6.5	213174	15.5	6.8	7 mi.
2001 Jan							210112	.55	210112	23.8	6.7	213174	8.0	11.7	6 mi.
2001 Feb							210112	.41	210112	15.3	-6.2	213174	22.0	20.3	6 mi.
2001 Mar							210112	.28	210112	30.3	13.7	213174	6.5	19.1	6 mi.
2001 Apr	21	128N	37W	4	SWCD			4.48	210112	51.8	33.7	213174	0	0	4 mi.
2001 May	21	129N	37W	32	SWCD			2.77	210112	66.9	47.2	213174	0	0	2 mi.
2001 Jun	21	128N	37W	4	SWCD			5.56	210112	75.4	56.0	213174	0	0	4 mi.
2001 Jul	21	128N	37W	4	SWCD			3.42	210112	81.6	62.4	213174	0	0	4 mi.
2001 Aug	21	129N	37W	32	SWCD			1.94	210112	82.4	58.6	213174	0	0	2 mi.
2001 Sep	21	129N	37W	32	SWCD			2.20	210112	67.3	48.5	213174	0	0	2 mi.

2001	Oct	21	128N	37W	4	SWCD		1.50	210112	55.0	35.5	213174	2.0	0	4 mi.
2001	Nov	21	128N	37W	17	SWCD		1.11	210112	49.2	31.7	213174	11.0	1.4	5 mi.
2001	Dec						210112	.21	210112	28.3	14.7	213174	4.0	2.7	7 mi.
2002	Jan						210112	0	210112	27.1	10.7	213174	2.5	.5	7 mi.
2002	Feb	21	129N	37W	32	SWCD		.65	210112	34.2	15.2	213174	6.0	1.3	2 mi.
2002	Mar	77	129N	35W	12	SWCD		1.47	210112	25.3	9.8	m	m	16 mi.	
2002	Apr						215638	m	210112	50.9	32.7	m	m	36 mi.	
2002	May						210112	m	210112	m	m	m	m	7 mi.	
2002	Jun					m	m	m	m	m	999 mi.				
2002	Jul					m	m	m	m	m	999 mi.				
2002	Aug					m	m	m	m	m	999 mi.				
2002	Sep					m	m	m	m	m	999 mi.				
2002	Oct					m	m	m	m	m	999 mi.				
2002	Nov					m	m	m	m	m	999 mi.				
2002	Dec					m	m	m	m	m	999 mi.				

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

return to retrieval selection

State Climatology Office - MnDNR - Waters, 1996-2001
You can send e-mail to the State Climatology Office.

North St.Paul, Minnesota Climatology

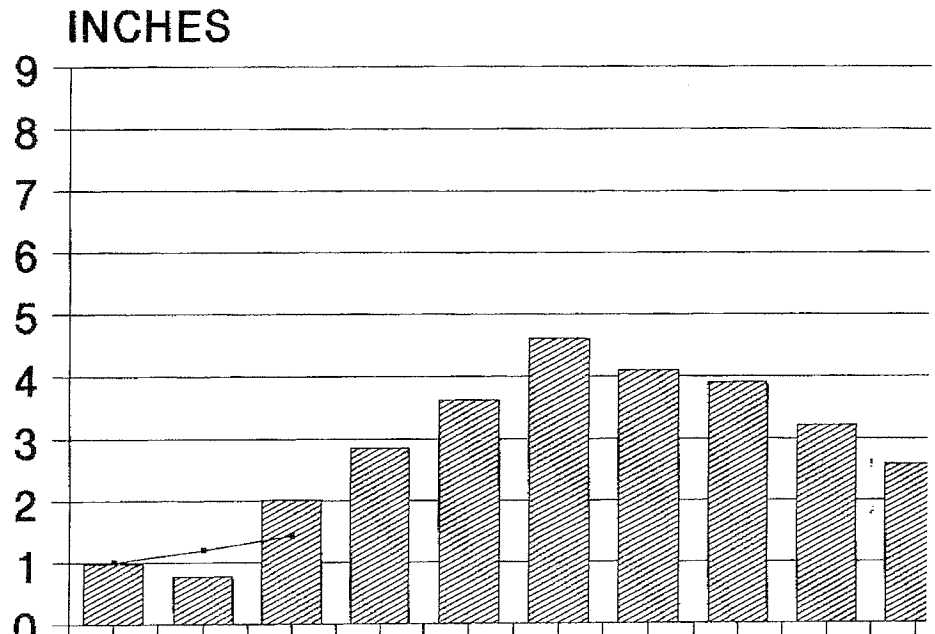
Normal and Extremes for the Period 1962-1995

Latitude 45 01 36 North Longitude 93 00 23 West Elevaton 982 MSL (299 Meters)
Township 29 North 22 West

	JA	FB	MA	AP	MY	JU	JY	AU	SP
Temperature (f)									
Month Mean	11.5	17.4	30.4	45.5	58.0	66.8	71.5	68.9	59.4
Mean Max	20.7	27.0	39.9	56.4	69.2	77.7	82.1	79.3	69.5
Mean Min	2.3	7.8	20.9	34.6	46.7	56.0	61.0	58.6	49.2
Hottest	55	58	83	93	93	99	102	99	97
Year	1981	1981	1986	1980	1969	1985	1988	1988	1978
Coldest	-30	-33	-17	3	19	33	44	38	26
Year	1994	1996	1962	1995	1967	1964	1972	1964	1974
Precipitation (in)									
Month Mean	0.92	0.82	2.04	2.86	3.63	4.62	4.10	3.91	3.22
Most Ever	3.19	2.75	6.97	6.62	8.74	12.47	12.98	8.20	6.65
Least Ever	0.11	0.01	0.36	0.21	0.51	0.51	0.47	0.92	0.36
Snowfall (in)									
Month Mean	12.2	8.6	11.2	3.3	T	0.0	0.0	0.0	T
Most Ever	39.0	25.0	36.3	25.8	0.4	0.0	0.0	0.0	T
Least Ever	1.7	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Mean Days With									
Thunder	0.1	0.2	1.1	2.4	5.1	7.6	7.5	6.5	4.5
Fog	2.7	2.9	3.3	2.5	2	1.2	1.8	2.7	3.1
Precipitation	8.4	6.3	9.0	10.9	12.2	11.6	10.2	10.3	10.4

MONTHLY PRECIPIT

NORTH ST.PAUL, M



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OC
ACTUAL 2000	1	1.2	1.43							
30 YEAR AVERAGE	0.98	0.77	2.02	2.86	3.63	4.62	4.1	3.91	3.22	2.5

ACTUAL 2000 30 YEAR AV

31.51"

North St. Paul,Mn Climatological Summary for 1997

North St.Paul,Mn - Climatological Summary for 1997

	Avg Max	Avg Min	Mean	Dep	Precip	Dep	Snowfall	Max	Min
January	20.3	3.0	11.7	+.1	2.09	+1.11	15.8	40	-16
February	30.3	13.5	21.9	+4.1	.18	-.59	4.2	49	-3
March	39.7	21.6	30.7	+.3	1.68	-.34	15.5	66	-5
April	55.5	32.5	44.0	-1.6	.84	-2.02	.3	71	7
May	64.5	42.4	53.5	-4.5	2.01	-1.62	T	82	29
June	79.5	58.7	69.1	+2.1	5.22	+.60	0	90	51
July	78.1	61.4	69.8	-1.8	8.18	+4.08	0	92	48
August	76.3	58.7	67.5	-1.5	5.41	+1.50	0	90	50
September	71.1	52.8	62.0	+2.5	3.53	+.31	0	85	40
October	59.8	40.9	50.4	+2.2	2.55	-.04	.2	88	15
November	35.2	22.0	28.6	-3.5	.61	-1.11	11.1	47	3
December	33.7	20.6	27.2	+9.6	.24	-.85	3.6	48	-4
Year	53.7	35.7	44.7	+.8	32.54	+1.03	50.7	92	-16

'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is OTTER TAIL ELMO 132N 37W S27
Lat: 46.22107 Lon: 95.33071

set location

retrieve **only** this station: 218579 WADENA 3S

years: 1992 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly get daily

Target: T132 R37 S27

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan	77	131N	35W	1	SWCD		.40	218579	24.4	5.4	218579	7.3	3.7	14 mi.
1992	Feb	77	131N	35W	1	SWCD		.27	218579	29.0	12.9	218579	5.9	4.2	14 mi.
1992	Mar	77	131N	35W	1	SWCD		1.74	218579	39.0	20.0	218579	1.7	.1	14 mi.
1992	Apr	56	132N	36W	30	SWCD		1.10	218579	48.1	27.5	218579	3.0	.3	3 mi.
1992	May	56	132N	36W	30	SWCD		1.49	218579	70.9	43.0	218579	0	0	3 mi.
1992	Jun	56	132N	36W	30	SWCD		4.32	218579	71.1	48.6	218579	0	0	3 mi.
1992	Jul	56	132N	36W	30	SWCD		2.09	218579	69.7	50.4	218579	0	0	3 mi.
1992	Aug	56	132N	36W	30	SWCD		2.30	218579	72.3	50.7	218579	0	0	3 mi.
1992	Sep	56	132N	36W	30	SWCD		2.11	218579	66.7	42.3	218579	0	0	3 mi.
1992	Oct	56	131N	38W	35	SWCD		.15	218579	55.3	28.9	218579	4.5	.2	8 mi.
1992	Nov	77	131N	35W	1	SWCD		1.24	218579	30.4	20.8	218579	16.6	3.1	14 mi.
1992	Dec	77	131N	35W	1	SWCD		1.62	218579	20.0	2.4	218579	7.8	3.5	14 mi.
1993	Jan	77	132N	35W	25	SWCD		1.13	218579	17.1	-5.8	218579	19.1	14.0	14 mi.
1993	Feb	77	132N	35W	25	SWCD		.20	218579	19.9	-1.2	218579	2.1	14.4	14 mi.
1993	Mar	56	131N	38W	35	SWCD		.10	218579	32.7	9.2	218579	8.8	9.1	8 mi.
1993	Apr	56	131N	38W	35	SWCD		1.11	218579	51.2	28.4	218579	1.0	0	8 mi.
1993	May	56	132N	36W	30	SWCD		6.73	218579	63.6	41.9	218579	0	0	3 mi.
1993	Jun	56	132N	36W	30	SWCD		5.26	218579	67.8	50.7	218579	0	0	3 mi.
1993	Jul	56	132N	36W	30	SWCD		5.22	218579	72.6	56.4	218579	0	0	3 mi.
1993	Aug	56	131N	38W	35	SWCD		6.26	218579	75.1	54.7	218579	0	0	8 mi.
1993	Sep	56	132N	39W	13	SWCD		1.30	218579	60.6	40.1	218579	0	0	9 mi.
1993	Oct	56	132N	39W	13	SWCD		1.50	218579	53.1	29.1	218579	0	0	9 mi.
1993	Nov	77	132N	35W	25	SWCD		1.57	218579	30.5	12.8	218579	25.5	3.7	14 mi.
1993	Dec	77	132N	35W	25	SWCD		.57	218579	20.5	5.7	218579	6.5	13.6	14 mi.
1994	Jan	77	132N	35W	25	SWCD		.70	218579	5.8	-15.1	218579	14.7	21.4	14 mi.
1994	Feb	77	132N	35W	25	SWCD		.46	218579	14.5	-8.6	218579	7.9	20.6	14 mi.
1994	Mar	77	132N	35W	25	SWCD		1.03	218579	35.6	18.9	218579	6.2	5.4	14 mi.
1994	Apr	56	132N	39W	13	SWCD		2.90	218579	53.0	29.9	218579	8.0	.3	9 mi.

1994	May	56	132N	36W	30	SWCD	1.11	218579	68.6	43.8	218579	0	0	3 mi.
1994	Jun	56	131N	38W	35	SWCD	3.96	218579	75.3	53.9	218579	0	0	8 mi.
1994	Jul	56	132N	36W	30	SWCD	3.71	218579	75.4	56.2	218579	0	0	3 mi.
1994	Aug	56	132N	36W	30	SWCD	2.42	218579	74.9	52.2	218579	0	0	3 mi.
1994	Sep	56	132N	36W	30	SWCD	1.72	218579	70.4	47.1	218579	0	0	3 mi.
1994	Oct	56	132N	36W	30	SWCD	3.62	218579	56.6	38.4	218579	0	0	3 mi.
1994	Nov	56	131N	38W	35	SWCD	.90	218579	41.2	23.5	218579	5.6	.5	8 mi.
1994	Dec	77	132N	35W	25	SWCD	.29	218579	28.6	10.4	218579	5.0	1.0	14 mi.
1995	Jan	77	132N	35W	25	SWCD	.82	218579	17.6	-.3	218579	7.5	3.7	14 mi.
1995	Feb	77	132N	35W	25	SWCD	.39	218579	21.0	-3.1	218579	7.8	7.4	14 mi.
1995	Mar	77	132N	35W	25	SWCD	1.05	218579	35.5	16.5	218579	25.7	3.9	14 mi.
1995	Apr	21	130N	37W	21	SWCD	1.90	218579	45.1	26.2	218579	5.3	.3	11 mi.
1995	May	56	132N	36W	30	SWCD	3.02	218579	63.7	41.0	218579	0	0	3 mi.
1995	Jun	56	132N	36W	30	SWCD	1.49	218579	79.5	57.3	218579	0	0	3 mi.
1995	Jul	56	132N	36W	30	SWCD	5.37	218579	77.1	55.9	218579	0	0	3 mi.
1995	Aug	56	132N	36W	30	SWCD	7.80	218579	77.7	57.9	218579	0	0	3 mi.
1995	Sep	56	132N	36W	30	SWCD	1.90	218579	67.0	43.3	218579	0	0	3 mi.
1995	Oct	56	132N	36W	30	SWCD	4.76	218579	50.9	34.0	218579	6.3	.1	3 mi.
1995	Nov	77	132N	35W	25	SWCD	.38	218579	27.5	12.4	218579	3.6	.4	14 mi.
1995	Dec	77	132N	35W	25	SWCD	.54	218579	19.6	2.6	218579	10.1	6.4	14 mi.
1996	Jan	77	132N	35W	25	SWCD	.56	218579	9.8	-14.2	218579	19.1	12.9	14 mi.
1996	Feb	77	132N	35W	25	SWCD	.62	218579	19.6	-2.0	218579	10.2	16.3	14 mi.
1996	Mar	77	132N	35W	25	SWCD	.30	218579	25.9	5.3	218579	9.2	11.8	14 mi.
1996	Apr	21	130N	37W	21	SWCD	.51	218579	45.1	24.9	218579	.7	.8	11 mi.
1996	May	56	132N	36W	30	SWCD	2.50	218579	63.1	39.1	218579	0	0	3 mi.
1996	Jun	56	132N	36W	30	SWCD	1.87	218579	74.9	53.6	218579	0	0	3 mi.
1996	Jul	56	132N	36W	30	SWCD	2.34	218579	76.4	54.4	218579	0	0	3 mi.
1996	Aug	56	132N	36W	30	SWCD	2.09	218579	78.8	54.4	218579	0	0	3 mi.
1996	Sep	56	132N	36W	30	SWCD	4.35	218579	66.7	45.9	218579	0	0	3 mi.
1996	Oct	56	132N	36W	30	SWCD	4.91	218579	55.2	33.0	218579	0	0	3 mi.
1996	Nov	77	132N	35W	25	SWCD	2.49	218579	25.6	10.3	218579	14.3	2.9	14 mi.
1996	Dec	77	132N	35W	25	SWCD	.74	218579	13.9	-.4	218579	10.7	11.4	14 mi.
1997	Jan	77	132N	35W	25	SWCD	1.25	218579	11.5	-9.5	218579	36.0	33.2	14 mi.
1997	Feb	77	132N	35W	25	SWCD	.03	218579	24.1	.1	218579	2.5	25.9	14 mi.
1997	Mar	77	132N	35W	25	SWCD	.49	218579	30.6	10.4	218579	21.0	30.3	14 mi.
1997	Apr	77	132N	35W	25	SWCD	.47	218579	48.8	25.3	218579	0	1.6	14 mi.
1997	May	56	132N	36W	30	SWCD	1.07	218579	60.9	37.3	218579	0	0	3 mi.
1997	Jun	56	132N	36W	30	SWCD	2.75	218579	78.0	54.8	218579	0	0	3 mi.
1997	Jul	56	132N	36W	30	SWCD	3.06	218579	75.3	57.0	218579	0	0	3 mi.
1997	Aug	56	132N	36W	30	SWCD	2.99	218579	73.5	53.0	218579	0	0	3 mi.
1997	Sep	56	132N	36W	30	SWCD	1.15	218579	70.9	47.3	218579	0	0	3 mi.
1997	Oct	56	131N	38W	35	SWCD	2.36	218579	56.3	34.2	218579	0	0	8 mi.
1997	Nov	77	132N	35W	25	SWCD	.71	218579	30.6	15.9	218579	13.0	1.8	14 mi.
1997	Dec	77	132N	35W	25	SWCD	.22	218579	29.5	17.0	218579	3.3	1.7	14 mi.
1998	Jan	77	132N	35W	25	SWCD	.54	218579	18.6	2.5	218579	9.4	7.7	14 mi.
1998	Feb	77	132N	35W	25	SWCD	.94	218579	34.1	20.7	218579	2.2	6.2	14 mi.
1998	Mar	77	132N	35W	25	SWCD	1.19	218579	34.0	18.2	218579	5.1	2.1	14 mi.
1998	Apr	56	131N	38W	35	SWCD	1.50	218579	59.6	32.5	218579	6.0	.3	8 mi.
1998	May	56	131N	38W	35	SWCD	4.99	218579	72.8	47.2	218579	0	0	8 mi.
1998	Jun	56	132N	36W	30	SWCD	6.90	218579	68.6	52.0	218579	0	0	3 mi.
1998	Jul	56	132N	36W	30	SWCD	5.14	218579	78.2	57.6	218579	0	0	3 mi.
1998	Aug	56	132N	36W	30	SWCD	.72	218579	79.7	56.0	218579	0	0	3 mi.
1998	Sep	56	132N	36W	30	SWCD	.70	218579	75.4	48.4	218579	0	0	3 mi.
1998	Oct	56	131N	38W	35	SWCD	7.59	218579	56.6	37.9	218579	0	0	8 mi.
1998	Nov	56	131N	38W	35	SWCD	.80	218579	37.8	24.1	218579	10.7	2.5	8 mi.
1998	Dec	77	132N	35W	25	SWCD	.22	218579	28.8	10.0	218579	3.0	.7	14 mi.
1999	Jan	77	132N	35W	25	SWCD	.89	218579	14.0	-2.7	218579	21.5	8.1	14 mi.
1999	Feb	77	132N	35W	25	SWCD	.11	218579	30.1	9.0	218579	2.7	4.3	14 mi.
1999	Mar	77	132N	35W	25	SWCD	.85	218579	38.1	19.3	218579	8.4	1.3	14 mi.
1999	Apr	56	132N	36W	30	SWCD	2.05	218579	54.6	33.5	218579	4.0	.1	3 mi.
1999	May	56	132N	36W	30	SWCD	6.36	218579	67.4	44.9	218579	0	0	3 mi.
1999	Jun	56	132N	36W	30	SWCD	5.67	218579	73.2	54.1	218579	0	0	3 mi.
1999	Jul	56	132N	36W	30	SWCD	5.61	218579	80.6	60.4	218579	0	0	3 mi.
1999	Aug	56	132N	36W	30	SWCD	5.56	218579	75.6	55.5	218579	0	0	3 mi.
1999	Sep	56	132N	36W	30	SWCD	2.64	218579	65.3	45.4	218579	0	0	3 mi.
1999	Oct	56	132N	36W	30	SWCD	.36	218579	54.4	30.9	218579	0	0	3 mi.
1999	Nov	56	131N	38W	35	SWCD	0	218579	48.7	25.0	218579	0	0	8 mi.
1999	Dec	77	132N	35W	25	SWCD	.38	218579	30.6	10.7	218579	5.5	.7	14 mi.
2000	Jan	77	132N	35W	25	SWCD	.31	218579	19.2	-.8	218579	10.8	4.1	14 mi.
2000	Feb	77	132N	35W	25	SWCD	1.16	218579	29.6	10.0	218579	13.7	5.3	14 mi.
2000	Mar	77	132N	35W	25	SWCD	1.25	218579	45.6	24.4	218579	8.0	.5	14 mi.
2000	Apr	56	132N	36W	30	SWCD	1.54	218579	53.1	29.5	218579	9.0	.3	3 mi.
2000	May	56	132N	36W	30	SWCD	2.73	218579	67.2	45.4	218579	0	0	3 mi.
2000	Jun	56	132N	36W	30	SWCD	4.80	218579	70.3	50.2	218579	0	0	3 mi.

2000	Jul	56	133N	39W	36	SWCD			3.82	218579	77.8	58.1	218579	0	0	11	mi.
2000	Aug	56	133N	39W	36	SWCD			1.05	218579	79.2	55.6	218579	0	0	11	mi.
2000	Sep	56	133N	39W	36	SWCD			2.18	218579	68.2	42.5	218579	0	0	11	mi.
2000	Oct	56	132N	36W	30	SWCD			1.55	218579	58.8	35.7	218579	0	0	3	mi.
2000	Nov	77	132N	35W	25	SWCD			3.17	218579	35.7	22.8	218579	10.1	.7	14	mi.
2000	Dec	77	132N	35W	25	SWCD			.36	218579	12.0	-5.8	218579	11.3	5.3	14	mi.
2001	Jan	77	132N	35W	25	SWCD			.58	218579	25.7	7.5	218579	10.7	9.6	14	mi.
2001	Feb	77	132N	35W	25	SWCD			1.04	218579	15.3	-6.8	218579	24.3	17.3	14	mi.
2001	Mar	77	132N	35W	25	SWCD			.26	218579	32.9	10.7	218579	3.3	13.7	14	mi.
2001	Apr	56	132N	36W	30	SWCD			4.76	218579	51.5	33.8	218579	1.0	1.1	3	mi.
2001	May	56	132N	36W	30	SWCD			3.00	218579	68.3	45.9	218579	0	0	3	mi.
2001	Jun	56	131N	38W	35	SWCD			8.50	218579	74.8	56.2	218579	0	0	8	mi.
2001	Jul	56	132N	36W	30	SWCD			4.08	218579	80.3	59.4	218579	0	0	3	mi.
2001	Aug	56	131N	38W	35	SWCD			1.37	218579	81.4	56.5	218579	0	0	8	mi.
2001	Sep	56	132N	36W	30	SWCD			2.80	218579	66.5	46.5	218579	0	0	3	mi.
2001	Oct	56	131N	38W	35	SWCD			1.67	218579	54.5	33.4	218579	.5	0	8	mi.
2001	Nov	77	132N	35W	25	SWCD			1.44	218579	50.6	31.4	218579	12.3	1.0	14	mi.
2001	Dec	77	132N	35W	25	SWCD			.32	218579	29.7	15.9	218579	2.8	1.7	14	mi.
2002	Jan	77	132N	35W	25	SWCD			.08	210112	m	m	m	m	14	mi.	
2002	Feb						218579		.35	210112	m	m	m	m	15	mi.	
2002	Mar						218005		m	210112	m	m	m	m	27	mi.	
2002	Apr					m	m	m	m	m	999	mi.					
2002	May					m	m	m	m	m	999	mi.					
2002	Jun					m	m	m	m	m	999	mi.					
2002	Jul					m	m	m	m	m	999	mi.					
2002	Aug					m	m	m	m	m	999	mi.					
2002	Sep					m	m	m	m	m	999	mi.					
2002	Oct					m	m	m	m	m	999	mi.					
2002	Nov					m	m	m	m	m	999	mi.					
2002	Dec					m	m	m	m	m	999	mi.					

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

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Target location is STEARNS MELROSE (south) 126N 33W S5
Lat: 45.75031 Lon: 94.86681

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years: 1992 to 2002

number of **missing days** allowed per month: 3

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Target: T126 R33 S5

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan						215325	.59	215325	28.7	7.6	215325	7.2	6.8	5 mi.
1992	Feb						215325	.18	215325	33.4	16.9	215325	2.3	5.0	5 mi.
1992	Mar						215325	1.57	215325	43.2	21.7	215325	7.0	.4	5 mi.
1992	Apr	73	126N	34W	9	WSD		2.97	215325	53.0	30.6	215325	5.0	0	4 mi.
1992	May	73	126N	34W	9	WSD		2.28	215325	76.3	45.7	215325	0	0	4 mi.
1992	Jun	73	126N	34W	9	WSD		6.23	215325	78.1	51.9	215325	0	0	4 mi.
1992	Jul	73	126N	34W	9	WSD		3.05	215325	76.4	52.0	215325	0	0	4 mi.
1992	Aug	73	126N	34W	9	WSD		2.42	215325	76.8	51.7	215325	0	0	4 mi.
1992	Sep	73	126N	34W	9	WSD		.91	215325	71.8	45.3	215325	0	0	4 mi.
1992	Oct	73	126N	34W	9	WSD		.79	215325	58.7	32.2	215325	4.0	0	4 mi.
1992	Nov	73	126N	34W	9	WSD		.48	215325	33.3	23.4	215325	10.5	3.9	4 mi.
1992	Dec						215325	.94	215325	27.3	9.9	215325	11.1	4.2	5 mi.
1993	Jan						215325	.92	215325	24.3	2.9	215325	14.2	14.6	5 mi.
1993	Feb						215325	.22	215325	26.6	6.2	215325	4.3	13.3	5 mi.
1993	Mar						215325	1.39	215325	41.2	18.7	215325	4.5	12.8	5 mi.
1993	Apr	73	126N	34W	9	WSD		1.25	215325	56.4	31.7	215325	2.0	0	4 mi.
1993	May	73	126N	34W	9	WSD		5.42	215325	69.5	45.6	215325	0	0	4 mi.
1993	Jun	73	126N	34W	9	WSD		4.36	215325	74.9	53.1	215325	0	0	4 mi.
1993	Jul	73	126N	34W	9	WSD		4.34	215325	79.5	59.8	215325	0	0	4 mi.
1993	Aug	73	126N	34W	9	WSD		4.80	215325	80.2	59.0	215325	0	0	4 mi.
1993	Sep	73	126N	34W	9	WSD		2.23	215325	66.6	42.7	215325	0	0	4 mi.
1993	Oct	73	126N	34W	9	WSD		.86	215325	58.3	33.2	215325	0	0	4 mi.
1993	Nov						215325	2.25	215325	36.2	19.5	215325	16.5	5.4	5 mi.
1993	Dec						215325	.55	215325	26.9	9.4	215325	6.0	10.8	5 mi.
1994	Jan						215325	1.15	215325	9.3	-10.5	215325	22.6	15.8	5 mi.
1994	Feb						215325	.56	215325	19.4	-1.4	215325	8.1	16.8	5 mi.
1994	Mar						215325	1.08	215325	41.1	22.3	214861	6.2	5.4	5 mi.
1994	Apr	73	126N	34W	9	WSD		3.24	215325	58.3	32.1	215325	0	.3	4 mi.

1994 May	73	126N	34W	9	WSD		2.67	215325	73.5	47.5	215325	0	0	4 mi.
1994 Jun	73	126N	34W	9	WSD		2.86	215325	80.3	56.7	215325	0	0	4 mi.
1994 Jul	73	126N	34W	9	WSD		3.83	215325	80.5	58.8	215325	0	0	4 mi.
1994 Aug	73	126N	34W	9	WSD		3.46	215325	78.2	56.8	215325	0	0	4 mi.
1994 Sep	73	126N	34W	9	WSD		3.17	215325	73.1	52.2	215325	0	0	4 mi.
1994 Oct	73	126N	34W	9	WSD		4.18	215325	59.4	40.8	215325	0	0	4 mi.
1994 Nov	73	126N	34W	9	WSD		.54	215325	44.2	26.6	215325	8.5	0	4 mi.
1994 Dec						215325	.23	215325	30.6	12.6	215325	3.2	5.7	5 mi.
1995 Jan						215325	.67	215325	23.4	5.1	215325	m	8.6	5 mi.
1995 Feb						215325	.43	215325	26.7	4.8	214861	8.8	10.7	5 mi.
1995 Mar						215325	2.20	215325	41.7	22.0	215325	14.0	8.0	5 mi.
1995 Apr	73	126N	34W	9	WSD		2.11	215325	50.9	29.6	215325	3.0	0	4 mi.
1995 May	73	126N	34W	9	WSD		2.96	215325	67.6	43.5	215325	0	0	4 mi.
1995 Jun	73	126N	34W	9	WSD		3.86	215325	82.8	59.4	215325	0	0	4 mi.
1995 Jul	73	126N	34W	9	WSD		5.53	215325	83.4	60.3	215325	0	0	4 mi.
1995 Aug	73	126N	34W	9	WSD		5.37	215325	82.6	62.8	215325	0	0	4 mi.
1995 Sep	73	126N	34W	9	WSD		5.42	215325	70.8	47.7	215325	0	0	4 mi.
1995 Oct						215325	6.17	215325	55.1	37.8	215325	m	.1	5 mi.
1995 Nov						215325	.47	215325	33.3	16.8	214861	6.2	.9	5 mi.
1995 Dec						215325	1.36	215325	24.5	7.6	215325	14.0	6.9	5 mi.
1996 Jan						215325	2.35	215325	14.9	-6.6	215325	24.0	12.7	5 mi.
1996 Feb						215325	.50	215325	24.1	4.6	215325	4.5	18.1	5 mi.
1996 Mar						215325	.85	215325	31.8	11.9	215325	11.0	12.2	5 mi.
1996 Apr						215325	.69	215325	51.5	27.8	215325	7.0	1.8	5 mi.
1996 May	73	126N	34W	9	WSD		3.56	215325	66.6	43.5	215325	0	0	4 mi.
1996 Jun	73	126N	34W	9	WSD		2.73	215325	80.1	57.0	215325	0	0	4 mi.
1996 Jul	73	126N	34W	9	WSD		4.57	215325	80.8	57.2	215325	0	0	4 mi.
1996 Aug	73	126N	34W	9	WSD		.71	215325	82.4	58.5	215325	0	0	4 mi.
1996 Sep	73	126N	34W	9	WSD		3.25	215325	71.7	50.3	215325	0	0	4 mi.
1996 Oct	73	126N	34W	9	WSD		5.62	215325	60.6	37.0	215325	0	0	4 mi.
1996 Nov						215325	3.20	215325	30.0	15.6	215325	9.0	3.9	5 mi.
1996 Dec						215325	1.45	215325	17.9	3.7	215325	13.3	14.6	5 mi.
1997 Jan						215325	2.65	215325	15.1	-3.5	215325	24.0	30.1	5 mi.
1997 Feb						215325	.10	215325	27.6	7.6	214861	1.0	28.9	5 mi.
1997 Mar						215325	1.65	215325	35.2	16.7	215325	15.5	23.7	5 mi.
1997 Apr						215325	.72	215325	54.5	29.9	215325	0	.9	5 mi.
1997 May	73	126N	34W	9	WSD		2.29	215325	66.2	40.3	215325	0	0	4 mi.
1997 Jun	73	126N	34W	9	WSD		1.87	215325	83.2	58.3	215325	0	0	4 mi.
1997 Jul	73	126N	34W	9	WSD		5.20	215325	80.3	61.1	215325	0	0	4 mi.
1997 Aug	73	126N	34W	9	WSD		4.64	215325	78.7	57.9	215325	0	0	4 mi.
1997 Sep	73	126N	34W	9	WSD		1.82	215325	74.5	52.1	215325	0	0	4 mi.
1997 Oct	73	126N	34W	9	WSD		1.99	215325	61.1	38.7	215325	0	0	4 mi.
1997 Nov						215325	.73	215325	33.0	19.9	214861	12.0	3.8	5 mi.
1997 Dec	73	126N	34W	34	WSD		.23	215325	32.6	19.0	215325	2.5	.5	6 mi.
1998 Jan	73	126N	34W	34	WSD		.96	215325	23.1	7.7	214861	14.7	6.5	6 mi.
1998 Feb						215325	m	215325	36.9	24.0	214861	1.5	6.1	5 mi.
1998 Mar						215325	.68	215325	38.7	22.3	214861	4.1	.2	5 mi.
1998 Apr						215325	1.70	215325	63.9	35.4	215325	7.0	.3	5 mi.
1998 May						215325	3.96	215325	77.6	49.9	215325	0	0	5 mi.
1998 Jun	73	126N	34W	9	WSD		7.52	215325	76.9	54.9	215325	0	0	4 mi.
1998 Jul	73	126N	34W	9	WSD		4.59	215325	84.5	61.1	215325	0	0	4 mi.
1998 Aug	73	126N	34W	9	WSD		1.94	215325	83.8	60.3	215325	0	0	4 mi.
1998 Sep	73	126N	34W	9	WSD		2.41	215325	78.8	51.9	215325	0	0	4 mi.
1998 Oct	73	126N	34W	9	WSD		3.07	215325	61.2	39.7	215325	0	0	4 mi.
1998 Nov						215325	1.65	215325	41.7	26.4	215325	3.0	1.2	5 mi.
1998 Dec						215325	.65	215325	32.9	12.2	215325	m	1.1	5 mi.
1999 Jan						215325	1.33	215325	18.9	1.0	215325	20.5	11.5	5 mi.
1999 Feb						215325	0	215325	35.0	15.8	214861	1.3	8.2	5 mi.
1999 Mar						215325	1.30	215325	43.0	22.0	215325	10.5	3.2	5 mi.
1999 Apr	73	126N	33W	34	DNR		2.32	215325	57.4	34.9	215325	3.0	.2	5 mi.
1999 May						215325	5.26	215325	70.8	46.6	215325	0	0	5 mi.
1999 Jun						215325	4.23	215325	78.6	55.8	215325	0	0	5 mi.
1999 Jul						215325	5.05	215325	87.4	62.0	215325	0	0	5 mi.
1999 Aug						215325	2.89	215325	80.7	58.0	215325	0	0	5 mi.
1999 Sep						215325	2.20	215325	71.2	48.1	215325	0	0	5 mi.
1999 Oct						215325	1.05	215325	61.2	34.0	215325	0	0	5 mi.
1999 Nov						215325	.15	215325	51.4	26.4	215325	0	0	5 mi.
1999 Dec						215325	.09	215325	34.4	12.1	215325	1.8	1.2	5 mi.
2000 Jan						215325	.59	215325	24.7	1.6	215325	13.0	4.4	5 mi.
2000 Feb	73	126N	33W	34	DNR		1.51	215325	34.4	13.9	215325	9.0	5.6	5 mi.
2000 Mar						215325	1.27	215325	50.9	27.2	215325	0	0	5 mi.
2000 Apr	73	126N	33W	34	DNR		.92	215325	57.7	31.2	215325	4.0	.2	5 mi.
2000 May	73	126N	33W	34	DNR		2.94	215325	72.4	46.5	215325	0	0	5 mi.
2000 Jun	73	126N	33W	34	DNR		3.66	215325	76.0	51.5	215325	0	0	5 mi.

2000	Jul					215325	7.37	215325	82.5	59.2	215325	0	0	5 mi.
2000	Aug					215325	1.60	215325	82.5	58.1	215325	0	0	5 mi.
2000	Sep	73	126N	33W	34	DNR	.80	215325	74.2	45.5	215325	0	0	5 mi.
2000	Oct					215325	1.54	215325	62.2	39.8	215325	0	0	5 mi.
2000	Nov	73	126N	33W	34	DNR	4.30	215325	36.4	22.2	215325	3.5	2.2	5 mi.
2000	Dec	73	126N	33W	34	DNR	.41	215325	14.7	-5.7	215325	8.3	6.8	5 mi.
2001	Jan	73	126N	33W	34	DNR	.59	215325	27.8	7.8	214861	8.9	11.7	5 mi.
2001	Feb	73	126N	33W	34	DNR	.94	215325	20.1	-5.2	214861	29.1	20.3	5 mi.
2001	Mar	73	126N	33W	34	DNR	.70	215325	36.3	14.6	215325	6.0	19.1	5 mi.
2001	Apr	73	126N	33W	34	DNR	7.21	215325	56.4	33.6	215325	0	0	5 mi.
2001	May	73	126N	33W	34	DNR	3.23	215325	70.6	47.5	215325	0	0	5 mi.
2001	Jun					215325	2.87	215325	79.2	56.5	215325	0	0	5 mi.
2001	Jul					215325	2.17	215325	85.6	60.1	215325	0	0	5 mi.
2001	Aug	73	126N	33W	34	DNR	1.87	215325	84.8	57.6	215325	0	0	5 mi.
2001	Sep	73	126N	33W	34	DNR	1.83	215325	68.8	46.0	215325	0	0	5 mi.
2001	Oct	73	126N	33W	34	DNR	1.10	215325	52.1	32.9	215325	0	0	5 mi.
2001	Nov					215325	1.35	215325	50.7	29.8	215325	16.0	1.5	5 mi.
2001	Dec					215325	.28	215325	29.8	13.3	215325	3.0	2.7	5 mi.
2002	Jan	73	126N	33W	34	DNR	.12	210112	m	m	m	m	5	mi.
2002	Feb					215325	.63	210112	m	m	m	m	5	mi.
2002	Mar					217294	m	210112	m	m	m	m	41	mi.
2002	Apr				m	m	m	m	m	999	mi.			
2002	May				m	m	m	m	m	999	mi.			
2002	Jun				m	m	m	m	m	999	mi.			
2002	Jul				m	m	m	m	m	999	mi.			
2002	Aug				m	m	m	m	m	999	mi.			
2002	Sep				m	m	m	m	m	999	mi.			
2002	Oct				m	m	m	m	m	999	mi.			
2002	Nov				m	m	m	m	m	999	mi.			
2002	Dec				m	m	m	m	m	999	mi.			

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

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'Closest Station' Climate Data Retrieval

The data matching your request is at the bottom of this page or should appear there within one minute.

Target location is STEARNS MELROSE (south) 126N 33W S5
Lat: 45.75031 Lon: 94.86681

set location

retrieve **only** this station: 217530 SAUK CENTER

years: 1992 to 2002

number of **missing days** allowed per month: 3

retrieve data from the following data sources:

- **Precipitation** from *High Density Network* (last update - December 2001)
- **Precipitation** from *National Weather Service* (last update - October 2001)
- **Temperature** from *National Weather Service* (last update - October 2001)
- **Snow** from *National Weather Service* (last update - October 2001)

get monthly | get daily

Target: T126 R33 S5

year	m	cc	tttN	rrW	ss	nnnn	oooooooo	pre	aaaaaa	Tmx	Tmn	aaaaaa	sno	SnD	dis
1992	Jan						215325	.59	215325	28.7	7.6	215325	7.2	6.8	5 mi.
1992	Feb						215325	.18	215325	33.4	16.9	215325	2.3	5.0	5 mi.
1992	Mar						215325	1.57	215325	43.2	21.7	215325	7.0	.4	5 mi.
1992	Apr	73	126N	34W	9	WSD		2.97	215325	53.0	30.6	215325	5.0	0	4 mi.
1992	May	73	126N	34W	9	WSD		2.28	215325	76.3	45.7	215325	0	0	4 mi.
1992	Jun	73	126N	34W	9	WSD		6.23	215325	78.1	51.9	215325	0	0	4 mi.
1992	Jul	73	126N	34W	9	WSD		3.05	215325	76.4	52.0	215325	0	0	4 mi.
1992	Aug	73	126N	34W	9	WSD		2.42	215325	76.8	51.7	215325	0	0	4 mi.
1992	Sep	73	126N	34W	9	WSD		.91	215325	71.8	45.3	215325	0	0	4 mi.
1992	Oct	73	126N	34W	9	WSD		.79	215325	58.7	32.2	215325	4.0	0	4 mi.
1992	Nov	73	126N	34W	9	WSD		.48	215325	33.3	23.4	215325	10.5	3.9	4 mi.
1992	Dec						215325	.94	215325	27.3	9.9	215325	11.1	4.2	5 mi.
1993	Jan						215325	.92	215325	24.3	2.9	215325	14.2	14.6	5 mi.
1993	Feb						215325	.22	215325	26.6	6.2	215325	4.3	13.3	5 mi.
1993	Mar						215325	1.39	215325	41.2	18.7	215325	4.5	12.8	5 mi.
1993	Apr	73	126N	34W	9	WSD		1.25	215325	56.4	31.7	215325	2.0	0	4 mi.
1993	May	73	126N	34W	9	WSD		5.42	215325	69.5	45.6	215325	0	0	4 mi.
1993	Jun	73	126N	34W	9	WSD		4.36	215325	74.9	53.1	215325	0	0	4 mi.
1993	Jul	73	126N	34W	9	WSD		4.34	215325	79.5	59.8	215325	0	0	4 mi.
1993	Aug	73	126N	34W	9	WSD		4.80	215325	80.2	59.0	215325	0	0	4 mi.
1993	Sep	73	126N	34W	9	WSD		2.23	215325	66.6	42.7	215325	0	0	4 mi.
1993	Oct	73	126N	34W	9	WSD		.86	215325	58.3	33.2	215325	0	0	4 mi.
1993	Nov						215325	2.25	215325	36.2	19.5	215325	16.5	5.4	5 mi.
1993	Dec						215325	.55	215325	26.9	9.4	215325	6.0	10.8	5 mi.
1994	Jan						215325	1.15	215325	9.3	-10.5	215325	22.6	15.8	5 mi.
1994	Feb						215325	.56	215325	19.4	-1.4	215325	8.1	16.8	5 mi.
1994	Mar						215325	1.08	215325	41.1	22.3	214861	6.2	5.4	5 mi.
1994	Apr	73	126N	34W	9	WSD		3.24	215325	58.3	32.1	215325	0	.3	4 mi.

1994	May	73	126N	34W	9	WSD		2.67	215325	73.5	47.5	215325	0	0	4 mi.
1994	Jun	73	126N	34W	9	WSD		2.86	215325	80.3	56.7	215325	0	0	4 mi.
1994	Jul	73	126N	34W	9	WSD		3.83	215325	80.5	58.8	215325	0	0	4 mi.
1994	Aug	73	126N	34W	9	WSD		3.46	215325	78.2	56.8	215325	0	0	4 mi.
1994	Sep	73	126N	34W	9	WSD		3.17	215325	73.1	52.2	215325	0	0	4 mi.
1994	Oct	73	126N	34W	9	WSD		4.18	215325	59.4	40.8	215325	0	0	4 mi.
1994	Nov	73	126N	34W	9	WSD		.54	215325	44.2	26.6	215325	8.5	0	4 mi.
1994	Dec						215325	.23	215325	30.6	12.6	215325	3.2	5.7	5 mi.
1995	Jan						215325	.67	215325	23.4	5.1	215325	m	8.6	5 mi.
1995	Feb						215325	.43	215325	26.7	4.8	214861	8.8	10.7	5 mi.
1995	Mar						215325	2.20	215325	41.7	22.0	215325	14.0	8.0	5 mi.
1995	Apr	73	126N	34W	9	WSD		2.11	215325	50.9	29.6	215325	3.0	0	4 mi.
1995	May	73	126N	34W	9	WSD		2.96	215325	67.6	43.5	215325	0	0	4 mi.
1995	Jun	73	126N	34W	9	WSD		3.86	215325	82.8	59.4	215325	0	0	4 mi.
1995	Jul	73	126N	34W	9	WSD		5.53	215325	83.4	60.3	215325	0	0	4 mi.
1995	Aug	73	126N	34W	9	WSD		5.37	215325	82.6	62.8	215325	0	0	4 mi.
1995	Sep	73	126N	34W	9	WSD		5.42	215325	70.8	47.7	215325	0	0	4 mi.
1995	Oct						215325	6.17	215325	55.1	37.8	215325	m	.1	5 mi.
1995	Nov						215325	.47	215325	33.3	16.8	214861	6.2	.9	5 mi.
1995	Dec						215325	1.36	215325	24.5	7.6	215325	14.0	6.9	5 mi.
1996	Jan						215325	2.35	215325	14.9	-6.6	215325	24.0	12.7	5 mi.
1996	Feb						215325	.50	215325	24.1	4.6	215325	4.5	18.1	5 mi.
1996	Mar						215325	.85	215325	31.8	11.9	215325	11.0	12.2	5 mi.
1996	Apr						215325	.69	215325	51.5	27.8	215325	7.0	1.8	5 mi.
1996	May	73	126N	34W	9	WSD		3.56	215325	66.6	43.5	215325	0	0	4 mi.
1996	Jun	73	126N	34W	9	WSD		2.73	215325	80.1	57.0	215325	0	0	4 mi.
1996	Jul	73	126N	34W	9	WSD		4.57	215325	80.8	57.2	215325	0	0	4 mi.
1996	Aug	73	126N	34W	9	WSD		.71	215325	82.4	58.5	215325	0	0	4 mi.
1996	Sep	73	126N	34W	9	WSD		3.25	215325	71.7	50.3	215325	0	0	4 mi.
1996	Oct	73	126N	34W	9	WSD		5.62	215325	60.6	37.0	215325	0	0	4 mi.
1996	Nov						215325	3.20	215325	30.0	15.6	215325	9.0	3.9	5 mi.
1996	Dec						215325	1.45	215325	17.9	3.7	215325	13.3	14.6	5 mi.
1997	Jan						215325	2.65	215325	15.1	-3.5	215325	24.0	30.1	5 mi.
1997	Feb						215325	.10	215325	27.6	7.6	214861	1.0	28.9	5 mi.
1997	Mar						215325	1.65	215325	35.2	16.7	215325	15.5	23.7	5 mi.
1997	Apr						215325	.72	215325	54.5	29.9	215325	0	.9	5 mi.
1997	May	73	126N	34W	9	WSD		2.29	215325	66.2	40.3	215325	0	0	4 mi.
1997	Jun	73	126N	34W	9	WSD		1.87	215325	83.2	58.3	215325	0	0	4 mi.
1997	Jul	73	126N	34W	9	WSD		5.20	215325	80.3	61.1	215325	0	0	4 mi.
1997	Aug	73	126N	34W	9	WSD		4.64	215325	78.7	57.9	215325	0	0	4 mi.
1997	Sep	73	126N	34W	9	WSD		1.82	215325	74.5	52.1	215325	0	0	4 mi.
1997	Oct	73	126N	34W	9	WSD		1.99	215325	61.1	38.7	215325	0	0	4 mi.
1997	Nov						215325	.73	215325	33.0	19.9	214861	12.0	3.8	5 mi.
1997	Dec	73	126N	34W	34	WSD		.23	215325	32.6	19.0	215325	2.5	.5	6 mi.
1998	Jan	73	126N	34W	34	WSD		.96	215325	23.1	7.7	214861	14.7	6.5	6 mi.
1998	Feb						215325	m	215325	36.9	24.0	214861	1.5	6.1	5 mi.
1998	Mar						215325	.68	215325	38.7	22.3	214861	4.1	.2	5 mi.
1998	Apr						215325	1.70	215325	63.9	35.4	215325	7.0	.3	5 mi.
1998	May						215325	3.96	215325	77.6	49.9	215325	0	0	5 mi.
1998	Jun	73	126N	34W	9	WSD		7.52	215325	76.9	54.9	215325	0	0	4 mi.
1998	Jul	73	126N	34W	9	WSD		4.59	215325	84.5	61.1	215325	0	0	4 mi.
1998	Aug	73	126N	34W	9	WSD		1.94	215325	83.8	60.3	215325	0	0	4 mi.
1998	Sep	73	126N	34W	9	WSD		2.41	215325	78.8	51.9	215325	0	0	4 mi.
1998	Oct	73	126N	34W	9	WSD		3.07	215325	61.2	39.7	215325	0	0	4 mi.
1998	Nov						215325	1.65	215325	41.7	26.4	215325	3.0	1.2	5 mi.
1998	Dec						215325	.65	215325	32.9	12.2	215325	m	1.1	5 mi.
1999	Jan						215325	1.33	215325	18.9	1.0	215325	20.5	11.5	5 mi.
1999	Feb						215325	0	215325	35.0	15.8	214861	1.3	8.2	5 mi.
1999	Mar						215325	1.30	215325	43.0	22.0	215325	10.5	3.2	5 mi.
1999	Apr	73	126N	33W	34	DNR		2.32	215325	57.4	34.9	215325	3.0	.2	5 mi.
1999	May						215325	5.26	215325	70.8	46.6	215325	0	0	5 mi.
1999	Jun						215325	4.23	215325	78.6	55.8	215325	0	0	5 mi.
1999	Jul						215325	5.05	215325	87.4	62.0	215325	0	0	5 mi.
1999	Aug						215325	2.89	215325	80.7	58.0	215325	0	0	5 mi.
1999	Sep						215325	2.20	215325	71.2	48.1	215325	0	0	5 mi.
1999	Oct						215325	1.05	215325	61.2	34.0	215325	0	0	5 mi.
1999	Nov						215325	.15	215325	51.4	26.4	215325	0	0	5 mi.
1999	Dec						215325	.09	215325	34.4	12.1	215325	1.8	1.2	5 mi.
2000	Jan						215325	.59	215325	24.7	1.6	215325	13.0	4.4	5 mi.
2000	Feb	73	126N	33W	34	DNR		1.51	215325	34.4	13.9	215325	9.0	5.6	5 mi.
2000	Mar						215325	1.27	215325	50.9	27.2	215325	0	0	5 mi.
2000	Apr	73	126N	33W	34	DNR		.92	215325	57.7	31.2	215325	4.0	.2	5 mi.
2000	May	73	126N	33W	34	DNR		2.94	215325	72.4	46.5	215325	0	0	5 mi.
2000	Jun	73	126N	33W	34	DNR		3.66	215325	76.0	51.5	215325	0	0	5 mi.

2000	Jul						215325	7.37	215325	82.5	59.2	215325	0	0	5	mi.
2000	Aug						215325	1.60	215325	82.5	58.1	215325	0	0	5	mi.
2000	Sep	73	126N	33W	34	DNR		.80	215325	74.2	45.5	215325	0	0	5	mi.
2000	Oct						215325	1.54	215325	62.2	39.8	215325	0	0	5	mi.
2000	Nov	73	126N	33W	34	DNR		4.30	215325	36.4	22.2	215325	3.5	2.2	5	mi.
2000	Dec	73	126N	33W	34	DNR		.41	215325	14.7	-5.7	215325	8.3	6.8	5	mi.
2001	Jan	73	126N	33W	34	DNR		.59	215325	27.8	7.8	214861	8.9	11.7	5	mi.
2001	Feb	73	126N	33W	34	DNR		.94	215325	20.1	-5.2	214861	29.1	20.3	5	mi.
2001	Mar	73	126N	33W	34	DNR		.70	215325	36.3	14.6	215325	6.0	19.1	5	mi.
2001	Apr	73	126N	33W	34	DNR		7.21	215325	56.4	33.6	215325	0	0	5	mi.
2001	May	73	126N	33W	34	DNR		3.23	215325	70.6	47.5	215325	0	0	5	mi.
2001	Jun						215325	2.87	215325	79.2	56.5	215325	0	0	5	mi.
2001	Jul						215325	2.17	215325	85.6	60.1	215325	0	0	5	mi.
2001	Aug	73	126N	33W	34	DNR		1.87	215325	84.8	57.6	215325	0	0	5	mi.
2001	Sep	73	126N	33W	34	DNR		1.83	215325	68.8	46.0	215325	0	0	5	mi.
2001	Oct	73	126N	33W	34	DNR		1.10	215325	52.1	32.9	215325	0	0	5	mi.
2001	Nov						215325	1.35	215325	50.7	29.8	215325	16.0	1.5	5	mi.
2001	Dec						215325	.28	215325	29.8	13.3	215325	3.0	2.7	5	mi.
2002	Jan	73	126N	33W	34	DNR		.12	210112	m	m	m	m	5	mi.	
2002	Feb						215325	.63	210112	m	m	m	m	5	mi.	
2002	Mar						217294	m	210112	m	m	m	m	41	mi.	
2002	Apr					m	m	m	m	m	999	mi.				
2002	May					m	m	m	m	m	999	mi.				
2002	Jun					m	m	m	m	m	999	mi.				
2002	Jul					m	m	m	m	m	999	mi.				
2002	Aug					m	m	m	m	m	999	mi.				
2002	Sep					m	m	m	m	m	999	mi.				
2002	Oct					m	m	m	m	m	999	mi.				
2002	Nov					m	m	m	m	m	999	mi.				
2002	Dec					m	m	m	m	m	999	mi.				

Where indicated: Missing values are shown as 'm'. Days on which precip accumulated in the gage are shown as '-'. 'TTTT RR SS' is the 'public land survey(PLS)' or 'legal' location of the observed data. Section values greater 36 are SECTIC 'TIC' locations plus 100. 'NWS ID' the National Weather Service Cooperative station number. Note that the 'PLS' will always be correct for precipitation data while the 'NWS ID' will always be correct for the temperature data. If no PLS info is supplied the the 'NWS ID' number applies to all shown data. (Please see the 'online index'.)

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