

## How to Fill Out Your Observing Form

<p>Please <b>print</b> your name.</p>	<p>Please write the last two digits of the year and the two digits of the month (example: 2000 = 01) and (example: April=04) Also the time that you observe each day (example: 07 am).</p>	<p>Please enter your county number (see the list below for numbers). Also enter your <b>township, range</b> and <b>section</b> number. These numbers can be found on county plat books.</p>	<p>This is the network number. "7" is the SWCD network.</p>																																		
<p>Please <b>print</b> your street address.</p>	<p>WR-00906-02 Rev. 3/01</p> <p style="text-align: center;"><b>MINNESOTA CLIMATOLOGICAL NETWORK</b></p> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">4</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">7</td> <td style="border: 1px solid black; padding: 2px;">am</td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">4</td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">6</td> <td style="border: 1px solid black; padding: 2px;">7</td> </tr> <tr> <td style="font-size: 8px;">Year</td> <td style="font-size: 8px;">Month</td> <td style="font-size: 8px;">Ob Time</td> <td style="font-size: 8px;">County</td> <td style="font-size: 8px;">Township</td> <td style="font-size: 8px;">Range</td> <td style="font-size: 8px;">Section</td> <td colspan="10"></td> </tr> </table>		0	1	0	4	0	7	am	2	4	1	0	2	2	2	1	6	7	Year	Month	Ob Time	County	Township	Range	Section											<p>Please <b>print</b> the name of your Township</p>
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<p>Be sure to include your zip code.</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 50%;">Name <b>Jim Johnson</b></td> <td style="width: 25%;">County Name <b>Freeborn</b></td> <td style="width: 25%;">Township Name <b>Pickerele Lake</b></td> </tr> <tr> <td colspan="2">Address <b>1100 35<sup>th</sup> Street Albert Lea, Minnesota 56007</b></td> <td>Telephone No. <b>(507) 373-0001</b></td> </tr> <tr> <td style="text-align: center;"><b>24-HOUR AMOUNTS</b></td> <td style="text-align: center;"><b>REMARKS:</b></td> <td style="text-align: center;"><b>Gauge type (Check One):</b></td> </tr> <tr> <td style="font-size: 6px;">Rain, Melted Snow, Etc. (Ins. &amp; Hdths)</td> <td style="font-size: 6px;">Give times and comments about events. (Temperature and Phenology items are very useful).</td> <td style="font-size: 6px;">cylinder <input checked="" type="checkbox"/> Tipping bucket</td> </tr> <tr> <td style="font-size: 6px;">Snow (Ins. &amp; Tenths)</td> <td style="font-size: 6px;"></td> <td style="font-size: 6px;">test tube <input type="checkbox"/> weighing <input type="checkbox"/></td> </tr> <tr> <td style="font-size: 6px;">Snow On Ground (Inches)</td> <td style="font-size: 6px;"></td> <td style="font-size: 6px;">wedge <input type="checkbox"/> Other <input type="checkbox"/></td> </tr> <tr> <td colspan="2"></td> <td style="font-size: 6px;">catch opening diameter/size (inches) <u>4</u></td> </tr> <tr> <td colspan="2"></td> <td style="font-size: 6px;">maximum catch depth (inches) <u>11</u></td> </tr> <tr> <td colspan="2"></td> <td style="font-size: 6px;">board/ruler/post used for snow <input checked="" type="checkbox"/>_yes <input type="checkbox"/>_no</td> </tr> </table>		Name <b>Jim Johnson</b>	County Name <b>Freeborn</b>	Township Name <b>Pickerele Lake</b>	Address <b>1100 35<sup>th</sup> Street Albert Lea, Minnesota 56007</b>		Telephone No. <b>(507) 373-0001</b>	<b>24-HOUR AMOUNTS</b>	<b>REMARKS:</b>	<b>Gauge type (Check One):</b>	Rain, Melted Snow, Etc. (Ins. & Hdths)	Give times and comments about events. (Temperature and Phenology items are very useful).	cylinder <input checked="" type="checkbox"/> Tipping bucket	Snow (Ins. & Tenths)		test tube <input type="checkbox"/> weighing <input type="checkbox"/>	Snow On Ground (Inches)		wedge <input type="checkbox"/> Other <input type="checkbox"/>			catch opening diameter/size (inches) <u>4</u>			maximum catch depth (inches) <u>11</u>			board/ruler/post used for snow <input checked="" type="checkbox"/> _yes <input type="checkbox"/> _no	<p>Please enter your phone number.</p>							
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	<p>For information on how to fill out rain and snow, please see "How to Record Rain and Snow" below.</p>	<p>Please enter your gauge type, other information about your rain gauge, and if you have a snowboard.</p>																																			
<p><b>How to Record and Report Rain and Snow</b></p> <p><b>SUMMER:</b> Left Column - Rain Gauge: Rainfall measurements should be entered to the nearest hundredth of an inch. (Example: .07 or 1.32.) in the left column only. Record the rainfall for the day on which the observation was made. Any rainfall after the observation time (which should be the same time every day) will be measured on the next day. Enter T or trace for amounts less than .01 (one hundredth) of an inch. If no rain has fallen enter zero (0).</p> <p><b>WINTER:</b> <b>Left Column</b> - Melted Snow - Outer Tube: During the winter, use only the outer tube of the gauge to collect snow. At observation time melt the collected snow and measure the water obtained to the nearest hundredth of an inch (Example: .14) using the graduated center tube. Enter the measurement in the left column.</p> <p><b>Middle Column</b> - Snowfall - Yardstick: Measure new snowfall (fallen during the last 24 hours) to the nearest tenth of an inch (Example 2.4 or .5) using a yardstick. Select a previously bare area, such as a driveway and take the average of several measurements. A snowboard may be useful. Record this amount in the center column only.</p> <p><b>Right Column</b> - Depth of Snow on Ground - Yardstick: Measure the depth of snow on the ground to the nearest inch using a yardstick. Repeat this measurement at several spots where there was no drifting and take the average of the readings of the snow depth. Record this amount in the right column only.</p>		<p><b>COUNTY NUMBERS</b></p> <table style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 50%; vertical-align: top;">                 1 AITKIN 2 ANOKA 3 BECKER 4 BELTRAMI 5 BENTON 6 BIG STONE 7 BLUE EARTH 8 BROWN 9 CARLTON 10 CARVER 11 CASS 12 CHIPPEWA 13 CHISAGO 14 CLAY 15 CLEARWATER 16 COOK 17 COTTONWOOD 18 CROW WING 19 DAKOTA 20 DODGE 21 DOUGLAS 22 FARIBAULT 23 FILLMORE 24 FREEBORN 25 GOODHUE 26 GRANT 27 HENNEPIN 28 HOUSTON 29 HUBBARD 30 ISANTI 31 ITASCA 32 JACKSON 33 KANABEC 34 KANDIYOHI 35 KITTSOON 36 KOOCHICHING 37 LAC QUI PARLE 38 LAKE 39 LAKE OF THE WOODS 40 LE SUEUR 41 LINCOLN 42 LYON 43 MCLEOD             </td> <td style="width: 50%; vertical-align: top;">                 44 MAHNOMEN 45 MARSHALL 46 MARTIN 47 MEEKER 48 MILLE LACS 49 MORRISON 50 MOWER 51 MURRAY 52 NICOLLET 53 NOBLES 54 NORMAN 55 OLMSTED 56 OTTER TAIL 57 PENNINGTON 58 PINE 59 PIPESTONE 60 POLK 61 POPE 62 RAMSEY 63 RED LAKE 64 REDWOOD 65 RENVILLE 66 RICE 67 ROCK 68 ROSEAU 69 SAINT LOUIS 70 SCOTT 71 SHERBURN 72 SIBLEY 73 STEARNS 74 STEELE 75 STEVENS 76 SWIFT 77 TODD 78 TRAVERSE 79 WABASHA 80 WADENA 81 WASECA 82 WASHINGTON 83 WATONWAN 84 WILKIN 85 WINONA 86 WRIGHT 87 YELLOW MEDICINE             </td> </tr> </table>		1 AITKIN 2 ANOKA 3 BECKER 4 BELTRAMI 5 BENTON 6 BIG STONE 7 BLUE EARTH 8 BROWN 9 CARLTON 10 CARVER 11 CASS 12 CHIPPEWA 13 CHISAGO 14 CLAY 15 CLEARWATER 16 COOK 17 COTTONWOOD 18 CROW WING 19 DAKOTA 20 DODGE 21 DOUGLAS 22 FARIBAULT 23 FILLMORE 24 FREEBORN 25 GOODHUE 26 GRANT 27 HENNEPIN 28 HOUSTON 29 HUBBARD 30 ISANTI 31 ITASCA 32 JACKSON 33 KANABEC 34 KANDIYOHI 35 KITTSOON 36 KOOCHICHING 37 LAC QUI PARLE 38 LAKE 39 LAKE OF THE WOODS 40 LE SUEUR 41 LINCOLN 42 LYON 43 MCLEOD	44 MAHNOMEN 45 MARSHALL 46 MARTIN 47 MEEKER 48 MILLE LACS 49 MORRISON 50 MOWER 51 MURRAY 52 NICOLLET 53 NOBLES 54 NORMAN 55 OLMSTED 56 OTTER TAIL 57 PENNINGTON 58 PINE 59 PIPESTONE 60 POLK 61 POPE 62 RAMSEY 63 RED LAKE 64 REDWOOD 65 RENVILLE 66 RICE 67 ROCK 68 ROSEAU 69 SAINT LOUIS 70 SCOTT 71 SHERBURN 72 SIBLEY 73 STEARNS 74 STEELE 75 STEVENS 76 SWIFT 77 TODD 78 TRAVERSE 79 WABASHA 80 WADENA 81 WASECA 82 WASHINGTON 83 WATONWAN 84 WILKIN 85 WINONA 86 WRIGHT 87 YELLOW MEDICINE																																
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# Observing Notes

WR-00906-02  
Rev. 3/01

## MINNESOTA CLIMATOLOGICAL NETWORK

0
1
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4
0
7
am
2
4
1
0
2
2
2
1
6
7

Year    Month    Ob Time    County    Township    Range    Section

Please include all rain (or liquid equivalent of snow) in the left hand column. Snowfall is in the middle column. Snow depth is in the right column.

"X" means no reading. The gauge was not out on these days.

Cumulative Total: Means gauge was in place from 10<sup>th</sup> to the 13<sup>th</sup> but was not read till the 13<sup>th</sup>. (This reading is the total from the 10<sup>th</sup>-13<sup>th</sup>.)

Phenology and weather events are useful.

For no precipitation use a '0' for zero.

A "T" for a Trace of precipitation.

Place an "X" in the last box if there is an X for any of the days that month.

Name <b>Jim Johnson</b>			County Name <b>Freeborn</b>			Township Name <b>Pickrel Lake</b>			
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24-HOUR AMOUNTS			REMARKS:			Gauge type (Check One):			
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						test tube		weighing	maximum catch depth (inches) <u>11</u>
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<b>X</b>			<b>01</b>						
<b>X</b>			<b>02</b>						
<b>X</b>			<b>03</b>						
<b>X</b>			<b>04</b>						
<b>start</b>	<b>in</b>	<b>spring</b>	<b>05</b>	<b>Put gauge out for the season</b>					
<b>0</b>		<b>0</b>	<b>06</b>	<b>Snow began @ 2PM ended 10PM. New snow measured on ground @10PM</b>					
<b>.43</b>	<b>4.1</b>	<b>3</b>	<b>07</b>						
<b>0</b>		<b>1</b>	<b>08</b>	<b>Sunny and breezy snow melting rapidly.</b>					
<b>0</b>		<b>0</b>	<b>09</b>						
<b>↓</b>			<b>10</b>						
<b>↓</b>			<b>11</b>						
<b>↓</b>			<b>12</b>						
<b>1.41</b>			<b>13</b>	<b>Gone on vacation on the 10<sup>th</sup>- 12<sup>th</sup>. 1.41 measured in gauge this morning.</b>					
<b>0</b>			<b>14</b>						
<b>0</b>			<b>15</b>	<b>15<sup>th</sup> Wind and rain from NW. Began 7PM end 8:35 PM. Corn crib, barn,</b>					
<b>.34</b>			<b>16</b>	<b>and many trees blown down. Tornado touched down one mile to the north.</b>					
<b>0</b>			<b>17</b>						
<b>0</b>			<b>18</b>						
<b>0</b>			<b>19</b>	<b>19<sup>th</sup> Ice storm began at 4PM rain and sleet. Ended 11PM. 1/2 inch</b>					
<b>.63</b>	<b>.5</b>	<b>.5</b>	<b>20</b>	<b>coating of ice on trees and cars. 1/2 inch of sleet on ground by dark.</b>					
<b>0</b>		<b>0</b>	<b>21</b>						
<b>0</b>			<b>22</b>	<b>Light rain in afternoon. Saw first red wing blackbird.</b>					
<b>.21</b>			<b>23</b>						
<b>0</b>			<b>24</b>						
<b>0</b>			<b>25</b>						
<b>0</b>			<b>26</b>						
<b>0</b>			<b>27</b>						
<b>0</b>			<b>28</b>						
<b>0</b>			<b>29</b>	<b>Dense fog in the morning. Visibility near zero. Some drizzle, not measurable.</b>					
<b>T</b>			<b>30</b>						
<b>0</b>			<b>31</b>						
<b>X</b>			<b>TOTALS</b>						

State Climatology Office, 439 Borlaug Hall, University of Minnesota, 1991 Upper Buford Circle, St. Paul, MN 55108-6028

Please check your address for the State Climatology Office.

State Climatology Office  
439 Borlaug Hall  
University of Minnesota  
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St. Paul, MN 55108-6028

Draw an "X" on each day for which the gauge **was not in use** for whatever reason was **not collecting precipitation**. Note the days on which you put out or took in your gauge.

Draw a **vertical line** through days on which you **did not observe** but the gauge was collecting. (If you **know** the days were dry but simply did not check your gauge, use zeros instead.)

On days with zero precipitation, a simple '0' is preferred over a blank or '0.00'.

The State Climatology Office data will interpret blanks as zeroes unless they have strong reasons to suspect that something else is happening. The vertical line through days with no observations is particularly important!

For **snowfall** observations, take care to write your values in the **middle column** labeled 'SNOW (Ins.& Tenths)'. The first column, labeled 'RAIN, MELTED SNOW, ETC (INS.&HDTHS)' is reserved for liquid precipitation or the **water equivalent** of snowfall; in other words, **the amount of water** in the snowfall. Finally, 'SNOW ON GROUND (INCHES)' is for measurements of the **accumulated snow pack** or **snow lying** as affected by the total fall and the settling of snow to date.