

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month January 2010

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches	Number of Days
	Max.	Min.					
1	-13	-39		C	NW		
2	-12	-30		C	S		
3	1	-22		C	SW		
4	6	-12		C	S		
5	11	-12		PCL	SE		
6	9	-13	0.03	PCL	NE	0.75	C - Clear <u>15</u>
7	-9	-13	0.02	C	N	0.25	PCL - P.Cloudy <u>8</u>
8	0	-20		CL	N		CL - Cloudy <u>8</u>
9	12	-15		C	S		
10	15	4		PCL	S		
11	22	3		C	N		
12	23	15		PCL	S		
13	29	16		C	S		
14	29	19	T	CL	N		
15	23	15		C	S		
16	36	17		C	S		
17	34	18		PCL	S		
18	25	8		PCL	S		
19	23	6		CL	S		
20	25	7		C	SE		
21	28	23	0.04	CL	S	0.5	Recorded by: James Cameron Research Plot Coordinator NW Research & Outreach Center University of Minnesota Crookston, Mn. 56716
22	36	27	0.20	CL	S	4	
23	35	32	0.68	CL	NW	2	
24	33	14	0.15	CL	NW	3	
25	15	-9	0.20	PCL	NW		
26	6	-6		C	N		
27	8	-10		PCL	N		
28	2	-12		C	S		
29	7	-17		C	S		
30	5	-12		C	NW		
31	1	-13		CL	N		

total 10.5

High Temperature for the Month 36 on January 16 & 22

Low Temperature for the Month -39 on January 1

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
January Avg. Temperature (F)	7.0	-2.0	7.4	6.5
January Precipitation (Inches)	1.32	0.12	0.49	0.45

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month February 2010

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches	Number of Days
	Max.	Min.					
1	6	-9		CL	E		
2	10	-17	0.04	CL	N	1	
3	17	3	T	CL	S	Trace	
4	25	6	T	CL	E	Mist	
5	30	17	0.01	CL	E	0.3	C - Clear <u>11</u>
6	28	0	0.18	CL	SE	3	
7	20	-1	0.18	CL	N	3	PCL - P.Cloudy <u>4</u>
8	23	-12		CL	E		
9	5	-23		C	N		CL - Cloudy <u>13</u>
10	9	-20		C	S		
11	19	-11		C	S		
12	16	9	T	CL	NW	Trace	
13	25	5		PCL	N		
14	10	0		C	N		
15	13	2		C	N		
16	21	-13		C	N		
17	19	-16		C	S		
18	18	-11		CL	E		
19	22	14		CL	SE		
20	27	8		CL	N		
21	20	2		PCL	S		
22	20	-3	0.02	CL	S	0.5	
23	4	-23		C	N		
24	10	-19		C	S		
25	22	-1		PCL	S		
26	27	8		PCL	S		
27	25	-3		C	S		
28	20	-5		C	NW		

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total 7.8
High Temperature for the Month 30 on February 5

Low Temperature for the Month -23 on February 9 & 23

		2010	2009	30 Yr. Avg.	120 Yr. Avg.
February	Avg. Temperature (F)	7.1	8.0	9.7	9.5
February	Precipitation (Inches)	0.43	1.16	0.52	0.49
Jan-Feb.	Precipitation (Inches)	1.75	1.28	1.01	0.94

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month March 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	29	3		C	NW
2	25	10		CL	S
3	25	13		CL	NW
4	39	16		C	S
5	31	14		PCL	S
6	35	13		PCL	N
7	39	14		CL	S
8	36	32	0.59	CL	S
9	38	32		CL	S
10	38	34	0.30	CL	E
11	39	34	0.35	CL	N
12	36	33	0.08	CL	N
13	43	32		PCL	S
14	40	32		CL	N
15	39	32		CL	S
16	44	28		C	N
17	45	32		C	S
18	49	19		CL	NW
19	28	17		PCL	NW
20	38	25		PCL	S
21	50	30		C	S
22	45	30	T	C	S
23	38	22		C	NW
24	45	8		C	S
25	29	9		C	NE
26	51	30		C	SE
27	50	24		PCL	NW
28	52	28		C	SW
29	63	43		C	SW
30	67	43		C	SW
31	64	39		PCL	SW

Number of Days

C - Clear	<u>13</u>
PCL - P.Cloudy	<u>7</u>
CL - Cloudy	<u>11</u>

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High Temperature for the Month 67 on March 30

Low Temperature for the Month 3 on March 1

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
March Avg. Temperature (F)	33.2	21.5	24.7	24.1
March Precipitation (Inches)	1.32	3.03	0.76	0.77
Jan-Mar. Precipitation (Inches)	3.07	4.31	1.77	1.71

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month April 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	56	40	T	CL	N
2	58	34		CL	E
3	56	33		PCL	NW
4	62	35		C	S
5	61	31		C	Wind
6	59	28		C	SW
7	50	22		C	N
8	55	28		C	S
9	56	23		C	S
10	59	22		C	S
11	62	35		C	NW
12	58	41	0.03	CL	S
13	65	58	0.33	CL	E
14	73	41		C	S
15	57	32		C	NW
16	61	26		C	NW
17	66	35		C	S
18	71	39		C	N
19	74	34		C	S
20	72	35		C	NE
21	67	32		C	S
22	69	36		C	S
23	75	49		C	S
24	72	48		CL	NW
25	65	43	0.03	CL	N
26	65	34		C	N
27	69	44		C	E
28	67	54		C	S
29	58	45	0.76	CL	SE
30	55	45	0.10	CL	NW

Number of Days

C - Clear	<u>21</u>
PCL - P.Cloudy	<u>1</u>
CL - Cloudy	<u>8</u>

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High Temperature for the Month 75 on April 23

Low Temperature for the Month 22 on April 7

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
April Avg. Temperature (F)	49.9	41.0	42.2	42.2
April Precipitation (Inches)	1.25	0.88	1.24	1.29
Jan-Apr. Precipitation (Inches)	4.32	5.19	3.01	3.00

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month May 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	53	38	0.03	CL	S
2	51	34	0.34	CL	NW
3	55	32		CL	N
4	63	40	0.31	C	SE
5	49	34	0.18	CL	N
6	50	37	T	CL	N
7	42	31	0.48	CL	NE
8	53	29		C	NW
9	58	44		C	S
10	59	43	0.05	CL	S
11	52	40	0.03	CL	E
12	54	44		CL	N
13	51	42	0.33	CL	N
14	72	42		C	W
15	76	53		C	S
16	72	56		C	S
17	78	47		C	S
18	81	54		C	S
19	81	46		C	S
20	83	51		C	S
21	81	57		C	S
22	75	63	0.42	PCL	NW
23	75	53		C	N
24	71	63	2.81	CL	SE
25	73	52		C	S
26	74	50		C	N
27	83	65		C	E
28	81	60	0.38	C	S
29	90	58		C	S
30	66	49		PCL	SW
31	76	54		C	SW

Number of Days

C - Clear	<u>18</u>
PCL - P.Cloudy	<u>2</u>
CL - Cloudy	<u>11</u>

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High Temperature for the Month 90 on May 29

Low Temperature for the Month 29 on May 8

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
May Avg. Temperature (F)	57.1	51.7	54.2	54.6
May Precipitation (Inches)	5.36	2.50	2.79	2.81
Jan-May Precipitation (Inches)	9.68	7.69	5.8	5.81

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month June 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	66	45	0.08	CL	NW
2	70	45		C	NE
3	74	55	0.30	C	S
4	76	51		C	S
5	77	49	0.20	CL	S
6	71	47	0.06	PCL	NW
7	77	58		C	S
8	65	51	0.10	CL	SW
9	60	43		CL	NW
10	58	50	0.60	CL	SE
11	67	56		PCL	E
12	68	55		CL	SW
13	72	47		PCL	SW
14	73	56		C	NE
15	72	52	0.14	CL	N
16	80	65		C	S
17	80	60	0.37	CL	SE
18	68	56	0.05	CL	S
19	73	57		CL	Wind
20	81	65		C	S
21	79	62	0.65	CL	S
22	82	61	0.10	PCL	SE
23	78	56		CL	NW
24	85	61	0.58	C	SW
25	80	64	1.05	C	S
26	81	66		CL	SW
27	78	51	0.05	C	W
28	70	46		C	NW
29	73	54		C	E
30	80	72		C	S

Number of Days

C - Clear	<u>13</u>
PCL - P.Cloudy	<u>4</u>
CL - Cloudy	<u>13</u>

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High Temperature for the Month 85 on June 24

Low Temperature for the Month 43 on June 9

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
June Avg. Temperature (F)	64.5	62.6	65.0	64.7
June Precipitation (Inches)	4.33	4.55	3.79	3.73
Jan-June Precipitation (Inches)	14.01	12.24	9.59	9.54

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month July 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	93	72		C	S
2	89	76		C	S
3	91	67		C	S
4	85	58	0.02	C	NW
5	81	54		PCL	N
6	80	62		C	SW
7	81	58		PCL	SW
8	80	51		C	NW
9	86	62		C	S
10	91	60		C	S
11	75	48	0.34	PCL	NW
12	78	58		C	SE
13	83	62		CL	S
14	79	56	1.26	PCL	E
15	82	63		C	NW
16	85	55		C	W
17	80	59		CL	SE
18	81	56		C	W
19	76	61	0.14	CL	S
20	80	56		C	SW
21	80	62		C	NW
22	75	59	0.70	CL	SE
23	79	61	0.06	C	W
24	80	54		CL	NW
25	82	64		C	S
26	89	66	0.02	CL	S
27	78	55	0.24	CL	SE
28	80	50		C	NW
29	81	60		C	S
30	80	62	0.07	CL	SE
31	87	63	0.20	C	N

Number of Days

C - Clear	<u>19</u>
PCL - P.Cloudy	<u>4</u>
CL - Cloudy	<u>8</u>

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High Temperature for the Month 93 on July 1

Low Temperature for the Month 48 on July 11

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
<u>July</u> Avg. Temperature (F)	70.9	65.3	69.9	69.7
<u>July</u> Precipitation (Inches)	3.05	3.43	3.25	3.02
<u>Jan-July</u> Precipitation (Inches)	17.06	15.67	12.84	12.56

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month August 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	83	64		C	S
2	87	66		PCL	S
3	87	63		C	NW
4	82	56		C	NW
5	81	54		C	NW
6	79	60		C	SE
7	85	66		C	S
8	93	65		C	SW
9	92	65		C	S
10	83	67	1.07	PCL	S
11	90	66		C	SW
12	78	67	0.35	PCL	S
13	81	61	0.10	PCL	NW
14	74	57	0.07	PCL	NW
15	71	53			NW
16	72	40			SW
17	81	49	0.17		S
18	68	48	0.18		NW
19	78	54			SE
20	82	62	0.07		S
21	83	64			NW
22	89	72			SW
23	88	54	0.08		S
24	72	47			SW
25	74	51			NW
26	81	55			SW
27	89	63			S
28	79	67			NW
29	88	62			S
30	86	61	0.19		NW
31	72	46		C	S

Number of Days

C - Clear	<u>10</u>
PCL - P.Cloudy	<u>5</u>
CL - Cloudy	<u>0</u>

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High Temperature for the Month 93 on August 8

Low Temperature for the Month 40 on August 16

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
August Avg. Temperature (F)	70.2	64.4	67.1	67.3
August Precipitation (Inches)	2.28	3.20	3.31	3.34
Jan-Aug. Precipitation (Inches)	19.34	18.87	16.15	15.9

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month September 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	77	54	0.02	C	S
2	65	48		PCL	SW
3	64	40		C	NW
4	70	45		PCL	SW
5	68	49	1.10	CL	NE
6	67	47	0.40	CL	NW
7	58	36	0.40	CL	NW
8	65	39		C	S
9	64	49		PCL	SE
10	60	50	1.95	CL	S
11	69	48		C	NW
12	72	40	0.03	PCL	NW
13	65	45		C	S
14	63	47	0.04	CL	S
15	60	33		CL	E
16	65	38	0.29	C	S
17	58	37		PCL	NW
18	61	45		PCL	NE
19	57	51		PCL	SE
20	58	50	0.04	CL	SE
21	55	40		PCL	S
22	59	42	0.05	C	SE
23	52	45	1.63	CL	E
24	61	46		CL	NW
25	65	49	0.13	CL	S
26	69	52		C	SW
27	72	43		PCL	N
28	68	46		CL	S
29	72	40	0.10	C	NW
30	70	42		C	S

Number of Days

C - Clear	<u>10</u>
PCL - P.Cloudy	<u>9</u>
CL - Cloudy	<u>11</u>

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High Temperature for the Month 77 on September 1

Low Temperature for the Month 33 on September 15

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
September Avg. Temperature (F)	54.4	64.0	58.1	57.7
September Precipitation (Inches)	6.18	1.79	2.35	2.45
Jan-Sept. Precipitation (Inches)	25.52	20.66	18.5	18.35

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month October 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	59	35	0.18	CL	NW
2	56	33		PCL	N
3	63	42		C	S
4	70	51		C	S
5	76	42		C	S
6	68	37		C	N
7	75	46		C	S
8	82	49		C	NW
9	83	48		C	S
10	78	46		C	NW
11	78	48		C	NW
12	65	33		PCL	NW
13	64	40		C	S
14	62	26		C	NW
15	64	28		C	NW
16	58	29		C	NW
17	52	30		PCL	NW
18	57	29		PCL	S
19	65	38		PCL	S
20	56	25		PCL	N
21	52	26		C	N
22	65	36		C	SE
23	52	34		CL	E
24	53	37		CL	E
25	55	45	0.56	CL	S
26	47	34	1.80	CL	NW
27	40	29	0.40	CL	NW
28	38	25		CL	NW
29	45	28		CL	S
30	38	33		CL	NW
31	44	33		PCL	S

Number of Days

C - Clear	<u>15</u>
PCL - P.Cloudy	<u>7</u>
CL - Cloudy	<u>9</u>

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High Temperature for the Month 83 on October 9

Low Temperature for the Month 25 on October 20 & 28

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
October Avg. Temperature (F)	48.0	39.1	43.7	44.4
October Precipitation (Inches)	2.94	3.22	2.01	1.91
Jan-Oct. Precipitation (Inches)	28.46	23.88	20.51	20.26

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month November 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	53	35		C	S
2	53	38	0.03	PCL	S
3	52	32		C	W
4	43	22		C	N
5	47	30		C	S
6	54	35		C	S
7	61	30		C	SW
8	61	33		C	SE
9	67	36		C	E
10	46	31		CL	S
11	46	23		CL	W
12	45	26		C	SW
13	35	25	0.02	CL	NE
14	34	27		CL	N
15	32	23		PCL	NW
16	35	24		CL	S
17	28	19		CL	NW
18	33	18		CL	E
19	28	5		PCL	NW
20	19	6	0.03	CL	NW
21	25	2		CL	W
22	13	0	0.30	CL	NW
23	23	-6		C	S
24	25	-9	0.05	CL	E
25	14	-7	0.01	CL	SW
26	20	-6		C	NW
27	25	-9		CL	SW
28	35	-7		CL	S
29	27	13		CL	NW
30	15	3	0.40	CL	NW

Number of Days

C - Clear	<u>11</u>
PCL - P.Cloudy	<u>3</u>
CL - Cloudy	<u>16</u>

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High Temperature for the Month 67 on November 9

Low Temperature for the Month -9 on November 24

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
November Avg. Temperature (F)	26.4	36.5	28.0	27.6
November Precipitation (Inches)	0.84	0.42	0.92	0.88
Jan-Nov. Precipitation (Inches)	29.3	24.3	21.43	21.14

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month December 2010

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	11	-4		C	N
2	12	-10		CL	N
3	16	0		PCL	N
4	18	-8	0.01	C	NW
5	20	-4		C	NW
6	12	-11		CL	NW
7	9	-10		PCL	S
8	19	14		CL	N
9	30	2		CL	S
10	10	-2		C	NW
11	5	-13		C	NW
12	-1	-16		C	NW
13	12	-15		C	E
14	20	11		PCL	S
15	24	9		PCL	SE
16	16	6		CL	N
17	17	10		CL	NW
18	11	-3		PCL	NW
19	10	-1		C	S
20	23	11	0.15	CL	N
21	24	9		C	NW
22	19	11		CL	N
23	22	15		CL	SE
24	19	5		CL	NW
25	10	0		CL	NW
26	15	5		C	SE
27	25	14		C	S
28	29	15		C	SW
29	28	10		C	SW
30	12	-6	0.35	CL	NW
31	8	-10	0.25	PCL	NW

snow

Number of Days

0.5

C - Clear	<u>13</u>
PCL - P.Cloudy	<u>6</u>
CL - Cloudy	<u>12</u>

5

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5

4

14.5

High Temperature for the Month 30 on December 9

Low Temperature for the Month -16 on December 12

	2010	2009	30 Yr. Avg.	120 Yr. Avg.
December Avg. Temperature (F)	8.7	7.2	13.4	12.2
December Precipitation (Inches)	0.76	1.82	0.56	0.63
Jan-Dec. Precipitation (Inches)	30.06	26.12	21.99	21.77