

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month January 2016

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches	Number of Days
	Max.	Min.					
1	23	10		CL	NW		
2	26	9		CL	SW		
3	27	3		CL	NW		
4	27	4		C	NW		
5	24	18		C	SW		14
6	28	25		CL	NW		
7	27	18	0.04	C	W	1	1
8	16	-2		CL	SW		
9	-5	-15		C	W		16
10	-8	-22		C	SW		
11	1	-10	0.03	C	SW	0.6	
12	-2	-18		C	NW		
13	16	0	0.02	C	S	0.5	
14	17	-8	0.19	CL	S	2.5	
15	-2	-15		CL	S		
16	-9	-20		CL	SE	0.2	
17	-8	-24		PCL	N		
18	0	-8		C	S		
19	12	-10	0.03	CL	W	0.5	
20	19	12		CL	N		
21	17	-3		CL	N		
22	13	-8		C	S		
23	28	12		C	SW		
24	23	17		C	S		
25	24	18	0.03	C	N	0.6	
26	23	16		CL	N		
27	36	20		CL	S	0.2	
28	34	16		CL	S		
29	36	20		CL	NW		
30	35	25		CL	SW		
31	27	18		C	NW		

6.1 total snow

High Temperature for the Month 36 on January 27 & 29

Low Temperature for the Month -24 on January 17

	2015	2014	30 Yr. Avg.	125 Yr. Avg.
January Avg. Temperature (F)	10.0	-0.7	6.6	4.8
January Precipitation (Inches)	0.34	0.90	0.50	0.58

Recorded by:
Chris Olson
Research Plot Technician
NW Research & Outreach Center
University of Minnesota
Crookston, Mn. 56716

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month February 2016

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches	Number of Days	
	Max.	Min.						
1	28	25		C	NW			
2	27	17		C	S			
3	24	7	0.04	PCL	W	0.8		
4	18	8		C	NW			
5	21	12		PCL	S	0.2	C - Clear	<u>16</u>
6	37	19		PCL	NW			
7	37	12	0.05	PCL	E	1	PCL - P.Cloudy	<u>4</u>
8	13	3	0.05	CL	N	1		
9	10	0		CL	W		CL - Cloudy	<u>9</u>
10	9	0		CL	E			
11	14	-2		C	NW			
12	5	-10		C	SE			
13	10	-12		CL	NW			
14	21	12	0.10	C	NW	2		
15	30	21		CL	S			
16	24	11		CL	NW			
17	27	11		CL	NW			
18	37	27		C	NW			
19	39	34		C	S			
20	35	20		CL	W			
21	21	15		C	NW			
22	34	19		C	N			
23	34	20		C	SW			
24	30	16		C	N			
25	28	23		C	NW			
26	41	21		C	NW			
27	45	30		C	S			
28	33	18		C	S			
29	16	-2		CL	NW			
total						5.0		

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High Temperature for the Month 45 on February 27

Low Temperature for the Month -12 on February 13

	2015	2014	30 Yr. Avg.	125 Yr. Avg.
February Avg. Temperature (F)	19.4	-0.4	9.4	8.9
February Precipitation (Inches)	0.24	0.22	0.49	0.52
Jan-Feb. Precipitation (Inches)	0.58	1.12	0.99	1.10

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month March 2016

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches	Number of Days	
	Max.	Min.						
1	21	5		C	S			
2	28	21		CL	NW			
3	26	17		C	NW			
4	35	19		CL	S	0.5	C - Clear	13
5	26	20		C	N			
6	55	30		C	W			
7	56	29		C	W		PCL - P.Cloudy	5
8	46	26		C	N			
9	28	25		CL	W		CL - Cloudy	13
10	36	29		PCL	W			
11	56	37		PCL	S			
12	65	35		C	W			
13	50	37		C	W			
14	66	39	0.01	CL	S			
15	53	33	0.27	CL	NW			
16	43	32		C	NW	0.2		
17	32	27	0.24	CL	S	1		
18	39	28		CL	E			
19	37	27		CL	NW			
20	38	30		PCL	NW			
21	43	28		C	E			
22	45	31		CL	S			
23	39	23		CL	SE			
24	48	19		PCL	NW			
25	38	27	0.04	CL	NW			
26	41	21		C	S			
27	54	23		C	S			
28	52	25		C	NW			
29	59	34		CL	S			
30	55	28	0.09	PCL	NE			
31	54	27		CL	N			

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total 1.7
66 on March 14

Low Temperature for the Month 5 on March 1

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
March Avg. Temperature (F)	35.4	30.4	25.8	23.9
March Precipitation (Inches)	0.65	0.17	0.86	0.91
Jan-Mar. Precipitation (Inches)	1.23	0.65	1.85	2.01

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month April 2016

	Temperatures		Precip.	Sky	Wind	snow
	Max.	Min.				
1	53	19		C	NW	
2	28	16		CL	E	
3	39	27		PCL	W	
4	37	15		C	N	
5	38	16		CL	S	
6	44	32	0.05	CL	N	
7	40	33	0.05	CL	N	
8	37	18		C	N	
9	45	16		CL	S	
10	39	27		CL	SE	
11	38	19		PCL	N	
12	36	10		C	S	
13	48	18		CL	S	
14	61	26		C	S	
15	66	28	0.15	CL	S	
16	63	39		C	E	
17	50	38		CL	N	
18	52	39	0.05	CL	NE	
19	54	42	0.05	CL	E	
20	61	43	0.01	CL	S	
21	50	34		PCL	E	
22	52	26	0.12	C	N	
23	64	43	0.17	C	SE	
24	48	39	0.28	CL	NE	
25	43	36	0.08	CL	E	
26	44	35	0.01	CL	E	
27	57	32		C	E	
28	58	38		PCL	E	
29	60	35		PCL	E	
30	61	37		C	S	

Number of Days

C - Clear	<u>10</u>
PCL - P.Cloudy	<u>5</u>
CL - Cloudy	<u>15</u>

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total 0.0
66 on April 15

High Temperature for the Month

Low Temperature for the Month

10 on April 12

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
April Avg. Temperature (F)	39.0	44.4	42.6	41.6
April Precipitation (Inches)	1.02	0.57	1.27	1.47
Jan-Apr. Precipitation (Inches)	2.25	1.22	3.12	3.48

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month May 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	64	34		C	N
2	72	43		C	N
3	66	45		C	N
4	70	30		C	SE
5	71	43		C	S
6	92	58		PCL	S
7	75	37		C	N
8	75	39		C	S
9	76	52		C	SE
10	78	50		CL	E
11	56	51	0.06	CL	S
12	67	44		CL	W
13	52	35	0.03	CL	NW
14	52	23		PCL	N
15	66	37		CL	S
16	63	36		PCL	NE
17	64	35		CL	E
18	70	39		CL	S
19	80	52		PCL	S
20	75	53		CL	S
21	81	48		C	SE
22	84	55		C	S
23	80	63	1.30	CL	S
24	82	55	0.05	CL	W
25	80	55		CL	E
26	69	55	0.62	PCL	W
27	74	52	0.07	C	NW
28	69	57	0.10	C	NE
29	75	58		PCL	NW
30	80	48		C	SE
31	60	57	4.45	CL	S

Number of Days

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

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High Temperature for the Month

92 on May 6

Low Temperature for the Month

23 on May 14

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
May Avg. Temperature (F)	59.0	52.8	57.1	55.1
May Precipitation (Inches)	6.68	2.56	2.96	2.77
Jan-May Precipitation (Inches)	8.93	3.78	6.08	6.25

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month June 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	68	52	0.44	CL	W
2	59	45	0.14	C	S
3	73	45		CL	S
4	71	55	0.01	CL	N
5	77	55	0.20	C	NW
6	68	51		CL	N
7	68	44		PCL	N
8	77	48		C	SE
9	84	59		C	SE
10	87	64	0.11	CL	NW
11	73	59		CL	NE
12	73	57	0.15	CL	SE
13	78	51		C	NE
14	80	56		CL	SE
15	72	59	0.04	CL	N
16	80	53		PCL	SW
17	69	62		CL	SE
18	78	60		C	SE
19	86	64		C	SW
20	75	57		C	N
21	77	51		C	NW
22	68	55		CL	NE
23	69	51	0.69	C	N
24	84	55		C	SE
25	82	64		C	SW
26	75	55		C	NW
27	69	51		PCL	N
28	71	44		C	W
29	82	51		C	SW
30	62	50		CL	N

Number of Days

C - Clear	<u>15</u>
PCL - P.Cloudy	<u>3</u>
CL - Cloudy	<u>12</u>

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High Temperature for the Month 87 on June 10

Low Temperature for the Month 44 on June 7 & 28

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
June Avg. Temperature (F)	64.3	64.7	65.5	64.8
June Precipitation (Inches)	1.78	3.7	3.74	3.70
Jan-June Precipitation (Inches)	10.71	7.48	9.82	9.95

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Month July 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	65	42		C	N
2	73	53		CL	SE
3	80	59		C	S
4	84	60		C	SW
5	86	62	0.03	C	S
6	79	52		PCL	N
7	73	59	0.42	PCL	E
8	77	57	0.06	C	NW
9	80	58	0.12	C	SE
10	82	65		CL	SE
11	71	64	0.45	CL	S
12	74	59	0.49	C	S
13	78	65		CL	W
14	69	55	0.07	CL	NW
15	73	51		C	NW
16	75	55		C	SE
17	80	60		C	W
18	78	57		C	E
19	87	62	0.88	C	SE
20	84	62		CL	S
21	86	62		CL	W
22	84	66		C	NE
23	82	64	0.22	C	SE
24	80	60		C	NW
25	87	57		C	SW
26	89	65		PCL	W
27	87	61	0.77	PCL	N
28	79	63		C	N
29	75	52		CL	NW
30	75	52		PCL	SE
31	74	52		C	SE

Number of Days

C - Clear	<u>18</u>
PCL - P.Cloudy	<u>5</u>
CL - Cloudy	<u>8</u>

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High Temperature for the Month 89 on July 26

Low Temperature for the Month 42 on July 1

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
July Avg. Temperature (F)	68.7	69.9	70.8	69.9
July Precipitation (Inches)	3.51	4.96	3.15	2.95
Jan-July Precipitation (Inches)	14.22	12.44	12.94	12.79

Month August 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	86	71		C	S
2	87	59	0.16	C	E
3	87	60		C	SE
4	75	59		PCL	NW
5	77	53		CL	NW
6	77	53		C	N
7	82	60		C	SE
8	80	60		PCL	S
9	81	64		C	N
10	80	57	0.43	CL	N
11	79	64	1.50	CL	N
12	81	63		C	W
13	75	55		PCL	NW
14	80	53		C	SW
15	66	59		C	SE
16	80	59	0.11	PCL	SE
17	83	57		C	S
18	87	62	0.17	CL	W
19	81	54		C	NW
20	69	50		CL	NW
21	75	44		PCL	SW
22	82	59		C	S
23	83	65		CL	SW
24	89	58	0.10	C	SW
25	76	55		CL	W
26	77	44		C	S
27	68	53	0.60	CL	SE
28	82	53		C	SE
29	78	57	0.27	CL	N
30	81	47		C	NW
31	80	50		PCL	N

Number of Days

C - Clear	<u>16</u>
PCL - P.Cloudy	<u>6</u>
CL - Cloudy	<u>9</u>

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High Temperature for the Month

89 on August 24

Low Temperature for the Month

44 on August 26 & 21

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
August	68.1	65.9	67.5	67.6
August	3.34	1.10	2.84	2.57
Jan-Aug.	17.56	13.54	15.78	15.36

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month September 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	76	49		C	E
2	79	57		C	S
3	80	64		C	S
4	71	62		CL	SE
5	64	57		CL	N
6	69	57		C	NW
7	71	48		C	E
8	72	51	1.04	C	W
9	74	51	0.12	PCL	SW
10	68	46		C	NW
11	80	55		C	S
12	64	51		CL	N
13	64	43		CL	W
14	55	33		C	S
15	66	39		CL	S
16	69	58	0.27	CL	S
17	69	46		C	NW
18	73	55		C	S
19	73	48		C	S
20	75	43		CL	S
21	75	48		CL	NE
22	71	45		C	NE
23	68	49		CL	E
24	77	57		CL	SE
25	68	48		C	SW
26	62	42	0.15	C	NW
27	63	41		PCL	W
28	60	39		CL	NE
29	64	48		CL	SE
30	69	46		C	SE

Number of Days

C - Clear	<u>13</u>
PCL - P.Cloudy	<u>2</u>
CL - Cloudy	<u>12</u>

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High Temperature for the Month

80 on September 3 & 11

Low Temperature for the Month

33 on September 14

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
September	59.4	62.9	57.7	57.7
September	1.58	0.27	2.39	2.19
Jan-Sept.	19.14	13.81	18.17	17.55

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Month October 2016

	Temperatures		Precip.	Sky	Wind
	Max.	Min.			
1	69	48		C	SE
2	75	55		C	SE
3	77	55		C	SE
4	69	55		C	SE
5	55	44	0.43	CL	SW
6	50	35		C	W
7	44	33		CL	NW
8	44	30		C	NW
9	59	28		C	SE
10	66	42		C	NE
11	46	37		CL	NW
12	41	26		CL	NW
13	53	24		CL	S
14	62	35		C	SE
15	66	42		CL	W
16	62	35		C	SE
17	57	44		C	SW
18	53	33		C	NW
19	44	30		CL	NW
20	41	28		CL	SE
21	55	33		CL	S
22	60	28		PCL	SE
23	51	32		CL	NE
24	51	24		CL	SE
25	55	37		C	SE
26	56	35	0.27	CL	SE
27	46	40	0.06	CL	S
28	55	45		CL	S
29	46	37		CL	N
30	44	30		C	SW
31	55	39		CL	SE

Number of Days

C - Clear	<u>14</u>
PCL - P.Cloudy	<u>1</u>
CL - Cloudy	<u>16</u>

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High Temperature for the Month 77 on October 3

Low Temperature for the Month 24 on October 13 & 24

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
October Avg. Temperature (F)	45.9	48.5	43.9	45.1
October Precipitation (Inches)	0.76	1.42	1.87	1.68
Jan-Oct. Precipitation (Inches)	19.90	15.23	20.04	19.23

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month November 2016

	Temperatures		Precip.	Sky	Wind	Snow Fall Inches
	Max.	Min.				
1	55	39		CL	SE	
2	58	39	0.03	CL	E	
3	52	37		CL	N	
4	53	33		CL	N	
5	60	33		CL	SE	
6	71	39		C	S	
7	57	37		C	SW	
8	55	28		C	NW	
9	57	33		C	SE	
10	63	37		C	N	
11	44	21		C	N	
12	55	33		C	SW	
13	64	35		C	SW	
14	44	34		CL	N	
15	45	34		PCL	SW	
16	56	26		CL	SE	
17	57	32		CL	N	
18	35	26		PCL	N	
19	30	17		C	NW	
20	35	24		C	SE	
21	39	21		PCL	SE	
22	40	23	0.31	CL	S	
23	35	32	0.20	CL	N	
24	35	33		CL	W	
25	41	30		CL	S	
26	41	30		C	S	
27	37	26		CL	SE	
28	44	35		CL	E	
29	45	36	0.34	CL	N	
30	39	31		CL	N	

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

71 on November 15

Low Temperature for the Month

17 on November 27

	2016	2015	30 Yr. Avg.	126 Yr. Avg.
November	39.6	33.8	26.2	26.9
November	0.88	1.05	0.87	0.72
Jan-Nov.	20.78	16.28	20.91	19.95

NW RESEARCH & OUTREACH CENTER, CROOKSTON, MN.

Month December 2016

	Temperatures		Sky	Wind	Precip.	Snowfall		
	Max.	Min.						
1	34	30	CL	N				
2	32	24	CL	N				
3	33	24	CL	SW				
4	33	28	CL	S	0.02			
5	32	22	CL	NW	0.03	3	C - Clear	12
6	32	17	CL	S	0.05	10		
7	21	15	CL	NW		3	PCL - P.Cloudy	6
8	19	6	CL	NW				
9	8	-9	PCL	NW			CL - Cloudy	13
10	0	-9	PCL	NE				
11	10	-11	CL	E		1 1/2		
12	5	-13	CL	SW			Snowfall Total (in)	26
13	6	-9	C	SW				
14	1	-9	C	NW				
15	0	-18	C	SW				
16	3	-4	PCL	N				
17	-4	-20	C	NW				
18	3	-20	C	S				
19	26	3	C	SW				
20	33	10	C	NW				
21	30	8	CL	S	0.01	2		
22	30	8	C	S				
23	33	10	C	S				
24	17	6	C	NE				
25	33	15	CL	E	0.32	1		
26	33	3	CL	NW	0.03	2 1/2		
27	21	1	C	W				
28	28	15	C	SW				
29	28	5	PCL	NW				
30	21	3	PCL	SE		1		
31	24	-5	PCL	SW		2		

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High Temperature for the Month 34 on December 1st

Low Temperature for the Month -20 on December 17th & 18th

		2016	2015	30 Yr. Avg.	124 Yr. Avg.
December	Avg. Temperature (F)	12.1	20.4	12.9	12.2
December	Precipitation (Inches)	0.46	0.70	0.64	0.58
Jan-Dec	Precipitation (Inches)	20.78	16.98	21.55	20.53