

**Nongrowing season (10/1/2019-4/30/2020)**

**University of MN Southwest Research and Outreach Center, Lamberton**

**<http://swroc.cfans.umn.edu>; 507-752-7372 (Phone)**

mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
1	1	23	11	48	3159	0.00	0.00	0.00	33	33	33	33	34	34	185	209
1	2	36	23	36	3195	0.00	0.00	0.00	33	33	34	33	34	34	121	234
1	3	35	30	33	3227	0.00	0.00	0.00	33	33	34	34	34	34	73	107
1	4	32	3	47	3275	0.17	2.10	0.17	34	33	34	34	34	34	54	105
1	5	40	4	43	3318	0.00	0.00	0.17	34	34	34	34	34	34	179	244
1	6	37	20	36	3354	0.00	0.00	0.17	34	34	34	34	34	34	181	227
1	7	35	16	39	3394	0.00	0.00	0.17	34	34	34	34	34	34	135	228
1	8	27	0	52	3445	0.00	0.00	0.17	34	33	34	34	34	34	118	98
1	9	27	2	51	3496	0.00	0.00	0.17	33	33	34	33	34	34	139	316
1	10	30	9	45	3541	0.00	0.00	0.17	33	33	34	33	34	34	158	105
1	11	10	-11	65	3606	0.01	0.10	0.18	33	33	34	33	34	34	98	126
1	12	6	-11	67	3674	0.00	0.00	0.18	33	33	33	33	34	34	205	87
1	13	21	6	52	3725	0.06	1.60	0.24	33	33	33	33	34	33	107	150
1	14	31	17	41	3766	0.00	0.00	0.24	33	33	33	33	33	33	113	195
1	15	21	8	51	3817	0.04	0.20	0.28	33	33	33	33	33	33	198	103
1	16	9	-13	67	3884	0.00	0.00	0.28	33	33	33	33	33	33	178	138
1	17	12	-13	65	3949	0.00	0.00	0.28	33	33	33	33	33	33	217	180
1	18	26	4	50	4000	0.15	5.00	0.43	33	32	33	33	33	33	51	298
1	19	5	-6	66	4066	0.00	0.00	0.43	33	33	33	33	33	33	179	256
1	20	1	-8	69	4134	0.00	0.00	0.43	33	32	33	33	33	33	212	106
1	21	5	-8	66	4201	0.00	0.00	0.43	33	32	33	33	33	33	224	170
1	22	35	5	45	4246	0.00	0.00	0.43	32	32	33	32	33	33	171	468
1	23	35	22	37	4283	0.00	0.00	0.43	32	32	33	32	33	33	86	143
1	24	31	21	39	4322	0.02	0.40	0.45	32	32	33	32	33	33	75	115
1	25	29	25	38	4360	0.00	0.00	0.45	33	32	33	33	33	33	104	106
1	26	28	13	44	4404	0.00	0.00	0.45	33	33	33	33	33	33	85	84
1	27	38	21	35	4440	0.00	0.00	0.45	33	33	33	33	33	33	218	90
1	28	23	13	47	4487	0.00	0.00	0.45	33	33	33	33	33	33	84	95
1	29	17	13	50	4537	0.00	0.00	0.45	33	33	33	33	33	33	125	65
1	30	21	15	47	4584	0.00	0.00	0.45	33	33	33	33	33	33	116	81
1	31	32	20	39	4623	0.00	0.00	0.45	33	33	33	33	33	33	96	115
<b>Monthly Total</b>				<b>1512</b>		<b>0.45</b>	<b>9.40</b>								<b>4284</b>	<b>5042</b>
<b>Monthly Ave.</b>		<b>24</b>	<b>8</b>						<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>		
<b>Historic Ave.</b>		<b>23</b>	<b>3</b>		<b>2864</b>	<b>0.58</b>		<b>0.58</b>	<b>29</b>	<b>27</b>	<b>30</b>	<b>28</b>	<b>29</b>	<b>29</b>		

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mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
2	1	33	22	38	4660	0.02	0.00	0.47	33	33	33	33	33	33	79	145
2	2	46	25	30	4690	0.00	0.00	0.47	33	33	33	33	33	33	163	299
2	3	42	27	30	4720	0.00	0.00	0.47	33	32	33	32	33	32	205	142
2	4	28	8	47	4768	0.00	0.00	0.47	33	33	33	33	33	33	103	191
2	5	20	8	51	4819	0.00	0.00	0.47	33	32	33	33	33	33	221	122
2	6	30	14	43	4862	0.00	0.00	0.47	32	32	33	33	33	33	249	215
2	7	29	10	46	4908	0.07	0.90	0.54	32	32	33	33	33	33	121	179
2	8	11	-4	62	4970	0.00	0.00	0.54	33	32	33	33	33	33	145	117
2	9	25	0	53	5022	0.51	10.60	1.05	32	32	33	33	33	33	284	226
2	10	21	-1	55	5077	0.00	0.00	1.05	32	32	33	33	33	33	234	145
2	11	27	9	47	5124	0.00	0.00	1.05	32	32	33	33	33	33	294	227
2	12	30	13	43	5168	0.00	0.00	1.05	32	32	33	33	33	33	302	341
2	13	31	-19	59	5227	0.01	0.10	1.06	32	32	33	33	33	33	194	191
2	14	-1	-19	75	5302	0.00	0.00	1.06	32	32	33	33	33	33	318	147
2	15	31	-2	51	5353	0.00	0.00	1.06	32	32	33	32	33	33	313	465
2	16	34	17	39	5392	0.00	0.00	1.06	32	32	32	32	33	33	306	99
2	17	26	14	45	5437	0.00	0.00	1.06	32	32	33	32	33	33	206	186
2	18	25	17	44	5481	0.12	0.90	1.18	32	32	33	32	33	33	110	106
2	19	20	-3	56	5537	0.00	0.00	1.18	32	32	33	32	33	33	244	82
2	20	9	-12	67	5604	0.00	0.00	1.18	32	32	33	33	33	33	334	77
2	21	23	-11	59	5663	0.00	0.00	1.18	32	32	33	32	33	33	348	339
2	22	37	21	36	5699	0.00	0.00	1.18	32	32	32	32	33	32	351	267
2	23	38	26	33	5733	0.00	0.00	1.18	32	32	32	32	33	32	291	207
2	24	41	22	34	5767	0.00	0.00	1.18	32	32	32	32	33	32	348	86
2	25	35	23	36	5803	0.00	0.00	1.18	32	32	32	32	32	32	313	132
2	26	28	9	47	5849	0.00	0.00	1.18	32	32	32	32	32	32	300	141
2	27	25	11	47	5897	0.00	0.00	1.18	32	32	32	32	33	32	286	89
2	28	23	13	47	5943	0.02	0.20	1.20	32	32	32	32	33	32	320	88
2	29	30	20	40	5983	0.00	0.00	1.20	32	32	33	32	33	33	185	139
<b>Monthly Total</b>				<b>1361</b>		<b>0.75</b>	<b>12.70</b>								<b>7166</b>	<b>5189</b>
<b>Monthly Ave.</b>		<b>27</b>	<b>9</b>						<b>32</b>	<b>32</b>	<b>33</b>	<b>33</b>	<b>33</b>	<b>33</b>		
<b>Historic Ave.</b>		<b>28</b>	<b>8</b>		<b>5890</b>	<b>0.72</b>		<b>1.27</b>	<b>29</b>	<b>27</b>	<b>30</b>	<b>29</b>	<b>29</b>	<b>28</b>		

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mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
3	1	44	26	30	6014	0.00	0.00	1.20	32	32	33	32	33	32	351	261
3	2	45	26	29	6043	0.00	0.00	1.20	32	32	32	32	32	32	338	155
3	3	38	26	33	6076	0.00	0.00	1.20	32	32	32	32	32	32	317	207
3	4	44	26	30	6106	0.00	0.00	1.20	32	32	32	32	33	32	350	128
3	5	53	31	23	6129	0.00	0.00	1.20	32	32	32	32	33	32	228	202
3	6	37	21	36	6165	0.00	0.00	1.20	32	32	32	32	33	33	67	174
3	7	41	24	33	6197	0.00	0.00	1.20	33	32	33	32	33	33	399	246
3	8	61	36	17	6214	0.00	0.00	1.20	38	32	37	32	35	33	355	454
3	9	63	26	21	6234	0.00	0.00	1.20	50	35	46	36	41	35	340	266
3	10	26	17	43	6277	0.00	0.00	1.20	35	32	36	33	37	34	89	108
3	11	35	18	38	6316	0.18	0.80	1.38	32	32	33	33	34	33	138	83
3	12	50	27	26	6342	0.00	0.00	1.38	41	32	38	33	36	33	353	155
3	13	43	26	31	6373	0.00	0.00	1.38	43	33	41	34	38	35	214	161
3	14	38	22	35	6408	0.00	0.00	1.38	42	33	39	33	36	34	385	160
3	15	32	22	38	6446	0.00	0.00	1.38	41	32	39	33	36	34		96
3	16	38	23	34	6480	0.00	0.00	1.38	39	32	37	33	36	34	320	180
3	17	38	26	33	6514	0.00	0.00	1.38	38	33	37	34	36	34		137
3	18	42	26	31	6545	0.00	0.00	1.38	45	33	41	33	38	34		155
3	19	44	36	25	6570	0.04	0.00	1.42	43	37	42	37	39	37	95	82
3	20	39	12	40	6610	0.56	0.30	1.98	40	33	40	34	39	36		140
3	21	27	12	45	6655	0.00	0.00	1.98	36	32	35	33	36	34	479	99
3	22	33	19	39	6694	0.00	0.00	1.98	32	32	33	33	34	34	219	177
3	23	42	30	29	6723	0.09	0.00	2.07	41	32	39	33	36	34	250	161
3	24	43	28	29	6753	0.00	0.00	2.07	48	34	44	35	40	36	264	100
3	25	51	36	21	6774	0.01	0.00	2.08	47	38	45	39	42	38	180	156
3	26	40	28	31	6805	0.15	0.20	2.23	43	34	42	36	40	37	105	94
3	27	43	28	30	6835	0.05	0.00	2.28	49	34	45	35	41	37	268	41
3	28	54	33	22	6856	0.06	0.00	2.34	52	37	48	38	44	39	298	163
3	29	45	32	27	6883	1.75	0.30	4.09	44	37	43	38	41	39	39	264
3	30	54	28	24	6907	0.00	0.00	4.09	54	36	50	38	46	39		122
3	31	59	29	21	6928	0.00	0.00	4.09	57	36	52	38	46	39		87
<b>Monthly Total</b>				<b>945</b>		<b>2.89</b>	<b>1.60</b>								<b>6441</b>	<b>5013</b>
<b>Monthly Ave.</b>		<b>43</b>	<b>26</b>						<b>40</b>	<b>33</b>	<b>39</b>	<b>34</b>	<b>37</b>	<b>35</b>		
<b>Historic Ave.</b>		<b>40</b>	<b>21</b>		<b>6966</b>	<b>1.49</b>		<b>2.70</b>	<b>37</b>	<b>31</b>	<b>36</b>	<b>33</b>	<b>33</b>	<b>32</b>		

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mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
4	1	54	34	21	6949	0.06	0.00	4.15	51	36	48	38	45	40	334	241
4	2	60	38	16	6966	0.00	0.00	4.15	55	40	52	41	47	42	376	265
4	3	60	20	25	6991	0.36	0.00	4.51	54	35	50	37	47	40	186	79
4	4	26	15	44	7035	0.00	0.00	4.51	35	33	37	34	40	37	218	0
4	5	43	19	34	7069	0.00	0.00	4.51	48	32	44	34	40	36	554	66
4	6	58	32	20	7089	0.00	0.00	4.51	53	34	48	36	44	37	455	142
4	7	68	45	9	7098	0.00	0.00	4.51	58	42	54	42	48	41	324	147
4	8	69	41	10	7109	0.00	0.00	4.51	67	47	61	47	53	46	499	75
4	9	52	30	24	7133	0.00	0.00	4.51	58	38	55	41	50	44	399	153
4	10	39	23	34	7167	0.00	0.00	4.51	50	35	47	37	45	40	401	160
4	11	51	29	25	7191	0.00	0.00	4.51	53	35	49	37	45	39	383	117
4	12	61	28	21	7212	0.20	3.20	4.71	59	38	54	40	48	41	378	208
4	13	30	11	45	7257	0.09	2.50	4.80	39	35	42	37	44	39	239	197
4	14	32	12	43	7300	0.00	0.00	4.80	35	35	37	36	39	37	562	204
4	15	30	7	47	7347	0.00	0.00	4.80	35	34	36	35	37	36	515	101
4	16	34	13	42	7388	0.00	0.00	4.80	34	33	35	34	36	35	586	73
4	17	43	26	30	7418	0.00	0.00	4.80	34	33	34	34	36	35		141
4	18	49	31	25	7443	0.00	0.00	4.80	47	33	44	34	41	35	510	180
4	19	67	31	16	7459	0.00	0.00	4.80	54	34	50	36	45	38		180
4	20	51	32	24	7483	0.00	0.00	4.80	58	37	54	39	48	41	600	170
4	21	65	26	20	7502	0.00	0.00	4.80	60	38	55	41	49	42		205
4	22	62	31	19	7521	0.00	0.00	4.80	62	38	56	40	50	42	537	141
4	23	77	34	10	7531	0.00	0.00	4.80	65	45	61	46	54	46	497	97
4	24	73	42	8	7538	0.07	0.00	4.87	66	45	60	47	54	48	443	146
4	25	64	34	16	7554	0.02	0.00	4.89	64	44	60	46	54	48	393	97
4	26	66	39	13	7567	0.00	0.00	4.89	64	44	59	46	54	48	442	109
4	27	70	46	7	7573	0.00	0.00	4.89	68	47	63	49	56	49	535	189
4	28	75	48	4	7577	0.37	0.00	5.26	71	52	65	53	59	52	556	162
4	29	57	39	17	7594	0.16	0.00	5.42	56	47	56	48	55	50		177
4	30	67	37	13	7607	0.00	0.00	5.42	60	47	59	48	55	50	586	187
<b>Monthly Total</b>				<b>679</b>		<b>1.33</b>	<b>5.70</b>								<b>11508</b>	<b>4411</b>
<b>Monthly Ave.</b>		<b>55</b>	<b>30</b>						<b>54</b>	<b>39</b>	<b>51</b>	<b>40</b>	<b>47</b>	<b>42</b>		
<b>Historic Ave.</b>		<b>56</b>	<b>34</b>		<b>7569</b>	<b>2.89</b>		<b>5.55</b>	<b>55</b>	<b>40</b>	<b>49</b>	<b>41</b>	<b>45</b>	<b>41</b>		

University of Minnesota  
 SW Research and Outreach Center  
 23669 130th Street; Lamberton, MN 56152

Growing Season Monthly Report  
 May 1 - September 30, 2020

mo	day	Tair Max	Tair Low	GDD	CumGDD	Historic Cum GDD	Daily Precip (in.)	Pan Evap (in.)	Soil Temperatures						Solar	Wind Run
									2" Max	2" Min	4" Max	4" Min	8" Max	8" Min		
5	1	70	45	10	10	7	0.00	0.20	69	47	66	48	60	50	623	90
5	2	86	48	18	28	14	0.00	0.33	71	53	68	54	62	54	559	217
5	3	73	39	12	39	22	0.00	0.27	68	52	66	54	62	56	541	137
5	4	70	37	10	50	30	0.00	0.28	71	52	68	54	62	55	632	173
5	5	60	44	5	55	40	0.27	0.16	59	51	58	52	57	53	288	202
5	6	49	42	0	55	50	0.33	0.00	53	48	53	49	53	50	139	95
5	7	62	40	6	61	59	0.00	0.14	61	47	59	49	55	50	466	112
5	8	60	32	5	66	69	0.00	0.15	60	44	58	46	55	49	412	114
5	9	53	29	2	67	77	0.00	0.19	61	44	59	46	55	48	663	123
5	10	65	34	7	75	87	0.05	0.13	55	44	54	46	52	48	310	260
5	11	48	33	0	75	97	0.00	0.10	50	43	49	45	49	46	258	156
5	12	53	28	1	76	106	0.00	0.18	61	43	58	44	54	46	677	114
5	13	58	37	4	80	115	0.00	0.21	65	44	62	46	57	47	625	82
5	14	58	50	4	84	125	0.01	0.06	55	52	54	52	53	52	140	183
5	15	73	40	11	95	136	0.00	0.16	66	51	63	52	59	52	460	96
5	16	71	48	11	106	148	0.00	0.23	69	51	66	52	61	53	632	98
5	17	55	49	3	109	160	1.52	0.04	57	52	57	52	56	53	109	193
5	18	52	47	1	110	173	0.45	0.01	53	49	53	50	53	51	104	304
5	19	65	50	8	117	185	0.00	0.14	60	49	58	50	56	51	387	215
5	20	61	52	6	124	197	0.00	0.11	61	54	60	54	57	54	297	158
5	21	68	56	12	136	210	0.00	0.11	64	56	63	56	59	56	266	195
5	22	65	54	10	146	222	0.00	0.11	63	57	62	57	60	57	237	166
5	23	66	56	11	157	235	0.22	-0.10	63	57	62	57	60	57	196	143
5	24	72	55	13	170	248	0.46	-0.22	69	58	66	58	63	58	316	103
5	25	77	58	17	187	260	0.00	0.05	71	59	68	59	64	59	404	137
5	26	72	58	15	202	272	0.15	-0.02	70	61	68	61	64	60	286	83
5	27	65	55	10	212	285	0.02	0.02	66	59	65	60	63	60	200	70
5	28	81	59	20	232	298	0.00	0.24	76	59	73	60	68	60	613	100
5	29	77	49	13	245	314	0.00	0.35	78	59	75	61	69	62	648	139
5	30	70	47	10	255	328	0.00	0.26	78	59	74	61	69	61	685	116
5	31	72	47	11	266	343	0.00	0.24	79	60	75	61	70	62	620	90
<b>Monthly Total</b>							<b>3.48</b>	<b>4.13</b>								
<b>Monthly Ave.</b>		<b>65</b>	<b>46</b>						<b>65</b>	<b>52</b>	<b>63</b>	<b>53</b>	<b>59</b>	<b>54</b>		
<b>Historic Ave.</b>		<b>70</b>	<b>46</b>				<b>3.58</b>		<b>70</b>	<b>53</b>	<b>63</b>	<b>53</b>	<b>58</b>	<b>53</b>		



University of Minnesota  
 SW Research and Outreach Center  
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Growing Season Monthly Report  
 May 1 - September 30, 2020

mo	day	Tair Max	Tair Low	GDD	CumGDD	Historic Cum GDD	Daily Precip (in.)	Pan Evap (in.)	Soil Temperatures						Solar	Wind Run	
									2" Max	2" Min	4" Max	4" Min	8" Max	8" Min			
6	1	75	60	17	284	358	0.00	0.24	74	60	72	61	68	62	455	240	
6	2	98	69	27	311	372	0.00	0.40	86	65	81	65	74	64	665	229	
6	3	97	59	22	333	387	0.00	0.38	88	68	83	69	76	69	570	186	
6	4	86	57	21	355	403	0.00	0.28	87	67	82	69	76	69	584	67	
6	5	88	58	22	377	420	0.09	0.28	87	67	83	69	77	68	606	135	
6	6	82	60	21	398	438	0.00	0.32	85	68	81	69	75	69	648	139	
6	7	82	66	24	422	456	0.22	0.21	78	66	76	67	72	67	388	341	
6	8	99	76	31	452	474	0.00	0.64	87	67	82	67	76	67	639	385	
6	9	98	70	28	480	491	0.00	0.63	89	74	85	74	79	72	653	290	
6	10	85	56	21	501	507	2.25	0.44	86	62	83	65	78	67	426	148	
6	11	73	53	13	514	525	0.00	0.29	73	60	72	62	69	64	673	175	
6	12	80	54	17	530	542	0.00	0.25	82	60	78	62	73	64	692	140	
6	13	86	55	20	551	560	0.00	0.39	86	64	81	65	74	66	603	192	
6	14	83	58	20	571	579	0.00	0.40	85	66	81	68	75	68	648	321	
6	15	85	62	23	594	598	0.00	0.43	83	67	79	68	74	68	597	347	
6	16	89	69	28	622	615	0.00	0.42	84	69	80	70	75	69	501	278	
6	17	92	70	28	650	633	0.00	0.65	87	72	84	73	77	72		287	
6	18	91	70	28	677	652	0.00	0.61	88	73	85	73	78	72	649	272	
6	19	78	55	16	694	670	0.77	0.20	77	63	76	65	74	67	143	101	
6	20	75	56	16	710	689	0.00	0.23	80	63	78	65	73	66	607	74	
6	21	75	60	17	727	708	0.00	0.13	78	64	76	66	72	67	402	84	
6	22	82	57	19	746	728	0.15	0.05	81	63	76	64	72	66	366	79	
6	23	76	56	16	762	747	0.00	0.26	81	63	78	64	73	66	564	96	
6	24	76	52	14	776	766	0.00	0.25	84	64	80	66	74	67	602	102	
6	25	81	54	18	793	786	0.00	0.23	87	65	83	67	76	68	647	75	
6	26	86	65	25	819	807	0.37	0.01	89	68	84	69	77	69	596	123	
6	27	83	58	21	840	828	0.01	0.19	85	68	82	70	77	71	568	69	
6	28	86	67	26	866	849	0.00	0.26	90	69	86	70	79	70	636	89	
6	29	82	67	25	891	870	0.02	0.20	82	72	80	73	76	73	364	174	
6	30	81	66	23	914	890	0.32	0.16	78	71	77	72	74	72	278	173	
<b>Monthly Total</b>							<b>4.20</b>	<b>9.43</b>									
<b>Monthly Ave.</b>		<b>84</b>	<b>61</b>							<b>84</b>	<b>66</b>	<b>80</b>	<b>68</b>	<b>75</b>	<b>68</b>		
<b>Historic Ave.</b>		<b>80</b>	<b>57</b>					<b>4.03</b>		<b>82</b>	<b>63</b>	<b>74</b>	<b>64</b>	<b>68</b>	<b>64</b>		





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 May 1 - September 30, 2020

mo	day	Tair Max	Tair Low	GDD	CumGDD	Historic Cum GDD	Daily Precip (in.)	Pan Evap (in.)	Soil Temperatures						Solar	Wind Run
									2" Max	2" Min	4" Max	4" Min	8" Max	8" Min		
7	1	87	64	25	939	911	0.71	0.37	83	70	81	72	77	72	434	184
7	2	85	66	25	965	932	0.00	0.20	86	70	83	71	78	72	598	70
7	3	88	66	26	990	952	0.00	0.28	93	72	89	73	82	73	634	76
7	4	89	66	26	1016	974	0.00	0.29	95	75	91	76	84	75	612	61
7	5	89	68	27	1043	995	0.00	0.27	97	76	92	77	86	77	631	49
7	6	88	65	26	1069	1017	1.15	0.53	96	74	92	76	86	79	591	95
7	7	78	67	22	1091	1039	0.20	0.17	83	72	81	73	79	75	343	60
7	8	84	68	26	1117	1061	0.00	0.19	87	72	84	73	80	74	603	89
7	9	90	68	27	1144	1081	0.00	0.33	92	74	88	75	82	75	570	139
7	10	83	61	22	1166	1103	0.00	0.13	86	70	84	72	80	74	367	70
7	11	84	64	24	1190	1125	0.00	0.16	92	71	88	72	82	74	595	45
7	12	82	59	20	1210	1147	0.42	0.28	88	68	83	70	80	72	513	80
7	13	82	62	22	1232	1169	0.00	0.22	89	68	85	70	80	72	671	58
7	14	86	65	25	1257	1190	0.25	0.19	91	71	87	72	81	73	591	161
7	15	74	53	13	1271	1212	0.07	0.05	78	64	77	66	77	69	330	67
7	16	80	55	17	1288	1234	0.00	0.19	85	64	82	66	77	69	577	59
7	17	85	64	24	1312	1257	0.00	0.29	89	65	85	68	79	70	634	137
7	18	89	67	26	1338	1280	0.48	0.42	93	74	89	74	83	74	602	183
7	19	89	60	23	1361	1303	0.00	0.21	87	69	84	71	80	74	459	111
7	20	82	60	21	1383	1324	0.00	0.27	88	69	85	71	80	73	640	89
7	21	82	64	23	1406	1346	0.35	0.25	93	71	88	72	82	73	582	90
7	22	76	55	15	1421	1367	0.11	0.11	83	66	81	69	78	71	570	82
7	23	75	57	16	1437	1388	0.00	0.23	86	67	83	69	78	71	615	84
7	24	82	62	22	1459	1409	0.01	0.17	88	68	84	70	79	71	523	175
7	25	90	72	29	1488	1431	0.11	0.19	94	74	90	75	83	75	581	174
7	26	89	69	27	1516	1453	1.82	0.28	87	74	85	75	81	77	345	154
7	27	81	59	20	1535	1473	0.00	0.18	84	67	82	69	79	72	423	94
7	28	83	64	23	1559	1493	0.00	0.27	88	67	85	69	80	71	637	100
7	29	83	57	20	1578	1513	0.00	0.28	92	71	88	72	83	73	633	87
7	30	80	59	19	1598	1533	0.00	0.20	87	71	85	73	81	74	543	63
7	31	77	56	16	1614	1554	0.00	0.23	87	69	84	71	80	74	555	86
<b>Monthly Total</b>							<b>5.68</b>	<b>7.43</b>								
<b>Monthly Ave.</b>		<b>83</b>	<b>63</b>						<b>89</b>	<b>70</b>	<b>85</b>	<b>72</b>	<b>81</b>	<b>73</b>		
<b>Historic Ave.</b>		<b>84</b>	<b>61</b>				<b>3.79</b>		<b>89</b>	<b>69</b>	<b>82</b>	<b>71</b>	<b>75</b>	<b>71</b>		



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mo	day	Tair Max	Tair Low	GDD	CumGDD	Historic Cum GDD	Daily Precip (in.)	Pan Evap (in.)	Soil Temperatures						Solar	Wind Run
									2" Max	2" Min	4" Max	4" Min	8" Max	8" Min		
8	1	82	62	22	1636	1575	0.35	0.23	89	70	86	71	81	73	549	38
8	2	78	59	18	1655	1596	0.02	0.15	80	66	79	68	76	71	389	96
8	3	74	49	12	1667	1616	0.00	0.25	80	62	78	65	75	68	569	116
8	4	74	50	12	1679	1636	0.00	0.16	84	63	80	65	76	67	545	53
8	5	75	54	15	1694	1655	0.00	0.23	86	64	83	66	78	68	600	75
8	6	70	61	16	1709	1675	0.65	0.22	77	67	76	68	73	70	265	125
8	7	79	63	21	1730	1696	0.00	0.10	77	67	75	68	73	69	310	112
8	8	84	70	27	1757	1716	0.00	0.13	80	68	78	69	75	70	381	140
8	9	79	66	23	1780	1737	0.24	0.18	78	69	76	70	74	71	260	110
8	10	88	64	25	1804	1755	0.02	0.21	85	69	82	70	77	70	492	127
8	11	77	54	15	1820	1774	0.01	0.13	81	64	80	66	76	69	414	68
8	12	81	62	22	1841	1793	0.00	0.23	86	64	82	66	77	68	580	104
8	13	84	65	24	1866	1813	0.01	0.09	82	70	80	71	76	71	329	139
8	14	87	71	29	1894	1831	0.00	0.24	89	72	86	73	80	73	551	153
8	15	85	53	19	1913	1850	0.00	0.21	84	67	82	70	79	72	382	147
8	16	82	56	19	1932	1870	0.00	0.19	86	67	83	69	79	71	554	84
8	17	86	57	21	1953	1889	0.00	0.22	90	69	86	71	81	72		72
8	18	77	49	14	1967	1907	0.00	0.23	87	67	84	70	79	73	580	83
8	19	81	57	19	1986	1925	0.00	0.20	88	67	85	70	80	71	583	64
8	20	85	63	13	1998	1943	0.00	0.34	87	69	84	71	79	72	559	166
8	21	82	67	24	2022	1961	0.06	0.11	80	70	79	72	76	73	361	146
8	22	89	66	26	2048	1980	0.00	0.29	88	70	85	72	80	72	500	136
8	23	88	64	25	2074	1999	0.00	0.21	91	73	88	75	82	75	545	75
8	24	92	65	26	2099	2017	0.00	0.27	92	74	89	76	83	76	501	57
8	25	88	64	25	2124	2036	0.00	0.17	90	74	87	76	82	77	419	83
8	26	91	69	28	2152	2055	0.00	0.27	90	74	87	75	82	76	484	150
8	27	92	67	26	2178	2074	0.01	0.27	89	75	87	76	82	76	472	108
8	28	84	65	24	2202	2092	1.06	0.41	88	71	86	74	81	76	444	112
8	29	81	53	17	2220	2109	0.00	0.25	82	64	81	66	78	70		127
8	30	76	53	15	2234	2127	0.00	0.17	81	64	79	66	75	69	546	72
8	31	74	53	13	2248	2144	1.37	0.38	74	63	73	66	71	68		135
<b>Monthly Total</b>							<b>3.80</b>	<b>6.74</b>								
<b>Monthly Ave.</b>		<b>82</b>	<b>60</b>						<b>85</b>	<b>68</b>	<b>82</b>	<b>70</b>	<b>78</b>	<b>72</b>		
<b>Historic Ave.</b>		<b>81</b>	<b>58</b>				<b>3.16</b>		<b>86</b>	<b>67</b>	<b>79</b>	<b>69</b>	<b>74</b>	<b>69</b>		

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mo	day	Tair Max	Tair Low	GDD	CumGDD	Historic Cum GDD	Daily Precip (in.)	Pan Evap (in.)	Soil Temperatures						Solar	Wind Run
									2" Max	2" Min	4" Max	4" Min	8" Max	8" Min		
9	1	73	53	13	2260	2162	0.00	0.18	75	62	73	63	71	66		81
9	2	76	54	15	2275	2179	0.00	0.19	72	60	72	62	69	65		124
9	3	84	56	20	2295	2197	0.00	0.31	82	60	79	61	73	64		174
9	4	71	50	10	2306	2213	0.00	0.24	78	61	77	63	73	66		142
9	5	82	47	16	2322	2230	0.00	0.20	81	61	79	63	73	65		103
9	6	80	51	16	2337	2247	0.02	0.16	80	62	78	64	73	66	439	166
9	7	84	49	17	2354	2263	0.00	0.23	81	64	79	66	74	68	439	122
9	8	53	43	1	2356	2279	0.23	0.08	64	54	66	56	69	60	84	119
9	9	48	42	0	2356	2293	0.00	0.03	56	52	57	53	60	56	96	87
9	10	47	35	0	2356	2308	0.08	0.01	56	48	56	50	57	53	118	38
9	11	60	39	5	2360	2323	0.00	0.09	67	48	65	50	61	53	433	50
9	12	56	48	3	2363	2337	0.46	0.07	59	54	59	55	59	57	117	93
9	13	65	45	7	2371	2351	0.06	0.01	65	54	64	55	62	58	220	63
9	14	79	47	15	2385	2363	0.00	0.10	72	53	69	55	65	57	406	75
9	15	85	53	19	2405	2375	0.00	0.20	72	58	70	59	66	60	393	193
9	16	83	56	20	2424	2387	0.00	0.18	73	61	72	62	68	62	378	168
9	17	68	41	9	2433	2400	0.00	0.19	73	55	71	57	67	61	396	91
9	18	63	37	7	2440	2413	0.00	0.15	71	53	68	56	65	59	403	79
9	19	66	40	8	2448	2426	0.00	0.14	71	53	68	55	64	58	448	103
9	20	74	53	13	2461	2437	0.00	0.16	70	56	68	58	64	59	301	183
9	21	80	56	18	2479	2448	0.00	0.31	69	58	67	59	65	60	274	227
9	22	80	57	18	2498	2458	0.00	0.28	76	60	73	61	68	62		107
9	23	86	58	22	2519	2467	0.00	0.21	79	61	75	63	70	63	403	105
9	24	85	57	21	2541	2477	0.00	0.26	78	63	75	64	70	65	366	112
9	25	78	59	18	2559	2488	0.00	0.29	78	63	76	65	71	66	389	113
9	26	83	52	17	2576	2498	0.00	0.23	75	62	73	63	69	65	305	99
9	27	74	51	13	2589	2509	0.00	0.38	70	58	68	60	66	62	152	111
9	28	66	49	8	2597	2519	0.18	0.08	68	55	66	57	64	59	299	183
9	29	57	42	4	2601	2529	0.01	0.10	60	51	60	53	60	56	200	138
9	30	74	48	12	2613	2539	0.00	0.14	65	52	63	53	60	56	271	168

<b>Monthly Total</b>							<b>1.04</b>	<b>5.20</b>								
<b>Monthly Ave.</b>		<b>72</b>	<b>49</b>						<b>71</b>	<b>57</b>	<b>70</b>	<b>59</b>	<b>67</b>	<b>61</b>		
<b>Historic Ave.</b>		<b>74</b>	<b>48</b>				<b>3.25</b>		<b>73</b>	<b>58</b>	<b>69</b>	<b>60</b>	<b>66</b>	<b>61</b>		



**Nongrowing season (10/1/2020-4/30/2021)**

**University of MN Southwest Research and Outreach Center, Lamberton**  
<http://swroc.cfans.umn.edu>; 507-752-7372 (Phone)

mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
10	1	63	44	11	11	0.03	0.00	23.65	64	52	62	53	60	56		177
10	2	51	30	25	36	0.00	0.00	23.65	61	46	60	48	58	52	295	124
10	3	52	34	22	58	0.00	0.00	23.65	61	46	58	48	56	51	265	57
10	4	51	28	25	83	0.02	0.00	23.67	58	46	57	48	56	52	198	63
10	5	60	29	20	103	0.00	0.00	23.67	62	45	60	47	57	51	389	155
10	6	77	45	4	107	0.00	0.00	23.67	65	51	63	52	59	53	326	169
10	7	84	49	0	107	0.00	0.00	23.67	68	52	66	53	61	55	354	172
10	8	71	35	12	119	0.00	0.00	23.67	68	52	66	54	62	57	364	94
10	9	72	36	11	130	0.00	0.00	23.67	66	52	64	53	61	56	341	228
10	10	84	43	1	132	0.00	0.00	23.67	71	55	69	57	64	59	305	123
10	11	68	43	10	141	0.00	0.00	23.67	68	54	66	56	62	57	353	121
10	12	83	45	1	142	0.10	0.00	23.77	69	54	66	56	63	57	289	228
10	13	66	45	9	152	0.00	0.00	23.77	63	53	62	55	60	56	354	242
10	14	62	41	13	165	0.00	0.00	23.77	62	53	61	54	59	55	341	176
10	15	65	28	19	184	0.00	0.00	23.77	60	44	59	47	58	52	175	225
10	16	52	28	25	209	0.00	0.00	23.77	56	43	55	45	54	49	298	180
10	17	48	34	24	233	0.01	0.00	23.78	53	43	52	45	52	49	268	169
10	18	56	25	24	257	0.00	0.00	23.78	53	41	52	43	52	47	154	128
10	19	39	22	35	292	0.00	0.00	23.78	50	41	49	42	49	45	235	82
10	20	35	30	33	325	0.06	0.30	23.84	43	40	43	41	45	44	65	126
10	21	37	30	32	356	0.43	4.00	24.27	40	37	41	38	44	41	77	149
10	22	35	27	34	391	0.06	0.00	24.33	38	37	38	38	41	41	84	117
10	23	33	29	34	424	0.13	0.40	24.34	37	36	38	37	41	40	66	10
10	24	32	17	41	465	0.01	0.00	24.39	38	34	39	36	40	39	281	107
10	25	27	20	42	507	0.05	1.50	24.49	35	34	36	35	39	39	155	119
10	26	26	16	44	551	0.10	1.00	24.59	36	35	37	36	39	39	163	109
10	27	25	2	51	602	0.00	0.00	24.59	36	35	37	36	39	38	293	88
10	28	31	10	44	646	0.00	0.00	24.59	35	35	36	36	38	38	307	302
10	29	46	25	30	676	0.00	0.00	24.59	41	35	41	36	40	38	270	128
10	30	35	25	35	711	0.00	0.00	24.59	40	35	39	36	40	38	186	84
10	31	47	32	26	737	0.00	0.00	24.59	45	37	44	38	43	39	370	236
<b>Monthly Total</b>				<b>737</b>		<b>1.00</b>	<b>7.20</b>								<b>7620</b>	<b>4490</b>
<b>Monthly Ave.</b>		<b>52</b>	<b>31</b>						<b>53</b>	<b>44</b>	<b>52</b>	<b>45</b>	<b>51</b>	<b>48</b>		
<b>Historic Ave.</b>		<b>61</b>	<b>36</b>		<b>518</b>	<b>2.21</b>		<b>25.40</b>	<b>57</b>	<b>45</b>	<b>55</b>	<b>48</b>	<b>53</b>	<b>49</b>		

**Nongrowing season (10/1/2020-4/30/2021)**

**University of MN Southwest Research and Outreach Center, Lamberton**  
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mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
11	1	56	24	25	761	0.00	0.00	24.59	48	36	46	38	44	40	234	236
11	2	39	24	34	795	0.00	0.00	24.59	41	35	40	36	41	38	277	177
11	3	65	33	16	811	0.00	0.00	24.59	47	35	45	36	43	38	264	171
11	4	79	35	8	819	0.00	0.00	24.59	52	39	50	40	46	41	264	174
11	5	80	40	5	824	0.00	0.00	24.59	53	40	51	41	48	43	260	148
11	6	73	46	5	829	0.00	0.00	24.59	54	44	52	44	49	45	244	155
11	7	79	49	1	830	0.00	0.00	24.59	55	46	54	47	51	47	223	432
11	8	74	55	0	830	0.00	0.00	24.59	58	53	57	52	54	51	189	420
11	9	72	40	9	839	0.42	0.00	25.01	59	52	58	53	55	52	224	319
11	10	41	25	32	871	0.76	0.00	25.77	52	38	54	40	54	43	22	109
11	11	27	15	44	915	0.36	4.00	26.13	38	37	40	38	43	41	45	217
11	12	33	16	41	956	0.00	0.00	26.13	37	36	38	37	41	40	213	196
11	13	27	7	48	1004	0.01	0.10	26.14	36	36	37	37	40	39	164	114
11	14	35	17	39	1043	0.00	0.00	26.14	36	35	37	36	39	38	238	387
11	15	40	30	30	1073	0.00	0.00	26.14	35	35	36	36	38	38	99	160
11	16	34	23	36	1109	0.00	0.00	26.14	36	35	36	36	38	38	101	170
11	17	45	16	34	1144	0.00	0.00	26.14	38	33	37	34	38	37	212	121
11	18	37	20	36	1180	0.00	0.00	26.14	34	33	35	34	37	36	126	176
11	19	53	35	21	1201	0.00	0.00	26.14	42	33	41	35	41	36	158	251
11	20	52	32	23	1224	0.00	0.00	26.14	46	37	45	38	43	40	137	73
11	21	39	17	37	1261	0.00	0.00	26.14	44	34	43	35	41	38	198	57
11	22	43	21	33	1294	0.00	0.00	26.14	38	34	38	35	38	37	204	172
11	23	46	17	34	1328	0.00	0.00	26.14	43	33	41	35	40	37	200	92
11	24	40	17	37	1364	0.00	0.00	26.14	36	33	37	34	37	36	158	196
11	25	38	29	32	1396	0.00	0.00	26.14	39	36	39	37	39	37	25	94
11	26	35	28	34	1429	0.00	0.00	26.14	39	35	39	36	39	38	59	124
11	27	37	22	35	1465	0.00	0.00	26.14	39	33	38	35	38	37	114	120
11	28	41	23	33	1498	0.00	0.00	26.14	36	33	35	34	37	36	190	181
11	29	59	31	20	1518	0.00	0.00	26.14	40	33	39	34	38	36	193	198
11	30	34	13	42	1559	0.00	0.00	26.14	38	32	37	33	37	34	174	130
<b>Monthly Total</b>				<b>823</b>		<b>1.55</b>	<b>4.10</b>								<b>5208</b>	<b>5572</b>
<b>Monthly Ave.</b>		<b>48</b>	<b>27</b>						<b>43</b>	<b>37</b>	<b>42</b>	<b>38</b>	<b>42</b>	<b>40</b>		
<b>Historic Ave.</b>		<b>42</b>	<b>23</b>		<b>1486</b>	<b>1.23</b>		<b>26.63</b>	<b>40</b>	<b>35</b>	<b>41</b>	<b>37</b>	<b>40</b>	<b>38</b>		



**Nongrowing season (10/1/2020-4/30/2021)**

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mo	day	Tair Max F	Tair Low F	HDD	Cum HDD	Precip (in.)	Snow (in.)	Precip 2020	Soil Temperatures				Solar	Wind Run		
									2" Max	2" Min	4" Max	4" Min			8" Max	8" Min
12	1	35	13	41	1600	0.00	0.00	26.14	32	31	33	32	36	34	196	56
12	2	45	16	35	1635	0.00	0.00	26.14	32	31	33	32	34	34	190	98
12	3	36	22	36	1671	0.00	0.00	26.14	32	31	33	32	34	34	179	120
12	4	47	24	29	1700	0.00	0.00	26.14	32	31	33	32	34	34	162	146
12	5	46	20	32	1732	0.00	0.00	26.14	34	32	33	33	34	34	178	65
12	6	48	24	29	1761	0.00	0.00	26.14	34	32	34	33	35	34	176	84
12	7	43	19	34	1795	0.00	0.00	26.14	37	33	36	34	35	34	92	71
12	8	39	20	36	1831	0.00	0.00	26.14	34	33	34	33	35	34	117	86
12	9	55	30	23	1853	0.00	0.00	26.14	37	33	36	33	35	34	136	111
12	10	52	31	24	1877	0.00	0.00	26.14	41	34	39	35	37	35	167	104
12	11	44	26	30	1907	0.00	0.00	26.14	40	34	39	35	38	36	145	125
12	12	37	21	36	1943	0.00	0.00	26.14	37	33	37	34	37	35	106	201
12	13	29	19	41	1984	0.00	0.00	26.14	33	32	34	33	36	35	46	124
12	14	30	7	47	2030	0.00	0.00	26.14	33	30	33	32	35	34	51	154
12	15	16	7	53	2083	0.00	0.00	26.14	31	29	32	31	34	33	120	64
12	16	29	13	44	2127	0.00	0.00	26.14	31	29	32	31	33	33	82	143
12	17	32	16	41	2169	0.00	0.00	26.14	31	29	32	31	33	33	140	148
12	18	33	20	38	2207	0.00	0.00	26.14	31	30	32	31	33	32	92	152
12	19	40	4	43	2250	0.00	0.00	26.14	32	29	32	31	33	33	58	148
12	20	34	4	46	2296	0.00	0.00	26.14	31	29	31	31	33	32	175	159
12	21	42	25	31	2328	0.00	0.00	26.14	32	29	32	30	32	32	109	201
12	22	40	12	39	2367	0.00	0.00	26.14	32	31	32	32	33	32	103	147
12	23	56	25	24	2391	0.00	0.00	26.14	32	31	32	32	33	33	148	317
12	24	29	-6	54	2445	0.33	3.40	26.47	32	31	32	32	33	33	19	281
12	25	5	-6	66	2511	0.00	0.00	26.47	31	31	32	32	33	33	178	98
12	26	31	3	48	2558	0.00	0.00	26.47	31	31	32	32	33	33	172	126
12	27	30	9	46	2604	0.00	0.00	26.47	31	31	32	31	33	32	145	109
12	28	24	4	51	2655	0.07	0.80	26.54	32	31	32	32	33	32	66	118
12	29	26	-3	54	2709	0.00	0.00	26.54	32	31	32	32	33	32	139	69
12	30	25	17	44	2752	0.05	1.00	26.59	32	31	32	32	32	32	66	203
12	31	25	14	45	2798	0.00	0.00	26.59	32	32	32	32	33	32	111	144
<b>Monthly Total</b>				<b>1238</b>		<b>0.45</b>	<b>5.20</b>								<b>3863</b>	<b>4171</b>
<b>Monthly Ave.</b>		<b>36</b>	<b>15</b>						<b>33</b>	<b>31</b>	<b>33</b>	<b>32</b>	<b>34</b>	<b>33</b>		
<b>Historic Ave.</b>		<b>27</b>	<b>9</b>		<b>2920</b>	<b>0.77</b>		<b>27.39</b>	<b>31</b>	<b>30</b>	<b>32</b>	<b>31</b>	<b>33</b>	<b>32</b>		