

## 2003 Weather Data for the Turf Research Farm at Gilbert, IA.

Minimum air temperature (Air min), maximum air temperature (Air max), and soil temperature at 4in. (Soil4 min and max) measured in degrees Fahrenheit (°F). Average wind speed (Wind avg) measured in mph. Rain measured in inches.

January								February							March							April								
Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.		Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.		Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.		Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.
1	23.4	30.9	6.2	31.1	31.8	0		1	29.8	48.9	3.5	31.1	31.8	0		1	21.0	34.3	4.0	30.7	31.5	0		1	63.5	88.3	8.9	51.4	59.7	0
2	11.7	32.9	4.4	30.4	31.8	0		2	31.6	43.5	7.2	31.8	32.0	0		2	1.4	21.0	6.8	23.0	31.5	0		2	47.3	81.9	7.0	49.6	64.8	0
3	6.3	38.7	2.7	28.6	31.6	0		3	14.0	37.0	10.3	32.0	32.0	0		3	12.6	36.5	5.7	23.5	27.9	0.04		3	36.9	76.5	7.6	50.7	60.1	0
4	25.5	44.2	3.3	30.9	32.0	0.04		4	4.6	19.6	6.6	31.8	32.0	0		4	8.2	19.8	9.1	26.2	27.3	0.01		4	26.4	36.9	8.5	40.5	52.9	0.07
5	28.6	35.1	6.5	31.8	32.0	0		5	3.4	29.1	4.9	29.7	32.0	0		5	0.0	18.9	5.3	26.6	27.5	0.02		5	24.6	32.4	5.8	38.7	44.2	0.01
6	20.8	34.5	5.5	31.8	32.0	0		6	-3.1	24.8	8.4	23.9	29.7	0		6	5.7	29.5	6.3	27.5	28.2	0.04		6	25.9	42.1	11.1	35.8	41.0	0.06
7	23.0	60.8	5.9	31.1	32.2	0		7	-11.0	19.2	6.3	19.6	25.0	0		7	15.4	31.8	5.4	28.2	29.3	0		7	28.4	31.6	10.2	35.2	37.8	0.17
8	32.9	62.6	5.9	32.0	34.0	0		8	1.4	26.6	6.9	22.6	28.6	0		8	1.6	23.2	9.5	27.1	28.4	0		8	23.0	36.9	6.5	34.5	35.2	0
9	20.5	42.1	9.5	32.0	32.2	0		9	-2.7	25.2	5.2	20.8	26.1	0		9	-1.1	16.9	6.4	25.3	27.1	0		9	17.2	51.8	2.7	33.8	34.7	0
10	8.2	24.3	7.8	30.4	32.2	0		10	4.8	26.8	6.6	22.6	28.0	0		10	5.9	22.3	4.6	24.6	26.4	0		10	32.5	67.6	4.6	33.4	48.2	0
11	2.1	21.9	3.7	27.9	31.3	0		11	3.6	39.2	8.2	20.3	28.9	0.01		11	13.8	53.8	5.8	25.3	30.6	0.01		11	31.6	74.7	2.8	36.7	58.6	0
12	1.0	44.8	6.4	25.9	31.5	0		12	1.6	34.3	3.6	17.2	28.8	0		12	26.2	45.5	5.3	29.7	31.5	0		12	36.1	73.0	2.9	41.4	61.7	0
13	8.1	22.3	5.5	27.7	30.9	0		13	9.9	50.7	2.3	20.3	30.7	0		13	30.9	46.2	4.6	31.5	32.0	0		13	41.2	77.9	5.6	44.8	61.2	0
14	5.0	25.7	6.3	26.1	30.6	0		14	26.1	33.4	8.2	28.4	31.3	0.11		14	31.6	55.9	5.2	31.8	34.3	0		14	55.6	86.7	9.4	51.1	66.7	0
15	0.7	21.7	3.4	23.5	29.5	0		15	10.8	26.4	8.8	30.9	31.3	0		15	36.5	74.8	5.7	32.0	45.1	0		15	61.3	82.0	8.0	56.8	70.2	0.02
16	8.8	30.0	7.2	26.4	30.2	0		16	0.1	25.7	3.4	29.7	30.9	0.03		16	45.5	75.0	4.6	35.6	52.0	0		16	41.5	69.8	7.3	53.2	64.4	0.68
17	-2.2	18.0	6.7	23.5	28.8	0		17	0.5	31.6	3.9	28.8	29.7	0		17	38.8	75.4	2.6	37.0	54.9	0		17	38.7	48.0	6.4	48.6	53.8	0
18	5.0	21.6	7.2	24.4	28.9	0		18	20.8	44.8	5.0	29.1	31.1	0		18	45.7	62.4	8.6	42.4	50.2	0		18	40.8	51.1	6.6	47.1	50.4	0.25
19	2.7	34.9	5.6	23.5	29.1	0		19	14.5	40.6	4.9	30.4	31.1	0		19	37.4	45.9	9.6	37.8	44.1	0.36		19	47.5	54.7	4.2	48.4	52.7	0.48
20	13.3	19.8	4.8	25.7	27.7	0		20	32.5	50.5	7.5	30.2	31.6	0		20	33.3	43.9	5.9	36.1	41.0	0		20	44.1	50.2	5.1	48.0	51.4	0
21	1.2	16.0	4.3	21.9	28.4	0		21	29.5	50.4	6.4	30.9	32.0	0		21	31.1	45.9	5.9	33.6	40.1	0		21	38.7	62.4	8.1	46.8	57.7	0
22	-3.1	12.2	8.7	19.9	25.9	0		22	18.9	29.5	9.4	32.0	32.0	0		22	30.4	60.1	3.3	34.0	49.8	0		22	31.3	69.4	1.6	42.4	65.7	0
23	-9.4	10.2	5.2	16.3	24.3	0		23	7.3	19.8	8.0	28.8	32.0	0		23	34.9	73.8	6.8	36.1	51.4	0		23	54.5	67.5	6.3	54.9	62.6	0
24	0.3	19.9	6.9	18.9	23.7	0		24	-3.5	9.7	6.6	24.3	28.8	0		24	43.3	65.3	5.7	44.2	55.9	0		24	46.0	54.7	7.3	49.8	54.9	0.33
25	6.1	26.2	6.3	19.9	26.6	0		25	-8.0	14.0	2.6	21.0	25.0	0		25	32.0	61.3	3.6	40.5	54.9	0		25	45.3	71.2	6.4	47.1	62.8	0
26	-6.9	11.5	5.9	23.4	25.5	0		26	-2.7	27.7	2.4	19.8	28.0	0		26	32.4	57.6	3.3	40.8	51.3	0.03		26	59.2	74.3	5.8	58.3	68.0	0
27	6.1	29.3	7.0	23.4	25.9	0		27	4.3	38.7	1.1	20.8	30.6	0		27	37.9	54.0	6.1	44.4	47.3	0.26		27	49.3	76.6	5.2	52.3	67.8	0
28	24.6	33.6	5.6	25.9	28.0	0.13		28	15.3	40.8	1.4	25.3	31.3	0		28	32.0	40.1	10.2	37.4	44.6	0.05		28	50.5	72.5	4.7	55.8	70.0	0.05
29	8.8	26.6	4.0	26.8	28.2	0										29	24.6	43.3	6.9	35.4	44.1	0		29	46.2	60.1	5.1	53.1	60.1	0
30	18.5	38.5	5.5	27.1	29.5	0.02										30	20.7	50.2	2.5	34.7	48.2	0		30	48.6	57.4	6.0	51.3	56.8	1.25
31	33.3	37.2	5.3	29.5	31.3	0.01										31	24.8	73.9	5.1	36.0	49.8	0								

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Minimum air temperature (Air min), maximum air temperature (Air max), and soil temperature at 4in. (Soil4 min and max) measured in degrees Fahrenheit (°F). Average wind speed (Wind avg) measured in mph. Rain measured in inches.

May							June							July							August						
Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.	Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.	Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.	Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.
1	47.5	66.2	5.4	51.8	63.0	0	1	56.3	75.9	3.3	66.6	80.4	0	1	59.7	86.5	1.5	71.6	90.9	0	1	62.8	85.5	1.9	75.9	98.2	0
2	51.1	67.1	3.4	53.6	67.6	0	2	51.1	60.8	5.2	58.8	71.2	0.42	2	66.6	89.1	3.1	75.4	94.6	0	2	58.6	82.9	1.8	75.7	99.3	0
3	48.9	67.8	5.0	54.1	67.1	0.05	3	50.7	66.2	2.3	57.2	68.2	0	3	71.8	99.3	3.0	78.6	101.3	0	3	58.3	82.6	2.0	76.1	92.5	0.01
4	47.3	56.5	8.3	52.2	58.5	1.19	4	52.7	75.9	0.8	59.9	75.6	0	4	70.9	88.9	3.6	82.4	90.7	0	4	55.4	84.0	1.5	73.0	95.7	0
5	46.6	59.7	4.7	51.8	57.9	0	5	49.5	75.7	3.4	60.1	78.3	0	5	63.9	85.8	2.3	74.1	91.2	1.48	5	62.6	72.1	1.6	74.3	83.7	0.25
6	42.8	70.3	2.1	49.6	68.4	0.24	6	55.4	70.9	3.0	64.9	73.6	0.41	6	66.0	86.2	3.9	73.6	88.9	0.21	6	63.7	83.3	2.2	71.6	88.2	0
7	50.0	67.8	4.1	54.9	69.1	0.16	7	53.4	72.1	2.4	61.2	73.8	0.09	7	71.4	90.1	3.9	77.4	91.2	0	7	61.0	85.1	2.6	71.4	95.5	0
8	46.2	55.8	5.8	54.3	59.9	0.53	8	53.4	72.1	4.8	60.8	72.5	0.23	8	61.5	74.8	4.8	72.3	81.7	0.36	8	61.3	84.9	1.8	74.1	96.6	0
9	51.4	71.1	5.4	55.0	69.8	0.02	9	51.6	79.3	2.3	61.0	79.9	0	9	66.0	82.9	3.3	71.4	82.0	1.39	9	57.0	85.5	1.5	73.8	97.0	0
10	44.4	64.4	5.1	54.3	61.0	0.09	10	61.5	80.2	4.9	66.9	78.1	0.09	10	62.4	76.8	4.1	69.8	80.4	0	10	59.9	86.5	1.1	76.1	96.1	0.16
11	43.3	56.5	11.5	49.8	54.1	0	11	54.5	79.2	2.5	63.7	79.9	0	11	59.4	81.9	3.8	67.3	87.8	0	11	61.9	85.3	2.3	73.2	93.7	0
12	44.1	68.7	5.2	47.5	66.9	0	12	60.8	76.8	2.8	67.3	79.7	0	12	57.7	83.1	1.4	69.3	91.9	0	12	59.5	79.5	2.8	73.4	90.3	0
13	56.1	71.6	5.2	61.3	69.4	0.83	13	59.9	86.7	3.7	68.2	88.7	0	13	58.8	83.3	1.4	72.0	96.1	0	13	61.7	82.4	2.7	73.4	94.6	0
14	53.4	75.6	2.9	58.1	73.6	0.07	14	61.2	88.2	2.6	70.2	91.9	0	14	65.3	86.5	3.9	75.2	93.9	0.04	14	63.3	86.5	1.8	75.9	96.4	0
15	52.5	66.7	2.7	58.5	66.9	0	15	64.8	89.8	1.6	73.6	94.6	0	15	64.0	85.3	2.2	76.3	93.7	0.11	15	66.4	90.5	2.1	78.3	101.7	0
16	46.9	70.0	3.1	54.1	68.9	0	16	60.4	90.3	0.9	75.0	97.9	0	16	59.7	84.4	2.0	73.4	93.7	0	16	65.3	98.1	0.6	80.4	105.1	0
17	46.9	73.6	3.5	55.0	73.9	0	17	59.7	89.8	1.6	76.6	93.0	0.01	17	67.6	92.5	2.1	74.7	99.3	0	17	66.7	94.8	2.9	82.0	104.5	0
18	55.0	76.6	4.3	59.5	74.1	0	18	65.1	86.5	3.2	75.2	85.1	0.39	18	66.7	79.2	5.5	80.8	91.6	0	18	73.6	93.7	3.7	84.4	102.7	0
19	51.3	72.5	5.2	60.3	69.6	0.01	19	61.9	79.9	5.0	68.7	86.5	0	19	59.4	82.4	2.3	74.1	96.1	0	19	72.0	89.2	2.7	84.4	101.7	0
20	42.8	61.9	6.1	54.0	72.7	0	20	51.3	80.1	2.8	66.6	89.8	0	20	68.2	85.1	3.0	77.9	86.7	0.02	20	73.2	94.8	3.9	83.3	97.0	0.14
21	39.4	66.7	1.9	54.1	73.9	0	21	57.7	82.6	4.1	69.6	88.7	0	21	64.2	80.2	3.7	74.8	93.4	0	21	64.2	87.3	4.1	81.1	99.7	0
22	45.0	69.6	2.7	56.5	71.1	0.05	22	63.0	85.6	5.1	72.5	87.8	0	22	56.5	75.9	4.3	72.9	91.2	0	22	58.3	83.5	2.4	76.3	97.2	0
23	51.1	69.1	2.7	59.5	75.4	0.02	23	70.5	88.9	4.8	76.1	92.8	0	23	51.4	80.2	1.7	70.3	96.1	0	23	61.2	85.5	2.9	76.5	96.8	0
24	53.8	66.2	1.9	61.5	66.6	0	24	66.9	92.3	5.3	77.0	92.8	0.06	24	55.0	81.0	3.2	73.0	93.7	0	24	64.9	98.4	3.7	77.7	100.9	0
25	46.4	79.3	1.4	56.1	78.8	0	25	61.0	81.7	3.6	71.1	85.5	1.94	25	63.5	89.8	4.9	75.2	97.2	0	25	66.6	99.3	2.8	81.5	102.9	0
26	48.4	81.3	1.3	61.0	83.7	0	26	53.8	73.4	4.4	65.3	76.8	0	26	75.4	93.6	6.1	80.2	99.9	0	26	69.6	94.6	2.5	81.3	96.6	0.24
27	47.8	84.7	1.7	63.0	85.6	0	27	56.8	84.7	3.7	64.0	82.8	0.07	27	70.3	83.3	3.3	79.5	91.2	0.37	27	58.8	92.1	2.7	75.7	99.0	0
28	58.6	82.2	6.9	69.3	83.8	0	28	60.4	82.4	3.4	68.2	84.7	0.33	28	64.9	83.8	2.8	74.8	92.5	0	28	70.0	88.2	4.9	80.1	95.2	0
29	47.3	80.6	1.4	65.1	83.5	0	29	60.1	83.1	1.5	69.6	82.6	0	29	59.9	86.5	0.9	73.0	98.1	0	29	61.5	86.2	4.3	77.5	97.2	0
30	59.0	89.1	7.3	67.6	84.0	0.13	30	56.1	87.3	0.9	68.0	88.9	0	30	65.7	84.9	3.5	77.4	93.2	0.06	30	57.4	74.7	5.3	75.0	87.4	0
31	53.4	74.1	8.4	65.3	84.6	0								31	63.5	85.1	3.1	73.8	94.3	0	31	57.7	67.8	3.7	73.6	79.3	0

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Minimum air temperature (Air min), maximum air temperature (Air max), and soil temperature at 4in. (Soil4 min and max) measured in degrees Fahrenheit (°F). Average wind speed (Wind avg) measured in mph. Rain measured in inches.

September							October							November							December						
Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.	Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.	Day	Air Min	Air Max	Wind Avg	Soil4 min	Soil4 max	Rain in.	Day	Air min	Air max	Wind avg	Soil4 min	Soil4 max	Rain in.
1	50.4	79.5	2.7	67.5	88.3	0	1	28.6	55.6	3.7	43.2	61.7	0	1	31.5	39.0	2.6	40.1	44.6	0.02	1	25.2	46.4	3.7	31.6	32.0	0
2	49.8	84.0	2.1	68.4	91.0	0	2	23.5	60.1	2.8	41.4	61.7	0	2	37.0	42.8	2.7	41.7	44.4	0.16	2	29.5	37.6	3.9	32.0	32.5	0
3	54.7	79.2	3.4	72.5	90.5	0	3	45.9	70.7	6.2	51.1	66.4	0	3	35.4	42.6	7.1	40.3	43.3	1.95	3	26.4	35.1	1.0	32.5	33.1	0.02
4	45.5	81.3	1.4	67.8	90.0	0	4	36.7	78.6	2.8	49.6	69.1	0	4	32.9	45.3	4.2	40.3	46.0	0.79	4	27.3	34.7	0.8	33.1	33.4	0
5	45.1	86.2	2.5	67.5	89.2	0	5	45.0	78.8	2.9	54.1	72.5	0	5	28.0	33.1	4.3	36.0	40.3	0	5	22.5	32.5	10.8	33.4	33.4	0
6	57.6	88.7	2.7	71.2	91.2	0	6	46.9	84.0	4.5	55.9	74.8	0	6	19.0	39.6	2.2	33.8	41.0	0	6	22.8	29.7	3.5	33.4	33.6	0
7	54.3	90.7	0.8	72.3	93.6	0	7	53.1	81.5	5.4	59.2	76.3	0	7	16.5	34.9	3.2	33.4	37.0	0	7	26.1	38.1	4.9	33.4	33.6	0.27
8	55.9	86.0	2.3	73.8	92.3	0	8	55.4	80.6	4.4	60.3	76.1	0	8	13.1	33.6	1.8	31.5	33.4	0	8	26.4	43.0	0.8	33.3	33.4	0
9	58.8	84.6	3.9	72.9	89.1	0	9	58.6	80.2	3.1	64.4	78.6	0	9	18.3	46.2	2.8	31.1	32.5	0	9	23.4	35.6	7.6	33.3	33.4	0.06
10	63.7	86.4	4.8	74.1	88.5	0	10	54.9	75.6	4.0	63.9	75.2	0	10	30.2	48.2	3.5	32.5	41.0	0.02	10	8.6	23.4	11.8	33.1	33.3	0
11	66.6	86.9	4.0	75.4	85.8	0.71	11	46.6	69.3	4.3	56.5	68.2	0.25	11	36.3	57.7	1.8	40.3	49.6	0	11	3.9	10.4	3.2	32.0	33.1	0
12	58.8	78.8	1.8	70.2	82.0	0.02	12	39.4	69.6	3.5	50.2	64.8	0	12	29.3	47.1	9.0	36.0	42.8	0	12	7.5	20.1	1.1	30.6	32.0	0
13	58.5	65.8	2.5	65.8	70.9	0.03	13	45.0	67.3	2.9	50.5	61.5	0.23	13	22.6	43.2	4.8	33.6	39.9	0	13	8.6	26.6	2.6	30.0	31.1	0
14	51.4	73.0	2.4	60.4	73.2	0	14	39.7	65.8	2.7	50.9	62.2	0	14	29.8	49.3	4.5	33.8	40.8	0	14	24.4	28.4	5.1	31.1	31.5	0
15	44.4	79.5	1.9	57.9	78.1	0	15	33.3	58.8	1.7	45.3	56.8	0	15	36.7	47.1	3.4	36.5	43.3	0	15	28.2	36.5	4.1	31.3	31.6	0.07
16	54.7	82.8	5.0	62.2	81.7	0	16	31.5	49.3	2.7	44.2	50.7	0	16	39.9	55.0	1.9	41.7	51.3	0	16	16.3	30.7	10.9	30.7	31.6	0
17	62.4	83.3	6.2	67.3	83.1	0	17	29.1	61.5	4.4	40.3	55.0	0	17	39.2	54.3	5.6	40.5	48.7	0.3	17	11.3	35.1	1.6	29.7	31.3	0.01
18	49.5	73.9	4.5	61.5	75.4	0.36	18	44.2	83.8	2.8	46.0	66.4	0	18	35.6	56.1	4.3	41.4	52.9	0.14	18	27.3	36.3	8.9	31.3	31.6	0.01
19	39.9	67.8	3.0	53.6	68.5	0	19	39.7	86.4	2.2	49.8	70.0	0	19	35.4	61.9	5.0	37.6	50.2	0	19	10.4	29.3	6.2	29.7	31.3	0
20	40.5	72.5	2.3	52.5	68.5	0	20	52.5	88.9	4.4	55.4	72.1	0	20	36.5	69.4	8.8	41.5	52.0	0	20	14.0	39.9	5.2	29.7	31.1	0
21	50.2	58.5	1.9	56.7	61.2	1.46	21	45.0	77.5	2.4	54.9	68.2	0	21	30.7	42.6	8.5	36.9	41.5	0	21	35.8	43.7	6.5	30.9	31.6	0
22	45.5	66.0	3.0	55.6	66.0	0	22	36.0	75.6	3.0	50.5	67.3	0	22	33.1	37.4	6.5	37.0	38.7	0.04	22	29.1	39.9	2.5	31.6	31.8	0
23	38.1	75.4	3.9	49.8	64.0	0	23	39.6	65.7	3.5	51.1	66.7	0	23	17.8	35.8	8.1	33.4	38.3	0.08	23	16.3	32.4	6.1	30.9	31.8	0
24	44.2	69.1	4.4	55.9	68.0	0	24	37.6	57.0	2.6	50.5	56.5	0.01	24	12.4	28.6	6.5	30.7	33.4	0	24	8.8	36.1	0.3	28.8	30.9	0
25	35.2	63.1	2.5	49.5	68.9	0	25	30.6	54.0	3.9	43.2	56.7	0	25	24.8	45.9	4.1	30.6	31.8	0	25	16.3	40.8	3.0	28.0	30.9	0
26	48.2	66.2	3.5	53.8	60.6	0.05	26	25.0	41.4	3.9	42.1	50.7	0	26	19.2	40.1	1.6	31.1	31.8	0	26	32.4	43.9	4.8	30.6	31.5	0
27	42.8	60.3	4.7	49.1	59.5	0	27	25.5	51.1	4.6	40.3	53.8	0.12	27	21.4	41.5	4.0	31.5	32.0	0	27	40.8	56.7	6.2	31.5	33.4	0.21
28	33.8	60.1	4.0	48.4	62.1	0	28	38.3	49.6	9.1	42.1	47.7	0	28	14.5	30.7	5.9	30.2	32.0	0	28	29.7	43.7	3.7	31.6	34.5	0
29	29.8	64.6	3.1	44.8	64.6	0	29	29.8	47.7	4.8	39.0	46.8	0	29	14.4	48.9	4.4	28.4	31.8	0	29	18.3	31.8	3.6	31.8	32.0	0
30	30.0	63.3	2.1	45.5	60.4	0	30	36.7	64.8	5.9	40.1	56.8	0	30	24.8	64.0	3.4	31.3	32.4	0	30	16.0	48.7	3.7	30.6	31.8	0
							31	33.8	47.8	6.1	43.7	52.2	0								31	18.3	34.0	2.0	30.7	31.8	0

