

**Morrisville State College - School of Agriculture and Natural Resources**  
**Weather Data from the Fully-automated Weather Station at the Free-stall Dairy Complex**  
**Daily Summaries for the Month of July 2009**

8/5/2009 11:34

Date	Day of Week	T <sub>avg.</sub> (°F)	T <sub>max.</sub> (°F)	Time of T <sub>max.</sub>	T <sub>min.</sub> (°F)	Time of T <sub>min.</sub>	RH <sub>avg.</sub> (%)	RH <sub>max.</sub> (%)	Time of RH <sub>max.</sub>	RH <sub>min.</sub> (%)	Time of RH <sub>min.</sub>	Wind <sub>avg.</sub> (mph)	Wind <sub>max.</sub> (mph)	Time of Wind <sub>max.</sub>	Solar Rad <sub>avg.</sub> (W/m <sup>2</sup> )	RainFall (in)	GDD (Base T=50°F)	Cum. GDD	ET <sub>0</sub> (in)
July 1, 2009	Wednesday	63.3	75.5	4:30 PM	53.4	3:37 AM	72.7	100.0	6:21 AM	45.4	4:30 PM	4.4	13.9	1:20 PM	227.80	0.00	13.28	13	0.12
July 2, 2009	Thursday	61.0	68.8	1:37 PM	56.7	11:26 PM	85.2	100.0	11:35 PM	70.3	1:37 PM	3.4	14.6	2:49 PM	108.10	0.44	11.03	24	0.05
July 3, 2009	Friday	61.6	66.5	2:39 PM	57.4	12:03 AM	83.9	100.0	12:13 AM	67.8	2:39 PM	6.5	19.6	12:48 PM	181.60	0.01	11.57	36	0.09
July 4, 2009	Saturday	58.2	63.4	5:03 PM	51.2	11:42 PM	77.7	96.8	4:54 AM	58.6	5:24 PM	9.2	26.8	2:30 PM	187.40	0.01	8.15	44	0.10
July 5, 2009	Sunday	58.7	69.3	4:20 PM	48.1	3:18 AM	68.0	99.7	11:58 PM	36.2	12:33 PM	5.8	17.5	11:35 AM	316.00	0.00	8.75	53	0.17
July 6, 2009	Monday	58.8	73.3	2:11 PM	45.3	4:35 AM	66.1	100.0	12:28 AM	32.3	2:49 PM	4.2	21.4	4:00 PM	263.80	0.00	8.82	62	0.15
July 7, 2009	Tuesday	57.4	69.7	11:34 AM	50.2	2:33 AM	78.0	100.0	5:23 AM	56.0	11:34 AM	5.0	20.7	3:15 PM	181.70	0.20	7.43	69	0.09
July 8, 2009	Wednesday	56.3	63.8	2:14 PM	50.1	11:15 PM	81.2	100.0	11:57 PM	62.4	2:05 PM	4.6	16.0	1:52 PM	168.30	0.04	6.34	75	0.08
July 9, 2009	Thursday	58.6	71.2	5:01 PM	47.2	4:24 AM	73.5	100.0	2:43 AM	46.9	4:22 PM	3.0	11.0	2:10 PM	235.50	0.00	8.60	84	0.12
July 10, 2009	Friday	63.1	76.5	2:04 PM	47.6	4:56 AM	69.8	100.0	7:24 AM	39.6	5:08 PM	4.3	14.6	11:05 AM	292.40	0.00	13.09	97	0.16
July 11, 2009	Saturday	65.0	75.1	11:03 AM	56.2	1:57 AM	81.2	96.8	3:22 PM	65.6	11:08 AM	7.6	22.5	10:38 AM	155.80	0.17	15.05	112	0.09
July 12, 2009	Sunday	57.2	65.1	1:26 PM	46.3	11:57 PM	66.5	98.6	11:59 PM	34.4	10:44 AM	7.6	22.5	2:09 PM	324.10	0.00	7.24	119	0.16
July 13, 2009	Monday	55.7	66.5	1:27 PM	43.0	2:39 AM	67.5	100.0	4:14 AM	35.1	12:09 PM	6.5	27.8	11:55 AM	250.60	0.05	5.72	125	0.14
July 14, 2009	Tuesday	55.5	66.5	2:49 PM	42.4	4:28 AM	74.1	100.0	5:15 AM	48.2	2:20 PM	6.7	25.3	12:40 PM	299.30	0.00	5.53	131	0.15
July 15, 2009	Wednesday	60.4	74.2	3:07 PM	42.2	4:58 AM	67.3	100.0	5:07 AM	34.6	3:07 PM	4.0	15.7	10:15 AM	315.00	0.00	10.44	141	0.18
July 16, 2009	Thursday	65.9	78.7	1:17 PM	55.1	11:27 PM	74.2	100.0	11:35 PM	48.4	1:02 PM	6.2	24.6	12:43 PM	283.10	0.09	15.95	157	0.16
July 17, 2009	Friday	61.9	73.5	10:33 AM	54.2	1:20 AM	69.7	100.0	4:10 AM	39.3	10:28 AM	4.4	13.9	12:53 PM	136.40	0.03	11.92	169	0.08
July 18, 2009	Saturday	62.3	69.3	1:11 PM	53.1	11:24 PM	75.1	100.0	9:40 PM	50.2	2:30 PM	6.8	21.7	11:19 AM	232.50	0.12	12.28	181	0.13
July 19, 2009	Sunday	59.3	67.4	2:30 PM	50.6	5:18 AM	79.2	100.0	11:39 PM	58.4	11:46 AM	5.2	17.1	10:58 AM	187.80	0.00	9.34	191	0.10
July 20, 2009	Monday	61.3	73.1	12:40 PM	49.3	4:30 AM	74.7	100.0	5:13 AM	49.5	12:41 PM	3.6	12.1	11:41 AM	254.70	0.00	11.32	202	0.14
July 21, 2009	Tuesday	61.7	69.8	11:39 AM	55.2	1:25 AM	85.6	100.0	10:51 PM	71.1	11:47 AM	3.3	14.9	3:00 PM	109.10	0.12	11.70	214	0.07
July 22, 2009	Wednesday	64.6	76.6	1:45 PM	52.5	5:04 AM	74.9	100.0	12:00 AM	49.8	1:45 PM	2.8	9.6	3:03 PM	251.60	0.01	14.60	228	0.14
July 23, 2009	Thursday	68.5	77.0	2:44 PM	60.4	1:30 AM	77.4	100.0	12:00 AM	54.8	2:42 PM	7.5	21.0	10:27 AM	216.30	0.00	18.47	247	0.14
July 24, 2009	Friday	63.2	72.7	11:57 AM	55.9	11:43 PM	81.1	100.0	11:59 PM	62.2	11:58 AM	4.6	16.0	5:10 PM	135.10	0.31	13.19	260	0.07
July 25, 2009	Saturday	65.9	78.2	2:49 PM	53.0	5:02 AM	71.5	100.0	12:18 AM	43.0	12:51 PM	5.3	19.2	12:20 PM	287.90	0.12	15.93	276	0.17
July 26, 2009	Sunday	68.4	75.7	2:42 PM	60.5	11:10 PM	79.7	100.0	11:48 PM	59.4	2:29 PM	6.9	22.1	11:53 PM	219.70	0.05	18.43	294	0.13
July 27, 2009	Monday	65.7	74.3	3:00 PM	56.3	12:00 AM	77.1	100.0	11:55 PM	54.3	2:47 PM	6.3	18.9	10:14 AM	238.90	0.14	15.66	310	0.13
July 28, 2009	Tuesday	68.6	82.5	3:19 PM	53.2	4:59 AM	70.5	100.0	7:30 AM	41.0	3:02 PM	5.1	18.2	2:25 PM	279.70	0.00	18.63	328	0.17
July 29, 2009	Wednesday	67.9	77.5	10:59 AM	60.4	2:45 AM	81.8	100.0	11:39 PM	63.5	10:38 AM	3.8	12.8	11:13 AM	147.30	0.53	17.93	346	0.08
July 30, 2009	Thursday	66.4	74.7	4:42 PM	58.9	10:27 PM	73.4	100.0	12:00 AM	46.7	3:31 PM	5.5	20.3	2:33 AM	319.20	0.11	16.40	363	0.17
July 31, 2009	Friday	62.6	67.2	5:12 PM	54.1	11:59 PM	85.6	100.0	9:02 PM	71.2	10:11 AM	3.0	9.6	3:47 AM	101.70	0.77	12.56	375	0.05
<b>Average (if applicable)</b>		<b>62.1</b>	<b>63.4</b>	<b>5:03 PM</b>	<b>42.2</b>	<b>4:58 AM</b>	<b>75.6</b>	<b>96.8</b>	<b>4:54 AM</b>	<b>32.3</b>	<b>2:49 PM</b>	<b>2.8</b>	<b>9.6</b>	<b>3:03 PM</b>	<b>101.70</b>	<b>0.11</b>	<b>12.11</b>		<b>0.12</b>
<b>Minimum (if applicable)</b>		<b>55.5</b>	<b>63.4</b>	<b>5:03 PM</b>	<b>42.2</b>	<b>4:58 AM</b>	<b>66.1</b>	<b>96.8</b>	<b>4:54 AM</b>	<b>32.3</b>	<b>2:49 PM</b>	<b>2.8</b>	<b>9.6</b>	<b>3:03 PM</b>	<b>101.70</b>				
Date When Minimum Occurred		14-Jul	4-Jul		15-Jul		6-Jul	4-Jul		6-Jul		22-Jul	22-Jul		31-Jul				
<b>Maximum (if applicable)</b>		<b>68.6</b>	<b>82.5</b>	<b>3:19 PM</b>	<b>60.5</b>	<b>11:10 PM</b>	<b>85.6</b>	<b>100.0</b>	<b>6:21 AM</b>	<b>71.2</b>	<b>10:11 AM</b>	<b>9.2</b>	<b>27.8</b>	<b>11:55 AM</b>	<b>324.10</b>	<b>0.77</b>	<b>18.63</b>		<b>0.18</b>
Date When Maximum Occurred		28-Jul	28-Jul		26-Jul		31-Jul	1-Jul		31-Jul		4-Jul	13-Jul		12-Jul	31-Jul	28-Jul		15-Jul
<b>Total (if applicable)</b>																<b>3.32</b>	<b>375.4</b>		<b>3.79</b>