

Appendix II - Hancock

Table 1. 2001 soil temperature (4" depth, under bare soil) for the Hancock Agricultural Research Station, Hancock, WI. Temperature scale is Fahrenheit. Data are from the UW Automated Weather Observation Network - Hancock Station

4" Depth				4" Depth				4" Depth				4" Depth				4" Depth			
Date	Mean	Min.	Max.	Date	Mean	Min.	Max.	Date	Mean	Min.	Max.	Date	Mean	Min.	Max.	Date	Mean	Min.	Max.
4/1	34.5	34.4	34.5	5/9	62.7	52.2	73.7	6/16	69.8	64.2	76.4	7/24	80.9	71.5	90.4				
4/2	34.5	34.5	34.5	5/10	65.4	59.0	76.5	6/17	70.3	63.9	76.3	7/25	---	---	---	9/1	68.1	61.4	75.3
4/3	34.5	34.5	34.6	5/11	60.2	54.5	63.6	6/18	69.2	67.3	71.8	7/26	77.0	72.8	81.0	9/2	70.1	64.3	76.4
4/4	34.5	34.5	34.6	5/12	60.7	48.9	74.3	6/19	70.1	67.1	73.9	7/27	76.3	72.4	80.2	9/3	71.4	68.2	76.2
4/5	34.6	34.5	34.6	5/13	63.5	53.8	74.7	6/20	70.1	63.7	75.9	7/28	75.8	73.9	78.0	9/4	69.9	64.4	76.1
4/6	36.3	34.6	38.1	5/14	58.9	55.1	63.3	6/21	70.2	67.0	74.7	7/29	78.3	74.4	83.2	9/5	70.5	65.5	76.1
4/7	41.7	38.1	45.3	5/15	67.2	56.3	79.6	6/22	69.8	66.0	74.7	7/30	79.6	76.2	83.5	9/6	70.4	67.1	73.9
4/8	44.7	41.5	48.7	5/16	71.9	64.0	82.9	6/23	71.2	63.4	81.7	7/31	81.1	77.1	85.6	9/7	70.8	69.4	73.0
4/9	44.2	43.2	46.4	5/17	70.3	62.7	79.3	6/24	72.8	64.2	82.8					9/8	69.7	67.7	72.9
4/10	46.7	42.7	51.5	5/18	72.4	60.9	79.7	6/25	76.1	67.2	85.9	8/1	80.1	76.9	82.7	9/9	64.2	61.5	67.7
4/11	48.4	47.6	50.1	5/19	71.0	60.2	82.3	6/26	78.5	70.7	87.2	8/2	79.2	75.3	85.2	9/10	63.0	58.9	68.3
4/12	48.9	47.0	49.9	5/20	70.9	64.9	78.5	6/27	79.2	71.6	88.2	8/3	80.0	75.8	86.0	9/11	64.4	58.2	71.3
4/13	48.6	44.7	53.1	5/21	63.5	57.1	68.5	6/28	79.9	71.5	89.0	8/4	82.4	75.7	89.4	9/12	66.9	63.0	71.4
4/14	50.9	48.1	54.2	5/22	58.5	52.8	63.9	6/29	79.9	72.6	87.8	8/5	83.7	78.7	89.2	9/13	65.3	62.1	69.7
4/15	50.4	47.7	52.7	5/23	55.8	50.3	62.7	6/30	79.7	74.1	87.7	8/6	84.0	79.6	88.8	9/14	62.9	58.8	67.0
4/16	44.5	42.7	47.7	5/24	56.1	51.7	61.7					8/7	85.9	80.9	91.8	9/15	62.9	60.5	65.9
4/17	43.9	40.8	47.5	5/25	59.2	53.1	68.5	7/1	78.0	71.9	85.4	8/8	86.0	81.5	91.0	9/16	63.2	59.2	67.2
4/18	46.0	41.6	50.8	5/26	59.5	54.4	66.0	7/2	73.5	67.1	80.7	8/9	84.5	81.3	88.2	9/17	62.6	61.1	64.4
4/19	49.3	45.4	53.1	5/27	60.2	52.4	67.9	7/3	76.9	67.8	86.3	8/10	80.5	76.0	84.9	9/18	62.3	60.4	64.9
4/20	52.4	50.5	55.0	5/28	65.0	54.5	77.0	7/4	78.5	70.9	87.4	8/11	79.6	75.1	84.4	9/19	61.3	60.4	62.4
4/21	57.0	54.1	59.7	5/29	66.7	59.3	77.1	7/5	77.2	68.4	86.8	8/12	78.5	74.0	83.9	9/20	62.1	57.3	67.5
4/22	55.2	54.2	57.0	5/30	66.6	57.1	77.0	7/6	74.6	67.7	80.9	8/13	76.4	69.9	83.3	9/21	63.1	60.4	66.8
4/23	56.6	54.0	60.0	5/31	62.8	57.9	68.4	7/7	77.7	71.3	83.5	8/14	75.9	69.3	82.1	9/22	63.1	58.8	68.1
4/24	54.1	51.0	57.2					7/8	80.5	71.2	89.3	8/15	71.5	68.4	76.2	9/23	60.4	55.6	63.4
4/25	56.4	52.4	60.5	6/1	60.3	54.6	69.1	7/9	83.2	73.6	93.0	8/16	69.2	66.4	73.4	9/24	55.2	51.7	59.5
4/26	58.5	55.3	62.3	6/2	55.7	52.7	58.8	7/10	82.9	75.4	91.0	8/17	71.3	64.3	79.0	9/25	54.4	49.4	60.0
4/27	---	---	71.7	6/3	55.2	50.5	59.7	7/11	79.9	71.7	88.1	8/18	70.3	67.9	72.3	9/26	57.4	53.3	62.9
4/28	62.3	52.9	72.7	6/4	57.7	53.3	63.1	7/12	80.5	71.8	89.2	8/19	71.6	65.8	79.0	9/27	57.4	52.4	63.0
4/29	64.4	56.2	73.7	6/5	55.8	52.8	59.4	7/13	81.2	72.1	90.8	8/20	73.4	65.7	81.0	9/28	56.0	54.2	58.3
4/30	66.2	59.0	74.2	6/6	58.7	55.0	63.2	7/14	82.3	73.1	92.3	8/21	71.8	68.7	75.6	9/29	55.5	51.9	60.5
				6/7	62.3	57.0	69.5	7/15	83.2	75.4	91.5	8/23	73.5	70.3	77.9	9/30	56.5	51.8	61.7
5/1	66.6	60.4	74.1	6/8	66.4	57.1	76.9	7/16	83.3	75.9	91.3	8/24	71.4	68.8	75.1				
5/2	62.6	59.8	65.7	6/9	67.6	60.4	75.8	7/17	81.9	74.1	90.4	8/25	70.4	68.2	71.9	10/1	59.6	55.9	64.6
5/3	58.6	55.4	60.3	6/10	68.0	64.7	73.5	7/18	80.9	73.1	90.1	8/26	72.1	65.1	79.9				
5/4	59.9	53.0	69.6	6/11	71.6	61.8	82.7	7/19	83.1	75.6	92.2	8/27	72.9	68.9	78.4				
5/5	56.9	53.8	61.0	6/12	72.2	66.3	78.4	7/20	85.9	75.5	97.4	8/28	72.5	64.8	81.1				
5/6	58.4	52.4	64.0	6/13	72.6	68.4	77.1	7/21	88.0	78.6	98.8	8/29	72.6	67.7	77.8				
5/7	60.4	55.2	68.7	6/14	71.9	69.7	75.8	7/22	80.4	75.3	86.1	8/30	72.9	68.7	77.7				
5/8	60.9	50.8	72.8	6/15	69.2	66.7	72.2	7/23	78.6	73.2	86.8	8/31	69.7	65.7	75.4				

Table 2. Weather data collected at the Hancock Agricultural Research Station, Hancock, WI - 2001. Temperature scale is Fahrenheit. Data in and outside the potato canopy were recorded by a weather station located adjacent to our potato trials.

Date	Rainfall/ Irrig. Inches.	Data Recorded In the Potato Canopy										Data Recorded Outside the Potato Canopy									
		Air Temperature (F)		Hours >90% RH	Max. RH Temp.	Min. RH Temp.	Sev- erity Values	Sum of Sev- erity Values	P- Days	Sum of P-Days	Air Temperature (F)		Hours >90% RH	Max RH Temp	Min RH Temp	Sev- erity Values	Sum of Sev- erity Values	P-Days	Sum of P-Days		
		Max. Temp	Min. Temp								Max. Temp	Min. Temp									
5/1	0.2	78.6	57.7																		
5/2	1.7	66.7	57.0																		
5/3	1.2	59.0	50.5																		
5/4	0.2	62.6	46.5																		
5/5	0.1	56.9	47.3																		
5/6	0.0	65.1	49.9																		
5/7	0.2	66.6	46.5																		
5/8	0.0	71.2	45.5																		
5/9	0.2	76.5	63.0							75.9	63.0										
5/10	0.4	81.3	55.7							79.7	55.3	21	57.2	50.0							
5/11	0.1	56.4	46.6							55.8	46.4										
5/12	0.0	64.8	37.0							63.5	36.9										
5/13	0.0	72.7	46.0							71.2	45.7										
5/14	0.7	63.1	48.4							62.1	48.2	16	61.9	53.2							
5/15	0.0	89.2	53.6							87.9	53.2										
5/16	0.0	82.7	60.0							81.0	59.6										
5/17	0.0	85.9	54.0							83.8	53.6										
5/18	0.0	76.7	49.1							75.0	48.7										
5/19	0.0	80.3	45.0							78.9	44.7										
5/20	0.0	80.1	53.0							78.4	52.7										
5/21	0.5	63.9	49.7	14	63.9	52.7				63.2	49.4	14	63.2	52.2							
5/22	0.0	57.4	40.9	14	44.6	40.0	0	0.0	3.1	3.1	56.4	40.4	14	44.0	39.4	0	0	2.7	2.7		
5/23	0.1	53.6	40.0	13	49.4	43.2	0	0.0	1.8	4.9	52.5	39.4	13	48.8	42.9	0	0	1.5	4.2		
5/24	0.4	54.6	43.2	16	53.5	46.6	1	1.0	2.8	7.7	53.7	42.9	16	52.6	46.1	1	1	2.5	6.8		
5/25	0.1	62.3	46.6	11	51.9	45.9	0	1.0	5.6	13.3	61.3	46.1	11	51.4	45.6	0	1	5.2	12.0		
5/26	0.1	59.9	45.9	12	51.8	44.3	0	1.0	4.9	18.2	59.1	45.6	12	51.3	44.0	0	1	4.6	16.6		
5/27	0.0	65.6	44.3	10	53.9	45.0	0	1.0	5.4	23.6	64.2	44.0	10	53.4	44.7	0	1	5.2	21.7		
5/28	0.0	74.5	45.0				0	1.0	6.6	30.2	72.6	44.7				0	1	6.4	28.1		
5/29	0.0	68.7	47.1				0	1.0	6.7	36.9	67.4	46.6				0	1	6.4	34.5		
5/30	0.0	68.3	39.9				0	1.0	5.1	41.9	66.7	39.4				0	1	4.7	39.2		
5/31	0.1	62.1	41.3				0	1.0	4.2	46.2	60.5	40.8				0	1	3.8	43.0		
6/1	0.5	64.5	44.8	21	54.8	44.2	2	3.0	5.4	51.5	63.6	44.3	21	54.3	43.7	2	3	5.1	48.1		
6/2	0.3	53.4	44.2				0	3.0	2.7	54.3	52.9	43.7				0	3	2.5	50.5		
6/3	0.0	57.4	43.4				0	3.0	3.6	57.9	56.5	43.1				0	3	3.3	53.9		
6/4	0.0	58.2	46.3	19	57.0	45.5	2	5.0	4.7	62.5	57.0	46.1	19	56.4	45.1	2	5	4.3	58.1		
6/5	0.5	57.0	45.5	18	58.2	51.7	2	7.0	4.1	66.6	56.4	45.1	18	57.3	51.3	2	7	3.8	61.9		
6/6	0.0	64.2	51.2	14	63.3	51.2	1	8.0	7.2	73.8	63.1	51.1	14	62.3	51.0	1	8	7.0	68.9		
6/7	0.0	70.0	51.2	12	62.2	49.5	0	8.0	7.9	81.7	68.4	51.0	12	61.7	49.2	0	8	7.7	76.6		
6/8	0.0	79.2	49.5				0	8.0	7.7	89.3	77.0	49.2				0	8	7.7	84.3		
6/9	0.0	83.1	52.8				0	8.0	7.8	97.1	81.4	52.6				0	8	8.0	92.3		
6/10	0.0	77.8	62.0	10	74.7	54.9	0	8.0	9.4	106.5	76.4	61.5	11	69.6	54.6	1	9	9.5	101.8		
6/11	0.9	88.0	54.9				0	8.0	7.3	113.8	85.9	54.6	11	66.9	62.0	1	10	7.5	109.3		
6/12	0.8	77.3	60.8	15	76.0	63.4	2	10.0	9.4	123.2	80.4	62.0				0	10	9.0	118.3		
6/13	0.0	86.6	63.4				0	10.0	7.6	130.7	86.7	66.6				0	10	7.2	125.5		
6/14	0.3	84.6	63.1	23	72.8	61.1	5	15.0	8.1	138.8	81.9	65.7	17	69.7	62.4	3	13	8.7	134.2		
6/15	0.1	69.5	54.6				0	15.0	8.5	147.3	71.2	58.7				0	13	9.3	143.4		
6/16	0.0	76.1	50.4	11	58.7	46.8	0	15.0	7.9	155.2	78.2	53.3				0	13	8.4	151.9		
6/17	0.8	80.2	46.8	19	74.8	61.1	4	19.0	7.0	162.2	82.5	50.7	16	71.7	60.8	3	16	7.6	159.5		
6/18	0.5	80.9	61.4				0	19.0	8.9	171.1	79.7	60.8				0	16	9.1	168.5		
6/19	0.0	77.2	55.8				0	19.0	8.9	180.0	77.5	56.7				0	16	9.0	177.5		
6/20	0.0	82.2	48.8				0	19.0	7.3	187.3	79.4	48.8				0	16	7.5	185.0		
6/21	0.4	76.4	55.9	13	62.0	52.2	1	20.0	8.9	196.2	73.3	55.9	13	61.5	51.7	1	17	8.9	193.9		
6/22	0.0	73.6	51.8	11	59.3	47.3	0	20.0	8.2	204.4	71.2	51.5	10	57.7	47.8	0	17	8.0	202.0		
6/23	0.3	78.0	47.3				0	20.0	7.2	211.6	74.8	47.8				0	17	7.3	209.3		
6/24	0.0	81.9	52.4				0	20.0	8.0	219.5	78.6	52.5				0	17	8.3	217.5		
6/25	0.0	91.6	60.3				0	20.0	6.8	226.3	86.5	60.3				0	17	7.6	225.2		
6/26	0.2	89.0	66.0				0	20.0	6.8	233.2	85.3	66.2				0	17	7.7	232.8		
6/27	0.0	93.8	63.3	10	74.6	60.9	0	20.0	6.0	239.2	87.9	63.1				0	17	7.4	240.2		
6/28	0.0	98.0	60.9				0	20.0	5.1	244.3	87.4	60.6				0	17	7.5	247.7		
6/29	0.6	87.4	63.4				0	20.0	7.4	251.7	84.6	64.0				0	17	8.0	255.7		
6/30	0.4	87.0	65.7				0	20.0	7.3	259.0	85.9	67.0				0	17	7.4	263.1		
7/1	0.0	72.1	48.4				0	20.0	7.4	266.4	69.8	51.2				0	17	7.9	271.0		
7/2	0.0	75.0	47.4				0	20.0	7.2	273.6	70.6	47.0				0	17	6.9	277.8		

Appendix II, Table 2, continued.

Date	Rainfall/ Irrig. Inches.	Data Recorded in the Potato Canopy										Data Recorded Outside the Potato Canopy							
		Air Temperature (F)		Hours >90% RH	Max. RH Temp.	Min. RH Temp.	Sev- erity Values	Sum of Sev- erity Values	P- Days	Sum of P- Days	Air Temperature (F)		Hours >90% RH	Max RH Temp	Min RH Temp	Sev- erity Values	Sum of Sev- erity Values	P- Days	Sum of P- Days
		Max. Temp	Min. Temp								Max. Temp	Min. Temp							
7/3	0.1	91.1	54.9				0	20.0	6.9	280.5	83.2	55.0				0	17	8.1	285.9
7/4	0.3	80.9	56.0				0	20.0	8.5	289.0	78.7	58.0				0	17	9.0	294.9
7/5	0.0	79.6	48.2	10	62.4	45.1	0	20.0	7.4	296.4	73.3	48.9				0	17	7.5	302.4
7/6	0.4	77.0	45.1				0	20.0	6.7	303.0	75.7	44.8				0	17	6.5	308.9
7/7	0.7	87.2	63.0	11	72.3	59.1	1	21.0	7.5	310.5	83.6	63.2	10	71.4	58.7	0	17	8.3	317.3
7/8	0.0	90.2	59.1	12	77.0	58.4	1	22.0	7.1	317.6	89.6	58.7				0	17	7.2	324.5
7/9	0.0	95.4	58.4				0	22.0	6.1	323.7	92.4	58.6				0	17	6.7	331.2
7/10	0.0	91.1	56.3				0	22.0	6.9	330.6	85.8	57.8				0	17	7.7	338.9
7/11	0.5	80.3	48.8	11	66.3	52.5	0	22.0	7.4	338.1	77.3	48.5				0	17	7.5	346.4
7/12	0.6	86.8	52.5				0	22.0	7.2	345.3	81.2	52.5				0	17	8.0	354.4
7/13	0.0	84.5	50.9	11	66.5	51.9	0	22.0	7.3	352.6	82.8	51.3				0	17	7.7	362.1
7/14	0.0	92.2	51.9	11	73.5	58.0	1	23.0	6.6	359.2	86.7	52.1				0	17	7.2	369.2
7/15	0.4	87.7	58.0				0	23.0	7.5	366.6	84.8	58.6				0	17	8.0	377.2
7/16	0.0	90.5	59.0				0	23.0	7.0	373.7	85.9	59.6				0	17	7.7	384.9
7/17	0.9	87.6	63.8	14	81.6	64.5	2	25.0	7.4	381.0	85.6	63.3	13	75.5	64.9	2	19	7.8	392.7
7/18	0.3	88.5	64.5	14	81.1	70.0	2	27.0	7.1	388.1	86.7	64.9	12	77.0	69.8	1	20	7.4	400.1
7/19	0.3	88.0	69.3	13	81.3	66.2	2	29.0	6.5	394.6	86.1	69.8	13	78.2	66.7	2	22	6.9	407.0
7/20	0.0	92.1	66.2	14	83.8	67.9	2	31.0	6.0	400.6	89.4	66.7	12	78.1	68.5	1	23	6.6	413.6
7/21	0.4	93.4	67.9	13	83.6	68.9	2	33.0	5.3	405.9	89.4	68.5	12	83.3	69.2	1	24	6.3	420.0
7/22	1.0	88.8	68.1	27	84.2	67.4	6	39.0	6.5	412.5	86.1	67.8	16	78.1	68.4	3	27	7.2	427.1
7/23	0.0	89.8	67.4	12	78.4	61.8	1	40.0	6.6	418.9	84.5	68.4	10	73.9	64.0	0	27	7.6	434.8
7/24	0.0	87.6	61.8				0	40.0	7.5	426.3	84.2	64.0				0	27	8.1	442.9
7/25	0.0	80.2	59.7				0	40.0	8.9	435.3	76.1	60.4				0	27	9.4	452.3
7/26	0.0	84.1	51.1				0	40.0	7.4	442.7	77.5	52.1				0	27	8.2	460.6
7/27	0.4	81.2	50.8				0	40.0	7.8	450.5	76.2	52.6				0	27	8.4	468.9
7/28	0.3	84.8	61.1	15	77.3	63.9	2	42.0	8.0	458.5	79.3	61.1	13	73.2	64.6	2	29	9.1	478.1
7/29	0.0	89.4	63.9	13	75.3	64.4	2	44.0	7.0	465.5	81.4	64.6	14	75.5	64.1	2	31	8.8	486.9
7/30	0.0	95.6	64.4	14	83.4	68.1	2	46.0	5.3	470.8	88.4	64.1	13	79.4	68.9	2	33	7.2	494.0
7/31	0.3	99.5	68.1	12	82.2	72.4	1	47.0	4.4	475.2	92.2	68.9	10	77.9	73.3	0	33	5.2	499.2
8/1	0.6	91.2	70.2	23	86.6	69.6	5	52.0	5.4	480.7	87.6	71.0	23	82.4	69.9	5	38	6.3	505.4
8/2	0.1	91.2	66.9	15	78.2	63.0	2	54.0	6.1	486.8	88.2	67.9	14	73.2	64.1	2	40	6.7	512.2
8/3	0.0	91.5	63.0	12	73.2	62.5	1	55.0	6.6	493.4	84.9	64.1	12	74.0	63.3	1	41	8.0	520.1
8/4	0.2	96.1	62.5	12	76.4	67.6	1	56.0	5.5	498.9	87.4	63.3	10	75.7	68.7	0	41	7.4	527.6
8/5	0.0	95.5	67.6	13	82.2	70.5	2	58.0	4.8	503.7	90.5	68.7	10	76.2	71.2	0	41	6.0	533.5
8/6	0.0	96.4	70.5	14	84.8	72.1	2	60.0	4.3	508.0	96.4	70.5	13	83.2	73.8	2	43	4.3	537.9
8/7	0.0	103.7	70.8	11	78.7	70.5	1	61.0	3.6	511.6	103.7	70.8	11	77.8	71.4	1	44	3.6	541.5
8/8	0.2	96.8	70.5	11	79.1	70.8	1	62.0	4.3	515.9	92.1	71.5				0	44	4.8	546.3
8/9	0.0	93.3	62.3				0	62.0	6.3	522.1	89.9	62.3				0	44	7.0	553.3
8/10	0.5	77.6	52.7	12	64.4	52.1	0	62.0	8.4	530.5	75.2	52.2				0	44	8.3	561.6
8/11	0.5	85.0	52.1	12	66.8	52.6	0	62.0	7.4	537.9	78.4	52.7				0	44	8.3	569.9
8/12	0.2	87.5	52.6	14	65.7	51.2	1	63.0	7.2	545.0	83.7	53.1				0	44	7.8	577.6
8/13	0.3	78.4	50.9	13	64.4	45.3	1	64.0	8.0	553.0	75.3	51.1	11	60.4	47.1	0	44	8.1	585.7
8/14	0.3	82.5	45.3	39	67.1	56.4	10	74.0	6.5	559.5	78.7	47.1	37	65.6	56.1	10	54	7.1	592.8
8/15	0.4	64.0	56.4				0	74.0	8.4	567.9	62.7	57.3				0	54	8.4	601.2
8/16	0.1	74.3	56.4	13	64.5	53.4	1	75.0	9.0	576.9	72.0	56.1	11	62.3	53.6	0	54	8.9	610.2
8/17	0.2	81.6	53.4	17	69.6	56.6	3	78.0	8.1	585.0	79.3	53.6	13	64.0	57.5	2	56	8.4	618.5
8/18	0.2	71.8	56.6	16	65.8	57.0	3	81.0	9.0	594.0	70.1	57.5	16	65.1	56.8	3	59	9.1	627.6
8/19	0.4	80.5	52.0	13	67.6	48.9	1	82.0	8.0	602.1	78.4	53.8	12	64.1	49.5	0	59	8.5	636.1
8/20	0.0	85.3	48.9	13	68.8	53.3	2	84.0	6.9	608.9	82.4	49.5				0	59	7.4	643.5
8/21	0.5	79.6	53.3	19	73.9	63.4	4	88.0	8.3	617.2	76.0	54.3	19	75.6	64.3	4	63	8.7	652.2
8/22	1.2	86.5	63.6	16	76.9	62.4	3	91.0	7.6	624.8	80.7	64.5	16	74.7	63.1	3	66	9.0	661.1
8/23	0.1	85.1	62.4	24	83.0	60.7	5	96.0	8.0	632.8	82.8	63.1	23	77.4	60.2	5	71	8.5	669.7
8/24	0.0	77.2	60.7	39	71.6	56.6	10	106.0	9.4	642.1	75.0	60.2	39	70.7	57.0	10	81	9.5	679.1
8/25	0.8	70.9	60.7				0	106.0	9.5	651.6	70.0	60.7				0	81	9.5	688.6
8/26	0.0	85.0	56.6	15	74.7	60.6	2	108.0	7.8	659.5	82.9	57.0	14	72.4	61.7	2	83	8.3	696.9
8/27	0.1	82.0	54.4	12	66.1	47.0	0	108.0	8.2	667.7	80.0	55.3	11	62.8	48.8	0	83	8.6	705.5
8/28	0.0	85.1	47.0	12	64.8	56.3	1	109.0	6.6	674.2	82.3	48.8				0	83	7.3	712.8
8/29	0.0	85.0	56.3				0	109.0	7.8	682.1	80.0	58.0				0	83	8.8	721.6
8/30	0.3	81.4	60.4				0	109.0	8.8	690.8	79.5	60.7	12	63.0	54.7	0	83	9.1	730.7
8/31	0.0	70.4	44.6				0	109.0	6.1	697.0	68.8	46.0	12	55.6	41.8	0	83	6.4	737.1
9/1	0.0	77.8	39.7				0	109.0	5.9	702.9	71.5	41.8				0	83	5.8	742.9
9/2	0.0	83.9	51.0				0	109.0	7.5	710.3	80.0	51.6				0	83	8.0	750.9
9/3	0.7	85.1	50.3				0	109.0	7.1	717.5	82.9	50.1	10	58.7	46.4	0	83	7.5	758.4
9/4	0.0	81.6	45.8	13	65.3	49.4	1	110.0	6.7	724.1	78.1	46.4				0	83	7.0	765.4
9/5	0.0	84.7	49.4	13	67.3	57.1	2	112.0	7.1	731.2	78.6	50.6	13	65.6	57.6	2	85	7.9	773.3
9/6	0.3	86.0	57.1	45	78.8	63.1	12	124.0	7.6	738.8	82.0	57.6	24	77.2	64.2	5	90	8.5	781.8
9/7	1.1	78.8	63.2				0	124.0	9.3	748.1	76.4	63.3	18	73.3	63.0	3	93	9.6	791.3

Appendix II, Table 2, continued.

Date	Rainfall/ Irrig. Inches.	Data Recorded in the Potato Canopy										Data Recorded Outside the Potato Canopy							
		Air Temperature (F)		Hours >90% RH	Max. RH Temp.	Min. RH Temp.	Sev- erity Values	Sum of Sev- erity Values	P- Days	Sum of P-Days	Air Temperature (F)		Hours >90% RH	Max RH Temp	Min RH Temp	Sev- erity Values	Sum of Sev- erity Values	P-Days	Sum of P-Days
		Max. Temp	Min. Temp								Max. Temp	Min. Temp							
9/8	0.9	75.7	56.8	38	64.7	49.4	9	133.0	9.0	757.1	73.4	56.5	36	62.0	49.5	8	101	9.0	800.4
9/9	0.4	57.1	51.9				0	133.0	6.2	763.3	56.7	51.9				0	101	6.1	806.5
9/10	0.0	68.1	46.7	13	61.8	43.4	0	133.0	6.5	769.8	67.4	47.5	12	55.0	44.2	0	101	6.6	813.1
9/11	0.0	80.1	43.4				0	133.0	6.3	776.2	76.5	44.2				0	101	6.5	819.5
9/12	0.0	77.8	55.6				0	133.0	8.8	784.9	76.2	54.9				0	101	8.8	828.3
9/13	0.0	69.9	46.7				0	133.0	6.7	791.6	67.5	46.7				0	101	6.4	834.7
9/14	0.0	70.3	41.1				0	133.0	5.6	797.2	63.5	41.4				0	101	4.5	839.2
9/15	0.0	68.3	48.2	11	51.8	44.0	0	133.0	7.0	804.2	66.6	47.9	11	53.9	44.0	0	101	6.6	845.9
9/16	0.0	73.9	44.0	38	63.4	52.7	9	142.0	6.4	810.5	70.6	44.0				0	101	6.1	852.0
9/17	0.4	63.4	52.7				0	142.0	7.5	818.0	60.2	52.4	33	61.4	52.4	7	108	6.9	858.8
9/18	0.0	67.4	54.7	36	61.1	48.6	8	150.0	8.4	826.4	65.6	54.4	36	60.4	48.2	8	116	8.1	867.0
9/19	0.6	61.1	55.5				0	150.0	7.8	834.2	60.4	55.1				0	116	7.6	874.6
9/20	0.0	72.5	48.6	15	60.8	53.4	1	151.0	7.4	841.6	72.1	48.2	15	60.3	53.0	1	117	7.3	881.9
9/21	0.0	70.2	52.8	13	58.3	48.5	0	151.0	8.2	849.8	69.1	52.9	13	57.7	48.7	0	117	8.2	890.1
9/22	0.0	73.7	48.5	22	61.9	49.8	4	155.0	7.5	857.3	71.8	48.7	21	57.7	49.4	2	119	7.4	897.5
9/23	0.2	57.3	41.9				0	155.0	3.2	860.5	57.1	41.6				0	119	3.1	900.6
9/24	0.0	56.6	37.4				0	155.0	2.2	862.8	55.9	37.1				0	119	2.1	902.7
9/25	0.0	61.4	31.5				0	155.0	2.7	865.4	60.6	31.2				0	119	2.5	905.2
9/26	0.0	69.3	43.4				0	155.0	5.8	871.3	68.3	44.0				0	119	5.8	911.0
9/27	0.0	67.1	34.0	16	51.6	41.2	1	156.0	3.7	874.9	66.2	33.9	15	49.9	40.9	0	119	3.5	914.4
9/28	0.0	55.2	35.5	16	51.2	35.1	1	157.0	1.8	876.8	53.0	35.9	16	51.1	34.9	1	120	1.4	915.8
9/29	0.0	69.7	35.1	14	53.1	36.0	0	157.0	4.4	881.1	64.8	34.9	14	53.7	36.2	0	120	3.4	919.2
9/30	0.0	73.6	36.0				0	157.0	5.1	886.2	71.8	36.2				0	120	4.9	924.1
10/1	0.0	76.7	46.1	14	57.9	39.8	0	157.0	6.9	893.1	75.5	46.5	14	58.3	39.8	0	120	7.0	931.1
10/2	0.0	82.9	39.8				0	157.0	5.8	898.9	80.0	39.8				0	120	5.9	937.0
10/3	0.0	66.9	48.8	14	53.9	44.3	0	157.0	6.9	905.9	66.8	48.4	15	54.1	44.3	0	120	6.8	943.9
10/4	0.0	60.3	44.3				0	157.0	4.5	910.3	59.4	44.3				0	120	4.3	948.1
10/5	0.0	53.4	30.0				0	157.0	1.0	911.3	52.4	30.1				0	120	0.8	948.9
10/6	0.0	47.1	22.3	10	28.1	18.2	0	157.0	0.2	911.6	46.0	22.4	10	30.1	18.8	0	120	0.1	949.0
10/7	0.0	59.2	18.2				0	157.0	1.3	912.8	55.5	18.8				0	120	0.8	949.8
10/8	0.1	60.8	38.4				0	157.0	3.3	916.1	58.8	38.7				0	120	2.9	952.7

Inches Precip. includes daily rainfall and irrigation

Air temperature maximum and minimum are recorded for each day (midnight to midnight)

Hours RH > 90% - number of hours with the relative humidity equal to or greater than 90 %

MaxRH Temp - Maximum temperature during each period that the relative humidity is ≥ 90 %

MinRH Temp - Minimum temperature during each period that the relative humidity is ≥ 90 %

Severity Values are used to denote the effect of temperature and relative humidity on the development of potato late blight

Sum of Sev. Values - A running total of severity value accumulation from emergence.

P-Days - Physiological days are calculated from emergence and are used to predict the first seasonal increase in airborne inoculum of the early blight fungus, to initiate the first fungicide spray for early blight control, and to adjust the rates and intervals of fungicide applications for the remainder of the growing season.

Sum of P-Days - A running total of -Day accumulation from emergence