

Sun. Sep. 1, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	84 °F	Dir. NE	Temp. 76 °F	RW - PRECIP OCCURRED BETWEEN 0800 - 0900 LT WIND GUST TO 30 MPH 0900 LT		
Min.	49 °F	Vel. 14 m.p.h.	Read. 29.14 in.			
Set	51 °F	Char. YAR	Corr. 29.00 in.			
R.H.	71 %	24 hr. Mov. 90.7 mi.	Sea L. 30.37 in.	0700 Clds. 0/10	1300 Clds.	1900 Clds.
Ppn.	Liq. .02 in.	Prev. Dir. NONE	3 hr. Tend. +2 / mb	Wx CLEAR	Wx	Wx
Ppn.	Sol. - in.	Snow Depth - in.	Observer SC	Vis. 20 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 66$$

$$T_{\text{max}} = 52$$

$$CDD = 1$$

$$T_w = 48$$

$$\Sigma H100 = \cancel{8} \quad 0$$

$$\Sigma CDD = \cancel{20} \quad 1$$

$$\Sigma PPN = \cancel{276} \quad 0.02''$$

$$T_{\text{DRAMOS}} = 38$$

$$T_D = 43$$

$$T_{\text{OVNV}} = 42$$

Monday September 2 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.			
Max.	71 °F	Dir.	—	Temp.	77 °F				
Min.	47 °F	Vel.	0 m.p.h.	Read.	29.27 in.				
Set	50 °F	Char.	calm	Corr.	29.13 in.				
R.H.	72 %	24 hr. Mov.	41 mi.	Sea L.	30.49 in.	Clds.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	NE	3 hr. Tend.	+1 / mb	Clds.	1/10 altocum	Clds.	
Ppn.	0 in.	Sol.	0 in.	Snow Depth	0 in.	Wx	• Sunny • Deep Blue • Sky	Wx	Wx
Ppn.	0 in.	Sol.	0 in.	Snow Depth	0 in.	Observer	JCK	Vis.	30 mi.
						Vis.	30 mi.	Vis.	mi.

$$T_{\text{roof}} = 55 \quad \bar{T} = 59 \quad \sum \text{ICV}_L = .02''$$

$$T_w = 50 \quad \text{HDD} = 6$$

$$T_d = 46 \quad \sum \text{HDD} = 6$$

$$\text{CDD} = 0$$

$$\sum \text{CDD} = 1$$

Tues, Sep 3, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	74 °F	Dir. S	Temp. 72 °F	CURRENT LOG 57		
Min.	50 °F	Vel. 4 m.p.h.	Read. 29.14 in.			
Set	58 °F	Char. Steady	Corr. 29.01 in.			
R.H.	78 %	24 hr. Mov. 100.0 mi.	Sea L. 30.34 in.	0700 Clds. 9/10	1300 Clds.	1900 Clds.
Ppn.	Liq. - in.	Prev. Dir. S	3 hr. Tend. ± 0 mb	Wx CLEAR	Wx	Wx
Ppn.	Sol. - in.	Snow Depth - in.	Observer SC	Vis. 10-EAST 20.Westmi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 59$$

$$T_w = 54$$

$$T_d = 52$$

$$\bar{T} = 62$$

$$HDD = 3$$

$$\Sigma HDD = 9$$

$$CDD = 0$$

$$\Sigma CDD = 1$$

~~T_{roof} = 59~~

$$\Sigma PCN_c = .02''$$

Wed. Sept. 4, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 80 °F	Dir. SW	Temp. 71 °F	L ~ 0730 LT			
Min. 58 °F	Vel. 7 m.p.h.	Read. 28.86 in.				
Set 67 °F	Char. light	Corr. 28.74 in.	overnight low = 64			
R.H. 78 %	24 hr. Mov. 102.2 mi.	Sea L. 30.05 in.	0700 10% stratus	1300	1900	
Ppn. T in.	Prev. Dir. SSW	3 hr. Tend. -0.5 mb	Wx rain and gloomy	Wx	Wx	
Ppn. 0 in.	Sol. 0 in.	Snow Depth 0 in.	Observer LAM	Vis. 5 mi.	Vis. mi.	Vis. mi.

$$T_{ref} = 67$$

$$T_w = 63 \quad T_o = 64$$

$$\bar{T} = 69$$

$$C_{DD} = 4$$

$$\sum C_{DD} = 5$$

$$\sum H_{DD} = 9$$

$$\sum PPN = .02^4$$

$$T_{max} = 56$$

$$T_{min} = 62$$

Thursday September 5 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.			Wind	Barom.	General Obs.			
Max.			Dir.	Temp.	• Thick fog at the base of Andover east and southeast. • RW - 1250 - 1600 LT (ocnl RW) • L - 1600 - 1645 LT			
74	°F		—	72				°F
Min.			Vel.	Read.				
51	°F		0	0	m.p.h.	28.92	in.	
Set			Char.	Corr.				
53	°F		calm	28.79	in.	0700	1300	1900
R.H.			24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.	
90	%		26	30.13	0/10			
Ppn.	Liq.		Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
0.27	in.		WSW	+2	• Fog • Sounding			
Ppn.	Sol.		Snow Depth	Observer	Vis.	Vis.	Vis.	
0	in.		0	JAK	20 W. 5 E. mi.			

$$\begin{aligned} T_{\text{low}} &= 57 & \bar{T} &= 63 & \sum_{i=1}^n x_i &= .129 \\ T_w &= 55 & \text{HDD} &= 2 & & \\ T_L &= 54 & \sum \text{HDD} &= 11 & & \\ & & \text{CDD} &= 0 & & \\ & & \sum \text{CDD} &= 4 & & \end{aligned}$$

Friday September 6 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	74 °F	Dir. ENE	Temp. 70 °F	* Fog along Ridge areas (more extensive to the Southwest than yesterday A.M.)		
Min.	53 °F	Vel. 3 m.p.h.	Read. 29.03 in.			
Set	57 °F	Char. V. L. Light	Corr. 28.91 in.	* out low: 55		
				0700	1300	1900
R.H.	84 %	24 hr. Mov. 15 mi.	Sea L. 30.26 in.	Clds. 10/10 cirrus 10/10 altocum	Clds.	Clds.
Ppn.	Liq. 0 in.	Prev. Dir. NE	3 hr. Tend. +1 1/2 mb	Wx * Dim Sun * Haze, Fog	Wx	Wx
Ppn.	Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 3 v. 12 sec else, 12 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 57 \quad \bar{T} = 64 \quad \sum P_{\text{ext}} = \cancel{100} \\ 129$$

$$T_w = 54 \quad H_{\text{DD}} = 1$$

$$T_A = 52 \quad \sum H_{\text{DD}} = 12$$

$$C_{\text{DD}} = 0$$

$$\sum C_{\text{DD}} = 4$$

Saturday Sep. 7, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 78 °F	Dir. -		Temp. 76 °F	- LOW LEVEL (VALLEY FOG) S, SW		
Min. 53 °F	Vel. 0 m.p.h.	Read. 29.14 in.				
Set 55 °F	Char. CALM	Corr. 29.00 in.				
R.H. 83 %	24 hr. Mov. 20.8 mi.	Sea L. 30.35 in.	0700 Clds. -/10	1300 Clds.	1900 Clds.	
Ppn. 0 in.	Liq. -	Prev. Dir. S	3 hr. Tend. +1.0 mb	Wx Bright Sunshine	Wx	Wx
Ppn. -	Sol. -	Snow Depth -	Observer CPB	Vis. 10 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 66$$

$$C_{\text{TP}} = 1$$

$$\sum H_{\text{TP}} = 12$$

$$\sum C_{\text{TP}} = 5$$

$$\sum \text{ppv} = .29''$$

$$T_{\text{roof}} = 55$$

$$T_w = 52$$

$$T_D = 50$$

$$T_{D \text{ RAMOS}} \cong 49$$

$$T_{D \text{ UNV}} = 54$$

SUNDAY Sep. 8, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 80 °F	Dir. -	Temp. 74 °F	Valley fog			
Min. 53 °F	Vel. - m.p.h.	Read. 29.13 in.				
Set 56 °F	Char. Calm	Corr. 29.06 in.				
R.H. 87 %	24 hr. Mov. 11.1 mi.	Sea L. 30.35 in.	0700 Clds. 2/10	1300 Clds.	1900 Clds.	
Ppn. -	Liq. in.	Prev. Dir. W	3 hr. Tend. +1 mb	Wx Mostly Clear	Wx	Wx
Ppn. -	Sol. in.	Snow Depth in.	Observer SC	Vis. 2 mi E 5 mi W mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 66$$

$$C_{OD} = 1$$

$$\epsilon_{H_{OD}} = 12$$

$$\epsilon_{C_{OD}} = 6$$

$$\epsilon_{PPN} = .29''$$

$$T_{ROOF} = 59$$

$$T_W = 57$$

$$T_D = 55$$

$$T_{ORAMOS} = 48$$

$$T_{OUNU} = 54$$

Monday Sept. 9, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 84 °F	Dir. -	Temp. 69 °F	- PATCHY VLY. FOG			
Min. 55 °F	Vel. 0 m.p.h.	Read. 29.09 in.				
Set 59 °F	Char. CALM	Corr. 20.97 in.				
R.H. 83 %	24 hr. Mov. 16.1 mi.	Sea L. 30.31 in.	Clds. -10	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. SW	3 hr. Tend. 770.2 mb	Wx SUNNY	Wx	Wx
Ppn. - in.	Sol. in.	Snow Depth - in.	Observer CPB	Vis. 10 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 70$$

$$C_{\text{pp}} = 5$$

$$\sum C_{\text{pp}} = 11$$

$$\sum H_{\text{pp}} = 12$$

$$\sum \text{ppn} = .29''$$

$$T_{\text{roof}} = 59$$

$$T_w = 56$$

$$T_d = 54$$

$$T_d(\text{RAMOS}) = 50$$

$$T_d(\text{LUV}) = 56$$

Tues. Sep 10, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	82 °F	Dir.	Temp.	PG THROUGHOUT AREA AT OBS RW-, ONNL RW 0430-0750 LT OVRHT 10 = 63		
		—	74 °F			
Min.	59 °F	Vel.	Read.			
		0 m.p.h.	28.92 in.			
Set	63 °F	Char.	Corr.			
		CA/m	28.79 in.	0700	1300	1900
R.H.	93 %	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
		62.3 mi.	30.11 in.	10/0		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
0.33	in.	S	1-0.5 mb	OVC/FOG		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.
—	in.	— in.	SC	1-2 mi.	mi.	mi.

$$\bar{T} = 70$$

$$C_{00} = 5$$

$$\Sigma C_{00} = 16$$

$$\Sigma H_{00} = 12$$

$$\Sigma PAN = .62''$$

$$T_{\text{ramos}} = 63$$

$$T_{00} = 62$$

$$T_0 = 61$$

Wednesday Sept 11, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 74 °F	Dir. NNW	Temp. 74 °F	RN+ ~ 1545 LT - 1555 LT RN- ~ 1555 LT - 1630 LT brief RW - c. 2330 LT			
Min. 62 °F	Vel. 8 m.p.h.	Read. 28.87 in.				
Set 62 °F	Char. light	Corr. 28.74 in.				
R.H. 78 %	24 hr. Mov. 60.3 mi.	Sea L. 30.06 in.	Clds. 9/10 strato cu	0700	1300	1900
Ppn. .04 in.	Liq. SN	Prev. Dir. SN	3 hr. Tend. +1.0 mb	Wx grey and cool	Wx	Wx
Ppn. 0 in.	Sol. 0 in.	Snow Depth 0 in.	Observer LAM	Vis. 15 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 62$$

$$T_w = 58$$

$$T = 68$$

$$C_{\text{TD}} = 3$$

$$\Sigma C_{\text{TD}} = 19$$

$$\Sigma H_{\text{TD}} = 12$$

$$\Sigma \text{PPV} = .66''$$

$$T_{\text{DRAIN}} = 51$$

$$T_0 = 55$$

$$T_{\text{PUNI}} = 57$$

Thursday September 12 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 75 °F	Dir. NE	Temp. 71 °F	* Sky is Gray to the west-northwest * below the whole deck of A ₂ & A ₁ on its surface. * a crisp morning			
Min. 54 °F	Vel. 11 m.p.h.	Read. 28.95 in.				
Set 55 °F	Char. Steady	Corr. 28.83 in.	0700	1300	1900	
R.H. 84 %	24 hr. Mov. 70 mi.	Sea L. 30.17 in.	Clds. 8/10 High A ₂ 1/10 Thick A ₂ (from A ₁)	Clds.	Clds.	
Ppn. 0 in.	Liq. Prev. Dir. WNW	3 hr. Tend. +1 mb	Wx • Partly Sunny • Single Haze/Fog	Wx	Wx	
Ppn. 0 in.	Sol. Snow Depth 0 in.	Observer JCK	Vis. 15 to 30 mi.	Vis. mi.	Vis. mi.	

$$T_{\text{roof}} = 57 \quad T = 65 \quad \sum PCN_L = .66''$$

$$T_w = 54 \quad HAD = 0$$

$$T_L = 52 \quad \sum HAD = 12$$

$$CAD = 0$$

$$\sum CAD = 19$$

Friday September 13 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.			
Max.	71 °F	Dir.	E	Temp.	76 °F	• Moderately foggy along the ridge roads + the center.			
Min.	46 °F	Vel.	2 m.p.h.	Read.	28.93 in.				
Set	47 °F	Char.	brady here	Corr.	28.79 in.				
R.H.	80 %	24 hr. Mov.	18 mi.	Sea L.	30.15 in.	Clds.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	WNW	3 hr. Tend.	+1 mb	Wx			
Ppn.	0 in.	Snow Depth	0 in.	Observer	JCK	Vis.	15E 25W mi.		

$$T_{\text{roof}} = 51 \quad T = 59 \quad \sum PEN_c = .66''$$

$$T_w = 48 \quad HDD = 6$$

$$T_L = 45 \quad \sum HDD = 18$$

$$CDD = 0$$

$$\sum CDD = 19$$

Saturday Sept. 14, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.	General Obs.				
Max.	73 °F	Dir.	—	Temp.	ONSET. Lo.: 61° TRW ~ 0300 LT - 0340 FRT LTGIC (TE-0340) RW - 0340-0530 LT				
Min.	47 °F	Vel.	0 m.p.h.	Read.				28.85 in.	
Set	63 °F	Char.	CALM	Corr.				28.73 in.	
R.H.	94 %	24 hr. Mov.	12.9 mi.	Sea L.	30.05 in.	0700	1300	1900	
Clds.						Clds.	Clds.	Clds.	
Ppn.	0.33 in.	Prev. Dir.	SW	3 hr. Tend.	+1.0 mb	Wx	PTLY. SUNNY	Wx	Wx
Ppn.	— in.	Snow Depth	— in.	Observer	CPB	Vis.	1 1/2 V. 2 - FH mi.	Vis.	mi.

$$\bar{T} = 60$$

$$H_{\gamma\gamma} = 5$$

$$\sum H_{\gamma\gamma} = 23$$

$$\sum C_{\gamma\gamma} = 19$$

$$\sum p_{\gamma\gamma} = 0.99''$$

$$T_{\text{roof}} = 63$$

$$T_w = 62$$

$$T_d = 61$$

$$T_{d_{\text{unv}}} = 60 (T = 61^\circ)$$

$$T_{d_{\text{RAMOS}}} = 56$$

Sunday Sept. 15, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	80 °F	Dir.	SSW	Temp.	70 °F	OVNCT. LO. : 66		
Min.	63 °F	Vel.	10 m.p.h.	Read.	28.92 in.			
Set	68 °F	Char.	STDY	Corr.	28.80 in.	0700	1300	1900
R.H.	90 %	24 hr. Mov.	29.8 mi.	Sea L.	30.11 in.	Clds.		Clds.
Ppn.	- in.	Prev. Dir.	S	3 hr. Tend.	+0.8 mb	Wx	MSTLY. CLOUDY	Wx
Ppn.	- in.	Snow Depth	- in.	Observer	CPB	Vis.	3F mi.	Vis.
						Vis.		mi.

$$\bar{T} = 72$$

$$H_{DD} = 0$$

$$C_{DD} = 7$$

$$\sum H_{DD} = 23$$

$$\sum C_{DD} = 26$$

$$\sum p_{PN} = 0.99''$$

$$T_{roof} = 68$$

$$T_w = 66$$

$$T_d = 65$$

$$T_{d_{unv}} = 65$$

$$T_{d_{pavos}} = 57$$

Monday Sept. 16, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 82 °F	Dir. SW	Temp. 72 °F	OVNSET. LO = 68			
Min. * 68 °F	Vel. 4 m.p.h.	Read. 28.92 in.	* RECORD MAX. MIN. (BREAKS 67° IN 1915)			
Set 71 °F	Char. STEADY	Corr. 28.80 in.	0700	1300	1900	
R.H. 82 %	24 hr. Mov. 78.0 mi.	Sea L. 30.10 in.	Clds. - %	Clds.	Clds.	
Ppn. ⊖	Liq. in.	Prev. Dir. SSW	3 hr. Tend. +1.0 mb	Wx SUNNY w/HAZE	Wx	Wx
Ppn. -	Sol. in.	Snow Depth -	Observer CPB	Vis. 6H mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 75$$

$$H_{DD} = 0$$

$$C_{DD} = 10$$

$$\sum H_{DD} = 23$$

$$\sum C_{DD} = 36$$

$$\sum p_{DD} = .99''$$

$$T_{\text{roof}} = 71$$

$$T_w = 67$$

$$T_d = 65$$

$$T_{d_{\text{wind}}} = 66$$

$$T_{d_{\text{raios}}} = 61$$

TUES. Sep 17, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. * 90 °F	Dir. SW	Temp. 73 °F	* NEW MAX RECORD, OLD WAS 87 IN 1942			
Min. ** 71 °F	Vel. 4-6 m.p.h.	Read. 28.85 in.	** NEW MAX RECORD, OLD WAS 66 (OVER) IN 1907 MORE HAZE TO THE EAST THAN WEST			
Set 74 °F	Char. ST. VAR.	Corr. 28.72 in.	OVERRIDE LO = 73			
R.H. 79 %	24 hr. Mov. 112.2 mi.	Sea L. 30.01 in.	Clds. 3/10	Clds.	Clds.	
Ppn. 0.0 in.	Liq. in.	Prev. Dir. SW	3 hr. Tend. +2/ mb	Wx Wx	Wx Wx	
Ppn. — in.	Sol. in.	Snow Depth in.	Observer SC	Vis. 2-5 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 80$$

$$H_{DD} = 0$$

$$C_{DD} = 15$$

$$\Sigma H_{DD} = 23$$

$$\Sigma C_{DD} = 51$$

$$\Sigma PPN = .99''$$

$$T_w = 70$$

$$T_d = 68$$

$$T_{dew} = 68$$

$$T_{kamas} = 63$$

$$T_{roof} = 75$$

** HIGHEST MIN. TEMP. ON RECORD
FOR THIS LOCATION IN SEASON

Wed. Sep. 18, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 79 °F	Dir. —	Temp. 74 °F				
Min. 58 °F	Vel. 0 m.p.h.	Read. 28.92 in.				
Set 61 °F	Char. Calm	Corr. 28.79 in.		0700	1300	1900
R.H. 78 %	24 hr. Mov. 83.6 mi.	Sea L. 30.11 in.	Clds. 4/10	Clds.	Clds.	
Ppn. 0	Liq. in.	Prev. Dir. W	3 hr. Tend. ±0 ✓ mb	Wx Bkn	Wx	Wx
Ppn. —	Sol. in.	Snow Depth — in.	Observer SC	Vis. 7 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 68$$

$$H_{00} = 0$$

$$C_{00} = 3$$

$$\Sigma H_{00} = 23$$

$$\Sigma C_{00} = 54$$

$$\Sigma PPN = .99''$$

$$T_D = 55$$

$$T_w = 58$$

$$T_{\text{proof}} = 62$$

Thursday September 19 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 82 °F	Dir. NE	Temp. 73 °F	* Old 24 hr total read: .98, 1896			
Min. 52 °F	Vel. 4 m.p.h.	Read. 28.95 in.	* T HEARD 1510 LT			
Set 52 °F	Char. Steady	Corr. 28.82 in.	* TAW 1700 - 1735 (OCHL TAW, 1/4" MAIL 1730, FGT 400K to HQ) * TAW 1745 - 1800 over			
R.H. 100 %	24 hr. Mov. 30.1 mi.	Sea L. 30.18 in.	Clds. 10/ starts	Clds.	Clds.	
Ppn. Liq. 1.35 in.	Prev. Dir. W	3 hr. Tend. +4 1/2 / mb	Wx Fog	Wx	Wx	
Ppn. Sol. in.	Snow Depth 0 in.	Observer JK	Vis. 1/2 mi.	Vis. mi.	Vis. mi.	

UNCONFIRMED TORNADO NEAR McALEYS FORT

$T_{red} = 51$ $\bar{T} = 67$ $\sum PEN_L = 2.34''$

$T_w = 51$ $HDD = 0$

$T_d = 51$ $\sum HDD = 23$

$CDD = 2$

$\sum CDD = 56$

• RW - 1800 - 1955

• RW + 1955 - 2010

• TRW ~ 2045
(LT9000)

• AE ~ 2300 LT

• RA ~ 0730 LT 19th

Special note: Accu-Wx

Reports Golf Ball size hail (~1")

Also 1" hail damage

Millhain: 2.43"

PRELIM. TOTALS GRABED TO S+E

Boabba: ~3.10"

Friday September 20 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 55 °F	Dir. W		Temp. 70 °F	<ul style="list-style-type: none"> • RW 083 - 0915 LT • RW - 0815 - 1000 LT • RW -- 1405 - 1425 LT 1620 - 1640 LT 		
Min. 39 °F	Vel. 2 m.p.h.		Read. 29.08 in.			
Set 41 °F	Char. light variable		Corr. 28.96 in.	0700	1300	1900
R.H. 86 %	24 hr. Mov. 30 mi.	Sea L. 30.35 in.	Clds. 1/10	Clds.	Clds.	
Ppn. .19 in.	Liq.	Prev. Dir. W	3 hr. Tend. +1 ✓ mb	Wx • in clouds • Ridge base fog	Wx	Wx
Ppn. 0 in.	Sol.	Snow Depth 0 in.	Observer JKK	Vis. 30 mi.	Vis. mi.	Vis. mi.

$$T_{\text{avg}} = 42 \quad \bar{T} = 47 \quad \sum p_{\text{CN}_i} = 2.53''$$

$$T_w = 40 \quad \text{HDD} = 18$$

$$T_L = 38 \quad \sum \text{HDD} = 41$$

$$\text{CDD} = 0$$

$$\sum \text{CDD} = 56$$

Saturday Sept. 21, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	58 °F	Dir.	Temp.	L-: ~1950 LT E 2045 LT "VALLEY FOG - 5"		
	-		68 °F			
Min.	37 °F	Vel.	Read.			
		0 m.p.h.	29.14 in.			
Set	39 °F	Char.	Corr.	0700	1300	1900
		CALM	29.02 in.			
R.H.	92 %	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
		41.1 mi.	30.42 in.	-0/10		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
	T in.	NNW	1+1.5 mb	Bright Sunshine		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.
	- in.	- in.	CPB	20 mi.	mi.	mi.

$$\bar{T} = 48$$

$$H_{DD} = 17$$

$$\sum H_{DD} = 58$$

$$\sum E_{DD} = 56$$

$$\sum p_{PN} = 2.53''$$

$$T_{roof} = 39$$

$$T_w = 38$$

$$T_d = 37$$

$$T_d = 37$$

(MNV)

$$T_{d(RAMOS)} = 33$$

SUNDAY Sept. 22, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.				
57 °F	—	74 °F				
Min.	Vel.	Read.				
36 °F	0 m.p.h.	29.20 in.				
Set	Char.	Corr.		0700	1300	1900
38 °F	Calm	29.07 in.				
R.H.	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.	
92 %	19.9 mi.	30.40 in.	1/10			
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
0 in.	N		+1/mb	CLEAR S FOG EAST		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.
— in.	— in.		SC	5 mi South 1/2 mi East	mi.	mi.

$$\bar{F} = 46$$

$$H_{00} = 19$$

$$\Sigma H_{00} = 77$$

$$\Sigma C_{00} = 56$$

$$\Sigma PPN = 2.53$$

$$T_{00} = 38$$

$$T_0 = 37$$

$$T_{Ramus} = 39$$

Monday Sept. 23, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 68 °F	Dir. SW	Temp. 78 °F	R-: ~0500-0759 LT (OCNL RA) OVRNITE LD ≈ 52			
Min. 38 °F	Vel. 5 m.p.h.	Read. 28.97 in.				
Set 53 °F	Char. GUST TO 10	Corr. 28.83 in.				
R.H. 100 %	24 hr. Mov. 93.8 mi.	Sea L. 30.19 in.	0700	1300	1900	
Clds. -10/10 ovc.	Clds.	Clds.				
Ppn. .07 in.	Liq. S	Prev. Dir. S	3 hr. Tend. ~0.2 mb	Wx LGT. RAINFALL	Wx	Wx
Ppn. - in.	Sol. -	Snow Depth - in.	Observer CPB	Vis. CR-F mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 53$$

$$T_{\text{roof}} = 53$$

$$T_w = 53$$

$$T_d = 53$$

$$T_{\text{down}} = 50$$

$$T_{\text{RAMOS}} = 42$$

$$H_{\text{TP}} = 12$$

$$\Sigma H_{\text{TP}} = 89$$

$$\Sigma C_{\text{TP}} = 56$$

$$\Sigma \text{PAI} = 2.60''$$

TUES. SEP. 24, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 63 °F	Dir. —	Temp. 78 °F	RW - OBS - 1000 LT L - 1000 - 1330 LT			
Min. 42 °F	Vel. 0 m.p.h.	Read. 29.08 in.				
Set 43 °F	Char. Calm	Corr. 28.94 in.				
R.H. 100 %	24 hr. Mov. 56.2 mi.	Sea L. 30.33 in.	0700 Clds. -X	1300 Clds.	1900 Clds.	
Ppn. .11 in.	Liq. in.	Prev. Dir. SW	3 hr. Tend. +1.51 mb	Wx Fog	Wx	Wx
Ppn. — in.	Sol. in.	Snow Depth — in.	Observer SC	Vis. 1/4 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 52$$

$$H_{00} = 13$$

$$\Sigma H_{00} = 102$$

$$\Sigma C_{00} = 56$$

$$\Sigma PPN = 2.71''$$

$$T_{root} = 42$$

$$T_w = 42$$

$$T_d = 42$$

Wednesday Sept. 25/99/ 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 62 °F	Dir. NNE	Temp. 80 °F	1730 LT ~ RW-- 1816 LT ~ 0200 ~ R- 0755 LT ~ L			
Min. 43 °F	Vel. 268 m.p.h.	Read. 28.61 in.	OVERNIGHT LOW = 53			
Set 53 °F	Char. busty	Corr. 28.46 in.	0700	1300	1900	
R.H. 93 %	24 hr. Mov. 52.3 mi.	Sea L. 29.80 in.	Clds. $\frac{12}{10}$	Clds.	Clds.	
Ppn. .30 in.	Liq. SSW	Prev. Dir.	3 hr. Tend. ✓ +.5 mb	Wx WIND & DAMP GREY	Wx	
Ppn. 0 in.	Sol. 0 in.	Snow Depth 0 in.	Observer LAM	Vis. 6 mi.	Vis. mi.	

$$T_{inf} = 52$$

$$T_{rand} = 44$$

$$T_w = 51$$

$$T_0 = 50$$

$$\bar{T} = 53$$

$$T_{D_{ENV}} = 50$$

$$H_{DD} = 12$$

$$\Sigma HDD = 114$$

$$\Sigma COD = 56$$

$$\Sigma PAN = 3.01$$

Thursday September 26 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 57 °F	Dir. SW	Temp. 80 °F	Read. 28.53 in.	• L - ~ 900-1000 LT		
Min. 43 °F	Vel. 0-6 m.p.h.			• R - ~ 1000-1145 LT		
Set 47 °F	Char. Sandy foggy v. hazy	Corr. 28.38 in.		• L - 1145-1230 LT		
R.H. 93 %	24 hr. Mov. 34 mi.	Sea L. 29.73 in.	0700	1300	1900	
Ppn. .03 in.	Liq.	Prev. Dir. W	3 hr. Tend. ± 0 mb	Clds. 10 / station 10 (from 2005)	Clds.	Clds.
Ppn. 0 in.	Sol.	Snow Depth 0 in.	Observer JKK	Wx • overcast • light fog, haze	Wx	Wx
				Vis. 12 mi.	Vis. mi.	Vis. mi.

$$\begin{aligned}T_{\text{reg}} &= 47 & \bar{T} &= 50 & \sum p_{LN} &= 3.04'' \\T_w &= 46 & \text{MDD} &= 15 & \sum p_{LN} &= T \text{ (mm)} \\T_d &= 45 & \sum \text{MDD} &= 129 \\& & \text{CDD} &= 0 \\& & \sum \text{CDD} &= 56\end{aligned}$$

Fairly September 27 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 62 °F	Dir. W	Temp. 74 °F	• RW - ~1600 LT			
Min. 40 °F	Vel. 4-15 m.p.h.	Read. 28.85 in.				
Set 41 °F	Char. Sunny + 28.86	Corr. 28.72 in.	0700	1300	1900	
R.H. 76 %	24 hr. Mov. 107 mi.	Sea L. 30.10 in.	Clds. (low of 0/10 h. m.)	Clds.	Clds.	
Ppn. Liq. T in.	Prev. Dir. WSW	3 hr. Tend. + 2 1/2 mb	Wx • clear, crisp • heavy	Wx	Wx	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 20 v. 40 mi.	Vis. mi.	Vis. mi.	

$$T_{roof} = 41 \quad \bar{T} = 52 \quad \sum P_{AN} = 3.04''$$

$$T_w = 38 \quad HOD = 13 \quad \sum P_{AN} = T \text{ (Hwd)}$$

$$T_A = 34 \quad \sum HOD = 142$$

$$CDD = 0$$

$$\sum CDD = -56$$

Saturday Sept. 28, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 56 °F	Dir. —	Temp. 73 °F	- Frost VSBL / PSU GOLF COURSE			
Min. 34 °F	Vel. 0 m.p.h.	Read. 29.11 in.	- PATCHY VLY F / OBS TIME			
Set 35 °F	Char. CALM	Corr. 28.98 in.	0700	1300	1900	
R.H. 91 %	24 hr. Mov. 83.9 mi.	Sea L. 30.39 in.	Clds. - / 10	Clds.	Clds.	
Ppn. 0 in.	Liq. W	Prev. Dir. W	3 hr. Tend. 4.5 mb	Wx SUNNY	Wx	Wx
Ppn. — in.	Sol. — in.	Snow Depth — in.	Observer CPR	Vis. 20 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 45$$

$$C_{\text{DD}} = 0$$

$$H_{\text{DD}} = 20$$

$$\sum C_{\text{DD}} = 56$$

$$\sum H_{\text{DD}} = 162$$

$$\sum \text{ppn.} = 3.04''$$

$$T_{\text{roof}} = 35$$

$$T_w = 34$$

$$T_d \cong 33 \text{ (32.5)}$$

$$T_{d \text{ Ramos}} = 28$$

$$T_{d \text{ NW}} = 30$$

SUNDAY Sep. 29, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 61 °F	Dir. -	Temp. 73 °F				
Min. 35 °F	Vel. 0 m.p.h.	Read. 29.16 in.				
Set 40 °F	Char. CALM	Corr. 29.03 in.	0700	1300	1900	
R.H. 70 %	24 hr. Mov. 47.4 mi.	Sea L. 30.43 in.	Clds. 8/10	Clds.	Clds.	
Ppn. 0 in.	Liq. W	Prev. Dir.	3 hr. Tend. +.51 mb	Wx Mst. Cldy	Wx	Wx
Ppn. 0 in.	Sol. -	Snow Depth - in.	Observer SC	Vis. 10 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 50.40$$

$$T_0 = 33$$

$$C_{00} = 0$$

$$H_{00} = ~~15~~ 15$$

$$\sum C_{00} = 56$$

$$\sum H_{00} = 177$$

$$\sum P_{00} = 3.04''$$

$$\bar{T} = 53$$

$$H_{pp} = 12$$

$$\sum H_{pp} = 189$$

$$\sum C_{pp} = 56$$

$$T_{d \text{ INV}} = 33$$

(11502)

$$T_{d \text{ RAMOS}} = 41$$

$$\sum PPN_i = 3.04''$$