

Monday July 1, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind		Barom.	General Obs.		
Max.	86 °F	Dir.	NE	Temp.	* RAMOS FROZEN @ 2245Z (STOPPED)		
				79 °F			
Min.	60 °F	Vel.	4 m.p.h.	Read.	T: -1720 -1735 Z		
				28.82 in.	TRW+ : 1735 -1745 } .30"		
Set	61 °F	Char.	STEADY	Corr.	TRW : 1745 -1755 } (LOVER)		
				28.68 in.	RW - : 1755 -1805 }		
R.H.	64 %	24 hr. Mov.	* mi.	Sea L.	Clds. 0700	Clds. 1300	Clds. 1900
				30.00 in.	7/10 AC		
Ppn. Liq.	.59 in.	Prev. Dir.	* mi.	3 hr. Tend.	Wx MSTRY. CLOUDY	Wx	Wx
				1+1.0 mb			
Ppn. Sol.	0 in.	Snow Depth	0 in.	Observer	Vis. 10 mi.	Vis. mi.	Vis. mi.
				CPB			

$$\bar{T} = 73$$

$$C_{\text{DD}} = 8$$

$$\sum H_{\text{DD}} = 0$$

$$\sum C_{\text{DD}} = 8$$

$$\sum \text{ppn} = 0.59''$$

$$T_{\text{roof}} = 61 \quad T_d = 49$$

$$T_w = 54$$

$$T_{d \text{ RAMOS}} = \text{N.A.}$$

$$T_{d \text{ UNV}} = 52$$

SI MPH WIND GUST ~ 1740Z

T - 2205-2230	} <u>0.29''</u>
TRW+ - 2235-2245	
TRW - 2245-2255	
RW - 2255-2310	

Tuesday July 2, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp			Wind		Barom.	General Obs.		
Max.	81 °F	Dir.	SE	Temp.	73 °F	Overnight low = 65		
Min.	61 °F	Vel.	1 m.p.h.	Read.	28.72 in.	R = 735-750 LT		
Set	65 °F	Char.	very light	Corr.	28.59 in.	0700	1300	1900
R.H.	58 %	24 hr. Mov.	21.1 mi.	Sea L.	29.90 in.	Clds.	10/10	Clds.
Ppn.	7 in.	Liq.	Prev. Dir.	3 hr. Tend.	10 mb	Wx	WC	Wx
Ppn.	0 in.	Sol.	Snow Depth	0 in.	Observer	LAM	20 mi.	Vis.

$$T_{\text{roof}} = 66 \quad T_{\text{brams}} = 49$$

$$T_w = 57 \quad T_o = 51$$

$$T = 71 \quad T_{\text{DOWN}} = 53$$

$$C_{\text{DD}} = 6$$

$$\Sigma \text{HDD} = 0 \quad \Sigma \text{CDD} = 14$$

$$\Sigma \text{PPV} = .59''$$

wednesday July 3, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind		Barom.	General Obs.		
Max.	80 °F	Dir.	N	Temp.	RW - 1000-1130 EDT (AM) TRW - 0930-0845 EDT (PM)		
Min.	64 °F	Vel.	3 m.p.h.	Read.	OCNL LTSCC SE ~ 0845-1000		
Set	67 °F	Char.	STEADY	Corr.	POWER SURGE KNOCKED * OUT RAMOS ~ 12		
R.H.	87 %	24 hr. Mov.	* mi.	Sea L.	0700	1300	1900
Ppn.	.15 in.	Prev. Dir.	* mi.	3 hr. Tend.	Clds.	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	Wx	Wx	Wx
					1 1/2 mi.	mi.	mi.

$$\bar{T} = 72$$

$$H_{\gg} = 0$$

$$C_{\gg} = 7$$

$$\sum H_{\gg} = 0$$

$$\sum C_{\gg} = 21$$

$$\sum \text{ppn.} = .74''$$

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

$$T_{\text{UNN}} = 65$$

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

$$T_{\text{W}} = 64$$

\*\*\* MIN T OCCURD  
JUST AFTER OBS ON 2ND  
OVERT LO  $\approx$  66

Thursday July 4 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 84 °F	Dir. SE	Temp. 74 °F	R- 0900 LT MOENT LO ≈ 68-69			
Min. 67 °F	Vel. 8 m.p.h.	Read. 28.80 in.	* RAMOS DEAD FOR AFN HRS			
Set 69 °F	Char. light	Corr. 28.67 in.	0700	1300	1900	
R.H. 85 %	24 hr. Mov. * mi.	Sea L. 29.97 in.	Clds. 10/10	Clds.	Clds.	
Ppn. T	Liq. in.	Prev. Dir. *	3 hr. Tend. +1 mb	Wx HAZY, GREY	Wx	Wx
Ppn. 0	Sol. in.	Snow Depth 0 in.	Observer LAM	Vis. 2 mi.	Vis. mi.	Vis. mi.

$$T_{ref} = 68 \quad T_{D_{TOCF}} = 58$$

$$T_W = 65 \quad T_{D_{ENV}} = 65 \text{ (At 10 Z, only report \& couldn't get phone obs)}$$

$$\bar{T} = 76 \quad T_D = 63$$

$$C_{SD} = 11$$

$$\Sigma C_{DD} = 32$$

$$\Sigma H_{DD} = 0$$

$$\Sigma PPN = .74''$$



Friday July 5 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	71 °F	Dir. S	Temp. 73 °F	* RAIN BEGAN AS R- 0835 LT and CONTINUED OFF + ON much of the Day and night, mainly as R- and R+, with some RW and RW+ within.		
Min.	65 °F	Vel. 7 m.p.h.	Read. 28.78 in.			
Set	67 °F	Char. steady	Corr. 28.65 in.			
				0700	1300	1900
R.H.	90 %	24 hr. Mov. 56 mi.	Sea L. 29.95 in.	Clds. * Low N / S * in. STRESS	Clds.	Clds.
Ppn.	.67 in.	Prev. Dir. SSE	3 hr. Tend. ± 0 mb	Wx * OVC * Fog, Haze	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer JK	Vis. 4 v. 7 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 68 \quad \bar{T} = 68 \quad \sum PCN_L = 1.41''$$

$$T_w = 66 \quad HAD = 0$$

$$T_d = 65 \quad \sum HAD = 0$$

$$\angle DD = 3$$

$$\sum \angle DD = 35$$

Saturday July 6 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind		Barom.	General Obs.			
Max.			Dir.		Temp.	• TRW - 1720 LT - 1750 • RW - 1750 - 1820 LT (FEW sprinkles after)			
78	°F		WSW		72				°F
Min.			Vel.		Read.				
61	°F		1-3 m.p.h.		28.80	in.			
Set			Char.		Corr.		0700	1300	1900
65	°F		Sandy stead		28.67	in.			
R.H.			24 hr. Mov.		Sea L.		Clds.		Clds.
90	%		65 mi.		29.97	in.	4/10 airmass airmass		
Ppn.	Liq.		Prev. Dir.		3 hr. Tend.		Wx		Wx
.07	in.		S		+ 1/2 / mb		• Partly Sunny • Hazy		
Ppn.	Sol.		Snow Depth		Observer		Vis.		Vis.
0	in.		0 in.		JCK		15 mi.		mi.

$$T_{\text{roof}} = 67 \quad \bar{T} = 70 \quad \sum OCN_i = 1.416''$$

$$T_w = 65 \quad HDD = 0$$

$$T_L = 64 \quad \sum HDD = 0$$

$$CDD = 5$$

$$\sum CDD = 40$$

Sunday July 7 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind		Barom.	General Obs.			
Max.	85 °F		Dir.	WSW	Temp.	74 °F	T ~ 1600 LT		
Min.	65 °F		Vel.	4 m.p.h.	Read.	28.75 in.			
Set	70 °F		Char.	Light	Corr.	28.62 in.	0700	1300	1900
R.H.	84 %		24 hr. Mov.	62.7 mi.	Sea L.	29.92 in.	Clds.	Clds.	Clds.
Ppt	0 in.		Prev. Dir.	SW	3 hr. Tend.	-0 mb	Wx	Wx	Wx
							hazy		
Ppp	0 in.		Snow Depth	0 in.	Observer	LAM	Vis.	Vis.	Vis.
							10 mi.	mi.	mi.

$$T_{\text{roof}} = 72 \quad T_{\text{RAMOS}} = 60$$

$$\overline{T}_N = 7.5 \quad (T_{\text{roof}} = 9.5) \quad T_D = 65$$

$$T_{\text{UNV}} = 66$$

$$\overline{T} = 75$$

$$e_{\text{DD}} = 10$$

$$\Sigma C_{\text{DD}} = 50$$

$$\Sigma H_{\text{DD}} = 0$$

$$\Sigma \text{PPN} = 1.48''$$

Monday July 8, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	83 °F	Dir.	NE	Temp.	73 °F	* DRY LT 66°		
Min.	65 °F	Vel.	18 m.p.h.	Read.	28.75 in.	TRW - 850 LT		
Set	* 65 °F	Char.	6 TO 28	Corr.	28.62 in.	TRW + 900 LT		
R.H.	97 %	24 hr. Mov.	95.1 mi.	Sea L.	29.93 in.	TRW 905 LT - E 910 LT		
Ppn.	.86 in.	Prev. Dir.	SW	3 hr. Tend.	1.5 mb	TRW 1000 LT - E 1040 LT		
Ppn.	0 in.	Snow Depth	0 in.	Observer	CPB	0700	1300 (OVER)	1900
						Clds.	Clds.	Clds.
						10/10 oc.		
						Wx	Wx	Wx
						Thunder STORM		
						Vis.	Vis.	Vis.
						4		
						TRW+	mi.	mi.

$T_{roof} = 65$      $T_{d\ unv} = 64$   
 $T_w = 64$      $T_{d\ ramps} = 54$   
 $\bar{T} = 74$      $T_d = 64$

$H_{\gg} = 0$   
 $C_{\gg} = 9$   
 $\Sigma H_{\gg} = 0$   
 $\Sigma C_{\gg} = 59$

$\Sigma p.p.n. = 2.34''$   
[  $UNV T_d = 74 !!$   
1900-2000 LT, 74% ]  
(OVRNITE STORMS PROVIDED  $\approx .55''$ )

TRW  $\approx$  1145 LT - E 1200 LT  
MON. (7/8)  
T B 0140 LT  
TRW - 0145 LT - E 0235  
TE 0240 LT  
RW - 0240 LT - E 0400  
(~~DATE~~ LG&CCG IN TRW)  
(WIN) GUST TO 48 MPH)  
-----  
TRW  $\approx$  0600 LT -  
OBS TIME (0800)  
W./ OCNL LG&ICCC





$$T_{\text{ref}} = 65$$

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

$$T_W = 59$$

$$T_D = 55$$

$$\overline{T} = 70$$

$$T_{\text{LUNU}} = 54$$

$$C_{DD} = 5$$

$$\Sigma C_{DD} = 64$$

$$\Sigma H_{DD} = 0$$

$$\Sigma P_{DU} = 2.38''$$

Wednesday July 10, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	80 °F	Dir.	—	Temp.	70 °F			
Min.	55 °F	Vel.	0 m.p.h.	Read.	28.82 in.			
Set	60 °F	Char.	CALM	Corr.	28.70 in.	0700	1300	1900
R.H.	76 %	24 hr. Mov.	54.7 mi.	Sea L.	30.03 in.	Clds.	Clds.	Clds.
Ppn.	0 in.	Prev. Dir.	W	3 hr. Tend.	+0.2 mb	Wx	Wx	Wx
Ppn.	0 in.	Snow Depth	0 in.	Observer	CPB	Vis.	Vis.	Vis.
						4v.6 mi.	mi.	mi.

7/10 Ac  
Wx MOSTLY  
CLOUDY

$$\bar{T} = 68$$

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

$$\sum C_{\text{DP}} = 67$$

$$\sum H_{\text{DP}} = 0$$

$$T_{\text{roof}} = 60$$

$$T_{\text{N}} = 56$$

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

$$T_{\text{D RIMOS}} = 49$$

$$T_{\text{D UNV}} = 55$$

$$\sum \text{PPN} = 2.38''$$

Thursday July 11, 1991  
0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	80 °F	Dir. SW	Temp. 70 °F			
Min.	54 °F	Vel. 1 m.p.h.	Read. 28.80 in.			
Set	59 °F	Char. Practically CALM	Corr. 28.68 in.	0700	1300	1900
R.H.	84 %	24 hr. Mov. 33.0 mi.	Sea L. 30.0 in.	Clds. 0/10	Clds.	Clds.
Ppn.	0 in.	Prev. Dir. WSW	3 hr. Tend. + 1.0 mb	Wx Bright Sunshine	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer LAM	Vis. 25 mi.	Vis. mi.	Vis. mi.

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

$$T_W = 57$$

$$\bar{T} = 67$$

$$C_{DD} = 2$$

$$\Sigma C_{DD} = 69$$

$$\Sigma H_{DD} = 0$$

$$T_{\text{Dramos}} = 49$$

$$T_D = 54$$

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

$$\Sigma PPN = 2.38''$$

Friday July 12 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind		Barom.	General Obs.			
Max.		Dir.			Temp.	• One low for an balloon Pass. overhead NE to SW.			
91	°F	—			70				°F
Min.		Vel.			Read.				
55	°F	0	m.p.h.		28.86	in.			
Set		Char.			Corr.				
60	°F	calm			28.74	in.	0700	1300	1900
R.H.		24 hr. Mov.			Sea L.	Clds.	Clds.	Clds.	
75	%	44	mi.		30.06	in.	9/10 - cumulus small		
Ppn.	Liq.	Prev. Dir.			3 hr. Tend.	Wx	Wx	Wx	
0	in.	WNW			± 0	mb			
Pph.	Sol.	Snow Depth			Observer	Vis.	Vis.	Vis.	
0	in.	0	in.		Jek				
						mi.	mi.	mi.	

$$T_{\text{avg}} = 62 \quad \bar{T} = 68 \quad \sum PW_i = 2.38''$$

$$HDD = 0$$

$$T_w = 57 \quad \sum HDD = 0$$

$$CDD = 3$$

$$T_x = 54 \quad \sum CDD = 72$$



Saturday July 13, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 83 °F	Dir. SW	Temp. 71 °F	RW- 1535-1630 LT RW- ≈ 1730-1900 LT			
Min. 60 °F	Vel. 3 m.p.h.	Read. 28.61 in.				
Set 69 °F	Char. <b>VERY LIGHT</b>	Corr. 28.49 in.	0700	1300	1900	
R.H. 90 %	24 hr. Mov. 60.3 mi.	Sea L. 29.79 in.	Clds. W4 X OVC	Clds.	Clds.	
Ppn. .04 in.	Liq. Prev. Dir. S	3 hr. Tend. -1.0 mb	Wx FOG- HAZE	Wx	Wx	
Ppn. - in.	Sol. Snow Depth - in.	Observer CPB	Vis. 1 1/2 mi.	Vis. mi.	Vis. mi.	

$$\bar{T} = 72$$

$$T_w = 67$$

$$T_{D \text{ RAMOS}} = 60$$

$$C_{DD} = 7$$

$$T_{\text{Roof}} = 69$$

$$T_{D \text{ UNV}} = 67$$

$$\sum C_{DD} = 79$$

$$T_D = 66$$

$$\sum H_{DD} = 0$$

$$\sum \text{ppm} = 2.42''$$

Sunday July 14 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	83 °F	Dir. N	Temp. 70 °F	TRW ~ 1955 LT TRW ~ 2005 LT TRW ~ 2010 LT RE ~ 2030 LT		
Min.	63 °F	Vel. 2.8 m.p.h.	Read. 28.75 in.			
Set	64 °F	Char. light: Bcast	Corr. 28.63 in.			
R.H.	75 %	24 hr. Mov. 96.6 mi.	Sea L. 29.95 in.	0700	1300	1900
Ppn.	Liq. .55 in.	Prev. Dir. W	3 hr. Tend. 1.5 mb	Clds. 7/10	Wx	Wx
Ppn.	Sol.	Snow Depth	Observer	Wx Sunny	Vis.	Vis.
0	in.	0 in.	LAM	5 mi.	mi.	mi.

$$\begin{aligned}T_{\text{roof}} &= 65 & T_{\text{air}} &= 54 \\T_W &= 60 & T_D &= 57 \\T &= 73 & T_{\text{D unv}} &= 59 \\L_{\text{DD}} &= 8 \\ \Sigma L_{\text{DD}} &= 87 \\ \Sigma A_{\text{DD}} &= 0 \\ \Sigma \text{ppn} &= 297''\end{aligned}$$

Monday, July 15, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind	Barom.	General Obs.			
Max.			Dir.	Temp.	RW- $\approx$ 1800 LT			
80	°F		-	75				°F
Min.			Vel.	Read.				
53	°F		0	m.p.h.	29.08	in.		
Set			Char.	Corr.	0700	1300	1900	
60	°F		CALM	28.95	in.			
R.H.			24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.	
72	%		60.6	mi.	30.29	in.	0/10 CLR.	
Ppn.	Liq.		Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
.01	in.		WNW	1+1.2	mb	SUNNY		
Ppn.	Sol.		Snow Depth	Observer	Vis.	Vis.	Vis.	
0	in.		0	in.	CPB	10	mi.	

$$T_{\text{root}} = 60$$

$$T_w = 55$$

$$\bar{T} = 67$$

$$C_{\text{DD}} = 2$$

$$\sum C_{\text{DD}} = 89$$

$$\sum H_{\text{DD}} = 0 \quad \sum \text{PPN} = 2.98''$$

$$T_{\text{ Ramos}} = 49$$

$$T_{\text{ MV}} = 54$$

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

Tuesday July 16, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	82 °F	Dir.	Temp.			
		—	75 °F			
Min.	54 °F	Vel.	Read.			
		0 m.p.h.	29.14 in.			
Set	60 °F	Char.	Corr.	0700	1300	1900
		CALM	29.61 in.			
R.H.	65 %	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
		26.1 mi.	30.35 in.	$\frac{1}{10}$ .ci $\frac{1}{10}$ .contrals		
Ppn.	0	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
		W	+2.0 mb	Bright Sunshine.		
Ppn.	0	Snow Depth	Observer	Vis.	Vis.	Vis.
		0 in.	LAM	25 mi.	mi.	mi.

$$T_{max} = 62$$

$$T_N = 55$$

$$\bar{T} = 68$$

$$C_{DD} = 3$$

$$\Sigma C_{DD} = 92$$

$$\Sigma H_{DD} = 0$$

$$\Sigma PPN = 2.98'$$

$$T_{oranos} = 46$$

$$T_D = 50$$

$$T_{OWN} = 54$$



Wednesday July 17, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	88 °F	Dir. WSW	Temp. 72 °F			
Min.	59 °F	Vel. 3 m.p.h.	Read. 29.00 in.			
Set	64 °F	Char. STEADY	Corr. 28.87 in.	0700	1300	1900
R.H.	75 %	24 hr. Mov. 33.2 mi.	Sea L. 30.20 in.	Clds. 0/10 CLR	Clds.	Clds.
Ppn.	Liq. 0 in.	Prev. Dir. WSW	3 hr. Tend. -0.0 mb	Wx HAZY SUNSHINE	Wx	Wx
Ppn.	Sol. - in.	Snow Depth - in.	Observer CPB	Vis. 4 v. 6 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 64$$

$$T_w = 59$$

$$\bar{T} = 74$$

$$C_{\text{TT}} = 9$$

$$\sum C_{\text{TT}} = 101$$

$$\sum H_{\text{TT}} = 0 \quad \sum \text{ppm.} = 2.98''$$

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

$$T_{\text{UNV}} = 58 \quad (T=62)$$

$$T_{\text{D}} = 56$$

Thursday July 18, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max 87 °F		Dir. WSW	Temp. 71 °F			
Min. 64 °F		Vel. 6 m.p.h.	Read. 28.85 in.			
Set 69 °F		Char. light	Corr. 28.73 in.	0700	1300	1900
R.H. 68 %		24 hr. Mov. 79.3 mi.	Sea L. 30.03 in.	Clds. .ci 5/10	Clds.	Clds.
Ppn. 0	Liq. in.	Prev. Dir. WSW	3 hr. Tend. +1.0 mb	Wx HAZY	Wx	Wx
Ppn. 0	Sol. in.	Snow Depth 0 in.	Observer LAM	Vis. 6 mi.	Vis. mi.	Vis. mi.

$$T_{\text{root}} = 69 \quad T_{\text{bramos}} = 55$$

$$T_W = 62 \quad T_D = 58$$

$$\overline{T} = 76 \quad \overline{T}_{\text{D UNV}} = 63$$

$$C_{\text{DD}} = 11$$

$$\Sigma C_{\text{DD}} = 112$$

$$\Sigma P_{\text{DU}} = 2.9811$$

$$\Sigma H_{\text{DD}} = 0$$

Friday July 19 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	89 °F	Dir. —	Temp. 78 °F			
Min.	64 °F	Vel. 0 m.p.h.	Read. 28.89 in.			
Set	68 °F	Char. Calm	Corr. 28.75 in.	0700	1300	1900
R.H.	76 %	24 hr. Mov. 45 mi.	Sea L. 30.05 in.	Clds. 0/10	Clds.	Clds.
Ppn.	Liq. 0 in.	Prev. Dir. WSW	3 hr. Tend. +1 mb	Wx - Very Heavy + Sounding	Wx	Wx
Ppn.	Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 4 mi.	Vis. mi.	Vis. mi.

$$T_{adj} = 70 \quad F = 77 \quad \sum PCN_L = 2.98^4$$

$$T_w = 65 \quad MOD = 0$$

$$T_L = 62 \quad \sum MOD = 0$$

$$COD = 12$$

$$\sum COD = 124$$

Saturday July 20, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 93 °F	Dir. SW	Temp. 75 °F	* MIN. @ 12Z FRI. (OBS TIME) OVNBT. LO ≈ 71°			
* Min. 68 °F	Vel. S m.p.h.	Read. 28.95 in.	- HI. TMP. TIES HIGHEST MAX TMP. OF SEASON: (6/22) ALSO			
Set 74 °F	Char. STEADY	Corr. 28.82 in.	0700	1300	1900	
R.H. 78 %	24 hr. Mov. 44.6 mi.	Sea L. 30.12 in.	Clds. 0/10	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. W	3 hr. Tend. +1.7 mb	Wx HAZY SUNSHINE	Wx	Wx
Ppn. -	Sol. in.	Snow Depth in.	Observer CPB	Vis. 2 v. 4 mi. H	Vis. mi.	Vis. mi.

$$\bar{T} = 81$$

$$C_{\text{DD}} = 16$$

$$\sum H_{\text{DD}} = 0$$

$$\sum C_{\text{DD}} = ~~100~~ 140$$

$$\sum \text{ppn.} = 2.98''$$

$$T_{\text{Roof}} = 74$$

$$T_{\text{W}} = 69$$

$$\left. \begin{array}{l} T_{\text{Roof}} = 74 \\ T_{\text{W}} = 69 \end{array} \right\} T_{\text{d}} = 67$$

$$T_{\text{d RANOS}} = 62$$

$$T_{\text{d UNV}} = 68$$



Sunday July 21, 1996 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 90 °F	Dir. SW	Temp. 74 °F				
Min. 72 °F	Vel. 0 m.p.h.	Read. 28.93 in.				
Set 75 °F	Char. light	Corr. 28.80 in.	0700	1300	1900	
R.H. 74 %	24 hr. Mov. 65.2 mi.	Sea L. 30.10 in.	Clds. 0/10	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. WSW	3 hr. Tend. +1.5 mb	Wx BOY IS IT HAZY!!	Wx	Wx
Ppn. 0 in.	Sol. in.	Snow Depth 0 in.	Observer LAM	Vis. 2 mi.	Vis. mi.	Vis. mi.

$$T_{\text{emp roof}} = 75$$

$$T_{\text{brans}} = 61$$

$$T_w = 69$$

$$T_b = 66$$

$$\bar{T} = 81$$

$$T_{\text{D}} = 69$$

$$C_{\text{OD}} = 16$$

$$\Sigma C_{\text{OD}} = 156$$

$$\Sigma H_{\text{DD}} = 0$$

$$\Sigma PPN = 2.98'$$

Monday July 22, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	87 °F	Dir. E	Temp. 76 °F	TRW ~ 1305-1320 LT (PCM. = .13")		
Min.	71 °F	Vel. 3 m.p.h.	Read. 28.95 in.	* POWER SURGE AT 0530 LT KNOCKED OUT RAMOS		
Set	73 °F	Char. VRY. LGT.	Corr. 28.81 in.	0700	1300	1900
R.H.	86 %	24 hr. Mov. *	Sea L. 30.11 in.	Clds. 9/10 - Acc	Clds.	Clds.
Ppn.	.13 in.	Prev. Dir. *	3 hr. Tend. -1.0 mb	Wx HAZY DIM SUN	Wx	Wx
Ppn.	- in.	Snow Depth - in.	Observer CPB	Vis. 1 1/2 V. 2 FH mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 79$$

$$C_{DD} = 14$$

$$H_{DD} = 0$$

$$\Sigma C_{DD} = 170$$

$$\Sigma H_{DD} = 0$$

$$\Sigma ppv. = 3.11''$$

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

$$T_w = 68$$

$$T_D = 67$$

$$T_{DUNV} = 69$$

$$T_{DAMOS} = NA$$

Tuesday July 23, 1991

0700 EST

Meteorological Observatory  
University Park, PA

General Obs.

Temp.		Wind		Barom.		OVERNIGHT LOW ~ 77  73 TIES REZ MAX MIN FOR DATE (also 1972)			
Max	87 °F	Dir.	WSW	Temp.	75 °F				
Min.	73 °F *	Vel.	10 m.p.h.	Read.	28.73 in.				
Set	79 °F	Char.	light	Corr.	28.60 in.				
R.H.	72 %	24 hr. Mov.	96.1 mi.	Sea L.	29.87 in.	Clds.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	SW	3 hr. Tend.	— 0 mb	Wx	Sunny	Wx	Wx
Ppn.	0 in.	Snow Depth	0 in.	Observer	LAM	Vis.	8 mi.	Vis.	mi.

$$T_{\text{root}} = 80$$

$$I_{\Sigma \text{TRANS}} = 64$$

$$T_w = 73$$

$$T_D = 70$$

$$\bar{T} = 80$$

$T_{\text{UNV}} = \text{NOT WORKING}$

$$C_{\text{DD}} = 15$$

$$\Sigma C_{\text{DD}} = 185$$

$$\Sigma H_{\text{PD}} = 0$$

$$\Sigma \text{PPN} = 3.11$$

Wednesday July 24, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind	Barom.	General Obs.				
Max.	92 °F	Dir.	—	Temp.	78 °F	TRW+ 1504-1510 LT (.13") PK WND GUST = 95 MPH (NEW RECORD) ≥ 80 MPH FOR 10-15 SEC. 60-70 MPH FOR ~1 MIN. (ONCE)			
Min.	62 °F	Vel.	0 m.p.h.	Read.	28.80 in.				
Set	65 °F	Char.	CALM	Corr.	28.66 in.				
R.H.	75 %	24 hr. Mov.	44.0 mi.	Sea L.	29.97 in.	Clds.	0700	1300	1900
Ppn.	Liq. 0.25 in.	Prev. Dir.	W	3 hr. Tend.	+0.6 mb	Wx	2/10 Ci		
Ppn.	Sol. — in.	Snow Depth	— in.	Observer	CPB	Wx	MSTLY SUNNY	Wx	Wx
						Vis.	10 mi.	Vis.	mi.

$$\bar{T} = 77$$

$$C_{\text{AD}} = 12$$

$$\Sigma C_{\text{AD}} = 197$$

$$\Sigma H_{\text{AD}} = 0$$

$$\Sigma \text{ppn.} = 3.36^{\text{N}}$$

$$T_{\text{root}} = 65$$

$$T_{\text{W}} = 60$$

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

$$T_{\text{D UNV}} = 60$$

$$T_{\text{D RAMOS}} = 53$$

\* P&A-SIZED HNL @ 1500  
RW 1540-1610 LT (.12")  
RW- 1740-1800 LT  
\* EXTENSIVE TREE  
DAMAGE OUTSIDE STA.



Thursday July 25/1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 85 °F	Dir. —	Temp. 72 °F				
Min. 65 °F	Vel. 0 m.p.h.	Read. 28.81 in.				
Set 66 °F	Char. CALM	Corr. 28.68 in.		0700	1300	1900
R.H. 67 %	24 hr. Mov. 40.1 mi.	Sea L. 29.99 in.	Clds. 10/110	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. W	3 hr. Tend. +1.0mb	Wx Ray	Wx	Wx
Ppn. 0 in.	Sol. in.	Snow Depth 0 in.	Observer LAM	Vis. 20 mi.	Vis. mi.	Vis. mi.

$$T = 67 \quad T_{\text{Drains}} = 53$$

$$T_w = 60 \quad T_o = 56$$

$$\bar{T} = 75 \quad T_{\text{DUNN}} = 61$$

$$C_{DD} = 10$$

$$\Sigma C_{DD} = 207$$

$$\Sigma H_{DD} = 0$$

$$\Sigma PPN = 3.310''$$

Friday July 26 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind	Barom.	General Obs.		
Max.	82 °F	Dir.	NE	Temp.	* Rain began at RW ~ 0200 LT		
				72 °F			
Min.	66 °F	Vel.	7 m.p.h.	Read.			
				28.95 in.			
Set	66 °F	Char.	Steady	Corr.	0700	1300	1900
				28.82 in.			
R.H.	90 %	24 hr. Mov.	23 mi.	Sea L.	Clds.	Clds.	Clds.
				30.14 in.	10/10 STRATUS		
Ppn.	.03 in.	Prev. Dir.	SW	3 hr. Tend.	Wx	Wx	Wx
				+2 1/2 mb	*R--		
Ppn.	0 in.	Snow Depth	0 in.	Observer	Vis.	Vis.	Vis.
				JCK	15 mi.	mi.	mi.

$$T_{\text{roof}} = 66 \quad \bar{T} = 74 \quad \sum p_{w_i} = 3.39$$

$$T_w = 64 \quad H_{DB} = 0$$

$$T_d = 63 \quad \sum H_{DB} = 0$$

$$c_{DB} = 9$$

$$\sum c_{DB} = 216$$

Saturday July 27, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind		Barom.		General Obs.			
Max.	75 °F	Dir.	NNE		Temp.	75 °F	RW - ~ 0930-1030 LT ~ 1100-1200 LT			
Min.	61 °F	Vel.	5 m.p.h.		Read.	29.06 in.	R - ~ 1030-1100 LT <			
Set	62 °F	Char.	STDY.		Corr.	28.93 in.	NGED 24" RAINFALL BY (6.12") 12.2-7.1 FOR JULY NORM			
R.H.	69 %	24 hr. Mov.	32.2 mi.		Sea L.	30.26 in.	Clds.	0700	1300	1900
Ppn.	.12 in.	Prev. Dir.	NE		3 hr. Tend.	1+1.5 mb	Clds.	-1/10	-AC	
Ppn.	- in.	Snow Depth	-		Observer	CPB	Wx	CRYSTAL	Wx	Wx
							Wx	CLR. SUNSHINE	Vis.	Vis.
							Vis.	15 mi.	mi.	mi.

$$\bar{T} = 68$$

$$C_{PP} = 3$$

$$\sum C_{PP} = 219$$

$$\sum H_{PP} = 0$$

$$\sum PPN = 3.51''$$

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

$$T_N = 56$$

$$T_d = 52$$

$$T_{d \text{ RAMOS}} = 50$$

$$T_{d \text{ UNV}} = 52$$

Sunday July 28 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 80 °F	Dir. NE	Temp. 79 °F				
Min. 55 °F	Vel. 10 m.p.h.	Read. 29.05 in.				
Set 59 °F	Char. light	Corr. 28.90 in.		0700	1300	1900
R.H. 72 %	24 hr. Mov. 45.4 mi.	Sea L. 30.24 in.	Clds. 7/10 CL	Clds.	Clds.	
Ppn. 0	Liq. in.	Prev. Dkr. N	3 hr. Tend. -0.0 mb	Wx Bright sun & cool	Wx	Wx
Ppn. 0	Sol. in.	Snow Depth 0 in.	Observer LAM	Vis. 25 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 60 \quad T_{\text{drains}} = 47$$

$$T_W = 55 \quad T_D = 51$$

$$\bar{T} = 68 \quad T_{\text{downv}} = 52$$

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

$$\Sigma C_{\text{DD}} = 223$$

$$\Sigma H_{\text{DD}} = 0$$

$$\Sigma \text{PPN} = 3.51''$$



Monday July 29, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.			Wind	Barom.	General Obs.		
Max.	83 °F	Dir.	SSE	Temp.	73 °F	- SUN DIMLY VSBL. (BINOC)	
Min.	59 °F	Vel.	5 m.p.h.	Read.	28.95 in.	(OIG. E95)	
Set	68 °F	Char.	STEADY	Corr.	28.82 in.	OVRNT LO #66	
R.H.	59 %	24 hr. Mov.	47.5 mi.	Sea L.	30.13 in.	Clds.	10/10
Ppn.	0 in.	Prev. Dir.	E	3 hr. Tend.	+0.5 mb	Wx	METLY. CLOUDY
Ppn.	- in.	Snow Depth	- in.	Observer	CPB	Vis.	10 mi.
						Vis.	mi.
						Vis.	mi.

$$T_{\text{roof}} = 68$$

$$T_w = 59$$

$$\bar{T} = 71$$

$$C_{\text{roof}} = 6$$

$$\sum H_{\text{roof}} = 0$$

$$\sum C_{\text{roof}} = 229$$

$$T_{\text{D RAIN}} = 50$$

$$T_{\text{D WIND}} = 55$$

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

$$\sum \text{PPN.} = 3.51''$$

Tuesday July 30, 1991 0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	78 °F	Dir. SW	Temp. 72 °F			
Min.	64 °F	Vel. 7 m.p.h.	Read. 28.88 in.			
Set	65 °F	Char. light	Corr. 28.75 in.	0700	1300	1900
R.H.	81 %	24 hr. Mov. 111.0 mi.	Sea L. 30.06 in.	Clds. 10/10	Clds.	Clds.
Ppn.	0 in.	Prev. Dir. SE	3 hr. Tend. +0.5 mb	Wx DNC	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer LAM	Vis. 7 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 65 \quad T_{\text{D rooms}} = 53$$

$$T_w = 61 \quad T_D = 59$$

$$\overline{T} = 71 \quad T_{\text{D UNV}} = 60$$

$$C_{\text{DD}} = 6$$

$$\sum C_{\text{DD}} = 235$$

$$\sum H_{\text{DD}} = 0$$

$$\sum \text{PPN} = 3.51''$$

Wednesday July 31, 1991

0700 EST

Meteorological Observatory  
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 73 °F	Dir. -	Temp. 72 °F	R-- ~ 1615-25 LT } ~.02" R- ~ 1625-1720 LT }			
Min. 60 °F	Vel. 0 m.p.h.	Read. 28.92 in.	TB 1945 LT TRW - 1955-2035 LT TE 2035 LT (OVER)			
Set 63 °F	Char. CALM	Corr. 28.79 in.	0700	1300	1900	
R.H. 74 %	24 hr. Mov. 74.9 mi.	Sea L. 30.11 in.	Clds. -1/10 Acc	Clds.	Clds.	
Ppn. .12 in.	Liq. S	Prev. Dir. S	3 hr. Tend. +2.0 mb	Wx MOSTLY SUNNY	Wx	Wx
Ppn. -	Sol. -	Snow Depth -	Observer CPB	Vis. 10 mi.	Vis. mi.	Vis. mi.

$$\bar{T} = 67$$

$$C_{DD} = 2$$

$$\Sigma H_{DD} = 0$$

$$\Sigma C_{DD} = 237$$

$$T_{roof} = 63$$

$$T_w = 58$$

$$\Sigma PPN = 3.63''$$

$$T_d = 55$$

$$T_{d_{min}} = 60$$

$$T_{d_{max}} = 53$$

More precip. N  
of station  
~.45" in station

1991 JUL. PRECIP. = 3.63"
NORM JUL. PRECIP. = 3.75"
TOTAL FOR 1991 SO FAR = 18.10"
{ RW - ~ 2035-2105 LT
{ RW 2105-50 LT
{ RW - ~ 2150-2230 LT
* DEVIATION FROM NORM. (JAN - 31 JUL 1991) = -5.60"