MONDAY, APRIL 1, 1991 — 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 48 °F	Dir. SW	Temp. 74 °F	• S- 0530- obs, 1st (same SP-) • overnite low @ obs, 1st
Min. 26 °F	Vel. 4 m.p.h.	Read. 28.83 in.	
Set 33 °F	Char. light	Corr. 28.70 in.	
R.H. 96 %	24 hr. Mov. 78 mi.	Sea L. 29.99 in.	
Ppn. Liq. 0.07 in.	Prev. Dir. S	3 hr. Tend. ∨ 0 mb	
Ppn. Sol. 0.4 in.	Snow Depth T in.	Observer MSS	

0700	1300	1900
Clds. -X	Clds.	Clds.
Wx SP-	Wx	Wx
Vis. 1½ mi.	Vis. mi.	Vis. mi.

$T_{roof} = 31$ $T_{um} = 33$

$T_{d_{roof}} = 28$ $T_{d_{um}} = 32$

$\bar{T} = 37$

$HDD = 28$

$\Sigma HDD = 28$

$\Sigma PCN_L = 0.07"$

$\Sigma PCN_S = 0.4"$

TUES. APRIL 2, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 45 °F	Dir. W	Temp. 74 °F	S-SW- 0605-0745 RW- 1205-15 RW-IPW 1315-25 SPW 1715-40 SW- 0230-0300 LT
Min. 32 °F	Vel. 8 m.p.h.	Read. 29.06 in.	
Set 33 °F	Char. Steady	Corr. 28.93 in.	

0700	1300	1900
Clds. 9/10	Clds.	Clds.
Wx SW -	Wx	Wx
Vis. 10 mi.	Vis. mi.	Vis. mi.

R.H.	24 hr. Mov.	Sea L.
74 %	138.5 mi.	30.35 in.
Ppn. Liq. .01 in.	Prev. Dir. W	3 hr. Tend. +3 mb
Ppn. Sol. .1 in.	Snow Depth T in.	Observer SC

$T_{ROIF} = 32$ $T_{AVG} = 33$

$T_{ADAMS} = 22$ $T_{AVG} = 26$

$\bar{T} = 29$

$HDD = 26$

$\Sigma HDD = 54$

$\Sigma PCN_A = 0.08"$

$\Sigma PCN_S = 0.5"$

Wed. Apr. 3, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 42 °F	Dir. —	Temp. 74 °F	few sw-- [illegible] 1230 LT		
Min. 21 °F	Vel. 0 m.p.h.	Read. 29.35 in.	Frost all quads, hvy on golf course Patchy LF NE-SE		
Set 24 °F	Char. Calm	Corr. 29.22 in.	0700	1300	1900
R.H. 77 %	24 hr. Mov. 92.4 mi.	Sea L. 30.68 in.	Clds. 0/10	Clds.	Clds.
Ppn. T Liq. in.	Prev. Dir. WNW	3 hr. Tend. +2.5 / mb	Wx CLR	Wx	Wx
Ppn. T Sol. in.	Snow Depth 0 in.	Observer ESP	Vis. 25 mi.	Vis. mi.	Vis. mi.

Tpool: 25.[illegible]

Tair: 23

Td: 19

$\overline{F}$: 32

Has: 33

Σ_{H_2O}: 87

Σpcn(L): 0.08"

Σpcn(S): 0.5"

THURSDAY, APRIL 4, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 55 °F	Dir. —	Temp. 74 °F	• valley fog vcble E-SE • ovnt lo = 31		
Min. 24 °F	Vel. 0 m.p.h.	Read. 29.30 in.			
Set 33 °F	Char. calm	Corr. 29.17 in.	0700	1300	1900
R.H. 78 %	24 hr. Mov. 19 mi.	Sea L. 30.48 in.	Clds. 8/10 thin Ci	Clds.	Clds.
Ppn. 0 Liq. in.	Prev. Dir. variable	3 hr. Tend. /+1 mb	Wx sunny	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer MSS	Vis. 12 mi.	Vis. mi.	Vis. mi.

$T_{ww} = 32$

$T_{dww} = 26$

$T_{roof} = 37$

$\bar{T} = 40$

$HDD = 25$

$\Sigma HDD = 112$

$\Sigma PCN_L = 0.08"$

$\Sigma PCN_S = 0.5"$

Fri: April 5 1991 — 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.
Max. 67 °F	Dir. SSW	Temp. 76 °F
Min. 33 °F	Vel. 12-[illegible] m.p.h.	Read. 29.00 in.
Set 52 °F	Char. [illegible]	Corr. [illegible].86 in.
R.H. 69 %	24 hr. Mov. 125 mi.	Sea L. 30.24 in.
Ppn. Liq. T in.	Prev. Dir. S	3 hr. Tend. -1 ⌐ mb
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK

General Obs.

• ovnt low: 52

	0700	1300	1900
Clds.	[illegible]		
Wx	• [illegible] • [illegible]		
Vis.	15 v 20 mi.	mi.	mi.

$T_{Avg_{ER}} = 52$ $\bar{T} = 50$ $\sum Icm_L = 0.08''$

$T_w = —$ $HDD = 15$ $\sum Icm_S = 0.5''$

$T_L = 42$ $\sum HDD = 127$

Sat. April 6, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 61 °F	Dir. S	Temp. 74 °F	RW- 1345 - 1500 LT RW 1600 - 55
Min. 42 °F	Vel. 6-8 m.p.h.	Read. 28.94 in.	
Set 48 °F	Char. Steady	Corr. 28.81 in.	
R.H. 71 %	24 hr. Mov. 99.8 mi.	Sea L. 30.17 in.	
Ppn. Liq. .23 in.	Prev. Dir. S	3 hr. Tend. 0 ± mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer SC	

0700	1300	1900
Clds. 3/10	Clds.	Clds.
Wx Mstly Sw.	Wx	Wx
Vis. 10 mi.	Vis. mi.	Vis. mi.

$T_{MAX} = 51$

$T_W = -$

$T_A = 42$

$\bar{T} = 51$

$HDD = 14$

$\Sigma HDD = 141$

$\Sigma PCN_L = 0.31"$

$\Sigma PCN_S = 0.5"$

Sun. Apr. 7, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 71 °F	Dir. 0	Temp. 77 °F	Hazy NE-SE 5mi in haze		
Min. 48 °F	Vel. 0 m.p.h.	Read. 28.86 in.	EDT Begins		
Set 55 °F	Char. Ocal SW at 2 mainly calm	Corr. 28.72 in.	Overcast 52 @ 0300 EDT		
			0700	1300	1900
R.H. 56 %	24 hr. Mov. 116.6 mi.	Sea L. 30.05 in.	Clds. 3/10 Ci	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. SW	3 hr. Tend. /+1.1 mb	Wx -SCT	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer ESP	Vis. 15 mi.	Vis. mi.	Vis. mi.

Troof: 65

Tucr: 56

Td: [redacted] 49

$\bar{T}$: 60

tab: 5

Σtab: 146

Epcn (c): 0.24"

Epcn (s): 0.5"

Monday, April 8, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 82 °F	Dir. —	Temp. 80 °F	• overnite low = 57 • few cirrocumulus moving in with cloud deck from SW • crepuscular rays visible • first cooling degree days of the season		
Min. 55 °F	Vel. 0 m.p.h.	Read. 28.83 in.			
Set 58 °F	Char. calm	Corr. 28.68 in.	0700	1300	1900
R.H. 75 %	24 hr. Mov. 121 mi.	Sea L. 29.95 in.	Clds. 5/10 • As • Ac	Clds.	Clds.
Ppn. 0 Liq. in.	Prev. Dir. S	3 hr. Tend. / + 1/4 mb	Wx partly sunny	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer MSS	Vis. 10 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 60$

$T_{w_{roof}} = 54$

$T_{d_{roof}} = 49$

$T_{conv} = 57$

$T_{d_{conv}} = 49$

$\bar{T} = 69$

$HDD = 0$ $\quad CDD = 4$

$\Sigma HDD = 146$ $\quad \Sigma CDD = 4$

$\Sigma PCN_L = 0.31"$

$\Sigma PCN_S = 0.5"$

TUES. April 9, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. *80 °F	Dir. SW	Temp. 79 °F	* NEW RECORD MAX (OLD 78° 1959) # NEW RECORD MAX-MIN (OLD 54° 1929) RW- 1450-1610 LT TRW- 1855-2020 (OCNL TRW) GUST TO 46 @ 1855 LT RW- 2230-0100 LT (OCNL RW) RW- 0400-0420 LT
Min. #58 °F	Vel. 10 m.p.h.	Read. 28.67 in.	
Set 61 °F	Char. VAR.	Corr. 28.53 in.	

	0700	1300	1900
R.H. 80 %	Clds. 9/10	Clds.	Clds.
Ppn. Liq. 0.27 in.	Wx Few Breaks Ovcst	Wx	Wx
Prev. Dir. S	3 hr. Tend. +10.5 mb		
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer SC	Vis. 10 mi. / Vis. mi. / Vis. mi.

$T_{ROOF} = 62$ HDD = 0 CDD = 4

$T_{WROOF} = 55$ $\Sigma HDD = 146$ $\Sigma CDD = 8$

$T_{dROOF} = 56$

$\Sigma PCN_L = 0.58"$

$\Sigma PCN_S = 0.5"$

$T_{UNV} = 60$

$T_{dUNV} = 59$

OVRNT LO = 61

$\bar{T} = 69$

Wed. Apr. 16, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.
Max. 77 °F	Dir. W	Temp. 74 °F
Min. 48 °F	Vel. 21 m.p.h.	Read. 28.62 in.
Set 48 °F	Char. Gust to 45	Corr. 28.49 in.
R.H. 48 %	24 hr. Mov. NA mi.	Sea L. 29.84 in.
Ppn. Liq. .13 in.	Prev. Dir. SW	3 hr. Tend. /+3.3 mb
Ppn. Sol. – in.	Snow Depth – in.	Observer ESP

General Obs.

PRESRR
CLR SW MVG NE
RW– 1925–1940 (rainbow NE)
2025–2040
2300–0030
TRWA 2015–2055 LTGICCCCCGCA HLSTO 5/8
Poss Funnel Cloud S 2200–2205 [illegible] (over)

0700	1300	1900
Clds. 8/10 Anvil Fc	Clds.	Clds.
Wx BKN	Wx	Wx
Vis. 35+ mi.	Vis. mi.	Vis. mi.

T: 51
Tmr 43
Td: 32

T̄: 63

Hail: 2

F Hail: 148

S Hail: 8

Spcn(L): 0.71"
Spcn(S): 0.5"

Cont!

T+RW+A 2210-2220 LTGICCCGCA
Gust to 60mph 2215 LT
Hail 1/2 (3/4 Just N of Station)
TRW - 2220 - 2300 LT

PRESJMP 2AB 2210-2220 LT

Gust to 50: 0445 LT
0700 LT

* Confirmed later as an
F0 Gustnado & 4mi SSE
of wx Station

THURSDAY, APRIL 11, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 57 °F	Dir. WNW	Temp. 74 °F	RW-- 1450 LT gusts to 50mph: 1820 LT 0830 LT SPW-- 1820 LT 1030 LT SG--L-- 2215 LT 1735 LT • Sc along ridges • some Ci SW
Min. 35 °F	Vel. 10 m.p.h.	Read. 29.10 in.	
Set 36 °F	Char. G19	Corr. 28.97 in.	
R.H. 67 %	24 hr. Mov. 350 mi.	Sea L. 30.27 in.	
Ppn. Liq. 0.01 in.	Prev. Dir. W	3 hr. Tend. /+2½ mb	
Ppn. Sol. T in.	Snow Depth 0 in.	Observer MSS	

0700	1300	1900
Clds. 2/10 Sc	Clds.	Clds.
Wx mostly sunny	Wx	Wx
Vis. 20 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 35$

$T_{dr} = 24$

$T_{conv} = 35$

$T_{d,conv} = 27$

$T_w = 31$

$T_{d,psy} = 25$

$\bar{T} = 46$

HDD = 19

$\Sigma HDD = 167$

$\Sigma CDD = 8$

$\Sigma PCN_L = 0.72"$

$\Sigma PCN_S = 0.5"$

Fri. April 12 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 55 °F	Dir. —	Temp. 73 °F	• A bit of haze overnight, cleared now due to sunshine.
Min. 30 °F	Vel. 0 m.p.h.	Read. 29.40 in.	
Set 34 °F	Char. Calm	Corr. 29.27 in.	
R.H. 44 %	24 hr. Mov. 159 mi.	Sea L. 30.69 in.	
Ppn. Liq. 0 in.	Prev. Dir. WNW	3 hr. Tend. +3 / mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer SCK	

	0700	1300	1900
Clds.	Clds. 2/10 cirrus	Clds.	Clds.
Wx	Wx • no sunrise • calm, clear	Wx	Wx
Vis.	Vis. 30 v. 45 mi.	Vis. mi.	Vis. mi.

$T_{roof_R} = 36$ $\quad \bar{T} = 43$ $\quad \Sigma I_{CW_L} = 0.72"$

$T_W = —$ $\quad MDA = 22$ $\quad \Sigma I_{CW_S} = 0.5"$

$T_{d_R} = 16$ $\quad \Sigma_{MDA} = 189$

$-DA = 0$

$\Sigma_{CDD} = 8$

Sat. April 13, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 54 °F	Dir. S	Temp. 74 °F	winds increasing with approaching Rain. OVRNT LO = 42 ~0200 LT
Min. 34 °F	Vel. 14 m.p.h.	Read. 29.22 in.	
Set 45 °F	Char. VAR	Corr. 29.09 in.	
R.H. 43 %	24 hr. Mov. 71.7 mi.	Sea L. 30.48 in.	
Ppn. Liq. — in.	Prev. Dir. S	3 hr. Tend. \-0.5 mb	
Ppn. Sol. — in.	Snow Depth — in.	Observer SC	

	0700	1300	1900
Clds.	10/10	Clds.	Clds.
Wx	OVR	Wx	Wx
Vis.	10 mi.	Vis. mi.	Vis. mi.

$T_{DUNV} = 23$

$T_{RMF} = 44$

$T_{d_R} = 23$

$\overline{T} = 44$

$HDD = 21$

$\Sigma HDD = 210$

$CDD = 0$

$\Sigma CDD = 8$

$\Sigma PCN_2 = 0.72"$

$\Sigma PCN_3 = 0.5"$

Sun April 14, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 46 °F	Dir. E	Temp. 72 °F	1945 - 2130 LT R -
Min. 38 °F	Vel. 8 m.p.h.	Read. 29.15 in.	2130 - 2200 R
Set 38 °F	Char. Steady	Corr. 29.02 in.	2200 - 2300 R -
R.H. 82 %	24 hr. Mov. 93.3 mi.	Sea L. 30.42 in.	MAX T OCURD AT 0BS, 13TH
Ppn. Liq. 0.12 in.	Prev. Dir. S	3 hr. Tend. +1.5 mb	
Ppn. Sol. - in.	Snow Depth - in.	Observer SC	

0700	1300	1900
Clds. 10/10	Clds.	Clds.
Wx OVR	Wx	Wx
Vis. 5 mi.	Vis. mi.	Vis. mi.

T_{NORMAL}: 33 $\bar{T} = 42$ $\Sigma PCN_L = 0.84''$

$HDD = 23$ $\Sigma PCN_S = 0.5''$

$\Sigma HDD = 233$

$CDD = 0$

$\Sigma CDD = 8$

MONDAY, APRIL 15, 1991 — 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 43 °F	Dir. S	Temp. 72 °F	• temp rose very slowly over past 24 hours • wind calmer @ sfc • L - 1500 - 1630 LT • R - 1630 2300 LT 0745 - obs, 15th
Min. 38 °F	Vel. 12 m.p.h.	Read. 28.85 in.	
Set 43 °F	Char. Steady	Corr. 28.72 in.	
R.H. 89 %	24 hr. Mov. 102 mi.	Sea L. 30.02 in.	
Ppn. Liq. 0.38 in.	Prev. Dir. SE	3 hr. Tend. \ -2 mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	

0700	1300	1900
Clds. 10/10 NS	Clds.	Clds.
Wx R-F	Wx	Wx
Vis. 5 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 41$

$T_{d_{transs}} = 35$

$T_{unv} = 43$

$T_{d_{unv}} = 40$

$\bar{T} = 41$

$HDD = 24$

$\Sigma HDD = 257$

$\Sigma CDD = 8$

$\Sigma PCN_L = 1.22''$

$\Sigma PCN_S = 0.5''$

TUES APRIL 16, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 56 °F	Dir. SW	Temp. 73 °F	R- 065 - 1030 L - 0915 - 1000 R - 1030 - 1400 (CONC R) MIN OCURD @ 065, 15TH CURNT LO = 49
Min. 43 °F	Vel. 14 m.p.h.	Read. 28.82 in.	
Set 54 °F	Char. VAR	Corr. 28.64 in.	
R.H. 50 %	24 hr. Mov. 145.4 mi.	Sea L. 30.03 in.	
Ppn. Liq. 0.25 in.	Prev. Dir. SW	3 hr. Tend. +2 mb	
Ppn. Sol. — in.	Snow Depth — in.	Observer SC	

0700	1300	1900
Clds. 3/10	Clds.	Clds.
Wx MSTLY SUNNY BREEZY	Wx	Wx
Vis. 20 mi.	Vis. mi.	Vis. mi.

$T_{DR} = 36$

$T_{RMR} = 54$

$F = 49$

$HDD = 16$

$\Sigma HDD = 273$

$CDD = 0$

$\Sigma CDD = 8$

$\Sigma PCN_c = 1.47"$

$\Sigma PCN_s = 0.5"$

Wed. Apr. 17, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 68 °F	Dir. SW	Temp. 74 °F	TRW- 2100 - 2120 LT Few LTGCG 2130 - 2145 LT RW- 0400 - 0430 LT RWE SW & NW ar obs
Min. 48 °F	Vel. 5 m.p.h.	Read. 28.83 in.	
Set 49 °F	Char. Steady	Corr. 28.70 in.	

	0700	1300	1900
R.H. 89 %	Clds. 10/10 Cu	Clds.	Clds.
Ppn. Liq. .06 in.	Prev. Dir. WSW	3 hr. Tend. ↑ -0.0 mb	Wx RW--	Wx	Wx
Ppn. Sol. — in.	Snow Depth — in.	Observer ESP	Vis. 12 mi.	Vis. mi.	Vis. mi.

T_{roof}: 53

T_{wall} 515

T_d: 50

$\bar{T}$: 58

H_{oa} 7

εH_{oa}: 280.

$\varepsilon(_{oa}$: 8

$\varepsilon_{pan(1)}$: 1.53"

$\varepsilon_{pan(2)}$: 0.5"

THURSDAY, APRIL 18, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 60 °F	Dir. NE	Temp. 74 °F	*fog limited to base of ridges • RW- 0800-0915, 17K		
Min. 36 °F	Vel. 6 m.p.h.	Read. 28.89 in.			
Set 40 °F	Char. Steady	Corr. 28.76 in.	0700	1300	1900
R.H. 92 %	24 hr. Mov. 71 mi.	Sea L. 30.05 in.	Clds. 0/10	Clds.	Clds.
Ppn. Liq. 0.02 in.	Prev. Dir. SW	3 hr. Tend. ↑ +1½ mb	Wx fog	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	Vis. 3 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 41$

$T_{d_{roof}} = 32$

$HDD = 17$

$\Sigma HDD = 297$

$\Sigma CDD = 8$

$T_{unv} = 37$

$T_{d_{unv}} = 35$

$\Sigma PCN_L = 1.55''$

$\Sigma PCN_S = 0.5''$

$F = 48$

Fri. Apr. 19, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 60 °F	Dir. SE	Temp. 74 °F	Dark SW vsby NE4		
Min. 40 °F	Vel. 15 m.p.h.	Read. 28.92 in.	MIN T occurred @ OBS, 18th		
Set 45 °F	Char. Gusts to 22	Corr. 28.79 in.	Overt Lo: 45 (at obs)		
			0700	1300	1900
R.H. 74 %	24 hr. Mov. 100.3 mi.	Sea L. 30.17 in.	Clds. 10/10 Cu As	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. E	3 hr. Tend. / +0.7 mb	Wx Fog	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer ESP	Vis. 2 mi.	Vis. mi.	Vis. mi.

T_{roof}: 46.5

T_{wall}: 42.5

T_{cl}: 28

[redacted]

$\bar{T}$: 50

H_{00}: 15

ΣH_{00}: 312

ΣC_{00}: 8

$\Sigma_{plan(L)}$: 1.55"

$\Sigma_{plan(S)}$: 0.5"

Saturday, April 20, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 59 °F	Dir. SE	Temp. 73 °F	• Rain very light • RW- 1615-1645 LT • R- 1800-2000 LT • L- 0630-obs, 20th (est)
Min. 40 °F	Vel. 7 m.p.h.	Read. 28.79 in.	
Set 41 °F	Char. Variable 4-10	Corr. 28.66 in.	
R.H. 89 %	24 hr. Mov. 136 mi.	Sea L. 29.95 in.	
Ppn. Liq. 0.03 in.	Prev. Dir. ESE	3 hr. Tend. 1 + 1/3 mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	

0700	1300	1900
Clds. 1% Ns	Clds.	Clds.
Wx L-F	Wx	Wx
Vis. 7 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 40$

$T_{d_{mass}} = 33$

$HDD = 20$

$\Sigma HDD = 332$

$\Sigma CDD = 8$

$T_{uav} = 40$

$T_{d_{uav}} = 37$

$\Sigma PCN_L = 1.58"$

$\Sigma PCN_S = 0.5"$

$\bar{T} = 45$

Sun. April 21 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 43 °F	Dir. NNE	Temp. 72 °F	the second gloomy weekend in a row. I am very pleased. • Aurora L-L,R- throughout the day and night, but it was dry for significant stretches as well.
Min. 41 °F	Vel. 3 m.p.h.	Read. 28.54 in.	
Set 42 °F	Char. Light + steady	Corr. 28.41 in.	
R.H. R 87 %	24 hr. Mov. 41 mi.	Sea L. 29.77 in.	
Ppn. Liq. .12 in.	Prev. Dir. E	3 hr. Tend. -1½ \ mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	

0700	1300	1900
Clds. 10/ Stratus /10	Clds.	Clds.
Wx • OVC • Fog	Wx	Wx
Vis. 1½ v. 2½ mi.	Vis. mi.	Vis. mi.

$T_{Avg\,L} = 41$ $\bar{T} = 42$ $\Sigma P_{CN_L} = 1.70"$

$T_W = —$ $HDD = 23$ $\Sigma P_{CN_S} = 0.5"$

$T_L = 37$ $\Sigma HDD = 355$

$CDD = 0$

$\Sigma CDD = 8$

MONDAY, APRIL 22, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 45 °F	Dir. W	Temp. 71 °F	AN ABSOLUTELY MISERABLE APRIL MORNING!		
Min. 35 °F	Vel. 8 m.p.h.	Read. 28.26 in.	R- 1100LT - obs		
Set 37 °F	Char. steady	Corr. 28.14 in.	few snowflakes & IPs ~ 2200LT, 21st		
			Snow visible along Tussey Ridge		
			0700	1300	1900
R.H. 89 %	24 hr. Mov. 133 mi.	Sea L. 29.41 in.	Clds. 10/10 NS	Clds.	Clds.
Ppn. Liq. 1.00 in.	Prev. Dir. W	3 hr. Tend. Γ +2 mb	Wx R-F	Wx	Wx
Ppn. Sol. T in.	Snow Depth 0 in.	Observer MSS	Vis. 6 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 37$

$T_{d_{frame}} = 29$

$T_{conv} = 37$

$T_{d_{conv}} = 34$

$\bar{T} = 40$

$HDD = 25$

$\Sigma HDD = 380$

$\Sigma CDD = 8$

$\Sigma PCN_L = 2.70"$

$\Sigma PCN_S = 0.5"$

Tues April 23, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 48 °F	Dir. SW	Temp. 72 °F	OVERNITE LO = 40 R - 0855 - 930 LT L - 0930 - 1100 LT
Min. 37 °F	Vel. 6 m.p.h.	Read. 28.58 in.	
Set 44 °F	Char. Stdy	Corr. 28.45 in.	

	0700	1300	1900
R.H. 63 %	Clds. 4/10	Clds.	Clds.
Ppn. Liq. 0.02 in.	Wx CLEAR	Wx	Wx
Prev. Dir. SW	3 hr. Tend. +2/ mb		
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer SC	Vis. 20 mi.	Vis. mi.	Vis. mi.
24 hr. Mov. 169 mi.	Sea L. 29.81 in.		

$T_{OWW} = 36$

$T_{DRAINS} = 30$

$T_{ROOF} = 46$

$T_{WW} = 45$

$\bar{T} = 43$

$HDD = 22$ $\quad \Sigma CDD = 8$

$\Sigma HDD = 402$

$\Sigma PCN_L = 2.72"$

$\Sigma PCN_S = .05"$

Wed. Apr. 24, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 63 °F	Dir. W	Temp. 71 °F	RW- 0645-0700 0730 - obs (ocnl RW 745-obs)		
Min. 44 °F	Vel. 7 m.p.h.	Read. 28.57 in.			
Set 48 °F	Char. Steady	Corr. 29.45 in.	Obs Lo: 44 @ 0200 CT		
			0700	1300	1900
R.H. 73 %	24 hr. Mov. 80.3 mi.	Sea L. 29.80 in.	Clds. 10/10 Cu	Clds.	Clds.
Ppn. .01 Liq. in.	Prev. Dir. SW	3 hr. Tend. ✓+1.0 mb	Wx RWF	Wx	Wx
Ppn. — Sol. in.	Snow Depth — in.	Observer ESP	Vis. 1 1/4 mi.	Vis. mi.	Vis. mi.

Proof : 47

[redacted]

[redacted] 40

$\bar{T}$: 54

W_{obs}: 11

ΣW_{obs}: 413

ΣC_{obs}: 8

$\Sigma p_{calc}(L)$: 2.73 %

$\Sigma p_{calc}(S)$: 0.54

THURSDAY, APRIL 25, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 52 °F	Dir. WSW	Temp. 72 °F	*fog/haze along ridge bases *R- 0800-1230 LT (accnl R)		
Min. 39 °F	Vel. 3 m.p.h.	Read. 28.99 in.			
Set 44 °F	Char. light	Corr. 28.86 in.	overt low: 39		
R.H. 71 %	24 hr. Mov. 90 mi.	Sea L. 30.16 in.	0700 Clds. 0/10	1300 Clds.	1900 Clds.
Ppn. Liq. 0.22 in.	Prev. Dir. W	3 hr. Tend. F+2 mb	Wx FH	Wx	Wx
Ppn. Sol. — in.	Snow Depth — in.	Observer MSS	Vis. 7 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 45$

$T_w = 41$

$T_d = 36$

$T_{new} = 42$

$T_{d_{new}} = 39$

$\bar{T} = 46$

$HDD = 19$

$\Sigma HDD = 432$

$\Sigma CDD = 8$

$\Sigma PCN_L = 2.95"$

$\Sigma PCN_S = 0.5"$

FRIDAY, APRIL 26, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 68 °F	Dir. —	Temp. 73 °F	· fog along ridge bases, again · cirrostratus visible S-W-N		
Min. 43 °F	Vel. 0 m.p.h.	Read. 28.97 in.			
Set 48 °F	Char. calm	Corr. 28.84 in.	0700	1300	1900
R.H. 68 %	24 hr. Mov. 30 mi.	Sea L. 30.14 in.	Clds. 7/10 Ci	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. S	3 hr. Tend. / +1 mb	Wx dimmed sunshine	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth — in.	Observer MSS	Vis. 8 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 49$

$T_{wet} = 44$

$T_d = 39$

$T_{conv} = 46$

$T_{dew} = 41$

$\bar{T} = 56$

HDD = 9

$\Sigma HDD = 441$

$\Sigma CDD = 8$

$\Sigma PCN_L = 2.95"$

$\Sigma PCN_S = 0.5"$

Sat. April 27, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 72 °F	Dir. –	Temp. 70 °F			
Min. 48 °F	Vel. – m.p.h.	Read. 28.84 in.			
Set 52 °F	Char. Calm	Corr. 28.72 in.	0700	1300	1900
R.H. 74 %	24 hr. Mov. 72.6 mi.	Sea L. 30.07 in.	Clds. 8/10	Clds.	Clds.
Ppn. – Liq. in.	Prev. Dir. SW	3 hr. Tend. +1.5 mb	Wx Mstly Cldy	Wx	Wx
Ppn. – Sol. in.	Snow Depth – in.	Observer SC	Vis. 10 mi.	Vis. mi.	Vis. mi.

$T_{DWN} = 48$

$T_{RAMOS} = 54$

$T_{DRAMOS} = 42$

$\bar{T} = 60$

$HDD = 5$

$\Sigma HDD = 446$ $\Sigma CDD = 8$

$\Sigma PCN_L = 2.95"$

$\Sigma PCN_S = 0.5"$

Sun. Apr. 28, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 79 °F	Dir. —	Temp. 70 °F	H3 Ci mainly NW–N and partially obsc in haze A murky morning
Min. 52 °F	Vel. Calm m.p.h.	Read. 28.77 in.	
Set 59 °F	Char. murky Calm (early)	Corr. 28.65 in.	Overnight Lo: 56 @ 0600 LT

	0700	1300	1900
R.H. 75 %	Clds. 5/10 Haze Ci	Clds.	Clds.
24 hr. Mov. 29.9 mi.	Sea L. 29.97 in.		
Ppn. Liq. 0 in.	Prev. Dir. NE→SW	3 hr. Tend. F +1.0 mb	Wx Haze	Wx	Wx
Ppn. Sol. - in.	Snow Depth — in.	Observer ESP	Vis. 1 3/4 mi.	Vis. mi.	Vis. mi.

Twork: 64
Tmr: 59
Td: 56
$\bar{T}$: 66
Hdd: 0
ΣHdd: 446
Cdd: 1
ΣCdd: 9
Σpcn(c): 2.95
Σpcn(s): 0.5

Monday, April 29, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 76 °F	Dir. E	Temp. 73 °F	fog mainly along base of ridges R- 0300-0400, 0600-0700 (est)		
Min. 48 °F	Vel. 2 m.p.h.	Read. 28.96 in.			
Set 48 °F	Char. very light	Corr. 28.83 in.	0700	1300	1900
R.H. 86 %	24 hr. Mov. 113 mi.	Sea L. 30.13 in.	Clds. 10/10 NS	Clds.	Clds.
Ppn. Liq. 0.06 in.	Prev. Dir. E	3 hr. Tend. ^ + 1/2 mb	Wx Foc	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	Vis. 8 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 48$

$T_{d_{mass}} = 39$

$T_{conv} = 48$

$T_{d_{conv}} = 44$

$\bar{T} = 63$

HDD = 2

$\Sigma HDD = 448$

$\Sigma CDD = 9$

$\Sigma PCN_L = 3.01$ "

$\Sigma PCN_S = 0.5$ "

TUES April 30, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 58 °F	Dir. S	Temp. 70 °F	FOG R- Began after midnight		
Min. 48 °F	Vel. 2-4 m.p.h.	Read. 28.79 in.	"OVRNT LO ~ 53 @ 2000LT, 29th		
Set 57 °F	Char. Light	Corr. 28.67 in.	0700	1300	1900
R.H. 93 %	24 hr. Mov. 56.9 mi.	Sea L. 30.00 in.	Clds. 10/10	Clds.	Clds.
Ppn. Liq. 0.04 in.	Prev. Dir. S	3 hr. Tend. ^ ± 0 mb	Wx OVR - Fog	Wx	Wx
Ppn. Sol. — in.	Snow Depth — in.	Observer SC	Vis. 1/2 mi.	Vis. mi.	Vis. mi.

$T_{WW} = 57$

$T_{DWW} = 56$

$T_R = 56$

$T_{DR} = 52$

$\bar{T} = 53$

$\Sigma PCN_L = 2.05$

$\Sigma PCN_S = 0.5$

$HOD = 12$

$\Sigma HOD = 460$

$\Sigma COD = 9$