Sat. Sept. 1, 1990 — 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 81 °F	Dir. —	Temp. 70 °F	Vsby lwr at base of ridges		
Min. 55 °F	Vel. Calm m.p.h.	Read. 29.05 in.			
Set 57 °F	Char. Calm	Corr. 28.83 in.	[illegible] over Co: 56		
			0700	1300	1900
R.H. 87 %	24 hr. Mov. 22.6 mi.	Sea L. 30.17 in.	Clds. -x Fog 5/10 AC CC	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. SSW	3 hr. Tend. /+0.9 mb	Wx FH	Wx	Wx
Ppn. Sol. - in.	Snow Depth — in.	Observer ESP	Vis. 5 mi.	Vis. mi.	Vis. mi.

T : 62

T_{other} : 60

T_{ϕ} : 58

T: 68

C_{00}: 3

ΣC_{00}: 3

ΣH_{00}: 0

Σ_{pen} : 0

Sunday, Sept. 2, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 83 °F	Dir. SW	Temp. 70 °F	• some altostratus + altocumulus visible		
Min. 57 °F	Vel. 6 m.p.h.	Read. 28.93 in.			
Set 67 °F	Char. steady	Corr. 28.81 in.	0700	1300	1900
R.H. 90 %	24 hr. Mov. 50 mi.	Sea L. 30.12 in.	Clds. −X	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. SSW	3 hr. Tend. ⁄ +1 mb	Wx FH	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	Vis. 3 mi.	Vis. mi.	Vis. mi.

ramos ovnt 6 = 64

$T_{roof} = 67°F$

$T_w = 65°F$

$T_{cl} = 64°F$

$T_{d_{ramos}} = 63°F$

$\bar{T} = 70°F$

$CDD = 5$

$\Sigma CDD = 8$

$\Sigma HDD = 0$

$\Sigma PCN = 0$

Mon., Sept. 3, 1990 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 85 °F	Dir. NE	Temp. 70 °F	From: ~1900 LT		
Min. 57 °F	Vel. 6 m.p.h.	Read. 29.03 in.			
Set 61 °F	Char. Steady	Corr. 28.91 in.	Rain out to: 59		
			0700	1300	1900
R.H. 90 %	24 hr. Mov. 71.7 mi.	Sea L. 30.24 in.	Clds. 6/10 Sc	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. WNW	3 hr. Tend. /1.7 mb	Wx BKN	Wx	Wx
Ppn. Sol. - in.	Snow Depth - in.	Observer ESP	Vis. 12 mi.	Vis. mi.	Vis. mi.

T_{roof}: 66

T_{wall}: 63

T_d: 61

$T_{d\ room}$: 60

$\bar{T}$: 71

c_{00}: 6

Σc_{00}: #14

ΣM_{00} :0

ε_{pcm}: 0

Tues., Sept. 4, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 77 °F	Dir. NE	Temp. 71 °F	Pchy H at ridge bases		
Min. 50 °F	Vel. 3 m.p.h.	Read. 29.21 in.			
Set 52 °F	Char. ocnl calm	Corr. 29.09 in.	Ramos Ovnt Lo: 50		
			0700	1300	1900
R.H. 82 %	24 hr. Mov. 32.3 mi.	Sea L. 30.46 in.	Clds. 9/10 Ci Cc	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. NE	3 hr. Tend. ↗ +0.8 mb	Wx - BKN	Wx	Wx
Ppn. Sol. – in.	Snow Depth – in.	Observer ESP	Vis. 20 mi.	Vis. mi.	Vis. mi.

T_{roof}: 58

T_{wall}: 55

T_d: 53

$\bar{T}_d$ runs: 97

$\bar{T}$: 64

C_{00}: 0

$\varepsilon_{C_{00}}$: 0.14

H_{00}: 1

$\varepsilon_{H_{00}}$: 1

ε_{pcm}: 0

Wed. September 5 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 75 °F	Dir. WSW	Temp. 70 °F	* overt low ~ 59°		
Min. 52 °F	Vel. 5-11 m.p.h.	Read. 28.99 in.			
Set 61 °F	Char. Slightly variable	Corr. 29.87 in.	Ramos: 74, 52 overt low = 59		
			0700	1300	1900
R.H. 84 %	24 hr. Mov. 60 mi.	Sea L. 30.20 in.	Clds. 9/10 increasing overcast	Clds.	Clds.
Ppn. 0 Liq. in.	Prev. Dir. S	3 hr. Tend. -1/2 ^ mb	Wx mcloudy (Dim 5.8)	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer JCK	Vis. 10 mi.	Vis. mi.	Vis. mi.

$T_{max} = 61$ $\bar{T} = 64$ $\Sigma ACN_L = 0$

$T_w = 58$ $HDD = 1$

$T_l = 56$ $\Sigma HDD = 2$

$CDD = 0$

$\Sigma CDD = 14$

THURSDAY, SEPTEMBER 6, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 80 °F	Dir. —	Temp. 71 °F	• RW – 0940 – 1010 LT • Tussey ridge + Mt. Nittany entirely obscured
Min. 61 °F	Vel. 0 m.p.h.	Read. 28.87 in.	
Set 68 °F	Char. calm	Corr. 28.75 in.	Rained Overnight to 64
R.H. 89 %	24 hr. Mov. 60 mi.	Sea L. 30.05 in.	
Ppn. Liq. 0.01 in.	Prev. Dir. SW	3 hr. Tend. — 0 mb	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	

0700	1300	1900
Clds. -X- fractocu. stratus	Clds.	Clds.
Wx fog	Wx	Wx
Vis. 1 1/2 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 66°F$ $T_{d\ ramos} = 63°F$

$T_w = 64.5°F$

$T_d = 63.5°F$

$\bar{T} = 71°F$

CDD = 6

$\Sigma CDD = 1420$

$\Sigma HDD = 2$

$\Sigma PCN = 0.01"$

FRI. SEPT. 7, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 82 °F	Dir. SW	Temp. 72 °F	BRKS IN ALTOCU OVC HIER LVL CI CU ALONG RDWYS PRESFR VIS. LWR WEST RW- 2014 - 2130 LT TRW - 2330 - 0130 OCNL TRW (0100) TRW+		
Min. 65 °F	Vel. 10 m.p.h.	Read. 28.57 in.			
Set 66 °F	Char. G TO 16	Corr. 28.44 in.			
R.H. 95 %	24 hr. Mov. 78 mi.	Sea L. 29.74 in.	0700 Clds. 10/10	1300 Clds.	1900 Clds.
Ppn. Liq. .48 in.	Prev. Dir. SW	3 hr. Tend. ^ -1.0 mb	Wx OVC, HAZE	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JHM	Vis. 3 V 7 mi. W E	Vis. mi.	Vis. mi.

$T_{roof} = 66$ $T_w = 65$ $T_d = 64.5$

$T_{d\,min} = 62$

$\bar{T} = 74$

$C_{DD} = 9$ 29

$\Sigma_{CDD} =$ ~~28~~ $\Sigma_{HDD} = 2$

$\Sigma_{PPN} = 0.49"$

Precip. History (from T.)

RW -, OCNL RW

0425 - 0630 LT

Sat. Sept. 8, 1990 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 77 °F	Dir. NE	Temp. 70 °F	RW - 1845-1900 LT
Min. 54 °F	Vel. 10 m.p.h.	Read. 28.98 in.	Fropa 1845 LT
Set 54 °F	Char. Steady	Corr. 30.86 in.	Lifting fog bank SW-W.
R.H. 69 %	24 hr. Mov. 94.6 mi.	Sea L. 30.21 in.	Rainfall over 60: 55
Ppn. Liq. .03 in.	Prev. Dir. W→N	3 hr. Tend. /+3.1 mb	
Ppn. Sol. - in.	Snow Depth - in.	Observer ESP	

0700	1300	1900
Clds. 2/10 Ci Sc	Clds.	Clds.
Wx SCT	Wx	Wx
Vis. 25 mi.	Vis. mi.	Vis. mi.

T_{roof}: 58

T_{ext}: 53

T_d: 49

$T_{d,mwo}$: 45

$\bar{T}$: 66

C_{Bo}: 1

ε_{Coo}: 30

ε_{Hoo}: 2

ε_{pcn} : 0,52

Sunday, Sept 9, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 73 °F	Dir. SSE	Temp. 68 °F	• RW- 0430-0440 LT, 9M • RW- 0530-0545 LT, 9M • RW- 0755-obs
Min. 54 °F	Vel. 8 m.p.h.	Read. 28.94 in.	
Set 56 °F	Char. varying 4-14	Corr. 28.82 in.	ramos out to = 55°F

0700	1300	1900
Clds. ovc shallow.	Clds.	Clds.
Wx RW-F	Wx	Wx
Vis. 2 mi.	Vis. mi.	Vis. mi.

R.H.	24 hr. Mov.	Sea L.	3 hr. Tend.	Ppn. Liq.	Prev. Dir.	Ppn. Sol.	Snow Depth	Observer
90 %	69 mi.	30.13 in.	~0 mb	0.15 in.	ESE	0 in.	0 in.	MSS

$T_{roof} = 55°F$

$T_{dromes} = 42°F$

$T_w = NA$

HDD = 1

$\Sigma HDD = 3$

$\Sigma CDD = 30$

$\Sigma PCN = 0.67"$

$\bar{T} = 64°F$

MON. SEPT. 10, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 63 °F	Dir. W	Temp. 69 °F	PATCHY ci, CU ON RIDGES DISSIPATING GF PENN'S VALLEY RW- 0800 - 1000 LT OCNL RW RW - 1330 - 1530 LT OCNL RW RW 1930 - 2310 LT RW -- 2310 - 0100 LT (MBL)		
Min. 56 °F	Vel. 2 m.p.h.	Read. 28.92 in.			
Set 59 °F	Char. light	Corr. 28.80 in.	0700	1300	1900
R.H. 84 %	24 hr. Mov. 59 mi.	Sea L. 30.13 in.	Clds. 2/10	Clds.	Clds.
Ppn. Liq. .87 in.	Prev. Dir. S	3 hr. Tend. +1.5 mb	Wx MSTLY SUNNY	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JHM	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 60$ $T_{d\ RA...} = 55$ $T_W = NA$

$\bar{T} = 60$

$H_{DD} = 5$ $\Sigma_{HDD} = 8$

$\Sigma_{CDD} = 30$

$\Sigma_{PDN.} = 1.54"$

INTMITNT L-
1000 - 1800, 9m

Tues., Sept. 11, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 77 °F	Dir. –	Temp. 69 °F	FM - Fog causing partial obsc.		
Min. 59 °F	Vel. calm m.p.h.	Read. 29.02 in.			
Set 60 °F	Char. nearly calm (wind S 602)	Corr. 28.90 in.	Rained over night: 57		
			0700	1300	1900
R.H. 90 %	24 hr. Mov. 32.3 mi.	Sea L. 30.25 in.	Clds. 7/10 Fog Ci	Clds.	Clds.
Ppn. 0 Liq. in.	Prev. Dir. W	3 hr. Tend. /+1.0 mb	Wx Fog	Wx	Wx
Ppn. – Sol. in.	Snow Depth – in.	Observer ESP	Vis. 2 mi.	Vis. mi.	Vis. mi.

T_{mt}: 58

T_{grms}: 56

$\bar{T}$: 68

H_{80}: 0

εH_{80}: 8

C_{80}: 3

εC_{80}: 33

ε_{pcm}: 1.54

Wed September 12 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 79 °F	Dir. —	Temp. 70 °F			
Min. 60 °F	Vel. 0 m.p.h.	Read. 29.02 in.			
Set 65 °F	Char. calm	Corr. 28.90 in.	Ramos: 79, 62 DWPT 60s = 62		
			0700	1300	1900
R.H. Ramos 87 %	24 hr. Mov. 24 mi.	Sea L. 30.23 in.	Clds. 10/ Altocum Nuciform	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. S	3 hr. Tend. +1 — mb	Wx Hz 75 . fog . ove	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JcK	Vis. 1 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 64$ $\quad \bar{T} = 70$ $\quad \Sigma PCN_L = 1.54$

$T_w =$ —— $\quad HDD = 0$

$T_{d_{Ramos}} = 60$ $\quad \Sigma HDD = 8$

$CDD = 5$

$\Sigma CDD = 38$

THURS., SEPT 13, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 79 °F	Dir. –	Temp. 70° °F	• sfc vsby hier (~ ½ mi.) • RW- 1900-1910 LT 2040-2055 LT : THUNDER HEARD • RW- 2150-2155 LT CELL N OF SCE		
Min. 64 °F	Vel. 0 m.p.h.	Read. 29.04 in.			
Set 64 °F	Char. calm	Corr. 28.92 in.	0700	1300	1900
R.H. 100 %	24 hr. Mov. 34 mi.	Sea L. 30.23 in.	Clds. X	Clds.	Clds.
Ppn. Liq. 0.03 in.	Prev. Dir. S	3 hr. Tend. ✓+1 mb	Wx fog	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	Vis. 1/16 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 62°F$

$T_w = 62°F$

$T_i = 62°F$

$\bar{T} = 72°F$

$CDD = 7$

$\Sigma CDD = 45$

$\Sigma HDD = 8$

$\Sigma PCN = 1.57"$

Fri. September 14, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 79 °F	Dir. SW	Temp. 70 °F	• Mt. Nittany 1-st Bandy reside.		
Min. 63 °F	Vel. 1-7 m.p.h.	Read. 28.88 in.			
Set 64 °F	Char. Variable	Corr. 28.76 in.	• Ramos: 78, 61 ovnt lo: 61		
			0700	1300	1900
R.H. 90 %	24 hr. Mov. 66 mi.	Sea L. 30.08 in.	Clds. 10/10 STRATUS	Clds.	Clds.
Ppn. T in. Liq.	Prev. Dir. S	3 hr. Tend. -1 mb	Wx • DVL • FOG • HAZE	Wx	Wx
Ppn. 0 in. Sol.	Snow Depth 0 in.	Observer JCK	Vis. 2½ mi.	Vis. mi.	Vis. mi.

$T_{Roof} = 62$ $\quad \overline{T} = 71$ $\quad \Sigma P_{cpl} = 1.57"$

$T_w = 60$ $\quad HDD = 0$

$T_d = 59$ $\quad \Sigma_{HDD} = 8$

$CDD = 6$

$\Sigma_{CDD} = 51$

Sat. Sept. 15, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 70 °F	Dir. W	Temp. 69 °F	RW- 2105-2225 LT (Rain Vry Lgt) TRW- 2225-2245 LT (LTG ICCCG till 0130 LT) TRW+ 2245-2300 LT → Gust to 63 @ 2247 LT TRW- 2300-0130 LT .50" rain in 15 minutes 2245-2300 LT Presjump 3 mb in 5 min 2245-2250 LT Ramos event LO: NA due to outage (over)		
Min. 61 °F	Vel. 12 m.p.h.	Read. 28.51 in.			
Set 61 °F	Char. Gusting to 22	Corr. 28.39 in.	0700	1300	1900
R.H. 81 %	24 hr. Mov. NA mi.	Sea L. 29.68 in.	Clds. 9/10 Cu Sc Fc	Clds.	Clds.
Ppn. Liq. .76 in.	Prev. Dir. NA	3 hr. Tend. / +1.5 mb	Wx BKN	Wx	Wx
Ppn. Sol. – in.	Snow Depth – in.	Observer ESP	Vis. 25 mi.	Vis. mi.	Vis. mi.

[redacted]

T_{surv} : 61

Td_{surv} : 55

$\bar{T}$: 66

H_{Mag}: 0

ΣH_{Mag}: 8

C_{Mag}: 1

ΣC_{Mag}: [redacted] 52

Σ pcn: 233

Obs Cont:

Fropa ≈ 0300 LT

Cig rgd / Cufm E

[redacted]

SUNDAY, SEPT 16, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 65 °F	Dir. WSW	Temp. 72 °F	• valley fog & ridge-top stratocumulus lowering vsby • trace occurred 2015 LT, 15th		
Min. 52 °F	Vel. 4 m.p.h.	Read. 28.61 in.			
Set 52 °F	Char. light	Corr. 28.48 in.	0700	1300	1900
R.H. 93 %	24 hr. Mov. NA 68 mi.	Sea L. 29.79 in.	Clds. 2/10 • thin Stratus	Clds.	Clds.
Ppn. T in. Liq.	Prev. Dir. NAW	3 hr. Tend. ✓ + 3/4 mb	Wx mostly sunny	Wx	Wx
Ppn. 0 in. Sol.	Snow Depth 0 in.	Observer MSS	Vis. 6 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 51$ $T_{frame} = 47$

$T_{inst} = 50$

$T_o = 49$

HDD = 6

$\Sigma HDD = 14$

$\Sigma CDD = 52$

$\bar{T} = 59$

$\Sigma PCN = 2.33''$

MON. SEPT. 17, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 61 °F	Dir. NW	Temp. 73 °F	PRESRR CU LINES PARALLEL TUSSEY RIDGE AND SE R- 1215-1500 (RW+ 1430-45) TRW 1700-1800 (OCNL TRW+) LTGICCCCA ⅛" + HAIL		
Min. 44 °F	Vel. 8 m.p.h.	Read. 28.96 in.			
Set 44 °F	Char. G+012	Corr. 28.83 in.	0700	1300	1900
R.H. 78 %	24 hr. Mov. 55.3 mi.	Sea L. 30.20 in.	Clds. 1/10	Clds.	Clds.
Ppn. Liq. .46 in.	Prev. Dir. NW	3 hr. Tend. /+4.0 mb	Wx SUNNY & CRISP	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JHM	Vis. 20 mi.	Vis. mi.	Vis. mi.

$T_{ave} = 44$ $T_W = 41$ $T_d = 37.5$

$\bar{T} = 53$

$H_{DD} = 12$ $\Sigma_{HDD} = 26$

$\Sigma_{CDD} = 52$

$\Sigma_{PPN.} = 2.79''$

PRELIM History (cont.)
R--- 1800 - 2000 LT

Tues. Sept. 18, 1990 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. * 56 °F	Dir. W	Temp. 72 °F	Ptdy Lt. frost on golf course @ sunrise Distnt Ci SW *- Tied record min/max (also in 1903)
Min. 37 °F	Vel. 4 m.p.h.	Read. 29.16 in.	
Set 40 °F	Char. Steady	Corr. 2903 in.	Leaves out 40: 36
R.H. 86 %	24 hr. Mov. 98.4 mi.	Sea L. 30.44 in.	
Ppn. Liq. 0 in.	Prev. Dir. WNW	3 hr. Tend. /+1.1 mb	
Ppn. Sol. - in.	Snow Depth - in.	Observer ESP	

0700	1300	1900
Clds. 9/10	Clds.	Clds.
Wx CLR	Wx	Wx
Vis. 20 mi.	Vis. mi.	Vis. mi.

T_{roof}: 42

T_{wet}: 40

T_d: 38

$\bar{T}$: 47

H_{00}: 18

ξH_{00}: 44

$\xi_{L_{00}}$: 52

ξ_{pca} : 27"

Wed. September 19 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 61 °F	Dir. —	Temp. 74 °F	• AD 0635 LT		
Min. 40 °F	Vel. 0 m.p.h.	Read. 28.90 in.			
Set 47 °F	Char. Calm	Corr. 28.87 in.	• RAMS: 61, 39 Overnight Low: 44		
			0700	1300	1900
R.H. 86 %	24 hr. Mov. 33 mi.	Sea L. 30.14 in.	Clds. STRATUS 10/10 PARTIALLY OBSCURED	Clds.	Clds.
Ppn. T in. Liq.	Prev. Dir. W	3 hr. Tend. -1/2 mb	Wx • R- • THE LIGHTEST OF GROUND FOG	Wx	Wx
Ppn. 0 in. Sol.	Snow Depth 0 in.	Observer JCK	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{Adj} = 45$ $\quad \bar{F} = 51$ $\quad \Sigma PCN_A = 2.79$

$T_w = 43$ $\quad HDD = [redacted]14$

$T_d = 41$ $\quad \Sigma_{HDD} = 58$

$CDD = 0$

$\Sigma_{CDD} = 52$

THURSDAY, SEPTEMBER 20, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 58 °F	Dir. SW	Temp. 72 °F	• RW - 0845-0900 LT • L - 0900 - 0930 LT • RW - 1400 - 1445 LT • L - 1630 - 2000 LT • RW - 2350 - 2355 LT		OVERT LO= 50
Min. 47 °F	Vel. 4 m.p.h.	Read. 28.86 in.			
Set 51 °F	Char. light	Corr. 28.73 in.	0700	1300	1900
R.H. 86 %	24 hr. Mov. 50 mi.	Sea L. 30.03 in.	Clds. 8/10 - cirrus	Clds.	Clds.
Ppn. Liq. 0.20 in.	Prev. Dir. WSW	3 hr. Tend. / +1½ mb	Wx partly sunny	Wx	Wx
Ppn. — Sol. in.	Snow Depth — in.	Observer MSS	Vis. 3 v 10 mi. S E/W	Vis. mi.	Vis. mi.

$T_{roof} = 51$ $T_{trans} = 47$

$T_w = 49$

$T_d = 47$

additional cloud info

- nimbostrat SE-SW-NW-N
- few cu distant W
- some altostrat & altocu. E
- thin ci overhead

$HDD = 12$

$\bar{T} = 53$ $\Sigma HDD = 70$ $\Sigma CDD = 52$

$\Sigma PCN = 2.99"$

Fri: September 21 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 65 °F	Dir. S	Temp. 72 °F	*Leaves are beginning to hint of autumn
Min. 42 °F	Vel. 3 m.p.h.	Read. 29.00 in.	
Set 44 °F	Char. Light	Corr. 28.87 in.	Ranges: 64, 41 overt low = 41

0700	1300	1900
Clds. 7/10 · Cirrus · Altocumulus East	Clds.	Clds.
Wx · Hazy Sunny · Ground Fog	Wx	Wx
Vis. 30 mi.	Vis. mi.	Vis. mi.

R.H.	24 hr. Mov.	Sea L.	3 hr. Tend.
93 %	52 mi.	30.25 in.	+½ / mb

Ppn. Liq.	Prev. Dir.
0 in.	W

Ppn. Sol.	Snow Depth	Observer
0 in.	0 in.	JCK

$T_{avg} = 44$ $\quad \bar{T} = 54$ $\quad \Sigma_{RN_t} = 2.99"$

$T_m = 43$ $\quad HDD = 11$

$T_d = 42$ $\quad \Sigma_{HDD} = 91$

$CDD = 0$

$\Sigma_{CDD} = 52$

Sat. Sept. 22, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.	
Max.	68 °F	Dir.	—	Temp.	70 °F
Min.	44 °F	Vel.	calm m.p.h.	Read.	28.61 in.
Set	56 °F	Char.	Calm	Corr.	28.49 in.
R.H.	97 %	24 hr. Mov.	87.8 mi.	Sea L.	29.82 in.
Ppn. Liq.	.42 in.	Prev. Dir.	SE	3 hr. Tend.	— -0.0 mb
Ppn. Sol.	— in.	Snow Depth	— in.	Observer	ESP

General Obs.

R- 2330- 0500 LT
ocnl R 0100-0300 LT
L- 0730~ obs
Est Cig ~ 800ft → Ridgetops obsc
Chrgd - Stfra all quads
Romeo ovnt lo: 54

	0700	1300	1900
Clds.	10/10 St Stfra		
Wx	L-		
Vis.	6 mi.	mi.	mi.

T_{roof}: 59.5

T_{wall}: 59

T_d: 58.5

$\bar{T}$: 56

H_{00}: 9

εH_{00}: 90

εC_{00}: 52

ε_{pcm}: 3.41"

Sun., Sept 23, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 67 °F	Dir. SW	Temp. 72 °F	- stratocumulus ALQDS - darker N-NW - clouds moving quickly E - few frotocumulus N - nice crepuscular rays over mtns		
Min. 50 °F	Vel. 10 m.p.h.	Read. 28.53 in.			
Set 50 °F	Char. G22	Corr. 28.40 in.	0700	1300	1900
R.H. 74 %	24 hr. Mov. 117 mi.	Sea L. 29.68 in.	Clds. 9/10	Clds.	Clds.
Ppn. T Liq. in.	Prev. Dir. W	3 hr. Tend. ~ 0 mb	Wx mostly cloudy & breezy	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer MSS	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 47$ $T_{d_{roof}} = 40$

$T_{wet} = 43$

$T_{cl} = 39$ HDD = 6 ΣCDD = 52

ΣHDD = 96

$\bar{T} = 59$ ΣPCN = 3.41"

Thermograph Hi = 66

Trace occurrences

- L- obs
- L- 1145 LT - 1240 LT
- RW- 1240 LT (1 min.)

MON. SEPT. 24, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 56 °F	Dir. W	Temp. 72 °F	RW- 1200-1215 LT } .02" 1630-1700 LT } FEW RW- CURNT = .01"		
Min. 46 °F	Vel. 14 m.p.h.	Read. 28.83 in.			
Set 47 °F	Char. GTO 20	Corr. 28.70 in.	0700	1300	1900
R.H. 72 %	24 hr. Mov. 194 mi.	Sea L. 30.06 in.	Clds. 8/10 U	Clds.	Clds.
Ppn. Liq. .03 in.	Prev. Dir. W	3 hr. Tend. +2.0 mb	Wx MSTLY CLDY	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JHM	Vis. 25 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 45$ $T_w = 41$ $T_d = 36.5$

$T_{d\ max} = 37$

$T_{d\ min} = 40$

$\bar{T} = 51$

$H_{DD} = 14$ $\Sigma_{H_{DD}} = 1108$

$\Sigma_{C_{DD}} = 52$

$\Sigma_{ppn.} = 3.44"$

Tues. Sept. 25, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 57 °F	Dir. SW	Temp. 72 °F	Sundog NE		
Min. 46 °F	Vel. 8 m.p.h.	Read. 28.84 in.			
Set 47 °F	Char. Steady	Corr. 28.71 in.	Rams Over Co: 45		
			0700	1300	1900
R.H. 74 %	24 hr. Mov. 128.3 mi.	Sea L. 30.07 in.	Clds. 7/10 Ci Ac	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. WSW	3 hr. Tend. -/+0.4 mb	Wx BKN	Wx	Wx
Ppn. Sol. — in.	Snow Depth — in.	Observer ESP	Vis. 20 mi.	Vis. mi.	Vis. mi.

T_{roof}: 52

T_{wet}: 49

T_d: 44

$\bar{T}$: 52

M_{oo}: 13

ΣM_{oo}: 123

ΣC_{oo}: 52

Σ_{pcn}: 3.44

Wed. September 26 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 66 °F	Dir. SSE	Temp. 68 °F	· RW- 0500 - 0505 LT · OCNL LTGICCCG 0610 - 0650 · Thunder Began 0615 LTG moved NE · TRW - 0610 - 0640 · Ovnt low: 56 · Ranges: 65, 49		
Min. 47 °F	Vel. 3 m.p.h.	Read. 28.63 in.			
Set 56 °F	Char. Light + steady	Corr. 28.51 in.	0700	1300	1900
R.H. 62 %	24 hr. Mov. 106 mi.	Sea L. 29.84 in.	Clds. 9/ · [illegible] · Altocum /10 Stratocum	Clds.	Clds.
Ppn. Liq. .02 in.	Prev. Dir. SSW	3 hr. Tend. ±0 ⌒ mb	Wx m cloudy	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 25 mi.	Vis. mi.	Vis. mi.

$T_{Roof} = 56$ $\quad \bar{T} = 57$ $\quad \Sigma Prec_L = 3.46''$

$T_w = 49$ $\quad NDD = 8$

$T_L = 43$ $\quad \Sigma NDD = 131$

$CDD = 0$

$\Sigma CDD = 52$

Thursday, September 27, 1990 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 62 °F	Dir. —	Temp. 72 °F	• RW - 1147 - 1200 LT		
Min. 49 °F	Vel. 0 m.p.h.	Read. 28.94 in.			
Set 52 °F	Char. calm	Corr. 28.81 in.	0700	1300	1900
R.H. 93 %	24 hr. Mov. 21 mi.	Sea L. 30.11 in.	Clds. X	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. SSE	3 hr. Tend. /+2 mb	Wx fog	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MSS	Vis. 2 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 51$ $T_{d_{ramos}} = 47$

$T_{wet} = 50$

$T_d = 49$ $HDD = 9$ $\Sigma CDD = 52$

$\Sigma HDD = 140$

$\bar{T} = 56$ $\Sigma PCN = 3.46"$

Fri September 28 1990 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 67 °F	Dir. —	Temp. 72 °F	• Not much to see anywhere this am		
Min. 51 °F	Vel. 0 m.p.h.	Read. 29.04 in.			
Set 52 °F	Char. Calm	Corr. 28.91 in.			
R.H. 100 %	24 hr. Mov. 11 mi.	Sea L. 30.27 in.	0700	1300	1900
Ppn. Liq. 0 in.	Prev. Dir. NE	3 hr. Tend. +1½ / mb	Clds. X	Clds.	Clds.
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Wx • Fog	Wx	Wx
			Vis. 1/16 mi.	Vis. mi.	Vis. mi.

$T_{Roof} = 50$ $\quad \bar{T} = 59$ $\quad \Sigma_{DoN_L} = 3.46''$

$T_w = 50$ $\quad NDD = 6$

$T_d = 50$ $\quad \Sigma_{NDD} = 146$

$CDD = 0$

$\Sigma_{CDD} = 52$

Sat. September 29 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 72 °F	Dir. —	Temp. 69 °F	• over low 55		
Min. 52 °F	Vel. 0 m.p.h.	Read. 28.97 in.			
Set 55 °F	Char. Calm	Corr. 28.85 in.	0700	1300	1900
R.H. 93 %	24 hr. Mov. 16 mi.	Sea L. 30.19 in.	Clds. X	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. 5	3 hr. Tend. +1 / mb	Wx -Fog	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 1/16 mi.	Vis. mi.	Vis. mi.

$T_{Roof} = 53$ $\bar{T} = 62$ $\Sigma P_{RAIN_L} = 3.46''$

$T_w = 52$ $NDD = 3$

$T_d = 51$ $\Sigma_{NDD} = 149$

$CDD = 0$

$\Sigma_{CDD} = 52$

Sun., Sept 30, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 77 °F	Dir. SW	Temp. 70 °F	Trace occured 1500 LT · few strato cu. NE-E · Ovnt low = 63 · few BINOVC		
Min. 55 °F	Vel. 10 m.p.h.	Read. 28.80 in.			
Set 65 °F	Char. varying 6-18	Corr. 28.68 in.			
R.H. 75 %	24 hr. Mov. 62 mi.	Sea L. 29.98 in.	0700	1300	1900
Ppn. T Liq. in.	Prev. Dir. S	3 hr. Tend. — -1/2 mb	Clds. 10/10 · stratus	Clds.	Clds.
Ppn. — Sol. in.	Snow Depth — in.	Observer MSS	Wx foggy	Wx	Wx
			Vis. 5 mi.	Vis. mi.	Vis. mi.

$T_{max} = 63$ $T_{d_{max\ mthly}} = 53$ $\Sigma HDD = 0$ $CDD = 1$

$T_w = 58$ $\Sigma CDD = 53$

$T_d = 55$ $\Sigma PCN = 3.46$ "

$\bar{T} = 66$