University Park

SUN OCT 1, 1989 0700 EST

Temp.	Wind	Barom.	General Obs.
Max. 68 °F	Dir. SE	Temp. 72°	CLEAR OVERNIGHT, WENT OVERCAST WITHIN 0650-0730 LT PER 100
Min. 45 °F	Vel. — m.p.h.	Read. 28.97	
Set 46 °F	Char. CALM	Corr. 28.84	RAMOS OVNT 60:45c. 0700LT
R. H. 74 %	24 hr. Mov. 25.4 mi	Sea L. 30.22	
Ppn. Liq. — in.	Prev. Dir. SE	3 hr. Tend. +0.2 /	
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. ~~St~~ Sc 10/10	Clds.	Clds.
Wx OVC	Wx	Wx
Vis. 4F	Vis.	Vis.

$T_{ROOF} = 49$ $T_w = 45.5$ $T_o = 42$ $T_{D_{CWV}} = 43$

$\bar{T} = 57$

$HDD = 8$ $\quad CDD = 0$

$\Sigma_{HDD} = 8$ $\quad \Sigma_{CDD} = 0$

$\Sigma_{PCN} = 0$

MON. OCT 2, 1989 0700 EST

Meteorological Observations
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 64 °F	Dir. N	Temp. 78°	VIS. 1½ TO 5, SW IN HEAVY MTN. FOG
Min. 46 °F	Vel. 3 m.p.h.	Read. 28.68	OCNL L-- 1615~2030LT
Set 61 °F	Char. STEADY	Corr. 28.54	R, R- 2030~0200LT
R. H. 95 %	24 hr. Mov. 74.8mi	Sea L. 29.86	R-, OCNL R 0515-0800LT
Ppn. Liq. .33 in.	Prev. Dir. SE	3 hr. Tend. -.5 \	RAMOS OVNT LO: 59 C. 0900LT
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. 10/10 NS, St	Clds.	Clds.
Wx R-F	Wx	Wx
Vis. 1½ v. 6F	Vis.	Vis.

$T_{ROOF} = 60$ $T_{\omega} = 59$ $T_{0} = 58.5$ $T_{0_{UW}} = 57$

$\bar{T} = 55$

$HDD = 10$ $CDD = 0$

$\Sigma_{HDD} = 18$ $\Sigma_{CDD} = 0$

$\Sigma_{PCN} : .33''$

Meteorology Dept.
University Park, PA

Tues. Oct. 3, 1989 0700 EST

Temp.	Wind	Barom.	General Obs.
Max. 73 °F	Dir. W	Temp. 79	RW- 0300 - 0400 LT
Min. 57 °F	Vel. 12 m.p.h.	Read. 28.83	Fropa ~ 0300 LT
Set 57 °F	Char. Gusts to 18	Corr. 28.68	Binovc
R. H. 62 %	24 hr. Mov. 783 mi	Sea L. 30.01	Mtn. wave clouds E
Ppn. Liq. .04 in.	Prev. Dir. SW	3 hr. Tend. /+3.0 mb	Ranges: 71/55
Ppn. Sol. — in.	Snow Depth — in.	Observer ESP	

0700	1300	1900
Clds. 10/10 Sc	Clds.	Clds.
Wx OVC	Wx	Wx
Vis. 25 mi	Vis.	Vis.

T_{vert}: 61
T_0: 45
T_{ow}:

$\overline{T}$: 65

H_{00}: 0

ΣH_{00}: 18

Σ_{pen}: .37°

Meteorological [illegible]
University Park, Pa.

Wed. Oct 4 1989

0700 EST

General Obs.

Temp.	Wind	Barom.
Max. 57 °F	Dir. WNW	Temp. 72°
Min. 40 °F	Vel. 8-12 m.p.h.	Read. 28.78
Set 41 °F	Char. VAR.	Corr. 28.65
R. H. 55 %	24 hr. Mov. 180 mi.	Sea L. 30.02
Ppn. Liq. 0 in.	Prev. Dir. W	3 hr. Tend. +½ /
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK

· Ramos 56, 39

	0700	1300	1900
Clds.	2/10 · Lenticular · Some · Cumulus		
Wx	· Sunny		
Vis.	35 mi.		

$T_{Roof} = 42$

$T_w = 36$

$T_f = 27$

$\bar{T} = 49$

$NDD = 16$

$\Sigma_{NDD} = 34$

$CDD = 0$

$\Sigma_{CDD} = 0$

$\Sigma Precip. = .37''$

Meteorology
University Park, Pa.

Thurs. Oct 5, 1989 — 0700 EST

Temp.	Wind	Barom.	General Obs.
Max. 55 °F	Dir. W	Temp. 72	Few Ci SE Mtns GF E
Min. 41 °F	Vel. 10 m.p.h.	Read. 28.84	
Set 42 °F	Char. Steady	Corr. 28.71	Ramos: 53/41
R. H. 63 %	24 hr. Mov. 173.9 mi	Sea L. 30.08	
Ppn. Liq. 0 in.	Prev. Dir. W	3 hr. Tend. /+1.0mb	
Ppn. Sol. — in.	Snow Depth — in.	Observer ESP	

0700	1300	1900
Clds. 6/10	Clds.	Clds.
Wx CLR	Wx	Wx
Vis. 20 mi	Vis.	Vis.

T_U: 30

$\bar{T}_0$: 31

$\bar{T}$: 48

H_{0a}: 17

ΣH_{0a}: 51

ΣR_a: .37"

FRI. OCT 6, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 64 °F	Dir. SW	Temp. 74°	RW- ~0300-0400 LT RW- ~0615-0645 LT
Min. 42 °F	Vel. 14 m.p.h.	Read. 28.54	
Set 50 °F	Char. GUSTS TO 23	Corr. 28.41	RAMOS aVNT LO:49 c.0200LT
R. H. 68 %	24 hr. Mov. 122 mi	Sea L. 29.75	
Ppn. .01 Liq. in.	Prev. Dir. W	3 hr. Tend. +0.0 —	
Ppn. — Sol. in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. Sc. St 8/10	Clds.	Clds.
Wx MSTLY CLOUDY	Wx	Wx
Vis. 15 mi	Vis.	Vis.

$T_{ROOF} = 57$ $T_{\omega} = 51.5$ $T_{D} = 47$ $T_{D_{CNV}} = 47$

$\overline{T} = 53$

$HDD = 12$

$\Sigma_{HDD} = 63$

$\Sigma_{PCN} : .38''$

SAT. Oct 7 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 65 °F	Dir. W. NW	Temp. 72°	· RW - 2320 TO AT LEAST 2 0130 E
Min. 48 °F	Vel. 4 - 16 m.p.h.	Read. 28.66	
Set 48 °F	Char. Light variable	Corr. 28.53	· Ramos: 63, 47
R. H. 57 %	24 hr. Mov. 154 mi.	Sea L. 29.98	
Ppn. Liq. .02 in.	Prev. Dir. WSW	3 hr. Tend. +3	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	

0700	1300	1900
Clds. 6 scud 10 cum.	Clds.	Clds.
Wx · Mostly cl. · winds	Wx	Wx
Vis. 35 mi.	Vis.	Vis.

$T_{Roof} = 50$ $\bar{T} = 52$ Σ Precip. .40"

$T_w = 43$ HDD = 13

$T_d = 35$ Σ HDD = 76

CDD = 0

Σ CDD = 0

SUN OCT 8, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 53 °F	Dir. SW	Temp.	
Min. 41 °F	Vel. 4 m.p.h.	Read.	
Set 43 °F	Char. LIGHT	Corr.	
R. H. 71 %	24 hr. Mov. 131.6 mi	Sea L. 29.97	
Ppn. Liq. 0 in.	Prev. Dir. WNW	3 hr. Tend. -.06	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JEB	

. RAMOS Low 39

0700	1300	1900
Clds. 9/10	Clds.	Clds.
Wx CLDY	Wx	Wx
Vis. 15 mi	Vis.	Vis.

Σ PCN = .40"

HDD = 18

Σ HDD = 94

$\bar{T}$ = 47

MON. OCT. 9, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 43* °F	Dir. W	Temp. 68°	SCT STRATOCU ALRDS
Min. 34 °F	Vel. 8 m.p.h.	Read. 28.83	R, R - ~1030-1600 LT
Set 36 °F	Char. STEADY	Corr. 28.71	* RECORD MIN MAX!
R. H. 85 %	24 hr. Mov. 67.7 mi	Sea L. 30.10	RAMOS OVNT LO: 33 C, 0630 LT
Ppn. Liq. .12 in.	Prev. Dir. SW	3 hr. Tend. +2.0 /	
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. 2/10 Sc	Clds.	Clds.
Wx MOSTLY CLEAR	Wx	Wx
Vis. 18 mi	Vis.	Vis.

$T_{Roof} = 36.5$ $T_w = 34.5$ $T_0 = 32$ $T_{0_{UNV}} = 31$

$\bar{T} = 39$

HDD = 26

$\Sigma_{HDD} = 120$

$\Sigma_{PCU} : .52''$

Tues. Oct. 10, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.
Max. 49 °F		Dir. —	Temp. 68°F
Min. 32 °F		Vel. Calm m.p.h.	Read. 28.96
Set 32 °F		Char. Calm	Corr. 28.84
R. H. 85 %		24 hr. Mov. 46.1 mi	Sea L. 30.26
Ppn. 0 in.	Liq.	Prev. Dir. WNW	3 hr. Tend. L -0.5mb
Ppn. — in.	Sol.	Snow Depth — in.	Observer ESP

General Obs.

Widespread frost all areas
patchy GF NE, SW ≑ vsby 1¼ NE
First freeze since Apr. 25, 1989
contrails ovhd
Ramos: 50/31

0700	1300	1900
Clds. 1/10 Ci	Clds.	Clds.
Wx -SCT	Wx	Wx
Vis. 15 mi	Vis.	Vis.

Tref : 34

Tact : 31.5

Td : 30

To unv:

T: 41

Hbd: 24

ΣHbd: 144

Σpca : .52

Wed. Oct 11 1989 — 0700 EST — Meteorological Observatory, University Park, Pa.

Temp.	Wind	Barom.	General Obs.		
Max. 58 °F	Dir. WSW	Temp. 70°	• RW 1700 LT - 2230 LT • 30-35 mph Gusts 1730-45 LT (ML)		
Min. 32 °F	Vel. 7 m.p.h.	Read. 28.81			
Set 46 °F	Char. Steady	Corr. 28.69	• Rains: 55, 43		
			0700	1300	1900
R. H. 61 %	24 hr. Mov. 129 mi.	Sea L. 30.05	Clds. 2/10 Cumulus Altocum Alto Strat	Clds.	Clds.
Ppn. Liq. .15 in.	Prev. Dir. S	3 hr. Tend. +2½ /	Wx • Sunny	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 15 mi.	Vis.	Vis.

$T_{roof} = 48$ $\quad \bar{T} = 45$ $\quad \Sigma_{PCN.} = .67''$

$T_w = 42$ $\quad HDD = 20$

$T_d = 35$ $\quad \Sigma_{HDD} = 164$

$CDD = 0$

$\Sigma_{CDD} = 0$

Thurs. Oct. 12, 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 60 °F	Dir. –	Temp. 69	Ptchy GF all quads
Min. 37 °F	Vel. Calm m.p.h.	Read. 28.83	
Set 39 °F	Char. Calm	Corr. 28.71	Romos: 39/37
R. H. 76 %	24 hr. Mov. 63.3 mi	Sea L. 30.4	
Ppn. Liq. 0 in.	Prev. Dir. W	3 hr. Tend. -0.0 mb	
Ppn. Sol. – in.	Snow Depth – in.	Observer ESP	

0700	1300	1900
Clds. 0/10	Clds.	Clds.
Wx CLR	Wx	Wx
Vis. 12 mi	Vis.	Vis.

T_{roof}: 40

T_{wet}: 37

T_d: 33

$T_{d\ conv}$: 34

$\bar{T}$: 49

H_{dd}: 16

ΣH_{dd}: 190

ΣA_n : .67^

FRI OCT. 13, 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.		
Max. 75 °F	Dir. WSW	Temp. 74°	V. LGT FOG TOWARDS MTNS. DISTANT CI SW TO SE		
Min. 39 °F	Vel. 7 m.p.h.	Read. 28.87			
Set 50 °F	Char. STEADY	Corr. 28.74	RAMOS OVNT LO:54 C. 0400LT		
			0700	1300	1900
R. H. 78 %	24 hr. Mov. 94.7 mi	Sea L. 30.09	Clds. Ci 1/10	Clds.	Clds.
Ppn. — Liq. in.	Prev. Dir. SW	3 hr. Tend. +.8 ~	Wx CLEAR	Wx	Wx
Ppn. — Sol. in.	Snow Depth — in.	Observer MJL	Vis. 9F	Vis.	Vis.

$T_{ROOF} = 58$ $T_{\omega} = 54$ $T_{D} = 51$ $T_{D_{CONV}} = 51$

$\bar{T} = 57$ (HDD = 8)

$\Sigma_{HDD} = 188$

$\Sigma_{PCN} = .67''$

Sat. Oct 14 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 74 °F	Dir. —	Temp. 75°	· FROPA [illegible] . 1100 Z - 15H
Min. 46 °F	Vel. 0 m.p.h.	Read. 28.86	
Set 48 °F	Char. calm	Corr. 28.73	· Ramos: 73, 47
R. H. 64 %	24 hr. Mov. 63 mi	Sea L. 30.08	
Ppn. Liq. 0 in.	Prev. Dir. W	3 hr. Tend. +½ —	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	

0700	1300	1900
Clds. 10/10 stratus [illegible]	Clds.	Clds.
Wx · [illegible] · [illegible] fog	Wx	Wx
Vis. 17 mi.	Vis.	Vis.

$T_{max} = 53$ $\bar{T} = 60$ $\Sigma Pcp. = .67"$

$T_{min} = 47$ $HDD = 5$

$T_{ave} = 41$ $\Sigma HDD = 193$

$CDD = 0$

$\Sigma CDD = 0$

SUN OCT 15, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 74 °F	Dir. SW	Temp. 80°	SOME CONTRAILS TO NW
Min. 48 °F	Vel. 8 m.p.h.	Read. 28.78	
Set 60 °F	Char. STEADY	Corr. 28.63	RAMOS WNT LD: 62 c. 0105 CT
R. H. 71 %	24 hr. Mov. 69.3 mi	Sea L. 29.95	
Ppn. — Liq. in.	Prev. Dir. SW	3 hr. Tend. +1.2 /	
Ppn. — Sol. in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. 0/10	Clds.	Clds.
Wx CLEAR	Wx	Wx
Vis. 10F	Vis.	Vis.

$T_{ROOF} = 63$ $T_{\omega} = 57$ $T_{0} = 53.5$ $T_{D_{avg}} = 53$

$\bar{T} = 61$

$HDD = 4$

$\Sigma_{HDD} = 197$

$\Sigma_{PCW} : .67'$

MON. OCT 16, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 81 °F	Dir. SE	Temp. 78°	LGT. FOG NEAR MTNS.
Min. 51 °F	Vel. — m.p.h.	Read. 28.80	
Set 52 °F	Char. CALM	Corr. 28.66	RAMOS OVNT LO: 52 @ 0700 LT
R. H. 76 %	24 hr. Mov. 67.3 mi	Sea L. 30.01	
Ppn. Liq. — in.	Prev. Dir. SW	3 hr. Tend. +0 —	
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. 0/10	Clds.	Clds.
Wx CLEAR	Wx	Wx
Vis. 9F	Vis.	Vis.

$T_{Roof} = 55.5$ $T_{\omega} = 51.5$ $T_{0} = 48$ $T_{D_{CNV}} = 47$

$\bar{T} = 66$

$HDD = 0$ $CDD = 1$

$\Sigma_{HDD} = 197$ $\Sigma_{CDD} = 1$

$\Sigma_{PCN} : .67''$

Tue. Oct. 17, 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.
Max. 81 °F	Dir. SW	Temp. 82
Min. 52 °F	Vel. 8 m.p.h.	Read. 28.76
Set 63 °F	Char. Steady	Corr. 28.61
R. H. 90 %	24 hr. Mov. 93.5 mi	Sea L. 29.93
Ppn. Liq. .35 in.	Prev. Dir. SSW	3 hr. Tend. ↘ -.05 mb
Ppn. Sol. – in.	Snow Depth – in.	Observer ESP

General Obs.

R-B ~ 0600 LT TRW ~ 0300-0400 LT (local ?)

Fog, calm all quads

Rawins: 79/62

	0700	1300	1900
Clds.	10/10 NS Overcast		
Wx	R-F		
Vis.	3 mi		

T_{roof}: 64

T_{wall}: 62

T_{dl}: 61

$T_{\theta\ conv}$: 61

$\bar{T}$: 67

$H_{\theta\theta}$: 0

$\Sigma H_{\theta\theta}$: 197

$C_{\theta\theta}$: 2

$Sc_{\theta\theta}$: 3

Σ_{pen} : 1.02"

WED Oct 18 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.
Max. 69 °F	Dir. NNE	Temp. 75°
Min. 43 °F	Vel. 5 m.p.h.	Read. 28.85
Set 43 °F	Char. STEADY	Corr. 28.72
R. H. 86 %	24 hr. Mov. 71 mi	Sea L. 30.09
Ppn. Liq. .30 in.	Prev. Dir. SW → N	3 hr. Tend. +2½
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK

General Obs.

- Ridge tops obscured by clouds
- wind shift / FROPA ~ 1700 LT
- R- E, L- B ~ 0900 LT
- L- off + on throughout day
- R-, L- overnight

Ramos: 6843

0700	1300	1900
Clds. 10/10 LOW STRATUS	Clds.	Clds.
Wx - OVC - R-	Wx	Wx
Vis. 9 mi	Vis.	Vis.

$T_{roof} = 45$

$T_w = 43$

$T_d = 41$

$\bar{T} = 56$

$HDD = 9$

$\Sigma_{HDD} = 206$

$CDD = 0$

$\Sigma_{CDD} = 3$

$\Sigma_{PCN.} = 1.32"$

Thurs. Oct. 19, 1989 — 0700 EST — Meteorological Observatory, University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 47 °F	Dir. NE	Temp. 74	L-A ~ 2200 CT
Min. 37 °F	Vel. 12 m.p.h.	Read. 28.92	L-B, A-B ~ 0100 CT
Set 38 °F	Char. Gusts to 18	Corr. 28.79	R+ ~ 0300 - 0600 CT
R. H. 89 %	24 hr. Mov. 88.4 mi.	Sea L. 30.14	Cig ~ 200 ft - Ridges Obsc
Ppn. Liq. 1.27 in.	Prev. Dir. N	3 hr. Tend. L -1.5 mb	Drizzly
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer ESP	Rain 46 06

0700	1300	1900
Clds. 10/10 St	Clds.	Clds.
Wx L-F	Wx	Wx
Vis. 5mi (below cig)	Vis.	Vis.

[illegible]: [illegible]

Tuef: 37

Tcl: 35

Td mv:

$\bar{T}$: 42

v00: 23

Σv_{00}: 229

Σc_{00}: 3

$\Sigma An(c)$: 2.59°

FRI OCT 20, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 48 °F	Dir. WSW	Temp. 74°	L- 0800-0830 LT R,R- 0830-0900 LT L ~0930-1000 LT R 1000 LT - 1020 LT L- 1020 LT - 1130 LT → over R 1130 - 1200 LT RAMOS OVNT 20:39 @ 0900 LT
Min. 37 °F	Vel. 7 m.p.h.	Read. 28.58	
Set 42 °F	Char. STEADY	Corr. 28.45	
R. H. 93 %	24 hr. Mov. 98.3 mi	Sea L. 29.82	
Ppn. Liq. .77 in.	Prev. Dir. NE	3 hr. Tend. +30 ✓	
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

	0700	1300	1900
Clds.	Clds. 10/10 Ns	Clds.	Clds.
Wx	Wx R	Wx	Wx
Vis.	Vis. 6mi	Vis.	Vis.

$T_{ROOF} = 41$ $T_{\omega} = 40$ $T_D = 39$ $T_{D_{CW}} = 35$

$\bar{T} = 43$

HDD = 22

$\Sigma_{HDD} = \cancel{55}$ 246

$\Sigma_{CDD} = 3$

$\Sigma_{PCN} : 3.36''$

≈0.15"

R- 1430-1530LT
OCNL L,L- 1700-0500LT
R 0455-0800LT
TROUGH PASSAGE (occlusion) 0520LT

Meteorological Observatory
University Park, Pa.

Sat. Oct 21 1989 — 0700 EST

Temp.	Wind	Barom.	General Obs.
Max. 43 °F	Dir. SSW	Temp. 75°	• RAIN FELL YESTERDAY AT OBS TIME AND FOR A WHILE AFTERWARD (1 HR?)
Min. 32 °F	Vel. 7 m.p.h.	Read. 28.49	
Set 35 °F	Char. STEADY	Corr. 28.36	• RAINOS 40, 32
R. H. 64 %	24 hr. Mov. 129mi.	Sea L. 29.73	
Ppn. Liq. .10 in.	Prev. Dir. WSW	3 hr. Tend. -½ ~	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer TEK	

0700	1300	1900
Clds. 10/10 STRATOCUM	Clds.	Clds.
Wx • OVC	Wx	Wx
Vis. 15MI.	Vis.	Vis.

$T_{noon} = 37$ $\quad \bar{T} = 38$ $\quad \Sigma$ Jan. 3.46"

$T_w = 33$ $\quad$ HDD $= 27$

$T_d = 26$ $\quad \Sigma_{HDD} = 273$

CDD $= 0$

$\Sigma_{CDD} = 3$

SUN. OCT 22, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 43 °F	Dir. WNW	Temp. 73°	L-, SW- 0800-0830 LT
Min. 35 °F	Vel. 17 m.p.h.	Read. 28.84	SW-, SW— 0830-0945 LT
Set 43 °F	Char. VARIABLE GUSTY	Corr. 28.71	L- 1730-1830 LT
R. H. 60 %	24 hr. Mov. 203.2 mi	Sea L. 30.08	RW-- 2250-2310 LT (over)
Ppn. Liq. .02 in.	Prev. Dir. WSW	3 hr. Tend. +3.5 /	RW-- 0430-0515 LT
Ppn. Sol. T in.	Snow Depth — in.	Observer MJL	RAMOS CVNT 159 @ 2000-2200 LT

0700	1300	1900
Clds. 10/10 St Sc	Clds.	Clds.
Wx OVC	Wx	Wx
Vis. 20 mi	Vis.	Vis.

$T_{ROOF} = 44$ $T_{\omega} = 38.5$ $T_{0} = 31$ $T_{0_{CNV}} = 33$

$\bar{T} = 39$

$HDD = 26$

$\Sigma_{HDD} = 299$

$\Sigma_{COO} = 3$

Σ_{PCN}: 3.48"

- SMALL BREAKS IN OVC ALONG.
- VERY GUSTY OVNT. GUSTS TO AT LEAST 15.

MON OCT 23, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.		
Max. 59 °F	Dir. SE	Temp. 76°	LT. FOG NEAR RIDGES SCATTERED FROST PATCHES BREATH FOG VISIBLE CONTRAIL CLOUDS ALRDS SUN DOG TO SW AT OBS RAMOS OVNT LO: 34 C. 08 OCT		
Min. 33 °F	Vel. — m.p.h.	Read. 29.19			
Set 34 °F	Char. CALM	Corr. 29.05			
			0700	1300	1900
R. H. 76 %	24 hr. Mov. 126 mi	Sea L. 30.47	Clds. Ci 1/10	Clds.	Clds.
Ppn. Liq. — in.	Prev. Dir. W	3 hr. Tend. +1.5	Wx CLEAR	Wx	Wx
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	Vis. 20 mi	Vis.	Vis.

$\overline{T}_{ROOF} = 37$ $\overline{T}_{W} = 34$ $\overline{T}_{D} = 30$ $\overline{T}_{D_{UNV}} = 31$

$\overline{\overline{T}} = 46$

$HDD = 19$

$\Sigma_{HDD} = 318$ $\Sigma_{CDD} = 3$

$\Sigma_{PCN} : 3.48''$

Tues. Oct. 24, 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 67 °F	Dir. —	Temp. 74	GF N-E, SW contrails all quads sunclogs at obs.
Min. 34 °F	Vel. Calm m.p.h.	Read. 29.25	
Set 37 °F	Char. Steady	Corr. 29.12	
R. H. 70 %	24 hr. Mov. 52.1 mi	Sea L. 30.53	
Ppn. 0 Liq. in.	Prev. Dir. SSW	3 hr. Tend. /+0.7 mb	
Ppn. — Sol. in.	Snow Depth — in.	Observer GSP	

Remarks:

0700	1300	1900
Clds. 1/10 Ci	Clds.	Clds.
Wx -SCT	Wx	Wx
Vis. 20 mi	Vis.	Vis.

Tmed : 40

T_U : 36

T_D : 31

$\bar{T}$: 56

H_{dn}: 9

ΣH_{dn}: 327

ΣC_{dn}: 3

Σ_{pcm} (L): 348

Σ_{pcm} (S): T

Wed. Oct 25 1989 — 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.		
Max. 71 °F	Dir. —	Temp. 74°			
Min. 37 °F	Vel. 0 m.p.h.	Read. 29.14			
Set 44 °F	Char. calm	Corr. 29.01	- Ramos: 72, 44		
			0700	1300	1900
R. H. 68 %	24 hr. Mov. 14 mi.	Sea L. 30.38	Clds. 9/10 cirrus	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. SSE	3 hr. Tend. +1 /	Wx • [illegible] Sun. • Lt [illegible] [illegible]	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 15 mi.	Vis.	Vis.

$T_{normal} = 49$ $\bar{T} = 59$ $\Sigma_{Precip.} = 3.48''$

$T_w = 44$ $HDD = 6$

$T_d = 39$ $\Sigma_{HDD} = 333$

$CDD = 0$

$\Sigma_{CDD} = 3$

Thursday, Oct. 26, 1989 — 0700 EST — Meteorological Observatory, University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 70 °F	Dir. —	Temp. 76	GF all quads - Partial Obsc (F3) Tower visby 3 mi Dense F bank on golf course - visby ¼ mi. Rmks: 72/42
Min. 40 °F	Vel. Calm m.p.h.	Read. 29.24	
Set 42 °F	Char. Calm	Corr. 29.10	
R. H. 86 %	24 hr. Mov. 12.0 mi	Sea L. 30.50	
Ppn. 0 Liq. in.	Prev. Dir. Variable	3 hr. Tend. /+1.2mb	
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer ESP	

	0700	1300	1900
Clds.	Clds. 5/10 GF Ci	Clds.	Clds.
Wx	Wx GF	Wx	Wx
Vis.	Vis. 3/8 mi	Vis.	Vis.

T_{roof}: 44

T_{wr}: 42

T_{cl}: 40

$\bar{T}$: 55

U_{ag}: 10

ΣU_{ag}: 342

ΣC_{ag}: 3

ΣA_{cn} (C): 348°

ΣA_{cn} (B): T

FRI OCT 27, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 73 °F	Dir. ESE	Temp. 73°	HEAVY FOG ON GOLF COURSE AND FURTHER W/SW FOG ALQDS CONTRAILS ALQDS
Min. 41 °F	Vel. — m.p.h.	Read. 29.14	
Set 42 °F	Char. CALM	Corr. 29.01	RAMOS OVNT LO: 42 C. 0800LT
R. H. 72 %	24 hr. Mov. 9.9 mi.	Sea L. 30.42	
Ppn. — Liq. in.	Prev. Dir. SW	3 hr. Tend. +1.0	
Ppn. — Sol. in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. Ci 7/10	Clds.	Clds.
Wx PTLY CLDY	Wx	Wx
Vis. 6 V. ½ F	Vis.	Vis.

$T_{ROOF} = 46$ $T_{\omega} = 42$ $T_{D} = 37.5$ $T_{D_{UNV}} = \approx 42$

$\bar{T} = 58$

$HDD = 7$

$\Sigma_{HDD} = 350$ $\Sigma_{CDD} = 3$

$\Sigma_{PCN(\omega)} : 3.48''$

$\Sigma_{PCN(\bar{T})} : T$

Sat. Oct 28 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 72 °F	Dir. —	Temp. 71°	- Low layer of stratus fog on ground surface.
Min. 40 °F	Vel. 0 m.p.h.	Read. 29.07	
Set 40 °F	Char. CLEAR	Corr. 28.95	- RAMOS: 76, 42
R. H. 80 %	24 hr. Mov. 8 mi.	Sea L. 30.32	
Ppn. Liq. 0 in.	Prev. Dir. ENE	3 hr. Tend. +1 /	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	

0700	1300	1900
Clds. 0/10	Clds.	Clds.
Wx - Fog - Sunny	Wx	Wx
Vis. 3 mi.	Vis.	Vis.

$T_{Roof} = 47$ $\bar{T} = 56$ Σ Pan. = 3.48"

$T_w = 44$ NDD = 9

$T_d = 41$ $\Sigma_{NDD} = 359$

CDD = 0

$\Sigma_{CDD} = 3$

SUN OCT 29, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 74 °F	Dir. N	Temp. 70°	THICK FOG ALQDS.
Min. 40 °F	Vel. 2 m.p.h.	Read. 29.06	
Set 42 °F	Char. LIGHT	Corr. 28.94	RAMOS CONT LO: 42 C. 0700LT
R. H. 86 %	24 hr. Mov. 6.5 mi	Sea L. 30.33	
Ppn. Liq. — in.	Prev. Dir. E	3 hr. Tend. +.5 ~	
Ppn. Sol. — in.	Snow Depth — in.	Observer MJL	

0700	1300	1900
Clds. X	Clds.	Clds.
Wx FOG	Wx	Wx
Vis. Ø V. 1/16 F	Vis.	Vis.

$T_{ROOF} = 44.5$ $T_{\omega} = 43$ $T_D = 41.5$ $T_{D_{UW}} = 42$

$\bar{T} = 57$

$HDD = 8$

$\Sigma_{HDD} = 367$

$CDD = 9$

$\Sigma_{CDD} = 3$

$\Sigma_{PCN} : 3.48''$

MON. OCT. 30, 1989 0700 EST

Meteorological Observatory
University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 71 °F	Dir. W	Temp. 72°	THICK FOG LAYER WEST ON GOLF COURSE
Min. 41 °F	Vel. 1 m.p.h.	Read. 28.98	
Set 42 °F	Char. LIGHT	Corr. 28.85	RAMOS OVNT LD: 43 c.0800CT

0700	1300	1900
Clds. -X	Clds.	Clds.
Wx FOG	Wx	Wx
Vis. 2F	Vis.	Vis.

R. H. 76 %	24 hr. Mov. 29.7 mi	Sea L. 30.23	
Ppn. — Liq. in.	Prev. Dir. SE	3 hr. Tend. +.2 /	
Ppn. — Sol. in.	Snow Depth — in.	Observer MJL	

$T_{RCOP} = 47.5$ $T_{\omega} = 44.5$ $T_{D} = 41.5$

$T_{D_{WW}} = 39$

$\overline{T} = 56$

$HDD = 9$

$\Sigma_{HDD} = 376$ $\Sigma_{CDD} = 3$

$\Sigma_{PCN} : 3.48''$

Tues. Oct. 31, 1989 — 0700 EST — Meteorological Observatory, University Park, Pa.

Temp.	Wind	Barom.	General Obs.
Max. 71 °F	Dir. SE	Temp. 72	RW- 0330-0400 LT
Min. 42 °F	Vel. 7 m.p.h.	Read. 28.85	Fog all quads - densest SE-SW
Set 60 °F	Char. Steady	Corr. 28.72	Vsby 1/2 3
R. H. 70 %	24 hr. Mov. 77.9 mi	Sea L. 30.05	Thin spots in OVC ovhd
Ppn. Liq. .02 in.	Prev. Dir. SSE	3 hr. Tend. \-1.5mb	Record: 70(57)
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer ESP	

0700	1300	1900
Clds. Fog St 10/10 Ci	Clds.	Clds.
Wx Fog	Wx	Wx
Vis. 2V mi	Vis.	Vis.

T_{roof}: 61

T_{wall}: 58

T_{slab}: 56

T: 57

4_{Ab}: 8

$\Sigma_{H_{Ab}}$: 384

$\Sigma C_{Ab} = 3$

$\Sigma_{fcn}(i)$:

$\Sigma_{pcn}(s)$: