Tuesday, JANUARY 1, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 31 °F	Dir. SW	Temp. 70 °F	INTERMITTENT SW- ON THE MORNING OF THE 31ST		
Min. 17 °F	Vel. 2 m.p.h.	Read. 29.27 in.			
Set 19 °F	Char. -	Corr. 29.15 in.	0700	1300	1900
R.H. 75 %	24 hr. Mov. 72 mi.	Sea L. 30.03 in.	Clds. 0/10	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. +0.9 mb	Wx -	Wx	Wx
Ppn. Sol. T in.	Snow Depth T in.	Observer FJG	Vis. 20 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 19°F$ $Td_{Kamas} = 11°$ $Td_{CWV} = 14°F$

$\bar{T} = 24$

$H_{DD} = 41$

$\Sigma_{HDD} = 41$

$\Sigma_{PCW_L} = T$

$\Sigma_{PCW_S} = T$

Wed. Jan. 2, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 33 °F	Dir. SW	Temp. 72 °F	Patchy valley fog NE, SW Visby 2 mi NE - E		
Min. 18 °F	Vel. 9 m.p.h.	Read. 29.11 in.			
Set 21 °F	Char. Steady	Corr. 28.98 in.	0700	1300	1900
R.H. 94 %	24 hr. Mov. 78.2 mi.	Sea L. 30.44 in.	Clds. 0/10	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. SSW	3 hr. Tend. V +0.0 mb	Wx CLR	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth T in.	Observer ESP	Vis. 10 mi.	Vis. mi.	Vis. mi.

T_{room}: 19.5 $T_{d\,room}$: 15

T_{out}: 19

T_d: 19

$\bar{T}$: 26

H_{00}: 39

ΣH_{00}: 80

$\Sigma pcq_{(L)}$: T

$\Sigma pcq_{(S)}$ T

Thur. Jan 3, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 43 °F	Dir. W	Temp. 70 °F	OVRNT LO ~ 28°		
Min. 21 °F	Vel. 5 m.p.h.	Read. 29.02 in.			
Set 31 °F	Char. G10	Corr. 28.90 in.	0700	1300	1900
R.H. 72 %	24 hr. Mov. 40.6 mi.	Sea L. 30.30 in.	Clds. 10/10	Clds.	Clds.
Ppn. 0 Liq. in.	Prev. Dir. W	3 hr. Tend. +2 mb	Wx OVC	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth T in.	Observer JGM	Vis. 6 mi.	Vis. mi.	Vis. mi.

$T_{JFET} - 30 > 23$

$T_{AMBIENT} - 25$

$F = 32$

$H_{20} = 33$

$\Sigma_{HOT} = 113$

$\Sigma_{PCN_L} = T$

$\Sigma_{PCN_{SOL}} = T$

Fri. Jan. 4, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 32 °F	Dir. SW	Temp. 72 °F	Few SW-- throughout the day Only saw banks left on ground		
Min. 19 °F	Vel. 8 m.p.h.	Read. 29.26 in.			
Set 19 °F	Char. Steady	Corr. 29.13 in.	0700	1300	1900
R.H. 72 %	24 hr. Mov. 126.2 mi.	Sea L. 30.61 in.	Clds. 9/10 Sc	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. -1+1.0 mb	Wx BKN	Wx	Wx
Ppn. Sol. T in.	Snow Depth 0 in.	Observer ESP	Vis. 12 mi.	Vis. mi.	Vis. mi.

T_{roof} : [redacted] 18.5

T_w : 17

T_d : 11

$\bar{T}$: 26

H_{00}: 39

ΣH_{00}: 152

$\Sigma_{perm}(G)$: T

$\Sigma_{perm}(S)$: T

Sat. January 5 1991 — 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 30 °F	Dir. —	Temp. 73 °F	• Beautiful / SUNRISE on the underside of altocumulus over Tussey Ridge MIN T OCURD ~ 0230 LT, 5th		
Min. 17 °F	Vel. 0 m.p.h.	Read. 29.23 in.			
Set 22 °F	Char. Calm	Corr. 29.10 in.	0700	1300	1900
R.H. R 70 %	24 hr. Mov. 70 mi.	Sea L. 30.56 in.	Clds. 8/10 altocumulus	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. WSW	3 hr. Tend. $-\frac{1}{2}$ ╲╱ mb	Wx • Moderately • Ridge bases ≡	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer JCK	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{Avg\,L} = 20$ $\quad \bar{T} = 24$ $\quad \Sigma A_C N_L = T$

$T_w = —$ $\quad HDD = 41$ $\quad \Sigma P_C N_S = T$

$T_L = 10$ $\quad \Sigma HDD = 193$

Sun. Jan. 6, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 36 °F	Dir. —	Temp. 70 °F	S- 1415-1440 LT SP- 445-1706 LT (occ SP-) SR- 1600-1900 LT R- 1900-2100 LT L- 2100-0700 LT Ridges obsc. Cld Rpd PB No over LOW, MIN T occurd ~0730LST, SM		
Min. 20 °F	Vel. 0 m.p.h.	Read. 29.07 in.			
Set 36 °F	Char. Calm	Corr. 28.95 in.	0700	1300	1900
R.H. 96 %	24 hr. Mov. 61 mi.	Sea L. 30.36 in.	Clds. Fog (X) 10/10 St Ns	Clds.	Clds.
Ppn. Liq. .07 in.	Prev. Dir. SSW	3 hr. Tend. /+1.4 mb	Wx L-F	Wx	Wx
Ppn. Sol. T in.	Snow Depth 0 in.	Observer ESP	Vis. 1 mi.	Vis. mi.	Vis. mi.

T_{roof}: 37

T_w: 36.5

T_d: 36

$\bar{T}$: 28

H_{oo}: 37

ΣH_{oo}: 230

$\epsilon_{pcm}(L)$: .07

$\epsilon_{pcm}(S)$: ?

Mon. January 7 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 36 °F	Dir. NNE	Temp. 73 °F	• INTERMNT L- 0700-1500 • S-,R- 1500-1930 • INTERMNT L-, S-- OVNT • (.01 by 1500)
Min. 30 °F	Vel. 4-11 m.p.h.	Read. 29.24 in.	
Set 30 °F	Char. Varnbl	Corr. 29.11 in.	
R.H. R 70 %	24 hr. Mov. 30 mi.	Sea L. 30.55 in.	
Ppn. Liq. .02 in.	Prev. Dir. NNW	3 hr. Tend. +½ N mb	
Ppn. Sol. T in.	Snow Depth 0 in.	Observer JCK	

0700	1300	1900
Clds. 10/10 Overcast	Clds.	Clds.
Wx • OVC	Wx	Wx
Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{Avg'd} = 29$ $\bar{T} = 83$ $\Sigma PCN_L = .09$

$T_W = —$ $HDD = 32$ $\Sigma PCN_S = T$

$T_{d_A} = 19$ $\Sigma HDD = 262$

Tues. Jan. 8, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 31 °F	Dir. NE	Temp. 73 °F	Occl SW -- 0800 - 1200 LT		
Min. 13 °F	Vel. 6 m.p.h.	Read. 29.37 in.			
Set 13 °F	Char. Steady	Corr. 29.24 in.	0700	1300	1900
R.H. 80 %	24 hr. Mov. 51.1 mi.	Sea L. 30.74 in.	Clds. 7/10 Ci	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. NE	3 hr. Tend. ↓ 0.0 mb	Wx BKN	Wx	Wx
Ppn. Sol. T in.	Snow Depth 0 in.	Observer ESP	Vis. 10 mi.	Vis. mi.	Vis. mi.

T_{root}: 10
T_{wet}: 9.5
T_d: 5

$\bar{T}$: 22

H_{00}: 43

$\leq H_{00}$: 305

$\leq p_{cm}(6)$: .09

$\in p_{cm}(6)$: T

WED. JAN 9, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 27 °F	Dir. SW	Temp. 72 °F	MIN T OCURD ~ 0730 LT, 8th OCNL ZL- Before midnite (8th) OCNL S- After midnite (9th) TEMPS ~ CONSTANT OVRNITE		
Min. 12 °F	Vel. 3 m.p.h.	Read. 29.19 in.			
Set 27 °F	Char. light	Corr. 29.06 in.			
R.H. 92 %	24 hr. Mov. 40.3 mi.	Sea L. 30.49 in.	0700	1300	1900
Ppn. Liq. .02 in.	Prev. Dir. E	3 hr. Tend. -.5 mb	Clds. 10/10	Clds.	Clds.
Ppn. Sol. .2 in.	Snow Depth T in.	Observer JHM	Wx S-F	Wx	Wx
			Vis. 2½ mi.	Vis. mi.	Vis. mi.

$T_{ROOF} = 24$ $T_{d\ RANGE} = 20$ $T_{d\ MAX} = 24$

$\bar{T} = 20$

$H_{DD} = 45$

$\Sigma_{HDD} = 350$

$\Sigma_{PCN.(L)} = 0.11"$

$(S) = 0.2"$

Thurs. January 10 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 37 °F	Dir. WNW	Temp. 72 °F	• S-- 0700 - 0800 LT • ZL- 0800 - 1100 LT		
Min. 27 °F	Vel. 1-14 m.p.h.	Read. 29.31 in.			
Set 33 °F	Char. variable & gusty	Corr. 29.18 in.	• overt low: 33		
			0700	1300	1900
R.H. R 72 %	24 hr. Mov. 94 mi.	Sea L. 30.61 in.	Clds. 10/ STRATUS 10	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. +1 1/2 mb	Wx • OVC • RAIN/SNOW	Wx	Wx
Ppn. Sol. T in.	Snow Depth 0 in.	Observer JCK	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{max} = 81$ $\bar{T} = 32$ $\Sigma P_{CN_L} = 0.11''$

$T_w = —$ $HDD = 33$ $\Sigma P_{CN_S} = 0.2''$

$T_d = 22$ $\Sigma_{HDD} = 383$

Fri. Jan. 11, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 33 °F	Dir. E	Temp. 73 °F	S- 0800 - 0600 VSby 3/16 V 1/2 S 0600 - obs Occl St at ob. SNOINCR 1/3/3 at ob DRFTG SNW		
Min. 19 °F	Vel. 12 m.p.h.	Read. 29.27 in.			
Set 19 °F	Char. Gusting to 20	Corr. 29.14 in.	0700	1300	1900
R.H. 100 %	24 hr. Mov. 77.3 mi.	Sea L. 30.61 in.	Clds. X	Clds.	Clds.
Ppn. Liq. .29 in.	Prev. Dir. W→E	3 hr. Tend. \-2.0 mb	Wx SF	Wx	Wx
Ppn. Sol. 2.9 in.	Snow Depth 3 in.	Observer ESP	Vis. 1/4 mi.	Vis. mi.	Vis. mi.

T_{max}: 19 $\bar{T} = 26$

T_{min}: 19

T_d: 19

HDD: 39

ΣH_{obs}: 422

$\varepsilon_{pcn(w)}$: 0.40

$\varepsilon_{pcn(s)}$: 3.1

Saturday, January 12, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 28 °F	Dir. —	Temp. 72 °F	• min occured @ 0ბ5, 11th • slow temp rise overnight • large 24-hr pressure fall • precip summary on reverse		
Min. 19 °F	Vel. 0 m.p.h.	Read. 28.56 in.			
Set 28 °F	Char. calm	Corr. 28.43 in.	0700	1300	1900
R.H. 88 %	24 hr. Mov. 49 mi.	Sea L. 29.71 in.	Clds. X	Clds.	Clds.
Ppn. Liq. 0.49 in.	Prev. Dir. E → SW	3 hr. Tend. L -½ mb	Wx ZL-F	Wx	Wx
Ppn. Sol. 2.6 in.	Snow Depth 4 in.	Observer MSS	Vis. 1 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 25$

$T_{wet} = 24$

$T_d = 22$

$\bar{T} = 24$

HDD = 41

$\Sigma HDD = 463$

$\Sigma PCN_L = 0.89"$

$\Sigma PCN_S = 5.7"$

- S 0700 - 0830
- S - 0830 - 1330
- SG - 1000 - 1015
  1245 - 1600
- ZL - 1530 - 1650
- ID - 1650 - 2200
- ZR - 1700 - 1830
- ZL - 2200 - obs

all times local

- Gauge emptied 1415 LT:
  0.29" liq.
  2.4" solid

Sun. Jan. 13, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 35 °F	Dir. NW	Temp. 72 °F	ZL- 0700-0730 LT (12th) S-- 0600-0645 LT (13th)
Min. 23 °F	Vel. 17 m.p.h.	Read. 28.73 in.	Cig rgd Virga N Vsby NE 4mi
Set 23 °F	Char. Steady	Corr. 28.60 in.	

0700	1300	1900
Clds. 10/10 St	Clds.	Clds.
Wx FH	Wx	Wx
Vis. 2½ mi.	Vis. mi.	Vis. mi.

R.H.	24 hr. Mov.	Sea L.
73 %	148.7 mi.	30.18 in.
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. +2.0 mb
Ppn. Sol. T in.	Snow Depth 3 in.	Observer ESP

T_{roof}: 22

T_{mat}: 20.5

T_d: 15

$\bar{T}$: 29

H_{o_3}: 36

ΣH_{o_3}: 499

$\Sigma p_{cm(L)}$: 0.89"

$\Sigma p_{cm(S)}$: 5.7"

Monday, January 14, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 29 °F	Dir. SSW	Temp. 73 °F	• SW-- 0730 - 0830 • SW- 0830 - 1000 • min ocrd ~ 2100 LT, 13th
Min. 21 °F	Vel. 7 m.p.h.	Read. 28.85 in.	
Set 26 °F	Char. steady	Corr. 28.72 in.	

0700	1300	1900
Clds. 10/10 alto-stratus	Clds.	Clds.
Wx OVC	Wx	Wx
Vis. 12 mi.	Vis. mi.	Vis. mi.

R.H.	24 hr. Mov.	Sea L.
65 %	108 mi.	30.01 in.

Ppn. Liq.	Prev. Dir.	3 hr. Tend.
T in.	W	✓ 0 mb

Ppn. Sol.	Snow Depth	Observer
T in.	3 in.	MSS

$T_{roof} = 23$

$T_d = 13$

$HDD = 40$

$\Sigma HDD = 539$

$\Sigma PCN_L = 0.89"$

$T = 25$

$\Sigma PCN_S = 5.7"$

TUES. JAN 15, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 40 °F	Dir. —	Temp. 72 °F	STRONG LO LVL INVERSION SIGNFT HAZE LAYER RAMOS (ROOF) OVRNT LO = 29 CLDS: CICU OVRD, CISTR W+N CLR ALONG S HORIZN SW- 0715-0830 LT, 14th		
Min. 24 °F	Vel. 0 m.p.h.	Read. 28.95 in.			
Set 27 °F	Char. CALM	Corr. 28.82 in.			
			0700	1300	1900
R.H. 85 %	24 hr. Mov. 59.3 mi.	Sea L. 30.23 in.	Clds. 9/10	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. SW	3 hr. Tend. /+1.0 mb	Wx MSTLY CLDY	Wx	Wx
Ppn. Sol. T in.	Snow Depth 3 in.	Observer JHM	Vis. 8 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 29$ $T_d = 22$ $T_{d\ uncv} = 23$

$\bar{T} = 32$

$H_{DD} = 33$

$\Sigma H_{DD} = 572$

Σ_{pcp} (L) = 0.89"

(J) = 5.7"

Wed. Jan. 16, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 50 °F	Dir. —	Temp. 73 °F	R- 0330- 0635 Ocnl R at Obs PRESFR		
Min. 25 °F	Vel. 0 m.p.h.	Read. 28.67 in.			
Set 37 °F	Char. Calm	Corr. 28.54 in.	Ovnt Lo: 34 @ 2200 LT		
R.H. 100 %	24 hr. Mov. 30.9 mi.	Sea L. 29.92 in.	0700 Clds. X	1300 Clds.	1900 Clds.
Ppn. Liq. .37 in.	Prev. Dir. S	3 hr. Tend. \-3.6 mb	Wx R-F	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 2 in.	Observer ESP	Vis. 3/4 mi.	Vis. mi.	Vis. mi.

Troof: 38
Thur: 39
Fri: 38

Sat: 38

$\emptyset H_{oo}$: 27

ΣH_{oo} 599

Σ pcn(L): 1.26"

Σ pcn(S): 5.7"

THURSDAY, JANUARY 17, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 42 °F	Dir. WNW	Temp. 71 °F	•R- 0700-0930LT (.19")		
Min. 36 °F	Vel. 17 m.p.h.	Read. 28.53 in.	•RW 1815-1845LT (.14")		
Set 36 °F	Char. gusting to 26	Corr. 28.41 in.	0700	1300	1900
R.H. 70 %	24 hr. Mov. 78 mi.	Sea L. 29.70 in.	Clds. 10/10 Stratus	Clds.	Clds.
Ppn. Liq. 0.33 in.	Prev. Dir. W	3 hr. Tend. ✓ +2 mb	Wx ovc & windy	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth T in.	Observer MSS	Vis. 7 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 34$ HDD = 28 $\Sigma PCN_L = 1.59"$

$T_d = 25$ $\Sigma HDD = 625$ $\Sigma PCN_S = 5.7"$

$F = 39$

Fri. January 18 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 36 °F	Dir. WSW	Temp. 71 °F	• intermit SW-- all day [illegible] • S- [illegible]		
Min. 28 °F	Vel. 14-25 m.p.h.	Read. 28.77 in.			
Set 28 °F	Char. Variable	Corr. 28.65 in.	0700	1300	1900
R.H. 63 %	24 hr. Mov. 225 mi.	Sea L. 30.07 in.	Clds. 10/10 [illegible]	Clds.	Clds.
Ppn. Liq. .01 in.	Prev. Dir. W	3 hr. Tend. ± 0 mb	Wx • [illegible] • [illegible]	Wx	Wx
Ppn. Sol. .2 in.	Snow Depth T in.	Observer JCK	Vis. 8 m SW 20 m [illegible] mi.	Vis. mi.	Vis. mi.

$T_{roof} = 26$ $\bar{T} = 32$ $\Sigma Rain_L = 1.60"$

$T_w = —$ $HDD = 33$ $\Sigma Rain_S = 5.9"$

$T_d = 13$ $\Sigma HDD = 658$

SAT. JANUARY 19 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 34 °F	Dir. SW	Temp. 73 °F	• OCNL FLURRIES SNOW OBS YESTERDAY 1/18/91.		
Min. 27 °F	Vel. 10 m.p.h.	Read. 28.83 in.			
Set 32 °F	Char. Steady	Corr. 28.70 in.	• OVNT LOW ~ 30		
R.H. 72 %	24 hr. Mov. 254 mi.	Sea L. 30.11 in.	0700	1300	1900
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. -1/2 mb	Clds. 10/10 STRATUS	Clds.	Clds.
Ppn. Sol. T in.	Snow Depth T in.	Observer JCK	Wx • OVC • GLOOMY	Wx	Wx
			Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{daytime} = 29$ $\bar{T} = 31$ $\sum PCN_L = 1.60"$

$T_w = \text{---}$ $HDD = 34$ $\sum PCN_S = 5.9"$

$T_d = 21$ $\sum HDD = 692$

Sun. Jan. 20, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 45 °F	Dir. W	Temp. 71 °F	RW-- 2230-2300 Billows at obs - E-SE Only snow mounds remain Ovnt Lo: 34 @ 0600 LT
Min. 32 °F	Vel. 12 m.p.h.	Read. 28.46 in.	
Set 40 °F	Char. Steady	Corr. 28.34 in.	

R.H.	24 hr. Mov.	Sea L.	0700	1300	1900
55 %	133.3 mi.	29.62 in.	Clds. 8/10 Ac	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. SW	3 hr. Tend. L-1.0 mb	Wx BKN	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer ESP	Vis. 15 mi.	Vis. mi.	Vis. mi.

T_{max}: 41

T_{MIT}: 35

TA: 26

$\bar{T}$: 39

H_{RA}: 26

ΣH_{RA}: 718

$\Sigma pc_n(L)$: 1.60

$\Sigma pca(s)$: 5.9

MONDAY, JANUARY 21, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 42 °F	Dir. NE	Temp. 72 °F	• R- 1730-1800 LT 1925-0130 LT
Min. 27 °F	Vel. 11 m.p.h.	Read. 28.47 in.	• S- 0130- obs
Set 27 °F	Char. varying 6-16	Corr. 28.35 in.	• some nimbostratus ovhd

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

R.H.	24 hr. Mov.	Sea L.	
82 %	78 mi.	29.63 in.	
Ppn. Liq. 0.26 in.	Prev. Dir. NW	3 hr. Tend. /+3½ mb	
Ppn. Sol. 0.5 in.	Snow Depth 1 in.	Observer MSS	

$T_{roof} = 25$

$T_d = 20$

$\bar{T} = 35$

$HDD = 30$

$\Sigma HDD = 748$

$\Sigma CDD = 0$

$\Sigma PCN_L = 1.86''$

$\Sigma PCN_S = 6.4''$

Tuesday Jan 22 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 27 °F	Dir. NW	Temp. 72 °F	S- 0700 -0930 LT (.02" Liq, .3" Sol) SW- 1215 - 1310 LT MAX T OCURD @ 085, 21ST		
Min. 5 °F	Vel. 8 m.p.h.	Read. 28.84 in.			
Set 5 °F	Char. Stdy	Corr. 28.71 in.			
R.H. 85 %	24 hr. Mov. 104.6 mi.	Sea L. 30.20 in.	0700	1300	1900
Ppn. Liq. .03 in.	Prev. Dir. W	3 hr. Tend. 1+2 mb	Clds. Y10	Clds.	Clds.
Ppn. Sol. .5 in.	Snow Depth 1 in.	Observer SC	Wx Mstly Clr	Wx	Wx
			Vis. 25 mi.	Vis. mi.	Vis. mi.

$T_{ROOF} = 2$ $T_{d\ RANGE} = -2$ $T_{d\ MIN} = -1$

$\bar{T} = 16$

$HDD = 49$

$\Sigma HDD = 797$

$\Sigma PCN_L = 1.89"$

$\Sigma PCN_S = 6.9"$

Wed. Jan. 23, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 18 °F	Dir. W	Temp. 72 °F			
Min. 5 °F	Vel. 4 m.p.h.	Read. 28.82 in.			
Set 15 °F	Char. Steady	Corr. 28.69 in.	Ovar 4: 8 @ 2030LT		
R.H. 76 %	24 hr. Mov. 62.6 mi.	Sea L. 30.16 in.	0700 Clds. 7/10 As	1300 Clds.	1900 Clds.
Ppn. Liq. 0 in.	Prev. Dir. SW	3 hr. Tend. \ -0.9 mb	Wx BKN	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 1 in.	Observer ESP	Vis. 12 mi.	Vis. mi.	Vis. mi.

T_{roof} : 11

T_{gnd} : 0

runs: 4

$\bar{T}$: 12

H_{og}: 53

ΣH_{og}: 850

$\Sigma_{pcm}(s)$: 1.89°

$\varepsilon_{pcm}(s)$: 0.9°

Thurs. January 24 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 34 °F	Dir. WSW	Temp. 71 °F	• SW -- 1400 LT • 3 - 1800 LT - 2200 LT • OBSERVATIONS TAKEN 13Z • NO TRUE CUT low. SCT 2 low		
Min. 14 °F	Vel. 6-11 m.p.h.	Read. 28.82 in.			
Set 23 °F	Char. Hgly v.v.	Corr. 28.70 in.			
			0700	1300	1900
R.H. 57 %	24 hr. Mov. 196 mi.	Sea L. 30.14 in.	Clds. cirrus 1/10	Clds.	Clds.
Ppn. Liq. .01 in.	Prev. Dir. SW	3 hr. Tend. +1½ mb	Wx • haze • Rain	Wx	Wx
Ppn. Sol. .1 in.	Snow Depth 1 in.	Observer Jck	Vis. 30 mi.	Vis. mi.	Vis. mi.

$T_{max/n} = 21$ $\quad \overline{T} = 24$ $\quad \Sigma\, PCN_L = 1.90"$

$T_w = —$ $\quad$ MDD = 41 $\quad \Sigma\, DCN_S = 2.0"$

$T_d = 8$ $\quad \Sigma$ MDD = 891

MIN T OCURD ~ 0730 LT, 23rd

Fri January 25 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 28 °F	Dir. W	Temp. 71 °F			
Min. 8 °F	Vel. 7 m.p.h.	Read. 29.09 in.			
Set 9 °F	Char. Steady	Corr. 28.97 in.	0700	1300	1900
R.H. 76 %	24 hr. Mov. 182 mi.	Sea L. 30.47 in.	Clds. 7/10	Clds.	Clds.
Ppn. Liq. 0 in.	Prev. Dir. W	3 hr. Tend. +2 / mb	Wx	Wx	Wx
Ppn. Sol. 0 in.	Snow Depth 1 in.	Observer JK	Vis. 20 mi.	Vis. mi.	Vis. mi.

$T_{comp} = 7$ $F = 18$ $\Sigma Pwl_c = 1.90^{\prime\prime}$

$T_w = 0$ $NDB = 47$ $\Sigma Pwl_s = 2.0^{\prime\prime}$

$T_d = 1$ $\Sigma NDB = 938$

Sat. January 26 1991

0700 EST

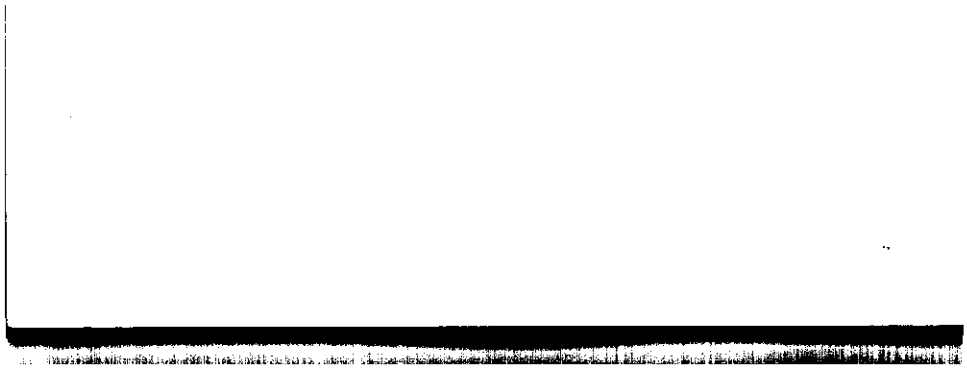
Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 22 °F	Dir. N	Temp. 72 °F	SW- 0735 LT - 0745 LT 25th MIN T OCURD ~ 0330 LT, 26th		
Min. 6 °F	Vel. 2-4 m.p.h.	Read. 29.05 in.			
Set 13 °F	Char. Steady	Corr. 28.92 in.	0700	1300	1900
R.H. 72 %	24 hr. Mov. 58.2 mi.	Sea L. 30.39 in.	Clds. 10/10	Clds.	Clds.
Ppn. Liq. T in.	Prev. Dir. W	3 hr. Tend. \ 2 mb	Wx OVRCAST	Wx	Wx
Ppn. Sol. T in.	Snow Depth 1 in.	Observer SC	Vis. 10 mi.	Vis. mi.	Vis. mi.

$T_{ROOF} = 11$ $\quad \overline{T} = 14$ $\quad \Sigma PCN_c = 1.90"$

$T_w =$ $\quad HDD = 51$ $\quad \Sigma PCN_s = 7.0"$

$T_d = 2$ $\quad \Sigma HDD = 989$



Sun. Jan 27, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 29 °F	Dir. SW	Temp. 72 °F	S- 1535 - 2200 LT (Local 0$ DRFTG SNW OVNT OVNT LO = 17 @ 0600 LT		
Min. 13 °F	Vel. 14 m.p.h.	Read. 28.84 in.			
Set 18 °F	Char. Steady	Corr. 28.71 in.	0700	1300	1900
R.H. 70 %	24 hr. Mov. 117.3 mi.	Sea L. 30.16 in.	Clds. 3/10 SC	Clds.	Clds.
Ppn. Liq. .05 in.	Prev. Dir. SW	3 hr. Tend. √+.10 mb	Wx SCT	Wx	Wx
Ppn. Sol. 0.8 in.	Snow Depth 1 in.	Observer ESP	Vis. 15 mi.	Vis. mi.	Vis. mi.

Proof: 16

y_d: 6

Td_{ave}: 8

$\bar{T}$: 21

H_{dg}: 44

ΣH_{dg}: 103 3

$\xi_{pcn}(c)$: 4.95"

$\xi_{pcn}(c)$: 7.8"

MON., JANUARY 28, 1991 — 0700 EST — Meteorological Observatory, University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 38 °F	Dir. NW	Temp. 72 °F	• BINOVC E • SW- 1030-1130 LT, 27th • ZL- 0430-0630 LT, 28th MAX T OCURD ~ 0000 LT, 28th		
Min. 18 °F	Vel. 4 m.p.h.	Read. 28.73 in.			
Set 33 °F	Char. light	Corr. 28.60 in.	0700	1300	1900
R.H. 75 %	24 hr. Mov. 155 mi.	Sea L. 29.89 in.	Clds. 10/10 • As • Sc	Clds.	Clds.
Ppn. Liq. 0.02 in.	Prev. Dir. S	3 hr. Tend. /+2 mb	Wx cloudy	Wx	Wx
Ppn. Sol. 0.1 in.	Snow Depth T in.	Observer MSS	Vis. 15 mi.	Vis. mi.	Vis. mi.

$T_{roof} = 32$

$T_{drums} = 25$

$F = \cancel{20}\ 28$

$HDD = \cancel{48}\ 37$

$\Sigma HDD = 1078$

$\Sigma PCN_L = 1.97"$

$\Sigma PCN_S = 7.9"$

TUES, JANUARY 29, 1991

0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.		
Max. 44 °F	Dir. N	Temp. 73 °F			
Min. 20 °F	Vel. 2 m.p.h.	Read. 28.98 in.			
Set 21 °F	Char. Light Steady	Corr. 28.85 in.	0700	1300	1900
R.H. 83 %	24 hr. Mov. 40.2 mi.	Sea L. 30.30 in.	Clds. 0/10 CLEAR	Clds.	Clds.
Ppn. Liq. 0.0 in.	Prev. Dir. SW	3 hr. Tend. /+1.5 mb	Wx CLEAR	Wx	Wx
Ppn. Sol. 0.0 in.	Snow Depth T in.	Observer SC	Vis. 30 mi.	Vis. mi.	Vis. mi.

$T_{ROOF} = 23$

$T_0 = 19$

$\bar{T} = 32$

$HDD = 33$

$\Sigma HDD = 1111$

$\Sigma PCN_L = 1.97"$

$\Sigma PCN_S = 7.9"$

Meteorological Observatory
University Park, PA

Wed. Jan. 30, 1991 — 0700 EST

Temp.	Wind	Barom.	General Obs.		
Max. 43 °F	Dir. —	Temp. 73 °F	R-- 0600 - obs Clrngd FEW cu/fra E, SW F2 OVRNITE LO = 34 @ 0600 LT		
Min. 21 °F	Vel. Calm m.p.h.	Read. 28.70 in.			
Set 37 °F	Char. Occ NE @ 3 mph	Corr. 28.57 in.	0700	1300	1900
R.H. 93 %	24 hr. Mov. 52.0 mi.	Sea L. 29.95 in.	Clds. -X OVC	Clds.	Clds.
Ppn. T Liq. in.	Prev. Dir. SW	3 hr. Tend. ✓ +0.0 mb	Wx R-F	Wx	Wx
Ppn. 0 Sol. in.	Snow Depth 0 in.	Observer ESP	Vis. 4 mi.	Vis. mi.	Vis. mi.

T_{max}: 39

T_{10}: 38

T_{90}: 37

$\bar{T}$: 32

K_{90}: 33

ΣK_{90}: 1144

$\xi_{pca}(L)$: 197

$\xi_{pca}(S)$: 7.9"

THURSDAY, JANUARY 31, 1991 0700 EST

Meteorological Observatory
University Park, PA

Temp.	Wind	Barom.	General Obs.
Max. 38 °F	Dir. W	Temp. 72 °F	• foggy SW • RW- 0700 - 0745 LT, 30th • R- 0950 - 1230 LT, 30th 1500 - 2000 LT, 30th • L- 1230 - 1500 LT, 30th cont'd.
Min. 21 °F	Vel. 25 m.p.h.	Read. 28.70 in.	
Set 21 °F	Char. gusts to 40	Corr. 28.57 in.	
R.H. 57 %	24 hr. Mov. 125 mi.	Sea L. 29.86 in.	
Ppn. Liq. 0.22 in.	Prev. Dir. W	3 hr. Tend. /+2½ mb	
Ppn. Sol. T in.	Snow Depth 0 in.	Observer MSS	

0700	1300	1900
Clds. 10/10 As Sc	Clds.	Clds.
Wx windy	Wx	Wx
Vis. 4 - 10 W E mi.	Vis. mi.	Vis. mi.

$T_{roof} = 23$

$T_{dewpoint} = 10$

$T = 30$

$HDD = 35$

$\Sigma HDD = 1179$

$\Sigma PCP_L = 2.19"$

$\Sigma PCP_S = 7.9"$

...cont'd from obverse

SW- 0630-obs

PRSWP ~ 2015 LT

Gauge emptied @ 1300 LT L=0.08

THUNDER HEARD ~ 1200 LT (SW- obs)