

Sat. Dec. 1, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	40 °F	Dir. W	Temp. 72 °F			
Min.	24 °F	Vel. 4 m.p.h.	Read. 29.09 in.			
Set	24 °F	Char. Steady	Corr. 28.96 in.	0700	1300	1900
R.H.	51 %	24 hr. Mov. 85.2 mi.	Sea L. 30.40 in.	Clds. 40 Cs St	Clds.	Clds.
Ppn.	0 in.	Prev. Dir. WSW	3 hr. Tend. +0.1 mb	Wx SCT	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer ESP	Vis. 25 mi.	Vis. mi.	Vis. mi.

T_{max} : 30

T_{0} : 25

T_d : 14

\bar{T} : 32

t_{90} : 33

Σt_{90} : 33

$E_{pen}(U)$: 0

$\Sigma pen(S)$: 0

Sunday, December 2, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.							
Max.	51 °F	Dir.	WSW	Temp.	72 °F	Mount 6: 39 @ 2315 LT, 1st							
Min.	24 °F	Vel.	9 m.p.h.	Read.	29.11 in.								
Set	46 °F	Char.	steady	Corr.	28.98 in.								
R.H.	40 %	24 hr. Mov.	99 mi.	Sea L.	30.29 in.	Clds.	0/10 altstratus	Clds.		Clds.			
Ppn.	0 in.	Prev. Dir.	S	3 hr. Tend.	+1.5 mb	Wx	OVC	Wx		Wx			
Ppn.	0 in.	Sol.	0 in.	Snow Depth	0 in.	Observer	MSS	Vis.	15 mi.	Vis.		Vis.	

$$T_{\text{roof}} = 44$$

$$T_{\text{wet}} = 35.5$$

$$T_d = 21$$

$$\bar{T} = 38$$

$$HDD = 27$$

$$\Sigma HDD = 60 \quad \Sigma CPD = 0$$

$$\Sigma PCN_1 = 0$$

$$\Sigma PCN_2 = 0$$

MON. DEC 3, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 48 °F	Dir. E	Temp. 73 °F	IP-B ~ 0350 LT S-B ~ 0430 LT E ~ 0600 LT PRESFR (ZR-OBSVD IN JOURNAL)			
Min. 32 °F	Vel. 9 m.p.h.	Read. 29.14 in.				
Set 32 °F	Char. GUSTS TO 18	Corr. 29.01 in.	0700	1300	1900	
R.H. 78 %	24 hr. Mov. 72 mi.	Sea L. 30.36 in.	Clds. 10/10	Clds.	Clds.	
Ppn. Liq. .02 in.	Prev. Dir. NE	3 hr. Tend. -2.5 mb	Wx IP-/R-	Wx	Wx	
Ppn. Sol. T in.	Snow Depth T in.	Observer JHM	Vis. 8 mi.	Vis. mi.	Vis. mi.	

$$T_{\text{roof}} = 31 \quad T_{\text{d rama}} = 22.5$$

$$T_{\text{d unv}} = 26$$

$$\bar{T} = 40$$

$$H_{00} = 25$$

$$\sum H_{00} = 85$$

$$\sum \text{PIN}(L) = .02''$$

$$(S) = T$$

Tues. Dec 4, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 52 °F	Dir. W	Temp. 72 °F	* New record precip. (old record 1.46 in 1900)			
Min. 32 °F	Vel. 15 m.p.h.	Read. 28.60 in.	Winfrpa: 2100 LT Gust to 50 mph ≈ 0030 LT Cd-Prpa: 0130 LT			
Set 41 °F	Char. Gust to 25	Corr. 28.47 in.	Over Hi: occurred ≈ 0130 LT (over)			
R.H. 76 %	24 hr. Mov. 84.0 mi.	Sea L. 29.85 in.	Clds. 10/10 SC	Clds.	Clds.	
Ppn. Liq. 1.67 in.	Prev. Dir. E → SW	3 hr. Tend. √ +2.0 mb	Wx Fog	Wx	Wx	
Ppn. Sol. 1.1 in.	Snow Depth 0 in.	Observer ESP	Vis. 5 mi.	Vis. mi.	Vis. mi.	

Temp: 40

Hum: 27

TD: 23

\bar{T} : 42

Hum: 23

Stba: 113

Σ prec(i): 1.69"

Σ prec(s): 1.1"

Precip History: (all mos local)

ZR- 0700-0745
1200-1300

IP- 0700-1200 (local IP)

S- 0745-1245 (local S, wet snow)

R- 1200-2000 (local R)

L- 1600-1830
2000-0630

RW 0215-0415 (local RW)

Wed. December 5 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 40 °F	Dir. W	Temp. 71 °F	• a few flakes or so snow. • SW - 1145-1200 • gusts to Mid 40s 1450-1500 • gusts to / mostly PM 1530-1545 • bulk of snow 1810-1820 • scattered snow • S - 2000 -			
Min. 23 °F	Vel. 17-21 m.p.h.	Read. 28.83 in.				
Set 27 °F	Char. variable	Corr. 28.71 in.	0700	1300	1900	
R.H. <i>Hum</i> 54 %	24 hr. Mov. 302 mi.	Sea L. 30.15 in.	Clds. 10/10	Clds.	Clds.	
Ppn. Liq. .03 in.	Prev. Dir. W	3 hr. Tend. +2.2 / mb	Wx • SW - • windy	Wx	Wx	
Ppn. Sol. .6 in.	Snow Depth T in.	Observer JCK	Vis. 25 mi.	Vis. mi.	Vis. mi.	

$$T_{avg} = 22 \quad \bar{T} = 32 \quad \sum \Delta W_s = 1.92''$$

$$T_w = - \quad MOD = 33 \quad \sum \Delta W_s = 1.7''$$

$$T_d = 8 \quad \sum MOD = 146$$

$$MOD = 0$$

$$\sum MOD = 0$$

"Flurry" (Low MOD)
OUTLET
S/N 003

THURSDAY, DECEMBER 6, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 34 °F	Dir. WSW	Temp. 70 °F	• yesterday's max = 29 • overnight low = 24 • temps began to rise during early morning • SW - 0820-1000 LT 1445-1500 LT			
Min. 24 °F	Vel. 8 m.p.h.	Read. 28.73 in.				
Set 34 °F	Char. gusts to 18	Corr. 28.61 in.	0700	1300	1900	
R.H. 47 %	24 hr. Mov. 186 mi.	Sea L. 29.91 in.	Clds. 5/10 - cirrus - altostratus	Clds.	Clds.	
Ppn. T in.	Liq. in.	Prev. Dir. W	3 hr. Tend. -1 mb	Wx partly cloudy	Wx	Wx
Ppn. T in.	Sol. in.	Snow Depth T in.	Observer MSS	Vis. 25 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 32$$

$$T_d = 14$$

$$F = 29$$

$$HDD = 36$$

$$\Sigma HDD = 182$$

$$\Sigma CDD = 0$$

$$\Sigma PCN_L = 1.72''$$

$$\Sigma PCN_S = 1.7''$$

Fri: December 7 1979 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 41 °F	Dir. —	Temp. 70 °F	* Snow soil around in the form of patches.			
Min. 33 °F	Vel. 0 m.p.h.	Read. 28.91 in.				
Set 34 °F	Char. Calm	Corr. 28.79 in.				
R.H. R 78 %	24 hr. Mov. 82 mi.	Sea L. 30.20 in.	Clds. 10/10	Clds.	Clds.	
Ppn. Liq. 0 in.	Prev. Dir. WSW	3 hr. Tend. +1 1/2 mb	Wx OVC	Wx	Wx	
Ppn. Sol. 0 in.	Snow Depth T in.	Observer JEK	Vis. 12 mi.	Vis. mi.	Vis. mi.	

$$T_{avg} = 32$$

$$T_u = -$$

$$T_d = 25$$

$$\bar{T} = 37$$

$$N_{AD} = 28$$

$$\Sigma N_{AD} = 210$$

$$CO_2 = 0$$

$$\Sigma CO_2 = 0$$

$$\Sigma K_{AD} = 1.72''$$

$$\Sigma P_{AD} = 1.7''$$

$T_{ref}: 26$

$T_w: 26$

$T_d: 26$

$\bar{T}: 23$

$H_{a0}: 22$

$\Sigma H_{a0}: 242$

$\Sigma p_{ra}(L): 1.72''$

$\Sigma p_{ra}(S): 1.7''$

SUNDAY, DECEMBER 9, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.			
Max. 45 °F	Dir. WNW	Temp. 71 °F	*min occ'd just after obs, 8 th *overnite low = 34						
Min. 24 °F	Vel. 4 m.p.h.	Read. 28.97 in.							
Set 34 °F	Char. light	Corr. 28.85 in.							
R.H. 72 %	24 hr. Mov. 89 mi.	Sea L. 30.16 in.	Clds. 4/10 stratus	Clds.	Clds.	0700	1300	1900	
Ppn. 0 in.	Liq. in.	Prev. Dir. W	3 hr. Tend. ✓ +1 ³ / ₄ mb	Wx partly cloudy	Wx	Wx			
Ppn. 0 in.	Sol. in.	Snow Depth 0 in.	Observer MSS	Vis. 15 mi.	Vis. mi.	Vis. mi.			

$$T_{\text{roof}} = 32 \quad T_{\text{d, max}} = 22$$

$$T_w = 29$$

$$T_d = 24$$

$$HDD = 30$$

$$\sum HDD = 272 \quad \sum CDD = 0$$

$$\sum PCN_L = 1.72''$$

$$\sum PCN_S = 1.7''$$

$$\bar{T} = 35$$

Mon. Dec. 10. 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.			
Max.	45 °F	Dir.	W	Temp.	71 °F				
Min.	33 °F	Vel.	15 m.p.h.	Read.	28.74 in.	MIN T OGRD ~ 0800 LT, 9th			
Set	42 °F	Char.	Steady	Corr.	28.62 in.	(35) Omt Lo _a occurred: ~ 2000 LT			
R.H.	62 %	24 hr. Mov.	178.2 mi.	Sea L.	30.00 in.	Clds.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	WSW	3 hr. Tend.	-0.2 mb	Clds.	7/10 ST		
Ppn.	0 in.	Snow Depth	0 in.	Observer	ESP	Wx	BKN		
						Vis.	10 mi.		

T_{root}: 43

T_{up}: 38

T_d: 31

\bar{T} : 39

H_{dd}: 26

E_{H_{dd}}: 298

E_{K_n(4)}: 1.72

E_{K_n(3)}: 1.7

TUES. DEC. 11, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 46 °F	Dir. WSW	Temp. 71 °F	BINOC E (cist, cicu)			
Min. 25 °F	Vel. 3 m.p.h.	Read. 29.06 in.				
Set 27 °F	Char. light	Corr. 28.93 in.	0700	1300	1900	
R.H. 63 %	24 hr. Mov. 164 mi.	Sea L. 30.34 in.	Clds. 10/10	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. NW	3 hr. Tend. √+1.2mb	Wx CLDY	Wx	Wx
Ppn. 0 in.	Sol. in.	Snow Depth 0 in.	Observer JHM	Vis. 25 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 25 \quad T_{\text{d rains}} = 10.5$$

$$T_{\text{d snow}} = 17$$

$$\bar{T} = 36$$

$$H_{\text{DO}} = 29$$

$$\sum H_{\text{DO}} = 327$$

$$\sum \text{ppm. (L)} = 1.72''$$

$$(S) = 1.7''$$

Wed. December 12 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.			
Max.	37 °F	Dir.	—	Temp.	72 °F	• SW - - 1315 - 25 LT (From Flakes)			
Min.	22 °F	Vel.	0 m.p.h.	Read.	28.88 in.				
Set	26 °F	Char.	Calm	Corr.	28.75 in.				
R.H.	67 %	24 hr. Mov.	15 mi.	Sea L.	30.18 in.	Clds.	0700	1300	1900
Ppn.	7 in.	Prev. Dir.	S	3 hr. Tend.	-0 — mb	Clds.	%	Wx	Wx
Ppn.	7 in.	Snow Depth	0 in.	Observer	Jek	Wx	• 610ms • 200ms • 200ms	Wx	Wx
						Vis.	25 mi.	Vis.	mi.
						Vis.		mi.	mi.

$$\begin{array}{lll} T_{\text{roof}} = 24 & \bar{T} = 30 & \sum P_{\text{roof}} = 1.72'' \\ T_u = - & NDA = 35 & \sum P_{\text{NDA}} = 1.7'' \\ T_d = 13 & \sum HDA = 362 & \\ & \text{CDA} = 0 & \\ & \sum \text{CDA} = 0 & \end{array}$$

Tuurs., DECEMBER 13, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	53 °F	Dir.	SW	Temp.	74 °F	• min acrd ~ 0800LT, 12 th • max acrd @ obs, 13 th • diurnal: 45 ~ 1400LT 33 ~ 2200LT		
Min.	24 °F	Vel.	12 m.p.h.	Read.	28.60 in.			
Set	53 °F	Char.	gusts to 18	Corr.	28.47 in.			
R.H.	52 %	24 hr. Mov.	45 mi.	Sea L.	29.75 in.	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	SW	3 hr. Tend.	-0.8 mb	Clds. 10/10 stratus	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	MSS	Wx overcast	Wx	Wx
						Vis. 20 mi.	Vis. mi.	Vis. mi.

$$T_{\text{roof}} = 50 \quad T_{\text{atmos}} = 32$$

$$T_{\text{wet}} = 42.5$$

$$T_d = 33$$

$$\bar{T} = 39$$

$$\text{HDD} = 26$$

$$\sum \text{HDD} = 386$$

$$\sum \text{PCN}_L = 1.72''$$

$$\sum \text{PCN}_S = 1.7''$$

$$\sum \text{CDD} = 0$$

Fri. December 14 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	54 °F	Dir.	N	Temp.	72 °F	RW-- 1020-1115 (RAINF) - Rain on north 1020-1030		
Min.	25 °F	Vel.	4 m.p.h.	Read.	29.20 in.			
Set	25 °F	Char.	Steady	Corr.	28.90 in.			
R.H.	63 %	24 hr. Mov.	230 mi.	Sea L.	30.34 in.	0700	1300	1900
Ppn.	.03 in.	Prev. Dir.	W	3 hr. Tend.	+3 / mb	Clds.	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	JCK	Wx	Wx	Wx
						Vis.	Vis.	Vis.
						30 mi.	mi.	mi.

$$\begin{array}{lll} T_{\text{maj}} = 24 & \bar{T} = 40 & \sum PCN_L = 1.75'' \\ T_v = - & HDB = 25 & \sum PCN_S = 1.7'' \\ T_d = 11 & \sum HDB = 411 & \end{array}$$

Sat. December 15 1970

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 35 °F	Dir. S	Temp. 75 °F		PRSR ZR - 0555 - 0635 LT		
Min. 23 °F	Vel. 10 m.p.h.	Read. 28.97 in.		ZL - IP - 0635 - 0640 (P.M. 4-4)		
Set 31 °F	Char. G15	Corr. 28.83 in.		ZR - 0640 - 0800 LT MINT OCRY ~ 0800 LT, 14 th PVRNT LO ~ 29		
R.H. 68 %	24 hr. Mov. 63.9 mi.	Sea L. 30.24 in.		0700	1300	1900
Ppn. T in.	Liq. S	Prev. Dir. S	3 hr. Tend. 1-3.0 mb	Clds. 10/10	Wx	Wx
Ppn. T in.	Sol. 0 in.	Snow Depth 0 in.	Observer JGM	Wx ZR-	Vis. 7-15 mi. W E	Vis. mi.

$$T_{roof} = 28$$

$$T_{drcms} = 18.7$$

$$T_{dunv} = 25$$

$$T_w = -$$

$$\bar{T} = 29$$

$$HDD = 36$$

$$\Sigma HDD = 447$$

$$\Sigma PCN_L = 1.75''$$

$$\Sigma PCN_S = 1.7''$$

Sun. December 16 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.	General Obs.		
Max.	41 °F	Dir.	W	Temp.	• ER - 085 - 1130 LT (DOWN DR) • IR - 0920 - 1015 LT (DOWN IR) SUBTOTAL — .1" solid RW 2330-0000 LT = .04" (WCD) FROPA (FRJMP) MAX T OGRD POST-FROPA ~ 0100 LT.		
Min.	31 °F	Vel.	6-42 m.p.h.	Read.	28.74 in.		
Set	39 °F	Char.	gusty and highly var.	Corr.	28.61 in.		
R.H.	65 %	24 hr. Mov.	109 mi.	Sea L.	29.99 in.		
Ppn.	.43 in.	Prev. Dir.	WSW	3 hr. Tend.	+2 / mb		
Ppn.	.1 in.	Snow Depth	0 in.	Observer	JFK		
				Vis.	20 mi.		

$$T_{\text{air}} = 38 \quad \bar{T} = 36 \quad \sum \rho L N_L = 2.18''$$

$$T_w = \text{---} \quad \text{HDD} = 29 \quad \sum \rho L N_S = 1.8''$$

$$T_d = 26 \quad \sum \text{HDD} = 476$$

SEVERAL REAKTS
OF THUNDER
HEARD LOCALY ~ 0000 LT

Mon. December 17, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.	General Obs.		
Max.	39 °F	Dir.	Calm	Temp.	6-1555-1615 LT		
				73 °F			
Min.	33 °F	Vel.	0 m.p.h.	Read.			
				29.00 in.			
Set	34 °F	Char.	Calm	Corr.			
				28.87 in.	0700	1300	1900
R.H.	72 %	24 hr. Mov.	160.4 mi.	Sea L.	Clds.	Clds.	Clds.
				30.27 in.	19/10		
Ppn.	Liq. Tr in.	Prev. Dir.	W	3 hr. Tend.	Wx	Wx	Wx
				1+.5 mb	Overcast		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.	Vis.
			JG14	5 mi.		mi.	mi.

$$T_A \text{ Rank} = 25.4 > 27$$

$$T_A \text{ Univ} = 29$$

$$\bar{T} = 36$$

$$HDD = 29$$

$$\Sigma_{HDD} = 505$$

$$\Sigma_{PCN_2} = 2.18^1$$

$$\Sigma_{PCN_1} = 1.8^2$$

TUES, DEC 18, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.			Wind		Barom.		General Obs.				
Max.	40 °F		Dir.	SW	Temp.	74 °F		R- 1800 1815-1915, 0000-0800 (LT) MIN T OCCO ~ 0800 LT, 17th			
Min.	32 °F		Vel.	5 m.p.h.	Read.	28.44 in.					
Set	39 °F		Char.	STEADY	Corr.	28.31 in.					
R.H.	96 %		24 hr. Mov.	55 mi.	Sea L.	29.69 in.		0700	1300	1900	
						Clds.	10/10		Clds.	Clds.	
Ppn.	Liq.	0.46 in.	Prev. Dir.	S	3 hr. Tend.	V-2.5 mb		Wx	R-	Wx	Wx
Ppn.	Sol.	0 in.	Snow Depth	0 in.	Observer	MLH		Vis.	3 mi.	Vis.	mi.

$$T_{\text{PROF}} = 37, T_{\text{DRAMs}} = 34, T_{\text{DUNV}} = 37$$

$$\bar{T} = 36$$

$$\text{HDD} = 29$$

$$\Sigma_{\text{HDD}} = 534$$

$$\Sigma_{\text{PEN UA}} = 2.64''$$

$$\Sigma_{\text{PEN SOL}} = 1.8''$$

Wed. December 19 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	45 °F	Dir. WNW	Temp. 72 °F	• R - 085 - 0830 LT 1045 - 1230 1330 - 2145 LT FROPA ~ 2130 LT MAX T OLRD AFTER FROPA		
Min.	37 °F	Vel. 7-12 m.p.h.	Read. 28.76 in.			
Set	38 °F	Char. Variable	Corr. 28.63 in.			
R.H.	69 %	24 hr. Mov. 55 mi.	Sea L. 30.02 in.	Clds. 10/10 10	Clds.	Clds.
Ppn.	.63 in.	Prev. Dir. W	3 hr. Tend. +4 / mb	Wx .01 -8.00	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer JCK	Vis. 20 mi.	Vis. mi.	Vis. mi.

$$T_{\text{no-fa}} = 36 \quad \bar{T} = 41 \quad \sum PCN_e = 3.27''$$

$$T_w = \text{—} \quad HDD = 24 \quad \sum PCN_s = 1.8''$$

$$T_d = 27 \quad \sum HDD = 558$$

Thurs, December 20 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.		General Obs.		
Max.	39 °F	Dir.	—	Temp.	74 °F			
Min.	22 °F	Vel.	0 m.p.h.	Read.	29.38 in.			
Set	24 °F	Char.	Calm	Corr.	29.20 in.	0700	1300	1900
R.H.	84 %	24 hr. Mov.	52 mi.	Sea L.	30.60 in.	Clds.	Clds.	Clds.
Ppn.	0 in.	Prev. Dir.	W	3 hr. Tend.	+1 1/2 mb	Wx	Wx	Wx
Ppn.	0 in.	Snow Depth	0 in.	Observer	JCK	Vis.	Vis.	Vis.
						15 mi.	mi.	mi.

Clds.
2/10 cirrus
Wx
- heavy cl
- 40 FOG

$$T_{avg} = 23 \quad \bar{T} = 31 \quad \sum PEN_s = 3.27''$$

$$T_w = \text{---} \quad HDD = 34 \quad \sum PEN_s = 1.8''$$

$$T_d = 18 \quad \sum HDD = 592$$

Fri. DEC. 21, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind		Barom.	General Obs.						
Max.	39 °F	Dir.	—	Temp.	PCPN VRY LT R-B ~ 0415 LT RIDGTOPS OBSCURED (A SOGGY SOLTICE!)						
				74 °F							
Min.	24 °F	Vel.	0 m.p.h.	Read.				29.15 in.			
Set	39 °F	Char.	CALM	Corr.	29.02 in.	0700	1300	1900			
R.H.	96 %	24 hr. Mov.	99 mi.	Sea L.	30.42 in.	Clds.	10/10	Clds.		Clds.	
Ppn.	.06 in.	Liq.		Prev. Dir.	S	3 hr. Tend.	-1.5 mb	Wx	R-F	Wx	Wx
Ppn.	0 in.	Sol.		Snow Depth	0 in.	Observer	JHM	Vis.	2 1/2 mi.	Vis.	mi.
										mi.	mi.

$$T_{\text{roof}} = 37 \quad T_{\text{drum}} = 34 \quad T_{\text{unv}} = 37$$

$$\bar{T} = 32$$

$$H_{\text{DD}} = 33$$

$$\sum H_{\text{DD}} = 625$$

$$\sum \rho \rho N(L) = 3.33''$$

$$\sum \rho \rho N(S) = 1.0''$$

Sat Dec 22, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	48 °F	Dir. SW	Temp. 73 °F	Low occurred at 0700 est Dec 21. Fog on Ridges R- occl. R obs ~ 1100 LT Tmps rise steadily over 24 hrs PERIOD		
Min.	39 °F	Vel. 8 m.p.h.	Read. 28.87 in.			
Set	48 °F	Char. Gusty 12-14	Corr. 28.74 in.			
R.H.	60 %	24 hr. Mov. 57.7 mi.	Sea L. 30.22 in.	Clds. 10/10	Clds.	Clds.
Ppn. Liq.	.25 in.	Prev. Dir. SW	3 hr. Tend. 1-2 mb	Wx overcast	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer JGM	Vis. 7 mi.	Vis. mi.	Vis. mi.

$$T_w = 45$$

$$T_{\Delta \text{ Rankes}} = 41.8 > 43$$

$$T_{\text{dry}} = 44$$

$$\bar{T} = 44$$

$$H_{\text{DD}} = 2.4$$

$$\Sigma_{\text{HDD}} = 64.8$$

$$\Sigma_{\text{RCR}(L)} = 3.58''$$

$$\Sigma_{\text{RCR}(S)} = 1.8''$$

SUNDAY, DEC 23 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	60 °F	Dir. SSW	Temp. 74 °F	FOG ON RIDGES - Lights of Tussey Mtn just visible		
Min.	47 °F	Vel. 15 m.p.h.	Read. 28.54 in.	RW - ONL RW 0000 LT - OBS MINT OCURD ~ 1000 LT 22ND		
Set	60 °F	Char. Gusty	Corr. 28.41 in.	0700	1300	1900
R.H.	84 %	24 hr. Mov. 62 mi.	Sea L. 29.72 in.	Clds. 10/10	Clds.	Clds.
Ppn. Liq.	0.37 in.	Prev. Dir. SSW	3 hr. Tend. -1.5 mb	Wx L, R-	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer MLH	Vis. 4 mi.	Vis. mi.	Vis. mi.

$$T_{\text{ROOF}} = 58^{\circ}, T_{\text{RAMOS}} = 51, T_{\text{JUNY}} = 57$$

$$\bar{T} = 54$$

$$\text{HDD} = 11$$

$$\Sigma \text{HDD} = ~~11~~ 658$$

$$\Sigma \text{PCN}_{(\text{LIQ})} = 3.95''$$

$$\Sigma \text{PCN}_{(\text{SOL})} = 1.8''$$

MONDAY, DECEMBER 24, 1990

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 60 °F	Dir. W	Temp. 72 °F	R- obs - 0740, RW 0740-0840 Gust to 50 ~ 0750 LT, 23 AD FROPA ~ 0765 High occurred before FROPA R-, R 2150 LT (28th) - 0310 LT (24th)			
Min. 32 °F	Vel. 10 m.p.h.	Read. 28.55 in.				
Set 33 °F	Char. GUSTY	Corr. 28.43 in.				
R.H. 63 %	24 hr. Mov. 126 mi.	Sea L. 29.82 in.	0700	1300	1900	
Ppn. Liq. 0.56 in.	Prev. Dir. W	3 hr. Tend. +45 / mb	Clds. 10/10	Clds.	Clds.	
Ppn. Sol. 0 in.	Snow Depth 0 in.	Observer MLH	Wx OVC, WINDY	Wx	Wx	
			Vis. 10 mi.	Vis. mi.	Vis. mi.	

$$T_{\text{ROOF}} = 32 \quad T_{\text{RAMOS}} = 21, \quad T_{\text{DUNV}} = 25$$

$$\bar{T} = 47$$

$$\text{HDD} = 18$$

$$\Sigma \text{HDD} = 6.75$$

$$\Sigma \text{PCN}_{\text{LIR}} = 4.51$$

$$\Sigma \text{PCN}_{\text{SOL}} = 1.8''$$

Tuesday, December 25, 1990
1070 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 33 °F	Dir. W	Temp. 74 °F	MAX OCCURRED AT OBS, 24th (0700) SW-, OCNLSW 1310LT ~ 1900LT			
Min. 11 °F	Vel. 9 m.p.h.	Read. 29.14 in.	STEADILY INCREASING THROUGHOUT			
Set 11 °F	Char. Steady	Corr. 29.01 in.	0700	1300	1900	
R.H. 63 %	24 hr. Mov. 190 mi.	Sea L. 30.50 in.	Clds. CLR	Clds.	Clds.	
Ppn. T in.	Liq. W	Prev. Dir. W	3 hr. Tend. mb	Wx CLR	Wx	Wx
Ppn. T in.	Sol. T in.	Snow Depth T in.	Observer MLH	Vis. 20 mi.	Vis. mi.	Vis. mi.

$$T_{ROOF} = 8 \quad T_{DRAMOS} = 0 \quad T_{UNV} = 4$$

$$\bar{T} = 22$$

$$HDD = 43$$

$$\Sigma HDD = 718$$

$$\Sigma PCN_{LIG} = 4.51''$$

$$\Sigma PCN_{SOL} = 1.8''$$

Wednesday, December 26

0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 26 °F	Dir. WSW	Temp. 74 °F	Low occurred after OBS, 25th (~0920 LT)			
Min. 10 °F	Vel. 5 m.p.h.	Read. 29.21 in.				
Set 24 °F	Char. VARIABLE	Corr. 29.07 in.	0700	1300	1900	
R.H. 55 %	24 hr. Mov. 114 mi.	Sea L. 30.52 in.	Clds. 10/10	Clds.	Clds.	
Ppn. 0 in.	Liq. in.	Prev. Dir. SW	3 hr. Tend. +2.4 / mb	Wx BKNVC	Wx	Wx
Ppn. 0 in.	Sol. in.	Snow Depth 0 in.	Observer MLH	Vis. 10 mi.	Vis. mi.	Vis. mi.

$$T_{\text{ROOF}} = 22 \quad T_{\text{D RAINOS}} = 9 \quad T_{\text{D UNV}} = 15^{\circ}$$

$$\bar{T} = 19$$

$$HD = 46$$

$$\sum HDD = 76 \text{ } \cancel{\text{h}}$$

$$\sum PCN_{(\text{LIQ})} = 4.51''$$

$$\sum PCN_{(\text{SOL})} = 1.8''$$

Thursday December 23, 1990
0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max.	28 °F	Dir. NE	Temp. 74 °F			
Min.	14 °F	Vel. 6 m.p.h.	Read. 29.50 in.			
Set	14 °F	Char. steady	Corr. 29.37 in.	0700	1300	1900
R.H.	64 %	24 hr. Mov. 98 mi.	Sea L. 30.87 in.	Clds. 10/10	Clds.	Clds.
Ppn.	Liq. 0 in.	Prev. Dir. W	3 hr. Tend. 1+2 mb	Wx OVC-	Wx	Wx
Ppn.	Sol. 0 in.	Snow Depth 0 in.	Observer JGM	Vis. 15 mi.	Vis. mi.	Vis. mi.

$$T_{\text{orans}} = 2.9 > 6$$

$$T_{\text{UNV}} = 8$$

$$\bar{T} = 21$$

$$H_0 = 44$$

$$\Sigma H_{00} = 808$$

$$\Sigma FCN(L_{ij}) = 4.51''$$

$$\Sigma FCN(S_{0k-1}) = 1.8''$$

FRI. DEC. 28, 1990 0700 EST

Meteorological Observatory
University Park, PA

Temp.			Wind		Barom.		General Obs.		
Max.	24	°F	Dir.	—	Temp.	72	°F	OURNT 40 ~ 19 PCPN VRY LT @ OBS	
Min.	14	°F	Vel.	0 m.p.h.	Read.	29.24	in.	S-(OCNLS) 1610 LT 27th @ 2000 LT OBS 28th	
Set	22	°F	Char.	calm	Corr.	29.11	in.	* REC LIQ. + SOLID FOR DATE	
R.H.	94	%	24 hr. Mov.	37.3 mi.	Sea L.	30.54	in.	Clds.	10/10
Ppn.	0.90	in.	Prev. Dir.	E	3 hr. Tend.	-1.5	mb	Wx	S-F
Ppn.	9.0	in.	Snow Depth	7 in.	Observer	JHM		Vis.	1 mi.
								Vis.	mi.
								Vis.	mi.

$$T_{\text{root}} = 19 \quad T_d \approx 17.5$$

$$\bar{T} = 19$$

$$H_{\text{DD}} = 46$$

$$\sum H_{\text{DD}} = 854$$

$$\sum \text{PCPN}(\text{L}) = 5.41''$$

$$(\text{S}) = 10.8''$$

Solid mass @ 2300 LT =
32''
@ 0100 LT =
6.0''

Saturday, December 29 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 33 °F	Dir. SW	Temp. 72 °F	Intermittent S- and ZL -- obs → AFTERNOON			
Min. 21 °F	Vel. 3 m.p.h.	Read. 29.17 in.	ZL - becoming ZR - ~1900 LT, 28% - 0530 LT, 28%			
Set 33 °F	Char. Variable	Corr. 29.04 in.	MIN T OCURD ~ 0730 LT, 28%			
R.H. 81% %	24 hr. Mov. 27.5 mi.	Sea L. 30.46 in.	Clds. 10/10	Clds.	Clds.	
Ppn. Liq. 0.13 in.	Prev. Dir. SW	3 hr. Tend. √5.01 mb	Wx OVC	Wx	Wx	
Ppn. Sol. 0 in.	Snow Depth 6 in.	Observer MLH	Vis. 3 mi.	Vis. mi.	Vis. mi.	

$$T_{\text{ROOF}} = 30 \quad T_{\text{LANDS}} = 25 \quad T_{\text{UNV}} = 31$$

$$\bar{T} = 27$$

$$HDD = \cancel{84} 38$$

$$\Sigma HDD = 908$$

$$\Sigma PCN_{\text{AIR}} = 5.54''$$

$$\Sigma PCN_{\text{SOL}} = 10.8''$$

SIGNIFICANT GLAZE ON
ALL SURFACES
VERY ICY ROAD SURFACES
OUTSIDE OF BOURBONCH
OURNITE

$$T_{\text{roof}} = 43.4 > 44$$

$$T_{\text{turnV}} = 45$$

$$\bar{T} = 41$$

$$\sum HDP = 24 \quad \sum ADD = 932$$

$$\sum PCN_{LJA} = 5.54''$$

$$\sum PCN_{SD} = 10.8''$$

Monday, December 31, 1970 0700 EST

Meteorological Observatory
University Park, PA

Temp.		Wind	Barom.	General Obs.		
Max. 55 °F	Dir. NW	Temp. 71 °F	R-1350LT → 2245 LT (ocul L-) instability N 1940LT (pres jump) LINE			
Min. 31 °F	Vel. 17 m.p.h.	Read. 29.05 in.	GUST TO 40 ~ 1945 BRIEF RWT FROPA ~ 2245 LT (over)			
Set 31 °F	Char. gusty	Corr. 28.92 in.	0700	1300	1900	
R.H. 69 %	24 hr. Mov. 116 mi.	Sea L. 30.34 in.	Clds. 10/10	Clds.	Clds.	
Ppn. 0.39 in.	Liq. Prev. Dir. SW	3 hr. Tend. +4.9 / mb	Wx SW	Wx	Wx	
Ppn. 0.1 in.	Sol. Snow Depth T in.	Observer MLH	Vis. 3 mi.	Vis. mi.	Vis. mi.	

$$T_{\text{ROOF}} = 29 \quad T_{\text{RAMOS}} = 19 \quad T_{\text{UNV}} = 25$$

$$\bar{T} = 43$$

$$HDD = 22$$

$$\Sigma HDD = 954$$

$$\Sigma PCN_{\text{LIQ}} = 5.93$$

$$\Sigma PCN_{\text{SOL}} = 10.9''$$

SW - began ~ 0500 LT,
31ST