

TUESDAY, Oct. 1, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | | Wind | Barom. | General Obs. | | |
|-------|------|-------------|-------------|-----------------|--------------|-------|--|
| Max. | | Dir. | Temp. | OVERNITE LO= 52 | | | |
| 65 | °F | W | 71 °F | | | | |
| Min. | | Vel. | Read. | | | | |
| 40 | °F | 2-6 m.p.h. | 29.02 in. | | | | |
| Set | | Char. | Corr. | 0700 | 1300 | 1900 | |
| 52 | °F | Light + Var | 28.90 in. | | | | |
| R.H. | | 24 hr. Mov. | Sea L. | Clds. | Clds. | Clds. | |
| 89 | % | 99.5 mi. | 30.26 in. | 2/10 | | | |
| Ppn. | Liq. | Prev. Dir. | 3 hr. Tend. | Wx | Wx | Wx | |
| 0 | in. | S | +0 mb | Fog-HAZE | | | |
| Ppn. | Sol. | Snow Depth | Observer | Vis. | Vis. | Vis. | |
| - | in. | - in. | SC | 5 mi. | mi. | mi. | |

$$\bar{T} = 52$$

$$H_{00} = 13$$

$$\Sigma H_{00} = 13$$

$$\Sigma C_{00} = 0$$

$$\Sigma P_{00} = 0$$

$$T_{0000} = 50$$

$$T_{000} = 53$$

Wednesday Oct 2 1991 0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|---------------|-------------------------|---------------------|------------------------|--------------------|-------------|-------------|
| Max. 77 °F | Dir. SW | Temp. 70 °F | RW - ~ 1420 - 1430 LT | | | |
| Min. 52 °F | Vel. 6 m.p.h. | Read. 28.90 in. | | | | |
| Set 56 °F | Char. light | Corr. 28.78 in. | SURFACE T LOW = 55 | | | |
| R.H. 80 % | 24 hr. Mov. 24.5 mi. | Sea L. 30.13 in. | Clds. 6 above 10 | 0700 | 1300 | 1900 |
| Ppn. T | Liq. in. | Prev. Dir. SW | 3 hr. Tend. +1.0 mb | Wx Partly Sunny | Wx | Wx |
| Ppn. - | Sol. in. | Snow Depth in. | Observer LAM | Vis. 10 mi. | Vis. mi. | Vis. mi. |

$$\bar{T} = 57$$

$$T_{avg} = 45$$

$$T_{DUNV} = 51$$

~~XXXXXXXXXX~~

$$\bar{T} = 65$$

$$H_{PD} = 0$$

$$C_{PD} = 0$$

$$\sum H_{DD} = 13$$

$$\sum L_{PD} = 0$$

$$\sum PPN = T$$

(T_{DUNV} is used for
calculations)

Thursday October 3 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|---------------|-----------------------|---------------------|---|-----------------------------------|-------------|-------------|
| Max. 79 °F | Dir. — | Temp. 70 °F | | | | |
| Min. 56 °F | Vel. 0 m.p.h. | Read. 28.77 in. | | | | |
| Set 58 °F | Char. Calm | Corr. 28.65 in. | overcast low: 58 | | | |
| | | | 0700 | 1300 | 1900 | |
| R.H. 83 % | 24 hr. Mov. 84 mi. | Sea L. 29.98 in. | Clds. 1/10 afternoon 1/10 evening | Clds. | Clds. | |
| Ppn. 0 in. | Liq. in. | Prev. Dir. S | 3 hr. Tend. ± 0 mb | Wx • No dr, fog • misty sun | Wx | Wx |
| Ppn. 0 in. | Sol. in. | Snow Depth 0 in. | Observer JK | Vis. 7 mi. | Vis. mi. | Vis. mi. |

$$T_{\text{roof}} = 59 \quad F = 68 \quad \sum PCN_i = T$$

$$T_w = 56 \quad \text{MAD} = 0 \quad \sum PCN_i = 0$$

$$T_l = 54 \quad \sum \text{HAD} = 13$$

$$\text{HAD} = 3$$

$$\sum \text{HAD} = 13$$

Friday October 4 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|---------------|------------------------|----------------------|---|---------------|---------------|
| Max. | 79 °F | Dir. ENE | Temp. 70 °F | <ul style="list-style-type: none"> • RW-- 1845 LT - 1910 LT • L- 0100 LT • RW-- 2115-30 LT | | |
| Min. | 56 °F | Vel. 5 m.p.h. | Read. 28.91 in. | | | |
| Set | 59 °F | Char. Steady | Corr. 28.79 in. | | | |
| R.H. | 93 % | 24 hr. Mov. WSW mi. | Sea L. 30.12 in. | 0700 Clds. X | 1300 Clds. | 1900 Clds. |
| Ppn. | Liq. T in. | Prev. Dir. SB | 3 hr. Tend. +2 mb | Wx Fog | Wx | Wx |
| Ppn. | Sol. 0 in. | Snow Depth 0 in. | Observer JCK | Vis. 1/4 v. 1/2 mi. | Vis. mi. | Vis. mi. |

$$T_{\text{red}} = 59 \quad \bar{T} = 68 \quad \sum ACN_L = T$$

$$T_{\text{red}} = 58 \quad HDB = 0 \quad \sum ACN_S = 0$$

$$T_d = 57 \quad \sum HDB = 13$$

$$cDB = 3$$

$$\sum cDB = 6$$

$$\bar{T} = 67$$

$$C_{DD} = 2$$

$$\sum C_{DD} = 8$$

$$\sum H_{DD} = 13$$

$$\sum PPN_i = T$$

$$T_{roof} = 63^\circ$$

$$T_w = 59.5$$

$$T_d = 57$$

$$T_{d_{RAMOS}} = 53.5$$

$$T_{d_{UNV}} = 57$$

Sunday Oct 6 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | | Wind | Barom. | General Obs. | | | | |
|-------|---------|-------------|-----------|-------------|--------------|---|----------------|------|------|
| Max. | 76 °F | Dir. | W | Temp. | 72 °F | 1738 LT = TR W/ wind 2800 Rain ended ~ 2000 LT @ 44 mph F&W RW - ~ 2345 - 0100 LT | | | |
| Min. | 44 °F | Vel. | 6 m.p.h. | Read. | 28.85 in. | | | | |
| Set | 44 °F | Char. | light | Corr. | 28.72 in. | | | | |
| R.H. | 65 % | 24 hr. Mov. | 117.8 mi. | Sea L. | 30.10 in. | Clds. | 0700 | 1300 | 1900 |
| Ppn. | .68 in. | Prev. Dir. | W | 3 hr. Tend. | - 0 mb | Wx | 2/10 | | |
| Ppn. | 0 in. | Snow Depth | 0 in. | Observer | LAM | Wx | cold and crisp | | |
| | | | | | | Vis. | 20 mi. | | |
| | | | | | | Vis. | | mi. | |
| | | | | | | Vis. | | | mi. |

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

$$T_{\text{D rames}} = 33$$

$$T_w = ~~39.5~~ 39.5$$

$$T_D = 33$$

$$\bar{T} = 60$$

$$T_p \text{ unv} = 37$$

$$H_{\text{DD}} = 5$$

$$\Sigma C_{\text{OD}} = 8$$

$$\Sigma H_{\text{DD}} = 18$$

$$\Sigma p_{\text{PW}} = .68$$

Monday Oct. 7, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|---------------|------------------------|---------------------|------------------------|----------------------|-------------|-------------|
| Max. 55 °F | Dir. SW | Temp. 71 °F | | | | |
| Min. 39 °F | Vel. 8 m.p.h. | Read. 28.91 in. | | | | |
| Set 41 °F | Char. SDY | Corr. 28.71 in. | | 0700 | 1300 | 1900 |
| R.H. 67 % | 24 hr. Mov. N/A mi. | Sea L. 30.17 in. | Clds. 3/10 | Clds. | Clds. | |
| Ppn. T in. | Liq. N/A in. | Prev. Dir. N/A | 3 hr. Tend. +1.2 mb | Wx MISTY SUNNY | Wx | Wx |
| Ppn. 0 in. | Sol. 0 in. | Snow Depth 0 in. | Observer CPR | Vis. 25 mi. | Vis. mi. | Vis. mi. |

$$T_{\text{roof}} = 40 \quad T_w = 36 \quad T_d = 30$$

$$\bar{T} = 47$$

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

$$T_{\text{ramus}} = 27$$

$$H_{\text{DD}} = 18$$

$$\sum C_{\text{DD}} = 8$$

$$\sum H_{\text{DD}} = 36$$

$$\sum \text{ppn.} = .68$$

Tues. OCT. 8, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|---------------|--------------------------|--------------------------|-----------------------------|-------------|-------------|
| Max. | 51 °F | Dir. SW | Temp. 71 °F | OCNL RW - 1615 - 1720 LT | | |
| Min. | 36 °F | Vel. 6 m.p.h. | Read. 29.10 in. | | | |
| Set | 38 °F | Char. VAR | Corr. 28.97 in. | | | |
| R.H. | 73 % | 24 hr. Mov. 119.1 mi. | Sea L. 30.37 in. | Clds. 1/10 | Clds. | Clds. |
| Ppn. | Liq. T in. | Prev. Dir. W | 3 hr. Tend. +1.5 / mb | Wx Mostly Clr | Wx | Wx |
| Ppn. | Sol. 0 in. | Snow Depth - in. | Observer SC | Vis. 15 mi. | Vis. mi. | Vis. mi. |

$$\bar{T} = 44$$

$$H_{00} = 21$$

$$\Sigma C_{00} = 8$$

$$\Sigma H_{00} = 57$$

$$\Sigma PPN = .68$$

$$T_{roof} = 38$$

$$T_w = 32$$

$$T_o = 30$$

Wed. Oct 9, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|-------|-------------|-------------|---------------|-------|-------|
| Max. | 61 °F | Dir. | Temp. | | | |
| | | - | 72 °F | | | |
| Min. | 38 °F | Vel. | Read. | | | |
| | | 0 m.p.h. | 29.08 in. | | | |
| Set | 40 °F | Char. | Corr. | DVNT LOW = 39 | | |
| | | calm | 28.95 in. | 0700 | 1300 | 1900 |
| R.H. | 62 % | 24 hr. Mov. | Sea L. | Clds. | Clds. | Clds. |
| | | 75.8 mi. | 30.35 in. | 5/10 ci | | |
| Ppn. | Liq. | Prev. Dir. | 3 hr. Tend. | Wx | Wx | Wx |
| 0 | in. | SW | - 0 mb | COLD & SUNNY | | |
| Ppn. | Sol. | Snow Depth | Observer | Vis. | Vis. | Vis. |
| 0 | in. | 0 in. | LAM | 30 mi. | mi. | mi. |

$$T_{\text{roof}} = 41 \quad T_{\text{ranges}} = 29$$

$$T_w = 35.5 \quad T_D = 27$$

$$\bar{T} = 50 \quad A_{\text{roo}} = 15 \quad T_{\text{DUNV}} = 34$$

$$\Sigma C_{\text{roo}} = 8$$

$$\Sigma H_{\text{roo}} = 72$$

$$\Sigma \text{ppv} = .68$$

Thursday October 10 1991 0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|---------------|-----------------------|--------------------------|--|-------------|-------------|
| Max. | 69 °F | Dir. SW | Temp. 72 °F | | | |
| Min. | 40* °F | Vel. 6 m.p.h. | Read. 28.88 in. | | | |
| Set | 46 °F | Char. Steady | Corr. 28.75 in. | * over low: 46 | | |
| | | | | 0700 | 1300 | 1900 |
| R.H. | 74 % | 24 hr. Mov. 70 mi. | Sea L. 30.11 in. | Clds. 1/10 CLOUDS ALTOCUM | Clds. | Clds. |
| Ppn. | Liq. 0 in. | Prev. Dir. S | 3 hr. Tend. -1 1/2 mb | Wx Sunny - Front Ridge - Base Fog | Wx | Wx |
| Ppn. | Sol. 0 in. | Snow Depth 0 in. | Observer JCK | Vis. 20 mi. | Vis. mi. | Vis. mi. |

$$T_{\text{roof}} = 48 \quad \bar{T} = 55 \quad \sum PCN_e = .68''$$

$$T_w = 44 \quad HAD = 10 \quad \sum PCN_e = 0''$$

$$T_L = 40 \quad \sum HAD = 82$$

$$COD = 0$$

$$\sum COD = 8$$

Friday October 11 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | | Wind | Barom. | General Obs. | | | |
|-------|------|------------|-------------|--|----------------------------------|-------|-------|----|
| Max. | | | Dir. | Temp. | RB ~ 1715 at R-- | | | |
| 68 | °F | | NE | 72 | | | | °F |
| Min. | | | Vel. | Read. | | | | |
| 46 | °F | | 10 m.p.h. | 28.61 in. | | | | |
| Set | | | Char. | Corr. | * next low: 48 | | | |
| 48 | °F | | Smoky | 28.48 in. | 0700 | 1300 | 1900 | |
| R.H. | | | 24 hr. Mov. | Sea L. | Clds. | Clds. | Clds. | |
| 86 | % | | 79 mi. | 29.83 in. | 10/10 10/10 10/10 10/10 | | | |
| Ppn. | Liq. | Prev. Dir. | 3 hr. Tend. | Wx | Wx | Wx | | |
| .03 | in. | WSW | -1 1/2 mb | Wx • gust • fog along Tussock • ridge | | | | |
| Ppn. | Sol. | Snow Depth | Observer | Vis. | Vis. | Vis. | | |
| 0 | in. | 0 in. | JK | 15 mi. | | mi. | mi. | |

$$T_{\text{roof}} = 47 \quad \bar{T} = 57 \quad \sum P_{\text{LN}} = .71''$$

$$T_w = 45 \quad \text{HDD} = 8 \quad \sum P_{\text{LN}} = 0''$$

$$T_d = 43 \quad \sum \text{HDD} = 90$$

$$\text{CDD} = 0$$

$$\sum \text{CDD} = 8$$

Saturday Oct. 12, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-----------------|-------------------------|---------------------|--------------------------------------|-----------------------|-------------|--|
| Max. 52 °F | Dir. — | Temp. 73 °F | - BNOVC SE @ OBS TIME | | | |
| Min. 41 °F | Vel. 0 m.p.h. | Read. 28.53 in. | RW- ~ 1315-1415 LT (PCAN VRY LST) | | | |
| Set 42 °F | Char. CALM | Corr. 28.40 in. | 0700 | 1300 | 1900 | |
| R.H. 96 % | 24 hr. Mov. 21.4 mi. | Sea L. 29.76 in. | Clds. - 10/10 (over) | Clds. | Clds. | |
| Ppn. .01 in. | Liq. W | Prev. Dir. W | 3 hr. Tend. +0.5 mb | Wx MOSTLY CLDY | Wx | |
| Ppn. — in. | Sol. — in. | Snow Depth — in. | Observer CPB | Vjs. 4.6 mi FOG | Vis. mi. | |

$$\left. \begin{array}{l} T_{\text{roof}} = 42 \\ T_w = 41 \end{array} \right\} T_L = 40$$

$$\begin{array}{l} T_{\text{down}} = 40 \\ T_{\text{RAMOS}} = 34 \end{array}$$

$$\bar{T} = 47$$

$$H_{pp} = 18$$

$$\sum H_{pp} = 98$$

$$\sum C_{pp} = 8$$

$$\sum ppn. = .7L'$$

SUNDAY OCT. 13, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|-----------------|-------------------------|-----------------------|-----------------------|-------------|-------------|
| Max. | 53 °F | Dir. NW | Temp. 74 °F | RW - 16:15 - 17:00 LT | | |
| Min. | 42 °F | Vel. 9 m.p.h. | Read. 28.80 in. | | | |
| Set | 42 °F | Char. Steady | Corr. 28.67 in. | 0700 | 1300 | 1900 |
| R.H. | 85 % | 24 hr. Mov. 49.1 mi. | Sea L. 30.05 in. | Clds. 3/10 | Clds. | Clds. |
| Ppn. | Liq. .05 in. | Prev. Dir. W | 3 hr. Tend. +21 mb | Wx Mstly Sm. | Wx | Wx |
| Ppn. | Sol. - in. | Snow Depth - in. | Observer SC | Vis. 7 mi. | Vis. mi. | Vis. mi. |

$$T_{ROOF} = 41$$

$$T_w = 38$$

$$\bar{T} = 48$$

$$H_{00} = 17$$

$$\Sigma H_{00} = 115$$

$$\Sigma C_{00} = 8$$

$$\Sigma PPH = .77''$$

$$T_0 = 37$$

Monday October 14, 1991

0700 EST

Meteorological Observatory
University Park, PA

General Obs.

| | | | | | | | | | | | |
|-------|---------|-------------|----------|-------------|-----------|--|-------|-------|------|------|------|
| Temp. | | Wind | | Barom. | | RW - ~ 1430-1530 LT FIRST SUB-32 OF SEASON! | | | | | |
| Max. | 49 °F | Dir. | SSE | Temp. | 73 °F | | | | | | |
| Min. | 30 °F | Vel. | 4 m.p.h. | Read. | 28.95 in. | | | | | | |
| Set | 33 °F | Char. | STEADY | Corr. | 28.82 in. | | | | 0700 | 1300 | 1900 |
| R.H. | 81 % | 24 hr. Mov. | 58.2 mi. | Sea L. | 30.24 in. | Clds. | Clds. | Clds. | | | |
| Ppn. | .02 in. | Prev. Dir. | W | 3 hr. Tend. | -1.03 mb | Wx | Wx | Wx | | | |
| Ppn. | - in. | Snow Depth | - in. | Observer | CPB | Vis. | Vis. | Vis. | | | |
| | | | | | | 20 mi. | mi. | mi. | | | |

~~scribbles~~ } ~~scribbles~~

$$T_d = 23$$

$$T_d = 28$$

$$\left. \begin{array}{l} T_{\text{roof}} = 33 \\ T_w = 31 \end{array} \right\} T_d = 28$$

$$\bar{T} = 40 \quad \sum H_{pp} = 140$$

$$H_{pp} = 25 \quad \sum C_{pp} = 8$$

$$\sum p_{pp} = .79''$$

Tuesday Oct. 15, 1991

0700 EST

Meteorological Observatory
University Park, PA

General Obs.

| Temp. | | Wind | | Barom. | | General Obs. | | |
|-------|---------------|-------------|-----------|-------------|-----------|---|-------|-------|
| Max. | 57 °F | Dir. | SW | Temp. | 74 °F | R- 0230 LT - 0600 LT RW- 0600 LT - 085 | | |
| Min. | 33 °F | Vel. | 6 m.p.h. | Read. | 28.73 in. | * OVERTIME LG = 48 | | |
| Set | 49 °F | Char. | Steady | Corr. | 28.60 in. | 0700 | 1300 | 1900 |
| R.H. | 73 % | 24 hr. Mov. | 104.5 mi. | Sea L. | 29.95 in. | Clds. | Clds. | Clds. |
| Ppn. | Liq. 0.05 in. | Prev. Dir. | S | 3 hr. Tend. | ± 0 mb | Wx | Wx | Wx |
| Ppn. | Sol. - in. | Snow Depth | - in. | Observer | SC | Vis. | Vis. | Vis. |
| | | | | | | 5 mi. | mi. | mi. |

$$T = 45$$

$$H_{00} = 20$$

$$\Sigma H_{00} = 160$$

$$\Sigma C_{00} = 8$$

$$\Sigma PPN = .84''$$

$$T_{ROOF} = 49$$

$$T_D = 45$$

$$T_0 = 41$$

Wednesday Oct 16, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-----------------|------------------------|------------------------|---------------------|--------------|-------------|--|
| Max. 52 °F | Dir. NW | Temp. 75 °F | RW-, L: Obs-1145 LT | | | |
| Min. 42 °F | Vel. 408 m.p.h. | Read. 28.82 in. | L~1245-1345 | | | |
| Set 42 °F | Char. light Gusty | Corr. 28.69 in. | RW~1345-1600 | | | |
| R.H. 73 % | 24 hr. Mov. 223 mi. | Sea L. 30.00 in. | 0700 | 1300 | 1900 | |
| Ppn. .72 in. | Prev. Dir. W | 3 hr. Tend. +2.0 mb | Clds. % 7/10 | | | |
| Ppn. 0 in. | Snow Depth 0 in. | Observer LAM | Wx Chilly & grey | | | |
| | | | Vis. 5 mi. | Vis. mi. | Vis. mi. | |

$$T_{roof} = 41$$

$$T_w = 37.5$$

$$\bar{T} = 47$$

$$H_{DD} = 18$$

$$\Sigma H_{DD} = 178$$

$$\Sigma G_{DD} = 8$$

$$\Sigma PPN = 1.56''$$

$$T_{D_{net}} = 33$$

$$T_o = \del{33} 33$$

$$T_{ounv} = 38$$

RW- 1820-2100LS

Thursday October 17 1991 0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | | Wind | Barom. | General Obs. | | | |
|-------|-------|-------------|----------|-------------|--------------|--|-------|-------|
| Max. | 52 °F | Dir. | — | Temp. | 73 °F | <i>Small - 5000' Line of Altocumulus Advancing from the South.</i> | | |
| Min. | 34 °F | Vel. | 0 m.p.h. | Read. | 28.89 in. | | | |
| Set | 35 °F | Char. | calm | Corr. | 28.76 in. | | | |
| R.H. | 74 % | 24 hr. Mov. | 42 mi. | Sea L. | 30.16 in. | 0700 | 1300 | 1900 |
| Ppn. | 0 in. | Prev. Dir. | NNW | 3 hr. Tend. | +1 mb | Clds. | Clds. | Clds. |
| Ppn. | 0 in. | Snow Depth | 0 in. | Observer | JCK | Wx | Wx | Wx |
| | | | | | | Vis. | Vis. | Vis. |
| | | | | | | 20 mi. | mi. | mi. |

$$T_{\text{med}} = 34 \quad \bar{T} = 43 \quad \sum P_{\text{LW}} = 1.56''$$

$$T_w = 31 \quad \text{MOD} = 22 \quad \sum P_{\text{LW}} = 0''$$

$$T_L = 28 \quad \sum \text{MOD} = 200$$

$$\text{MOD} = 0$$

$$\sum \text{MOD} = 8$$

Friday October 18 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|---------------|-------------|-----------------------|--------------------------|------------------------|-------------|-------------|
| Max. 56 °F | | Dir. WSW | Temp. 74 °F | | | |
| Min. 35 °F | | Vel. 6 m.p.h. | Read. 28.94 in. | | | |
| Set 43 °F | | Char. Steady | Corr. 28.81 in. | * over low: 48 | | |
| | | | | 0700 | 1300 | 1900 |
| R.H. 41 % | | 24 hr. Mov. 20 mi. | Sea L. 30.17 in. | Clds. 1/10 overcast | Clds. | Clds. |
| Ppn. 0 in. | Liq. in. | Prev. Dir. SW | 3 hr. Tend. +1 1/2 mb | Wx Sunny | Wx | Wx |
| Ppn. 0 in. | Sol. in. | Snow Depth 0 in. | Observer JCK | Vis. 30 mi. | Vis. mi. | Vis. mi. |

$$T_{\text{roof}} = 48 \quad \bar{T} = 46 \quad \sum P_{\text{EN}_L} = 1.56''$$

$$T_w = 39 \quad \text{HDD} = 19 \quad \sum P_{\text{EN}_S} = 0''$$

$$T_L = 26 \quad \sum \text{HDD} = 219$$

$$\text{CDD} = 0$$

$$\sum \text{CDD} = 8$$

$$\bar{T} = 57$$

$$H_{\text{DD}} = 8$$

$$\Sigma C_{\text{DD}} = 8$$

$$\Sigma H_{\text{DD}} = \del{227}$$

227

$$\Sigma \text{PPM} = 1.56''$$

$$T_{\text{roof}} = 49$$

$$T_w = 44.5$$

$$T_d = 40$$

$$T_{d \text{ UNV}} = 43$$

$$T_{d \text{ RANOS}} = 38$$

Sunday Oct. 20, 1971

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-----------------------|-----------------------|------------------------|--|--------------|-------------|--|
| Max. 61 °F | Dir. N | Temp. 74 °F | RW - 1100 LT MAX T OCRD ~ 1030 LT (PRE-PROPA) | | | |
| Min. 29 °F | Vel. 3 m.p.h. | Read. 29.10 in. | | | | |
| Set 29 °F | Char. steady | Corr. 28.97 in. | 0700 | 1300 | 1900 | |
| R.H. 81 % | 24 hr. Mov. 29 mi. | Sea L. 3039 in. | Clds. 3/10 | Clds. | Clds. | |
| Ppn. Liq. 0.04 in. | Prev. Dir. W | 3 hr. Tend. +2 / mb | Wx Mostly Sun. | Wx | Wx | |
| Ppn. Sol. - | Snow Depth - | Observer SC | Vis. 15 mi. | Vis. mi. | Vis. mi. | |

$$\bar{T} = 45$$

$$H_{00} = 20$$

$$\Sigma C_{00} = 8$$

$$\Sigma H_{00} = 247$$

$$\Sigma PPN = \text{~~1.60~~ 1.60''$$

$$T_{000} = 27$$

$$T_{001} = 32$$

Monday Oct 21, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|-------|-------------|----------|--------------|----------------|--|
| Max. | 52 °F | Dir. | - | Temp. | 73 °F | - FROST VSBL (PSA GOLF COURSE) |
| Min. | 29 °F | Vel. | 0 m.p.h. | Read. | 29.05 in. | - TIES MIN. (LOWEST) 29° FOR SEASON |
| Set | 30 °F | Char. | CALM | Corr. | 28.92 in. | |
| | | | | 0700 | 1300 | 1900 |
| R.H. | 63 % | 24 hr. Mov. | 23.6 mi. | Sea L. | 30.34 in. | Clds. - 2/10 Ci |
| Ppn. | 0 in. | Prev. Dir. | W | 3 hr. Tend. | 'NO CHANGE' mb | Wx COLDE SUNNY |
| Ppn. | - in. | Snow Depth | - in. | Observer | CPB | Vis. 20 mi. |
| | | | | | | mi. |

$$\bar{T} = 41$$

$$H_{DD} = 24$$

$$\Sigma H_{DD} = 271$$

$$\Sigma C_{DD} = 8$$

$$\Sigma PPN. = 1.60''$$

$$T_D = 19$$

$$T_{D \text{ RAM}} = 22$$

$$T_{D \text{ UNV}} = 26$$

$$T_{\text{ROOF}} = 30$$

$$T_{\text{WB}} = 26.5$$

Tues. Oct 22, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|----------------|-----------------------|---------------------|----------------------------------|----------------|---------------|-------------|
| Max. 56 °F | Dir. — | Temp. 75 °F | FOG AROUND THE RIDGES | | | |
| Min. 30* °F | Vel. 0 m.p.h. | Read. 29.03 in. | | | | |
| Set 34 °F | Char. Calm | Corr. 28.90 in. | *OVERNITE L ₀ = 33 | | | |
| R.H. 85 % | 24 hr. Mov. NA mi. | Sea L. 30.30 in. | 0700 Clds. Y ₁₀ | 1300 Clds. | 1900 Clds. | |
| Ppn. 0 in. | Liq. in. | Prev. Dir. NA | 3 hr. Tend. +2/ mb | Wx M. SUNNY | Wx | Wx |
| Ppn. — in. | Sol. in. | Snow Depth — in. | Observer SC | Vis. 7 mi. | Vis. mi. | Vis. mi. |

$$\bar{T}_o = 43$$

$$H_{oo} = 22$$

$$\Sigma H_{oo} = 293$$

$$\Sigma C_{oo} = 8$$

$$\Sigma PPN = 1.60''$$

$$T_w = 31$$

$$T_D = 30$$

Wed. Oct 23, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|---------------|--------------------------|---------------------|-------------------------|-----------------------------------|-------------|-------------|
| Max. 69 °F | Dir. — | Temp. 76 °F | | | | |
| Min. 34 °F | Vel. 0 m.p.h. | Read. 29.12 in. | | * RAMOS has NO 13Z data available | | |
| Set 42 °F | Char. Calm | Corr. 28.98 in. | | OVERNIGHT LOW = 42 | | |
| | | | 0700 | 1300 | 1900 | |
| R.H. 82 % | 24 hr. Mov. 37.9* mi. | Sea L. 30.37 in. | Clds. .Hazy ci cu | Clds. | Clds. | |
| Ppn. — in. | Liq. — in. | Prev. Dir. WSW* | 3 hr. Tend. +1 mb | Wx Chilly & Partly Sunny | Wx | Wx |
| Ppn. — in. | Sol. — in. | Snow Depth — in. | Observer LAM | Vis. 8 mi. | Vis. mi. | Vis. mi. |

$$T_{out} = 43$$

$$T_{inlets} = 36$$

$$T_w = 40.5$$

$$T_D = 38$$

$$\bar{T} = 52$$

$$T_{DUNV} = 39$$

$$H_{DD} = 13$$

$$\Sigma H_{DD} = 306$$

$$\Sigma C_{DD} = 8$$

$$\Sigma PPN = 1.60''$$

Thursday October 24 1991 0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|--------|-------|--------------------|------------------------|---|----------|----------|
| Max. | 73 °F | Dir. — | Temp. 74 °F | • A DECIDEDLY GRAY AND MURKY MORNING. • OVER LOW: 59 | | |
| Min. * | 42 °F | Vel. 0 m.p.h. | Read. 29.19 in. | | | |
| Set | 59 °F | Char. Calm | Corr. 29.06 in. | 0700 | 1300 | 1900 |
| R.H. | 90 % | 24 hr. Mov. 63 mi. | Sea L. 30.44 in. | Clds. 10/10 status | Clds. | Clds. |
| Ppn. | 0 in. | Prev. Dir. SSW | 3 hr. Tend. + 1 1/2 mb | Wx • OVERCAST • HAZE, Fog | Wx | Wx |
| Ppn. | 0 in. | Snow Depth 0 in. | Observer JCK | Vis. 3 mi. | Vis. mi. | Vis. mi. |

$$T_{No.1} = 59 \quad \bar{T} = 58 \quad \sum PCN_2 = 1.60''$$

$$T_w = 57 \quad HDB = 7 \quad \sum PCN_3 = 0''$$

$$T_L = 56 \quad \sum HDB = 313$$

$$CDA = 0$$

$$\sum CDA = -8$$

Friday October 25 1991

0700 EST

Meteorological Observatory
University Park, PA

General Obs.

| Temp. | | Wind | | Barom. | | General Obs. | | |
|-------|-------|-------------|----------|-------------|-----------|--------------|-------|-------|
| Max. | 66 °F | Dir. | S | Temp. | 71 °F | | | |
| Min. | 54 °F | Vel. | 7 m.p.h. | Read. | 29.14 in. | | | |
| Set | 56 °F | Char. | Steady | Corr. | 29.02 in. | 0700 | 1300 | 1900 |
| R.H. | 84 % | 24 hr. Mov. | 61 mi. | Sea L. | 30.37 in. | Clds. | Clds. | Clds. |
| Ppn. | 0 in. | Prev. Dir. | S | 3 hr. Tend. | + 1/2 mb | Wx | Wx | Wx |
| Ppn. | 0 in. | Snow Depth | 0 in. | Observer | J&K | Vis. | Vis. | Vis. |
| | | | | | | 2 v. 4 mi. | mi. | mi. |

Clds. stratus
7/10 stratus
stratus
Wx - haze, fog
- in clouds, drizzle

$$T_{avg} = 58 \quad \bar{T} = 60 \quad \sum PCN_s = 1.60''$$

$$T_w = 55 \quad HDD = 5 \quad \sum PCN_s = 0''$$

$$T_d = 53 \quad \sum HDD = 318$$

$$CDD = 0$$

$$\sum CDD = 8$$

Saturday Oct. 26, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | | Wind | Barom. | General Obs. | | |
|-------|------|--|-------------|-------------|-------------------------------------|-------|-------|
| Max. | | | Dir. | Temp. | - LOW LEVEL / VLY FOG @ OBS TIME | | |
| 74 | °F | | - | 73 | | | |
| Min. | | | Vel. | Read. | | | |
| 51 | °F | | 0 m.p.h. | 29.10 | | | |
| Set | | | Char. | Corr. | 0700 | 1300 | 1900 |
| 51 | °F | | CALM | 28.97 in. | | | |
| R.H. | | | 24 hr. Mov. | Sea L. | Clds. | Clds. | Clds. |
| 83 | % | | 67.5 mi. | 30.34 in. | - 3/10 (ci) | | |
| Ppn. | Liq. | | Prev. Dir. | 3 hr. Tend. | Wx | Wx | Wx |
| 0 | in. | | S | -14.5 mb | MOSTLY SUNNY | | |
| Ppn. | Sol. | | Snow Depth | Observer | Vis. | Vis. | Vis. |
| - | in. | | - in. | CPR | 5 FH mi. | mi. | mi. |

$$\bar{T} = 63$$

$$H_{DD} = 2$$

$$\sum H_{DD} = 320$$

$$\sum C_{DD} = 8$$

$$\sum ppn. = 1.60''$$

$$T_{roof} = 51$$

$$T_w = 48.5$$

$$T_d = 46$$

$$T_{d_{RAMOS}} = 46$$

SUN. Oct. 27, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|---------------|-------------------------|----------------------|---------------|-------------|-------------|
| Max. | 74 °F | Dir. W | Temp. 72 °F | | | |
| Min. | 51 °F | Vel. 2 m.p.h. | Read. 28.17 in. | | | |
| Set | 54 °F | Char. light | Corr. 28.84 in. | 0700 | 1300 | 1900 |
| R.H. | 86 % | 24 hr. Mov. 68.7 mi. | Sea L. 30.18 in. | Clds. 5/10 | Clds. | Clds. |
| Ppn. | Liq. 0 in. | Prev. Dir. W | 3 hr. Tend. 50 mb | Wx Pt. Sun | Wx | Wx |
| Ppn. | Sol. - in. | Snow Depth - in. | Observer SC | Vis. 4 mi. | Vis. mi. | Vis. mi. |

$$\bar{T} = 63$$

$$H_{00} = 2$$

$$\Sigma H_{00} = 322$$

$$\Sigma C_{00} = 8$$

$$\Sigma PAV = 1.00''$$

$$\bar{T}_D = 55$$

$$T_D = 53$$

Monday Oct. 28, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|------------|----------------------|---------------------|--|----------|----------|
| Max. | 75 °F | Dir. ENE | Temp. 72 °F | - LOW WL CAP / AC (S) | | |
| Min. | 48 °F | Vel. 8 m.p.h. | Read. 29.13 in. | - APPNT FROPA 2000 LT GRDUL WND SHFT | | |
| Set | 48 °F | Char. GUSTS TO 16 | Corr. 29.00 in. | - C ₂ OUPD | | |
| R.H. | 70 % | 24 hr. Mov. 69.0 mi. | Sea L. 30.38 in. | 0700 | 1300 | 1900 |
| Ppn. | Liq. 0 in. | Prev. Dir. S | 3 hr. Tend. +2.0 mb | Clds. - 6/10 (C ₁) - 6/10 (A ₁) | Clds. | Clds. |
| Ppn. | Sol. - in. | Snow Depth - in. | Observer CPB | Wx PARTLY SUNNY | Wx | Wx |
| | | | | Vis. 20 mi. | Vis. mi. | Vis. mi. |

$$\bar{T} = 62$$

$$H_{\text{ext}} = 3$$

$$\sum C_{\text{ext}} = 11$$

$$\sum H_{\text{ext}} = 325$$

$$\sum \text{ppn.} = 1.60''$$

$$T_{\text{roof}} = 48$$

$$T_w = 43.5$$

$$T_d = 39$$

$$T_{\text{dewpoint}} = 37$$

$$T_{\text{min}} = 41$$

TUES, OCT. 29, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | | Barom. | | General Obs. | | |
|-------|-------|-------------|----------|-------------|-----------|----------------------|-------|-------|
| Max. | 58 °F | Dir. | - | Temp. | 74 °F | Fog Along The Ridges | | |
| Min. | 31 °F | Vel. | 0 m.p.h. | Read. | 29.33 in. | | | |
| Set | 34 °F | Char. | Calm | Corr. | 29.20 in. | | | |
| R.H. | 85 % | 24 hr. Mov. | 73.4 mi. | Sea L. | 30.63 in. | 0700 | 1300 | 1900 |
| Ppn. | 0 in. | Prev. Dir. | NE | 3 hr. Tend. | +2 / mb | Clds. | Clds. | Clds. |
| Ppn. | - in. | Snow Depth | - in. | Observer | SC | Wx | Wx | Wx |
| | | | | | | Vis. | Vis. | Vis. |
| | | | | | | 5 mi. | mi. | mi. |

$$\bar{T} = 45$$

$$H_{00} = 20$$

$$\Sigma H_{00} = 345$$

$$C_{00} = 0$$

$$\Sigma C_{00} = 11$$

$$\Sigma P_{NS} = 1.60''$$

$$T_{sum} = 31$$

$$T_{down} = 30$$

$$T_{ross} = 34$$

$$T_{D_{sum}} = 26$$

Wed. Oct 30, 1991

0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | Barom. | General Obs. | | |
|-------|-------|-------------|-------------|-----------------|-------|-------|
| Max. | 57 °F | Dir. | 74 °F | | | |
| Min. | 26 °F | Vel. | 29.26 in. | | | |
| | | m.p.h. | | | | |
| Sp. | 26 °F | Char. | 29.13 in. | 0700 | 1300 | 1900 |
| | | Calm | | | | |
| R.H. | 88 % | 24 hr. Mov. | Sea L. | Clds. | Clds. | Clds. |
| | | 16 mi. | 30.57 in. | 10 | | |
| Ppn. | Liq. | Prev. Dir. | 3 hr. Tend. | Wx | Wx | Wx |
| | | E | -1.4 mb | SNOWY AND COLD! | | |
| Ppn. | Sol. | Snow Depth | Observer | Vis. | Vis. | Vis. |
| | | | LAM | 20 mi. | | |

$$T_{\text{net}} = 29$$

$$T_w = 24.5$$

$$\bar{T} = 42$$

$$H_{DO} = 23$$

$$\Sigma H_{DO} = 368$$

$$\Sigma CDD = 11$$

$$\Sigma PPN = 1.60''$$

$$T_{\text{proof}} = 17$$

~~$$T_{15} = 14$$~~

$$T_{\text{D UNV}} = 23$$

Thursday October 31 1991 0700 EST

Meteorological Observatory
University Park, PA

| Temp. | | Wind | | Barom. | General Obs. | | |
|-------|-------|-------------|----------|-------------|--------------|-------|-------|
| Max. | 63 °F | Dir. | — | Temp. | | | |
| | | | | 73 °F | | | |
| Min. | 28 °F | Vel. | 0 m.p.h. | Read. | | | |
| | | | | 28.92 in. | | | |
| Set | 41 °F | Char. | Calm | Corr. | out low: 37 | | |
| | | | | 28.79 in. | 0700 | 1300 | 1900 |
| R.H. | 55 % | 24 hr. Mov. | 28 mi. | Sea L. | Clds. | Clds. | Clds. |
| | | | | 30.17 in. | 8/10 altocum | | |
| Ppn. | 0 in. | Prev. Dir. | NNE | 3 hr. Tend. | Wx | Wx | Wx |
| | | | | +1 mb | . BKN | | |
| Ppn. | 0 in. | Snow Depth | 0 in. | Observer | Vis. | Vis. | Vis. |
| | | | | JCK | 30 mi. | mi. | mi. |

$$T_{\text{total}} = 42 \quad \bar{T} = 45 \quad \sum PCN_2 = 1.60''$$

$$T_w = 36 \quad MDD = 20 \quad \sum PCN_1 = 0''$$

$$T_L = 27 \quad \sum MDD = 388$$

$$CAN = 0$$

$$\sum CAN = 11$$