

DEC 1 1967

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	57 °F	Dir. —	Temp. 74	0700 FROST		
Min.	25 °F	Vel. 0 m.p.h.	Read. 29.195			
Set	26 °F	Char. Calm	Corr. 29.06			
R. H.	66 %	24 hr. Mov. 019	Sea L. 30.42	0700 Clds. CLEAR	1300 Clds.	1900 Clds.
Ppn. Ldq.	0 in.	Prev. Dir. L&V	3 hr. Tend. +00.1/	Wx —	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 0 in.	Observer JH	Vis. 10	Vis.	Vis.

DEC 2 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	57 °F	Dir. —	Temp. 70	0700 FROST		
Min.	25 °F	Vel. 0 m.p.h.	Read. 29.105			
Set	27 °F	Char. Calm	Corr. 28.88			
R. H.	69 %	24 hr. Mov. 014	Sea L. 30.24	0700 Clds. CLEAR	1300 Clds.	1900 Clds.
Ppn.	0 in.	Prev. Dir. L & V	3 hr. Tend. +01.21	Wx —	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer JH	Vis. 10	Vis.	Vis.

DEC 3 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind		Barom.		General Obs.		
Max.	58 °F	Dir.	ENE	Temp.	74	0700 FROST		
Min.	26 °F	Vel.	1 m.p.h.	Read.	29.095			
Set	28 °F	Char.	L&V	Corr.	28.96			
R. H.	72 %	24 hr. Mov.	018	Sea L.	30.32	0700	1300	1900
Ppn.	0 in.	Prev. Dir.	E	3 hr. Tend.	+00.1/	Clds. 4/10 Cs THIN	Clds.	Clds.
Ppn.	0 in.	Snow Depth	0 in.	Observer	JH	Wx	Wx	Wx
						Vis.	Vis.	Vis.
						7		

DEC 4 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	54 °F	Dir. —	Temp. 75	0700 FROST		
Min.	27 °F	Vel. 0 m.p.h.	Read. 28.875			
Set	27 °F	Char. CALM	Corr. 28.74			
R. H.	75 %	24 hr. Mov. 033	Sea L. 30.09	0700 Clds. 8/10 C's THIN	1300 Clds.	1900 Clds.
Ppn.	0 in.	Prev. Dir. NE	3 hr. Tend. -01.2L	Wx HAZE SMOKE	Wx	Wx
Ppn.	0 in.	Snow Depth 0 in.	Observer JH	Vis. 4	Vis.	Vis.

DEC 5 1952

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	49 °F	Dir. —	Temp. 73			
Min.	26 °F	Vel. 0 m.p.h.	Read. 28.600			
Set	30 °F	Char. CALM	Corr. 28.47	0700	1300	1900
R. H.	75 %	24 hr. Mov. 26	Sea L. 29.80	Clds. 5/10 Ci 1/10 Ac	Clds.	Clds.
Ppn.	Liq. 0 in.	Prev. Dir. NNE	3 hr. Tend. -1.0	Wx HAZE SMOKE	Wx	Wx
Ppn.	Sol. 0 in.	Snow Depth 0 in.	Observer JRC	Vis. 4	Vis.	Vis.

DEC 6 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	53 °F	Dir. SW	Temp. 76	RAIN till ~0530, then SNOW.		
Min.	30 °F	Vel. 2 m.p.h.	Read. 28.150			
Set	33 °F	Char. LGT + VAR	Corr. 28.016			
R. H.	82 %	24 hr. Mov. 91	Sea L. 29.32	0700 Clds. w/ no snow + FS	1300 Clds.	1900 Clds.
Ppn. Liq.	.39 in.	Prev. Dir. E	3 hr. Tend. -30 V	Wx SNOW	Wx	Wx
Ppn. Sol.	.5 in.	Snow Depth .5 in.	Observer JRC	Vis. 1	Vis.	Vis.

DEC 7 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 34 °F		Dir. SSW	Temp. 70	BLOWING SNOW + DRIFTING SNOW WIND GUSTS TO 41 KNOTS AT 0300 SB 0800		
Min. 24 °F		Vel. 16 + 28 m.p.h.	Read. 28.040			
Set 25 °F		Char. GUSTY	Corr. 27.922			
R. H. 77 %		24 hr. Mov. 324	Sea L. 29.160	0700 Clds. 10/10 RCTC	1300 Clds.	1900 Clds.
Ppn. ³¹ .22 in.	Liq.	Prev. Dir. SW	3 hr. Tend. +4.0V	Wx BS	Wx	Wx
Ppn. 5 4 in.	Sol.	Snow Depth 5 in.	Observer JRC	Vis. 4	Vis.	Vis.

(6)

DEC 8 1962

0700 EST

Meteorological Observatory
University Park, Pa.
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	24 °F	Dir. SW	Temp. 70			
Min.	24 °F	Vel. 10 m.p.h.	Read. 28.540			
Set	27 °F	Char. -	Corr. 28.420	0700	1300	1900
R. H.	69 %	24 hr. Mov. 475?	Sea L. 29.78	Clds. 570 Sc 110 Ci	Clds.	Clds.
Ppn. Liq.	0.02 in.	Prev. Dir. SW	3 hr. Tend. +20/	Wx -	Wx	Wx
Ppn. Sol.	Trace in.	Snow Depth (CORRECTION) 4 in.	Observer JRC	Vis. 7	Vis.	Vis.

DEC 9 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	31 °F	Dir. —	Temp. 71	TRACE OF SNOW 8 DEC 2100-0000 0615-		
Min.	24 °F	Vel. 0 m.p.h.	Read. 28.560			
Set	24 °F	Char. CALM	Corr. 28.437			
R. H.	81 %	24 hr. Mov. 112	Sea L. 29.81	0700 Clds. 10/10 S	1300 Clds.	1900 Clds.
Ppn. Liq.	T in.	Prev. Dir. SW	3 hr. Tend. -1.8L	Wx S-	Wx	Wx
Ppn. Sol.	T in.	Snow Depth 3 in.	Observer JRC	Vis. 2 1/2	Vis.	Vis.

DEC 10 1952

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind		0700 EST Barom.		General Obs.		
Max.	29 °F	Dir.	SSW	Temp.	68			
Min.	12 °F	Vel.	10 m.p.h.	Read.	28.180			
Set	14 °F	Char.	GUSTY	Corr.	28.365			
R. H.	70 %	24 hr. Mov.	166	Sea L.	29.75	0700	1300	1900
						Clds.	Clds.	Clds.
Ppn.	.11 in.	Prev. Dir.	SW	3 hr. Tend.	+1.1V	Wx	Wx	Wx
Ppn.	1 in.	Snow Depth	4 in.	Observer	JRC	Vis.	Vis.	Vis.
						7		

DEC 11 1962

0700 EST

Meteorological Observatory
University Park, Pa.

General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	21 °F	Dir.	SSW	Temp.	66.5°			
Min.	9 °F	Vel.	3 m.p.h.	Read.	28.690			
Set	9 °F	Char.	Light	Corr.	28.580	0700	1300	1900
R. H.	58 %	24 hr. Mov. <i>Estimated</i>	250	Sea L.	29.995	Clds. °/10 Ci	Clds.	Clds.
Ppn.	0 in.	Prev. Dir.	SW	3 hr. Tend.	+1.0mb	Wx	Wx	Wx
Ppn.	0 in.	Snow Depth	4 in.	Observer	M. K. S.	Vis.	Vis.	Vis.
						15		

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77°

DEC 12 1967

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 19 °F		Dir. WSW	Temp. 66	Ice crystal fog at obs. 0742E - Spectacular sun pillar. IC -- (0730 - 0830)		
Min. 0 °F		Vel. 3 m.p.h.	Read. 29.000			
Set 1 °F		Char. VERY LIGHT	Corr. 28.890			
R. H. 66 %		24 hr/Mov. 114	Sea L. 30.330	0700 Clds. 9/10 FC CLEAR	1300 Clds.	1900 Clds.
Ppn. Liq. .04 in.		Prev. Dir. WSW	3 hr. Tend. +2.0mb.1	Wx -	Wx	Wx
Ppn. Sol. .5 in.		Snow Depth 4 in.	Observer M.K.S.	Vis. 7	Vis.	Vis.

DEC 13 1952

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	15 °F	Dir. SSW	Temp. 63	INTMT 5-- 1430-1500		
Min.	0 °F	Vel. 6 m.p.h.	Read. 29.045	INTMT 6-- 1700-2200		
Set	0 °F	Char. Light & VARIABLE	Corr. 28.940	* COUNTER READ 274		
R. H.	51 %	24 hr. Mov. ESTIMATED 274	Sea L. 30.395	Clds. 0700 CLEAR	Clds. 1300	Clds. 1900
Ppn.	Liq. T in.	Prev. Dir. WSW	3 hr. Tend. STEADY	Wx -	Wx	Wx
Ppn.	Sol. T in.	Snow Depth 3 in.	Observer M.K.S.	Vis. 15	Vis.	Vis.

DEC 14 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.		Dir.	Temp.	 INTMT S-- 1200- 000 SW 1245		
10	°F	SW	67			
Min.		Vel.	Read.			
0	°F	10 m.p.h.	28.700			
Set		Char.	Corr.	0700	1300	1900
10	°F	GUSTY	28.587			
R. H.		24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
69	%	247	30.027	1/10 FC 1/10 AC		
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
0.01	in.	SW	-0.6	-		
Ppn.	Sol.	Snow Depth	Observer	Vis.	Vis.	Vis.
0.2	in.	3 in.	JRC	7		

DEC 15 1962

0700 EST

Meteorological Observatory
University Park, Pa.
General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	21 °F	Dir.	—	Temp.	70	SUMM S-- 1230-1700		
Min.	8 °F	Vel.	0 m.p.h.	Read.	28.860	SUMM S-- 1400-2200		
Set	13 °F	Char.	CALM	Corr.	28.739	0700	1300	1900
R. H.	73 %	24 hr. Mov.	155	Sea L.	30.159	Clds.	Clds.	Clds.
Ppn.	T in.	Prev. Dir.	W	3 hr. Tend.	-1.01	Wx	Wx	Wx
Ppn.	T in.	Snow Depth	2 1/2 in.	Observer	JRC	Vis.	Vis.	Vis.
						1/10 Ac		
						9/10 Ci		
						HAZE		
						5		

DEC 16 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind		Barom.		General Obs.		
Max.		Dir.		Temp.				
23	°F	—		71				
Min.		Vel.		Read.				
13	°F	0 m.p.h.		28.730				
Set		Char.		Corr.				
21	°F	CALM		28.607	0700	1300	1900	
R. H.		24 hr. Mov.		Sea L.	Clds.	Clds.	Clds.	
71	%	80		29.997	7/10 Ac 5/10 Cs			
Ppn.	Liq.	Prev. Dir.		3 hr. Tend.	Wx	Wx	Wx	
T	in.	S		+2.0/	S--			
Ppn.	Sol.	Snow Depth		Observer	Vis.	Vis.	Vis.	
T	in.	2 in.		JRC	3			

DEC 17 1962

0700 EST

Meteorological Observatory
University Park, Pa.
General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	30 °F	Dir.	SSW	Temp.	72			
Min.	20 °F	Vel.	7 m.p.h.	Read.	28.700			
Set	28 °F	Char.	Light & VARIABLE	Corr.	28.675	0700	1300	1900
R. H.	67 %	24 hr. Mov.	061	Sea L.	30.045	Clds.		Clds.
Ppn.	T in.	Prev. Dir.	WNW	3 hr. Tend.	-1.6mb.7	Wx		Wx
Ppn.	T in.	Snow Depth	2 in.	Observer	M.K.S.	Wx	Fog	Wx
				Observer	M.K.S.	Vis.	6	Vis.

DEC 13 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	34 °F	Dir. WSW	Temp. 74			
Min.	28 °F	Vel. 7 m.p.h.	Read. 28.900			
Set	32 °F	Char: Light	Corr. 28.770	0700	1300	1900
R. H.	76 %	24 hr. Mov. 133	Sea L. 30.130	Clds. 10/10 Sc	Clds.	Clds.
Ppn. Liq.	T in.	Prev. Dir. WSW	3 hr. Tend. +1.7mb. ↓	Wx -	Wx	Wx
Ppn. Sol.	T in.	Snow Depth 2 in.	Observer M.K.S.	Vis. 8	Vis.	Vis.

DEC 19 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind		Barom.	General Obs.		
Max.	36 °F	Dir.	WSW	Temp.	73		
Min.	28 °F	Vel.	3 m.p.h.	Read.	28.860		
Set	29 °F	Char.	VERY light	Corr.	28.730 Dewcell - 77% R.H.		
R. H.	88 %	24 hr. Mov.	049	Sea L.	Clds. 0700	Clds. 1300	Clds. 1900
Ppn.	0 in.	Prev. Dir.	WSW	3 hr. Tend.	-1.5mb. \		
Ppn.	0 in.	Snow Depth	2 in.	Observer	M.K.S.		
				Vis.	7		

DEC 20 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	47 °F	Dir. NW	Temp. 75.5°			
Min.	29 °F	Vel. 12 m.p.h.	Read. 29.030			
Set	32 °F	Char. Gusty	Corr. 28.895	* Dewcell - 579°		
				0700	1300	1900
R. H.	70 %	24 hr. Mov. 114	Sea L. 30.245	Clds. % Ci. 9/10 Sc	Clds.	Clds.
Ppn. Liq.	0 in.	Prev. Dir. WNW	3 hr. Tend. +2.0mb /	Wx -	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 1 (5) in.	Observer M.K.S.	Vis. 15+	Vis.	Vis.

DEC 21 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	32 °F	Dir. E	Temp. 73°			
Min.	10 °F	Vel. 6 m.p.h.	Read. 29.27			
Set	12 °F	Char. Light	Corr. 29.14			
R. H.	47 %	24 hr. Mov. 177	Sea L. 30.57	0700 Clds. 10%As + Ac	1300 Clds.	1900 Clds.
Ppn. Liq.	0 in.	Prev. Dir. N	3 hr. Tend. -1.0 mb. \	Wx -	Wx	Wx
Ppn. Sol.	0 in.	Snow Depth 1 (1/4) in.	Observer M.K.S.	Vis. 15+	Vis.	Vis.

DEC 22 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 24 °F	Dir. WSW	Temp. 72				
Min. 10 °F	Vel. 1 m.p.h.	Read. 28.40				
Set 24 °F	Char. <i>Very light E</i>	Corr. 28.28	* Estimated from WX <i>Map. Log</i>			
R. H. 85 %	24 hr. Mov. 86	Sea L. 29.66				
Ppn. Liq. .30 in.	Prev. Dir. E *	3 hr. Tgnd. -3.0	Wx FOG	<i>Changes in red pen are observed (M.K.S.)</i>		
<i>(7)</i> Ppn. 3.0 <i>2.5</i> in.	Snow Depth 3 in.	Observer JDV	Vis. 3 1/2	Vis.	Vis.	

Feb 23 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	35 °F	Dir. SW	Temp. 73	* Probably had trace, but no record of it.		
Min.	26 ²⁴ °F	Vel. 3 + 10 m.p.h.	Read. 28.64			
Set	33 °F	Char. light Gusty	Corr. 28.51			
R. H. **	80 %	24 hr. Mov. 172	Sea L. 29.97	0700 Clds. 10	1300 Clds.	1900 Clds.
Ppn. Lic#	0 in.	Prev. Dir. WSW	3 hr. Tend. -2.0	Wx —	Wx Change in red pen observed	Wx (M.K.S.)
Ppn. Sol#	0 in.	Snow Depth 3 in.	Observer JOU	Vis. 12	Vis. red pen observed	Vis.

DEC 24 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	39 °F	Dir. WSW	Temp. 72	* Probably had trace, but no record of it.		
Min.	12 °F	Vel. 12 m.p.h.	Read. 29.38			
Set	13 °F	Char. Foggy	Corr. 29.25			
R. H.	70 %	24 hr. Mov. 5.19 2.00	Sea L. 30.69	0700 Clds. 7/10	1300 Clds.	1700 Clds. (M.K.S.)
Ppn.	0 in.	Prev. Dir. WSW	3 hr. Tend. +3.5	Wx -	Changes in red pen are observer's (M.K.S.)	
Ppn.	0 in.	Snow Depth (13/4) 2 in.	Observer JDU	Vis. 15+	Vis.	Vis.

DEC 25 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	22 °F	Dir. SE	Temp. 71			
Min.	12 °F	Vel. 2 m.p.h.	Read. 29.47			
Set	18 °F	Char. Light Gusty	Corr. 29.35			
R. H. ^{at 70}	30 %	24 hr. Mov. 72	Sea L. 30.77	0700 Clds. -	1300 Clds.	1900 Clds. (H.K.)
Ppn. Liq. ^{Trace}	in.	Prev. Dir. SE	3 hr. Tend. 1.0	Wx Light Snow	Wx <i>change in red pen</i>	Wx <i>change in red pen</i>
Ppn. Sol. ^{0.1}	in.	Snow Depth 2 in.	Observer J.D.V.	Vis. 1 mi	Vis. <i>change in red pen</i>	Vis. <i>change in red pen</i>

DEC 28 1952

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	31 °F	Dir. SSW	Temp. 72			
Min.	18 °F	Vel. 1 m.p.h.	Read. 28.90			
Set	31 °F	Char. VERY Light	Corr. 28.77	Dewcell 77%		
R. H.	70 %	24 Hr. Mov. 27	Sea L. 30.15	Clds. 0700 10/10	Clds. 1300	Clds. 1400
Ppn. Liq.	.05 in.	Prev. Dir. SSW	3 hr. Tend. -2.0V	Wx SNOW	Wx	Wx
Ppn. Sol.	0.5 in.	Snow Depth 2 3/4 in.	Observer JDV	Vis. 4	changes in red pen observed (M.K.S.)	

DEC 27 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	33 °F	Dir. -	Temp. 71.5°	FREEZING DRIZZLE AND SW-- Snow 1130 to 1230. SW- (1555 - 1700E)		
Min.	7 °F	Vel. 0 m.p.h.	Read. 29.190			
Set	8 °F	Char. CALM	Corr. 29.065			
R. H.	87 %	24 hr. Mov. 077	Sea L. 30.495	0700	1300	1900
Ppn.	T in.	Prev. Dir. WSW	3 hr. Tend. 10.226 ✓	Clds. CLEAR	Clds.	Clds.
Ppn.	T in.	Snow Depth 2 in.	Observer M.K.S.	Wx -	Wx	Wx
				Vis. 10	Vis.	Vis.

DEC 28 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	27 °F	Dir. W	Temp. 71			
Min.	6 °F	Vel. 8 m.p.h.	Read. 29.120			
Set	25 °F	Char. VARIABLE	Corr. 28.995			
R. H.	74 %	24 hr. Mov. 088	Sea L. 30.395	0700 Clds. 10/10 Sc	1300 Clds.	1900 Clds.
Ppn.	Liq. T in.	Prev. Dir. WSW	3 hr. Tend. +2.0ab. /	Wx -	Wx	Wx
Ppn.	Sol. T in.	Snow Depth 2 in.	Observer M.K.S.	Vis. 10	Vis.	Vis.

DEC 29 1952

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 32 °F	Dir. SE	Temp. 72	2327E - Gust to 43mph			
Min. 19 °F	Vel. 9 m.p.h.	Read. 28.98				
Set 27 °F	Char. Gusty	Corr. 28.85				
R. H. 67 %	24 hr. Mov. 82	Sea L. 30.23	0700 Clds. 10/10	1300 Clds.	1900 Clds.	
Ppn. Liq. 0 in.	Prev. Dir. <i>Estimated</i> ESE	3 hr. Tend. -2 \	Wx -	Wx -	Wx -	
Ppn. Sol. 0 in.	Snow Depth 1 3/4 in.	Observer JDV	Vis. 12	Vis.	Vis.	

DEC 30 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	32 °F	Dir. W	Temp. 65			
Min.	12 °F	Vel. 14 m.p.h.	Read. 28.90			
Set	12 °F	Char. Gusty	Corr. 28.79	<i>* Estimated from Recorder</i>		
R. H.	60 %	24 hr. Mov. 387 210	Sea L. 30.19	Clds. 10	Clds.	Clds.
Prev. Dir.	28	Prev. Dir. W	3 hr. Tend. 3 ✓	Wx -	Wx	Wx
Ppn.	0 in.	Snow Depth 5 3/4 in.	Observer JDV	Vis. 15+	Vis.	Vis.

Estimated
↓

DEC 31 1962

0700 EST

Meteorological Observatory
University Park, Pa.

Temp.		Wind		Barom.	General Obs.		
Max.	°F	Dir.		Temp.			
16		WNW		64			
Min.	°F	Vel.		Read.			
-3		14 m.p.h.		28.95			
Set	°F	Char.		Corr.	<i>*Estimated from Recorder</i>		
-3		Brisk		28.85			
R. H.	%	24 hr. Mov.		Sea L.	0700	1300	1900
54		WN		30.31	Clds. D/D CLEAR	Clds.	Clds.
Ppn.	Liq. in.	Prev. Dir. *		3 hr. Tend.	Wx	Wx	Wx
T		470 328		+1 /	-		
Ppn.	Sol. in.	Snow Depth		Observer	Vis.	Vis.	Vis.
T		5 1/2 in.		JDV	15+		