

APR 1 1951

0700 EST

State College  
General Obs.

Temp.		Wind	Barom.	10101 0200-2300		
Max.	49 ° F	Dir. calm	Temp. 76			
Min.	36 ° F	Vel. - m.p.h.	Read. 28.68			
Set	40 ° F	Char. —	Corr. 28.54	0700	1300	1900
R. H.	92 %	24 hr. Mov. 150	Sea L. 29.82	Clds. 10As 2Fs	Clds. 10AsA	Clds. 10Sc
Ppn. Liq.	T in.	Prev. Dir. SW	3 hr. Tend. +3	Wx ∇	Wx ∇	Wx ∇
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer 95	Vis. 13	Vis. 17	Vis. 10

APR 8 1951

0700 EST

State College, Pa.  
General Obs.

Temp.		Wind	Barom.			
Max.	Dir.	Temp.				
49 ° F	SW	78				
Min.	Vel.	Read.				
35 ° F	8 m.p.h.	28.69				
Set	Char.	Corr.	0700	1300	1900	
35 ° F	light gusts	28.55	Clds.	Clds.	Clds.	
R. H.	24 hr. Mov.	Sea L.	9+AsA 6 Sc	10 ALAS 6 Sc	10 ALAS 8 Sc	
75 %	130	29.84	Wx	Wx	Wx	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.				
.39 in.	SW	+20				
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
- in.	- in.	JS	17	12	12	

APR 3 1951

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.			
Max.	Dir.	Temp.	28.49	† 0945-1245 * 1230+1630 † 1630-2400		
45 ° F	NW	90				
Min.	Vel.	Read.				
35 ° F	7 m.p.h.	28.49				
Set	Char.	Corr.		0700	1300	1900
36 ° F	STDY	28.34				
R. H.	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.	
70 %	122	29.64	9+ALAS	9+Sc	10Sc	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
— in.	W	+1 ✓				
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	ONE.	12	15+	15	

APR 4 1951

0700 EST

State College, Pa.

General Obs.

Temp.		Wind		Barom.		135° 0000 - 1000		
Max.	41 ° F	Dir.	WSW	Temp.	78	135° 1345 - 1800		
Min.	34 ° F	Vel.	10 m.p.h.	Read.	28.56			
Set	35 ° F	Char.	STOY	Corr.	28.41	0700	1300	1900
R. H.	92 %	24 hr. Mov.	243	Sea L.	29.72	Clds.	Clds.	Clds.
Ppn.	T in.	Prev. Dir.	W	3 hr. Tend.	+12	10 SC	10 SC	10 SC
Ppn.	T in.	Grnd. Cur.	— in.	Observer	ON.E.	Wx	Wx	Wx
						12	15	15

APR 5 1951

0700 EST

State College, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	41 ° F	Dir. WNW	Temp. 74			
Min.	35 ° F	Vel. 6 m.p.h.	Read. 28.70			
Set	38 ° F	Char. STDY	Corr. 28.57	0700	1300	1900
R. H.	78 %	24 hr. Mov. 181	Sea L. 29.87	Clds. 9+SC	Clds. 21AS 3CU	Clds. NONE
Ppn. Liq.	T in.	Prev. Dir. SW	3 hr. Tend. +14	Wx	Wx	Wx
Ppn. Sol.	T in.	Grnd. Cur. — in.	Observer D.W.E.	Vis. 12	Vis. 15	Vis. 20

APR 6 1951

0700 EST

Meteorological Observatory ✓

State College, Pa.

General Obs.

Temp.		Wind	Barom.			
Max.		Dir.	Temp.	<div style="text-align: right;"> <span style="font-size: 2em;">⊙</span> 1725  DEN </div>		
55 ° F		S	75			
Min.		Vel.	Read.			
36 ° F		2 m.p.h.	28.88			
Set		Char.	Corr.	0700	1300	1900
39 ° F		LGT VRBL	28.75	Clds.	Clds.	Clds.
R. H.		24 hr. Mov.	Sea L.	< 1 As	NONE	8 Cs
66 %		181	30.05	Wx	Wx	Wx
Ppn. Liq.		Prev. Dir.	3 hr. Tend.	≡ <sup>0</sup>		
— in.		NW	+ 4	Vis.	Vis.	Vis.
Ppn. Sol.		Grnd. Cur.	Observer	15	20	15
— in.		— in.	ONE.			

✓ APR 7 1951

0700 EST

Meteorology State College, Pa.

General Obs.

0930

Temp.		Wind	Barom.			
Max.	65 °F	Dir.	Temp.			
		-	78			
Min.	34 °F	Vel.	Read.			
		- m.p.h.	28.76			
Set	38 °F	Char.	Corr.	0700	1300	1900
		CALM	28.62	Clds.	Clds.	Clds.
R. H.	86 %	24 hr. Mov.	Sea L.	9 Ci	< 1 Ci	3 Ci
		50	29.92	Wx	Wx	Wx
Ppn. Liq.	- in.	Prev. Dir.	3 hr. Tend.	≡°		
		E	+3 ✓	Vis.	Vis.	Vis.
Ppn. Sol.	- in.	Grnd. Cur.	Observer	15	15	15
		- in.	W.E.			

APR 3 1951

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	69 ° F	Dir. NE	Temp. 80			
Min.	38 ° F	Vel. 5 m.p.h.	Read. 28.54			
Set	51 ° F	Char. STDY	Corr. 28.39	0700	1300	1900
R. H.	63 %	24 hr. Mov. III	Sea L. 29.66	Clds. 10 Ci 6 As	Clds. 10 As	Clds. 10 As
Ppn. Liq.	— in.	Prev. Dir. NE	3 hr. Tend. +5	Wx ≡°	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer O.V.L.	Vis. 13	Vis. 15	Vis. 12



APR 9 1951

0700 EST

Station

General Obs.

Temp. Max.	60 ° F	Wind Dir.	S	Temp.	79
Temp. Min.	46 ° F	Wind Vel.	3 m.p.h.	Read.	28.57
Temp. Set	46 ° F	Wind Char.	STDY	Corr.	28.43
R. H.	87 %	24 hr. Mov.	127	Sea L.	29.71
Ppn. Liq.	T in.	Prev. Dir.	S	3 hr. Tend.	+0
Ppn. Sol.	— in.	Grnd. Cur.	— in.	Observer	ONE.

30 0030 - 0200  
 30 0430 - 1030  
 00 1650 - 2400

	0700	1300	1900
Clds.	10As	10As	10AsNs
Wx	°		°
Vis.	12	10	10

APR 10 1951

0700 EST

Meteorological Observatory,  
State College, Pa.

General Obs.

Temp.		Wind	Barom.			
Max.		Dir.	Temp.	0000 - 0405 .°		
56 °F		NE	78	1030 - 1330 .°		
Mn.		Vel.	Read.	2200 - 2400 .°		
40 °F		5 m.p.h.	28.54			
Set		Char.	Corr.			
41 °F		steady	28.40			
R. H.		24 hr. Mov.	Sea L.	0700	1300	1900
100 %		100	29.69	Clds.	Clds.	Clds.
				9As/1st	10 As	2Sc
Ppn. Liq.		Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
0.14 in.		SW	+03	=		
Ppn. Sol.		Grnd. Cur.	Observer	Vis.	Vis.	Vis.
— in.		— in.	GPH	4	8	10

APR 1 1951

0700 EST

State College, Pa.  
General Obs.

0000-0030 °°

Temp.		Wind	Barom.			
Max.		Dir.	Temp.			
54 °F		SW	76			
Min.		Vel.	Read.			
38 °F		10 m.p.h.	28.69			
Set		Char.	Corr.	0700	1300	1900
40 °F		Gusty	28.55	Clds.	Clds.	Clds.
R. H.		24 hr. Mov.	Sea L.	10Sc	6Sc	10Cs
80 %		132	29.84	Wx	Wx	Wx
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.			
0.06 in.		SW	+20J			
Ppn.	Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.
			GPH.	9	10	10
	in.	in.				

APR 12 1951

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.	<p>030-035 - 0° <i>E gust 30kts</i>  <i>1415</i>          0345-0610 - 0°          0830-1530 - 0°          1530-1600 - 12°          1600-1830 - 1°</p>		
Max.	58 °F	Dir. NE	Temp. 75			
Min.	40 °F	Vel. 10 m.p.h.	Read. 28.55			
Set	49 °F	Char. Busty (15)	Corr. 28.42	0700	1300	1900
R. H.	70 %	24 hr. Mov. 140	Sea L. 29.69	Clds. 6A <sub>3</sub> 4A <sub>2</sub>	Clds. 10N <sub>5</sub>	Clds. 10N <sub>5</sub>
Ppn. Liq.	0.01 in.	Prev. Dir. SW	3 hr. Tend. -30\	Wx	Wx 0'	Wx 0'
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer GPH.	Vis. 15	Vis. 3	Vis. 6

Meteorological Observatory  
State College, Pa.

APR 13 1951

0700 EST

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.	1430 - 2000 101°			
51 °F	—	74				
Min.	Vel.	Read.				
36 °F	Calm m.p.h.	28.40				
Set	Char.	Corr.				
40 °F		28.27				
R. H.	24 hr. Mov.	Sea L.	0700	1300	1900	
80 %	150	29.56	Clds.	Clds.	Clds.	
			10 AsA	10Ns	10Ns	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
0.75 in.	SW	+00		.	∅	
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	GPH	25	6	10	

APR 14 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.	0000 - 0900 101° 0900 - 1830 .°			
51 °F	SW	70				
Mtn.	Vel.	Read.				
37 °F	8 m.p.h.	28.32				
Set	Char.	Corr.				
38 °F	Gvity	28.20	0700	1300	1900	
R. H.	24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.	
98 %	190	29.49	10Ns	10Ns	10Sc	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
0.14 in.	SW	+10V	☼	•°		
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	C.A.H.	20	5	12	

APR 15 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.	<div style="text-align: right;"> <math>\nabla^{\circ}</math> 0530-0600                      0900-1300                      c. w. 35                 </div>			
47 ° F	SSW	78				
Min.	Vel.	Read.				
38 ° F	7 m.p.h.	28.34				
Set	Char.	Corr.				
47 ° F	STDY	28.20				
R. H.	24 hr. Mov.	Sea L.	0700	1300	1900	
66 %	155	29.48	Clds.	Clds.	Clds.	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	10 Ac	7 Cu	2 Cu	
0.06 in.	SW	-40	Wx	Wx	Wx	
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	ONL.	15	20	2P	

Temp.		Wind	Barom.	General Obs.		
Max. 55 ° F	Dir. SW	Temp. 80	0845 ☽ ▽ 1330-1345 * 1515-1530 ▽ 1930-2100			
Min. 35 ° F	Vel. 7 m.p.h.	Read. 28.68				
Set 37 ° F	Char. unsteady	Corr. 28.53				
R. H. 78 %	24 hr. Mov. 270'	Sea L. 29.82	0700 Clds. 9Ac	1300 Clds. 10Sc	1900 Clds. 9Sc	
Ppn. Liq. — in.	Prev. Dir. SW	3 hr. Tend. +02	Wx	Wx	Wx	
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer GPH.	Vis. 20	Vis. 15	Vis. 10	



APR 17 1951

0700 EST

Meteorological Observatory

State College, Pa.

General Obs.

Temp.		Wind	Barom.			
Max.	Dir.	Temp.	1*1° 0500 - 1800			
45 ° F	WSW	70				
Min.	Vel.	Read.				
32 ° F	6 m.p.h.	28.73				
Set	Char.	Corr.	0700	1300	1900	
33 ° F	steady	28.61	Clds.	Clds.	Clds.	
R. H.	24 hr. Mov.	Sea L.	10Sc	10ScCB	9ScFs	
84 %	230	29.91	Wx *°	Wx *°	Wx	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	▽	▽		
T in.	SW	+10				
Ppn. Sol.	Grnd. Cur.	Observer	Vis. 17	Vis. 20	Vis. 17	
T in.	- in.	95				

APR 18 1951

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	43 ° F	Dir. SW	Temp. 76			
Min.	31 ° F	Vel. 3 m.p.h.	Read. 28.97			
Set	33 ° F	Char. steady	Corr. 28.84	0700	1300	1900
R. H.	92 %	24 hr. Mov. 175	Sea L. 30.14	Clds. 7C, Cs	Clds. 2C, Cs	Clds. 6C, Cs
Ppn.	T in.	Prev. Dir. SW	3 hr. Tend. +15	Wx	Wx	Wx
Ppn.	T in.	Grnd. Cur. - in.	Observer JS	Vis. 10	Vis. 17	Vis. 20

APR 10 1951

0700 EST

General Obs.

Temp.		Wind	Barom.	0500-0600		
Max.	Dir.	Temp.				
57 ° F	SW	76				
Min.	Vel.	Read.				
33 ° F	12 m.p.h.	28.62				
Set	Char.	Corr.				
53 ° F	gusty	28.49				
R. H.	24 hr. Mov.	Sea L.	0700	1300	1900	
68 %	195	29.75	Clds.	Clds.	Clds.	
			10Sc	6Sc	clear	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
T in.	S	+7				
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
- in.	- in.	95	18	10	20	

APR 20 1951

0700 EST

Meteorological Observatory,  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.			
Max.	62 °F	Dir. NW	Temp. 74			
Min.	32 °F	Vel. 6 m.p.h.	Read. 29.00			
Set	34 °F	Char. steady	Corr. 28.87	0700	1300	1900
R. H.	82 %	24 hr. Mov. 225	Sea L. 30.14	Clds. none	Clds. none	Clds. none
Ppn. Liq.	- in.	Prev. Dir. SW	3 hr. Tend. + M	Wx	Wx	Wx
Ppn. Sol.	- in.	Grnd. Cur. -	Observer JS	Vis. 20	Vis. 22	Vis. 20

APR 21 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.				
57 ° F	calm	78				
Min.	Vel.	Read.				
32 ° F	- m.p.h.	29.22				
Set	Char.	Corr.				
38 ° F	-	29.08				
R. H.	24 hr. Mov.	Sea L.	0700	1300	1900	
64 %	110	30.36	Clds.	Clds.	Clds.	
			1 C1	4C1C5	10C1C5	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
- in.	NW	+12				
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
- in.	- in.	95	20	17	14	

APR 22 1951

0700 EST

State College, Pa.

General Obs.

Temp.		Wind	Barom.	0900 - 2400		
Max.	63 ° F	Dir. S	Temp. 76			
Min.	38 ° F	Vel. 7 m.p.h.	Read. 28.98			
Set	50 ° F	Char. steady	Corr. 28.85			
R. H.	80 %	24 hr. Mov. 140	Sea L. 30.11	0700	1300	1900
Ppn.	Liq. — in.	Prev. Dir. SE	3 hr. Tend. -2	Clds. 9-AsAc	Clds. 10 Sc	Clds. 10 Sc
Ppn.	Sol. — in.	Grnd. Cur. — in.	Observer RS	Wx	Wx ∇°	Wx ∇°
				Vis. 18	Vis. 3	Vis. 5

APR 23 1951

0700 EST

Meteorological  
State College, Pa.

General Obs.

Temp.		Wind	Barom.			
Max.		Dir.	Temp.			
55 ° F		NW	76			
Min.		Vel.	Read.			
35 ° F		10 m.p.h.	29.10			
Set		Char.	Corr.			
35 ° F		gusty	28.97	0700	1300	1900
R. H.		24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
62 %		260	30.25	1 Fc	< 1 FL	NONE
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
.61 in.		S	+28			
Ppn.	Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.
- in.		- in.	95	25	25	20

✓

APR 24 1951

0700 EST

Meteorological Observatory  
State College, Pa.

General Obs.

Temp.		Wind	Barom.	1600		
Max.		Dir.	Temp.			
55 ° F		—	74			
Min.		Vel.	Read.			
35 ° F		— m.p.h.	29.22			
Set		Char.	Corr.			
40 ° F		CALM	29.09	0700	1300	1900
R. H.		24 hr. Mov.	Sea L.	Clds.	Clds.	Clds.
74 %		159	30.39	3 FL	7 AL	10 CS 2 AS
Ppn.	Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx
—	in.	W	+20	≡ °		
Ppn.	Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.
—	in.	— in.	W.E.	12	15	15



✓ APR 25 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 66 ° F	Dir. E	Temp. 77	29.05	↓° 0530 - 0600 ↓° 0815 - 0850  ↓°  0930 - 1030		
Min. 40 ° F	Vel. 5 m.p.h.	Read.				
Set 50 ° F	Char. VRBL	Corr. 28.91				
R. H. 61 %	24 hr. Mov. 120	Sea L. 30.18	0700 Clds. 10AcAs	1300 Clds. 10 Ci 21 Cu	1900 Clds. 10 Ci 21 Cu	
Ppn. Liq. T in.	Prev. Dir. S	3 hr. Tend. +11	Wx	Wx	Wx	
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer M.L.	Vis. 14	Vis. 14	Vis. 14	

✓ APR 26 1951

0700 EST

Meteorological Observatory ✓  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 74 °F	Dir. WSW	Temp. 79		☽ 0030 - 0500 ☽ 0215 ☉ 1300		
Min. 50 °F	Vel. 7 m.p.h.	Read. 28.92				
Set 61 °F	Char. STDY	Corr. 28.78		0700	1300	1900
R. H. 81 %	24 hr. Mov. 178	Sea L. 30.02		Clds. 7ALAS 5CU	Clds. 10CS 41ALAS	Clds. 10CS 6AS
Ppn. Liq. 0.13 in.	Prev. Dir. S	3 hr. Tend. +25		Wx	Wx	Wx
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer M.E.		Vis. 9	Vis. 14	Vis. 12

✓ APR 27 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	62 ° F	Dir. —	Temp. 78			
Min.	37 ° F	Vel. — m.p.h.	Read. 29.24			
Set	43 ° F	Char. CALM	Corr. 29.10			
R. H.	88 %	24 hr. Mov. 122	Sea L. 30.39	0700 Clds. NONE	1300 Clds. none	1900 Clds. 30;
Ppn. Liq.	— in.	Prev. Dir. N	3 hr. Tend. +20	Wx ≡°	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer AVE.	Vis. 12	Vis. 20	Vis. 20

✓ APR 28 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 70 ° F	Dir. SSW	Temp. 78		1015-1140	0°	
Min. 43 ° F	Vel. 15 m.p.h.	Read. 29.10		1550-1620	18	
Set 53 ° F	Char. Gusty	Corr. 28.96		2010-2030	18	
R. H. 56 %	24 hr. Mov. 120	Sea L. 30.23	0700	1300	1900	
Ppn. Liq. — in.	Prev. Dir. S	3 hr. Tend. 00	Clds. 6c, 3sc	Clds. 2sc	Clds. 1c; 2cu	
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer BPH.	Wx	Wx	Wx	
			Vis. 25	Vis. 20	Vis. 20	

APR 29 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.	0130 - 0430 $\bar{F}$ 1415 - 1445 $\bar{F}$ 1610 - 1620 $\bar{F}$ 1620 - 1745 $\bar{F}$ 2005 - 2130 $\bar{F}$			
65 °F	SW	79				
Min.	Vel.	Read.				
52 °F	10 m.p.h.	28.78				
Set	Char.	Corr.				
57 °F	steady	28.64				
R. H.	24 hr. Mov.	Sea L.	0700	1300	1900	
100 %	200	29.91	Clds.	Clds.	Clds.	
			9 Cc, 1 Ac	9 + Cu	9 + As 2 Sc	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.	Wx	Wx	Wx	
0.26 in.	SW	+8.1				
Ppn. Sol.	Grnd. Cur.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	GP/6	20	20	12	

APR 30 1951

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	80 ° F	Dir. NNE	Temp. 80			
Min.	54 ° F	Vel. 5 m.p.h.	Read. 28.91			
Set	58 ° F	Char. STDY	Corr. 28.76			
R. H.	92 %	24 hr. Mov. 148	Sea L. 30.01	0700 Clds. SCU	1300 Clds. 1Sc	1900 Clds. 7Ci
Ppn. Liq.	0.37 in.	Prev. Dir. SW	3 hr. Tend. +41	Wx ≡°	Wx	Wx
Ppn. Sol.	T in.	Grnd. Cur. - in.	Observer W.E.	Vis. 8	Vis. 15	Vis. 15