

JUN 1 1964

0700 EST

Meteorological Observatory  
State College, Pa.

General Obs.

Temp.		Wind		Barom.		General Obs.		
Max.	85 ° F	Dir.	Calm	Temp.	78	A B 1315 - 2400		
Min.	57 ° F	Vel.	Calm m.p.h.	Read.	28.78	1300 - PEAK GUSTS TO 1500 57 KNOTS		
Set	68 ° F	Char.	Calm	Corr.	28.64	VERY LARGE HAIL 1330		
R. H.	84 %	24 hr. Mov.	110	Sea L.	29.86	0700	1300	1900
Ppn.	— in.	Prev. Dir.	SW	3 hr. Tend.	— 00	Clds.	Clds.	Clds.
Ppn.	— in.	Grnd. Cur.	— in.	Observer	CAW	10CiAc	9CuCg	10CuCg
				Observer	CAW	Wx	Wx	Wx
				Observer	CAW	(v)	(v)	R
				Observer	CAW	Vis.	Vis.	Vis.
				Observer	CAW	15	8	3

69

JUN 2 1954

0700 EST

State College, Pa.

General Obs.

Temp.		Wind	Barom.	↓ 0315 - 0400		
Max.	86 ° F	Dir. SW	Temp. 75			
Min.	59 ° F	Vel. 10 m.p.h.	Read. 28.55			
Set	60 ° F	Char. Steady	Corr. 28.42	0700	1300	1900
R. H.	85 %	24 hr. Mov. 138	Sea L. 29.66	Clds. 10 Sc	Clds. 9 Sc	Clds. 8 Sc
Ppn. Liq.	1.11 in.	Prev. Dir. SW	3 hr. Tend. +20	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 15	Vis. 15	Vis. 15

62

JUN 3 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 67 ° F	Dir. Calm	Temp. 78	R <sub>s</sub> 2050 - 2400			
Min. 49 ° F	Vel. Calm m.p.h.	Read. 28.65				
Set 55 ° F	Char. Calm	Corr. 28.51				
R. H. 80 %	24 hr. Mov. 154	Sea L. 29.77	0700 Clds. 10 Sc	1300 Clds. 4 Cu Cg	1900 Clds. Cu 7 Cb Cg	
Ppn. Liq. — in.	Prev. Dir. NW	3 hr. Tend. +05	Wx =	Wx	Wx	
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer CAW	Vis. 7	Vis. 15	Vis. 15	

56

JUN 4 1954

0700 EST

State College, Pa.  
General Obs.

Temp.		Wind	Barom.	0130-0300 0700      1300      1900 Clds.      Clds.      Clds. Fe 5 Cu      6 Cu      8 Sc Cu Wx      Wx      Wx Vls.      Vls.      Vls. 20+      20+      20+		
Max.	Dir.	Temp.				
74 ° F	SW	78				
Min.	Vel.	Read.				
55 ° F	3 m.p.h.	28.55				
Set	Char.	Corr.				
61 ° F	Steady	28.41				
R. H.	24 hr. Mov.	Sea L.				
82 %	79	29.65				
Ppn. Liq.	Prev. Dir.	3 hr. Tend.				
0.58 in.	W	+15				
Ppn. Sol.	Grnd. Cur.	Observer				
— in.	— in.	CAW				

61

JUN 5 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	67 ° F	Dir. NW	Temp. 77	9 0610 - 0800		
Min.	50 ° F	Vel. 5 m.p.h.	Read. 28.75	9 1800 - 1900		
Set	50 ° F	Char. Steady	Corr. 28.61			
R. H.	88 %	24 hr. Mov. 16v	Sea L. 29.87	0700 Clds. 10 Sc	1300 Clds. 9 Sc	1900 Clds. 9 Sc
Ppn. Liq.	T in.	Prev. Dir. N	3 hr. Tend. +20	Wx ?	Wx	Wx ?
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 15	Vis. 15	Vis. 15

53

JUN 8 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	60 ° F	Dir. N	Temp. 76			
Min.	50 ° F	Vel. 6 m.p.h.	Read. 28.88			
Set	56 ° F	Char. Steady	Corr. 28.74			
R. H.	63 %	24 hr. Mov. 184	Sea L. 30.00	0700	1300	1900
Ppn. Liq.	T in.	Prev. Dir. N	3 hr. Tend. +25	Clds. 2 Ci	Clds. 3 Cs Cu	Clds. 2 Cs
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Wx	Wx	Wx
				Vis. 15	Vis. 15+	Vis. 15+

53

JUN 7 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	70 ° F	Dir. SW	Temp. 77			
Min.	45 ° F	Vel. 3 m.p.h.	Read. 28.95			
Set	57 ° F	Char. Steady	Corr. 28.81			
R. H.	66 %	24 hr. Mov. 168	Sea L. 30.08	0700	1300	1900
Ppn. Liq.	— in.	Prev. Dir. NW	3 hr. Tend. +10	Clds. Clear	Clds. Clear	Clds. 3CsFc
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Wx	Wx	Wx
				Vis. 20+	Vis. 20+	Vis. 20+

52

JUN 8 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	79 ° F	Dir. Calm	Temp. 75			
Min.	52 ° F	Vel. Calm m.p.h.	Read. 28.87			
Set	65 ° F	Char. Calm	Corr. 28.74			
R. H.	62 %	24 hr. Mov. 100	Sea L. 30.12	0700 Clds. 4 Cs	1300 Clds. 2 Cs Ci	1900 Clds. 3 Cs
Ppn. Liq.	— in.	Prev. Dir. NW	3 hr. Tend. +10	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+

60



JUN 9 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 84 ° F	Dir. Calm	Temp. 79	(R) 1730-1830			
Min. 59 ° F	Vel. Calm m.p.h.	Read. 28.96				
Set 64 ° F	Char. Calm	Corr. 28.82				
R. H. 76 %	24 hr. Mov. 54	Sea L. 30.06	0700 Clds. 10 AcAs	1300 Clds. 3 Cs Fc	1900 Clds. 6 Cs Ci	
Ppn. Liq. — in.	Prev. Dir. N	3 hr. Tend. +15'	Wx	Wx	Wx	
Ppn. Sol. — in.	Grnd. Cur. — in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+	

64

JUN 10 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	83 ° F	Dir. NW	Temp. 79	☽ 1130-1145 ☽ 2330-2400		
Min.	64 ° F	Vel. 3 m.p.h.	Read. 28.92			
Set	69 ° F	Char. Steady	Corr. 28.78	0700	1300	1900
R. H.	93 %	24 hr. Mov. 68	Sea L. 30.00	Clds. 10 ST	Clds. 6 <sup>Cs</sup> Cu Cg	Clds. 9 <sup>Cs Fc</sup> As Cb
Ppn. Liq.	— in.	Prev. Dir. W	3 hr. Tend. +05	Wx ≡	Wx	Wx (☽)
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 4	Vis. 12	Vis. 7

69

JUN 11 1954

0700 EST

Meteorological Observatory  
State College, Pa.

General Obs.

Temp.		Wind	Barom.	R <sub>g</sub> 0000 - 0300		
Max.	87 ° F	Dir. SW	Temp. 78			
Min.	64 ° F	Vel. 3 m.p.h.	Read. 28.83			
Set	68 ° F	Char. Steady	Corr. 28.69			
R. H.	92 %	24 hr. Mov. 112	Sea L. 29.92	0700	1300	1900
Ppn. Ltq.	0.23 in.	Prev. Dir. SW	3 hr. Tend. +05	Clds. 7CiCs	Clds. 7CuCgCs	Clds. 5Cs Cu
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Wx (≡)	Wx	Wx
				Vis. 6	Vis. 15+	Vis. 15+

67

Meteorological Observatory  
State College, Pa.

JUN 12 1954

0700 EST

Temp.		Wind	Barom.	General Obs.		
Max.	88 ° F	Dir. Calm	Temp. 74	7 0000 - 0300 9 2330 - 2400		
Min.	60 ° F	Vel. Calm m.p.h.	Read. 28.95			
Set	67 ° F	Char. Calm	Corr. 28.82			
R. H.	79 %	24 hr. Mov. 92	Sea L. 30.05	0700 Clds. 6CiCs	1300 Clds. 6ScCu	1900 Clds. 7ScAs
Ppn.	Liq. T in.	Prev. Dir. N	3 hr. Tend. +25	Wx 00	Wx	Wx
Ppn.	Sol. — in.	Grnd. Cur. — in.	Observer CAW	Vis. 7	Vis. 15	Vis. 15

66

JUN 18 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 88 ° F		Dir. SW	Temp. 77	↓ 0000 - 0100 ↓ 0100 - 0200 ↓ 0200 - 0600 ↓ 0600 - 0700		
Min. 65 ° F		Vel. 2 m.p.h.	Read. 28.90			
Set 68 ° F		Char. Steady	Corr. 28.76			
R. H. 92 %		24 hr. Mov. 101	Sea L. 29.98			
Ppn. Liq. 0.11 in.		Prev. Dir. SW	3 hr. Tend. +0.5"	Clds. 10 Sc	Clds. 9 CsCu	Clds. 5 CiFc
Ppn. Sol. - in.		Grnd. Cur. - in.	Observer CAW	Wx	Wx	Wx
				Vis. 15+	Vis. 15+	Vis. 15+

70

JUN 14 1954

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	87 ° F	Dir. Calm	Temp. 75			
Min.	58 ° F	Vel. Calm m.p.h.	Read. 28.97			
Set	68 ° F	Char. Calm	Corr. 28.84	0700	1300	1900
R. H.	74 %	24 hr. Mov. 76	Sea L. 30.07	Clds. 6 Ci	Clds. 6 Ci Cs Fc	Clds. 6 Cu Cs
Ppn. Liq.	—	Prev. Dir. NW	3 hr. Tend. +10	Wx	Wx	Wx
Ppn. Sol.	—	Grnd. Cur. —	Observer CAW	Vis. 15+	Vis. 15+	Vis. 15+

66

JUN 15 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	87 ° F	Dir. Calm	Temp. 79	☀ 0840-1200 ☁ 1345-1500		
Min.	62 ° F	Vel. Calm m.p.h.	Read. 28.92			
Set	70 ° F	Char. Cal-	Corr. 28.78			
R. H.	78 %	24 hr. Mov. 39	Sea L. 30.01	0700 Clds. 6 Cs	1300 Clds. Fc 10CgCb	1900 Clds. Fc 9CgCb
Ppn. Liq.	— in.	Prev. Dir. W	3 hr. Tend. +00	Wx	Wx (v)	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 15+	Vis. 5	Vis. 10

68

JUN 18 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	75 ° F	Dir. S	Temp. 76			
Min.	65 ° F	Vel. 3 m.p.h.	Read. 28.95			
Set	65 ° F	Char. Steady	Corr. 28.81			
R. H.	96 %	24 hr. Mov. 68	Sea L. 30.04	0700 Clds. 10 st	1300 Clds. 10 st	1900 Clds. 10 st
Ppn. Liq.	0.61 in.	Prev. Dir. S	3 hr. Tend. +10	Wx (≡)	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 5	Vis. 8	Vis. 8

67



JUN 17 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 66 ° F		Dir. S	Temp. 76	9 1130-1300 9 1430-2300 9 2330-2400		
Min. 56 ° F		Vel. 2 m.p.h.	Read. 29.15			
Set 56 ° F		Char. Steady	Corr. 29.01			
R. H. 68 %		24 hr. Mov. 144	Sea L. 30.26	0700 Clds. 10 Sc	1300 Clds. 10 Sc	1900 Clds. 10 Sc
Ppn. Liq. — in.		Prev. Dir. S	3 hr. Tend. +10	Wx	Wx 9	Wx 9
Ppn. Sol. — in.		Grnd. Cur. — in.	Observer CAW	Vis. 10	Vis. 6	Vis. 6

59

JUN 1 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	63 ° F	Dir. SE	Temp. 73	9 0030 - 0100		
Min.	54 ° F	Vel. 2 m.p.h.	Read. 29.23			
Set	59 ° F	Char. Variable	Corr. 29.10			
R. H.	62 %	24 hr. Mov. 46	Sea L. 30.35	0700	1300	1900
Ppn. Liq.	0.01 in.	Prev. Dir. N	3 hr. Tend. +15	Clds. 2Ac	Clds. 3Cs	Clds. 3Cs
Ppn. Sol.	- in.	Grnd. Cur. -	Observer CAW	Wx	Wx	Wx
				Vis. 20+	Vis. 20+	Vis. 20+

59

JUN 19 1952

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	75° F	Dir. Calm	Temp. 76			
Min.	49° F	Vel. Calm m.p.h.	Read. 29.13			
Set	58° F	Char. Calm	Corr. 28.99			
R. H.	68 %	24 hr. Mov. 49	Sea L. 30.25	0700 Clds. 3 Cs	1300 Clds. 3 Cs	1900 Clds. 3 Cs
Ppn. Liq.	— in.	Prev. Dir. S	3 hr. Tend. +00	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cur. — in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+

55

JUN 20 1954

0700 EST

Meteorological Observatory  
State College, Pa.  
General Obs.

Temp.		Wind	Barom.	General Obs.		
Max.	83 ° F	Dir. Calm	Temp. 76			
Min.	55 ° F	Vel. Calm m.p.h.	Read. 29.03			
Set	64 ° F	Char. Calm	Corr. 28.89	0700	1300	1900
R. H.	70 %	24 hr. Mov. 37	Sea L. 30.14	Clds. 4 Cs	Clds. 4 Cs	Clds. 6 Cs
Ppn. Liq.	- in.	Prev. Dir. S	3 hr. Tend. +05	Wx	Wx	Wx
Ppn. Sol.	- in.	Grnd. Cur. - in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+

60

JUN 21 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	87 ° F	Dir. SW	Temp. 80			
Min.	62 ° F	Vel. 2 m.p.h.	Read. 28.93			
Set	72 ° F	Char. Steady	Corr. 28.78			
R. H.	72 %	24 hr. Moy.	Sea L.	0700	1300	1900
Ppn. Liq.	— in.	Prev. Dir.	3 hr. Tend.	Clds.	Clds.	Clds.
Ppn. Sol.	— in.	Grnd. Cvr.	Observer	Wx	Wx	Wx
			Observer	Vis.	Vis.	Vis.

69

0700 Clds. 4c:Cs  
1300 Clds. 4c:Cs  
1900 Clds. 4c:Cs  
Wx  
Vis. 20+

JUN 22 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 92 ° F		Dir. SW	Temp. 81	Rg 1830 - 2400		
Min. 68 ° F		Vel. 3 m.p.h.	Read. 28.83			
Set 75 ° F		Char. Steady	Corr. 28.68			
				0700	1300	1900
R. H. 78 %		24 hr. Mov. 105	Sea L. 29.90	Clds. Clear	Clds. 4CuCg	Clds. G 8CbCu
Ppn. Liq. — in.		Prev. Dir. SW	3 hr. Tend. — 00	Wx	Wx	Wx
Ppn. Sol. — in.		Grnd. Cvr. — in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+

73

JUN 23 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max. 90 ° F	Dir. SW	Temp. 79	̈́ 0000-0100 , 1130-1200 R̈́ 1200-1300 ̈́ 1300-1400			
Min. 65 ° F	Vel. 2 m.p.h.	Read. 28.78				
Set 69 ° F	Char. Steady	Corr. 28.64				
R. H. 90 %	24 hr. Mov. 149	Sea L. 29.87	0700 Clds. 2CcCu	1300 Clds. C <sub>g</sub> 10CbCu	1900 Clds. C <sub>b</sub> 6CuC <sub>g</sub>	
Ppn. Liq. 0.65 in.	Prev. Dir. SW	3 hr. Tend. +05	Wx ≡	Wx R̈́	Wx	
Ppn. Sol. — in.	Grnd. Cvr. — in.	Observer CAW	Vis. 4	Vis. 4	Vis. 20+	

68

JUN 8 1957

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	77 ° F	Dir. Calm	Temp. 77			
Min.	56 ° F	Vel. Calm m.p.h.	Read. 28.99			
Set	63 ° F	Char. Calm	Corr. 28.85			
R. H.	72 %	24 hr. Mov. 126	Sea L. 30.09	0700 Clds. 1-Cu	1300 Clds. 4 Cu	1900 Clds. 3 Cu
Ppn. Liq.	0.06 in.	Prev. Dir. NW	3 hr. Tend. +20	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer CAW	Vis. 20+	Vis. 20+	Vis. 20+

61



JUN 25 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	81 ° F	Dir. SW	Temp. 80	skyhook balloon overhead at 2000		
Min.	62 58 ° F	Vel. 1 m.p.h.	Read. 28.96			
Set	66 ° F	Char. Steady	Corr. 28.81			
R. H.	78 %	24 hr. Mov. 59	Sea L. 30.05	0700 Clds. 10 Ac	1300 Clds. 4 Ac	1900 Clds. 7 Ci Cs
Ppn. Liq.	— in.	Prev. Dir. SW	3 hr. Tend. +35	Wx ∞	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer CAW	Vis. 8	Vis. 15	Vis. 15

64

JUN 26 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	85 ° F	Dir. SW	Temp. 84	0750 - 0805 13		
Min.	65 ° F	Vel. 8 m.p.h.	Read. 28.76			
Set	72 ° F	Char. Steady	Corr. 28.60			
R. H.	65 %	24 hr. Mov. 072	Sea L. 29.82	0700 Clds. 8AcAs ICb	1300 Clds. 4Cu 3Ci	1900 Clds. 4ci 2Cu
Ppn. Liq.	— in.	Prev. Dir. SW	3 hr. Tend. 108V	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer CEL	Vis. 18	Vis. 15	Vis. 15

JUN 27 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	88 ° F	Dir. NW	Temp. 79			
Min.	66 ° F	Vel. 15 m.p.h.	Read. 28.69			
Set	69 ° F	Char. Gusty	Corr. 28.55			
R. H.	65 %	24 hr. Mov. 150 <sup>(EST.)</sup>	Sea L. 29.77	0700 Clds. 1Cu	1300 Clds. clear	1900 Clds. 8Sc
Ppn. Liq.	0.03 in.	Prev. Dir. W	3 hr. Tend. +19	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer EJH	Vis. 25	Vis. 25	Vis. 25

JUN 28 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	77 °F	Dir. WNW	Temp. 83			
Min.	56 °F	Vel. 12 m.p.h.	Read. 28.78			
Set	57 °F	Char. Gusty	Corr. 28.63			
R. H.	75 %	24 hr. Mov. 313	Sea L. 29.87	0700 Clds. 10Sc	1300 Clds. 7Sc	1900 Clds. 5Sc
Ppn. Liq.	— in.	Prev. Dir. NW	3 hr. Tend. +15J	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer GCH	Vis. 25	Vis. 25	Vis. 25

JUN 29 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	72 ° F	Dir. NW	Temp. 79			
Min.	57 ° F	Vel. 3 m.p.h.	Read. 28.87			
Set	65 ° F	Char. steady	Corr. 28.73			
R. H.	65 %	24 hr. Mov. 145	Sea L. 29.96	0700 Clds. 1 Ci	1300 Clds. 3 Cu	1900 Clds. 2 Ac
Ppn. Liq.	— in.	Prev. Dir. NW	3 hr. Tend. +0.9	Wx	Wx	Wx
Ppn. Sol.	— in.	Grnd. Cvr. — in.	Observer E.H.	Vis. 20	Vis. 20	Vis. 20

JUN 30 1954

0700 EST

Meteorological Observatory  
State College, Pa.

Temp.		Wind	Barom.	General Obs.		
Max.	Dir.	Temp.	° 1700-1930			
80 ° F	W	78				
Min.	Vel.	Read.				
58 ° F	1 m.p.h.	28.93				
Set	Char.	Corr.	0700	1300	1900	
62 ° F	Variable	28.79	Clds.	Clds.	Clds.	
R. H.	24 hr. Mov.	Sea L.	5 Ac	2 C <sub>w</sub> 2 A <sub>c</sub>	10 A <sub>2</sub> A <sub>c</sub>	
82 %	093	30.03	Wx	Wx	Wx	
Ppn. Liq.	Prev. Dir.	3 hr. Tend.				
— in.	N	+14				
Ppn. Sol.	Grnd. Cvr.	Observer	Vis.	Vis.	Vis.	
— in.	— in.	EA	20	20	15	