

MONTHLY WEATHER DATA AND OBS - WESTMONT 1W PA

JULY 2011

OBSERVER NATE MULLINS

Special Observations: F=fog, S=sleet, G=glaze, T=thunder, H=hail, DW=damaging winds
 Observation time for this station is midnight EDT.

Date	Temperature, °F			Precipitation, In.			Special Obs.
	24-hour Max	Min	At Obs	Liquid Rain Equiv	Solid Snow/ Ice	7am Snow Depth	
1	91	51	63				F
2	88	50	72				
3	90	64	69	0.01			T
4	82	62	66				
5	91	62	66				
6	95	56	68				
7	89	62	67				
8	69	64	65	0.57			F,T
9	89	60	66				F
10	93	56	70				
11	91	67	68	0.07			T
12	89	62	74				
13	85	64	64				
14	86	55	63				
15	86	58	63				
16	90	57	68				
17	92	61	72				
18	93	64	70	0.46			F,T
19	92	69	73	0.01			F
20	97	68	73				
21	95	67	80				F
22	100	69	69	0.06			T
23	95	67	77				
24	91	72	74				
25	82	66	67	0.82			F,T
26	86	62	67	0.18			
27	89	58	66				
28	86	61	68	0.68			F,T
29	92	68	70	0.24			F,T
30	90	66	70				F,T
31	93	56	71				

AVG/SUM	89.6	62.1	69.0	3.10	-	-	
EXT	100	50	80/63	0.82	-	-	
Date	22	2	21/15*	25	-	-	

* = Also occurred on earlier dates

Miscellaneous Stats

Mean Monthly Temperature: 75.8 °F (+5.1 °F)

Year precipitation to date: 33.62" (+4.43"); Monthly Precipitation Departure: -2.01"

Season snowfall to date: 0.0"

Number of days with: Fog 10, Sleet 0, Glaze 0, Thunder 9, Hail 0, Damaging Wind 0

DETAILED OBSERVATION NOTES

- 1: Cool with light fog early then sunny and surprisingly hot high 91 F but with very low humidity 21% min RH and light breezes so it didn't feel that hot.
- 2: Another crisp clear night and again sunny, very warm and more humid with very little winds and skies becoming partly to mostly cloudy by late afternoon.
- 3: Line of thunderstorms shortly after midnight evaporated as it approached - yet again. Only .01" rain and distant thunder. Partly cloudy, hot & humid high 90 heat index 97, little wind.
- 4: Variably cloudy, warm & humid, little wind, no rain.
- 5: Sunny, hot & humid, little wind again.
- 6: Sunny, very hot high 95 F, light variable winds. Lawns are beginning to look very parched from the scorching heat, sun & lack of rain.
- 7: Sunny early, then variably cloudy, hot & humid with big storms & heavy rain all around us in every direction but nothing here once again. What's new?
SOME RAIN!
- 8: Cloudy overnight, hazy, remained cool with a thunderstorm at 11:30am followed by light rain and drizzle through ~ 3pm .57" of very badly needed rain fell. High of only 69 F. Some fog formed this evening.
EXTREMELY HOT & DRY STREAK
- 9: Foggy overnight but clearing overhead, sunny AM, partly cloudy PM, light winds, very warm but less humid.
- 10: A fair cooler night and a mostly sunny very hot day high 93 F, light SW winds.
- 11: Another very hot humid day with fair skies early and increasing PM clouds, the high hit 91 with a heat index of 100. Severe thunderstorm warnings in effect this evening some strong winds 40+ mph but storms weakened only .07" of rain.
- 12: Another hot humid and very hazy day with variable clouds, heat index hit 96.
- 13: Very hazy & humid this morning, then gradually decreasing clouds, a noticeable drop in humidity and some pleasant NW breezes this afternoon & evening.
- 14: Clear and cooler overnight, sunny AM, partly cloudy PM, warm but low humidity.
- 15: Partly cloudy AM, mostly sunny PM, light breezes, warm but again low humidity.
- 16: Sunny AM, partly cloudy AM, light SE winds, hot but again not too humid.
- 17: Partly to mostly sunny, continued very hot, high 92, heat index 98.
- 18: Fair early, then gradually increasing clouds, very hot, very humid high 93F heat index 103F. A welcome thunderstorm dropped .46" rain from 4:40-5:15pm.
- 19: Mild & muggy with fog/haze and a brief light shower overnight. Low only 69 F. Partly to mostly sunny, very hot/humid again high 92 heat index 106!
- 20: Extremely hot and humid after a mild night, mostly sunny, light SW winds, a high of 97 F and heat index of 109!
- 21: More extreme heat & humidity, very hazy, mostly sunny, light SW winds, a high of 95 F with a staggering heat index of 113 F, remained very warm and very humid all evening, still 80 F @ midnight with a heat index of 87 F!
- 22: Unusually warm muggy night low only reached 77 with heat indices remaining in the 80s all night and dewpoints in the 70s. Partly to mostly sunny, EXTREMELY hot & humid, high 100 for the 1st time since 1988, heat index an insane 119!
A weak t-shower late this evening erased our record high min 77 down to 69.
- 23: Partly to mostly sunny, light SW winds, again very hot and humid high 95 heat index 108.
- 24: Partly to mostly sunny, light SW winds, hot/humid high 91 heat index 102.
FINALLY SOME RAIN
- 25: Becoming cloudy, a thunderstorm from 10am-noon dropped .79" of rain, about a

half-inch in the first 20 minutes, then variable clouds, brief PM t-shower, fair calm evening, slightly cooler, a much needed .82" of rain fell today.

26: Mostly sunny AM, partly cloudy PM, light SW breezes, a brief isolated shower ~4:15pm dropped a quick .18" of rain, otherwise continued partly cloudy.

27: A cooler night then a very warm but dry day with low humidity and fair skies.

STRONG STORMS

28: Increasing clouds overnight, brief AM shower, then variable clouds, very warm and humid. An endless parade of thunderstorms passed through this evening, with thunder every hour from 4pm-midnight. The worst of the storms were about 5 miles SW of this station, where radar showed a hook echo and rotation about 7:30pm. This storm brought wicked close frequent lightning and brief heavy rains, but no severe wind or hail. Wind damage reported just S in Tire Hill.

VERY HOT AGAIN

29: Warming overnight w/ brief shower, very hot and humid high 92 heat index 106. Brief gusty thunderstorm around 5pm, .23" rain fell. Remained mostly cloudy and very humid with widespread haze and fog this evening.

30: Distant thunder to the south overnight, clearing by daybreak, sunny and hot, high 90, not too humid, winds were light from the north.

31: Sunny, very hot high 93 F and a heat index of 100 to sum up an insanely hot month. Winds were very light NNW to W.

MONTHLY SUMMARY

HOT would sum up July 2011. 18 days hit 90 or higher. This has almost never, ever happened at this location. Nights tended to be on the mild side, but the days averaged nearly 10 degrees hotter than average, about +3 standard deviations. The heat was relentless from start to finish, with the worst of the heat from the 16th to the 24th. Every day in this stretch was at least 90, and a very rare 100 (for this location) was recorded on the 22nd, along with an overnight low of 77. The heat index reached a staggering 119, due to oppressive humidity. There were many days with heat indices near or over 100. July's temperatures defied logic, and the month may well beat out many other recent hot July's (including 2010) to become the hottest month in recent history.

July was also very dry, with record dryness in parts of northern PA and also just east of the Allegheny Front where almost everything evaporated. A couple of strong thunderstorms during the final week dropped about 2 inches of rain, but rainfall was still barely 60% of average, and June-July precip was 4.55" below normal. It seemed that countless clusters of thunderstorms evaporated when they crossed Laurel Ridge just to our west. Virtually all of Westmoreland Co. had 5 to 8 inches of rainfall, while Cambria Co. only averaged around 3", with 3.10" here. The storms seemed to repeatedly dump on the same locations and miss other locations. Here, we were right on the edge. While there was no severe weather, a rotating supercell produced wind damage just south & west of the area on the 28th.