

MONTHLY WEATHER DATA AND OBS - WESTMONT 1.1W PA

AUGUST 2010

OBSERVER NATE MULLINS

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

Date	Temperature, °F			Precipitation, In.			Special Obs.
	24-hour Max	Min	At Obs	Liquid Rain Equiv	Solid Snow/ Ice	7am Snow Depth	
1	80	64	64	0.08			
2	80	60	67				
3	77	64	70	0.07			
4	86	67	67	0.58			F,T
5	84	65	72	0.01			
6	79	60	60	0.22			T
7	81	55	63				
8	86	53	65				
9	90	57	71				
10	89	65	73				
11	91	65	72				
12	82	67	69	1.87			F,T
13	69	65	66	T			
14	74	64	68				
15	85	68	71	0.03			
16	86	66	66				
17	85	57	66				
18	76	58	62				
19	86	57	68				F
20	88	59	69				
21	86	62	68	0.48			
22	76	67	67	0.87			F
23	70	61	61	0.17			
24	66	59	62	0.01			
25	77	59	64				F
26	77	57	57				
27	79	47	57				F
28	84	47	64				
29	90	54	67				
30	87	57	67				F
31	91	59	68				F

AVG/SUM	81.8	60.2	66.2	4.39	0.0	-	
EXT	91	47	73/57	1.87	-	-	
Date	31*	28*	10/27*	12	-	-	

* = Also occurred on earlier dates

Miscellaneous Stats

Mean Monthly Temperature: 71.0 °F (+2.0°F)

Year precipitation to date: 39.64" (+6.35"); Monthly Precipitation Departure +0.29" (August Normal 4.10")

Season snowfall to date: 0.0"

Number of days with: Fog 8, Sleet 0, Glaze 0, Thunder 3, Hail 0, Damaging Wind 0

DETAILED OBSERVATION NOTES

1: Occasional brief showers overnight and early AM. Became partly cloudy with occasional gusty SW winds.

2: Variably cloudy skies, breezy conditions from SW shifting to SE, calm after sunset. High 80 again.

3: Mostly cloudy and not as warm, high 77 F - this is the first day in the last 32 that failed to reach 80!

The 31 days from Jul 3 - Aug 2 of 80+ degree temps is a record for this location. Still felt warm due to high humidities. A few sprinkles, then a brief hard shower just before midnight .07" rain fell.

VERY WARM - HUMID - THUNDERSTORM

4: Very warm and extremely humid. High 86 with a heat index of 97. Mostly cloudy, becoming partly cloudy during the afternoon, then a brief intense thunderstorm 6-6:30pm with heavy downpours and lots of close lightning, some brief wind gusts but nothing severe here though some localized damaging wind gusts were reported just NE & E of town. Rain ended by 8pm .58" fell. Patchy fog formed later this evening.

5: Variable clouds overnight with a light shower around 4am from a dissipating line of showers & storms.

Partly cloudy, warm and humid, light W winds, surprisingly no rain or storms threatened as forecast.

6: Warm & humid overnight, a brief downpour w/ thunder at 2am, mostly cloudy AM, partly cloudy PM, light NW winds, slightly cooler and less humid. Temperatures cooling to 60 by midnight.

LOWER HUMIDITY - COOLER NIGHTS - THEN BECOMING HOT AGAIN

7: Pleasant low 55 F with fair skies, partly cloudy during the day with pleasant temps and humidity, light NW winds.

8: Clear & cool overnight low 53 F, then sunny & warm but with low humidity, light variable winds, nice day

9: Clear with pleasant overnight temps, then sunny and hot high 90 F. Light W winds. Few late PM clouds, partly cloudy, calm & mild evening.

10: Fair overnight, partly cloudy, hot & humid high 89 F heat index 99 F, very sultry day, light NW winds

11: Fair overnight, then mostly sunny & hot high 91 F heat index 97 w/ very light NNW winds, a few evening high clouds & remaining mild. 8th 90+ degree day of 2010, unusual for this location.

STRONG STORM - HEAVY RAINS

12: Jolting thunderstorm overnight 2-4 am with heavy downpours and intense frequent lightning. 1.05" rain fell in 20 minutes from 2:35 to 2:55 am, and 1.81" fell in the two-hour period. Became foggy early AM with calm winds. Variable clouds, warm and humid with a brief shower about 2:30pm. Light NNW winds.

AWAY AT PLP

13: Becoming overcast overnight and all day long with temperatures remaining in the 60s and a very light mist at times but the rainfall was not measurable. 69 F an unusually cool high given the recent heat.

14: Mostly cloudy and continued cooler than normal with a high of 74.

15: Remaining warm overnight with temps slowly rising, some light AM rain showers then clearing, warm & very humid PM, partly cloudy, forecast storms never materialized.

16: Mostly sunny and very warm, less humid

17: Cooler overnight low 57 F with clear skies. Mostly sunny, calm, increase in clouds by sunset.

18: Mostly cloudy and cooler high 76 F, calm winds.

19: Dense AM fog with a pleasant low of 57 F then mostly sunny and warm.

Back from PLP

20: Mostly sunny and hot high 88 F heat index 94. Light W winds.

SOAKING RAINS - COOLER

21: Fair overnight, mostly sunny AM, becoming mostly cloudy PM, very warm & humid. Light W winds switched to SW and picked up briefly. Rain began ~ 10 pm and became moderate to heavy .48" by midnight.

22: Rain continued overnight heavy at times most of it ending by 4:30 am. Intermittent showers continued until about mid-afternoon then variably cloudy, humid, light W winds. Today's .87" of rain brings the month's total to 4.21", making August the 4th consecutive above-normal precip month here in Westmont (normal for August is 4.10"). Storm total rainfall 1.35".

23: Cloudy and cool with a high barely reaching 70 and temperatures in the mid 60s most of the day. A few showers during the mid-late afternoon .17" fell. Light NW winds shifting to N.

24: Some drizzle overnight. Cloudy and cool all day with just one brief peak of sun.

25: Clearing in the early morning hours with fog around daybreak. Variable clouds throughout the day.

FAIR WEATHER - COOL - THEN HOT

26: Partly cloudy early, becoming mostly sunny and pleasant with lower humidity and light NW breezes.

Temperatures dropped off quickly this evening with fair skies.

27: Cool overnight low 47 F with some light fog this morning but clear skies overhead. Sunny & beautiful with light NW breezes and crisp clear skies, pleasant temperatures and low humidities.

28: Cool overnight again low 47 F. Clear and sunny all day and warm high 84 F but again low humidity.

29: A pleasant overnight low of 54 then sunny & hot high 90 F heat index 96. Light variable winds.

30: Sunny and very warm high 87 F. Very light north winds.

31: Another sunny dry day. Still very hot high 91 F heat index 96 F quite a fitting end to this unusually hot summer. Almost no wind, very light from NW.

MONTHLY SUMMARY

The streak of very warm temperatures continued into August, the 6th consecutive month with above-normal temperatures - this, after a record snowy and very cold winter. The summer of 2010 was one of the hottest on record, rivaling the summers of 1988, 1991, 1995 and a few others in the past 30 years. While August was not as oppressive as July, and there were more breaks in the heat, the overall weather pattern was quite warm and at times very humid. 4 days reached 90 or higher, 10 so far this year. This is very unusual for highs to reach 90 in the first place...but 10 of them?!? Wow. Sizzling highs of 91 were recorded on the 11th and 31st, both during substantial heat waves. The 2nd week was the hottest, while the 4th week was the coolest, with some hints of fall, before a warm, dry finish to August and Summer 2010.

While thunderstorms were few and far between in August, we were blessed with some a few heavy rain events that many nearby areas missed. The first week was warm, humid and unsettled. A squall line on the evening of the 4th produced some locally damaging winds in parts of town. In addition to the continued heat, a highlight of August was the intense, slow-moving thunderstorm that rocked the area early on the 12th. This storm produced nearly continuous lightning and dumped 1.81" of rain in 2 hours (1.87" total). After a fairly long dry stretch, another front finally passed through on the 22nd. Over an inch fell in a 6-hour period overnight the 21st-22nd. A strong high pressure system brought very dry, sunny conditions during the final week. Still, the summer of 2010 had slightly above normal precipitation all 3 months.