



Pine Home Station Monsoon 2008 Chart 1

Day	Rain	Hi Rate	Duration	Temp	Dew Point	Hi Wind Speed/Dir (mph/quad)		
	Inches	In./Hr.	Hours	° F	° F	Before	During	After
6/30	0.06	0.82	< 0.5	87	48	9/sw	9/n	5/nw
7/1	0.15	1.65	< 1.0	91	43	21/n	21/ne	7/se
7/2	0							
7/3	1.14	13.09	~ 1	86	51	9/n	17/e	4/n
7/4	0.12	3.11	< 0.5	85	52	18/e	19/ne	14/nw
7/5	0							
7/6	0.03	0.14	< 0.5	85	54	7/ne	7/n	14/n
7/7	0.26	2.22	< 0.5	83	53	14/n	18/ne	4/n
Total	1.76							



From the weather events in the area of Pine-Strawberry, it appears the "monsoon season" of 2008 began early, on 6/30. Note the large storm of 7/3, dropping 1.14" between 7 & 9 pm (actually about 1-hour duration). The very high rainfall rate for this storm (13") occurred for about one minute during the first 15 minutes. Also note that all of the storms occur after a significant drop in barometric pressure which is characteristic of thunderstorm activity. A data profile of each storm is shown in table above: total rain (inches), highest rate (inches/hour), approximate duration of storm (hours), temperature just before the rain (degrees F.), dewpoint just before the rain (degrees F.), high wind speed & direction just before, during & just after the rain. Most of our summer storms are of short duration (< 0.5 hr.), wind is very local (drafts from the storm clouds), & storm direction for this period was from the north, northeast quadrants.

Prepared by Wes Suhr with data from my Pine Home Weather Station, a Davis Vantage PRO2 Plus (image above).