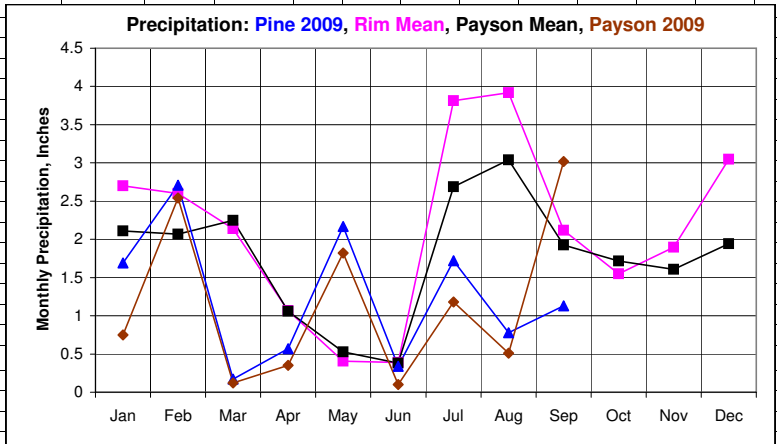


September & Annual Summary for 2009, Revised NOAA Report for Pine Home Station

DAY	MEAN	HIGH	TIME	LOW	TIME	HIGH	WIND	TIME	DOM
	TEMP					RAIN			mph
1	73	89.5	2:45p	57.8	6:15a	0.12	15	5:45p	SSW
2	73.6	89.8	12:30p	59.8	4:45a	0.04	16	2:45p	NE
3	72.7	87.3	3:30p	64.9	5:15a	0	12	4:15p	NE
4	66.3	83.3	11:00a	55.9	5:30a	0.13	10	11:30a	NE
5	62.7	74.3	12:45p	57.6	12:00m	0.27	14	2:15p	N
6	67.3	82.6	3:00p	52.7	6:45a	0.01	10	1:30p	SW
7	67.4	82.5	3:15p	55.2	6:15a	0	13	1:30p	SW
8	66.9	83.7	4:00p	55.1	6:30a	0.17	11	4:00p	ENE
9	65.7	80.7	2:15p	57.5	2:45a	0.12	17	12:15p	NE
10	66.7	84.1	2:15p	55.6	5:00a	0.11	13	2:15p	E
11	68.5	81.6	2:30p	56.4	5:30a	0	11	12:15a	NE
12	67.5	83.1	2:00p	52.9	6:45a	0	12	10:45a	SSW
13	66.9	81.4	3:15p	55	5:30a	0	13	3:30p	SSW
14	67.3	81.8	2:00p	56.2	12:00m	0	17	2:45p	SSW
15	63.4	80.1	2:45p	49.6	6:15a	0	17	12:30p	SSW
16	65.3	80.1	12:30p	49.9	6:30a	0	12	8:00p	N
17	64	79.7	12:00p	53.4	5:00a	0.01	11	8:30a	E
18	61.3	75.3	11:45a	47.9	6:30a	0	10	10:15a	SSW
19	61.4	79.7	12:15p	51.3	12:00m	0.11	13	6:15p	ENE
20	65.1	83.4	3:00p	51	12:15a	0	11	4:45p	ENE
21	70.6	86.5	2:45p	54.2	4:30a	0	15	1:30p	N
22	63.9	76.4	2:30p	55.3	9:45p	0	26	10:15a	NE
23	62.1	75	2:45p	50.6	7:30a	0	18	12:15a	NE
24	66.1	79.3	3:15p	49.7	7:45a	0	17	10:30a	NE
25	65.4	84.2	2:45p	49.2	6:30a	0	12	12:00p	ENE
26	69.9	89	1:45p	52.4	4:15a	0	11	4:00p	E
27	69.5	89	3:00p	53	6:45a	0	11	12:00p	ENE
28	68.6	87.6	1:45p	52.8	6:45a	0	13	1:45p	SSW
29	66.6	84.1	2:30p	52.7	6:30a	0	17	2:15p	SSW
30	62.4	76.7	2:00p	49.1	9:00p	0.04	18	12:00p	SW
Summary	66.6	89.8		47.9		1.13	26		SSW

Rim Monthly Precipitation, inches		Compare		
Pine Sta ▲	Rim Mean ■	Payson Mean ■	Payson Sta ◆	
Actual 09	3 Stations	NWS 1952-2007	Actual 09	
Jan	1.69	2.7	2.11	0.75
Feb	2.71	2.6	2.07	2.54
Mar	0.17	2.14	2.25	0.12
Apr	0.57	1.07	1.06	0.35
May	2.17	0.41	0.53	1.82
Jun	0.34	0.39	0.38	0.1
Jul	1.72	3.81	2.69	1.18
Aug	0.78	3.92	3.04	0.51
Sep	1.13	2.12	1.92	3.02
Oct		1.55	1.72	
Nov		1.90	1.61	
Dec		3.05	1.94	
Total	11.28	25.64	21.31	10.39

AZMET=1.65"
provisional data



For September, Pine Home Station was about 1" below average rainfall, & for the monsoon season (July + August + September) Pine had a total of 3.63", the lowest monsoon rainfall on record for the "Rim Area". Statistically, this lowest monsoon value falls "off the charts" for estimating its frequency or average return period, as the chart below indicates (the correlation coefficient is quite high, R = 0.98). I estimate this monsoon season was a 1- in -100 year low for the Rim station data that's available.

Another note about the September 2009 data above is the NWS total of 3.02" for Payson. I presume much of this total moisture was received in one hail storm which hit Payson around the 19th of September. I would judge this record to be inaccurate because of estimating the moisture in hail at one point on Main Street (NWS Station), just a city block or two from the AZMET gage in Green Valley Park which measured a total of 1.65" for September (AZMET or AZ Meteorological Network station maintained by the University of AZ).

Prepared by Wes Suhr, SamReportApr-Sep 2009.xls

