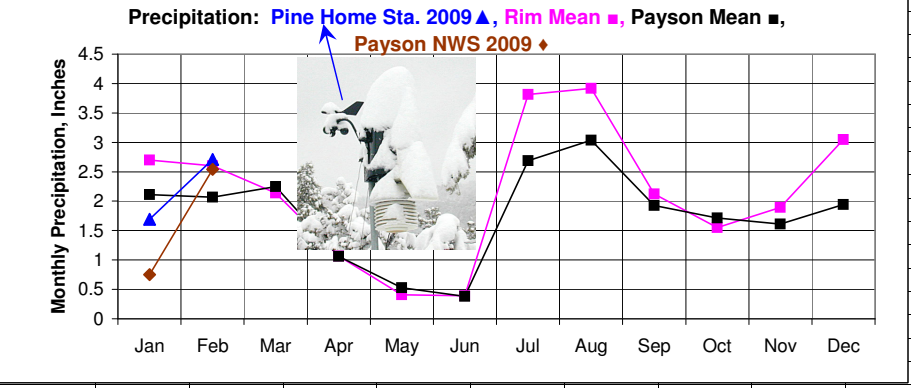


February & Annual Summary for 2009, Revised NOAA Report for Pine Home Station

DAY	MEAN TEMP	HIGH TEMP	TIME	LOW TEMP	TIME	Pressure		RAIN Inches	High		DOM DIR	
						Inches Hg	Inches Hg		Rain Rate	High Wind		
						Low	High		In/Hr	mph		
1	41.6	57	12:30p	29	6:30a	30.103	30.292	0		19	10:30p	NE
2	42.4	58.7	2:45p	27.8	3:00a	30.295	30.383	0		9	11:15a	NE
3	48.8	65	3:00p	31.6	4:45a	30.17	30.344	0		11	10:00a	E
4	50.4	63.7	2:45p	36.8	11:15p	30.106	30.206	0		14	8:15a	E
5	47.8	62.6	2:00p	35.2	6:15a	29.987	30.216	0		18	2:00p	SSW
6	42.3	55.2	2:45p	31.2	7:15a	29.93	30.02	0		16	5:00p	SSW
7	43	54.1	2:45p	34	1:45a	29.824	29.984	0		19	11:45a	SSW
8	33	40.9	12:15a	31.3	11:45p	29.766	30.044	0.29	0.05	11	1:30a	SSW
9	32	33.6	11:45a	27.7	12:00m	29.742	30.043	0.06		16	11:15a	SSW
10	29.1	36.6	2:00p	25.1	7:00a	29.761	30.282	0.25	0.08	11	12:30p	W
11	28.1	38	3:45p	16.7	8:00a	30.202	30.351	0.89	0.61	9	4:15p	SSW
12	31.4	41.4	12:30p	22.4	12:00m	30.073	30.207	0.57	0.24	21	1:00p	SSW
13	27.6	42.2	2:45p	14.6	7:45a	30.113	30.236	0.02		10	11:30a	SSW
14	29.9	40.5	2:00p	20.8	12:45a	30.078	30.26	0.01		11	11:15a	SW
15	35.2	47.2	2:15p	22	7:45a	30.105	30.275	0		12	11:15a	SSW
16	39.9	48.1	12:00p	28.9	6:45a	29.93	30.105	0		16	11:45p	SSW
17	35.6	44.1	2:45p	27.4	11:30p	29.93	30.15	0.61	0.32	13	12:30a	SSW
18	34.9	48.4	3:00p	22.3	8:00a	30.154	30.345	0.01		11	9:00p	SSW
19	42.8	54.3	3:00p	30.8	12:15a	30.24	30.349	0		18	3:00a	NE
20	40.5	61.8	2:45p	26.8	7:00a	30.076	30.242	0		10	3:45p	ENE
21	43.1	61.6	2:30p	30.1	7:45a	30.158	30.264	0		10	1:00p	E
22	46	62.4	2:00p	35.5	12:45a	30.219	30.303	0		14	12:45p	ENE
23	50.5	67	2:45p	39.6	7:00a	30.133	30.285	0		10	3:30p	ENE
24	49	65.1	2:45p	37.3	7:30a	30.047	30.145	0		9	10:15a	ENE
25	48	64	2:45p	35.3	4:45a	29.997	30.091	0		15	11:30a	ENE
26	44.7	59.8	3:00p	33.7	11:45p	29.966	30.042	0		11	1:30p	ENE
27	44.7	60.9	3:15p	30.9	7:00a	30.011	30.161	0		10	11:45a	SW
28	50.4	67.2	2:30p	35.2	3:00a	30.158	30.236	0		11	5:45a	NE
Summary	40.5	67.2	early pm	14.6	mostly am	29.742	30.383	2.71	0.61	21	12	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		2.14	2.25	
Apr		1.07	1.06	
May		0.41	0.53	
Jun		0.39	0.38	
Jul		3.81	2.69	
Aug		3.92	3.04	
Sep		2.12	1.92	
Oct		1.55	1.72	
Nov		1.90	1.61	
Dec		3.05	1.94	
Total	4.4	25.64	21.31	3.29



As you know, we had two snow storms in Feb., first one for 3 days (8th, 9th & 10th), second one on the 17th., delivering a total [gage measured moisture](#) of 2.71" for Feb. I'm emphasizing this so you will know that measuring the total snowfall (as water) in any storm at any standard gage, is **not accurate**. Certainly, this is true at my weather station which is imaged above with a pyramid of snow over it after the snowstorm of 8, 9 & 10. The better gages at reporting stations have snow shields around the gage which tend to reduce wind eddies, but this is still inaccurate. I was here for the first storm and measured about 3.5" of snow depth which translated to about 4.2" of water. Webber Creek USGS Station on east side of Milk Ranch Point recorded 4.24" for the Feb. 8-10 storm & 0.64" for the 17th storm, or 4.88" for Feb. My manual snow measurements came close to Webber Creek's record for the Feb. 8-10 storm. I plan to install another adjacent gage which will improve my measurement of snow depth and water in snow.

Note the "RAIN" column in the above table (NOAA Report): the first storm delivered all the snow on the 8th, 9th & 10th, with most of it melting into the gage on the 11th & 12 (storm over). Therefore, the "Rain Rate" column data really means nothing with snow (it's actually the rate of "snow melt" mostly after the storm). We can say the storms came in from the SSW with high winds & low pressure. Note the temperature range with a low of 14.6 & high of 67.2 during the month.

Please note what I've done with the above graph which now has 4 plots: actual plots of Pine Home Station & Payson NWS (Main St.), & the long-term average plots for both. As you can see, Jan. was below normal & Feb. above normal for both stations. I'm hoping for a good storm in March.