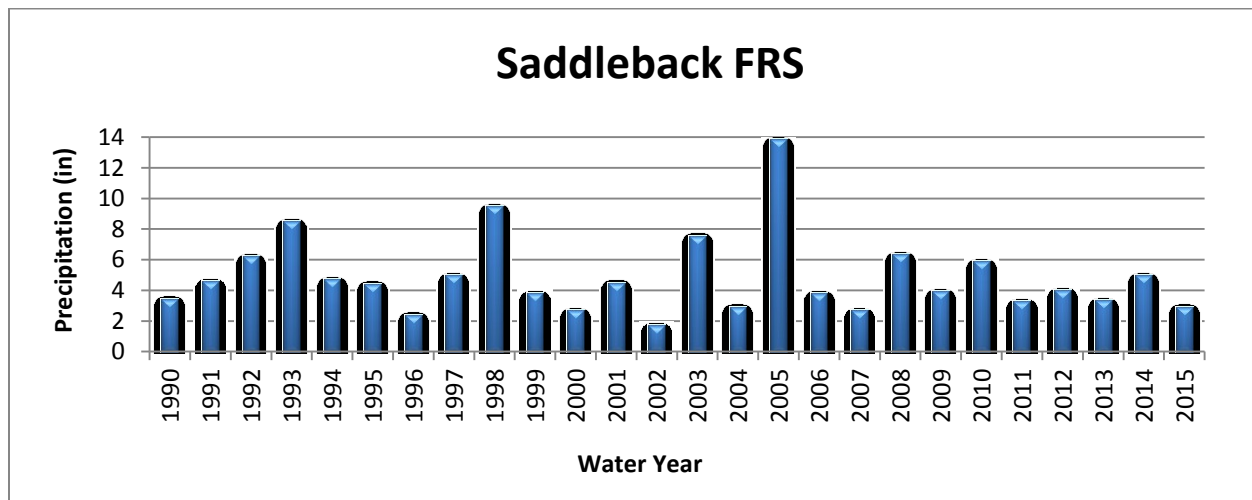




## Station Name: Saddleback FRS

<b>Station ID Number History:</b>	<b>5110</b> since 09/07/92 <b>0660</b> from 12/16/88 - 09/07/92
<b>Station Type:</b>	Rain / Stage
<b>Data Begins:</b>	12/16/1988
<b>Years Since Installation:</b>	26.79 (as of 10/01/15)
<b>Data Repeater:</b>	Burnt Mountain
<b>County:</b>	Maricopa
<b>Latitude:</b>	33° 27' 59.8" (33.46660)
<b>Longitude:</b>	113° 04' 21.3" (113.07258)
<b>Elevation:</b>	1,180 ft. msl
<b>Location:</b>	7 miles WSW of Tonopah
<b>Data Record:</b>	
Incomplete Months:	None
Missing Months:	None
<b>Remarks:</b>	Records Good



**Data Statistics for Period of Record:**

Number of storms greater than 1 inch in 24 hours:	22	
Number of storms greater than 2 inches in 24 hours:	3	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. $T_r$
Greatest 15 minute total:	0.79" on 08/11/06	7 years
Greatest 1 hour total:	1.50" on 08/11/06	11 years
Greatest 3 hour total:	1.89" on 08/09/05	14 years
Greatest 6 hour total:	2.13" on 08/09/05	14 years
Greatest 24 hour total:	2.20" on 11/22/13	8 years
Greatest 72 hour total:	2.84" on 01/21/10	15 years

**Water Year Totals: (Mean of Complete Water Years [26] = 4.88 inches)**

Water Year	Total	Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	5.87	2000	2.68	1990	3.62
2019		2009	3.94	1999	3.82	1989	M
2018		2008	6.34	1998	9.49	1988	
2017		2007	2.68	1997	4.96	1987	
2016		2006	3.82	1996	2.40	1986	
2015	2.91	2005	13.86	1995	4.41	1985	
2014	4.96	2004	2.91	1994	4.69	1984	
2013	3.35	2003	7.56	1993	8.50	1983	
2012	3.98	2002	1.73	1992	6.22	1982	
2011	3.27	2001	4.49	1991	4.53	1981	

M: One or more months contain partial or missing data

**Design Rainfall for this Geographic Location:**

**Click this [link](#) for Point Precipitation Frequency Estimates (Annual Maximum Series) in Tabular and Graphical Formats from NOAA Atlas 14, Volume I, Version 5**



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2014

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1						.16					.08		
2													
3													
4		.04								.20			
5													
6													
7													
8												.75	
9										.04			
10	.04												
11											.04		
12													
13													
14										.08			
15													
16													
17													
18													
19											.20		
20			.20								.55		
21		.39									.04		
22		1.85									.04		
23		.12											
24		.04											
25													
26												.08	
27												.04	
28													
29					----								
30					----								
31		----			----		----		----			----	
SUM	0.04	2.44	0.20	0.00	0.00	0.16	0.00	0.00	0.00	0.31	0.94	0.87	
ACC	0.04	2.48	2.68	2.68	2.68	2.83	2.83	2.83	2.83	3.15	4.09	4.96	
MAX	0.04	1.85	0.20	0.00	0.00	0.16	0.00	0.00	0.00	0.20	0.55	0.75	
NO.	1	5	1	0	0	1	0	0	0	3	6	3	
												Maximum Daily Rainfall	1.85
												Maximum Monthly Rainfall	2.44
												Total Annual Rainfall	4.96
												Number of Days with Rain	20

**Flood Control District of Maricopa County ALERT System**  
 Daily [Rainfall](#) at Saddleback FRS (gage # 5110) for Water Year 2013

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5												
6												
7												
8						.35						
9					.04							.12
10												.16
11										.12		
12												
13			.12									
14			.16									
15			.04									
16												
17												
18												
19			.08									
20					.04					.04		
21										.04		
22												
23												
24											.28	
25				.04							.04	
26				.63							.63	
27				.31								
28											.04	
29					----						.08	
30					----							
31		----			----		----		----			----
SUM	0.00	0.00	0.39	0.98	0.08	0.35	0.00	0.00	0.00	0.20	1.06	0.28
ACC	0.00	0.00	0.39	1.38	1.46	1.81	1.81	1.81	1.81	2.01	3.07	3.35
MAX	0.00	0.00	0.16	0.63	0.04	0.35	0.00	0.00	0.00	0.12	0.63	0.16
NO.	0	0	4	3	2	1	0	0	0	3	5	2
							Maximum Daily Rainfall					0.63
							Maximum Monthly Rainfall					1.06
							Total Annual Rainfall					3.35
							Number of Days with Rain					20

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2012**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4		.16								.35		
5												
6												
7		.04										
8												
9												
10												.20
11												.04
12			.43									
13			.28							.04		
14			.04									
15												
16												
17						.08						
18		----	.24			.87						
19		----	.04									
20		----										
21											.71	
22										.12	.12	
23											.12	
24												
25												
26												
27												
28												
29										.12		
30					----							
31		----			----		----		----			----
SUM	0.00	0.20	1.02	0.00	0.00	0.94	0.00	0.00	0.00	0.63	0.95	0.24
ACC	0.00	0.20	1.22	1.22	1.22	2.17	2.17	2.17	2.17	2.80	3.74	3.98
MAX	0.00	0.16	0.43	0.00	0.00	0.87	0.00	0.00	0.00	0.35	0.71	0.20
NO.	0	2	5	0	0	2	0	0	0	4	3	2
							Maximum Daily Rainfall					0.87
							Maximum Monthly Rainfall					1.02
							Total Annual Rainfall					3.98
							Number of Days with Rain					18

Gage 5110 down from 11/17 15:06 (5) through 11/21 09:06 (5) due to repeater failure; no rain fell.

## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2011

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3										.08		
4	.51									.08		
5										.16		
6										.04		
7												
8							.08					
9							.16					
10												
11												.08
12												
13												.04
14												
15												
16												
17												
18												
19					.39							
20												
21												
22			1.06									
23												
24												
25												
26					.35						.04	
27												
28												
29			.16		----							
30			.04		----							
31		----			----		----		----			----
SUM	0.51	0.00	1.26	0.00	0.75	0.00	0.24	0.00	0.00	0.35	0.04	0.12
ACC	0.51	0.51	1.77	1.77	2.52	2.52	2.76	2.76	2.76	3.11	3.15	3.27
MAX	0.51	0.00	1.06	0.00	0.39	0.00	0.16	0.00	0.00	0.16	0.04	0.08
NO.	1	0	3	0	2	0	2	0	0	4	1	2
	Maximum Daily Rainfall											1.06
	Maximum Monthly Rainfall											1.26
	Total Annual Rainfall											3.27
	Number of Days with Rain											15

Annual Total (mm): 83

Days Down: 0





**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2			.04							.04		
3												.59
4												
5												
6												
7					.16							
8												
9					.08							
10							.04					
11							.24					
12												
13												
14												
15												
16			.24									
17			.39		.04							
18			.08									
19												
20												
21										.24	.12	
22											.51	
23				----								
24				----								
25												
26		.47										
27		.67										
28												
29					----							
30					----							
31		----			----		----		----			----
SUM	0.00	1.14	0.75	0.00	0.28	0.00	0.28	0.00	0.00	0.28	0.63	0.59
ACC	0.00	1.14	1.89	1.89	2.17	2.17	2.44	2.44	2.44	2.72	3.35	3.94
MAX	0.00	0.67	0.39	0.00	0.16	0.00	0.24	0.00	0.00	0.24	0.51	0.59
NO.	0	2	4	0	3	0	2	0	0	2	2	1
							Maximum Daily Rainfall					0.67
							Maximum Monthly Rainfall					1.14
							Total Annual Rainfall					3.94
							Number of Days with Rain					16

**Notes:**

Annual rainfall in millimeters: 100 Total down-time: 2.75 days  
 Gage 5110 down from 1/22 15:27 (48) through 1/25 09:27 (48) due to data collision; no rain fell.





**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2006**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												.31
3									----			
4									----			
5										.04		
6												
7												
8												.16
9												.31
10												
11						.08					1.57	
12											.04	
13												
14												
15												
16												
17	.98											
18	.28											
19												
20												
21												
22												
23												
24												
25												
26										.04		
27												
28												
29						----						
30						----						
31		----				----	----		----			----
SUM	1.26	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.08	1.61	0.79
ACC	1.26	1.26	1.26	1.26	1.26	1.34	1.34	1.34	1.34	1.42	3.03	3.82
MAX	0.98	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.04	1.57	0.31
NO.	2	0	0	0	0	1	0	0	0	2	2	3
							Maximum Daily Rainfall					1.57
							Maximum Monthly Rainfall					1.61
							Total Annual Rainfall					3.82
							Number of Days with Rain					10

**Notes:**

Annual rainfall in millimeters: 97 Total down-time: 2.50 days  
 Gage 5110 down from 6/02 21:54 (34) through 6/05 09:54 (34) due to battery failure; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2005**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											.08	
3				1.06							.67	
4			.04	.79		.04						
5			.43			.12						
6			.24									
7		.67										
8		.04										
9										2.17		
10					.08							
11					.63							
12		.04			.35							
13												
14											.59	
15												
16												
17					.04							
18					.12							
19					.43							
20					.04							
21	1.81	.08			.04							-----
22		.28			.04							-----
23					.08					.04		
24												
25												
26				.12								
27	.16			.04								
28	.91		.39									
29			1.22		-----							
30					-----							
31		-----			-----		-----		-----			-----
SUM	2.87	1.10	2.32	2.01	1.85	0.16	0.00	0.00	0.00	0.04	3.50	0.00
ACC	2.87	3.98	6.30	8.31	10.16	10.31	10.31	10.31	10.31	10.35	13.86	13.86
MAX	1.81	0.67	1.22	1.06	0.63	0.12	0.00	0.00	0.00	0.04	2.17	0.00
NO.	3	5	5	4	10	2	0	0	0	1	4	0
											Maximum Daily Rainfall	2.17
											Maximum Monthly Rainfall	3.50
											Total Annual Rainfall	13.86
											Number of Days with Rain	34

**Notes:**

Annual rainfall in millimeters: 352 Total down-time: 3.00 days  
 Gage 5110 down from 9/20 18:40 (352) through 9/23 18:40 (352) due to programming error; no rain fell.

Flood Control District of Maricopa County ALERT System  
Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2004

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2							1.02					
3						.16						
4									-----			
5									-----			
6									-----			
7												
8												
9												
10												
11			.12									
12		.20								.04		
13												
14										.39		
15											.12	
16												
17												
18												
19												.39
20												
21												
22				.04	.04							
23					.39							
24												
25												
26												
27												
28												
29												
30					-----							
31		-----			-----		-----		-----			-----
SUM	0.00	0.20	0.12	0.04	0.43	0.16	1.02	0.00	0.00	0.43	0.12	0.39
ACC	0.00	0.20	0.31	0.35	0.79	0.94	1.97	1.97	1.97	2.40	2.52	2.91
MAX	0.00	0.20	0.12	0.04	0.39	0.16	1.02	0.00	0.00	0.39	0.12	0.39
NO.	0	1	1	1	2	1	1	0	0	2	1	1
							Maximum Daily Rainfall					1.02
							Maximum Monthly Rainfall					1.02
							Total Annual Rainfall					2.91
							Number of Days with Rain					11

**Notes:**

Annual rainfall in millimeters: 74 Total down-time: 4.00 days  
Gage 5110 down from 6/03 08:53 (50) through 6/07 08:56 (50) due to antenna failure; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2003

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1											.04	
2												
3												
4												.31
5												.04
6												-----
7												-----
8				.20								
9												
10												
11												
12					.24							
13					.59							
14										1.10		
15										.28		
16						.47						
17	.12											
18												
19											.08	
20				.04								
21												
22												
23												
24										.31		
25					1.50							
26					.28							
27											.83	
28												
29		.39			-----					.75		
30					-----							
31		-----			-----		-----		-----			-----
SUM	0.12	0.39	0.00	0.24	2.60	0.47	0.00	0.00	0.00	1.06	2.32	0.35
ACC	0.12	0.51	0.51	0.75	3.35	3.82	3.82	3.82	3.82	4.88	7.20	7.56
MAX	0.12	0.39	0.00	0.20	1.50	0.47	0.00	0.00	0.00	0.75	1.10	0.31
NO.	1	1	0	2	4	1	0	0	0	2	5	2
							Maximum Daily Rainfall					1.50
							Maximum Monthly Rainfall					2.60
							Total Annual Rainfall					7.56
							Number of Days with Rain					18

**Notes:**

Total annual rainfall in millimeters: 192

Total down-time: 3.00 days

Gage 5110 down from 9/05 02:21 (192) through 9/08 02:21 (192) for unknown reason; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2002**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4		.08										
5												
6							.04					.87
7												.04
8												
9										.20		
10												
11			.12									
12												
13												
14										.28		
15										.08		
16												
17												
18												
19												
20												
21												
22												
23												
24												
25		.04										
26												
27												
28												
29					-----							
30					-----							
31		-----			-----		-----		-----			-----
SUM	0.00	0.12	0.12	0.00	0.00	0.00	0.04	0.00	0.00	0.55	0.00	0.91
ACC	0.00	0.12	0.24	0.24	0.24	0.24	0.28	0.28	0.28	0.83	0.83	1.73
MAX	0.00	0.08	0.12	0.00	0.00	0.00	0.04	0.00	0.00	0.28	0.00	0.87
NO.	0	2	1	0	0	0	1	0	0	3	0	2
							Maximum Daily Rainfall					0.87
							Maximum Monthly Rainfall					0.91
							Total Annual Rainfall					1.73
							Number of Days with Rain					9

**Notes:**

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Total annual rainfall in millimeters: 44

Total down-time: 0.00 days





**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5						.79						
6						.31						
7						.16						
8												
9												
10												
11												
12										.04		
13												
14												
15										.04		
16												
17												
18												
19												
20									.31			
21					.39							
22									.04		.47	
23												
24												
25												
26												
27												
28												
29										.12		
30												
31		----			----		----		----			----
SUM	0.00	0.00	0.00	0.00	0.39	1.26	0.00	0.00	0.35	0.00	0.67	0.00
ACC	0.00	0.00	0.00	0.00	0.39	1.65	1.65	1.65	2.01	2.01	2.68	2.68
MAX	0.00	0.00	0.00	0.00	0.39	0.79	0.00	0.00	0.31	0.00	0.47	0.00
NO.	0	0	0	0	1	3	0	0	2	0	4	0
							Maximum Daily Rainfall					0.79
							Maximum Monthly Rainfall					1.26
							Total Annual Rainfall					2.68
							Number of Days with Rain					10

**Notes:**

Annual rainfall in millimeters: 68

Total down-time: 0 days

## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 1999

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1							.16						
2							.71		.16				
3													
4					.20								
5					.08								
6			.16		.04								
7													
8										.16			
9													
10										.43			
11												.04	
12													
13													
14													
15												.24	
16						.08							
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27										.04	.51		
28		.35								.16			
29					----					.12			
30					----								
31		----			----		----		----		.20	----	
SUM	0.00	0.35	0.16	0.00	0.31	0.08	0.87	0.00	0.16	0.91	0.71	0.28	
ACC	0.00	0.35	0.51	0.51	0.83	0.91	1.77	1.77	1.93	2.83	3.54	3.82	
MAX	0.00	0.35	0.16	0.00	0.20	0.08	0.71	0.00	0.16	0.43	0.51	0.24	
NO.	0	1	1	0	3	1	2	0	1	5	2	2	
												Maximum Daily Rainfall	0.71
												Maximum Monthly Rainfall	0.91
												Total Annual Rainfall	3.82
												Number of Days with Rain	18

**Notes:**

Annual rainfall in millimeters: 97

Total down-time: 0 days



**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 1997**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1												.08	
2													
3							.28				.71		
4													
5													
6												.12	
7													
8											.87		
9											.04		
10													
11													
12													
13				.39									
14													
15													
16													
17													
18								.04					
19								.04					
20													
21													
22										.04			
23													
24													
25												1.50	
26				.08									
27					.12								
28					.04								
29													
30											.63		
31													
SUM	0.00	0.00	0.00	0.47	0.16	0.00	0.28	0.08	0.00	0.04	2.24	1.69	
ACC	0.00	0.00	0.00	0.47	0.63	0.63	0.91	0.98	0.98	1.02	3.27	4.96	
MAX	0.00	0.00	0.00	0.39	0.12	0.00	0.28	0.04	0.00	0.04	0.87	1.50	
NO.	0	0	0	2	2	0	1	2	0	1	4	3	
												Maximum Daily Rainfall	1.50
												Maximum Monthly Rainfall	2.24
												Total Annual Rainfall	4.96
												Number of Days with Rain	15

**Notes:**

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Annual rainfall in millimeters: 126 Total down-time: 3.5 days  
 Gage down from 9/13/97 20:34 (86) through 9/17/97 8:51 (86) due to battery failure; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 1996**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		.28										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13						.12						
14						.24				.43		
15										.83		
16												
17												
18												
19												
20												
21												
22												
23											.08	
24												
25					.20					.08		
26												
27										.04		
28												
29												
30												
31				.12								
SUM	0.00	0.28	0.00	0.12	0.20	0.35	0.00	0.00	0.00	1.38	0.08	0.00
ACC	0.00	0.28	0.28	0.39	0.59	0.94	0.94	0.94	0.94	2.32	2.40	2.40
MAX	0.00	0.28	0.00	0.12	0.20	0.24	0.00	0.00	0.00	0.83	0.08	0.00
NO.	0	1	0	1	1	2	0	0	0	4	1	0
	Maximum Daily Rainfall											0.83
	Maximum Monthly Rainfall											1.38
	Total Annual Rainfall											2.40
	Number of Days with Rain											10

**Notes:**

Annual Rainfall in mm: 61

Gage down from 8/23 19:55 (61) through 8/27 08:21 (61) for unknown reason; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 1995**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4				0.28								
5			0.47	0.24								
6						0.28						0.04
7												0.08
8												
9												
10												
11						0.24						
12		0.12				0.04				0.04		
13												
14					0.04							
15	0.04				0.43					0.08		
16												
17												
18							0.20					
19							0.08					
20												
21					0.04							
22												
23			0.20								0.04	
24			0.04								0.04	
25			0.67	0.55								
26			0.16									
27												
28												
29												
30												
31												
SUM	0.04	0.12	1.54	1.06	0.51	0.55	0.28	0.00	0.00	0.12	0.08	0.12
ACC	0.04	0.16	1.69	2.76	3.27	3.82	4.09	4.09	4.09	4.21	4.29	4.41
MAX	0.04	0.12	0.67	0.55	0.43	0.28	0.20	0.00	0.00	0.08	0.04	0.08
NO.	1	1	5	3	3	3	2	0	0	2	2	2
							Maximum Daily Rainfall					0.67
							Maximum Monthly Rainfall					1.54
							Total Annual Rainfall					4.41
							Number of Days with Rain					24

**Notes:**

Annual rainfall in mm: 112













**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Saddleback FRS (gage # 5110) for Water Year 1989**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1														
2														
3				.31										
4				.79										
5														
6				.08										
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25						.12								
26				.16		.39								
27														
28														
29														
30														
31														
SUM	----	----	0.00	1.34	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00		
ACC	----	----	0.00	1.34	1.34	1.85	1.85	1.85	1.85	1.85	1.85	1.85		
MAX	----	----	0.00	0.79	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00		
NO.	----	----	0	4	0	2	0	0	0	0	0	0		
												Maximum Daily Rainfall	0.79	
													Maximum Monthly Rainfall	1.34
													<b>Partial</b> Annual Rainfall	1.85
													Number of Days with Rain	6

No measurable rain at Saddleback FRS (5110) from 3/26/89 through 10/21/89.  
 Station Installed 12/16/1988.