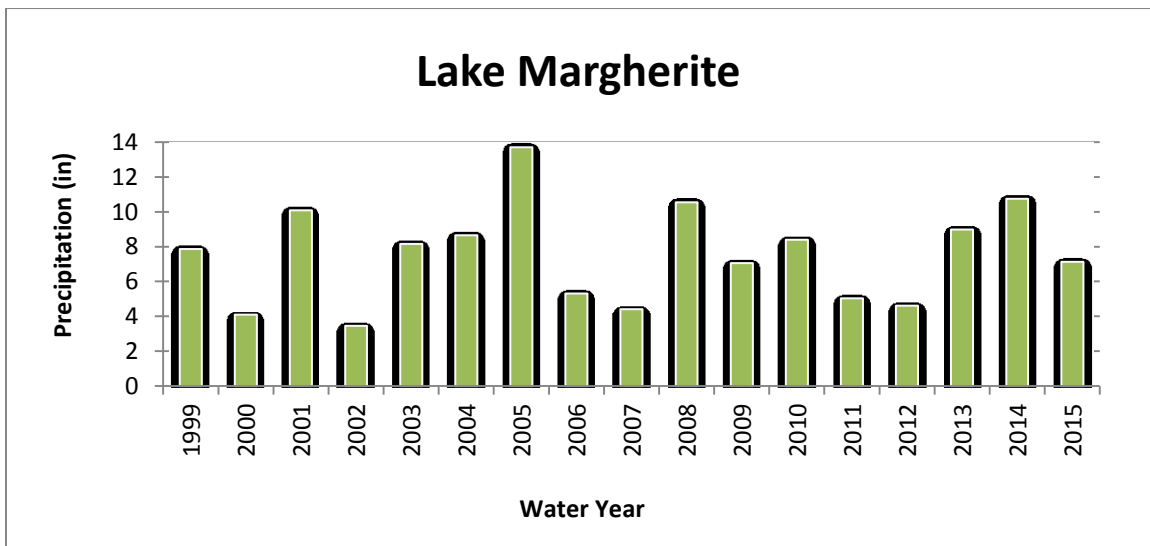




## Station Name: Lake Margherite

<b>Station ID Number History:</b>	4675 since 11/25/97
<b>Station Type:</b>	Rain/Stream
<b>Data Begins:</b>	11/25/1997
<b>Years Since Installation:</b>	17.85 (as of 10/01/15)
<b>Data Repeater:</b>	Thompson Peak
<b>County:</b>	Maricopa
<b>Latitude:</b>	33° 33' 49.2" (33.56367)
<b>Longitude:</b>	111° 53' 59.0" (111.89972)
<b>Elevation:</b>	1,325 ft. msl
<b>Location:</b>	1/4 mi. West of Doubletree and Hayden
<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:	27	
Number of storms greater than 2 inches in 24 hours:	5	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. T <sub>r</sub>
Greatest 15 minute total:	1.10" on 08/02/05	67 years
Greatest 1 hour total:	1.81" on 08/02/05	64 years
Greatest 3 hour total:	2.09" on 08/02/05	49 years
Greatest 6 hour total:	2.24" on 08/02/05	39 years
Greatest 24 hour total:	2.24" on 08/02/05	10 years
Greatest 72 hour total:	2.64" on 03/06/00	9 years

**Water Year Totals: (Mean of Complete Water Years [17] = 7.54 inches)**

Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	8.39	2000	4.09
2019		2009	7.05	1999	7.87
2018		2008	10.55	1998	M
2017		2007	4.41	1997	
2016		2006	5.31	1996	
2015	7.13	2005	13.70	1995	
2014	10.75	2004	8.66	1994	
2013	8.98	2003	8.15	1993	
2012	4.61	2002	3.46	1992	
2011	5.04	2001	10.08	1991	

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 Lake Margherite (gage # 4675) for Water Year 2012

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3			.08									
4	.04	.16										
5		.31										
6												
7		.28										.12
8												
9								.08				
10												
11										.04		.04
12		.04	.31							.24		
13		.20	.67									
14			.08				.04			.08		
15												
16											.04	
17											.08	
18			.08			.28						
19						.04						
20												
21		.12									.31	
22										.04	.08	
23											.43	
24												
25												
26												
27												
28										.16		
29										.12		
30					----							
31		----			----		----		----	.04		----
SUM	0.04	1.10	1.22	0.00	0.00	0.32	0.04	0.08	0.00	0.71	0.94	0.16
ACC	0.04	1.14	2.36	2.36	2.36	2.68	2.72	2.80	2.80	3.50	4.45	4.61
MAX	0.04	0.31	0.67	0.00	0.00	0.28	0.04	0.08	0.00	0.24	0.43	0.12
NO.	1	6	5	0	0	2	1	1	0	7	5	2
							Maximum Daily Rainfall					0.67
							Maximum Monthly Rainfall					1.22
							Total Annual Rainfall					4.61
							Number of Days with Rain					32

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2011

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3											.08	
4												
5	.63											
6	.08						.04					
7												
8												
9							.43					
10												.08
11										.59		
12												
13											.04	.04
14												
15												
16			.20									
17			.04									
18								.12			.04	
19					.35							
20												
21	.35					.08						
22			.24			.04						
23			.04									
24										.04		
25												
26					.04							
27					.43							
28												
29			.79		----							
30			.16		----							
31		----			----		----		----	.08		----
SUM	1.06	0.00	1.46	0.00	0.83	0.12	0.47	0.12	0.00	0.71	0.16	0.12
ACC	1.06	1.06	2.52	2.52	3.35	3.46	3.94	4.06	4.06	4.76	4.92	5.04
MAX	0.63	0.00	0.79	0.00	0.43	0.08	0.43	0.12	0.00	0.59	0.08	0.08
NO.	3	0	6	0	3	2	2	1	0	3	3	2
							Maximum Daily Rainfall					0.79
							Maximum Monthly Rainfall					1.46
							Total Annual Rainfall					5.04
							Number of Days with Rain					22

Annual Total (mm): 128

Days Down: 0

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2010**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5												
6												
7			.39		.08	.59						
8						.08						
9						.12						
10												
11			----									
12			----									
13			----			----						
14												
15												
16										.08		
17											.47	
18				.08								
19				.98								
20					.16							
21				1.46	.27						.20	
22			.24	.31	.08		.04				.16	
23			.04	.12		.04						
24												
25												
26												
27												
28					.79							
29					----							
30					----							
31		----			----		----		----	1.61		----
SUM	0.00	0.00	0.67	2.95	1.38	0.83	0.04	0.00	0.00	1.69	0.83	0.00
ACC	0.00	0.00	0.67	3.62	5.00	5.83	5.87	5.87	5.87	7.56	8.39	8.39
MAX	0.00	0.00	0.39	1.46	0.79	0.59	0.04	0.00	0.00	1.61	0.47	0.00
NO.	0	0	3	5	5	4	1	0	0	2	3	0
										Maximum Daily Rainfall		1.61
										Maximum Monthly Rainfall		2.95
										Total Annual Rainfall		8.39
										Number of Days with Rain		22

**Notes:**

Annual rainfall in millimeters: 213  
 Gage 4675 down from 12/10 13:18 (10) through 12/14 07:19 (10) due to repeater failure; no rain fell.







## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2007

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1														
2														
3														
4														
5				.04										
6	.20													
7														
8	.16													
9														
10														
11														
12							.04							
13					.04		.12							
14	.20										.31			
15						.04								
16										.12				
17						.04								
18						.04								
19				.20	.28									
20					.08									
21				.28		.04	.12							
22			.28			.75						.04		
23						.04								
24														
25											.20			
26														
27														
28			.08											
29			.04		----									
30				.04	----					.35				
31		----		.24	----		----		----	.04		----		
SUM	0.55	0.00	0.39	0.79	0.39	0.94	0.28	0.00	0.00	0.51	0.51	0.04		
ACC	0.55	0.55	0.94	1.73	2.13	3.07	3.35	3.35	3.35	3.86	4.37	4.41		
MAX	0.20	0.00	0.28	0.28	0.28	0.75	0.12	0.00	0.00	0.35	0.31	0.04		
NO.	3	0	3	5	3	6	3	0	0	3	2	1		
													Maximum Daily Rainfall	0.75
													Maximum Monthly Rainfall	0.94
													Total Annual Rainfall	4.41
													Number of Days with Rain	29

**Notes:**

Annual rainfall in millimeters: 112

Total down-time: 0.00 days

## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2006

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												.08
3												
4												.08
5							.04					
6												
7												.04
8												
9												
10												
11						1.30					.08	
12											.43	
13												
14												
15												
16												
17	.04											
18	.20											
19						.20						
20												
21						.04					.08	
22												
23												
24										.24	1.69	
25										.47		
26										.28		
27												
28												
29												
30										.04		
31												
SUM	0.24	0.00	0.00	0.00	0.00	1.54	0.04	0.00	0.00	1.02	2.28	0.20
ACC	0.24	0.24	0.24	0.24	0.24	1.77	1.81	1.81	1.81	2.83	5.12	5.31
MAX	0.20	0.00	0.00	0.00	0.00	1.30	0.04	0.00	0.00	0.47	1.69	0.08
NO.	2	0	0	0	0	3	1	0	0	4	4	3
							Maximum Daily Rainfall					1.69
							Maximum Monthly Rainfall					2.28
							Total Annual Rainfall					5.31
							Number of Days with Rain					17

**Notes:**

Annual rainfall in millimeters: 135

Total down-time: 0.00 days

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2005**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											2.09	
3				1.18							.16	
4			.28	.59								
5			.16			.28						
6			.28		.04	.08						
7		.12									.12	
8		.04									.08	
9											.24	
10					.08							
11				.16	.98							
12					.55						.55	
13					.04							
14												
15												
16												
17					.12							
18					.35							
19					.83							
20		.04			.28							
21	.43	.08			.16					.12		
22		.24			.04				.04	.08	.04	
23							.31					
24				.12	.12		.12					
25						.08						
26				.35								
27				.04								
28	.47		.12									
29			.87	.16	-----							
30					-----							
31		-----		.04	-----		-----		-----			-----
SUM	0.91	0.51	1.69	2.64	3.58	0.43	0.43	0.00	0.04	0.20	3.27	0.00
ACC	0.91	1.42	3.11	5.75	9.33	9.76	10.20	10.20	10.24	10.43	13.70	13.70
MAX	0.47	0.24	0.87	1.18	0.98	0.28	0.31	0.00	0.04	0.12	2.09	0.00
NO.	2	5	5	8	12	3	2	0	1	2	7	0
							Maximum Daily Rainfall					2.09
							Maximum Monthly Rainfall					3.58
							Total Annual Rainfall					13.70
							Number of Days with Rain					47

**Notes:**

Annual rainfall in millimeters: 348

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2003

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1						.08					.04	
2	.04											
3												
4												
5												
6												
7												
8				.47								
9				.08								
10												
11												
12					.08							
13					1.89							
14					.43						.24	
15					.24		.28					
16						.31						
17			.08			.31						
18												
19											.20	
20			.04	.20								
21										.04		
22			.04									
23	.12		.31								.28	
24												.04
25					.71							
26	.12				.16							
27					.35						.04	
28					.20							
29		.24			-----					.47		
30					-----					.04		
31		-----			-----		-----		-----			-----
SUM	0.28	0.24	0.47	0.75	4.06	0.71	0.28	0.00	0.00	0.55	0.79	0.04
ACC	0.28	0.51	0.98	1.73	5.79	6.50	6.77	6.77	6.77	7.32	8.11	8.15
MAX	0.12	0.24	0.31	0.47	1.89	0.31	0.28	0.00	0.00	0.47	0.28	0.04
NO.	3	1	4	3	8	3	1	0	0	3	5	1
							Maximum Daily Rainfall					1.89
							Maximum Monthly Rainfall					4.06
							Total Annual Rainfall					8.15
							Number of Days with Rain					32

**Notes:**

Total annual rainfall in millimeters: 207

Total down-time: 0.00 days







## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1													
2													
3													
4						.04							
5						.79							
6						1.42							
7						.39							
8													
9													
10													
11												----	
12												----	
13													
14													
15													
16													
17											.24		
18													
19													
20									.35				
21													
22									.71				
23													
24											.04		
25													
26													
27													
28						.12							
29													
30													
31													
SUM	0.00	0.00	0.00	0.00	0.00	2.76	0.00	0.00	1.06	0.00	0.28	0.00	
ACC	0.00	0.00	0.00	0.00	0.00	2.76	2.76	2.76	3.82	3.82	4.09	4.09	
MAX	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.71	0.00	0.24	0.00	
NO.	0	0	0	0	0	5	0	0	2	0	2	0	
												Maximum Daily Rainfall	1.42
												Maximum Monthly Rainfall	2.76
												Total Annual Rainfall	4.09
												Number of Days with Rain	9

**Notes:**

Annual rainfall in millimeters: 104 Total down-time: 2.50 days  
 Gage 4675 down from 9/10 12:22 (104) through 9/13 00:21 (104) due to battery failure; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 1999

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1							.28							
2							.47							
3										.04				
4					.24		.24							
5					.04					.04				
6										.35				
7			.31							.98				
8														
9										.04				
10										.04	.04			
11										.04				
12												.04		
13							.04							
14										1.26		.20		
15			.04							.35		.28		
16						.20								
17														
18														
19											.20	1.10		
20														
21														
22											.04			
23										.28				
24														
25														
26	.08			.04										
27											.04			
28		.08												
29					----									
30	.08				----									
31		----			----		----		----		.35	----		
SUM	0.16	0.08	0.35	0.04	0.28	0.20	1.02	0.00	0.00	3.43	0.67	1.61		
ACC	0.16	0.24	0.59	0.63	0.91	1.10	2.13	2.13	2.13	5.59	6.26	7.87		
MAX	0.08	0.08	0.31	0.04	0.24	0.20	0.47	0.00	0.00	1.26	0.35	1.10		
NO.	2	1	2	1	2	1	4	0	0	10	5	4		
													Maximum Daily Rainfall	1.26
													Maximum Monthly Rainfall	3.46
													Total Annual Rainfall	7.87
													Number of Days with Rain	32

**Notes:**

Annual rainfall in millimeters: 200

Total down-time: 0 days

**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Lake Margherite (gage # 4675) for Water Year 1998

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	----	----	.16				.24				.04	.04	
2	----	----	.04							.04			
3	----	----			.04					.08		.04	
4	----	----			1.10					----		.12	
5	----	----								.04		.04	
6	----	----	.08							.16		.59	
7	----	----	.24		.04								
8	----	----	.04		.55								
9	----	----			.28							.04	
10	----	----		.35								.04	
11	----	----										.12	
12	----	----		.04			.24						
13	----	----						.08					
14	----	----			.08	.12							
15	----	----			.59	.12					.16		
16	----	----										.16	
17	----	----			.59						.24	.12	
18	----	----			.04								
19	----	----									.04		
20	----	----			.20								
21	----	----	.20										
22	----	----	.47									.12	
23	----	----										.04	
24	----	----	.08		.63								
25	----	----											
26	----	----				1.69							
27	----	----									.04		
28	----	----				.39					.20		
29	----	----			----	.20							
30	----	----			----								
31	----	----			----		----		----			----	
SUM	----	0.00	1.30	0.39	4.13	2.52	0.47	0.08	0.00	0.31	0.71	1.46	
ACC	----	0.00	1.30	1.69	5.83	8.39	8.86	8.94	8.94	9.25	9.96	11.42	
MAX	----	0.00	0.47	0.35	1.10	1.69	0.24	0.08	0.00	0.16	0.24	0.59	
NO.	----	0	8	2	11	5	2	1	0	4	6	12	
												Maximum Daily Rainfall	1.69
												Maximum Monthly Rainfall	4.13
												<b>Partial</b> Annual Rainfall	11.42
												Number of Days with Rain	51

**Notes:**

Annual rainfall in millimeters: 290

Total down-time: 3.3 days

Station installed on 11/25/97.

Gage down from 7/03 5:25 (233) through 7/06 13:15 (234) due to battery failure; assigned 1mm to 7/05.