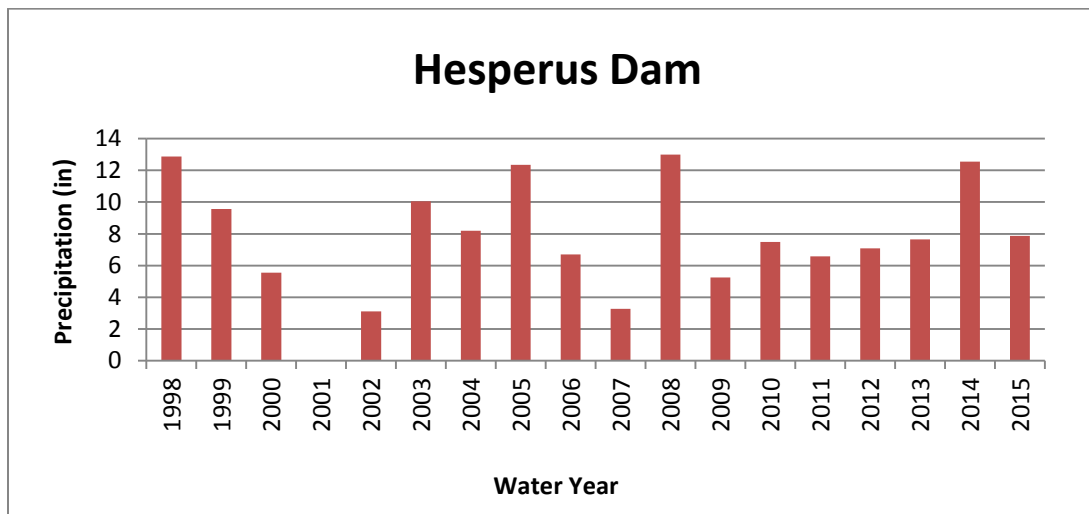




### Station Name: Hesperus Dam

<b>Station ID Number History:</b>	<b>5990</b> since 12/18/96
<b>Data Begins:</b>	12/18/1996
<b>Years Since Installation:</b>	18.78 (as of 10/01/15)
<b>Data Repeater:</b>	Thompson Peak
<b>County:</b>	Maricopa
<b>Latitude:</b>	33° 38' 11.8" (33.63661)
<b>Longitude:</b>	111° 44' 47.6" (111.74656)
<b>Elevation:</b>	1,895 ft. msl
<b>Location:</b>	1/4 mi. N of Richwood Ave. & Golden Eagle Blvd. in Fountain Hills
<b>Data Record:</b>	
Incomplete Months:	10/00
Missing Months:	None
<b>Remarks:</b>	Records Fair



**Data Statistics for Period of Record:**

Number of storms greater than 1 inch in 24 hours:	41	
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:	0.83" on 05/04/15	9 years
Greatest 1 hour total:	1.14" on 08/28/08	5 years
Greatest 3 hour total:	1.34" on 09/27/14	5 years
Greatest 6 hour total:	1.69" on 09/08/14	6 years
Greatest 24 hour total:	2.56" on 03/05/04	7 years
Greatest 72 hour total:	3.15" on 01/21/10	6 years

**Water Year Totals: (Mean of Complete Water Years [17] = 8.18 inches)**

Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	7.48	2000	5.55
2019		2009	5.24	1999	9.57
2018		2008	12.99	1998	12.87
2017		2007	3.27	1997	M
2016		2006	6.69	1996	
2015	7.87	2005	12.36	1995	
2014	12.56	2004	8.19	1994	
2013	7.64	2003	10.04	1993	
2012	7.09	2002	3.11	1992	
2011	6.57	2001	M	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 Hesperus Dam (gage # 5990) for Water Year 2011**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3										.24		
4												
5	1.02											
6	.04						.04					
7												
8												
9							.31					
10							.04					.12
11										.08		
12												
13												.04
14												
15												
16			.28									
17												
18								.12			.67	
19					.28							
20					.08							
21	.51	.12				.20						
22			.20									
23												
24										.20		
25										.08		
26												
27					.51							
28												
29			1.14		----							
30			.24		----							
31		----			----		----		----	.04		----
SUM	1.57	0.12	1.85	0.00	0.87	0.20	0.39	0.12	0.00	0.63	0.67	0.16
ACC	1.57	1.69	3.54	3.54	4.41	4.61	5.00	5.12	5.12	5.75	6.42	6.57
MAX	1.02	0.12	1.14	0.00	0.51	0.20	0.31	0.12	0.00	0.24	0.67	0.12
NO.	3	1	4	0	3	1	3	1	0	5	1	2
							Maximum Daily Rainfall					1.14
							Maximum Monthly Rainfall					1.85
							Total Annual Rainfall					6.57
							Number of Days with Rain					24

Annual Total (mm): 167

Days Down: 0





**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4				.35								
5												
6												
7					.04							
8					.94							.16
9				.04	.71							.20
10					.04							
11							.43					
12												
13											.04	
14												
15												
16			.12									
17					.08							
18			.04									
19												
20												
21								.12			.16	
22			.12					.28				
23			.08									
24										.08		
25			.55									
26		.16	.35									
27		.16										
28												
29												
30												
31												
SUM	0.00	0.31	1.26	0.39	1.81	0.00	0.43	0.39	0.00	0.08	0.20	0.35
ACC	0.00	0.31	1.57	1.97	3.78	3.78	4.21	4.61	4.61	4.69	4.88	5.24
MAX	0.00	0.16	0.55	0.35	0.94	0.00	0.43	0.28	0.00	0.08	0.16	0.20
NO.	0	2	6	2	5	0	1	2	0	1	2	2
	Maximum Daily Rainfall											0.94
	Maximum Monthly Rainfall											1.81
	Total Annual Rainfall											5.24
	Number of Days with Rain											23

**Notes:**

Annual rainfall in millimeters: 133

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2007

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5												
6	.12											
7												
8												
9												
10												
11												
12							.12					
13							.12					
14												
15												
16												
17			.04									
18												
19				.16	.20					.24		
20					.08							
21				.28						.24		
22			.04			.51						
23												
24										.16		
25												
26												
27												
28			.08									
29												
30			.04	.04						.04		
31				.79								

SUM	0.12	0.00	0.20	1.26	0.28	0.51	0.24	0.00	0.00	0.67	0.00	0.00
ACC	0.12	0.12	0.31	1.57	1.85	2.36	2.60	2.60	2.60	3.27	3.27	3.27
MAX	0.12	0.00	0.08	0.79	0.20	0.51	0.12	0.00	0.00	0.24	0.00	0.00
NO.	1	0	4	4	2	1	2	0	0	4	0	0

Maximum Daily Rainfall	0.79
Maximum Monthly Rainfall	1.26
Total Annual Rainfall	3.27
Number of Days with Rain	18

**Notes:**

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Annual rainfall in millimeters: 83 Total down-time: 0.00 days

**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2006

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											.04	
3												.04
4												.08
5												
6												
7												.51
8												
9												.12
10												
11						1.42					.79	
12						.08					.39	
13												.08
14											.28	.08
15												
16								.08				
17	.43											
18	.16											
19						.20						
20												
21												
22												
23										.39		
24												
25										.43		
26										.16		
27												
28												
29					----					.35		
30					----				.16	.39		
31		----			----		----		----			----
SUM	0.59	0.00	0.00	0.00	0.00	1.69	0.00	0.08	0.16	1.73	1.50	0.91
ACC	0.59	0.59	0.59	0.59	0.59	2.32	2.32	2.40	2.56	4.29	5.79	6.69
MAX	0.43	0.00	0.00	0.00	0.00	1.42	0.00	0.08	0.16	0.43	0.79	0.51
NO.	2	0	0	0	0	3	0	1	1	5	4	6
											Maximum Daily Rainfall	1.42
											Maximum Monthly Rainfall	1.73
											Total Annual Rainfall	6.69
											Number of Days with Rain	22

**Notes:**

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Annual rainfall in millimeters: 170

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2004**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1							.12					
2							1.22					
3					.04							
4						1.57						.04
5						.98						
6												
7							.04					
8												
9												
10	.91						.04					
11			.20			.04						
12		.24										
13						.12						
14										.12		
15											.20	
16												
17												
18	-----											.04
19	-----											.43
20												
21				.12								
22				.39								
23					.51							
24				.04								
25				.16								
26			.12							.24		
27					.12							
28												.16
29												
30						-----						
31		-----				-----	-----	-----	-----			-----
SUM	0.91	0.24	0.31	0.71	0.67	2.72	1.42	0.00	0.00	0.35	0.20	0.67
ACC	0.91	1.14	1.46	2.17	2.83	5.55	6.97	6.97	6.97	7.32	7.52	8.19
MAX	0.91	0.24	0.20	0.39	0.51	1.57	1.22	0.00	0.00	0.24	0.20	0.43
NO.	1	1	2	4	3	4	4	0	0	2	1	4
							Maximum Daily Rainfall					1.57
							Maximum Monthly Rainfall					2.72
							Total Annual Rainfall					8.19
							Number of Days with Rain					26

**Notes:**

Annual rainfall in millimeters: 208 Total down-time: 3.47 days  
 Gage 5990 down from 10/17 02:18 (23) through 10/20 13:42 (23) due to battery failure; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2003

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1						.12					.08	
2	.04					.08						
3												
4												
5												
6												
7												
8				.24	.12							
9												
10												
11												
12					.16							
13					1.65							
14					.47						.91	
15							.20					
16						.79						
17	.12		.16			.63						
18												
19											.31	
20												
21										.04		
22			.04									
23			.55									
24			.04									.04
25					1.22							
26	.16				.28						.08	
27					.35							
28					.24							
29		.43			-----					.35		
30		.16			-----							
31		-----			-----		-----		-----			-----
SUM	0.31	0.59	0.79	0.24	4.49	1.61	0.20	0.00	0.00	0.39	1.38	0.04
ACC	0.31	0.91	1.69	1.93	6.42	8.03	8.23	8.23	8.23	8.62	10.00	10.04
MAX	0.16	0.43	0.55	0.24	1.65	0.79	0.20	0.00	0.00	0.35	0.91	0.04
NO.	3	2	4	1	8	4	1	0	0	2	4	1
	Maximum Daily Rainfall											1.65
	Maximum Monthly Rainfall											4.49
	Total Annual Rainfall											10.04
	Number of Days with Rain											30

**Notes:**

Total annual rainfall in millimeters: 255

Total down-time: 0.00 days

**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2002

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1											.12	
2												
3												
4			.47									
5		.04									.28	
6	.04						.04					
7						.04	.12					
8												
9												
10												.75
11			.04									
12												
13										.16		
14												
15										.04		
16												
17												
18												
19												
20												
21												
22												
23										.75		
24												
25												
26												
27												
28											.04	
29												
30				.20								
31												
SUM	0.04	0.04	0.51	0.20	0.00	0.04	0.16	0.00	0.00	0.94	0.43	0.75
ACC	0.04	0.08	0.59	0.79	0.79	0.83	0.98	0.98	0.98	1.93	2.36	3.11
MAX	0.04	0.04	0.47	0.20	0.00	0.04	0.12	0.00	0.00	0.75	0.28	0.75
NO.	1	1	2	1	0	1	2	0	0	3	3	1
							Maximum Daily Rainfall					0.75
							Maximum Monthly Rainfall					0.94
							Total Annual Rainfall					3.11
							Number of Days with Rain					15

**Notes:**

Total annual rainfall in millimeters: 79

Total down-time: 0.00 days





### Flood Control District of Maricopa County ALERT System

#### Daily Rainfall at Hesperus Dam (gage # 5990) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2				.08								
3											.04	
4												
5						.75						
6						.75						
7						1.42					.59	
8												
9												
10												
11					----							
12					----							
13					----							
14												
15												
16												
17											.24	
18												
19												
20												
21					.08					.28		
22												
23									.16	.04		
24									.12		.08	
25												
26												
27												
28						.24			.20			
29									.12			
30					----				.04	.08	.28	
31		----			----		----		----			----
SUM	0.00	0.00	0.00	0.08	0.08	3.15	0.00	0.00	0.63	0.39	1.22	0.00
ACC	0.00	0.00	0.00	0.08	0.16	3.31	3.31	3.31	3.94	4.33	5.55	5.55
MAX	0.00	0.00	0.00	0.08	0.08	1.42	0.00	0.00	0.20	0.28	0.59	0.00
NO.	0	0	0	1	1	4	0	0	5	3	5	0
											Maximum Daily Rainfall	1.42
											Maximum Monthly Rainfall	3.15
											Total Annual Rainfall	5.55
											Number of Days with Rain	19

**Notes:**

Annual rainfall in millimeters: 141 Total down-time: 4.0 days  
 Gage 5990 down from 2/10 19:05 (2) through 2/14 19:04 (2) due to repeater failure; no rain fell.





