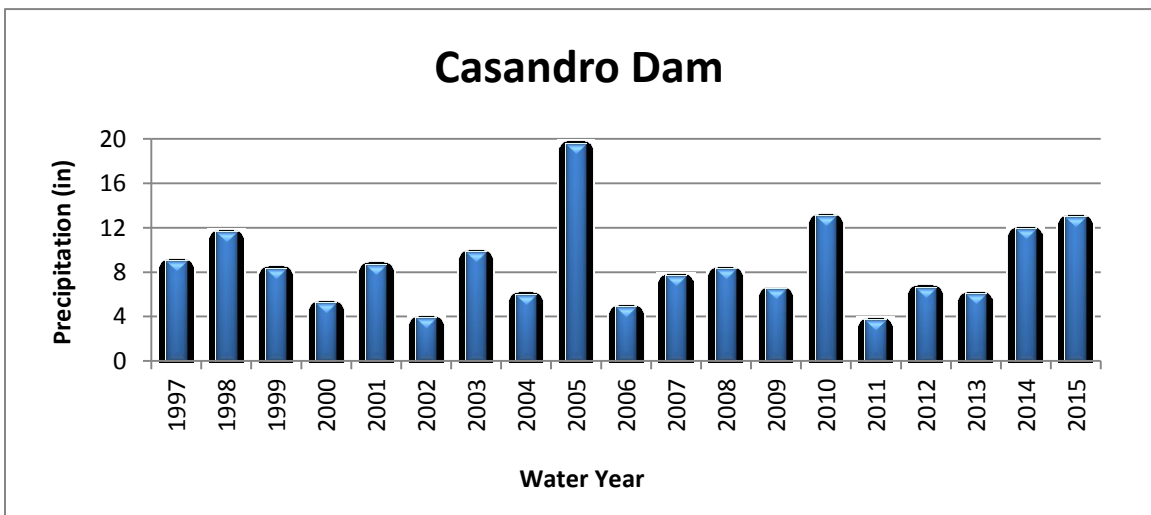




## Station Name: Casandro Dam

<b>Station ID Number History:</b>	7130 since 08/15/96
<b>Station Type:</b>	Rain / Stage
<b>Data Begins:</b>	08/15/1996
<b>Years Since Installation:</b>	19.13 (as of 10/01/15)
<b>Data Repeater:</b>	Yarnell Hill
<b>County:</b>	Maricopa
<b>Latitude:</b>	33° 58' 02.8" (33.96744)
<b>Longitude:</b>	112° 44' 54.7" (112.74853)
<b>Elevation:</b>	2,165 ft msl
<b>Location:</b>	1.1 miles west of the US60 / US93 junction
<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:	46	
Number of storms greater than 2 inches in 24 hours:	5	
Number of storms greater than 3 inches in 24 hours:	3	
		Approx. T <sub>r</sub>
Greatest 15 minute total:	1.50" on 07/18/15	100 years
Greatest 1 hour total:	3.27" on 07/18/15	707 years
Greatest 3 hour total:	3.94" on 07/18/15	582 years
Greatest 6 hour total:	3.94" on 07/18/15	303 years
Greatest 24 hour total:	4.06" on 07/18/15	73 years
Greatest 72 hour total:	4.69" on 01/21/10	75 years

**Water Year Totals: (Mean of Complete Water Years [19] = 8.58 inches)**

Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	12.99	2000	5.20
2019		2009	6.46	1999	8.31
2018		2008	8.23	1998	11.61
2017		2007	7.64	1997	8.98
2016		2006	4.80	1996	M
2015	12.95	2005	19.57	1995	
2014	11.85	2004	5.98	1994	
2013	6.02	2003	9.76	1993	
2012	6.61	2002	3.82	1992	
2011	3.62	2001	8.66	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 Casandro Dam (gage # 7130) for Water Year 2013

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1												.04	
2													
3													
4													
5													
6													
7													
8						.31						.04	
9					.04							.16	
10												.51	
11													
12													
13			.04										
14			.31										
15			.39										
16										.39			
17										.16			
18			.04							.04			
19													
20					.16								
21					.08					.04			
22										.20			
23													
24				.04						.24	.51		
25				.08							.04		
26				1.02						.08	.91		
27				.12									
28													
29											.04		
30													
31													
SUM	0.00	0.00	0.79	1.26	0.28	0.31	0.00	0.00	0.00	1.14	1.50	0.75	
ACC	0.00	0.00	0.79	2.05	2.32	2.64	2.64	2.64	2.64	3.78	5.28	6.02	
MAX	0.00	0.00	0.39	1.02	0.16	0.31	0.00	0.00	0.00	0.39	0.91	0.51	
NO.	0	0	4	4	3	1	0	0	0	7	4	4	
												Maximum Daily Rainfall	1.02
												Maximum Monthly Rainfall	1.50
												Total Annual Rainfall	6.02
												Number of Days with Rain	27

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**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2010**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1											.24	
2												
3												
4												
5												
6					.08	.08						
7			1.57		.28	1.14					.08	
8			.04			.16						
9						.04						
10					.04							
11												
12												
13			.08									
14												
15												
16												
17											.31	
18				.12								
19				1.26								
20				.04	.47							
21				3.39	.28						.12	
22			.04	.04							1.10	
23										.55	.12	
24											.28	
25										.04		
26												
27					.35							
28					.20							
29					----					.35		
30					----							
31		----			----		----		----	.12		----
SUM	0.00	0.00	1.73	4.84	1.70	1.42	0.00	0.00	0.00	1.06	2.24	0.00
ACC	0.00	0.00	1.73	6.57	8.27	9.69	9.69	9.69	9.69	10.75	12.99	12.99
MAX	0.00	0.00	1.57	3.39	0.47	1.14	0.00	0.00	0.00	0.55	1.10	0.00
NO.	0	0	4	5	7	4	0	0	0	4	7	0
	Maximum Daily Rainfall											3.39
	Maximum Monthly Rainfall											4.84
	Total Annual Rainfall											12.99
	Number of Days with Rain											31

**Notes:**

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Annual rainfall in millimeters: 273



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2										.12		
3										.20		
4												
5												.20
6											.04	
7					.20							
8					.16							
9					.28							
10					.04							
11							.87					
12							.04					
13												
14			.08									
15												
16			.51									
17			1.02		.04							
18			.04									
19												
20												
21								.20		.16		
22								.12			.04	
23												
24												
25			.83							.04		
26		.35	.04									
27		.87										
28												
29					----							
30					----							
31		----			----		----		----			----
SUM	0.00	1.22	2.52	0.00	0.71	0.00	0.91	0.31	0.00	0.51	0.08	0.20
ACC	0.00	1.22	3.74	3.74	4.45	4.45	5.35	5.67	5.67	6.18	6.26	6.46
MAX	0.00	0.87	1.02	0.00	0.28	0.00	0.87	0.20	0.00	0.20	0.04	0.20
NO.	0	2	6	0	5	0	2	2	0	4	2	1
							Maximum Daily Rainfall					1.02
							Maximum Monthly Rainfall					2.52
							Total Annual Rainfall					6.46
							Number of Days with Rain					24

**Notes:**

Annual rainfall in millimeters: 164

Total down-time: 0.00 days



**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2007**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1										----	1.30	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12							.04					
13												
14	.28										.04	
15												
16												
17												
18												
19				.16	.35							
20				.04	.04							
21												.04
22						.71						.87
23						.12						.04
24						.04						
25										1.69		
26												
27												
28			.12							.67		
29			.04									
30				.08								
31		----		.94						.04		----
SUM	0.28	0.00	0.16	1.22	0.39	0.87	0.04	0.00	0.00	2.40	1.34	0.94
ACC	0.28	0.28	0.43	1.65	2.05	2.91	2.95	2.95	2.95	5.35	6.69	7.64
MAX	0.28	0.00	0.12	0.94	0.35	0.71	0.04	0.00	0.00	1.69	1.30	0.87
NO.	1	0	2	4	2	3	1	0	0	3	2	3
											Maximum Daily Rainfall	1.69
											Maximum Monthly Rainfall	2.40
											Total Annual Rainfall	7.64
											Number of Days with Rain	21

**Notes:**

Annual rainfall in millimeters: 194 Total down-time: 4.34 days  
 Gage 7130 down from 6/28 03:36 (75) through 7/02 11:48 (75) due to data collision; no rain fell.

## Flood Control District of Maricopa County ALERT System

### Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2006

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												.12
3												
4												
5										.08		
6												
7									.20			.63
8												.08
9											.08	1.38
10												
11		.04				.24					.31	
12											.20	
13												
14	----											.12
15	----											
16										.04		
17										.08		
18	.16											
19						.16						
20												
21						.08						.04
22												
23												
24											.16	
25										.12		
26										.04		
27												
28												
29					----							
30					----							
31		----			----		----		----		.47	----
SUM	0.16	0.04	0.00	0.00	0.00	0.47	0.00	0.00	0.20	0.35	1.26	2.32
ACC	0.16	0.20	0.20	0.20	0.20	0.67	0.67	0.67	0.87	1.22	2.48	4.80
MAX	0.16	0.04	0.00	0.00	0.00	0.24	0.00	0.00	0.20	0.12	0.47	1.38
NO.	1	1	0	0	0	3	0	0	1	5	6	5
							Maximum Daily Rainfall					1.38
							Maximum Monthly Rainfall					2.32
							Total Annual Rainfall					4.80
							Number of Days with Rain					22

**Notes:**

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Annual rainfall in millimeters: 122 Total down-time: 2.63 days  
 Gage 7130 down from 10/13 19:38 (0) through 10/16 10:38 (0) for unknown reason; no rain fell.

## Flood Control District of Maricopa County ALERT System Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2005

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											.12	
3				.83							.04	
4				.63								
5			.51			.16						
6			.24		.12							
7		.79										
8		.35									.04	
9											.75	
10					.16						.08	
11				.04	1.89						.79	
12		.39			.71						.39	
13												
14												
15		.04										
16												
17					.04							
18	-----				.31							
19	-----				.83	.31						
20	-----				.04	.04						
21	1.50	.20			.04					.51		
22		.55			.55							
23					.04		.16			1.10		
24					.04		.08			.16		
25										.28		
26				.35								
27	.16											
28	.91		.24									
29			1.30	.39	-----							
30					-----					.39		
31		-----			-----		-----		-----			-----

---

SUM	2.56	2.32	2.28	2.24	4.76	0.51	0.24	0.00	0.00	2.44	2.20	0.00
ACC	2.56	4.88	7.17	9.41	14.17	14.69	14.92	14.92	14.92	17.36	19.57	19.57
MAX	1.50	0.79	1.30	0.83	1.89	0.31	0.16	0.00	0.00	1.10	0.79	0.00
NO.	3	6	4	5	12	3	2	0	0	5	7	0

Maximum Daily Rainfall        1.89  
Maximum Monthly Rainfall        4.76  
Total Annual Rainfall            19.57  
Number of Days with Rain        47

### **Notes:**

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Annual rainfall in millimeters: 497 Total down-time: 3.95 days  
Gage 7130 down from 10/17 09:13 (0) through 10/21 08:07 (0) due to battery failure; no rain fell.





**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2002

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4			.24								.08	
5		.16										
6	.04											.98
7	.47											.39
8												.12
9										.59		
10											-----	.20
11											-----	.04
12												
13												
14			.04							.39		
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												.08
28												
29												
30												
31		-----										
SUM	0.51	0.16	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.08	1.81
ACC	0.51	0.67	0.94	0.94	0.94	0.94	0.94	0.94	0.94	1.93	2.01	3.82
MAX	0.47	0.16	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.08	0.98
NO.	2	1	2	0	0	0	0	0	0	2	1	6
	Maximum Daily Rainfall											0.98
	Maximum Monthly Rainfall											1.81
	Total Annual Rainfall											3.82
	Number of Days with Rain											14

**Notes:**

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Total annual rainfall in millimeters: 97 Total down-time: 2.50 days  
 Gage 7130 down from 08/09 21:29 (51) through 08/12 09:30 (51) for unknown reason; no rain fell.





**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 2000**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2				.12								
3												
4												
5						.87						
6						.39					.16	
7						.24					.04	
8												
9												
10												
11												
12												
13											.04	
14												
15												
16												
17												
18												
19												
20												
21					.59							
22					.04				.04			
23									.16		.04	
24												
25										----	.04	
26										----		
27											1.14	
28												
29									.04		1.22	
30					----							
31		----			----	.04	----		----			----
SUM	0.00	0.00	0.00	0.12	0.63	1.54	0.00	0.00	0.24	0.00	2.68	0.00
ACC	0.00	0.00	0.00	0.12	0.75	2.28	2.28	2.28	2.52	2.52	5.20	5.20
MAX	0.00	0.00	0.00	0.12	0.59	0.87	0.00	0.00	0.16	0.00	1.22	0.00
NO.	0	0	0	1	2	4	0	0	3	0	7	0
											Maximum Daily Rainfall	1.22
											Maximum Monthly Rainfall	2.68
											Total Annual Rainfall	5.20
											Number of Days with Rain	17

**Notes:**

Annual rainfall in millimeters: 132 Total down-time: 2.49 days  
 Gage 7130 down from 7/24 22:03 (64) through 7/27 09:55 (64) due to lightning strike; no rain fell.



**Flood Control District of Maricopa County ALERT System**  
Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 1998

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.04				.20					
2												
3				.16	.24							
4				.12	.75							.47
5												
6			.24									.04
7			.59		.04						.39	
8			.04		.59						.28	
9				.08	.43							
10				.47								
11												.04
12							.20				.59	
13		.16						.16			.31	
14		.08			.20							
15					.24	.04						
16												
17					.91	.08					.28	
18					.04							
19										.39		
20					.24							
21			.39							.16		
22			.51									
23												
24					.28						.24	
25												
26						.47						
27												
28						.24						
29					----							
30					----							
31		----			----		----		----		.24	----
SUM	0.00	0.24	1.81	0.83	3.94	0.83	0.39	0.16	0.00	0.55	2.32	0.55
ACC	0.00	0.24	2.05	2.87	6.81	7.64	8.03	8.19	8.19	8.74	11.06	11.61
MAX	0.00	0.16	0.59	0.47	0.91	0.47	0.20	0.16	0.00	0.39	0.59	0.47
NO.	0	2	6	4	11	4	2	1	0	2	7	3
							Maximum Daily Rainfall					0.91
							Maximum Monthly Rainfall					3.94
							Total Annual Rainfall					11.61
							Number of Days with Rain					42

**Notes:**

Annual rainfall in millimeters: 295

Total down-time: 0 days

**Flood Control District of Maricopa County ALERT System**  
**Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 1997**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.16
2												
3							.51					
4							.24					
5											.71	.59
6												
7												
8											.63	
9											.12	
10												
11												.24
12				.04								
13				.67								
14	.08											
15												
16												
17											.04	
18												
19												
20												
21												
22		.04										
23												
24												
25												1.34
26				.12								2.36
27				.08	.71							
28					.31							
29												
30												
31												
SUM	0.08	0.04	0.00	0.91	1.02	0.00	0.75	0.00	0.00	0.00	1.50	4.69
ACC	0.08	0.12	0.12	1.02	2.05	2.05	2.80	2.80	2.80	2.80	4.29	8.98
MAX	0.08	0.04	0.00	0.67	0.71	0.00	0.51	0.00	0.00	0.00	0.71	2.36
NO.	1	1	0	4	2	0	2	0	0	0	4	5
											Maximum Daily Rainfall	2.36
											Maximum Monthly Rainfall	4.69
											Total Annual Rainfall	8.98
											Number of Days with Rain	19

**Notes:**

Annual rainfall in millimeters: 228 Total down-time: 2.5 days  
 Gage down from 6/20/97 22:08 (71) through 6/23/97 10:06 (71) for unknown reason; no rain fell.

**Flood Control District of Maricopa County ALERT System**  
 Daily Rainfall at Casandro Dam (gage # 7130) for Water Year 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1													
2													
3													
4													
5												.51	
6													
7													
8													
9													
10												1.73	
11												.35	
12													
13												.08	
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24												.04	
25													
26													
27													
28													
29													
30													
31													
SUM	----	----	----	----	----	----	----	----	----	----	0.00	2.72	
ACC	----	----	----	----	----	----	----	----	----	----	0.00	2.72	
MAX	----	----	----	----	----	----	----	----	----	----	0.00	1.73	
NO.	----	----	----	----	----	----	----	----	----	----	0	5	
												Maximum Daily Rainfall	1.73
												Maximum Monthly Rainfall	2.72
												<b>Partial</b> Annual Rainfall	2.72
												Number of Days with Rain	5

**Notes:**  
 Partial annual rainfall in mm: 69  
 Gage installed 8/14/96.