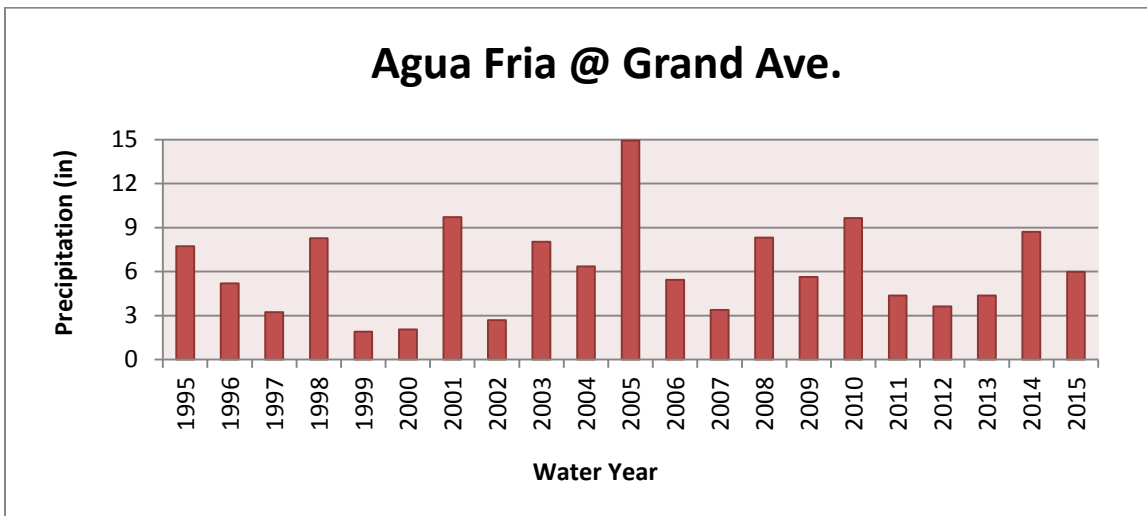




Station Name: Agua Fria River @ Grand Ave.

Station ID Number History:	5500 since installation
Station Type:	Rain / Stream
Data Begins:	04/27/1994
Years Since Installation:	21.43 (as of 10/01/15)
Data Repeater:	White Tank Peak
County:	Maricopa
Latitude:	33 36' 26.6" (33.60739)
Longitude:	112 18' 20.6" (112.30571)
Elevation:	1,115 ft. msl
Location:	Grand Ave. bridge at Agua Fria River
Data Record:	
Incomplete Months:	None
Missing Months:	None
Remarks:	Records Good



Data Statistics for Period of Record:

Number of storms greater than 1 inch in 24 hours:	26	
Number of storms greater than 2 inches in 24 hours:	4	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. Tr
Greatest 15 minute total:	0.94" on 09/08/14	25 years
Greatest 1 hour total:	1.34" on 08/02/05	12 years
Greatest 3 hour total:	1.69" on 09/08/14	19 years
Greatest 6 hour total:	2.13" on 09/08/14	40 years
Greatest 24 hour total:	2.60" on 01/21/10	20 years
Greatest 72 hour total:	4.13" on 01/21/10	86 years

Water Year Totals: (Mean of Complete Water Years [21] = 6.17 inches)

Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	9.65	2000	2.05
2019		2009	5.63	1999	1.89
2018		2008	8.31	1998	8.27
2017		2007	3.39	1997	3.27
2016		2006	5.43	1996	5.20
2015	5.98	2005	14.92	1995	7.72
2014	8.70	2004	6.34	1994	M
2013	4.37	2003	8.03	1993	
2012	3.62	2002	2.68	1992	
2011	4.37	2001	9.72	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 Agua Fria R. @ Grand Ave. (gage # 5500) for Water Year 2012

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1			.08									
2												
3												
4	.04									.59		
5		.24										
6												
7		.12										
8												
9												
10												
11										.08		
12			.20							.04		
13		.08	.35							.04		
14			.08									
15												
16												
17			.04								.08	
18			.08			.43					.08	
19												
20												
21											.51	
22											.08	
23											.35	
24												
25												
26							.04					
27												
28												
29												
30					----							
31		----			----		----		----			----
SUM	0.04	0.43	0.83	0.00	0.00	0.43	0.04	0.00	0.00	0.75	1.10	0.00
ACC	0.04	0.47	1.30	1.30	1.30	1.73	1.77	1.77	1.77	2.52	3.62	3.62
MAX	0.04	0.24	0.35	0.00	0.00	0.43	0.04	0.00	0.00	0.59	0.51	0.00
NO.	1	3	6	0	0	1	1	0	0	4	5	0
											Maximum Daily Rainfall	0.59
											Maximum Monthly Rainfall	1.10
											Total Annual Rainfall	3.62
											Number of Days with Rain	21

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Agua Fria R. @ Grand Ave. (gage # 5500) for Water Year 2011

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4	.24											
5	.08											
6												
7												
8												
9							.12					.20
10												
11												
12												
13												.12
14												.04
15												
16			.04									
17			.04									
18										.35		
19					.31							
20					.28							
21	.12		.08			.24						
22			.55									
23			.04									
24										.08		
25										.08		
26					.12							
27					.16							
28												
29			.63		----							----
30			.31		----					.16		
31		----			----		----		----			----
SUM	0.43	0.00	1.69	0.00	0.87	0.24	0.12	0.00	0.00	0.67	0.00	0.35
ACC	0.43	0.43	2.13	2.13	2.99	3.23	3.35	3.35	3.35	4.02	4.02	4.37
MAX	0.24	0.00	0.63	0.00	0.31	0.24	0.12	0.00	0.00	0.35	0.00	0.20
NO.	3	0	7	0	4	1	1	0	0	4	0	3
							Maximum Daily Rainfall					0.63
							Maximum Monthly Rainfall					1.69
							Total Annual Rainfall					4.37
							Number of Days with Rain					23

Annual Total (mm): 111 Days Down: 2.25
Gage 5500 down from 09/28 13:08 (111) through 09/30 19:08 (111) due to data collision; no rain fell.

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Agua Fria R. @ Grand Ave. (gage # 5500) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												.04
2												
3										.04		
4				.24								
5												.28
6												
7					.16							
8					.28							
9					.47							
10												
11							.39					
12											.31	
13											.31	
14											.16	
15												
16			.79									
17			.20									
18			.08									
19												
20										.20		
21								.04		.04	.43	
22			.12	.04				.24				
23												
24												
25			.24									
26		.08	.08									
27		.20										
28												
29												
30												
31											.20	
SUM	0.00	0.28	1.50	0.28	0.91	0.00	0.39	0.28	0.00	0.28	1.42	0.31
ACC	0.00	0.28	1.77	2.05	2.95	2.95	3.35	3.62	3.62	3.90	5.31	5.63
MAX	0.00	0.20	0.79	0.24	0.47	0.00	0.39	0.24	0.00	0.20	0.43	0.28
NO.	0	2	6	2	3	0	1	2	0	3	5	2
							Maximum Daily Rainfall					0.79
							Maximum Monthly Rainfall					1.50
							Total Annual Rainfall					5.63
							Number of Days with Rain					26

Notes:

Annual rainfall in millimeters: 143

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Agua Fria R. @ Grand Ave. (gage # 5500) for Water Year 2008

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1			.31									
2												
3											.16	
4					.04							
5					.04							
6												
7			.12	.39							.91	
8			.20								.08	
9												
10			.04							.71		
11										.04		
12												
13										.04		
14										.12		
15					.04							
16												
17												
18												
19												
20					.04					.79		
21												
22					.04							
23								.08				
24				.20				.04				
25				.04							.12	
26											.12	
27				1.42								
28				.12								
29											.04	
30		1.93			----						.12	
31		----			----		----		----			----
SUM	0.00	1.93	0.67	2.17	0.20	0.00	0.00	0.12	0.00	1.69	1.54	0.00
ACC	0.00	1.93	2.60	4.76	4.96	4.96	4.96	5.08	5.08	6.77	8.31	8.31
MAX	0.00	1.93	0.31	1.42	0.04	0.00	0.00	0.08	0.00	0.79	0.91	0.00
NO.	0	1	4	5	5	0	0	2	0	5	7	0
	Maximum Daily Rainfall											1.93
	Maximum Monthly Rainfall											2.17
	Total Annual Rainfall											8.31
	Number of Days with Rain											29

Notes:

Annual rainfall in millimeters: 211

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Agua Fria @ Grand Ave. (gage # 5500) for Water Year 2005

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2											1.46	
3				.59							.28	
4			.16	.63								
5			.28			.83						
6			.35		.08							
7		.63										
8		.24									.20	
9											.04	
10					.12							
11				.04	1.10							
12		.08			.43							
13												
14												
15								-----				
16												
17					.24					.20		
18					.20							
19					.63							
20					.28							
21	.24	.24			.16							
22		.51			.20					.12		
23					.63		.28					
24				.08	.28							
25												
26				.51						.16		
27				.12								
28	.63		.16									
29			.39	.28	-----							
30					-----					.87		
31		-----			-----		-----		-----	.04		-----
SUM	0.87	1.69	1.34	2.24	4.33	0.83	0.28	0.00	0.00	1.38	1.97	0.00
ACC	0.87	2.56	3.90	6.14	10.47	11.30	11.57	11.57	11.57	12.95	14.92	14.92
MAX	0.63	0.63	0.39	0.63	1.10	0.83	0.28	0.00	0.00	0.87	1.46	0.00
NO.	2	5	5	7	12	1	1	0	0	5	4	0
											Maximum Daily Rainfall	1.46
											Maximum Monthly Rainfall	4.33
											Total Annual Rainfall	14.92
											Number of Days with Rain	42

Notes:

Annual rainfall in millimeters: 379
 Total down-time: 2.25 days
 Gage 5500 down from 5/14 04:59 (294) through 5/16 10:59 (294) due to repeater failure; no rain fell.

Flood Control District of Maricopa County ALERT System

Daily Rainfall at Agua Fria @ Grand Ave. (gage # 5500) for Water Year 2002

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1														
2														
3														
4			.51											
5		.08												
6												.43		
7												.98		
8														
9														
10														
11			.12											
12														
13														
14														
15										.04				
16														
17										.04				
18														
19														
20														
21														
22														
23										.24				
24														
25														
26														
27														
28						.16								
29						-----								
30				.08	-----									
31		-----			-----		-----		-----			-----		
SUM	0.00	0.08	0.63	0.08	0.00	0.16	0.00	0.00	0.00	0.31	0.00	1.42		
ACC	0.00	0.08	0.71	0.79	0.79	0.94	0.94	0.94	0.94	1.26	1.26	2.68		
MAX	0.00	0.08	0.51	0.08	0.00	0.16	0.00	0.00	0.00	0.24	0.00	0.98		
NO.	0	1	2	1	0	1	0	0	0	3	0	2		
													Maximum Daily Rainfall	0.98
													Maximum Monthly Rainfall	1.42
													Total Annual Rainfall	2.68
													Number of Days with Rain	10

Notes:

Total annual rainfall in millimeters: 68

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Agua Fria R. @ Grand Ave. (gage # 5500) for Water Year 2001

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3										.12		
4	.04											
5							.16					
6		.08					.16			.16		
7						.71						
8				.28		.04						
9				.08							.04	
10	.12					.04	.04				.08	
11											.12	
12				.67								
13				.04	.20							
14					.12						.43	
15				.08								
16				.04								
17												
18												
19								.04				
20												
21	.43						.24					
22	.91											
23	.24											
24	.12											
25					.12							
26					.04				----			
27	1.57			.75	.16				----			
28					.43							
29					----					.31		
30	.47				----					.08		
31		----			----		----		----			----
SUM	3.90	0.08	0.00	1.93	1.06	0.79	0.59	0.04	0.00	0.67	0.67	0.00
ACC	3.90	3.98	3.98	5.91	6.97	7.76	8.35	8.39	8.39	9.06	9.72	9.72
MAX	1.57	0.08	0.00	0.75	0.43	0.71	0.24	0.04	0.00	0.31	0.43	0.00
NO.	8	1	0	7	6	3	4	1	0	4	4	0
							Maximum Daily Rainfall					1.57
							Maximum Monthly Rainfall					3.90
							Total Annual Rainfall					9.72
							Number of Days with Rain					38

Notes:

Annual rainfall in millimeters: 247
Total down-time: 2.94 days
Gage 5500 down from 6/25 13:22 (213) through 6/28 11:49 (213) due to battery failure; no rain fell.

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Agua Fria @ Grand Ave. (gage # 5500) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4												
5						.59						
6						.94						
7						.24						
8											.04	
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21					.08							
22					.04						.04	
23												
24												
25												
26												
27												
28									.04			
29												
30					----							
31		----			----	.04	----		----			----
SUM	0.00	0.00	0.00	0.00	0.12	1.81	0.00	0.00	0.04	0.00	0.08	0.00
ACC	0.00	0.00	0.00	0.00	0.12	1.93	1.93	1.93	1.97	1.97	2.05	2.05
MAX	0.00	0.00	0.00	0.00	0.08	0.94	0.00	0.00	0.04	0.00	0.04	0.00
NO.	0	0	0	0	2	4	0	0	1	0	2	0
	Maximum Daily Rainfall										0.94	
	Maximum Monthly Rainfall										1.81	
	Total Annual Rainfall										2.05	
	Number of Days with Rain										9	

Notes:

Annual rainfall in millimeters: 52

Total down-time: 0 days

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Agua Fria @ Grand Ave. (gage # 5500) for Water Year 1999

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.04					
2			.08				.16		.04			
3			.04									
4					.12		.04					
5					.08							
6			.08							.08		
7										.08		
8												
9												
10										.04		
11												.04
12												.04
13							.08					
14										.04		.04
15			.08							.12		
16						.08						
17						.04						
18												
19											.04	.08
20												
21	.04											
22												
23												.04
24												
25	.04											
26												
27										.04		
28		.08										
29					----							
30	.08				----						.04	
31		----			----		----		----			----
SUM	0.16	0.08	0.28	0.00	0.20	0.12	0.31	0.00	0.04	0.39	0.08	0.24
ACC	0.16	0.24	0.51	0.51	0.71	0.83	1.14	1.14	1.18	1.57	1.65	1.89
MAX	0.08	0.08	0.08	0.00	0.12	0.08	0.16	0.00	0.04	0.12	0.04	0.08
NO.	3	1	4	0	2	2	4	0	1	6	2	5
	Maximum Daily Rainfall											0.16
	Maximum Monthly Rainfall											0.39
	Total Annual Rainfall											1.89
	Number of Days with Rain											30

Notes:

Annual rainfall in millimeters: 48

Total down-time: 0 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Agua Fria @ Grand Ave (gage # 5500) for Water Year 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1		.04			.47									
2												.24		
3														
4														
5														
6														
7										.08				
8														
9										.08				
10														
11												.67		
12														
13						.12								
14			.04			.67				.83	.20			
15										.20				
16										.04				
17														
18														
19														
20														
21														
22														
23														
24														
25					.43					.43				
26										.04				
27														
28														
29											.43			
30														
31				.20										
SUM	0.00	0.04	0.04	0.20	0.91	0.79	0.00	0.00	0.00	1.69	0.63	0.91		
ACC	0.00	0.04	0.08	0.28	1.18	1.97	1.97	1.97	1.97	3.66	4.29	5.20		
MAX	0.00	0.04	0.04	0.20	0.47	0.67	0.00	0.00	0.00	0.83	0.43	0.67		
NO.	0	1	1	1	2	2	0	0	0	7	2	2		
												Maximum Daily Rainfall	0.83	
													Maximum Monthly Rainfall	1.69
													Total Annual Rainfall	5.20
													Number of Days with Rain	18

Notes:
Annual Rainfall in mm: 132
Gage down from 9/06 11:35 (115) through 9/09 11:36 (115) for unknown reason, no rain fell.
Gage down from 9/16 11:35 (132) through 9/21 11:36 (132) for unknown reason, no rain fell.

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Agua Fria @ Grand (gage # 5500) for Water Year 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1													
2												0.04	
3													
4												0.12	
5													
6													
7													
8											0.20		
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20												0.12	
21												0.31	
22													
23													
24								0.39					
25													
26													
27													
28										0.04			
29													
30													
31													
SUM							0.00	0.39	0.00	0.04	0.20	0.59	
ACC							0.00	0.39	0.39	0.43	0.63	1.22	
MAX							0.00	0.39	0.00	0.04	0.20	0.31	
NO.							0	1	0	1	1	4	
												Maximum Daily Rainfall	0.39
												Maximum Monthly Rainfall	0.59
												Partial Annual Rainfall	1.22
												Number of Days with Rain	7

Notes:
 Partial annual rainfall in mm: 31
 Gage installed 4/27/94.