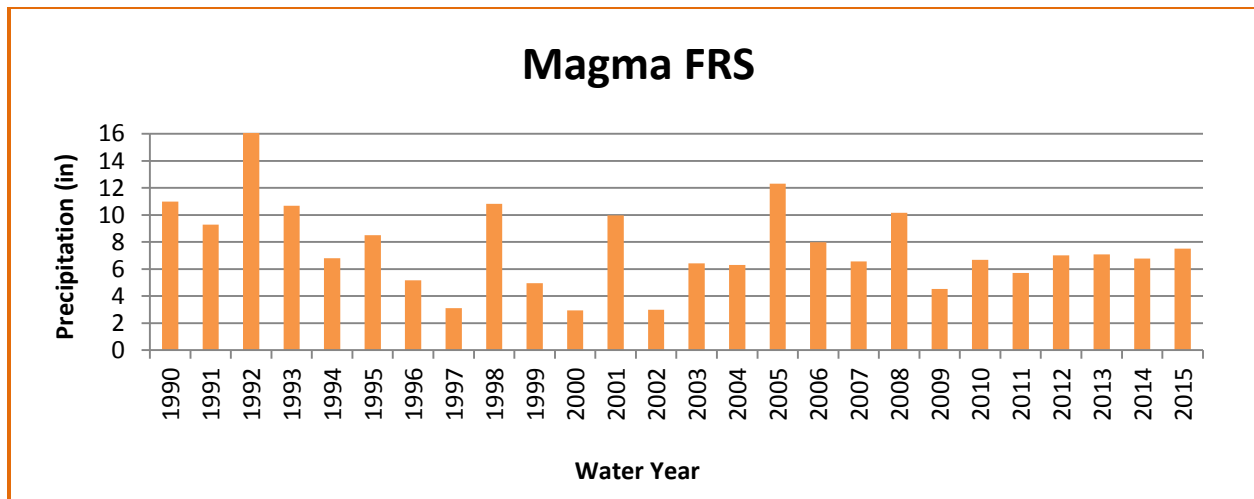




Station Name: Magma FRS

Station ID Number History:	6715 since 06/16/92 5800 from 10/27/88 – 06/16/92
Station Type:	Weather/Stage
Data Begins:	10/27/1988
Years Since Installation:	26.93 (as of 10/01/15)
Data Repeater:	Thompson Peak
County:	Pinal
Latitude:	33° 07' 06.5" (33.11848)
Longitude:	111° 24' 16.6" (111.40461)
Elevation:	1,605 ft. msl
Location:	7 miles NNW of Florence
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:	28	
Number of storms greater than 2 inches in 24 hours:	7	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. T_r
Greatest 15 minute total:	0.98" on 07/15/90	23 years
Greatest 1 hour total:	2.13" on 07/15/90	95 years
Greatest 3 hour total:	2.80" on 07/10/08	214 years
Greatest 6 hour total:	2.87" on 07/10/08	135 years
Greatest 24 hour total:	2.99" on 07/10/08	24 years
Greatest 72 hour total:	3.23" on 01/21/10	14 years

Water Year Totals: (Mean of Complete Water Years [26] = 7.59 inches)

Water Year	Total	Water Year	Total	Water Year	Total	Water Year	Total
2020		2010	6.69	2000	2.95	1990	10.98
2019		2009	4.53	1999	4.96	1989	M
2018		2008	10.16	1998	10.83	1988	
2017		2007	6.57	1997	3.11	1987	
2016		2006	7.99	1996	5.16	1986	
2015	7.52	2005	12.32	1995	8.50	1985	
2014	6.77	2004	6.30	1994	6.81	1984	
2013	7.09	2003	6.42	1993	10.67	1983	
2012	7.01	2002	2.99	1992	16.14	1982	
2011	5.71	2001	9.96	1991	9.29	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 Magma FRS (gage # 6715) for Water Year 2009

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2										.08		
3										.08		
4				.08								
5				.08								.87
6												
7												
8			.08		.67							
9		.24			.31							
10												
11	.20						.39					
12												
13												
14												
15												
16			.08									
17			.08		.12							
18			.04							.04		
19												
20										.16		
21										.16		
22								.16				
23			.08	.04								
24												
25			.12									
26		.16	.08									
27		.08										
28												
29					----							
30					----							
31		----			----		----		----			----
SUM	0.20	0.47	0.55	0.20	1.10	0.00	0.39	0.16	0.00	0.51	0.00	0.87
ACC	0.20	0.67	1.22	1.50	2.60	2.60	2.99	3.15	3.15	3.66	3.66	4.53
MAX	0.20	0.24	0.12	0.08	0.67	0.00	0.39	0.16	0.00	0.16	0.00	0.87
NO.	1	3	7	3	3	0	1	1	0	5	0	1
	Maximum Daily Rainfall											0.87
	Maximum Monthly Rainfall											1.10
	Total Annual Rainfall											4.53
	Number of Days with Rain											25

Notes:

Annual rainfall in millimeters: 115

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 2008

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1			.04									
2												
3												
4					.67							
5												
6				.16								
7			.51	.47								
8			.47									
9												
10			.35							1.30		.04
11			.08							1.69		
12												
13												
14											.28	
15					.31							
16											.31	
17												
18												
19												
20												
21												
22								.63				
23								.08				
24												
25											.08	
26											.12	
27				.83							.28	
28				.04							.20	
29												
30		.87									.28	
31		----			----		----		----		.08	----
SUM	0.00	0.87	1.46	1.50	0.98	0.00	0.00	0.71	0.00	2.99	1.61	0.04
ACC	0.00	0.87	2.32	3.82	4.80	4.80	4.80	5.51	5.51	8.50	10.12	10.16
MAX	0.00	0.87	0.51	0.83	0.67	0.00	0.00	0.63	0.00	1.69	0.31	0.04
NO.	0	1	5	4	2	0	0	2	0	2	8	1
	Maximum Daily Rainfall											1.69
	Maximum Monthly Rainfall											2.99
	Total Annual Rainfall											10.16
	Number of Days with Rain											25

Notes:

Annual rainfall in millimeters: 258

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) 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	.20											
9												
10												
11												
12							.12					
13					.12							
14											.12	
15												
16												.08
17												
18												
19				.20	.04					.08		
20				.04	.12							
21				.12		.04	.04			2.09		
22			.16	.04		.51				.04		
23						.71				.04		
24	.24					.08						
25										.51	.12	
26												
27												
28			.04							.04		
29												
30				.04								
31				.08						.31		
SUM	0.63	0.00	0.20	0.51	0.28	1.34	0.16	0.00	0.00	3.11	0.28	0.08
ACC	0.63	0.63	0.83	1.34	1.61	2.95	3.11	3.11	3.11	6.22	6.50	6.57
MAX	0.24	0.00	0.16	0.20	0.12	0.71	0.12	0.00	0.00	2.09	0.12	0.08
NO.	3	0	2	6	3	4	2	0	0	7	3	1
											Maximum Daily Rainfall	2.09
											Maximum Monthly Rainfall	3.11
											Total Annual Rainfall	6.57
											Number of Days with Rain	31

Notes:

Annual rainfall in millimeters: 167

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 2006

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												.51
3												.20
4										.08		
5										.47		
6												
7												.43
8												.16
9												
10						.16						
11						2.09						
12						.08						
13												
14											.08	
15												
16												
17	.04											
18	.12											
19						.12						
20												
21						.04					.04	
22												
23												
24											.83	
25									.24			
26												
27										1.02		
28										.08		
29					----	.20						
30					----					.94		
31		----			----		----		----	.04		----
SUM	0.16	0.00	0.00	0.00	0.00	2.68	0.00	0.00	0.24	2.64	0.94	1.30
ACC	0.16	0.16	0.16	0.16	0.16	2.87	2.87	2.87	3.11	5.75	6.69	7.99
MAX	0.12	0.00	0.00	0.00	0.00	2.09	0.00	0.00	0.24	1.02	0.83	0.51
NO.	2	0	0	0	0	6	0	0	1	6	3	4

Maximum Daily Rainfall 2.09
Maximum Monthly Rainfall 2.72
Total Annual Rainfall 7.99
Number of Days with Rain 22

Notes:

Annual rainfall in millimeters: 203

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System

Daily Rainfall at Magma FRS (gage # 6715) for Water Year 2005

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2				.08							.20	
3				1.38	-----						.04	
4			.47	.83	-----							
5			.12		-----	.20						
6			.12		-----	.35						
7												
8											.04	
9											1.93	
10					.04							
11					1.10							
12					1.22						.28	
13												
14												
15												
16												
17					.04							
18					.24							
19					.39							
20												
21	.20				.04							
22	.04	.24			.24					.24		
23		-----					.16			.04		
24		-----		.04	.08		.04					
25		-----								.35		
26		-----		.43								
27		-----		.12						.08		
28	.31	-----										
29			.59		-----							
30					-----							
31		-----			-----		-----		-----			-----
SUM	0.55	0.24	1.30	2.87	3.39	0.55	0.20	0.00	0.00	0.71	2.48	0.00
ACC	0.55	0.79	2.09	4.96	8.39	8.94	9.13	9.13	9.13	9.84	12.32	12.32
MAX	0.31	0.24	0.59	1.38	1.22	0.35	0.16	0.00	0.00	0.35	1.93	0.00
NO.	3	1	4	6	9	2	2	0	0	4	5	0
	Maximum Daily Rainfall											1.93
	Maximum Monthly Rainfall											3.43
	Total Annual Rainfall											12.32
	Number of Days with Rain											36

Notes:

Annual rainfall in millimeters: 313 Total down-time: 11.28 days
 Gage 6715 down from 11/22 21:29 (20) through 11/29 10:07 (20) due to tipping bucket runaway; no rain fell.
 Gage 6715 down from 2/02 15:32 (126) through 2/07 09:32 (126) due to transmitter failure; no rain fell.

**Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 2001**

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2												
3												
4		.04								.04	.08	
5							.16					
6		.20					.47					
7						.55						
8				.24	.24							
9	.04			.47							.35	
10	.31					.16	.12				.12	
11	.04	.04										
12				.39								
13												
14					.16							.24
15					.04							
16				.16							.04	
17				.04							.04	
18												
19	.39											
20												
21	.35						.63					
22	.08											
23												
24	.04											
25					.04				.04			
26												
27	.55			.59	.20							
28	.12				.16							
29	.04				----					1.22		
30	.24				----					.43	.04	
31	.04	----			----		----		----			----
SUM	2.24	0.28	0.00	1.89	0.83	0.71	1.38	0.00	0.04	1.69	0.67	0.24
ACC	2.24	2.52	2.52	4.41	5.24	5.94	7.32	7.32	7.36	9.06	9.72	9.96
MAX	0.55	0.20	0.00	0.59	0.24	0.55	0.63	0.00	0.04	1.22	0.35	0.24
NO.	12	3	0	6	6	2	4	0	1	3	6	1
							Maximum Daily Rainfall					1.22
							Maximum Monthly Rainfall					2.24
							Total Annual Rainfall					9.96
							Number of Days with Rain					44

Notes:

Annual rainfall in millimeters: 253

Total down-time: 0.00 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 2000

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1												
2				.04								
3												
4												
5						.12						
6						1.34						
7						.28						
8												
9												
10												
11											.16	
12											.04	
13												
14												
15												
16												
17											.04	
18									.24			
19												
20												
21					.16							
22					.04							
23											.04	
24											.16	
25												
26												
27												
28												
29									.04		.04	
30					----					.24		
31		----			----		----		----			----
SUM	0.00	0.00	0.00	0.04	0.20	1.73	0.00	0.00	0.28	0.24	0.47	0.00
ACC	0.00	0.00	0.00	0.04	0.24	1.97	1.97	1.97	2.24	2.48	2.95	2.95
MAX	0.00	0.00	0.00	0.04	0.16	1.34	0.00	0.00	0.24	0.24	0.16	0.00
NO.	0	0	0	1	2	3	0	0	2	1	6	0
							Maximum Daily Rainfall				1.34	
							Maximum Monthly Rainfall				1.73	
							Total Annual Rainfall				2.95	
							Number of Days with Rain				15	

Notes:

Annual rainfall in millimeters: 75

Total down-time: 0 days

Flood Control District of Maricopa County ALERT System

Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1998

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.47				.08					
2			.04									
3												
4					.43							.55
5										.16		.04
6												.04
7			.28									.04
8			.12		.43							
9					.87							.12
10				.12								
11		.55										
12		.04										
13											.12	
14		.04				.20					.08	
15					.51							
16										.31		
17					.35	.08				.16		
18					.24							
19												
20					.43						.16	
21	.24		.04								.08	
22	.04		.43									
23												
24					.47							
25					.04							
26						.91						
27												
28						.28				.04	.98	
29					----	.12						
30					----	.08						
31		----			----		----		----			----
SUM	0.28	0.63	1.38	0.12	3.78	1.65	0.08	0.00	0.00	0.67	1.42	0.79
ACC	0.28	0.91	2.28	2.44	6.22	7.87	7.95	7.95	7.95	8.62	10.04	10.83
MAX	0.24	0.55	0.47	0.12	0.87	0.91	0.08	0.00	0.00	0.31	0.98	0.55
NO.	2	3	6	1	9	6	1	0	0	4	5	5
							Maximum Daily Rainfall					0.98
							Maximum Monthly Rainfall					3.78
							Total Annual Rainfall					10.83
							Number of Days with Rain					42

Notes:

Annual rainfall in millimeters: 275

Total down-time: 0 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1997

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											.20	
2												
3							.35				.24	
4												
5												.04
6				.16								.04
7												
8											.12	
9												
10												
11												
12												
13				.08								
14				.12							.08	
15												
16												
17											.12	
18												
19												
20								.24				
21												
22		.55										
23											.20	
24												
25												
26				.08								
27					.04							
28					.28							
29		.16										
30												.04
31												
SUM	0.00	0.71	0.00	0.43	0.31	0.00	0.35	0.24	0.00	0.00	0.94	0.12
ACC	0.00	0.71	0.71	1.14	1.46	1.46	1.81	2.05	2.05	2.05	2.99	3.11
MAX	0.00	0.55	0.00	0.16	0.28	0.00	0.35	0.24	0.00	0.00	0.24	0.04
NO.	0	2	0	4	2	0	1	1	0	0	6	3
							Maximum Daily Rainfall					0.55
							Maximum Monthly Rainfall					0.94
							Total Annual Rainfall					3.11
							Number of Days with Rain					19

Notes:

Annual rainfall in millimeters: 79

Total down-time: 0 days

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1996

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		.08			.63							
2		.24			.04							.31
3												
4												
5		.24										.04
6		.04										
7												
8											.79	
9										.63		
10												.04
11												.35
12												
13					.12	.04				.35		.12
14						.12				.31		
15										.04		
16												
17												
18												
19												
20												
21												
22												
23												
24												.08
25										.20		
26					.20							
27												
28												
29											.04	
30												
31				.08								
SUM	0.00	0.59	0.00	0.08	0.98	0.16	0.00	0.00	0.00	1.54	0.83	0.94
ACC	0.00	0.59	0.59	0.67	1.65	1.81	1.81	1.81	1.81	3.35	4.17	5.16
MAX	0.00	0.24	0.00	0.08	0.63	0.12	0.00	0.00	0.00	0.63	0.79	0.35
NO.	0	4	0	1	4	2	0	0	0	5	2	6
	Maximum Daily Rainfall											0.79
	Maximum Monthly Rainfall											1.54
	Total Annual Rainfall											5.16
	Number of Days with Rain											24

Notes:

Annual Rainfall in mm: 131
 Gage down from 12/15 07:31 (15) through 12/19 10:30 (15) for unknown reason; no rain fell.
 Gage down from 5/27 19:55 (46) through 6/03 12:25 (46) due to failed solar panel; no rain fell.
 Gage down from 6/07 22:39 (46) through 6/11 22:39 (46) due to repeater failure; no rain fell.
 Gage down from 9/17 22:17 (129) through 9/22 10:17 (129) for unknown reason, no rain fell.

Flood Control District of Maricopa County ALERT System

Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1995

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4			0.04	0.87								
5			0.55	0.79		0.04						
6			0.24			0.04						0.12
7								0.08				0.04
8												
9												
10												
11											0.16	
12		1.14								0.16		
13					0.08					0.08		
14						0.08				0.04	0.08	
15	0.75				0.08							
16	0.24											
17				0.12			0.04					
18												
19							0.04				0.04	
20											0.31	
21												
22												
23			0.31									
24												
25			0.39	0.12								
26			0.31	0.08								
27												
28												0.79
29												
30			0.04									
31												
SUM	0.98	1.14	1.89	1.97	0.16	0.16	0.08	0.08	0.00	0.28	0.59	0.94
ACC	0.98	2.13	4.02	5.98	6.38	6.54	6.61	6.69	6.69	6.97	7.56	8.50
MAX	0.75	1.14	0.55	0.87	0.08	0.08	0.04	0.08	0.00	0.16	0.31	0.79
NO.	2	1	7	5	2	3	2	1	0	3	4	3
Maximum Daily Rainfall												1.14
Maximum Monthly Rainfall												1.97
Total Annual Rainfall												8.50
Number of Days with Rain												33

Notes:

Gage down from 7/26 08:14 (177) thru 7/28 20:13 (177) due to failure of Signal Peak repeater; no rain fell.
Gage down from 9/20/95 20:14 (196) through 10/04/95 09:56 (216) due to a construction project; gage was moved to the opposite side of the dam and maintained in logger mode; recorded rainfall was inserted on 9/28. Annual rainfall in mm: 216

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1													
2												0.35	
3												0.08	
4													
5													
6	0.24												
7	0.12				0.59	0.16							
8					0.47								
9					0.04							0.71	
10												0.12	
11		0.20										0.04	
12		0.12	0.08										
13		0.28										0.04	
14		0.35											
15		0.51											
16													
17					0.04								
18													
19						0.20							
20						0.35							
21													
22													
23													
24							0.12	1.14					
25				0.04									
26							0.39						
27							0.04						
28													
29													
30													
31													
SUM	0.35	1.46	0.08	0.04	1.14	0.71	0.55	1.14	0.00	0.00	0.00	1.34	
ACC	0.35	1.81	1.89	1.93	3.07	3.78	4.33	5.47	5.47	5.47	5.47	6.81	
MAX	0.24	0.51	0.08	0.04	0.59	0.35	0.39	1.14	0.00	0.00	0.00	0.71	
NO.	2	5	1	1	4	3	3	1	0	0	0	6	
												Maximum Daily Rainfall	1.14
												Maximum Monthly Rainfall	1.46
												Total Annual Rainfall	6.81
												Number of Days with Rain	26

Notes:

Annual rainfall in mm: 173

Gage down from 11/16 13:08 (46) through 11/24 21:50 (46); assume no rain fell.

Gage down from 3/25 11:24 (96) through 3/30 09:01 (96) due to electronic failure; assume no rain fell.

Gage down from 9/04 03:34 (150) through 9/07 16:57 (150) due to repeater problem; assume no rain fell.

Flood Control District of Maricopa County ALERT System Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1993

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1														
2														
3			.04	.31										
4			.91											
5			.08											
6				.39										
7				.35										
8			.94	.24	.39									
9				.08	.08									
10		.20		.12	.08							.04		
11				.20						.12				
12				.08						.04		.04		
13				.08										
14				.04	.47									
15				.04	.08			.28						
16				.04										
17				.08										
18			.12											
19			.04		.12									
20					.08						.08			
21														
22														
23	.47													
24					.04						.31			
25														
26						.39					.08			
27			.08			.31					.94			
28			1.06		.28									
29			.04		----	.24								
30					----						.16			
31		----			----		----		----			----		
SUM	0.47	0.20	3.31	2.05	1.61	0.94	0.00	0.28	0.00	0.16	1.57	0.08		
ACC	0.47	0.67	3.98	6.02	7.64	8.58	8.58	8.86	8.86	9.02	10.59	10.67		
MAX	0.47	0.20	1.06	0.39	0.47	0.39	0.00	0.28	0.00	0.12	0.94	0.04		
NO.	1	1	9	13	9	3	0	1	0	2	5	2		
													Maximum Daily Rainfall	1.06
													Maximum Monthly Rainfall	3.31
													Total Annual Rainfall	10.67
													Number of Days with Rain	46

Flood Control District of Maricopa County ALERT System
 Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1992

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1			.08				.87					
2						.16						
3				.12		.55		.20			.04	
4				.08				.28				
5				.04				.59			.08	
6				.55							.31	
7					.67	.12			.16		.08	
8						.28		.04				
9						.35						
10		.39	.35			.24		.31				
11			.63							.24		
12				.20								
13			.04		.83							
14					.04							
15												
16					.08							
17												
18			.28									
19			.20									.04
20			.12	.12				.43				
21						.04		.35			.04	
22								.04			1.50	
23								.08			.87	
24										.83	.04	
25												
26												
27	.79					.47						
28						.16						
29						.04				.24		
30		.51										
31		----			----		----		----			----
SUM	0.79	0.91	1.69	1.10	1.61	2.40	0.87	2.32	0.16	1.30	2.95	0.04
ACC	0.79	1.69	3.39	4.49	6.10	8.50	9.37	11.69	11.85	13.15	16.10	16.14
MAX	0.79	0.51	0.63	0.55	0.83	0.55	0.87	0.59	0.16	0.83	1.50	0.04
NO.	1	2	7	6	4	10	1	9	1	3	8	1
	Maximum Daily Rainfall											1.50
	Maximum Monthly Rainfall											2.95
	Total Annual Rainfall											16.14
	Number of Days with Rain											53

Flood Control District of Maricopa County ALERT System
Daily Rainfall at Magma FRS (gage # 6715) for Water Year 1990

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1					.43					.04		
2				.31								
3	.24			.04								
4	.16											
5	.28											.28
6												
7												
8					.20					.28		
9					.04							
10						.67			.08			
11											.24	
12						.04					.04	
13												
14					.08						1.97	
15										2.20	.20	
16												
17				.20								.04
18				.24								.16
19					.47							
20												
21	.20	.08										
22												
23												
24							.51			.04		
25												
26												
27												
28			.04					.08				
29			.63		-----	.04		.12				
30					-----							.04
31		-----			-----		-----		-----		.31	-----
SUM	0.87	0.08	0.67	0.79	1.22	0.75	0.51	0.20	0.08	2.56	2.76	0.51
ACC	0.87	0.94	1.61	2.40	3.62	4.37	4.88	5.08	5.16	7.72	10.47	10.98
MAX	0.28	0.08	0.63	0.31	0.47	0.67	0.51	0.12	0.08	2.20	1.97	0.28
NO.	4	1	2	4	5	3	1	2	1	4	5	4
											Maximum Daily Rainfall	2.20
											Maximum Monthly Rainfall	2.76
											Total Annual Rainfall	10.98
											Number of Days with Rain	36

