

FLOOD CONTROL
DISTRICT OF
MARICOPA COUNTY

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ANNUAL HYDROLOGIC
DATA REPORT

VOLUME II
SURFACE WATER DATA

WATER YEAR 1997

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**ANNUAL HYDROLOGIC
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SURFACE WATER DATA**

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PREFACE

This publication is Volume II of a five volume report containing hydrologic data collected by the Flood Control District Of Maricopa County during Water Year 1997. The four other volumes are: Volume I – Precipitation Data, Volume III – Volunteer Observer Rainfall Data, Volume IV – Stormwater Quality Data, and Volume V – Weather Station Data and Alluvial Fan Watershed Data. Volume II presents the surface water data collected by the Flood Control District of Maricopa County's automated water level gage network. This telemetered network is located primarily throughout Maricopa County, Arizona with additional gages in Yavapai, Pinal, and La Paz Counties.

The surface water data contained in this report was collected, compiled and edited by the Flood Warning and Data Collection Branch of the Engineering Division. Data includes mean daily, total, maximum, and minimum discharges at the flow sites; mean daily, maximum, and minimum pool levels at the storage locations; and mean daily, maximum, and minimum volumes stored at the storage locations. Also included starting in this year's report are maximum discharges, pool levels, and storage volumes for flood events of interest at each site. Additionally, a few hydrographs from significant floods are also presented. Furthermore, flood flow frequency tables have been added at sites where information is available either from statistical analysis of gage records or from rainfall-runoff models. These estimates of flood flow frequency do not necessarily correspond to regulatory discharges for the channel reaches near the gage sites. Always refer to official regulatory documents such as the *Flood Insurance Study, Maricopa County and Incorporated Areas* published by the Federal Emergency Management Agency (FEMA) for such discharge information.

The information contained herein is as accurate and complete as possible within the limitations of real-time data collection technology currently available. Wherever possible, footnotes have been included to identify questionable data. Reliance upon the accuracy, reliability, and authority of this information is solely the responsibility of the user.

Revisions to any of these data for any reason will be published in the following years' reports immediately following the data for the current year for the site where the revisions have been made.

Additional copies of this report may be purchased from:

Flood Control District of Maricopa County
2801 W. Durango Street
Phoenix, Arizona 85009
(602) 506-1501

or downloaded from the World Wide Web at <http://www.fcd.maricopa.gov/alert/alert.htm>.

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INTRODUCTION

The Flood Control District of Maricopa County in cooperation with local, state, and federal agencies collects a large amount of data pertaining to surface water runoff in and around Maricopa County. These data provide a valuable resource for information not otherwise furnished by the traditional sources of this type of material. To make these data readily available to interested parties outside the Flood Control District, the data are published annually in this report entitled "FCDMC ALERT System Annual Surface Water Report."

This report includes records on discharge at uncontrolled stream gages and at flood control storage structures, on depths at flood control storage structures, and on contents at flood control storage structures. Specifically it contains: (1) Discharge records at 43 stream gages and 33 flood control storage structures; (2) Depths of stored water at 35 flood control storage structures; and (3) Contents at 34 flood control storage structures where stage-storage relationships are available. Records included are only a small fraction of those obtained for each site during this water year.

A number of streamflow gages collected by the FCDMC ALERT System are run cooperatively with the United States Geological Survey (USGS). Although real-time data for these sites are collected at the FCDMC for the purposes of flood event monitoring, quality control for the data at these gages lies with the USGS. The official records for these sites are published in the USGS Surface Water Data Reports each water year. The cooperative gages collected jointly for Water Year 1997 were:

<u>USGS Gage Name</u>	<u>FCDMC ID</u>	<u>USGS ID</u>
Gila River near Sacaton, AZ	0783	09478350
Gila River near Maricopa, AZ	0778	09479350
Salt River at Priest Drive	4523	09512165
Cave Cr. below Cottonwood Cr.	4923	09512280
Agua Fria River at El Mirage	5503	09513650
Skunk Creek near Phoenix, AZ	5568	09513860
New River near Glendale, AZ	5508	09513910
Gila River @ Estrella Parkway	6853	09514100
Hassayampa River nr Morristown	5223	09516500
Centennial Wash at SPRR	5103	09517490

In addition to the continuous cooperative stations, the FCDMC also cooperates with the USGS in the collection of peak discharges at a number of crest stage gage sites. The data for these crest stage gage sites are also published by the USGS in their Surface Water Data Reports each water year.

The cooperative crest stage gage sites for Water Year 1997 were:

<u>Gage Site Name</u>	<u>USGS ID</u>
Vekol Wash near Stanfield, AZ	09488650
Tortilla Creek at Tortilla Flat	09501300
Camp Creek near Sunflower	09510170
Rock Creek near Sunflower	09510180
Indian Bend Wash at Shea Blvd	09512090
Agua Fria R. Trib. No. 2	09512700
Deadman Wash near New River	09513820
Waterman Wash near Buckeye	09514200
Hartman Wash near Wickenburg	09515800
Ox Wash near Morristown	09516600
Jackrabbit Wash near Tonapah	09516800
Centennial Wash Trib. nr Wenden	09517200
Tiger Wash near Aguila	09517280
Rainbow Wash Trib. near Buckeye	09519600
Bender Wash near Gila Bend	09519750
Sauceda Wash near Gila Bend	09519760
Military Wash near Sentinel	09520100
Crater Range Wash near Ajo	09520230

This is the fourth annual surface water report published by the District. Prior to water year 1994, surface water data collected by the FCDMC ALERT System were not quality controlled, and therefore, not published. However, there are data resident in archives prior to water year 1994 that may have value to specific individuals. Data are available back to November 1987 for some streamflow sites.

The data are collected as a depth of flow in feet (or stage). The discharge and/or contents is then obtained by applying the stage to a rating curve of stage versus discharge in cubic feet per second (cfs), or stage versus contents in acre-feet (ac-ft). The discharge rating curves have been developed at stream gages by using field surveyed cross sections in a HEC-2 or HECRAS step backwater computer model to obtain a range of stage versus discharge points to be plotted on a curve. These step backwater ratings are refined whenever possible using direct measurements made at or near the gage site. The discharge rating curves at flood control storage structures were developed by application of the Federal Highway Administration's HY-8 computer model for culvert flow and U.S. Geological Survey methods for flow over the uncontrolled emergency spillways. The storage rating curves were obtained from published as-built or construction plans or developed from digital elevation data.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. The same is similarly true for storage facility contents. The minimum and maximum values are based on instantaneous readings and

the volumes for discharge stations are based on accumulations of daily means. Those gages in section 2, Pool Levels at Storage Facilities, which show a continuous gage height during obvious periods of no storage, do so because the orifice to the pressure transducer is set at that gage height above or below 0.0' gage datum.

All of the data in this report have been reviewed and edited in an attempt to provide the most accurate data possible. A blank or blanks within the data set is an indication that data was lost either due to hardware, software, or radio problems, or that the gage had not yet been installed. Where possible, these data are flagged with footnotes describing the time the gage was down. In the event that published records require revision, revisions are printed in later reports. Listed in the heading for each gage where records have been revised are all the reports in which revisions have been published for the station and the water years to which the revisions apply (e.g. WY1997: WY1994-95 means that the data for Water Years 1994-1995 were revised in the report for Water Year 1997).

Comments about this report or errors discovered may be forwarded to the Flood Warning and Data Collection Branch using the comment/errata sheet found at the back of this document. Alternately, comments or errors may be sent via Internet e-mail from the FCDMC ALERT System Home Page or directly to twl@mail.maricopa.gov.

An index of gage names, numbers, locations, and other descriptors is included following the Definition of Terms in this report.

Additional or more detailed surface water data in hard copy or computer disk format is available for the gages listed in this report. Contact the Flood Control District, Engineering Division, Flood Warning and Data Collection Branch at (602) 506-1501.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report are defined below.

Acre-foot (ac-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters.

Daily mean discharge is the average discharge in cfs for a 24 hour period from midnight to midnight the following day.

Discharge is the volume of water (or more broadly, total fluid plus suspended sediment), that passes a given point within a given period of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point.

Drainage basin is a part of the surface of the Earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water, together with all tributary surface streams and bodies of impounded surface water.

Flood Elevation Frequency refers to the magnitude (in terms of depth or elevation) and probability of floods at a given flood control impoundment structure. The flood elevation frequency is usually given as a depth or elevation of impoundment associated with a given recurrence interval at a particular flood control impoundment structure.

Flood Flow Frequency refers to the magnitude (in terms of peak discharge) and probability of floods at a given gaging station. The flood flow frequency is usually given as a peak discharge associated with a given recurrence interval at a particular gaging station.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined. This elevation is established by a system of levels from known bench marks or by approximation from topographic maps or arbitrarily established to some given point such as a culvert invert elevation.

Gage height is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Instantaneous discharge is the discharge at a particular instant of time.

Maximum Level is the highest pool level recorded or observed at a particular gaging station at a flood control impoundment structure for a given event.

Maximum Storage is the greatest volume of water stored behind or within a flood control impoundment structure for a given event. This occurs at the maximum pool level and is obtained from the stage-storage relation for that maximum level for a particular flood control impoundment structure.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

National Geodetic Vertical Datum of 1929 (NGVD 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

North American Vertical Datum of 1988 (NAVD 1988) is a datum based on the mass or density of the Earth instead of the varying values of the heights of the seas. Measurements of the acceleration of gravity are made at observation points in a network. Only one point is defined as the datum point. The vertical reference surface is then defined by the surface on which the gravity values are equal to the datum point value. This is called an equipotential surface.

Peak Discharge is the maximum instantaneous discharge for a given flood event.

Period of Record is the time period for which data exists for a given stream gaging station.

Pressure transducer is an instrument used to measure the depth of water. It is an analog instrument which measures a pressure change over a diaphragm. The depth of water is related to the change in pressure over the diaphragm created by the weight of the water over the instrument.

Recurrence interval is the reciprocal of the probability of a flood occurring in any given year. Thus, the flood having a 1% (1/100) chance of occurring in any given year has a recurrence interval of 100 years and is referred to as the 100-year flood. Similarly, the flood having a 50% (1/2) chance of occurring in any given year has a recurrence interval of 2 years and is referred to as the 2-year flood.

Staff gage is a device located at the gaging station to provide a visual reference to the depth of water at the gage in terms of gage height above the water level measuring instrument.

Stage-discharge relation is the relation between gage height (stage) and the volume of water, per unit of time, flowing in a channel.

Stage-storage relation is the relation between gage height (stage) and the volume of water stored behind or within a flood control impoundment structure.

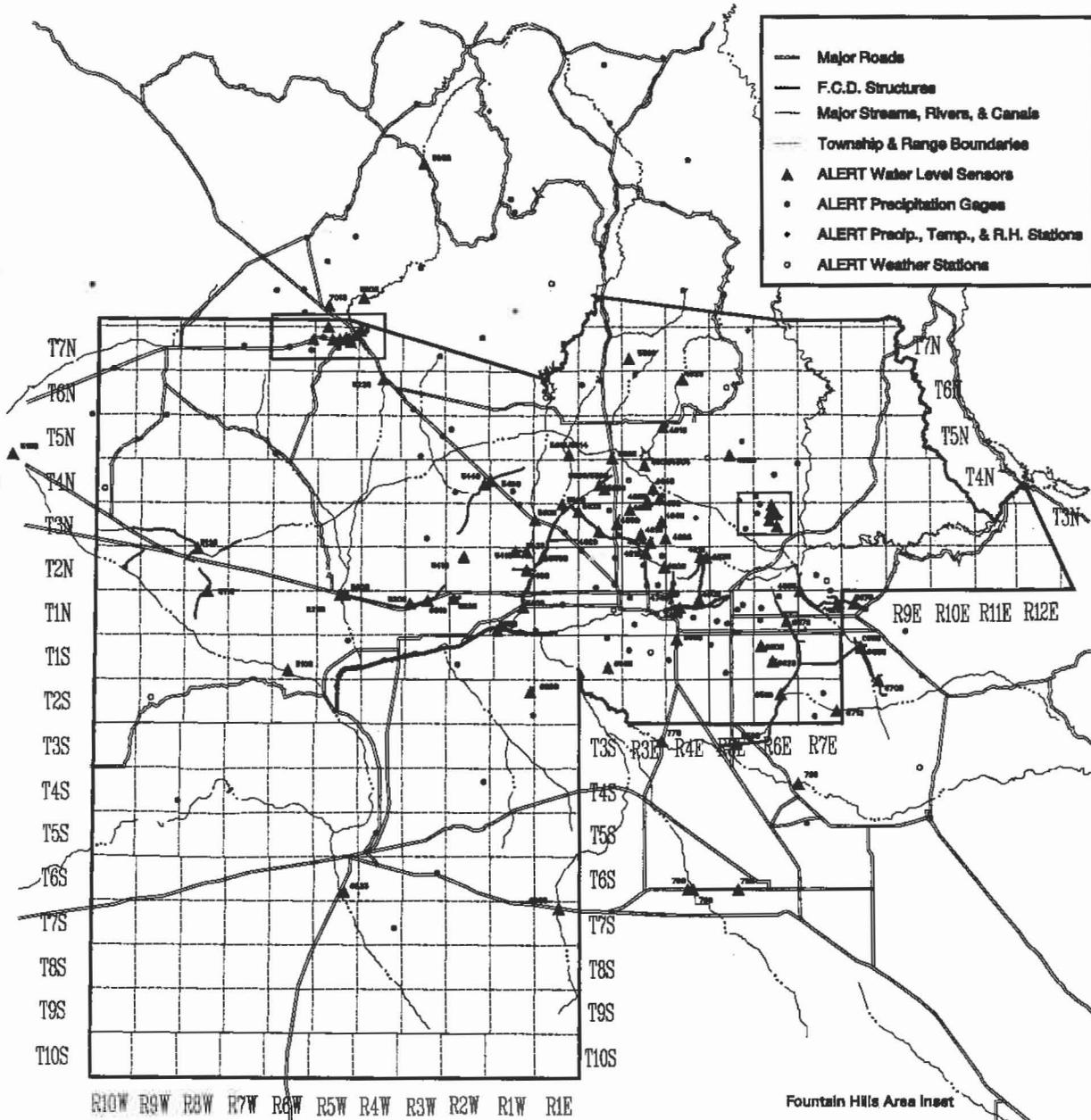
Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Water year dealing with surface-water data is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1997, is called the "1997 water year."

Maricopa County ALERT Water Level Sensor Locations

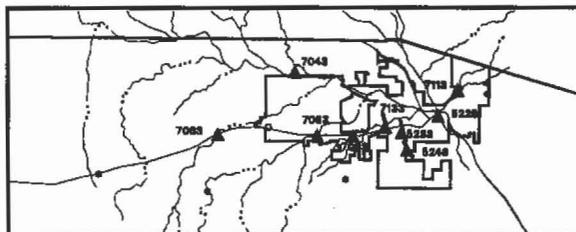
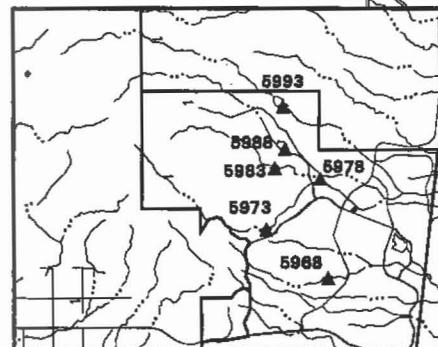
Legend

- Major Roads
- F.C.D. Structures
- Major Streams, Rivers, & Canals
- Township & Range Boundaries
- ▲ ALERT Water Level Sensors
- ALERT Precipitation Gages
- ALERT Precip., Temp., & R.H. Stations
- ALERT Weather Stations



R10W R9W R8W R7W R6W R5W R4W R3W R2W R1W R1E

Fountain Hills Area Inset



Wickenburg Area Inset

Created December 15, 1997

Flood Control District of Maricopa County

ALERT System Water Level Sensors WY 1997

Sorted by ID#

ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
778	Gila @ Maricopa Rd	Rain/Stage	Gila /Queen Ck	Signal Peak	4/9/95	3S-3E-13	33 10 16	112 00 21	1120	1:1
783	Gila R. @ Olberg	Rain/Stage	Gila /Queen Ck	Signal Peak	4/12/95	4S-6E-12	33 06 50	111 41 15	1290	1:2
788	Santa Cruz @ SR 84	Rain/Stage	Pinal	Signal Peak	3/16/94	7S-5E-21	32 52 55	111 49 45	1311	1:3
793	Greene Wash @ SR 84	Stage	Pinal	Signal Peak	3/23/94	7S-4E-21	32 52 48	111 56 03	1350	1:4
798	Santa Rosa @ SR 84	Rain/Stage	Pinal	Signal Peak	3/16/94	7S-4E-20	32 52 39	111 56 51	1305	1:5
4523	Salt R. @ Priest Dr.	Stage	C.Creek / Salt	Direct	12/7/93	1N-4E-17	33 26 00	111 57 43	1133	1:6
4563	Spookhill FRS	Rain/Stage	C.Creek / Salt	Thompson Pk	3/13/84	2N-7E-31	33 28 01	111 40 48	1595	1:7,2:1,3:1
4603	IBW @ McKellips Rd.	Rain/Stage	C.Creek / Salt	Thompson Pk	5/21/85	1N-4E-11	33 26 58	111 54 58	1187	1:8
4613	IBW @ Indian Bend Rd.	Rain/Stage	C.Creek / Salt	Thompson Pk	9/28/83	2N-4E-11	33 32 00	111 54 53	1071	1:9
4623	IBW @ Interceptor	Rain/Stage	C.Creek / Salt	Thompson Pk	4/21/94	2N-4E-12	33 31 57	111 53 55	1071	1:10
4638	Tatum Wash @ 40th St.	Rain/Stage	C.Creek / Salt	Thompson Pk	6/3/94	3N-4E-30	33 34 16	111 59 44	1300	1:11
4643	IBW @ Sweetwater	Rain/Stage	C.Creek / Salt	Thompson Pk	12/27/90	3N-3E-13	33 36 15	112 00 18	1400	1:12
4648	East Fork CC #1	Rain/Stage	C.Creek / Salt	Direct	3/2/94	4N-3E-23	33 40 05	112 01 15	1515	1:13,2:2,3:2
4658	East Fork CC #4	Rain/Stage	C.Creek / Salt	Direct	1/18/94	4N-3E-25	33 38 31	112 01 01	1456	1:14,2:3,3:3
4668	EFCC nr 7th Ave.	Rain/Stage	C.Creek / Salt	Direct	5/21/97	3N-3E-5	33 37 43	112 04 50	1325	1:15
4683	East Fork CC #3	Rain/Stage	C.Creek / Salt	Direct	9/13/94	4N-3E-34	33 38 44	112 02 24	1456	1:16,2:4,3:4
4748	Old X-cut @ McDowell	Rain/Stage	C.Creek / Salt	Direct	7/27/94	1N-4E-06	33 27 55	111 58 49	1250	1:17
4753	Old X-cut @ Thomas	Stage	C.Creek / Salt	Direct	7/26/94	2N-5W-30	33 29 17	111 54 52	1200	1:18
4803	Dreamy Draw Dam	Rain/Stage	C.Creek / Salt	Direct	1/24/84	3N-3E-34	33 33 45	112 01 54	1407	1:19,2:5,3:5
4808	ACDC @ 36th St.	Rain/Stage	C.Creek / Salt	Direct	2/24/94	2N-3E-13	33 30 09	112 00 00	1260	1:20
4813	ACDC @ 14th St.	Rain/Stage	C.Creek / Salt	Direct	2/9/94	2N-3E-4	33 32 31	112 02 35	1230	1:21
4818	10th Street Wash Basin #1	Rain/Stage	C.Creek / Salt	Direct	11/26/96	3N-3E-28	33 34 47	112 03 16	1150	1:22,2:6,3:6
4823	ACDC @ 43rd Ave.	Rain/Stage	C.Creek / Salt	White Tanks	11/14/90	3N-2E-22	33 35 03	112 09 16	1225	1:23
4833	Cave Creek @ Cactus	Rain/Stage	C.Creek / Salt	Direct	6/27/91	3N-2E-13	33 35 56	112 07 01	1280	1:24
4903	Cave Buttes Outlet	Rain/Stage	C.Creek / Salt	Direct	1/25/84	4N-3E-15	33 42 58	112 02 43	1649	1:25
4904	Cave Buttes Pool	Rain/Stage	C.Creek / Salt	Direct	1/25/84	4N-3E-15	33 42 58	112 02 43	1649	2:7,3:7
4918	Cave Cr. nr Cave Cr.	Stage	C.Creek / Salt	Thompson Pk	5/27/94	5N-3E-12	33 47 30	112 00 36	1800	1:26
4923	Cave Cr. @ Spur Cross	Rain/Stage	C.Creek / Salt	White Tanks	6/16/93	6N-4E-04	33 53 05	111 57 17	2280	1:27
4938	Reata Pass Dam	Rain/Stage	C.Creek / Salt	Mt. Ord	2/25/93	5N-5E-33	33 44 06	111 50 36	2600	2:8
5103	Centennial Railroad	Rain/Stage	Centennial	White Tanks	2/9/90	1S-6W-28	33 18 35	112 52 56	850	1:28
5113	Saddleback FRS	Rain/Stage	Centennial	White Tanks	12/16/88	2N-10W-34	33 27 55	113 04 21	1177	1:29,2:9,3:8
5128	Harquahala FRS	Rain/Stage	Centennial	Burnt Mtn.	3/1/94	2N-8W-05	33 32 54	113 05 52	1420	1:30,2:10,3:9

Flood Control District of Maricopa County

ALERT System Water Level Sensors WY 1997

Sorted by ID#

ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
5153	Narrows Dam	Rain/Stage	Centennial	Harquahala Mtn.	9/1/94	4N-12W-04	33 43 29	113 30 45	1960	1:31
5203	Buckeye FRS #1	Rain/Stage	Hassayampa	White Tanks	7/26/83	1N-5W-3	33 29 24	112 44 02	1097	1:32,2:11,3:10
5208	Buckeye FRS #2	Rain/Stage	Hassayampa	White Tanks	11/11/92	1N-3W-07	33 26 26	112 35 47	1150	1:33,2:12,3:11
5223	Hassy R. nr Morristown	Stage	Hassayampa	White Tanks	5/7/96	6N-4W-03	33 53 06	112 39 41	1830	1:34
5228	Hassy R. @ US 60	Rain/Stage	Hassayampa	White Tanks	3/14/94	7N-5W-12	33 58 22	112 43 40	2035	1:35
5233	Sunset FRS	Rain/Stage	Hassayampa	Yarnell Hill	2/12/89	7N-5W-11	33 57 50	112 44 33	2100	1:36,2:13,3:12
5248	Sunnycove FRS	Rain/Stage	Hassayampa	Yarnell Hill	7/31/86	7N-5W-11	33 57 25	112 44 24	2200	1:37,2:14,3:13
5283	Hassy R. @ I-10	Rain/Stage	Hassayampa	Yarnell Hill	11/9/94	1N-5W-03	33 27 33	112 45 46	1035	1:38
5308	Hassy R. @ Box Canyon	Rain/Stage	Hassayampa	Towers Mtn.	11/17/83	8N-4W-7	33 58 11	112 43 38	2245	1:39-41
5353	Hassy R. @ Wagoner Rd.	Rain/Stage	Hassayampa	Towers Mtn.	9/26/91	11N-3W-9	34 18 38	112 34 05	3785	1:42
5403	Agua Fria @ Buckeye	Rain/Stage	Agua Fria	Direct	10/12/88	1N-1W-14	33 26 05	112 19 55	940	1:43
5408	Colter @ El Mirage	Rain/Stage	Agua Fria	White Tanks	6/29/94	2N-1W-13	33 30 38	112 19 32	1025	1:44
5413	Dysart Drain @ LAFB	Rain/Stage	Agua Fria	Direct	8/22/96	2N-1W-03	33 32 38	112 20 57	1090	1:45
5418	White Tanks 3	Rain/Stage	Agua Fria	Direct	3/12/86	2N-2W-9	33 32 01	112 28 14	1190	1:46,2:15,3:14
5423	Dysart Chnl @ El Mirage	Stage	Agua Fria	Direct	3/7/97	2N-1W-1	33 32 38	112 19 11	1023	1:47
5438	McMicken Floodway	Rain/Stage	Agua Fria	Direct	9/3/92	4N-1E-18	33 41 04	112 24 33	1337	1:48
5448	McMicken Dam	Rain/Stage	Agua Fria	Direct	3/24/83	4N-2W-24	33 40 38	112 25 23	1361	1:49,2:16,3:15
5503	Agua Fria @ Grand Ave.	Rain/Stage	Agua Fria	Direct	4/27/94	3N-1E-18	33 36 25	112 18 16	1125	1:50
5508	New River @ Glendale	Rain/Stage	Agua Fria	White Tanks	3/21/90	3N-1E-8	33 32 14	112 17 00	1050	1:51
5523	ACDC @ 67th Ave.	Rain/Stage	Agua Fria	White Tanks	6/7/90	3N-1E-12	33 37 26	112 12 10	1220	1:52
5538	Adobe Dam Outlet	Rain/Stage	Agua Fria	Thompson Pk	10/28/82	4N-2E-21	33 40 37	112 09 12	1413	1:53
5539	Adobe Dam Pool	Rain/Stage	Agua Fria	Thompson Pk	10/28/82	4N-2E-21	33 40 37	112 09 12	1413	2:17,3:16
5543	Scatter Wash	Stage	Agua Fria	Thompson Pk	9/18/96	4N-2E-27	33 40 20	112 08 30	1340	1:54
5568	Skunk Creek @ I-17	Rain/Stage	Agua Fria	Direct	10/26/89	5N-2E-35	33 43 47	112 07 21	1475	1:55
5583	Skunk Cr. nr New R.	Stage	Agua Fria	White Tanks	6/21/95	7N-3E-29	33 55 36	112 04 57	1854	1:56
5598	New River @ Bell Rd.	Rain/Stage	Agua Fria	White Tanks	4/4/90	3N-1E-3	33 38 18	112 14 27	1200	1:57
5613	New River Outlet	Rain/Stage	Agua Fria	Direct	4/15/86	5N-1E-35	33 44 09	112 13 31	1498	1:58
5614	New River Pool	Rain/Stage	Agua Fria	Direct	4/15/86	5N-1E-35	33 44 09	112 13 31	1498	2:18,3:17
5968	Stoneridge Dam	Rain/Stage	Verde	Thompson Pk	12/11/96	3N-6E-22	33 35 41	111 44 01	1710	1:59,2:19,3:18
5973	Sunridge Canyon Dam	Rain/Stage	Verde	Mt. Ord	2/4/97	3N-6E-16	33 16 18	111 45 06	1932	1:60,2:20,3:19
5978	Golden Eagle Park Dam	Stage	Verde	Thompson Pk	12/12/96	3N-6E-10	33 37 07	111 44 07	1722	1:61,2:21,3:20
5983	North Heights Dam	Rain/Stage	Verde	Thompson Pk	10/11/96	3N-6E-9	33 37 21	111 44 54	1819	1:62,2:22,3:21

Flood Control District of Maricopa County

ALERT System Water Level Sensors WY 1997

Sorted by ID#

ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
5988	Aspen Dam	Stage	Verde	Thompson Pk	1/2/97	3N-6E-4	33 37 34	111 44 48	1840	1:63,2:23,3:22
5993	Hesperus Dam	Rain/Stage	Verde	Thompson Pk	12/18/96	3N-6E-4	33 38 14	111 44 47	1894	1:64,2:24,3:23
6503	Guadalupe FRS	Rain/Stage	Gila /Queen Ck	Direct	6/29/89	1S-4E-5	33 22 16	111 58 10	1250	1:65,2:25,3:24
6563	South Mountain Fan	Weather	Gila /Queen Ck	White Tanks	6/9/93	1S-2E-26	33 18 57	112 08 05	1420	1:66
6573	EMF @ Broadway	Rain/Stage	Gila /Queen Ck	Thompson Pk	8/10/89	1N-6E-26	33 24 21	111 42 42	1349	1:67
6583	EMF @ Queen Creek Rd.	Rain/Stage	Gila /Queen Ck	Thompson Pk	1/18/89	2S-6E-15	33 15 50	111 43 35	1317	1:68
6598	EMF @ Arizona Ave.	Rain/Stage	Gila /Queen Ck	Kings Ranch	2/10/89	3S-5E-15	33 10 53	111 51 50	1214	1:69
6608	Freestone Park Basin	Rain/Stage	Gila/Queen Ck	Thompson Pk	12/19/95	1S-6E-8	33 21 29	111 46 21	1450	2:26,3:25
6623	Crossroads Park Basin	Weather	Gila/Queen Ck	Thompson Pk	12/18/95	1S-6E-21	33 19 40	111 44 49	1270	2:27,3:26
6628	Signal Butte FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	11/10/87	1N-7E-12	33 26 25	111 35 25	1650	1:70,2:28,3:27
6673	Apache Junction FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	12/16/81	1N-8E-8	33 26 28	111 33 07	1989	1:71,2:29,3:28
6683	Powerline FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	12/3/92	1S-8E-9	33 21 06	111 32 34	1580	1:72,2:30,3:29
6688	Vineyard FRS	Rain/Stage	Gila /Queen Ck	Thompson Pk	11/2/83	1S-8E-9	33 21 06	111 32 34	1582	1:73,2:31,3:30
6703	Rittenhouse FRS	Rain/Stage	Gila /Queen Ck	Thompson Pk	9/27/88	2S-8E-2	33 17 22	111 30 26	1580	1:74,2:32,3:31
6713	Queen Ck @ Rittenhouse	Rain/Stage	Gila /Queen Ck	Kings Ranch	9/14/93	2S-7E-25	33 13 50	111 35 41	1400	1:75
6813	Buckeye FRS #3	Rain/Stage	Wtrmn/Sauceda	White Tanks	11/23/92	1N-3W-10	33 26 49	112 33 20	1200	1:76,2:33,3:32
6823	White Tanks 4	Rain/Stage	Wtrmn/Sauceda	White Tanks	1/9/86	1N-2W-5	33 27 04	112 29 40	1044	1:77,2:34,3:33
6853	Gila @ Estrella Pkwy.	Stage	Wtrmn/Sauceda	White Tanks	12/2/92	1N-1W-31	33 23 19	112 23 33	900	1:78
6893	Estrella Fan	Weather	Wtrmn/Sauceda	Waterman	4/30/93	2S-1W-12	33 16 08	112 19 15	1425	1:79
6923	Sauceda Wash	Rain/Stage	Wtrmn/Sauceda	White Tanks	2/28/90	6S-5W-4	32 52 27	112 44 57	726	1:80
6983	Vekol Wash	Rain/Stage	Wtrmn/Sauceda	White Tanks	3/7/90	7S-1E-3	32 50 30	112 14 58	1720	1:81
7013	Martinez Creek	Rain/Stage	Hassayampa	Yarnell Hill	11/23/94	8N-5W-17	34 01 44	112 47 30	2300	1:82
7043	Sols Wash nr Matthie	Rain/Stage	Hassayampa	Yarnell Hill	8/4/95	8N-5W-32	33 59 14	112 47 36	2220	1:83
7063	Hartman Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/6/94	7N-5W-12	33 57 47	112 49 40	2488	1:84
7083	Flying E Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/12/94	7N-5W-09	33 57 44	112 46 49	2302	1:85
7093	Casandro Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/12/94	7N-5W-10	33 57 44	112 45 53	2240	1:86
7113	Powder House Wash	Rain/Stage	Hassayampa	Yarnell Hill	5/18/95	7N-4W-06	33 59 00	112 42 45	2120	1:87
7133	Casandro Dam	Rain/Stage	Hassayampa	Yarnell Hill	8/15/96	7N-5W-11	33 58 04	112 44 49	2163	1:88,2:35,3:34

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ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
4813	ACDC @ 14th St.	Rain/Stage	C.Creek / Salt	Direct	2/9/94	2N-3E-4	33 32 31	112 02 35	1230	1:21
4808	ACDC @ 36th St.	Rain/Stage	C.Creek / Salt	Direct	2/24/94	2N-3E-13	33 30 09	112 00 00	1260	1:20
4823	ACDC @ 43rd Ave.	Rain/Stage	C.Creek / Salt	White Tanks	11/14/90	3N-2E-22	33 35 03	112 09 16	1225	1:23
5523	ACDC @ 67th Ave.	Rain/Stage	Agua Fria	White Tanks	6/7/90	3N-1E-12	33 37 26	112 12 10	1220	1:52
5538	Adobe Dam Outlet	Rain/Stage	Agua Fria	Thompson Pk	10/28/82	4N-2E-21	33 40 37	112 09 12	1413	1:53
5539	Adobe Dam Pool	Rain/Stage	Agua Fria	Thompson Pk	10/28/82	4N-2E-21	33 40 37	112 09 12	1413	2:17,3:16
5403	Agua Fria @ Buckeye	Rain/Stage	Agua Fria	Direct	10/12/88	1N-1W-14	33 26 05	112 19 55	940	1:43
5503	Agua Fria @ Grand Ave.	Rain/Stage	Agua Fria	Direct	4/27/94	3N-1E-18	33 36 25	112 18 16	1125	1:50
6673	Apache Junction FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	12/16/81	1N-8E-8	33 26 28	111 33 07	1989	1:71,2:29,3:28
5988	Aspen Dam	Stage	Verde	Thompson Pk	1/2/97	3N-6E-4	33 37 34	111 44 48	1840	1:63,2:23,3:22
5203	Buckeye FRS #1	Rain/Stage	Hassayampa	White Tanks	7/26/83	1N-5W-3	33 29 24	112 44 02	1097	1:32,2:11,3:10
5208	Buckeye FRS #2	Rain/Stage	Hassayampa	White Tanks	11/11/92	1N-3W-07	33 26 26	112 35 47	1150	1:33,2:12,3:11
6813	Buckeye FRS #3	Rain/Stage	Wtrmn/Sauceda	White Tanks	11/23/92	1N-3W-10	33 26 49	112 33 20	1200	1:76,2:33,3:32
7133	Casandro Dam	Rain/Stage	Hassayampa	Yarnell Hill	8/15/96	7N-5W-11	33 58 04	112 44 49	2163	1:88,2:35,3:34
7093	Casandro Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/12/94	7N-5W-10	33 57 44	112 45 53	2240	1:86
4903	Cave Buttes Outlet	Rain/Stage	C.Creek / Salt	Direct	1/25/84	4N-3E-15	33 42 58	112 02 43	1649	1:25
4904	Cave Buttes Pool	Rain/Stage	C.Creek / Salt	Direct	1/25/84	4N-3E-15	33 42 58	112 02 43	1649	2:7,3:7
4918	Cave Cr. nr Cave Cr.	Stage	C.Creek / Salt	Thompson Pk	5/27/94	5N-3E-12	33 47 30	112 00 36	1800	1:26
4923	Cave Cr. @ Spur Cross	Rain/Stage	C.Creek / Salt	White Tanks	6/16/93	6N-4E-04	33 53 05	111 57 17	2280	1:27
4833	Cave Creek @ Cactus	Rain/Stage	C.Creek / Salt	Direct	6/27/91	3N-2E-13	33 35 56	112 07 01	1280	1:24
5103	Centennial Railroad	Rain/Stage	Centennial	White Tanks	2/9/90	1S-6W-28	33 18 35	112 52 56	850	1:28
5408	Colter @ El Mirage	Rain/Stage	Agua Fria	White Tanks	6/29/94	2N-1W-13	33 30 38	112 19 32	1025	1:44
6623	Crossroads Park Basin	Weather	Gila/Queen Ck	Thompson Pk	12/18/95	1S-6E-21	33 19 40	111 44 49	1270	2:27,3:26
5423	Dysart Chnl @ El Mirage	Stage	Agua Fria	Direct	3/7/97	2N-1W-1	33 32 38	112 19 11	1023	1:47
4803	Dreamy Draw Dam	Rain/Stage	C.Creek / Salt	Direct	1/24/84	3N-3E-34	33 33 45	112 01 54	1407	1:19,2:5,3:5
5413	Dysart Drain @ LAFB	Rain/Stage	Agua Fria	Direct	8/22/96	2N-1W-03	33 32 38	112 20 57	1090	1:45
4648	East Fork CC #1	Rain/Stage	C.Creek / Salt	Direct	3/2/94	4N-3E-23	33 40 05	112 01 15	1515	1:13,2:2,3:2
4683	East Fork CC #3	Rain/Stage	C.Creek / Salt	Direct	9/13/94	4N-3E-34	33 38 44	112 02 24	1456	1:16,2:4,3:4
4658	East Fork CC #4	Rain/Stage	C.Creek / Salt	Direct	1/18/94	4N-3E-25	33 38 31	112 01 01	1456	1:14,2:3,3:3
4668	EFCC near 7th Ave.	Rain/Stage	C.Creek / Salt	Direct	5/21/97	3N-3E-5	33 37 43	112 04 50	1325	1:15
6598	EMF @ Arizona Ave.	Rain/Stage	Gila /Queen Ck	Kings Ranch	2/10/89	3S-5E-15	33 10 53	111 51 50	1214	1:69
6573	EMF @ Broadway	Rain/Stage	Gila /Queen Ck	Thompson Pk	8/10/89	1N-6E-26	33 24 21	111 42 42	1349	1:67

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ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
6583	EMF @ Queen Creek Rd.	Rain/Stage	Gila /Queen Ck	Thompson Pk	1/18/89	2S-6E-15	33 15 50	111 43 35	1317	1:68
6893	Estrella Fan	Weather	Wtrmn/Sauceda	Waterman	4/30/93	2S-1W-12	33 16 08	112 19 15	1425	1:79
7083	Flying E Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/12/94	7N-5W-09	33 57 44	112 46 49	2302	1:85
6608	Freestone Park Basin	Rain/Stage	Gila/Queen Ck	Thompson Pk	12/19/95	1S-6E-08	33 21 29	111 46 21	1450	2:26,3:25
6853	Gila @ Estrella Pkwy.	Stage	Wtrmn/Sauceda	White Tanks	12/2/92	1N-1W-31	33 23 19	112 23 33	900	1:78
778	Gila @ Maricopa Rd	Rain/Stage	Gila /Queen Ck	Signal Peak	4/9/95	3S-3E-13	33 10 16	112 00 21	1120	1:1
783	Gila R. @ Olberg	Rain/Stage	Gila /Queen Ck	Signal Peak	4/12/95	4S-6E-12	33 06 50	111 41 15	1290	1:2
5978	Golden Eagle Park Dam	Stage	Verde	Thompson Pk	12/12/96	3N-6E-10	33 37 07	111 44 07	1722	1:61,2:21,3:20
793	Greene Wash @ SR 84	Stage	Pinal	Signal Peak	3/23/94	7S-4E-21	32 52 48	111 56 03	1350	1:4
6503	Guadalupe FRS	Rain/Stage	Gila /Queen Ck	Direct	6/29/89	1S-4E-5	33 22 16	111 58 10	1250	1:65,2:25,3:24
5128	Harquahala FRS	Rain/Stage	Centennial	Burnt Mtn.	3/1/94	2N-8W-05	33 32 54	113 05 52	1420	1:30,2:10,3:9
7063	Hartman Wash	Rain/Stage	Hassayampa	Yarnell Hill	7/6/94	7N-5W-12	33 57 47	112 49 40	2488	1:84
5308	Hassy R. @ Box Canyon	Rain/Stage	Hassayampa	Towers Mtn.	11/17/83	8N-4W-7	33 58 11	112 43 38	2245	1:39-41
5283	Hassy R. @ I-10	Rain/Stage	Hassayampa	Yarnell Hill	11/9/94	1N-5W-03	33 27 33	112 45 46	1035	1:38
5228	Hassy R. @ US 60	Rain/Stage	Hassayampa	White Tanks	3/14/94	7N-5W-12	33 58 22	112 43 40	2035	1:35
5353	Hassy R. @ Wagoner Rd.	Rain/Stage	Hassayampa	Towers Mtn.	9/26/91	11N-3W-9	34 18 38	112 34 05	3785	1:42
5223	Hassy R. nr Morristown	Stage	Hassayampa	White Tanks	5/7/96	6N-4W-03	33 53 06	112 39 41	1830	1:34
5993	Hesperus Dam	Rain/Stage	Verde	Thompson Pk	12/18/96	3N-6E-4	33 38 14	111 44 47	1894	1:64,2:24,3:23
4613	IBW @ Indian Bend Rd.	Rain/Stage	C.Creek / Salt	Thompson Pk	9/28/83	2N-4E-11	33 32 00	111 54 53	1071	1:9
4623	IBW @ Interceptor	Rain/Stage	C.Creek / Salt	Thompson Pk	4/21/94	2N-4E-12	33 31 57	111 53 55	1071	1:10
4603	IBW @ McKellips Rd.	Rain/Stage	C.Creek / Salt	Thompson Pk	5/21/85	1N-4E-11	33 26 58	111 54 58	1187	1:8
4643	IBW @ Sweetwater	Rain/Stage	C.Creek / Salt	Thompson Pk	12/27/90	3N-3E-13	33 36 15	112 00 18	1400	1:12
7013	Martinez Creek	Rain/Stage	Hassayampa	Yarnell Hill	11/23/94	8N-5W-17	34 01 44	112 47 30	2300	1:82
5448	McMicken Dam	Rain/Stage	Agua Fria	Direct	3/24/83	4N-2W-24	33 40 38	112 25 23	1361	1:49,2:16,3:15
5438	McMicken Floodway	Rain/Stage	Agua Fria	Direct	9/3/92	4N-1E-18	33 41 04	112 24 33	1337	1:48
5153	Narrows Dam	Rain/Stage	Centennial	Harquahala Mtn.	9/1/94	4N-12W-04	33 43 29	113 30 45	1960	1:31
5598	New River @ Bell Rd.	Rain/Stage	Agua Fria	White Tanks	4/4/90	3N-1E-3	33 38 18	112 14 27	1200	1:57
5508	New River @ Glendale	Rain/Stage	Agua Fria	White Tanks	3/21/90	3N-1E-8	33 32 14	112 17 00	1050	1:51
5613	New River Outlet	Rain/Stage	Agua Fria	Direct	4/15/86	5N-1E-35	33 44 09	112 13 31	1498	1:58
5614	New River Pool	Rain/Stage	Agua Fria	Direct	4/15/86	5N-1E-35	33 44 09	112 13 31	1498	2:18,3:17
5983	North Heights Dam	Rain/Stage	Verde	Thompson Pk	10/11/96	3N-6E-09	33 37 21	111 44 54	1819	1:62,2:22,3:21
4748	Old X-cut @ McDowell	Rain/Stage	C.Creek / Salt	Direct	7/27/94	1N-4E-06	33 27 55	111 58 49	1250	1:17

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ID #	Gage Name	Sta. Type	Watershed	Repeater	Installed	T-R-S	Latitude	Longitude	Elev.	Page #s
4753	Old X-cut @ Thomas	Stage	C.Creek / Salt	Direct	7/26/94	2N-5W-30	33 29 17	111 54 52	1200	1:18
7113	Powder House Wash	Rain/Stage	Hassayampa	Yarnell Hill	5/18/95	7N-4W-06	33 59 00	112 42 45	2120	1:87
6683	Powerline FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	12/3/92	1S 8E 09	33 21 06	111 32 34	1580	1:72,2:30,3:29
6713	Queen Ck @ Rittenhouse	Rain/Stage	Gila /Queen Ck	Kings Ranch	9/14/93	2S-7E-25	33 13 50	111 35 41	1400	1:75
4938	Reata Pass Dam	Rain/Stage	C.Creek / Salt	Mt. Ord	2/25/93	5N-5E-33	33 44 06	111 50 36	2600	2:8
6703	Rittenhouse FRS	Rain/Stage	Gila /Queen Ck	Thompson Pk	9/27/88	2S-8E-2	33 17 22	111 30 26	1580	1:74,2:32,3:31
5113	Saddleback FRS	Rain/Stage	Centennial	White Tanks	12/16/88	2N-10W-34	33 27 55	113 04 21	1177	1:29,2:9,3:8
4523	Salt R. @ Priest Dr.	Stage	C.Creek / Salt	Direct	12/7/93	1N-4E-17	33 26 00	111 57 43	1133	1:6
788	Santa Cruz @ SR 84	Rain/Stage	Pinal	Signal Peak	3/16/94	7S-5E-21	32 52 55	111 49 45	1311	1:3
798	Santa Rosa @ SR 84	Rain/Stage	Pinal	Signal Peak	3/16/94	7S-4E-20	32 52 39	111 56 51	1305	1:5
6923	Sauceda Wash	Rain/Stage	Wtrmn/Sauceda	White Tanks	2/28/90	6S-5W-04	32 52 27	112 44 57	726	1:80
5543	Scatter Wash	Stage	Agua Fria	Thompson Pk	9/18/96	4N-2E-27	33 40 20	112 08 30	1340	1:54
6628	Signal Butte FRS	Rain/Stage	Gila /Queen Ck	Kings Ranch	11/10/87	1N-7E-12	33 26 25	111 35 25	1650	1:70,2:28,3:27
5583	Skunk Cr. nr New R.	Stage	Agua Fria	White Tanks	6/21/95	7N-3E-29	33 55 36	112 04 57	1854	1:56
5568	Skunk Creek @ I-17	Rain/Stage	Agua Fria	Direct	10/26/89	5N-2E-35	33 43 47	112 07 21	1475	1:55
7043	Sols Wash nr Matthie	Rain/Stage	Hassayampa	Yarnell Hill	8/4/95	8N-5W-32	33 59 14	112 47 36	2220	1:83
6563	South Mountain Fan	Weather	Gila /Queen Ck	White Tanks	6/9/93	1S-2E-26	33 18 57	112 08 05	1420	1:66
4563	Spookhill FRS	Rain/Stage	C.Creek / Salt	Thompson Pk	3/13/84	2N-7E-31	33 28 01	111 40 48	1595	1:7,2:1,3:1
5968	Stoneridge Dam	Rain/Stage	Verde	Thompson Pk	12/11/96	3N-6E-22	33 35 41	111 44 01	1710	1:59,2:19,3:18
5248	Sunnycove FRS	Rain/Stage	Hassayampa	Yarnell Hill	7/31/86	7N-5W-11	33 57 25	112 44 24	2200	1:37,2:14,3:13
5973	Sunridge Canyon Dam	Rain/Stage	Verde	Mt. Ord	2/4/97	3N-6E-16	33 16 18	111 45 06	1932	1:60,2:20,3:19
5233	Sunset FRS	Rain/Stage	Hassayampa	Yarnell Hill	2/12/89	7N-5W-11	33 57 50	112 44 33	2100	1:36,2:13,3:12
4638	Tatum Wash @ 40th St.	Rain/Stage	C.Creek / Salt	Thompson Pk	6/3/94	3N-4E-30	33 34 16	111 59 44	1300	1:11
4818	10th Street Wash Basin #1	Rain/Stage	C.Creek / Salt	Direct	11/26/96	3N-3E-28	33 34 47	112 03 16	1150	1:22,2:6,3:6
6983	Vekol Wash	Rain/Stage	Wtrmn/Sauceda	White Tanks	3/7/90	7S-1E-3	32 50 30	112 14 58	1720	1:81
6688	Vineyard FRS	Rain/Stage	Gila /Queen Ck	Thompson Pk	11/2/83	1S-8E-9	33 21 06	111 32 34	1582	1:73,2:31,3:30
5418	White Tanks 3	Rain/Stage	Agua Fria	Direct	3/12/86	2N-2W-9	33 32 01	112 28 14	1190	1:46,2:15,3:14
6823	White Tanks 4	Rain/Stage	Wtrmn/Sauceda	White Tanks	1/9/86	1N-2W-5	33 27 04	112 29 40	1044	1:77,2:34,3:33

SUMMARY OF SIGNIFICANT STREAMFLOW EVENTS

Water Year 1997 though drier than average over much of Maricopa County did see a few significant runoff events. The winter season saw two runoff producing events. The first occurred on January 13th-14th and the second on February 28th. The January 13th-14th event resulted in the maximum flow for the year on the Indian Bend Wash gages. Near Indian Bend Road 350 cfs was recorded while near McKellips Road 55 cfs were recorded. Cave Creek near Cave Creek also recorded the annual maximum runoff of 280 cfs during this event which was matched during the runoff event of February 28th.

The summer runoff season saw considerably more runoff activity than the winter season. The west and especially the northwest portions of Maricopa County experienced most of the big runoff events. The largest and most significant runoff producing event occurred almost at water year's end on September 25th and 26th when the remnants of Hurricane Nora crossed western Maricopa County. Many of the washes in these areas experienced flows around the 10-year recurrence interval. Centennial Wash had a peak discharge of 8,100 cfs near Salome, Arizona which overtopped the Narrow Dam emergency spillways and eventually caused the dam to breach in two locations. In and around Wickenburg, Arizona, Hartman Wash saw 1,250 cfs, Flying E Wash 1,145 cfs, Casandro Wash 180 cfs, Sols Wash near Matthie 8,000 cfs, Martinez Creek 10,300 cfs, and the Hassayampa River at US 60 peaked at 15,400 cfs. The three dams in Wickenburg also experienced relatively large impoundments. Casandro Dam filled to 45% of its spillway capacity while Sunset Dam filled to almost 40% and Sunnycove Dam to 14%. September 11th was the big runoff producing event in the metropolitan area when the ACDC and Tatum Wash experienced their annual maximum runoff events of 940 cfs and 90 cfs respectively.

The USGS also recorded several significant events in August and September at several of the cooperative continuous and crest stage gage stations including, Centennial Wash near Arlington, Hassayampa River near Morristown and near Arlington, Tiger Wash, and Jackrabbit Wash. These events will be reported by the USGS in their Water Data Report for Water Year 1997.

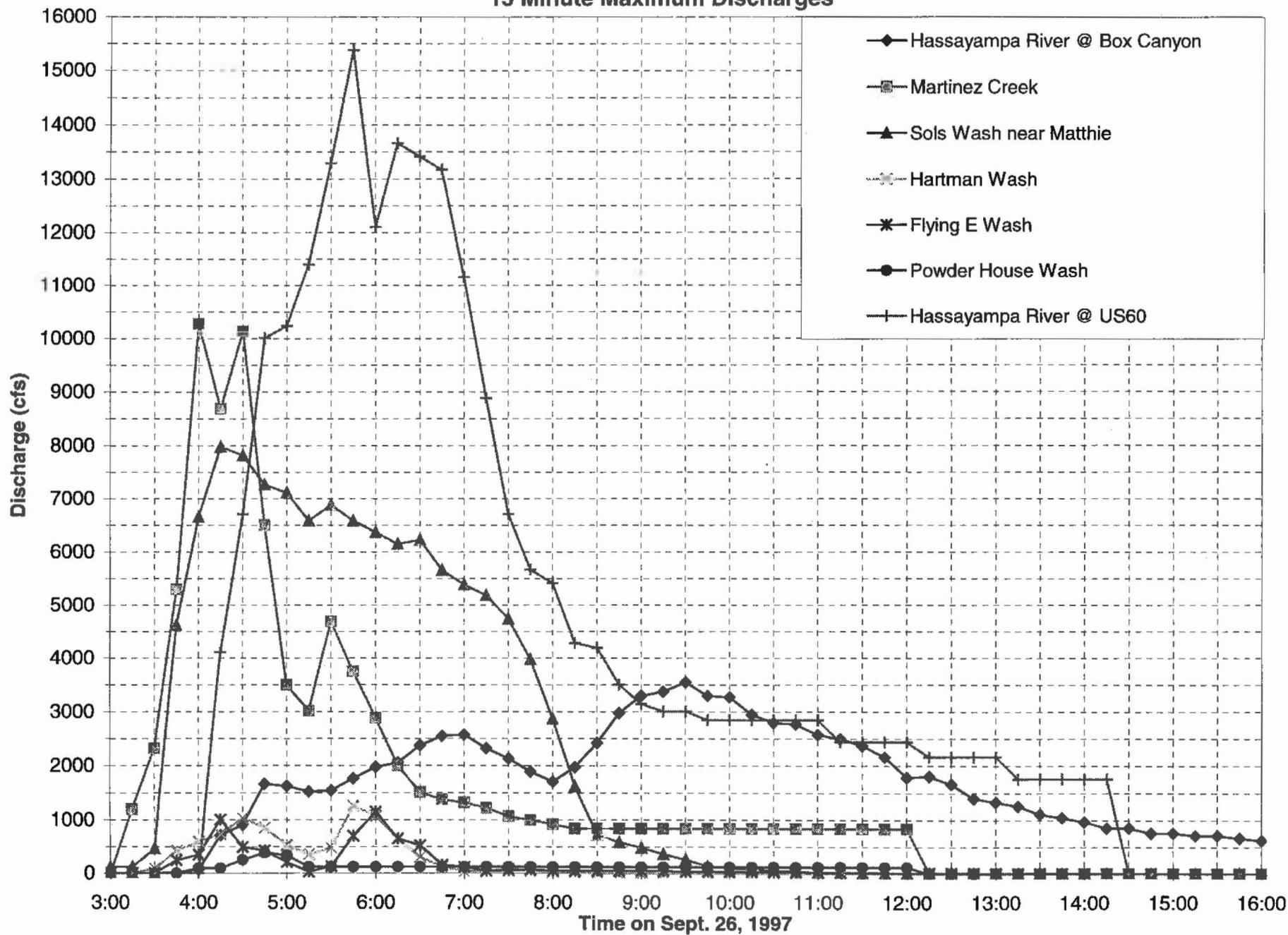
The significant flows and/or impoundments recorded by the FCDMC for Water Year 1997 are summarized in the following table. The hydrographs for a number of stations for the Hurricane Nora flood event are shown on the page following the summary table.

Maximum Flows and Impoundments for Water Year 1997 at Selected FCDMC Water Level Sensor Locations

Location	Discharge (cfs)	Stage (feet)	Contents (ac-ft)	Contents (%full)	Date
ACDC @ 14 th Street	60				9/11/97
ACDC @ 43rd Ave	890				9/11/97
ACDC @ 67th Ave	940				9/11/97
Buckeye FRS #1	95	1.3	48*	0.6	8/8/97
Casandro Dam	19	11.3	65	45	9/26/97
Casandro Wash	180*				9/26/97
Cave Creek near Cave Creek	280				1/14/97 & 2/28/97
Flying E Wash	1,145				9/26/97
Greene Wash	480				9/6/97
Harquahala FRS	290	18.4	151*	1.7	8/8/97
Hartman Wash	1250				9/26/97
Hassayampa River @ I-10	7,440*				9/26/97
Hassayampa River at Box Canyon	3,550				9/26/97
Hassayampa River at US 60	15,400				9/26/97
Hassayampa River at Wagoner Road	215				9/26/97
Indian Bend Wash near Indian Bend Road	350				1/13/97
Indian Bend Wash near McKellips Road	130				8/26/97
Martinez Creek	10,300				9/26/97
Narrows Dam	2,610*	20.7	Unknown	> 100	9/26/97
Powder House Wash	390*				9/26/97
Saddleback FRS	65	1.5	86	1.3	8/8/97
Sauceda Wash	700				9/6/97
Signal Butte FRS	0	5.6	39	2.3	8/10/97
Skunk Creek near New River Road	110				9/11/97
Sols Wash near Mattheie	8,000				9/26/97
Sunycove FRS	44	17.2	30	13.9	9/26/97
Sunset FRS	43	12.3	34	39.5	9/26/97
Tatum Wash at 40 th Street	90				9/11/97
Miscellaneous Flows Recorded by FCDMC during Water Year 1997					
Centennial Wash near Salome, AZ	8,100		Based on Slope-Conveyance Survey		9/26/97

* Refer to individual station pages for notes on these sites.

Flood of September 26, 1997 15 Minute Maximum Discharges





Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 778 **Name:** Gila @ Maricopa Rd

USGS Gage: Gila River near Maricopa, AZ, ID# 09479350

Drainage Area: 19,915 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 783 **Name:** Gila R. @ Olberg

USGS Gage: Gila River near Sacaton, AZ, ID# 09478350

Drainage Area: 18,674 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 788 **Name:** Santa Cruz @ SR 84
Period of Record: 03/16/94 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Dec. 3	40	Jan. 4	78
Mar. 3	57	Aug. 8	40
Sept. 3	73	Sept. 6	56
Sept. 28	42		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	
1				12								1	
2				4								40	
3			14	2		25						64	
4				42		1	1					67	
5												20	
6										1		21	
7										6		5	
8											2		
9			2								24		
10											1		
11													
12						6					5		
13													
14													
15													
16			2										
17			9										
18											8		
19											14		
20			10										
21			13										
22													
23			2										
24													
25												4	
26												3	
27								1				2	
28								2				25	
29												2	
30													
31													
TOTAL	0	0	51	60	0	33	1	3	0	6	53	255	
MEAN	0	0	2	2	0	1	0	0	0	0	2	8	
MAX	0	0	40	78	0	57	6	21	0	12	40	73	
MIN	0	0	0	0	0	0	0	0	0	0	0	0	
AC_FT	0	0	102	120	0	65	2	7	0	13	104	505	
WTR YR 1997	TOTAL		463	MEAN		1	MAX	78	MIN		0	AC_FT	918

Note: Many flows due to irrigation return water.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 793 **Name:** Greene Wash @ SR 84

Period of Record: 03/23/94 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

Minimum flow recorded by gage is about 40 cfs at 0.1 ft gage height.

Day Peak Discharge (cfs)

Sept. 6 482

Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1												
2												
3												
4												
5												
6												101
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	0	0	0	0	0	0	0	0	0	0	101
MEAN	0	0	0	0	0	0	0	0	0	0	0	3
MAX	0	0	0	0	0	0	0	0	0	0	0	482
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	199

WTR YR 1997 TOTAL 101 MEAN 0 MAX 482 MIN 0 AC_FT 199

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 798 **Name:** Santa Rosa @ SR 84
Period of Record: 03/16/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow above gage during Water Year 1997.
 Minimum flow recorded by gage is about 325 cfs at -0.14 ft gage height.

<u>Day</u>	<u>Peak Discharge (cfs)</u>												
Sept. 5 or 6	45*												
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	
MAX	0	0	0	0	0	0	0	0	0	0	0	45*	
MIN	0	0	0	0	0	0	0	0	0	0	0	0	
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0	
WTR YR 1997	TOTAL	0		MEAN	0		MAX	45*	MIN	0		AC_FT	0

* Estimated from high water marks below instrument at -1.42 ft gage height. Therefore, no volume (ac-ft) or mean flow data available.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 4523 **Name:** Salt R. @ Priest Dr.

USGS Gage: Salt River at Priest Drive, ID# 09512165

Drainage Area: 13,223 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (source: Table 2-4 from <i>Study for Modified Roosevelt Dam</i>)				
Magnitude and Probability of Instantaneous Peak Flow				
Discharge, in cfs, for Indicated Recurrence Interval				
5-year	10-year	20-year	50-year	100-year
20,500	55,000	90,000	140,000	169,000

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 4563 **Name:** Spookhill FRS
Drainage Area: 13.6 mi²
Period of Record: Nov. 1987 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No outflow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC_FT	0		

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4603 **Name:** IBW @ McKellips Rd.
Drainage Area: 101 mi²
Period of Record: Nov. 1987 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	55	Feb. 27	38
Aug. 26	128		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1					12							
2					2							
3											1	
4											1	
5												
6												
7												
8											2	
9											3	
10	1											
11												1
12												1
13				15								
14				22								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26											44	
27					5						11	
28					15						1	
29												
30												
31										1		
TOTAL	1	0	0	37	20	14	0	0	0	1	61	1
MEAN	0	0	0	1	1	0	0	0	0	0	2	0
MAX	1	3	0	55	38	18	1	0	0	16	128	9
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	2	1	0	74	40	28	0	0	0	1	121	3
WTR YR 1997	TOTAL	137	MEAN	0	MAX	128	MIN	0	AC_FT	271		

See also the USGS Water-Data Report for Indian Bend Wash @ Curry Road, USGS gage ID# 09512162, located approximately 1/2 mile downstream.

Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
4,000	14,000	20,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4613 **Name:** IBW @ Indian Bend
Drainage Area: approximately 88 mi²
Period of Record: USGS -- 1961-1984; FCDMC -- Nov. 1987 to current water year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	346	Feb. 28	243

Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						7						
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13				59								
14				16								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27						2						
28						60						
29												
30												
31												

TOTAL	0	0	0	74	62	7	0	0	0	0	0	0
MEAN	0	0	0	2	2	0	0	0	0	0	0	0
MAX	0	0	0	346	243	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	148	123	15	0	0	0	0	0	0

WTR YR 1997 TOTAL 144 MEAN 0 MAX 346 MIN 0 AC_FT 285

Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
3,500	12,000	17,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4623 **Name:** IBW Interceptor
Drainage Area: 35 mi²
Period of Record: 04/21/94 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC_FT	0		

Flood Flow Frequency (HEC-1 for IBW FDS 1997)
Magnitude and Probability of Instantaneous Peak Flow
Discharge, in cfs, for Indicated Recurrence Interval
100-year
8,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4638 **Name:** Tatum Wash @ 40th
Drainage Area: 1.82 mi²
Period of Record: 06/03/94 to current year
Revised Records: WY1996: WY1995
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Nov. 22	22	Sept. 11	89

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												3
12												4
13												
14												
15												
16												
17												
18												
19												
20												
21												
22		9										
23		7										
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	15	0	0	0	0	0	0	0	0	0	7
MEAN	0	1	0	0	0	0	0	0	0	0	0	0
MAX	0	22	0	0	0	0	0	0	0	0	0	89
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	31	0	0	0	0	0	0	0	0	0	14

WTR YR 1997	TOTAL	22	MEAN	0	MAX	89	MIN	0	AC_FT	44		

Flood Flow Frequency (HEC-1 for Tatum Wash Detention Basin Analysis, 1995)
Magnitude and Probability of Instantaneous Peak Flow
Discharge, in cfs, for Indicated Recurrence Interval
100-year
2,200

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4643 **Name:** IBW @ Sweetwater

Drainage Area: 9.2 mi²

Period of Record: 12/27/90 to current year*

Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>												
Jan. 13	50												
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
TOTAL	0	0	0	4	0	0	0	---	---	---	---	---	
MEAN	0	0	0	0	0	0	0	---	---	---	---	---	
MAX	0	0	0	50	0	0	0	---	---	---	---	---	
MIN	0	0	0	0	0	0	0	---	---	---	---	---	
AC_FT	0	0	0	8	0	0	0	---	---	---	---	---	
WTR YR 1997	TOTAL	4		MEAN	0		MAX	50	MIN	0		AC_FT	8

Note: Gage removed due to bridge and roadway construction on 04/25/1997. Site to be reinstalled as soon as construction allows.

Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
2,000	3,500	6,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4648 **Name:** E.Fork CC #1
Drainage Area: 1.18 mi²
Period of Record: 03/02/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No outflows during Water Year 1997 except on following days:

<u>Day</u>	<u>Peak Discharge (cfs)</u>			<u>Day</u>	<u>Peak Discharge (cfs)</u>							
Aug. 3	2			Sept. 11	7							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	2	7
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	1
WTR YR 1997	TOTAL	0		MEAN	0	MAX	7	MIN	0	AC_FT	1	

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4658 **Name:** E.Fork CC #4
Drainage Area: 0.68 mi²
Period of Record: 01/18/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows greater than 10 cfs during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	17	Feb. 27	19
Aug. 3	12	Sept. 11	37

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	1	0	0	9	7	1	3	0	0	0	10	4
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	7	0	0	17	19	0	7	0	0	0	12	37
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	2	0	0	19	14	2	6	0	0	0	19	9

WTR YR 1997	TOTAL	36	MEAN	0	MAX	37	MIN	0	AC_FT	71
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See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 4668 **Name:** EFCC nr 7thAve
Drainage Area: 14.1 mi²
Period of Record: 05/21/97 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Maximum flow during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>											
Sept. 11	133*											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	133*
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL	0	MEAN	0	MAX	133*	MIN	0	AC_FT	0		

* Maximum from high water marks on crest stage gage. Gage discovered not functioning on 12/08/97. Assumed not functioning properly since installation. Therefore, many other days of flow less than 9/11/97 maximum may have been missed. Also, therefore no mean daily flows or volumes reported for Water Year 1997.

Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
2,300	6,300	8,900

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4683 **Name:** E.Fork CC #3
Drainage Area: 3.52 mi² (1.86 mi² controlled by EFCC #1 and EFCC #4)
Period of Record: 07/27/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows greater than 10 cfs during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>													
Sept. 11	14*													
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	0	0	0	0	0	0	0	0	0	0	0	0		
MAX	0	0	0	0	0	0	0	0	0	0	0	14*		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	0	1		
WTR YR 1997	TOTAL	0		MEAN	0		MAX	14*		MIN	0		AC_FT	1

* Flows up to about the 2-year are passed beneath the detention basin via storm drains. Also, the 9/11/97 event appears to have been caused by local flow from the area immediate to the gage.

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4748 **Name:** Old Xcut @ McDowell

Period of Record: 07/27/94 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	57	July 31	66
Aug. 3	68	Aug. 8	63
Aug. 26	78	Sept. 11	89

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1								27				
2								29				14
3								30			5	13
4								30				5
5								30				1
6								17				
7								12				
8											8	
9											5	
10												
11												14
12												18
13				8								
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26											15	
27					8							
28					10		13					
29							10					
30							26					
31										4		

TOTAL	0	0	0	8	18	0	49	174	0	4	34	65
MEAN	0	0	0	0	1	0	2	6	0	0	1	2
MAX	0	0	0	57	33	0	26	30	0	66	78	89
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	17	36	0	96	345	0	8	67	128

WTR YR 1997	TOTAL	352	MEAN	1	MAX	89	MIN	0	AC_FT	697		

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4753 **Name:** Old Xcut @ Thomas
Period of Record: 07/26/94 to 06/18/97*
Revised Records: WY1996: WY1995
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak discharges of interest greater than 50 cfs during Water Year 1997:

Day **Peak Discharge (cfs)**

Jan. 13 104

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	1	1	1	1		39	79	3			
2	2	1	1	1	1	1	24	107	3			
3	2	1	1	2	1	14	59	83	3			
4	2	1	1	1	1	42	51	60	3			
5	2	1	2	1	1	25	67	54	3			
6	2	2	3	1	1	39	92	89	3			
7	2	2	3	1	1	34	76	21	3			
8	2	2	2	1	1	38	60	141	3			
9	2	1	1	2	1	40	51	141	3			
10	2	1	1	2	1	83	22	63	3			
11	1	1	1	2	1	27	54	62	3			
12	2	1	2	2	1	23	57	96	3			
13	2	1	2	29	1	41	56	27	3			
14	2	1	2	2		23	60	2	3			
15	1	2	2	1		44	48	3	3			
16	1	2	2	1		43	76	2	3			
17	2	2	2	1		71	81	1	3			
18	2	2	1	1		48	97	1	3			
19	2	2	2	1		23	61	2				
20	2	2	1	1		74	77	1				
21	2	1	1	1	25	39	143	2				
22	2	1	1	1	21	51	109	2				
23	2	1	1	1	38	87	74	2				
24	2	1	1	1	24	44	43	3				
25	2	1	2	1	16	25	37	3				
26	3	1	1	1	29	28	52	3				
27	2	1	1	1	51	11	39	3				
28	2	1	1	1	1	32	91	3				
29	2	2	1	1		50	41	3				
30	1	1	1	1		51	89	3				
31	1		1	1		69		3				

TOTAL	59	46	50	74	219	1221	1926	1062	76	---	---	---
MEAN	2	2	2	2	8	39	64	34	3	---	---	---
MAX	17	8	3	104	254	173	225	225	3	---	---	---
MIN	1	1	1	1	0	0	2	1	3	---	---	---
AC_FT	117	91	99	147	435	2422	3820	2107	150	---	---	---

WTR YR 1997 TOTAL 4734 MEAN 14 MAX 254 MIN 0 AC_FT 9390

Note: High daily mean values shown for late Feb., March, April, and early May due to presence of a temporary construction dam across the channel which caused backwater onto the gage.

* Gage discontinued 06/18/97.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4803 **Name:** Dreamy Draw Dam

Drainage Area: 1.3 mi²

Period of Record: Nov. 1987 to current year

Revised Records: WY1996: WY1995

Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows occurred on following days during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 11 17

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	2	0	0	0	0	0	0	17
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	1	0	0	0	0	0	0	2

WTR YR 1997 TOTAL 1 MEAN 0 MAX 17 MIN 0 AC_FT 2

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4808 **Name:** ACDC @ 36 St
Drainage Area: 4.82 mi²
Period of Record: 02/24/94 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	5	Sept. 12	7

Daily Mean Values												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3											1	
4												
5												
6												
7												
8												
9												
10												
11												1
12												2
13				1								
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	1	0	0	1	1	0	1	0	0	0	1	3
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	3	0	0	5	3	0	2	0	0	0	2	7
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	2	0	0	2	2	0	1	0	0	0	3	5

WTR YR 1997	TOTAL		8	MEAN	0	MAX	7	MIN	0	AC_FT	15	

Flood Flow Frequency (HEC-1 for ACDC ADMS)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
2-year	10-year	100-year
590	2,510	5,410

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4813 **Name:** ACDC @ 14 St
Drainage Area: 10.2 mi²
Period of Record: 02/09/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 4	21	Jan. 13	21
Sept. 11	58		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4				1								
5												
6												
7												
8												
9												
10												
11												11
12												10
13				1								22
14												20
15												1
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	3	0	0	0	0	0	0	0	64
MEAN	0	0	0	0	0	0	0	0	0	0	0	2
MAX	0	0	0	21	0	0	0	0	0	0	0	58
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	5	0	0	0	0	0	0	0	127
WTR YR 1997	TOTAL		66	MEAN	0	MAX	58	MIN	0	AC_FT		132

Note: Flows on Sept. 12-15, 1997 from water treatment plant releases upstream. Flow on Sept. 11, 1997 storm generated.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4818 **Name:** 10 St.Wash Basin #1
Drainage Area: 1.21 mi²
Period of Record: 11/26/96 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 11 12

Daily Mean Values

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	---	0	0	0	0	0	0	0	0	0	0	2
MEAN	---	0	0	0	0	0	0	0	0	0	0	0
MAX	---	0	0	1	3	0	2	0	0	0	0	12
MIN	---	0	0	0	0	0	0	0	0	0	0	0
AC_FT	---	0	0	0	0	0	0	0	0	0	0	4
WTR YR 1997	TOTAL		3	MEAN	0	MAX	12	MIN	0	AC_FT		5

Note: Gage installed 11/26/96. Also, about 300 cfs bypasses the basin in Tenth Street Wash.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4823 **Name:** ACDC @ 43 Av
Drainage Area: 56 mi² below Cave Buttes Dam
Period of Record: 12/17/91 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Feb. 27	497	Sept. 11	886

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												237
12												26
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27					85							
28												
29												
30												
31												

TOTAL	0	0	0	0	85	0	0	0	0	0	0	262
MEAN	0	0	0	0	3	0	0	0	0	0	0	9
MAX	0	0	0	0	497	0	0	0	0	0	0	886
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	168	0	0	0	0	0	0	520

WTR YR 1997	TOTAL	347	MEAN	1	MAX	886	MIN	0	AC_FT	688		

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4833 **Name:** Cave Creek @ Cactus
Drainage Area: 33.6 mi² below Cave Buttes Dam
Period of Record: 06/21/91 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 15	151	Mar. 1	160
Sept. 11	194		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1						142						
2						31						
3						1						
4												
5												
6												
7												
8												
9												
10												
11												69
12												53
13				20								6
14				21								2
15				136								
16				74								
17				34								
18				15								
19				6								
20				2								
21												
22												
23												
24												
25												
26												
27						9						
28					116							
29												
30												
31												
TOTAL	0	0	0	308	125	174	0	0	0	0	0	130
MEAN	0	0	0	10	4	6	0	0	0	0	0	4
MAX	0	0	0	151	139	160	0	0	0	0	0	194
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	611	248	345	0	0	0	0	0	257
WTR YR 1997	TOTAL		737	MEAN		2	MAX	194	MIN	0	AC_FT	1462

Note: Receding limbs of hydrographs greatly affected by clogging of outlet orifice. Therefore, low flows for falling hydrographs may be unrealistically high. See downstream stations 4823 and 5523 for a better representation of the falling limbs.

Flood Flow Frequency (HEC-1 for ACDC ADMS)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
2-year	10-year	100-year
2,225	5,750	14,240

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 4903 **Name:** Cave Buttes Outlet
Drainage Area: 191 mi² at Cave Buttes Dam
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	160	Feb. 28	155
Sept. 12	76		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1					53							
2												
3				7								
4												
5				7								
6												
7												
8												
9												
10												
11												
12												25
13												
14				89								
15				28								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27					1							
28					103							
29												
30												
31												
<hr/>												
TOTAL	0	0	0	132	104	53	0	0	0	0	0	25
MEAN	0	0	0	4	4	2	0	0	0	0	0	1
MAX	0	0	0	160	155	135	0	0	0	0	0	76
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	261	206	106	0	0	0	0	0	49
<hr/>												
WTR YR 1997	TOTAL	313	MEAN	1	MAX	160	MIN	0	AC_FT	621		

Note: This is the outflow from Cave Buttes Dam. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 4918 **Name:** Cave Cr nr Cave Cr

Drainage Area: 121 mi²

Period of Record: USGS ID# 09512300 -- 05/17/58 to 09/30/67;

1968-1994 (annual peaks only)

FCDMC -- 05/27/94 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	279	Feb. 28	279
Sept. 11	162		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1					129							
2					1							
11												14
12				1								
13				132								
14				138								
15												
27					5							
28					169							

TOTAL	0	0	0	271	174	130	0	0	0	0	0	14
MEAN	0	0	0	9	6	4	0	0	0	0	0	0
MAX	0	0	0	279	279	129	0	0	0	0	0	162
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	537	345	258	0	0	0	0	0	29

WTR YR 1997	TOTAL	589	MEAN	2	MAX	279	MIN	0	AC_FT	1168		

Flood Flow Frequency					
(based on HECWRC implementation of Bulletin 17B, n = 38)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
1,420	4,420	7,670	11,900	18,900	25,600

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 4923 **Name:** Cave Cr. @ SpurCross

USGS Gage: Cave Creek below Cottonwood Creek, ID# 09512280

Drainage Area: 82.7 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (based on HECWRC implementation of Bulletin 17B, n = 18)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
970	2,970	5,260	8,370	14,000	19,700

**Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow**

Station Number: 5103 **Name:** Centennial Railroad

USGS Gage: Centennial Wash at SPRR, near Arlington, ID# 09517490

Drainage Area: 1,817 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (based on HECWRC Implementation of Bulletin 17B, n = 12)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
830	4,510	10,600	21,200	45,200	74,400

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5113 **Name:** Saddleback FRS
Drainage Area: 29.6 mi² excluding area brought in from Harquahala FRS
Period of Record: 12/16/88 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest occurred on following days during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 8	64	Sept. 25	47

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>		
1														
2														
3														
4														
5														
6														
7														
8											5			
9											5			
10														
11												9		
12														
13														
14														
15														
16														
17											3			
18											2			
19														
20														
21														
22														
23														
24														
25												6		
26														
27												3		
28												3		
29														
30											1			
31											6			
<hr/>														
TOTAL	0	0	0	0	0	0	0	0	0	0	23	22		
MEAN	0	0	0	0	0	0	0	0	0	0	1	1		
MAX	0	0	0	0	0	0	0	0	0	0	64	47		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	45	43		
<hr/>														
WTR YR 1997	TOTAL		44	MEAN		0	MAX		64	MIN		0	AC_FT	88

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5128 **Name:** Harquahala FRS

Drainage Area: 102.3 mi²

Period of Record: 03/01/94 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflow occurred on the following day during Water Year 1997:

Day **Peak Discharge (cfs)**

Aug. 8 292

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8											16	
9											31	
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	---	0	0	47	0
MEAN	0	0	0	0	0	0	0	---	0	0	2	0
MAX	0	0	0	0	0	0	0	---	0	0	292	0
MIN	0	0	0	0	0	0	0	---	0	0	0	0
AC_FT	0	0	0	0	0	0	0	---	0	0	93	0
WTR YR 1997	TOTAL		47	MEAN	0	MAX	292	MIN	0	AC_FT	93	

Gage out of service 04/23/97 to 06/18/97 due to instrument failure. No outflows missed.

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

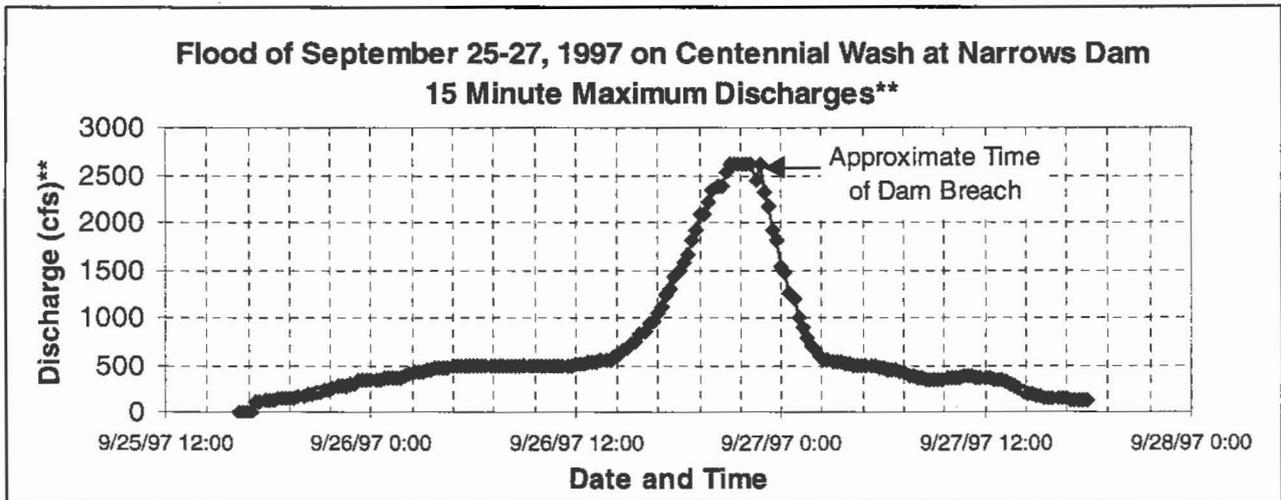
Computation Of Continuous Records Of Streamflow

Station Number: 5153 **Name:** Narrows Dam
Drainage Area: 684 mi²
Period of Record: 09/01/94 to 05/09/96; 04/29/97 to current year*
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 18	152	Aug. 31	262
Sept. 26	2,610**		

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												166
2												93
18											129	
19											128	
20											41	
25												61
26												970
27												342
28												16
31											129	
TOTAL	---	---	---	---	---	---	0	0	0	0	426	1648
MEAN	---	---	---	---	---	---	0	0	0	0	14	55
MAX	---	---	---	---	---	---	0	0	0	0	262	2610
MIN	---	---	---	---	---	---	0	0	0	0	0	0
AC_FT	---	---	---	---	---	---	0	0	0	0	845	3269
WTR YR 1997	TOTAL	2074	MEAN	6	MAX	2610	MIN	0	AC_FT	4115		



* Gage down from 05/09/96 to 04/29/97 due to construction. Gage reinstalled on principle outlet 04/29/97.

** Outflow shown for maximum stage over emergency spillway before dam failure on 09/26/97. Actual peak outflow may have been higher during dam failure. Maximum inflow estimated at 8,100 cfs based on slope-conveyance survey upstream of dam near Salome, AZ.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5203 **Name:** Buckeye FRS #1
Drainage Area: 74 mi² without area from Buckeye FRS #2 and #3
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 8	94	Aug. 17	59
Sept. 2	15	Sept. 11	6

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												2
2												11
3												3
4												
5												
6												
7												
8											8	
9											35	
10											5	
11												1
12												
13												
14												
15												
16												
17											13	
18											14	
19											2	
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	78	17
MEAN	0	0	0	0	0	0	0	0	0	0	3	1
MAX	0	0	0	0	0	0	0	0	0	0	94	15
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	154	34

WTR YR 1997 TOTAL 95 MEAN 0 MAX 94 MIN 0 AC_FT 188

Note: Because of local drawdown effects at the gage on the principle outlet, discharges for stages below about 1 foot gage height are approximate. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5208 **Name:** Buckeye FRS #2
Drainage Area: 5.7 mi² without area from Buckeye FRS #3
Period of Record: 11/11/92 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 8	19	Aug. 30	20

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8											1	
9											1	
10												
11												1
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29											2	
30											1	
31											1	
<hr/>												
TOTAL	0	0	0	0	0	0	0	0	0	0	6	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	20	4
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	12	1
<hr/>												
WTR YR 1997	TOTAL		7	MEAN	0	MAX	20	MIN	0	AC_FT	13	

Note: Because of local drawdown effects at the gage on the principle outlet, discharges for stages below about 1 foot gage height are approximate. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 5223 **Name:** Hassy nr Morrystown

USGS Gage: Hassayampa River near Morrystown, ID# 09516500

Drainage Area: 796 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (based on HECWRC implementation of Bulletin 17B, n = 44, expected probability show as it plots closer to observed data)					
Magnitude and Probability of Instantaneous Peak Flow Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
2,920	10,200	18,400	29,200	47,500	64,700

Flood Control District Of Maricopa County ALERT System

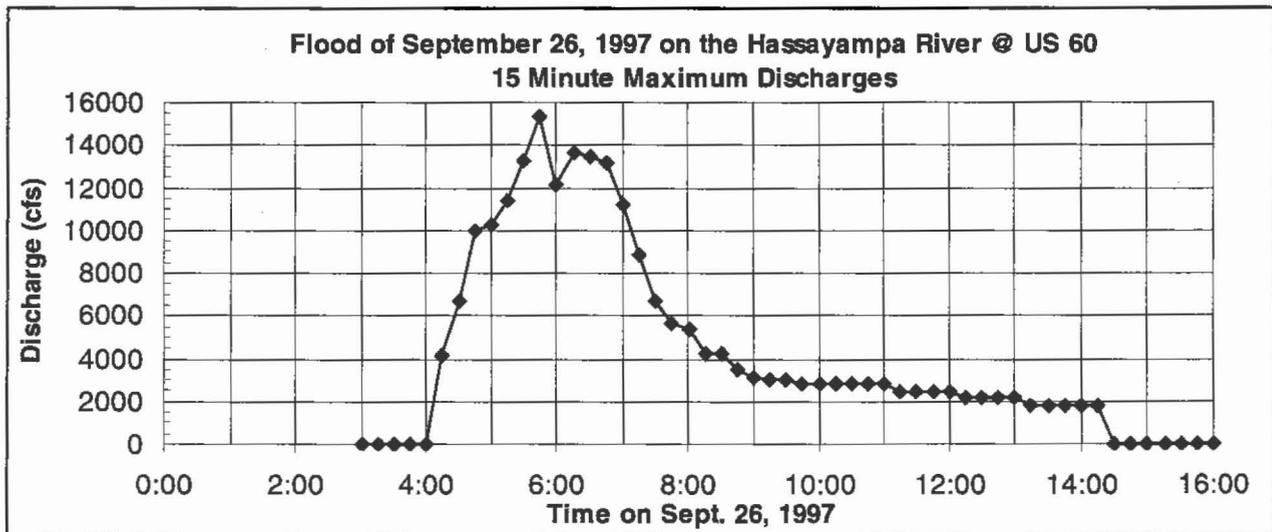
Computation Of Continuous Records Of Streamflow

Station Number: 5228 **Name:** Hassayampa @ US 60
Drainage Area: 711 mi²
Period of Record: 03/14/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**
 Sept. 26 15,376

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
26												2181
TOTAL	0	0	0	0	0	0	0	0	0	0	0	2181
MEAN	0	0	0	0	0	0	0	0	0	0	0	73
MAX	0	0	0	0	0	0	0	0	0	0	17	15376
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	4326
WTR YR 1997 TOTAL			2181	MEAN	6	MAX	15376	MIN	0	AC_FT	4327	



Note: This gage location is a wide mobile sand bed channel. Therefore, data reliability is considered poor. See also gage 5308 upstream and USGS gage Hassayampa River near Morristown, 09516500, downstream for additional data and comparative flood flow frequency for this site.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5233 **Name:** Sunset FRS
Drainage Area: 0.95 mi² (from Wickenburg ADMS)
Period of Record: 02/12/89 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997 assuming outlet gate fully open:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Feb. 28	14	Aug. 9	14
Sept. 5	18	Sept. 26	43

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1						13						
2						12						
3						12	7					
4						11	11					
5						11	10				4	2
6						10	9				12	17
7						9	6				11	16
8						3					11	15
9											14	15
10											12	14
11											12	14
12											11	13
13				11							10	13
14				12							10	12
15				11							9	11
16				11							6	3
17				10								
18				7								
19				2								
20												
21												
22												
23												7
24												9
25												9
26						2						33
27						8						27
28						14						25
29												24
30												23
31												

TOTAL	0	0	0	64	24	81	44	0	0	0	122	298
MEAN	0	0	0	2	1	3	1	0	0	0	4	10
MAX	0	0	0	12	14	13	11	0	0	0	14	43
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	126	48	160	87	0	0	0	242	591

WTR YR 1997	TOTAL	632	MEAN	2	MAX	43	MIN	0	AC_FT	1254		

Note: Outflow based on assumption that the outlet gate is fully open. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5248 **Name:** Sunnycove FRS
Drainage Area: 0.98 mi² (from Wickenburg ADMS)
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997 assuming outlet gate fully open:

Day **Peak Discharge (cfs)**

Sept. 26 44*

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5											1	2
6												19
7												18
8												18
9												18
10												18
11												18
12												18
13												17
14												15
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												4
26												39
27												10
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	1	214
MEAN	0	0	0	0	0	0	0	0	0	0	0	7
MAX	0	0	0	0	0	0	0	0	0	0	18	44*
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	2	424

WTR YR 1997 TOTAL 215 MEAN 1 MAX 44* MIN 0 AC_FT 426

Note: Outflow based on assumption that the outlet gate is fully open. See also Pool Level and Storage Volume Data.

* Maximum based on high water marks for 9/26/97 event. Due to gage failure during this event, mean values should be considered estimates.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5283 **Name:** Hassayampa R @ I-10
Drainage Area: approximately 1,450 mi²
Period of Record: 11/09/94 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 26 7,440*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	7440*
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997 TOTAL 14797 MEAN 41 MAX 7440 MIN 0 AC_FT 29349

* Peak flow estimated from high water marks. Gage failed to operate during multiple events in August and September 1997. Therefore, no volumes or mean values are reported. See also USGS gages, 09517000, Hassayampa River near Arlington, 09516500, Hassayampa River near Morristown, and 09516800, Jackrabbit Wash near Tonapah, for additional data on volumes and August and September 1997 peak flows.

Note: This location has a mobile sand bed with multiple channels. Therefore, data reliability should be considered poor.

Flood Flow Frequency (from R.W. Cruff analysis of 1995 based on shape of Hassayampa near Arlington relation)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
2,500	8,000	15,000	32,000	51,000	75,000

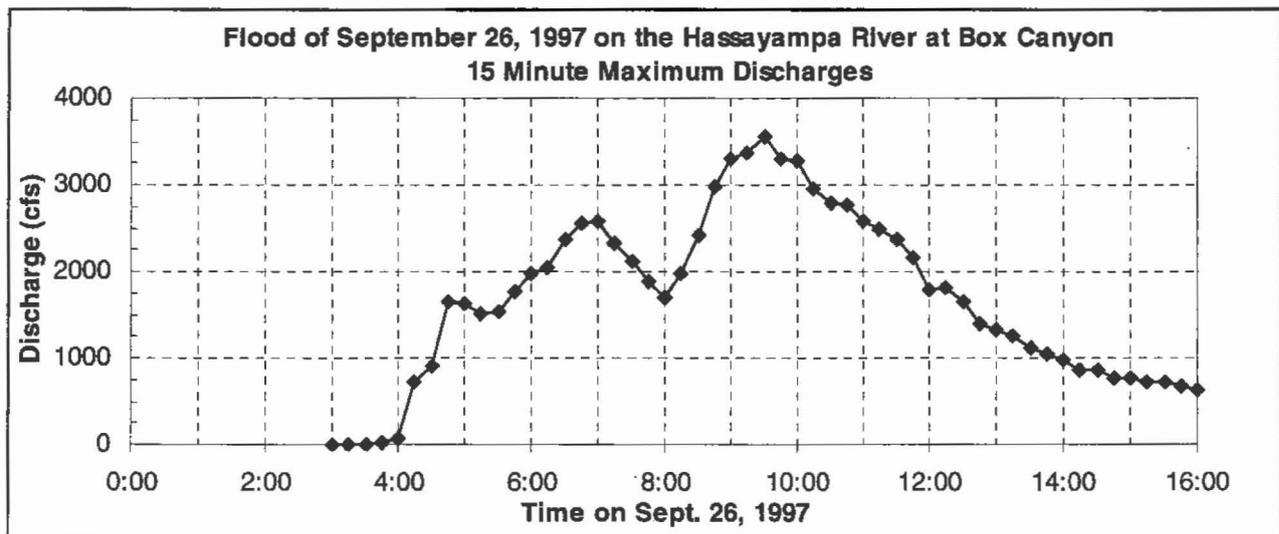
Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5308 **Name:** Hassy @ Box Canyon
Drainage Area: 416 mi²
Period of Record: USGS ID# 09515500 -- 1925, 1927, 1937, 1938 (annual peaks only); 1946-1982; FCDMC -- Nov. 1987 to current year
Revised Records: WY1996: WY1994-95. WY1997: WY1996
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	525*	Jan. 27	158
Feb. 28	453	Sept. 26	3,549*

* From high water marks in stilling well.



Flood Flow Frequency (based on HECWRC implementation of Bulletin 17B, n = 46)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
4,020	12,200	21,200	32,900	53,000	72,200

Continued on following page.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5308 **Name:** Hassy @ Box Canyon (cont.)
Drainage Area: 416 mi²
Period of Record: USGS ID# 09515500 -- 1925, 1927, 1937, 1938 (annual peaks only); 1946-1982; FCDMC -- Nov. 1987 to current year
Revised Records: WY1996: WY1994-95. WY1997: WY1996
Discharge, in cfs, Water Year October 1996 to September 1997

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	2	2	3	5	63						
2	5	2	2	3	5	30						
3	5	4	3	3	5	21	5					
4	5	2	3	2	5	15	14					
5	6	2	2	2	5	11	23					
6	5	2	3	1	5	12	19					
7	5	2	2	2	5	11	13					
8	3	2	3	1	5	11	9					
9	3	2	2	1	5	12	9					
10	3	2	2	1	5	11	8					
11	3	2	2	1	5	10	8					7
12	3	2	1	1	5	10	8					7
13	3	2	1	45	5	9	7					
14	4	2	1	175	5	9	6					
15	2	3	1	123	5	8	6					
16	3	3	1	123	4	7	5					
17	3	2	1	74	4	6	5					
18	2	3	1	6	4	6	5					
19	2	5	1	6	4	6	4					
20	2	4	2	6	4	5						
21	2	3	3	6	4	5						
22	2	2	3	5	4	5						
23	2	2	4	5	4	5						
24	2	2	3	5	4	5						
25	2	2	5	5	4	5						1
26	3	2	4	6	4	5					1002	
27	2	2	5	114	4	4					64	
28	2	2	4	82	133	4						
29	2	2	3	18		4						
30	2	2	3	7		4						
31	2		3	6							1	
TOTAL	89	68	74	838	257	321	156	0	0	0	1	1081
MEAN	3	2	2	27	9	10	5	0	0	0	0	36
MAX	6	5	6	525*	453	80	24	0	0	0	6	3549*
MIN	2	2	1	1	4	0	0	0	0	0	0	0
AC_FT	177	135	146	1662	510	636	310	0	0	0	1	2144
WTR YR 1997	TOTAL	2885	MEAN	8	MAX	3549*	MIN	0	AC_FT	5722		

* From high water marks in stilling well.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5308 **Name:** Hassy @ Box Canyon
Drainage Area: 416 mi²
Period of Record: USGS ID# 09515500 -- 1925, 1927, 1937, 1938 (annual peaks only); 1946-1982; FCDMC -- Nov. 1987 to current year
Revised Records: WY1996: WY1994-95. WY1997: WY1996
 Discharge, in cfs, Water Year October 1995 to September 1996 -- REVISED

Peak flows of interest during Water Year 1996:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
July 25	7,548	Aug. 19	192
Sept. 5	256	Sept. 7	164

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1											6	28
2											6	8
3											5	5
4											5	4
5											5	68
6											5	43
7											5	95
8											5	8
9											5	7
10											5	7
11											5	7
12											5	7
13											5	7
14											5	6
15											5	6
16											5	6
17											5	6
18											5	6
19											48	5
20											6	6
21											5	6
22											5	5
23											5	6
24											5	5
25										230	5	5
26										23	5	5
27										6	5	5
28										6	5	5
29										6	5	5
30										6	5	5
31										6	5	

TOTAL	0	0	5	8	7	8	8	8	8	288	192	398
MEAN	0	0	0	0	0	0	0	0	0	9	6	13
MAX	0	0	0	0	0	0	0	0	0	7548	192	256
MIN	0	0	0	0	0	0	0	0	0	0	5	3
AC_FT	0	0	10	16	15	16	15	16	15	571	380	789

WTR YR 1996	TOTAL	928	MEAN	3	MAX	7548	MIN	0	AC_FT	1841		

WY 1996 revision based on reevaluation of elevation of instrument diaphragm.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5353 **Name:** Hassy @ Wagoner Rd

Drainage Area: 78 mi²

Period of Record: 09/26/91 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Feb. 27	70	Aug. 30	109
Sept. 26	214		

Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					1	45	9	12	11	18		6
2					1	33	14	11	11	18		7
3					1	33	17	12	11	18		5
4					1	31	20	12	11	18		2
5					1	25	14	12	11	18		2
6					1	23	7	12	12	18		1
7					1	25	5	12	12	19	4	1
8				1	1	24	3	12	12	20	2	1
9				2	2	20	5	12	12	20		8
10				2	1	17	10	12	12	20		4
11				2	1	18	10	12	12	20		3
12				1	1	19	11	12	12	20		4
13				8		15	11	12	13	20	1	3
14				3	1	19	11	12	14	17	1	3
15				2	1	18	11	12	14	17	1	3
16				2	1	17	11	12	16	7	2	4
17				2	1	14	11	11	16		2	4
18				2	1	8	11	12	16		3	6
19				2	1	7	11	11	16		3	8
20				1	1	7	12	13	16		3	8
21				2	1	7	12	14	16		2	7
22				1	1	8	12	12	16		2	8
23				2	1	10	14	12	17		2	10
24				2	1	10	14	12	18		2	10
25				1	1	8	14	12	18		3	17
26				2	4	7	11	12	17		5	125
27				3	35	8	11	12	18		6	32
28				2	67	8	11	11	18		7	17
29				2		7	11	12	18		8	15
30				2		6	12	12	18		19	14
31				1		6		11			9	

TOTAL	0	0	0	50	133	503	331	368	431	288	86	334
MEAN	0	0	0	2	5	16	11	12	14	9	3	11
MAX	0	0	0	20	70	49	20	20	18	20	109	214
MIN	0	0	0	0	0	1	1	11	11	0	0	0
AC_FT	0	0	0	100	265	999	657	730	856	571	170	663

WTR YR 1997	TOTAL	2526	MEAN	7	MAX	214	MIN	0	AC_FT	5011		

Note: The pressure transducer at this location is often buried by sand and separated from the normal low base flow. Typically this base flow is on the order of 1-2 cfs. However, with the instrument under wet sand due to the high water table it frequently reads a high for low stages. Therefore, the mean daily flows shown here may be overreported for many days.

Flood Flow Frequency					
(based on HECWRC implementation of Bulletin 17B, n = 12)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
595	1,590	2,580	3,780	5,730	7,490

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5403 **Name:** Agua Fria @ Buckeye
Drainage Area: 2241 mi², 1459 mi² controlled by New Waddell Dam, 191 mi² by Cave Buttes Dam, 90 mi² by Adobe Dam, and 164 mi² by New River Dam, 247 mi² by McMicken Dam

Period of Record: 10/12/88 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Day Peak flows of interest occurred on following day during Water Year 1997:
Peak Discharge (cfs)

Sept. 11 856

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												122
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	122
MEAN	0	0	0	0	0	0	0	0	0	0	0	4
MAX	0	0	0	0	0	39	0	0	0	0	0	856
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	242
WTR YR 1997	TOTAL	122	MEAN	0	MAX	856	MIN	0	AC_FT	242		

Note: Severe drop due to rocks along the downstream side of the Buckeye Road bridge as well as two channels for lower flows introduce considerable error into the rating for flows less than about 3,500 cfs. The multiple channels also mean some lower flows are missed by the gage.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5408 **Name:** Colter @ El Mirage

Drainage Area: 3.48 mi²

Period of Record: 06/29/94 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

No flow occurred during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0		MEAN	0		MAX	0		MIN	0	

Flood Flow Frequency (HEC-1 for Colter Channel Design Analysis)	
Magnitude and Probability of Instantaneous Peak Flow	
Discharge, in cfs, for Indicated Recurrence Interval	
	100-year
	1,040

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5413 **Name:** Dysart Drain @ LAFB
Drainage Area: 52 mi²
Period of Record: 08/22/96 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	10	Feb. 27	26

<u>DAY</u>	<u>Daily Mean Values</u>											
	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1									2			
2									2	1		
3									1			
4									2			
5				1	1			1	1	1		
6								1	1			
7				1				1	1	1		
8				5	2				1			
9				4	1				1	1		
10				2					1			
11				1	1				1	2		
12									1	1		
13				2					1			
14												
15				1	1							
16												
17					1							
18					1			1				
19					1			1				
20					2			1				
21								1				
22					1							
23					1							
24								1				
25								1				
26							1	2				
27					6							
28					6			1				
29								1				
30								1	1			
31												
TOTAL	0	0	0	20	29	0	7	20	17	7	0	0
MEAN	0	0	0	1	1	0	0	1	1	0	0	0
MAX	0	0	0	10	26	0	1	5	3	2	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	40	57	1	14	39	33	14	0	0
WTR YR 1997	TOTAL		99	MEAN	0	MAX	26	MIN	0	AC_FT	197	

Note: Many days of positive mean daily flows due to irrigation tailwater.

Flood Flow Frequency (HEC-1 for White Tanks ADMS modified for Dysart Channel Design Analysis)
Magnitude and Probability of Instantaneous Peak Flow
Discharge, in cfs, for Indicated Recurrence Interval
100-year
2,340

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5418 **Name:** White Tanks #3 FRS
Drainage Area: 20.5 mi² (White Tanks ADMS)
Period of Record: Nov. 1987 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No outflow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	
MAX	0	0	0	0	0	0	0	0	0	0	0	0	
MIN	0	0	0	0	0	0	0	0	0	0	0	0	
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0	
WTR YR 1997 TOTAL			0	MEAN			0	MAX		0	MIN		0
										AC_FT	0		

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5423 **Name:** Dysart Chnl@ El Mir
Drainage Area: 58.2 mi²
Period of Record: 06/23/94 to 12/26/95;03/07/97 to current year.*
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow since date of installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	---	---	---	---	---	0	0	0	0	0	0	0		
MEAN	---	---	---	---	---	0	0	0	0	0	0	0		
MAX	---	---	---	---	---	0	0	0	0	0	0	0		
MIN	---	---	---	---	---	0	0	0	0	0	0	0		
AC_FT	---	---	---	---	---	0	0	0	0	0	0	0		
WTR YR 1997	TOTAL		0	MEAN		0	MAX		0	MIN		0	AC_FT	0

* Gage reinstalled 03/07/1997 on new Dysart Channel. Previously on old Dysart Drain about 1,000 feet upstream of El Mirage Road.

Flood Flow Frequency	
(HEC-1 for White Tanks ADMS modified for Dysart Channel Design Analysis)	
Magnitude and Probability of Instantaneous Peak Flow	
Discharge, in cfs, for Indicated Recurrence Interval	
	100-year
	4,020

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5438 **Name:** McMicken Floodway
Drainage Area: approximately 305 mi²
Period of Record: 09/03/92 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No flow except on following day during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>													
Sept. 25	6													
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	4		
MEAN	0	0	0	0	0	0	0	0	0	0	0	0		
MAX	0	0	0	0	0	0	0	0	0	0	0	6		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	0	8		
WTR YR 1997	TOTAL	4		MEAN	0		MAX	6		MIN	0		AC_FT	8

Note: Flows during Water Year 1997 generated below McMicken Dam. No outflow occurred from McMicken Dam into the floodway during Water Year 1997. See also gage ID# 5448.

Flood Flow Frequency		
(FEMA 9/95, "at confluence with McMicken Dam")		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
2,610	4,280	5,090

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5448 **Name:** McMicken Dam
Drainage Area: 247 mi²
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No outflow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0					
MEAN	0	0	0	0	0	0	0	0	0	0	0	0					
MAX	0	0	0	0	0	0	0	0	0	0	0	0					
MIN	0	0	0	0	0	0	0	0	0	0	0	0					
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0					
WTR YR 1997 TOTAL			0	MEAN			0	MAX			0	MIN		0	AC_FT		0

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 5503 **Name:** Agua Fria @ Grand

USGS Gage: Agua Fria at El Mirage, ID# 09513650

Drainage Area: 1,628 mi² of which 1,433 mi² is controlled by New Waddel Dam

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 5508 **Name:** NewRiver @ Glendale

USGS Gage: New River near Glendale, AZ, ID# 09513910

Drainage Area: 600 mi² of which 191 mi² is controlled by Cave Buttes Dam, 164 mi² by New River Dam, and 90 mi² by Adobe Dam

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5523 **Name:** ACDC @ 67 Av
Drainage Area: 86 mi² at confluence with Skunk Creek
Period of Record: 06/07/90 to current year
Revised Records: WY1996: WY1994-95.
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	180	Feb. 27	390
Sept. 11	939		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1	3					108						
2	1					55	3					
3			2	2		8	11				24	
4				13			14					
5				5			1					
6												8
7							1		1			
8	5								2			
9	6										23	
10	2											
11												278
12			4									90
13				87								14
14	1	4		24								7
15	8	3		53					2			
16	3			33								
17		5		14								
18				10								
19				6								
20												
21												
22		4								2		
23		3										
24		5										
25		5										
26			10	2	3							
27			6	5	56							
28			5		197							
29											3	
30											5	
31												
TOTAL	29	30	27	255	256	171	30	0	5	2	55	397
MEAN	1	1	1	8	9	6	1	0	0	0	2	13
MAX	8	21	21	180	390	120	27	0	11	9	88	939
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	58	60	53	506	507	340	60	0	10	4	110	787
WTR YR 1997	TOTAL	1258	MEAN	3	MAX	939	MIN	0	AC_FT	2495		

Flood Flow Frequency					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
1,900	4,500	7,700	13,500	20,600	29,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5538 **Name:** Adobe Dam Outlet
Drainage Area: 89.6 mi² at Adobe Dam
Period of Record: Nov. 1987 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	31	Sept. 12	33

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												1
12												10
13												
14				13								
15				7								
16				1								
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	0	0	22	0	0	0	0	0	0	0	12
MEAN	0	0	0	1	0	0	0	0	0	0	0	0
MAX	0	0	0	31	0	0	0	0	0	0	0	33
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	44	0	0	0	0	0	0	0	23

WTR YR 1997	TOTAL		34	MEAN	0	MAX	33	MIN	0	AC_FT	67	

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5543 **Name:** Scatter Wash
Drainage Area: 18.1 mi²
Period of Record: 09/18/96 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow except on following day during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 11 87*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	87*
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL	30	MEAN	0	MAX	87	MIN	0	AC_FT	59		

* Maximum discharge from high water marks. Gage failed to operate during event due to instrument failure. Therefore, no daily mean flow or volume is given for September 1997.

Flood Flow Frequency
(Channel Design Analysis)
Magnitude and Probability of Instantaneous Peak Flow
Discharge, in cfs, for Indicated Recurrence Interval
100-year
6,100

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 5568 **Name:** Skunk Creek @ I-17

USGS Gage: Skunk Creek near Phoenix, AZ, ID# 09513860

Drainage Area: 64.9 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (based on HECWRC implementation of Bulletin 17B, n = 38, station skew used based on examination of observed data plots)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
1,070	3,960	7,100	11,000	17,300	22,800

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5583 **Name:** Skunk Cr. nr New R.
Drainage Area: approximately 4 mi²
Period of Record: 06/21/95 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	91	Jan. 26	56
Sept. 11	109		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												4
12												
13				3								
14				1								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26				2								
27				1								
28												
29												
30												
31												
TOTAL	0	0	0	7	0	0	0	0	0	0	0	4
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	91	0	0	0	0	0	0	0	109
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	13	0	0	0	0	0	0	0	7
WTR YR 1997	TOTAL	10	MEAN	0	MAX	109	MIN	0	AC_FT	20		

Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
1,730	2,500	3,650

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5598 **Name:** New River @ Bell
Drainage Area: 185 mi² of which 164 mi² are controlled by New River Dam
Period of Record: 04/04/90 to current year*
Revised Records: WY1996: WY1995
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow occurred during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC_FT	0		

* USGS period of record: water years 1963, 1965-67 (annual maximums only), 1968-1984, June 1990-Sept. 1993. Also, FCDMC gage out from 10/01/93 to 05/12/94 during construction of new bridge.

Flood Flow Frequency (based on R. W. Cruff analysis, 1995)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
1,920	6,510	11,700	21,200	30,500	41,800

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5613 **Name:** New River Outlet

Drainage Area: 164 mi² at New River Dam

Period of Record: Nov. 1987 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC_FT	0		

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5968 **Name:** StoneRidge Dam
Drainage Area: 0.86 mi²
Period of Record: 12/11/96 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13				3								
14				3								
15				1								
16				1								
17												
18												
19												
20												
21												
22												
23												
24												
25												
26					2							
27												
28												
29												
30												
31												
TOTAL	---	---	0	8	2	0	0	0	0	0	0	0
MEAN	---	---	0	0	0	0	0	0	0	0	0	0
MAX	---	---	0	4	4	0	0	0	0	0	5	5
MIN	---	---	0	0	0	0	0	0	0	0	0	0
AC_FT	---	---	0	16	4	0	0	0	0	0	0	0
WTR YR 1997	TOTAL		10	MEAN	0	MAX	5	MIN	0	AC_FT	20	

Note: Gage installed on 12/11/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5973 **Name:** SunRidge Canyon Dam

Drainage Area: 1.6 mi²

Period of Record: 02/04/97 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Aug. 3 18

Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3											12	
4											6	
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	---	---	---	---	0	0	0	0	0	0	18	0
MEAN	---	---	---	---	0	0	0	0	0	0	1	0
MAX	---	---	---	---	0	0	0	0	0	0	18	0
MIN	---	---	---	---	0	0	0	0	0	0	0	0
AC_FT	---	---	---	---	0	0	0	0	0	0	36	0

WTR YR 1997	TOTAL		18	MEAN	0	MAX	18	MIN	0	AC_FT	36	

Note: Gage installed on 02/04/1997.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 5978 **Name:** GoldenEaglePark Dam
Drainage Area: 7.13 mi² of which 2.02 mi², 2.13 mi², and 1.6 mi² are controlled by Aspen, North Heights, and Sunridge Canyon Dams respectively
Period of Record: 12/12/96 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows above 1 foot gage height during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	29	Aug. 26	33
Sept. 11	41		

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3						5					1	
4												
5												
6												
7												
8											2	
9												
10												
11												5
12												1
13				5								
14				9								
15				5								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26				1							3	
27				4	6							
28					8							
29												
30												
31												

TOTAL	---	---	0	24	14	5	0	0	0	0	6	6
MEAN	---	---	0	1	1	0	0	0	0	0	0	0
MAX	---	---	0	29	24	10	0	0	0	0	33	41
MIN	---	---	0	0	0	0	0	0	0	0	0	0
AC_FT	---	---	0	47	28	10	0	0	0	0	11	12

WTR YR 1997	TOTAL		55	MEAN	0	MAX	41	MIN	0	AC_FT	109	

Note: Gage installed on 12/12/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5983 **Name:** North Heights Dam
Drainage Area: 2.13 mi²
Period of Record: 10/11/96 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Feb. 27	11	Sept. 11	14

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												3
4												2
5												2
6												
7												
8												
9											3	
10												
11												1
12												2
13				3								
14				2								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27					1						2	
28												
29												
30												
31												

TOTAL	0	0	0	5	1	0	0	0	0	0	11	2
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	5	11	0	0	0	0	0	4	14
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	9	3	0	0	0	0	0	21	5

WTR YR 1997	TOTAL	19	MEAN	0	MAX	14	MIN	0	AC_FT	38		

Note: Gage installed on 10/11/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5988 **Name:** Aspen Dam
Drainage Area: 2.02 mi²
Period of Record: 01/02/97 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 11 13

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4							1					
5												
6												
7												
8												
9												
10												
11												1
12												
13				4								
14				3								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27					2							
28					2							
29												
30												
31												
TOTAL	---	---	---	7	4	0	1	0	0	0	0	1
MEAN	---	---	---	0	0	0	0	0	0	0	0	0
MAX	---	---	---	6	6	0	2	0	0	0	0	13
MIN	---	---	---	0	0	0	0	0	0	0	0	0
AC_FT	---	---	---	14	7	0	2	0	0	0	0	3
WTR YR 1997	TOTAL		13	MEAN	0	MAX	13	MIN	0	AC_FT		26

Note: Gage installed on 01/02/1997.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 5993 **Name:** Hesperus Dam

Drainage Area: 2.91 mi²

Period of Record: 12/18/96 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

DAY	Daily Mean Values												
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1													
2													
3							5						
4							1						
5													
6													
7													
8													
9													
10													
11													
12													
13													
14				2									
15				4									
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27					4								
28					9								
29													
30													
31													
TOTAL	---	---	0	6	12	0	6	0	0	0	0	0	
MEAN	---	---	0	0	0	0	0	0	0	0	0	0	
MAX	---	---	0	12	12	0	12	0	0	0	0	0	
MIN	---	---	0	0	0	0	0	0	0	0	0	0	
AC_FT	---	---	0	12	24	0	12	0	0	0	0	0	
WTR YR 1997	TOTAL		24	MEAN		0	MAX	12	MIN		0	AC_FT	48

Note: Gage installed on 12/18/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6503 **Name:** Guadalupe FRS

Drainage Area: 1.87 mi²

Period of Record: 06/29/89 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0		MEAN	0		MAX	0		MIN	0	

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6563 **Name:** South Mountain Fan
Drainage Area: 1.98 mi²
Period of Record: 06/09/93 to current year
Revised Records: WY1996: WY1995
Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997:

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0		MEAN	0		MAX	0		MIN	0	

Flood Flow Frequency (based on HEC-1 analysis, 1997)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
300	650	990	1,500	2,000	2,400

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6573 **Name:** EMF @ Broadway

Period of Record: 08/10/89 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	0	0	0	0	0	0	0	0	0	0	0	0		
MAX	0	0	0	0	0	0	0	0	0	0	0	0		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0		
WTR YR 1997	TOTAL		0	MEAN		0	MAX		0	MIN		0	AC_FT	0

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6583 **Name:** EMF @ Queen Creek

Period of Record: 01/18/89 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Only peak flows during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 14	8	Aug. 8	4

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14				6								
15				4								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	0	0	10	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	8	0	0	0	0	0	0	4	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	20	0	0	0	0	0	0	1	0

WTR YR 1997	TOTAL		10	MEAN	0	MAX	8	MIN	0	AC_FT	21	

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6598 **Name:** EMF @ Arizona Ave.
Period of Record: 02/10/89 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No flows during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL		0	MEAN	0	MAX	0	MIN	0	AC_FT	0	

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 6628 **Name:** Signal Butte FRS
Drainage Area: 16.4 mi² not including area from Apache Junction FRS
Period of Record: 11/10/87 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No outflow during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL		0	MEAN	0	MAX	0	MIN	0	AC_FT	0	

* No outflow through the principle outlet. However, some impoundment was experienced during Water Year 1997. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6673 **Name:** Apache Jct. FRS
Drainage Area: 5.8 mi²
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	10

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13				3								
14				2								
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	0	0	4	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	10	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	9	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL		4	MEAN	0	MAX	10	MIN	0	AC_FT	9	

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6683 **Name:** Powerline FRS
Drainage Area: 49.9 mi²
Period of Record: 12/03/92 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Nov. 23	2	Jan. 13	3
Feb. 28	3		

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13				1								
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28					1							
29												
30												
31												
TOTAL	0	0	0	1	1	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	2	0	3	3	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	1	2	0	0	0	0	0	0	0
WTR YR 1997	TOTAL		2	MEAN	0	MAX	3	MIN	0	AC_FT	4	

Note: Outflows from Vineyard FRS backup through the Powerline outlet pipe and record on gage. Therefore, some "outflows" may represent backwater from Vineyard FRS outflows. See data for Station 6688. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6688 **Name:** Vineyard FRS
Drainage Area: 57.8 mi²
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Jan. 13 5

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13				2								
14				3								
15				1								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL	0	0	0	6	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	5	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	12	0	0	0	0	0	0	0	0
WTR YR 1997	TOTAL		6	MEAN	0	MAX	5	MIN	0	AC_FT	12	

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6703 **Name:** Rittenhouse FRS

Drainage Area: 51.3 mi²

Period of Record: 09/27/88 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 9	31	Aug. 31	41

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												2
2											3	1
3											3	
4												
5												
6												
7												
8											9	
9											8	
10											1	
11												
12												
13												
14												
15											3	
16											1	
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31											16	

TOTAL	0	0	0	0	0	0	0	0	0	0	42	3
MEAN	0	0	0	0	0	0	0	0	0	0	1	0
MAX	0	0	0	0	0	0	0	0	0	0	41	2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	83	6

WTR YR 1997	TOTAL	45	MEAN	0	MAX	41	MIN	0	AC_FT	89		

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6707* **Name:** Queen Ck. @ Rittenhouse
Period of Record: 09/14/93 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow above gage during Water Year 1997.
 Minimum flow recorded by gage is about 105 cfs at 1.4 ft gage height.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC_FT	0		

- * Gage ID number changed during Water Year 1997 from 6713 to 6707 to mitigate radio interference problems.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6813 **Name:** Buckeye FRS #3
Drainage Area: 9.3 mi²
Period of Record: 11/23/92 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 8	5	Sept. 1	8

Daily Mean Values												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												1
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

TOTAL	0	0	0	0	0	0	0	0	0	0	0	1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	5	8
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	1	1

WTR YR 1997	TOTAL		1	MEAN	0	MAX	8	MIN	0	AC_FT	2	

Note: Because of local drawdown effects at the gage on the principle outlet, discharges for stages below about 1 foot gage height are approximate. See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 6823 **Name:** White Tanks #4 FRS
Drainage Area: 18.6 mi² (White Tanks ADMS)
Period of Record: Nov. 1987 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

No outflow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	TOTAL	0		MEAN	0		MAX	0		MIN	0	

See also Pool Level and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Streamflow

Station Number: 6853 **Name:** Gila @ Estrella Pky

USGS Gage: Gila River at Estrella Parkway, ID# 09514100

Drainage Area: 45,585 mi²

See *USGS Water-Data Report AZ-97-1* for data for this site.

Flood Flow Frequency (source: Table 2-4 from <i>Study for Modified Roosevelt Dam</i>)				
Magnitude and Probability of Instantaneous Peak Flow				
Discharge, in cfs, for Indicated Recurrence Interval				
5-year	10-year	20-year	50-year	100-year
20,000	50,000	84,000	170,000	217,000

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Streamflow

Station Number: 6893 **Name:** Estrella Fan
Drainage Area: 1.0 mi²
Period of Record: 04/30/93 to current year
Revised Records: WY1997: WY 1996
 Discharge, in cfs, Water Year October 1996 to September 1997

No flow during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	0	0	0	0	0	0	0	0	0	0	0	0		
MAX	0	0	0	0	0	0	0	0	0	0	0	0		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0		

WTR YR 1997	TOTAL	0		MEAN	0		MAX	0		MIN	0		AC_FT	0

Flood Flow Frequency (HEC-1 analysis, 1997)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
310	860	1,280	1,800	2,250	2,710

Station Number: 6893 **Name:** Estrella Fan
Drainage Area: 1.0 mi²
Period of Record: 04/30/93 to current year
 Discharge, in cfs, Water Year October 1995 to September 1996 -- REVISED

Peak flows of interest during Water Year 1996:

Day **Peak Discharge (cfs)**

Sept. 13 10

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	0	0	0	0	0	0	0	0	0	0	0	0		
MAX	0	0	0	0	0	0	0	0	0	0	0	10		
MIN	0	0	0	0	0	0	0	0	0	0	0	0		
AC_FT	0	0	0	0	0	0	0	0	0	0	0	0		

WTR YR 1996	TOTAL	0		MEAN	0		MAX	10		MIN	0		AC_FT	0

Note: Mean daily flow for 09/13/96 rounds to zero acre-feet.

Revised due to computer database error for this sensor during Water Year 1996 which was discovered during Water Year 1997. Previously no flow was reported for 1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6923 **Name:** Sauceda Wash

Drainage Area: 126 mi²

Period of Record: 02/28/90 to current year*

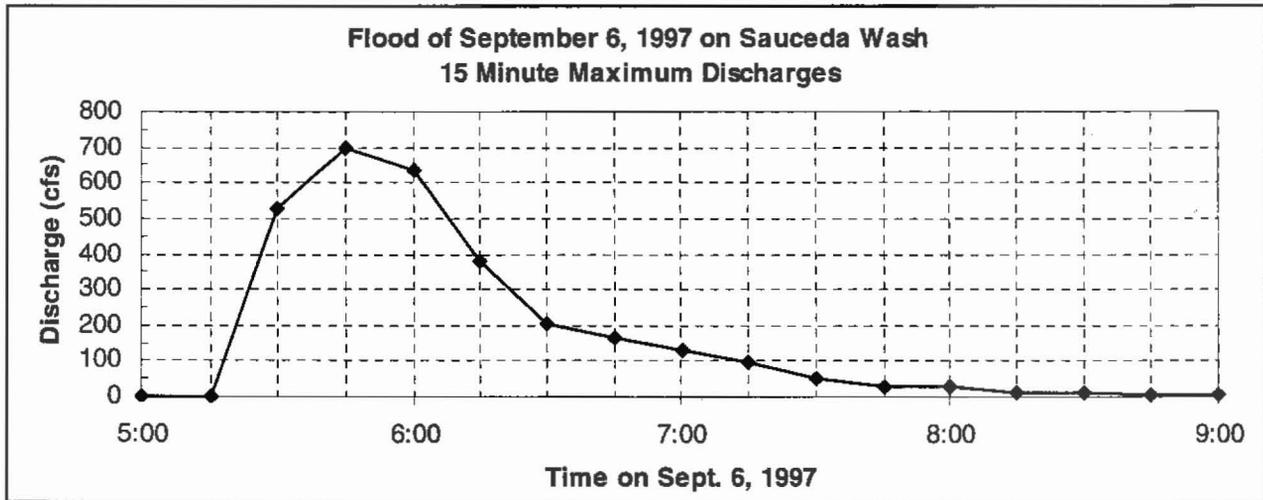
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997.**

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 13	149	Aug. 17	304
Sept. 6	696		

Daily Mean Values												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
6												31
7												3
13				6								
17											18	
18											1	
TOTAL	0	0	0	6	0	0	0	0	0	0	20	34
MEAN	0	0	0	0	0	0	0	0	0	0	1	1
MAX	0	0	0	149	0	0	0	0	0	0	304	696
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	11	0	0	0	0	0	0	39	68

WTR YR 1997	TOTAL		60	MEAN	0	MAX	696	MIN	0	AC_FT	118	



* USGS maintained a crest stage gage at this location from 11/27/63 to 09/30/79. In 1990 a joint USGS/FCDMC continuous station was installed. The USGS continuous station was discontinued 10/01/94. Since Water Year 1995, the continuous station has been operated by FCDMC and the crest stage gage by the USGS.

** See also USGS crest stage gage, 09519760, data for this site.

Flood Flow Frequency					
(based on HECWRC implementation of Bulletin 17B, n = 25, station skew used based on examination of observed data plots)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
530	1,640	2,610	3,640	5,020	6,040

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 6983 **Name:** Vekol Wash
Drainage Area: 150 mi²
Period of Record: USGS ID# 09488650 -- 1990-1996; USGS continuous station discontinued Sept. 1996; FCDMC -- continuous station 03/07/90 to current year*
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:*

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Oct. 14	147	Aug. 17	165

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
6												1
14	18											
17											12	
TOTAL	18	0	0	0	0	0	0	0	0	0	14	1
MEAN	1	0	0	0	0	0	0	0	0	0	0	0
MAX	147	0	0	0	0	0	0	0	0	0	165	4
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	35	0	0	0	0	0	0	0	0	0	27	2

WTR YR 1997	TOTAL	33	MEAN	0	MAX	165	MIN	0	AC_FT	65		

* See also USGS crest stage gage, 09488650, Oct. 1996 to current year.

Flood Flow Frequency					
(based on regional equations for Region 13 as shown in USGS WSP 2433)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
1,600	3,660	5,700	9,030	12,000	15,600

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 7013 **Name:** Martinez Creek
Drainage Area: 109 mi²
Period of Record: 11/23/94 to current year
 Discharge, in cfs, Water Year October 1996 to September 1997

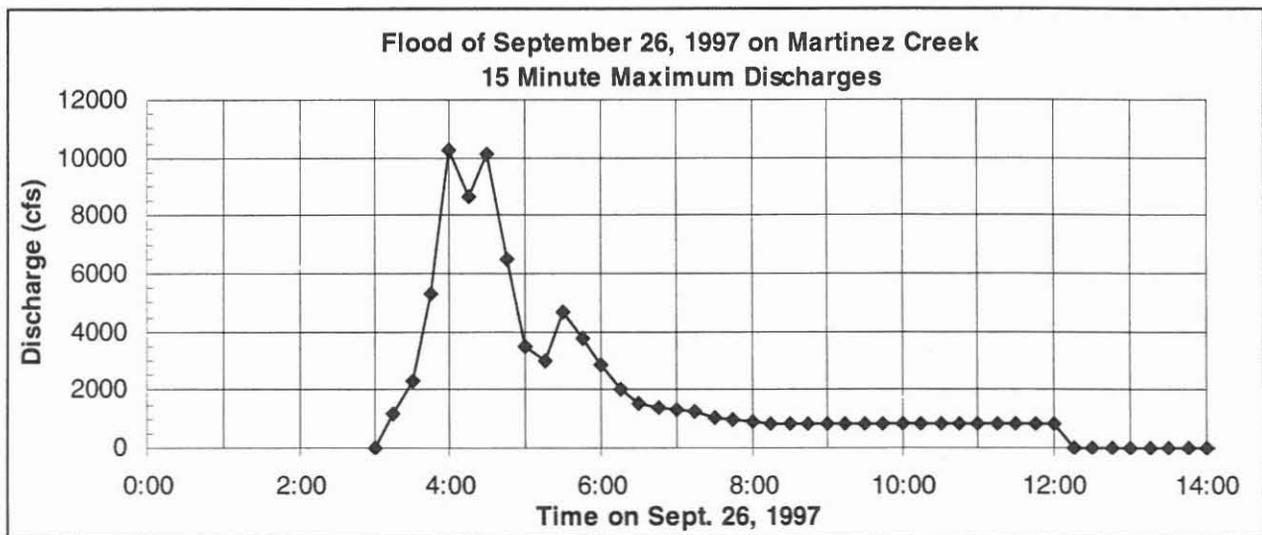
Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Jan. 26	284	Sept. 26	10,272

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
25												8
26				17								718
TOTAL	0	0	0	17	0	0	0	0	0	0	0	726
MEAN	0	0	0	1	0	0	0	0	0	0	0	24
MAX	0	0	0	284	0	0	0	0	0	0	0	10272
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	34	0	0	0	0	0	0	0	1441

WTR YR 1997	TOTAL	744	MEAN	2	MAX	10272	MIN	0	AC_FT	1475		



Note: Flows below 3,000 cfs are considered approximate at best due to multiple channel configuration of Martinez Creek in this area. Even above 3,000 cfs the rating is still considered poor due to the expanding downstream reach, mobile bed conditions, and the angle of attack of flow at the gage.

Flood Flow Frequency					
(based on R. W. Cruff analysis, 1995 combining FEMA, 1994 and Box Canyon relation shape)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
1,520	5,000	9,220	18,000	27,400	32,000

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 7043 **Name:** Sols Wsh nr Matthie
Drainage Area: 121 mi²
Period of Record: 08/04/95 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

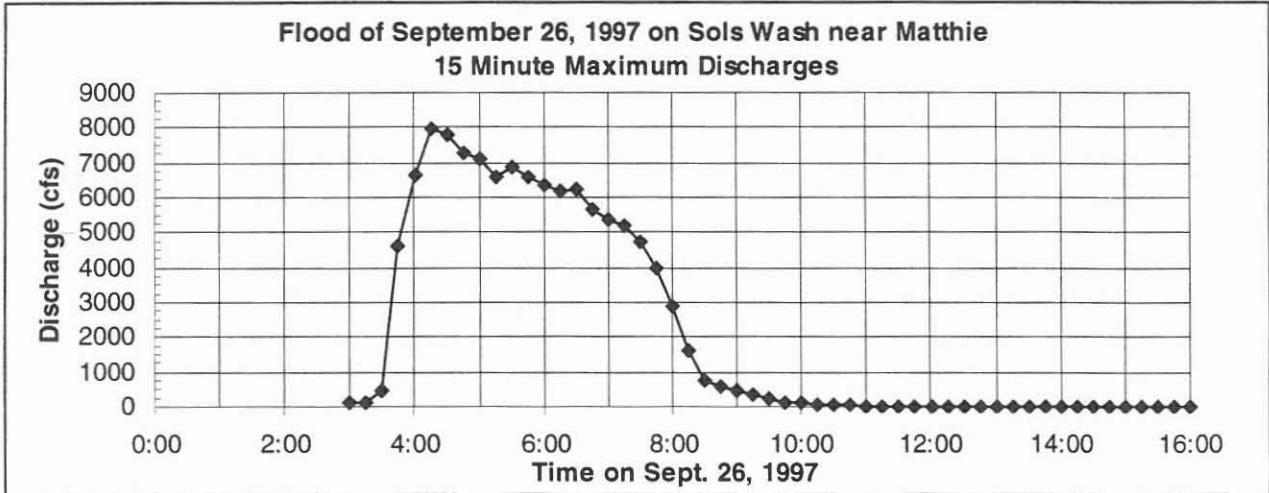
Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 29	52	Sept. 26	7,978

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	
25												18	
26												1108	
27												1	
29											19		
30											3		
TOTAL	0	0	0	0	0	0	0	0	0	0	22	1127	
MEAN	0	0	0	0	0	0	0	0	0	0	1	38	
MAX	0	0	0	0	0	0	0	0	0	0	52	7978	
MIN	0	0	0	0	0	0	0	0	0	0	0	0	
AC_FT	0	0	0	0	0	0	0	0	0	0	44	2236	

WTR YR 1997	TOTAL	1150		MEAN	3		MAX	7978		MIN	0 AC_FT		2280



Flood Flow Frequency (FEMA 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
4,800	9,800	12,250

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

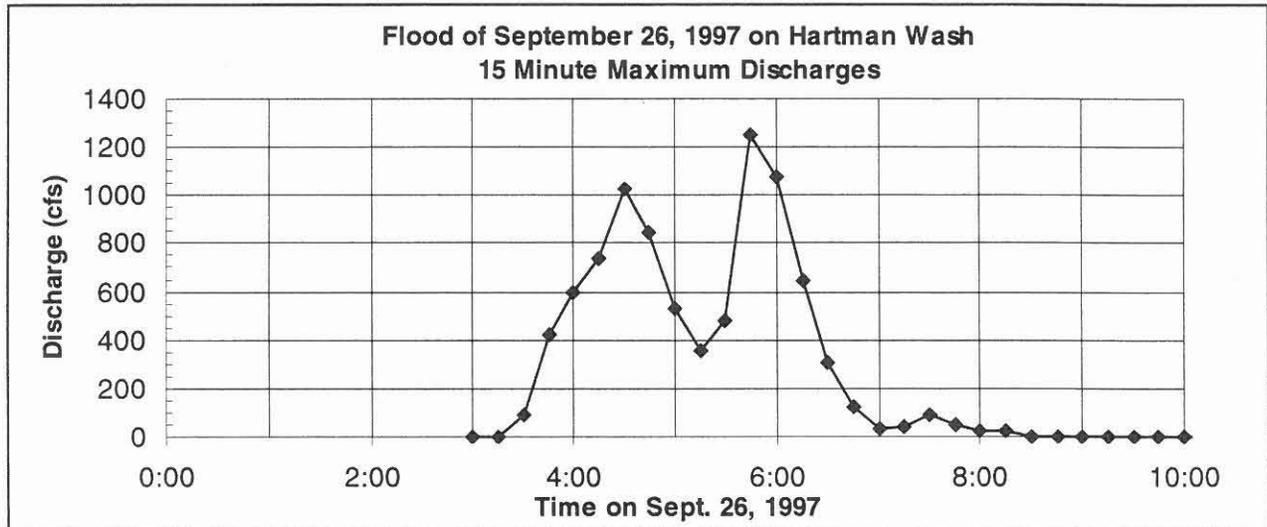
Station Number: 7063 **Name:** Hartman Wash
Drainage Area: 5.4 mi²
Period of Record: 07/06/94 to current year
Revised Records: WY1996: WY1995
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 26 1,253

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
11												2
25												1
26												67
TOTAL	0	0	0	0	0	0	0	0	0	0	0	69
MEAN	0	0	0	0	0	0	0	0	0	0	0	2
MAX	0	0	0	0	0	0	0	0	0	0	0	1253
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	138
WTR YR 1997	TOTAL	69	MEAN	0	MAX	1253	MIN	0	AC_FT	138		



See also USGS crest stage gage, 09515800, data at this location. Period of record for USGS crest gage: Water Years 1964-1979 and 1992 to current year.

Flood Flow Frequency (based on HECWRC implementation of Bulletin 17B, n = 24, station skew used based on examination of observed data plots)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	20-year	50-year	100-year
200	1,020	1,890	2,840	4,110	4,990

Flood Control District Of Maricopa County ALERT System

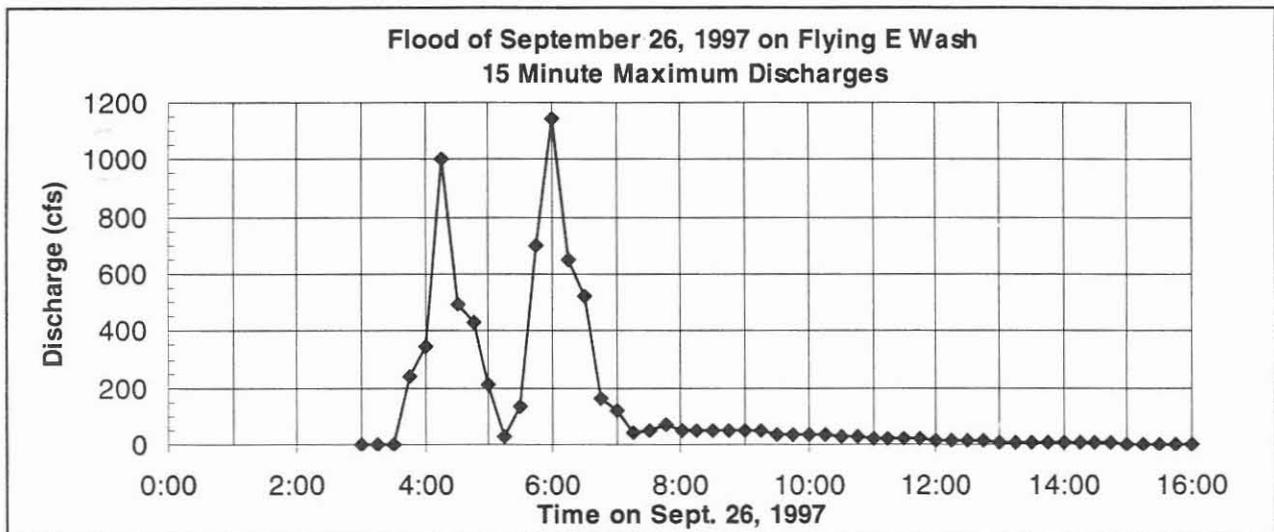
Computation Of Continuous Records Of Streamflow

Station Number: 7083 **Name:** Flying E Wash
Drainage Area: 8.5 mi² (4 mi² partially controlled by 3 stock tanks)
Period of Record: 07/12/94 to present year
Revised Records: WY1996: WY1994-95
Discharge, in cfs, Water Year October 1996 to September 1997

Peak flows of interest during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Aug. 30	260	Sept. 6	92
Sept. 11	37	Sept. 26	1,145

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5												1
6												6
11												1
25												14
26												39
29												2
30											7	
TOTAL	0	0	0	0	0	0	0	0	0	0	7	62
MEAN	0	0	0	0	0	0	0	0	0	0	0	2
MAX	0	0	0	0	0	0	0	0	0	0	260	1145
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	15	124
WTR YR 1997	TOTAL		70	MEAN		0	MAX	1145	MIN	0	AC_FT	138



Flood Flow Frequency (based on Wickenburg ADMS HEC-1 and R. W. Cruff, 1995 graphical extension)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
890	2,200	3,490	4,770	5,860	6,940

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 7093 **Name:** Casandro Wash
Drainage Area: 0.61 mi²
Period of Record: 07/12/94 to current year
Discharge, in cfs, Water Year October 1996 to September 1997

No flow except on following days during Water Year 1997:

<u>Day</u>	<u>Peak Discharge (cfs)</u>	<u>Day</u>	<u>Peak Discharge (cfs)</u>
Sept. 6	19	Sept. 26	177*

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
6												3
26												13
TOTAL	0	0	0	0	0	0	0	0	0	0	0	17
MEAN	0	0	0	0	0	0	0	0	0	0	0	1
MAX	0	0	0	0	0	0	0	0	0	0	0	177*
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	33
WTR YR 1997	TOTAL	17	MEAN	0	MAX	177*	MIN	0	AC_FT	33		

* Estimated from high water marks at the gage.

Flood Flow Frequency (based on FEMA, 9/95 and R. W. Cruff, 1995 graphical extension)					
Magnitude and Probability of Instantaneous Peak Flow					
Discharge, in cfs, for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
5	20	50	200	500	800

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 7113 **Name:** Powder House Wash

Drainage Area: 1.8 mi²

Period of Record: 05/18/95 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

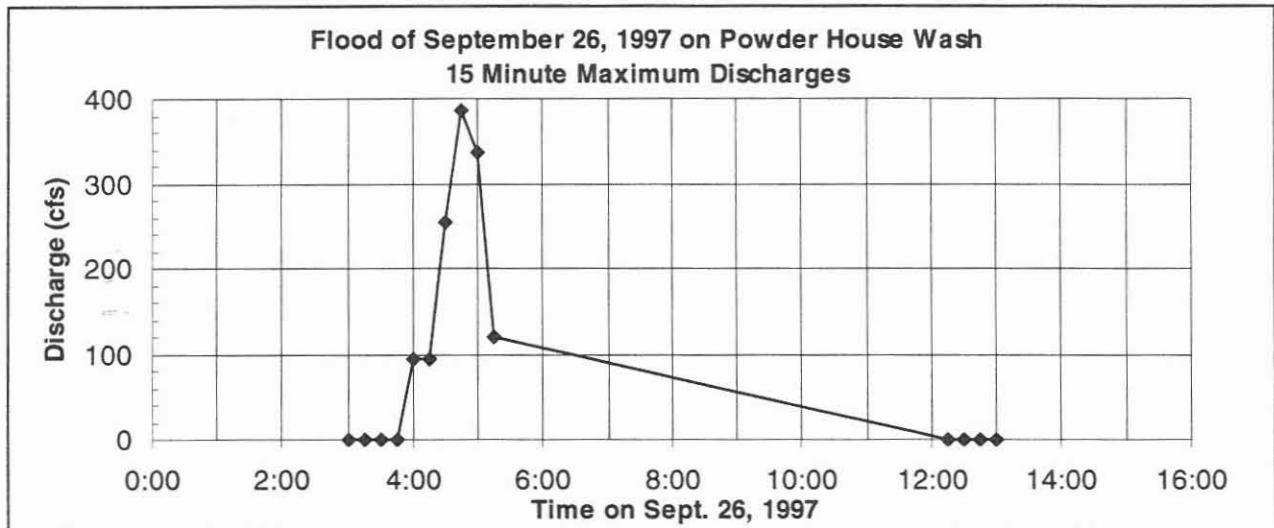
No flow except on following day during Water Year 1997:

Day **Peak Discharge (cfs)**

Sept. 26 387*

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
26												42
TOTAL	0	0	0	0	0	0	0	0	0	0	0	42
MEAN	0	0	0	0	0	0	0	0	0	0	0	1
MAX	0	0	0	0	0	0	0	0	0	0	0	387
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	84
WTR YR 1997	TOTAL	42	MEAN	0	MAX	387	MIN	0	AC_FT	84		

* Estimated from high water marks at gage.



Flood Flow Frequency (FEMA, 9/95)		
Magnitude and Probability of Instantaneous Peak Flow		
Discharge, in cfs, for Indicated Recurrence Interval		
10-year	50-year	100-year
300	1,300	1,900

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Streamflow

Station Number: 7133 **Name:** Casandro Dam

Drainage Area: 1.3 mi²

Period of Record: 08/15/96 to current year

Discharge, in cfs, Water Year October 1996 to September 1997

Peak outflow occurred on the following day during Water Year 1997:

Day Peak Discharge (cfs)

Sept. 26 19

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												1
26												14
27												3
28												
29												
30												
31												
TOTAL	0	0	0	0	0	0	0	0	0	0	0	18
MEAN	0	0	0	0	0	0	0	0	0	0	0	1
MAX	0	0	0	0	0	0	0	0	0	0	0	19
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC_FT	0	0	0	0	0	0	0	0	0	0	0	35
WTR YR 1997	TOTAL		18	MEAN	0	MAX	19	MIN	0	AC_FT		35

See also Pool Level and Storage Volume Data.



Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4563 **Name:** Spookhill FRS

Drainage Area: 13.6 mi²

Period of Record: Nov. 1987 to current year

Depth, in feet, Water Year October 1996 to September 1997

No impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
MAX	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
MIN	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
WTR YR 1997	MEAN	0.59	MAX	0.59	MIN	0.59						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4648 **Name:** E.Fork CC #1
Drainage Area: 1.18 mi²
Period of Record: 03/02/94 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>											
Sept. 11	0.75											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MAX	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8
MIN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WTR YR 1997	MEAN	0.10	MAX	0.75	MIN	0.10						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4658 **Name:** E.Fork CC #4

Drainage Area: 0.68 mi²

Period of Record: 01/18/94 to current year

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 13	1.38	Feb. 27	1.45
Aug. 3	1.05	Sept. 11	2.40

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0
4	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
13	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.6	0.0	0.0	1.4	1.5	0.0	0.7	0.0	0.0	0.0	1.0	2.4
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WTR YR 1997 MEAN 0.01 MAX 2.40 MIN 0.00

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4683 **Name:** E.Fork CC #3
Drainage Area: 3.52 mi² (1.86 mi² controlled by EFCC #1 and EFCC #4)
Period of Record: 09/13/94 to current year
Depth, in feet, Water Year October 1996 to September 1997

Impoundment occurred on following day during Water Year 1997:*

<u>Day</u>	<u>Maximum Level (ft)</u>											
Sept. 11	0.45											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MAX	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
MIN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
WTR YR 1997	MEAN	0.15	MAX	0.45	MIN	0.15						

* Flows up to about the 2-year are passed beneath the detention basin via storm drains. Also, the 9/11/97 event appears to have been caused by local flow from the area immediate to the gage.

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4803 **Name:** Dreamy Draw Dam
Period of Record: Nov. 1987 to current year
Revised Records: WY1996: WY1995
Drainage Area: 1.3 mi²
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Feb. 28	0.39	Sept. 11	1.66

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
<hr/>												
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<hr/>												
WTR YR 1997	MEAN	0.00	MAX	1.66	MIN	0.00						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4818 **Name:** 10 St.Wash Basin #1

Period of Record: 11/26/96 to current year

Depth, in feet, Water Year October 1996 to September 1997

Impoundment occurred on following days during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 13	0.50	Feb. 27	0.73
Apr. 3	0.60	Sept. 11	1.63

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
MEAN	---	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MAX	---	0.3	0.3	0.5	0.7	0.3	0.6	0.3	0.3	0.3	0.3	1.6
MIN	---	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

WTR YR 1997	MEAN	0.30	MAX	1.63	MIN	0.30
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Note: Gage installed 11/26/96.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 4904 **Name:** Cave Buttes Dam
Period of Record: Nov. 1987 to current year
Drainage Area: 191 mi²
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 14	9.22	Feb. 28	9.41

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.0	2.0	2.0	2.0	4.2	2.0	2.0	1.9	1.9	1.9	1.9
2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
10	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
11	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
12	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.3
13	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
14	2.0	2.0	2.0	6.4	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
15	2.0	2.0	2.0	2.6	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
16	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
17	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
18	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
19	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
20	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
21	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
22	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
23	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
24	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
26	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
27	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
28	2.0	2.0	2.0	2.0	6.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9
29	2.0	2.0	2.0	2.0	---	2.0	2.0	1.9	1.9	1.9	1.9	1.9
30	2.0	2.0	2.0	2.0	---	2.0	2.0	1.9	1.9	1.9	1.9	1.9
31	2.0	---	2.0	2.0	---	2.0	---	1.9	---	1.9	1.9	---
<hr/>												
MEAN	2.0	2.0	2.0	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.9	1.9
MAX	2.0	2.0	2.0	9.2	9.4	8.3	2.0	2.0	1.9	1.9	1.9	3.9
MIN	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
<hr/>												
WTR YR 1997	MEAN	1.99	MAX	9.41	MIN	1.90						

Note: Instrument lowered to 1.90 ft from 1.99 ft on 05/08/1997.

See also Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Reservoir Depths

Station Number: 4938 **Name:** Reata Pass Dam
Period of Record: 02/25/93 to current year
Depth, in feet, Water Year October 1996 to September 1997

No significant impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WTR YR 1997	MEAN	0.00	MAX	0.05	MIN	0.00						

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 5113 **Name:** Saddleback FRS
Period of Record: 12/16/88 to current year
Drainage Area: 29.6 mi² excluding area brought in from Harquahala FRS
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>					<u>Day</u>	<u>Maximum Level (ft)</u>					
Aug. 8	1.48					Sept. 25	1.00					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MAX	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.5	1.0
MIN	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
WTR YR 1997	MEAN	0.30	MAX	1.48	MIN	0.30						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5128 **Name:** Harquahala FRS
Period of Record: 03/01/94 to current year
Drainage Area: 102.3 mi²
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Aug. 8	18.35	Sept. 25	6.24

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.6
2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.5
3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.4
4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.2
5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.2
6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.1
7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	2.0
8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	1.8	1.9
9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	14.6	1.9
10	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	13.3	1.8
11	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	12.2	1.6
12	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	11.3	1.7
13	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	10.3	1.5
14	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	9.2	1.5
15	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	8.2	1.4
16	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	7.3	1.3
17	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	6.5	1.2
18	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	5.8	1.0
19	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	5.3	0.6
20	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	4.8	0.4
21	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	4.6	0.4
22	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	4.3	0.4
23	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	4.0	0.4
24	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	3.7	0.4
25	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	3.5	1.9
26	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	3.3	5.0
27	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	3.2	3.8
28	0.4	0.4	0.4	0.4	0.4	0.4	---	---	0.4	0.4	3.0	3.1
29	0.4	0.4	0.4	0.4	---	0.4	---	---	0.4	0.4	2.8	2.7
30	0.4	0.4	0.4	0.4	---	0.4	---	---	0.4	0.4	2.7	2.3
31	0.4	---	0.4	0.4	---	0.4	---	---	0.4	0.4	2.7	---
<hr/>												
MEAN	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	4.9	1.8
MAX	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	18.3	6.2
MIN	0.4	0.4	0.4	0.4	0.4	0.4	0.4	---	0.4	0.4	0.4	0.4

WTR YR 1997 MEAN 0.88 MAX 18.35 MIN 0.38

Gage out of service 04/23/97 to 06/18/97 due to instrument failure. No impoundments missed.

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5203 **Name:** Buckeye FRS #1

Period of Record: Nov. 1987 to current year

Drainage Area: 74 mi² without area from Buckeye FRS #2 and #3

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Aug. 8	1.31	Aug. 17	0.41
Sept. 2	-1.01	Sept. 11	-1.79

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.3	-2.4
MAX	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	1.3	-1.0
MIN	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5	-2.5

WTR YR 1997 MEAN -2.47 MAX 1.31 MIN -2.49

Note: Instrument 2.48 ft below gage datum at invert elevation of principle outlet which is located in a depressed drop box type inlet structure. Gage datum of 0.0 feet is taken to be the point at the top of the drop box which is level with the ground around the inlet structure. See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5208 **Name:** Buckeye FRS #2
Period of Record: 11/11/92 to current year
Drainage Area: 5.7 mi² without area from Buckeye FRS #3
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>			<u>Day</u>	<u>Maximum Level (ft)</u>							
Aug. 8	0.26			Aug. 30	0.29							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4
MAX	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	0.3	-1.1
MIN	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4
WTR YR 1997	MEAN	-1.39	MAX	0.29	MIN	-1.39						

Note: Instrument 1.39 ft below gage datum at invert elevation of principle outlet which is located in a depressed drop box type inlet structure. Gage datum of 0.0 feet is taken to be the point at the top of the drop box which is level with the ground around the inlet structure. See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5233 **Name:** Sunset FRS
Period of Record: 02/12/89 to current year
Drainage Area: 0.95 mi² (from Wickenburg ADMS)
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Feb. 28	2.67	Aug. 9	2.67
Sept. 5	4.25	Sept. 26	12.27

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1	0.7	0.7	0.7	0.7	0.7	2.4	0.7	0.7	0.7	0.7	0.7	0.7
2	0.7	0.7	0.7	0.7	0.7	2.1	0.7	0.7	0.7	0.7	0.7	0.7
3	0.7	0.7	0.7	0.7	0.7	1.9	1.3	0.7	0.7	0.7	0.7	0.7
4	0.7	0.7	0.7	0.7	0.7	1.7	1.6	0.7	0.7	0.7	0.7	0.7
5	0.7	0.7	0.7	0.7	0.7	1.5	1.4	0.7	0.7	0.7	1.3	1.1
6	0.7	0.7	0.7	0.7	0.7	1.3	1.1	0.7	0.7	0.7	2.0	3.9
7	0.7	0.7	0.7	0.7	0.7	1.1	0.8	0.7	0.7	0.7	1.7	3.5
8	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	1.6	3.2
9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.5	2.9
10	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.6
11	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.8	2.6
12	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.6	2.4
13	0.7	0.7	0.7	1.9	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
14	0.7	0.7	0.7	2.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.9
15	0.7	0.7	0.7	1.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.6
16	0.7	0.7	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7
17	0.7	0.7	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18	0.7	0.7	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
19	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
20	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
21	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
22	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
23	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
24	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
25	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1
26	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	10.2
27	0.7	0.7	0.7	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	9.3
28	0.7	0.7	0.7	0.7	2.6	0.7	0.7	0.7	0.7	0.7	0.7	8.4
29	0.7	0.7	0.7	0.7	---	0.7	0.7	0.7	0.7	0.7	0.7	7.8
30	0.7	0.7	0.7	0.7	---	0.7	0.7	0.7	0.7	0.7	0.7	7.0
31	0.7	---	0.7	0.7	---	0.7	---	0.7	---	0.7	0.7	---
MEAN	0.7	0.7	0.7	0.9	0.8	0.9	0.8	0.7	0.7	0.7	1.1	2.8
MAX	0.7	0.7	0.7	2.1	2.7	2.4	1.6	0.7	0.7	0.7	2.7	12.3
MIN	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

WTR YR 1997 MEAN 0.95 MAX 12.27 MIN 0.70

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5248 **Name:** Sunnycove FRS
Period of Record: Nov. 1987 to current year
Drainage Area: 0.98 mi² (from Wickenburg ADMS)
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

Day **Maximum Level (ft)**
 Sept. 26 17.19*

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
"												
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	17.2
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WTR YR 1997 **MEAN** 0.06 **MAX** 17.19 **MIN** 0.00

* Maximum from high water marks. Due to instrument failure during the 9/26/97 event, mean values for 9/25-27/97 and for the month of September are estimates.

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 5418 **Name:** White Tanks #3 FRS
Period of Record: Nov. 1987 to current year
Drainage Area: 20.5 mi² (White Tanks ADMS)
Depth, in feet, Water Year October 1996 to September 1997

No impoundment above gage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WTR YR 1997	MEAN	0.00	MAX	0.0	MIN	0.0						

* Significant storage volume exists below the instrument level due to the borrow pits behind the dam. The storage volume behind the dam at the instrument level is 124 acre-feet (revised from 74 acre-feet prior to WY 1997).

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Reservoir Depths

Station Number: 5448 **Name:** McMicken Dam
Period of Record: Nov. 1987 to current year
Drainage Area: 247 mi²
 Depth, in feet, Water Year October 1996 to September 1997

No significant impoundment during Water Year 1997. *

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WTR YR 1997	MEAN	0.00	MAX	0.0	MIN	0.0						

* Significant storage volume exists below the instrument level due to the borrow pits behind the dam.
 The storage volume behind the dam at the instrument level is 96 acre-feet.

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5539 **Name:** Adobe Dam

Drainage Area: 89.6 mi²

Period of Record: Nov. 1987 to present

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest on following days during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 14	1.37	Sept. 12	1.37

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MAX	0.1	0.1	0.1	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
MIN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

WTR YR 1997 MEAN 0.10 MAX 1.37 MIN 0.10

See also Surface Water Streamflow and Storage Volume Data.

Flood Elevation Frequency					
Magnitude and Probability of Elevation of Impoundment					
Elevation, in gage height (ft), for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
12.8	18.5	23.3	28.3	31.3	34.5

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 5614 **Name:** New River Dam
Drainage Area: 164 mi²
Period of Record: Nov. 1987 to current year
Depth, in feet, Water Year October 1996 to September 1997

No impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
MAX	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
MIN	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
WTR YR 1997	MEAN	2.88	MAX	2.88	MIN	2.88						

See also Surface Water Streamflow and Storage Volume Data.

Flood Elevation Frequency					
Magnitude and Probability of Elevation of Impoundment					
Elevation, in gage height (ft), for Indicated Recurrence Interval					
2-year	5-year	10-year	25-year	50-year	100-year
7.4	12.4	31	40	46.9	53.9

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5968 **Name:** StoneRidge Dam

Drainage Area: 0.86 mi²

Period of Record: 12/11/96 to current year

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>					<u>Day</u>	<u>Maximum Level (ft)</u>					
Aug. 26	1.09					Sept. 11	1.01					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MAX	---	---	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	1.1	1.0
MIN	---	---	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
WTR YR 1997	MEAN	0.83	MAX	1.09	MIN	0.75						

Note: Gage installed on 12/11/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5973 **Name:** SunRidge Canyon Dam
Drainage Area: 1.6 mi²
Period of Record: 02/04/97 to current year
 Depth, in feet, Water Year October 1996 to September 1997

No impoundments during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3
MAX	---	---	---	---	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
MIN	---	---	---	---	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
WTR YR 1997	MEAN	1.35	MAX	1.38	MIN	1.30						

Note: Gage installed on 02/04/1997.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5978 **Name:** GoldenEaglePark Dam
Drainage Area: 7.13 mi² of which 2.02 mi², 2.13 mi², and 1.6 mi² are controlled by Aspen, North Heights, and Sunridge Canyon Dams respectively
Period of Record: 12/12/96 to current year
 Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 13	1.02	Aug. 26	1.22
Sept. 11	1.60		

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MAX	---	---	0.2	1.0	0.8	0.2	0.2	0.2	0.2	0.2	1.2	1.6
MIN	---	---	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1

WTR YR 1997	MEAN	0.19	MAX	1.60	MIN	0.10
-------------	------	------	-----	------	-----	------

Note: Gage installed on 12/12/1996.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Reservoir Depths

Station Number: 5983 **Name:** North Heights Dam
Drainage Area: 2.13 mi²
Period of Record: 10/11/96 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>			<u>Day</u>	<u>Maximum Level (ft)</u>							
Feb. 27	0.89			Sept. 11	1.11							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MAX	0.3	0.3	0.3	0.5	0.9	0.3	0.3	0.3	0.3	0.3	0.4	1.1
MIN	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
WTR YR 1997	MEAN	0.31	MAX	1.11	MIN	0.27						

Note: Gage installed on 10/11/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 5988 **Name:** Aspen Dam

Drainage Area: 2.02 mi²

Period of Record: 01/02/97 to current year

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>											
Sept. 11	0.98											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MAX	---	---	---	0.6	0.6	0.3	0.3	0.2	0.2	0.2	0.2	1.0
MIN	---	---	---	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
WTR YR 1997	MEAN	0.22	MAX	0.98	MIN	0.14						

Note: Gage installed on 01/02/1997.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Reservoir Depths

Station Number: 5993 **Name:** Hesperus Dam

Drainage Area: 2.91 mi²

Period of Record: 12/18/96 to current year

Depth, in feet, Water Year October 1996 to September 1997

No significant impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAX	---	---	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MIN	---	---	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.9
WTR YR 1997	MEAN		1.01	MAX	1.05	MIN	0.95					

Note: Gage installed on 12/18/1996.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 6503 **Name:** Guadalupe FRS

Drainage Area: 1.87 mi²

Period of Record: 06/29/89 to current year

Depth, in feet, Water Year October 1996 to September 1997

No impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WTR YR 1997	MEAN	0.00	MAX	0.0	MIN	0.0						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 6608 **Name:** Freestone Basin
Drainage Area: 4.26 mi² (area downstream of Eastern Canal only, does not include area from overflows of Eastern Canal)
Period of Record: 12/19/96 to current year
Depth, in feet, Water Year October 1996 to September 1997

Rainfall produced impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 13	5.63	Feb. 28	5.82
Aug. 3	6.20	Aug. 9	5.15
Aug. 31	5.40		

Daily Mean Values													
<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	
1	3.1	1.8	4.3	3.8	3.4	5.8	2.7	2.5	3.9	1.9	2.4	5.4	
2	3.7	2.9	1.8	3.8	3.5	5.7	4.2	3.4	3.6	2.8	3.5	3.7	
3	4.4	3.3	2.8	2.3	1.9	4.9	4.8	4.0	3.4	3.2	5.3	3.6	
4	4.7	3.7	3.3	1.1	2.7	2.1	3.0	4.0	3.3	4.1	3.6	3.7	
5	4.7	2.4	3.5	2.8	3.3	3.1	0.2	4.1	3.2	4.1	2.1	2.6	
6	4.7	1.6	3.7	3.0	3.6	3.3	2.6	5.7	3.6	4.0	3.4	3.7	
7	4.7	1.5	3.9	1.5	1.9	1.3	2.6	6.5	3.7	1.8	3.7	2.4	
8	4.7	1.4	4.0	1.0	2.9	2.1	2.5	6.4	4.1	3.0	4.1	4.2	
9	4.7	0.1	4.1	3.1	3.3	3.0	2.6	6.1	4.2	3.4	5.1	4.1	
10	4.6	1.5	2.4	3.2	4.2	3.0	2.5	5.8	4.6	3.9	5.1	4.0	
11	2.7	3.1	2.7	3.2	4.3	3.2	0.9	5.5	4.6	3.4	2.4	4.2	
12	2.9	1.7	3.3	3.2	2.5	3.3	0.2	5.1	4.5	3.4	3.2	4.3	
13	3.4	3.0	1.6	4.8	3.8	1.8	0.7	4.8	4.3	4.4	3.7	4.3	
14	3.7	3.4	2.4	5.5	2.3	2.5	2.7	4.8	4.2	4.5	4.0	4.5	
15	2.8	2.0	3.2	5.5	2.6	3.1	2.7	4.5	3.9	2.7	2.5	2.6	
16	2.9	2.9	3.4	3.8	3.0	3.2	1.0	4.2	3.6	3.4	3.9	3.3	
17	3.4	3.3	3.7	0.1	2.2	3.1	2.6	4.0	3.5	1.4	4.1	3.2	
18	3.6	3.6	3.8	0.1	2.8	3.2	2.9	3.7	3.6	1.7	3.2	4.5	
19	3.9	3.8	3.9	0.1	1.6	3.2	3.0	3.5	4.8	4.6	3.7	1.5	
20	3.9	2.5	4.0	0.1	2.7	4.1	3.0	3.2	5.0	4.9	4.2	2.5	
21	2.5	0.1	4.0	1.7	1.8	1.5	3.1	3.1	4.8	3.4	3.2	3.1	
22	3.1	1.6	4.1	3.4	2.8	0.1	1.3	3.1	4.6	3.8	3.6	1.9	
23	3.6	4.2	4.1	4.1	3.1	0.2	0.2	3.1	4.8	4.1	4.4	3.3	
24	3.8	4.2	2.3	2.3	2.1	1.0	1.8	3.4	4.5	2.6	4.9	3.5	
25	3.9	4.5	0.8	0.1	2.9	0.9	2.4	4.2	4.1	3.5	3.6	3.6	
26	4.0	2.1	0.5	2.3	4.3	2.3	2.0	4.8	3.7	3.9	3.8	2.7	
27	2.4	2.9	0.3	3.2	3.7	2.0	1.0	4.9	3.9	4.1	2.9	3.2	
28	2.5	3.6	0.7	4.1	5.5	2.2	1.6	4.8	4.9	3.3	3.2	3.3	
29	1.5	4.0	1.9	1.7	---	1.6	2.2	4.9	4.8	3.7	3.9	3.4	
30	3.0	4.2	3.0	2.9	---	0.8	2.0	4.7	4.5	2.7	4.2	3.8	
31	3.4	---	3.7	3.2	---	0.5	---	4.4	---	3.1	5.3	---	
MEAN	3.6	2.7	2.9	2.6	3.0	2.5	2.2	4.4	4.1	3.4	3.8	3.5	
MAX	4.7	4.5	4.7	6.3	6.3	5.8	5.7	6.6	5.1	5.2	6.3	5.4	
MIN	0.1	-0.3	-0.1	0.1	0.1	0.1	0.1	2.3	3.2	0.2	0.2	0.2	
WTR YR 1997	MEAN	3.23	MAX	6.57	MIN	-0.28							

Note: Many days of impoundment due to irrigation tailwater. See also Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 6623 **Name:** Crossroads Park
Drainage Area: 15.7 mi² (area downstream of US 60 only, does not include area from Eastern Canal tailwater ditch under US 60)
Period of Record: 12/18/96 to current year
Depth, in feet, Water Year October 1996 to September 1997

No significant impoundment during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
MAX	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
MIN	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
WTR YR 1997	MEAN	1.33	MAX	1.3	MIN	1.3						

See also Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6628 **Name:** Signal Butte FRS
Drainage Area: 16.4 mi² not including area from Apache Junction FRS
Period of Record: 11/10/87 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Jan. 14	3.00	Aug. 10	5.60

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.0
2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2
3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
5	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
6	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
7	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
8	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3
9	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.1	-0.3
10	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	4.0	-0.3
11	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	4.3	-0.3
12	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	3.5	-0.3
13	-0.3	-0.3	-0.3	0.7	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	3.3	-0.3
14	-0.3	-0.3	-0.3	2.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	2.8	-0.3
15	-0.3	-0.3	-0.3	2.1	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	2.6	-0.3
16	-0.3	-0.3	-0.3	1.7	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	2.3	-0.3
17	-0.3	-0.3	-0.3	1.5	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	2.1	-0.3
18	-0.3	-0.3	-0.3	1.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.9	-0.3
19	-0.3	-0.3	-0.3	1.1	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.8	-0.3
20	-0.3	-0.3	-0.3	0.9	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.6	-0.3
21	-0.3	-0.3	-0.3	0.9	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.5	-0.3
22	-0.3	-0.3	-0.3	0.7	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.3	-0.3
23	-0.3	-0.3	-0.3	0.6	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.2	-0.3
24	-0.3	-0.3	-0.3	0.5	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.1	-0.3
25	-0.3	-0.3	-0.3	0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.0	-0.3
26	-0.3	-0.3	-0.3	0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	0.9	-0.3
27	-0.3	-0.3	-0.3	0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	0.7	-0.3
28	-0.3	-0.3	-0.3	0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	0.6	-0.3
29	-0.3	-0.3	-0.3	0.0	---	-0.3	-0.3	-0.3	-0.3	-0.3	0.4	-0.3
30	-0.3	-0.3	-0.3	-0.1	---	-0.3	-0.3	-0.3	-0.3	-0.3	0.3	-0.3
31	-0.3	---	-0.3	-0.2	---	-0.3	---	-0.3	---	-0.3	0.1	---
MEAN	-0.2	-0.3	-0.3	0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.2	-0.2
MAX	-0.3	-0.3	-0.3	3.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	5.6	-0.0
MIN	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3

WTR YR 1997 MEAN -0.07 MAX 5.60 MIN -0.25

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6673 **Name:** Apache Jct. FRS

Drainage Area: 5.8 mi²

Period of Record: Nov. 1987 to present

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>											
Jan. 13	1.23											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MAX	0.1	0.1	0.1	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MIN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WTR YR 1997	MEAN	0.13		MAX	1.23		MIN	0.13				

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6683 **Name:** Powerline FRS
Drainage Area: 49.9 mi²
Period of Record: 12/03/92 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Nov. 23	0.40	Jan. 13	0.50
Feb. 28	0.43		

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MAX	0.2	0.4	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MIN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

WTR YR 1997	MEAN	0.20	MAX	0.50	MIN	0.20
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See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6688 **Name:** Vineyard FRS
Drainage Area: 57.8 mi²
Period of Record: Nov. 1987 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

Day **Maximum Level (ft)**
 Jan. 13 0.80

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	---	0.0	0.0	---	0.0	---	0.0	---	0.0	0.0	---
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WTR YR 1997 MEAN 0.00 MAX 0.80 MIN 0.00

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6703 **Name:** Rittenhouse FRS
Drainage Area: 51.3 mi²
Period of Record: 09/27/88 to current year
Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>	<u>Day</u>	<u>Maximum Level (ft)</u>
Aug. 8	2.67	Aug. 31	3.22

Daily Mean Values												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.9	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	0.2	0.2	0.2	0.2	---	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	0.2	0.2	0.2	0.2	---	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31	0.2	---	0.2	0.2	---	0.2	---	0.2	---	0.2	1.6	---
<hr/>												
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
MAX	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	3.2	0.4
MIN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<hr/>												
WTR YR 1997	MEAN	0.21	MAX	3.22	MIN	0.20						

See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 6813 **Name:** Buckeye FRS #3

Drainage Area: 9.3 mi²

Period of Record: 11/23/92 to current year

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:												
<u>Day</u>	<u>Maximum Level (ft)</u>					<u>Day</u>	<u>Maximum Level (ft)</u>					
Aug. 8	-3.55					Sept. 1	-3.23					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1
MAX	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-3.6	-3.2
MIN	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1
<hr/>												
WTR YR 1997	MEAN	-4.08		MAX	-3.23		MIN	-4.08				

Note: Instrument 4.08 ft below gage datum at invert elevation of principle outlet which is located in a depressed drop box type inlet structure. Gage datum of 0.0 feet is taken to be the point at the top of the drop box which is level with the ground around the inlet structure. See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Reservoir Depths

Station Number: 6823 **Name:** White Tanks #4 FRS
Drainage Area: 18.6 mi² (White Tanks ADMS)
Period of Record: Nov. 1987 to current year
 Depth, in feet, Water Year October 1996 to September 1997

No impoundment above gage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WTR YR 1997	MEAN	0.00	MAX	0.0	MIN	0.0						

* Significant storage volume exists below the instrument level due to the large borrow pits behind the dam. The storage volume behind the dam at the instrument level is 585 acre-feet. See also Surface Water Streamflow and Storage Volume Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Reservoir Depths

Station Number: 7133 **Name:** Casandro Dam

Drainage Area: 1.3 mi²

Period of Record: 08/15/96 to current year

Depth, in feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Level (ft)</u>											
Sept. 26	11.3											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.2
MAX	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	11.3
MIN	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1

WTR YR 1997	MEAN	-0.05		MAX	11.30		MIN	-0.08				

Note: Instrument located 0.08 ft below outlet invert which is taken as 0.00 ft gage datum. See also Surface Water Streamflow and Storage Volume Data.



Flood Control, District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 4562 **Name:** Spookhill FRS Cap

Period of Record: Nov. 1987 to current year

Drainage Area: 13.6 mi²

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

- * Storage rating curve begins at 11.5 feet gage height. At 12.0 feet the rating shows 149 ac-ft of storage. See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 4647 **Name:** E.Fork CC #1 Cap

Drainage Area: 1.18 mi²

Period of Record: 03/02/94 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No storage during Water Year 1997 except on following day:

<u>Day</u>	<u>Maximum Storage</u>													
	<u>(ac-ft)</u>	<u>(% full)</u>	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Sept. 11	1	1.7												
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0	0	1
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	1	MIN	0								

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 4657 **Name:** E.Fork CC #4 Cap
Drainage Area: 0.68 mi²
Period of Record: 01/18/94 to current year
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Jan. 13	1	1.4	Feb. 28	1	1.4
Sept. 11	2	2.7			

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	1	1	0	0	0	0	0	0	2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	2	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 4682 **Name:** E.Fork CC #3 Cap
Drainage Area: 3.52 mi² (1.86 mi² controlled by EFCC #1 and EFCC #4)
Period of Record: 09/13/94 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

* Flows up to about the 2-year pass beneath the detention basin via storm drains.

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Storage Volumes

Station Number: 4802 **Name:** Dreamy Draw Dam Cap
Period of Record: Nov. 1987 to current year
Revised Records: WY1996: WY1995
Drainage Area: 1.3 mi²
Volume, in acre-feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 4817 **Name:** 10 St.Wash #1 Cap
Period of Record: 11/26/96 to current year
 Volume, in acre-feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>													
	<u>(ac-ft)</u>	<u>(% full)</u>	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Sept. 11	0.89	4.1												
MEAN	---	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	---	0	0	0	0	0	0	0	0	0	0	0	0	1
MIN	---	0	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0.89	MIN	0								

Note: Gage installed 11/26/96.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 4902 **Name:** Cave Buttes Dam Cap

Period of Record: Nov. 1987 to current year

Drainage Area: 191 mi²

Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Jan. 14	129	0.3	Feb. 28	134	0.3

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1					30							
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												3
13												
14				69								
15				4								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28					76							
29												
30												
31												

MEAN	0	0	0	2	3	1	0	0	0	0	0	0
MAX	0	0	0	129	134	105	0	0	0	0	0	12
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	MEAN		0	MAX		134	MIN		0			

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5112 **Name:** Saddleback FRS Cap
Period of Record: 12/16/88 to current year
Drainage Area: 29.6 mi² excluding area brought in from Harquahala FRS
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Aug. 8	86	1.3	Sept. 25	65	1.0

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8											8	
9											10	
10												
11												19
12												
13												
14												
15												
16												
17											6	
18											4	
19												
20												
21												
22												
23												
24												
25												10
26												
27												5
28												5
29												
30											2	
31											15	

MEAN	0	0	0	0	0	0	0	0	0	0	1	1
MAX	0	0	0	0	0	0	0	0	0	0	86	65
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	MEAN		0	MAX		86	MIN		0			

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5127 **Name:** Harquahala FRS Cap
Period of Record: 03/01/94 to current year
Drainage Area: 102.3 mi²
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	(ac-ft)	(% full)		(ac-ft)	(% full)
Aug. 8	151*	1.7*	Sept. 25	1*	<0.1*

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
2												
3												
4												
5												
6												
7												
8											8	
9											35	
10											19	
11											13	
12											9	
13											6	
14											4	
15											3	
16											2	
17											1	
18											1	
19											1	
20											1	
21												
22												
23												
24												
25												
26												1
27												
28												
29												
30												
31												

MEAN	0	0	0	0	0	0	0	---	0	0	3	0
MAX	0	0	0	0	0	0	0	---	0	0	151	1
MIN	0	0	0	0	0	0	0	---	0	0	0	0

WTR YR 1997	MEAN		0	MAX		151	MIN		0			

* Storage shown assumes level pool behind length of dam. Multiple pools are disconnected below approximately 34 ft gage height = 6,800 ac-ft = 78 % full.

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5202 **Name:** Buckeye FRS #1 Cap
Period of Record: Nov. 1987 to current year
Drainage Area: 74 mi² without area from Buckeye FRS #2 and #3
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Aug. 8	48	0.6	Aug. 17	20	0.2
Sept. 2	6	<0.1	Sept. 11	3	<0.1

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												1
2												4
3												2
4												
5												
6												
7												
8											4	
9											12	
10											3	
11												1
12											1	1
13											1	
14												
15												
16												
17											4	
18											5	
19											2	
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEAN	0	0	0	0	0	0	0	0	0	0	1	0
MAX	0	0	0	0	0	0	0	0	0	0	48	6
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	48	MIN	0					

Note: Storage volume and percent full statistics assume a connected level pool behind the dam. See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5207 **Name:** Buckeye FRS #2 Cap
Period of Record: 11/11/92 to current year
Drainage Area: 5.7 mi² without area from Buckeye FRS #3
Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage except on following days in Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>			<u>Maximum Storage</u>								
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>Day</u>	<u>(ac-ft)</u>							
Aug. 8	2	0.2		Aug. 30	2	0.2						
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	2	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	2	MIN	0						

Note: Storage volume and percent full statistics assume a connected level pool behind the dam. See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5232 **Name:** Sunset FRS Cap
Period of Record: 02/12/89 to current year
Drainage Area: 0.95 mi² (from Wickenburg ADMS)
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

Day	Maximum Storage		Day	Maximum Storage	
	(ac-ft)	(% full)		(ac-ft)	(% full)
Feb. 28	1	1.2	Aug. 5	1	1.2
Aug. 9	1	1.2	Sept. 5	3	3.5
Sept. 26	34	39.5			

Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						1						
2						1						
3												
4												
5												
6												2
7												1
8												1
9											1	1
10											1	1
11												1
12												1
13												1
14												1
15												1
16												1
17												1
18												1
19												1
20												1
21												1
22												1
23												1
24												
25												1
26												24
27												18
28					1							14
29												12
30												10
31												

MEAN	0	0	0	0	0	0	0	0	0	0	0	3
MAX	0	0	0	0	1	1	0	0	0	0	1	34
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	MEAN		0	MAX	34	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5247 **Name:** Sunnycove FRS Cap
Period of Record: Nov. 1987 to current year
Drainage Area: 0.98 mi² (from Wickenburg ADMS)
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum storage during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>													
	<u>(ac-ft)</u>	<u>(% full)</u>	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Sept. 26	30*	13.9												
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0	0	*30
MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	30*	MIN	0								

* Maximum for Water Year 1997 from high water marks surveyed on 09/26/97. Due to instrument failure during this impoundment, no mean value is reported for September 1997.

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5417 **Name:** White Tanks #3 Cap

Period of Record: Nov. 1987 to current year

Drainage Area: 20.5 mi² (White Tanks ADMS)

Volume, in acre feet, Water Year October 1996 to September 1997

No impoundment above gage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

* Significant storage volume exists below the instrument level due to the borrow pits behind the dam. The storage volume behind the dam at the instrument level is 124 acre-feet (revised from 74 acre-feet during years prior to WY 1997). See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5447 **Name:** McMicken Dam Cap

Period of Record: Nov. 1987 to current year

Drainage Area: 247 mi²

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997. *

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

* Significant storage volume exists below the instrument level due to the borrow pits behind the dam. The storage volume behind the dam at the instrument level is 96 acre-feet.

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5537 **Name:** Adobe Dam Cap

Drainage Area: 89.6 mi²

Period of Record: Nov. 1987 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No storage except on following days during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>								
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>							
Jan. 14	2	<0.1	Sept. 12	2	<0.1							
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	2	0	0	0	0	0	0	0	2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	2	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5612 **Name:** New River Dam Cap

Drainage Area: 164 mi²

Period of Record: Nov. 1987 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No impoundment above gage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5967 **Name:** StoneRidge Dam Cap
Drainage Area: 0.86 mi²
Period of Record: 12/11/96 to current year
Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	0	0	0	0	0	0	0	0	0	0
MAX	---	---	0	0	0	0	0	0	0	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

Note: Gage installed on 12/11/1996.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5972 **Name:** SunRidge Canyon Cap

Drainage Area: 1.6 mi²

Period of Record: 02/04/97 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	0	0	0	0	0	0	0	0
MAX	---	---	---	---	0	0	0	0	0	0	0	0
MIN	---	---	---	---	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

Note: Gage installed on 02/04/1997.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5977 **Name:** GoldenEaglePark Cap
Drainage Area: 7.13 mi² of which 2.02 mi², 2.13 mi², and 1.6 mi² are controlled by Aspen, North Heights, and Sunridge Canyon Dams respectively
Period of Record: 12/12/96 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	0	0	0	0	0	0	0	0	0	0
MAX	---	---	0	0	0	0	0	0	0	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

Note: Gage installed on 12/12/1996.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Storage Volumes

Station Number: 5982 **Name:** North Hghts Dam Cap
Drainage Area: 2.13 mi²
Period of Record: 10/11/96 to current year
Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

Note: Gage installed on 10/11/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 5987 **Name:** Aspen Dam Capacity
Drainage Area: 2.02 mi²
Period of Record: 01/02/97 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	0	0	0	0	0	0	0	0	0
MAX	---	---	---	0	0	0	0	0	0	0	0	0
MIN	---	---	---	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

Note: Gage installed on 01/02/1997.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 5992 **Name:** Hesperus Dam Cap
Drainage Area: 2.91 mi²
Period of Record: 12/18/96 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage since gage installation during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	0	0	0	0	0	0	0	0	0	0
MAX	---	---	0	0	0	0	0	0	0	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

Note: Gage installed on 12/18/1996.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6502 **Name:** Guadalupe FRS Cap

Drainage Area: 1.87 mi²

Period of Record: 06/29/89 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6608 **Name:** Freestone Basin
Drainage Area: 4.26 mi² (area downstream of Eastern Canal only, does not include area from overflows of Eastern Canal)
Period of Record: 12/19/1995 to current year
Volume, in acre-feet, Water Year October 1996 to September 1997

Rainfall produced impoundments of interest during Water Year 1997:

Day	Maximum Storage		Day	Maximum Storage	
	(ac-ft)	(% full)		(ac-ft)	(% full)
Jan. 13	4.1	1.9	Feb. 28	4.8	2.2
Aug. 3	6.1	2.8	Aug. 9	3.0	1.4
Aug. 31	3.5	1.6			

DAY	Daily Mean Values											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			2	1	1	5			1	1		3
2	1			1	1	4	1	1	1		1	2
3	2	1		1		3	2	1	1		4	1
4	2	1	1				2	1	1	1	3	1
5	2	1	1		1			1	1	1		1
6	2		1		1	1		5	1	1	1	1
7	2		1					7	1		1	1
8	2		1					7	1		1	2
9	2		1		1			6	1	1	3	2
10	2		1	1	2			5	2	1	3	1
11	1			1	4			4	2	1	1	1
12			1	1		1		3	2	1		1
13	1			3	1			2	1	1	1	1
14	1	1		4	1			2	1	2	1	2
15	1			4				2	1	1	1	1
16			1	2				1	1	1	1	1
17	1	1	1					1	1		1	1
18	1	1	1					1	1		1	2
19	1	1	1			1		1	2	2	1	
20	1	1	1			1			3	2	1	
21	1		1						2	1	1	
22			1	1					2	1	1	
23	1	1	1	1					2	1	2	1
24	1	1	1	1				1	2	1	3	1
25	1	2						1	1	1	1	1
26	1	1			1			2	1	1	1	
27	1			1	1			2	1	1		
28		1		3	4			2	2	1		1
29		1						2	2	1	1	1
30		1						2	2		1	1
31	1		1	1				1			3	
MEAN	1	1	1	1	1	1	0	2	1	1	1	1
MAX	2	2	2	7	7	5	4	7	3	3	6	4
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		1	MAX	7	MIN	0					

Note: Many days of storage from irrigation tailwater. See also Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6623 **Name:** Crossroads Park
Drainage Area: 15.7 mi² (area downstream of US 60 only, does not include area from Eastern Canal tailwater ditch under US 60)
Period of Record: 12/18/1995 to current year
 Volume, in acre-feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX		0	MIN		0			

See also Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 6627 **Name:** Signal Butte FRS Cap
Drainage Area: 16.4 mi² not including area from Apache Junction FRS
Period of Record: 11/10/87 to current year
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Jan. 14	8	0.5	Aug. 10	39	2.3

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
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7												
8												
9												
10											26	
11											21	
12											13	
13				1							11	
14				3							7	
15				3							5	
16				1							4	
17				1							3	
18											2	
19											2	
20											1	
21											1	
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

MEAN	0	0	0	0	0	0	0	0	0	0	3	0
MAX	0	0	0	8	0	0	0	0	0	0	39	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

WTR YR 1997	MEAN		0	MAX		39	MIN		0			

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6672 **Name:** Apache Jct. FRS Cap

Drainage Area: 5.8 mi²

Period of Record: Nov. 1987 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	0	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 6682 **Name:** Powerline FRS Cap
Drainage Area: 49.9 mi²
Period of Record: 12/03/92 to current year
Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Nov. 23	5	0.1	Jan. 13	6	0.1
Feb. 28	5	0.1			

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
13				2								
28					3							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	5	0	6	5	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	6	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6687 **Name:** Vineyard FRS Cap
Drainage Area: 57.8 mi²
Period of Record: Nov. 1987 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>
Jan. 13	36	1.0

<u>DAY</u>	<u>Daily Mean Values</u>											
	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
1												
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15				8								
16				5								
17				1								
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30												
31												
MEAN	0	0	0	2	0	0	0	0	0	0	0	0
MAX	0	0	0	36	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	36	MIN	0						

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6702 **Name:** Rittenhouse FRS Cap
Drainage Area: 51.3 mi²
Period of Record: 09/27/88 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

Maximum impoundments of interest during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>		<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>		<u>(ac-ft)</u>	<u>(% full)</u>
Aug. 8	2	<0.1	Aug. 31	4	0.1

Daily Mean Values

<u>DAY</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
8												1
9												1
31												1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	4	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX		4	MIN		0			

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System
Computation Of Continuous Records Of Storage Volumes

Station Number: 6812 **Name:** Buckeye FRS #3 Cap

Drainage Area: 9.3 mi²

Period of Record: 11/23/92 to current year

Volume, in acre feet, Water Year October 1996 to September 1997

No significant storage during Water Year 1997.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System

Computation Of Continuous Records Of Storage Volumes

Station Number: 6822 **Name:** White Tanks #4 Cap
Drainage Area: 18.6 mi² (White Tanks ADMS)
Period of Record: Nov. 1987 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

No impoundment above gage during Water Year 1997.*

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN	0	MAX	0	MIN	0						

* Significant storage volume exists below the instrument level due to the large borrow pits behind the dam. The storage volume behind the dam at the instrument level is 585 acre-feet. See also Surface Water Streamflow and Pool Level Data.

Flood Control District Of Maricopa County ALERT System Computation Of Continuous Records Of Storage Volumes

Station Number: 7132 **Name:** Casandro Dam Cap
Drainage Area: 1.3 mi²
Period of Record: 08/15/1996 to current year
 Volume, in acre feet, Water Year October 1996 to September 1997

Maximum storage impounded during Water Year 1997:

<u>Day</u>	<u>Maximum Storage</u>	
	<u>(ac-ft)</u>	<u>(% full)</u>
Sept. 26	65	45

<u>DAY</u>	<u>Daily Mean Values</u>											
	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
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22												
23												
24												
25												
26												36
27												7
28												
29												
30												
31												
MEAN	0	0	0	0	0	0	0	0	0	0	0	1
MAX	0	0	0	0	0	0	0	0	0	0	0	65
MIN	0	0	0	0	0	0	0	0	0	0	0	0
WTR YR 1997	MEAN		0	MAX	65	MIN	0					

See also Surface Water Streamflow and Pool Level Data.

Comment/Errata Sheet

Comments about this report or errors discovered may be forwarded to the Flood Warning and Data Collection Branch using this Comment/Errata sheet. Simply fold this sheet over in half so that the address labels are on the outside, tape closed, add a stamp and place in the mail.

Comments: _____

Errors (please include page numbers, gage names or IDs, and dates whenever possible): _____

Comment/Errata Sheet

Flood Control District of Maricopa County
Flood Warning and Data Collection Branch
2801 W. Durango Street
Phoenix, Arizona 85009

Place
Stamp
Here

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Flood Warning and Data Collection Branch
2801 W. Durango Street
Phoenix, Arizona 85009