BILL WILLIAMS RIVER BASIN

09424447 BURRO CREEK AT OLD U.S. 93 BRIDGE, NEAR BAGDAD, AZ

LOCATION.--Lat 34°32'30", long 113°26'40", in SW$^1/_4$ sec.19, T.14 N., R.11 W., Mohave County, Hydrologic Unit 15030202, on left bank 15 mi upstream from confluence with Big Sandy River, and 15 mi southwest of Bagdad.

DRAINAGE AREA.--611 mi^2, of which 10 mi^2 is noncontributing.

PERIOD OF RECORD.--August 1980 to current year.

REVISED RECORDS.--WDR AZ-88-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,880 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,300 ft^3/s Feb. 8, 1993, gage height, 16.30 ft; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 44,700 ft^3/s Feb. 14, 1980, from slope-area measurement of peak flow at present site and datum, gage height, 15.6 ft, from high-water mark in vicinity of gage.

Annual peak discharges

Water year	Date	Annual peak discharge (ft^3/s)	Discharge codes	Water year	Date	Annual peak discharge (ft^3/s)	Discharge codes
1980	02-14-80	47,400		1987	03-05-87	565	1987
1981	09-05-81	728		1988	08-27-88	6,410	1988
1982	02-11-82	5,400		1989	01-05-89	798	1989
1983	03-03-83	30,600		1990	09-18-90	1,410	1990
1984	08-24-84	3,950		1991	03-01-91	29,900	1991
1985	12-27-84	12,400		1992	02-13-92	12,300	1992
1986	11-30-85	6,210		1993	02-08-93	55,300	1993

Discharge rating table developed September 1990

Gage height (ft)	Discharge (ft^3/s)	Gage height (ft)	Discharge (ft^3/s)
4.0	7.0	12.0	18,140
5.0	176	13.0	24,540
7.0	1,660	14.0	32,220
9.0	5,580	15.0	41,270
10.0	8,770	16.0	51,820
11.0	12,920	16.4	56,500

BILL WILLIAMS RIVER BASIN

09424447 BURRO CREEK AT OLD U.S. 93 BRIDGE, NEAR BAGDAD, AZ--Continued

MEAN MONTHLY AND ANNUAL DISCHARGES 1981-93

MONTH	MAXIMUM (FT3/S)	MINIMUM (FT3/S)	MEAN (FT3/S)	STANDARD DEVIATION (FT3/S)	COEFFICIENT OF VARIATION	PERCENT OF ANNUAL RUNOFF
OCTOBER	69	0.00	6.2	19	3.1	0.5
NOVEMBER	112	0.00	19	38	2.0	1.7
DECEMBER	710	0.00	102	205	2.0	8.9
JANUARY	2,610	3.3	256	715	2.8	22.4
FEBRUARY	2,090	5.8	325	568	1.8	28.4
MARCH	1,370	4.9	336	458	1.4	29.3
APRIL	93	1.6	30	34	1.1	2.6
MAY	15	0.56	3.8	3.9	1.0	0.3
JUNE	4.4	0.04	0.93	1.2	1.2	0.1
JULY	6.2	0.00	1.5	2.2	1.4	0.1
AUGUST	188	0.06	28	58	2.1	2.4
SEPTEMBER	403	0.00	38	110	2.9	3.3
ANNUAL	414	5.6	95	116	1.2	100

MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW
BASED ON PERIOD OF RECORD 1982-93

PERIOD (CONSECUTIVE DAYS)	DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND NON-EXCEEDANCE PROBABILITY, IN PERCENT					
	2 50%	5 20%	10 10%	20# 5%	50# 2%	100# 1%
1	0.00	0.00	0.00	0.00	0.00	0.00
3	0.03	0.00	0.00	0.00	0.00	0.00
7	0.05	0.00	0.00	0.00	0.00	0.00
14	0.10	0.00	0.00	0.00	0.00	0.00
30	0.13	0.00	0.00	0.00	0.00	0.00
60	0.24	0.00	0.00	0.00	0.00	0.00
90	0.34	0.09	0.02	0.00	0.00	0.00
120	1.0	0.23	0.04	0.00	0.00	0.00
183	2.5	0.45	0.17	0.07	0.02	0.01

MAGNITUDE AND PROBABILITY OF INSTANTANEOUS PEAK FLOW
BASED ON PERIOD OF RECORD

DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT					
2 50%	5 20%	10 10%	25 4%	50 2%	100 1%
---	---	---	---	---	---

WEIGHTED SKEW (LOGS)= ----
MEAN (LOGS)= ----
STANDARD DEV. (LOGS)= ----

MAGNITUDE AND PROBABILITY OF ANNUAL HIGH FLOW
BASED ON PERIOD OF RECORD 1981-93

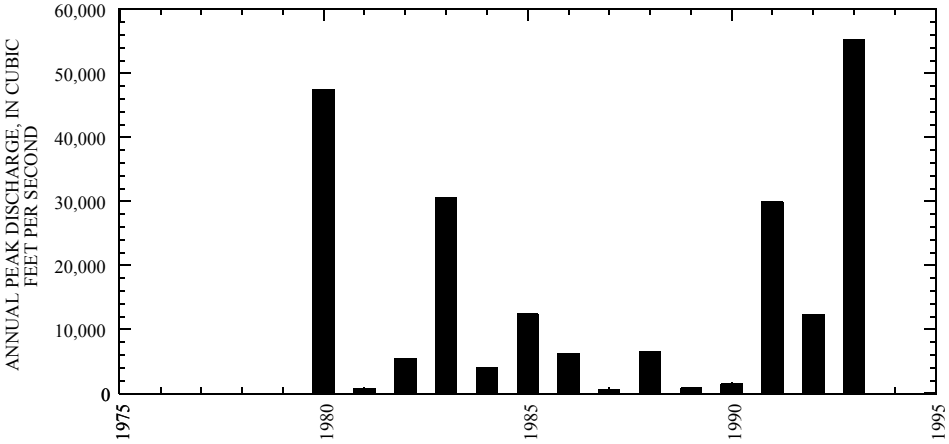
PERIOD (CONSECUTIVE DAYS)	DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT					
	2 50%	5 20%	10 10%	25# 4%	50# 2%	100# 1%
1	2,160	7,900	15,300	30,600	47,600	70,500
3	1,270	4,600	8,730	16,900	25,500	36,600
7	743	2,630	4,900	9,220	13,700	19,200
15	437	1,580	3,000	5,820	8,810	12,700
30	290	1,050	1,980	3,790	5,690	8,130
60	190	726	1,440	2,950	4,670	7,020
90	134	497	976	1,990	3,140	4,720

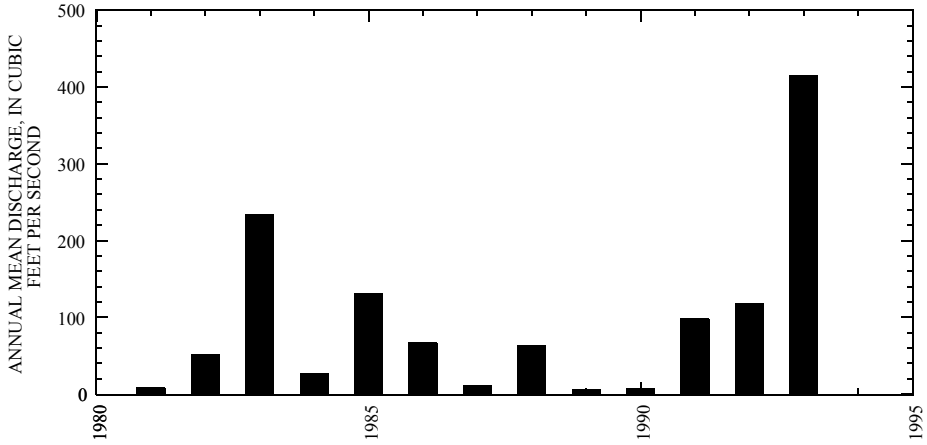
DURATION TABLE OF DAILY MEAN FLOW FOR PERIOD OF RECORD 1981-93

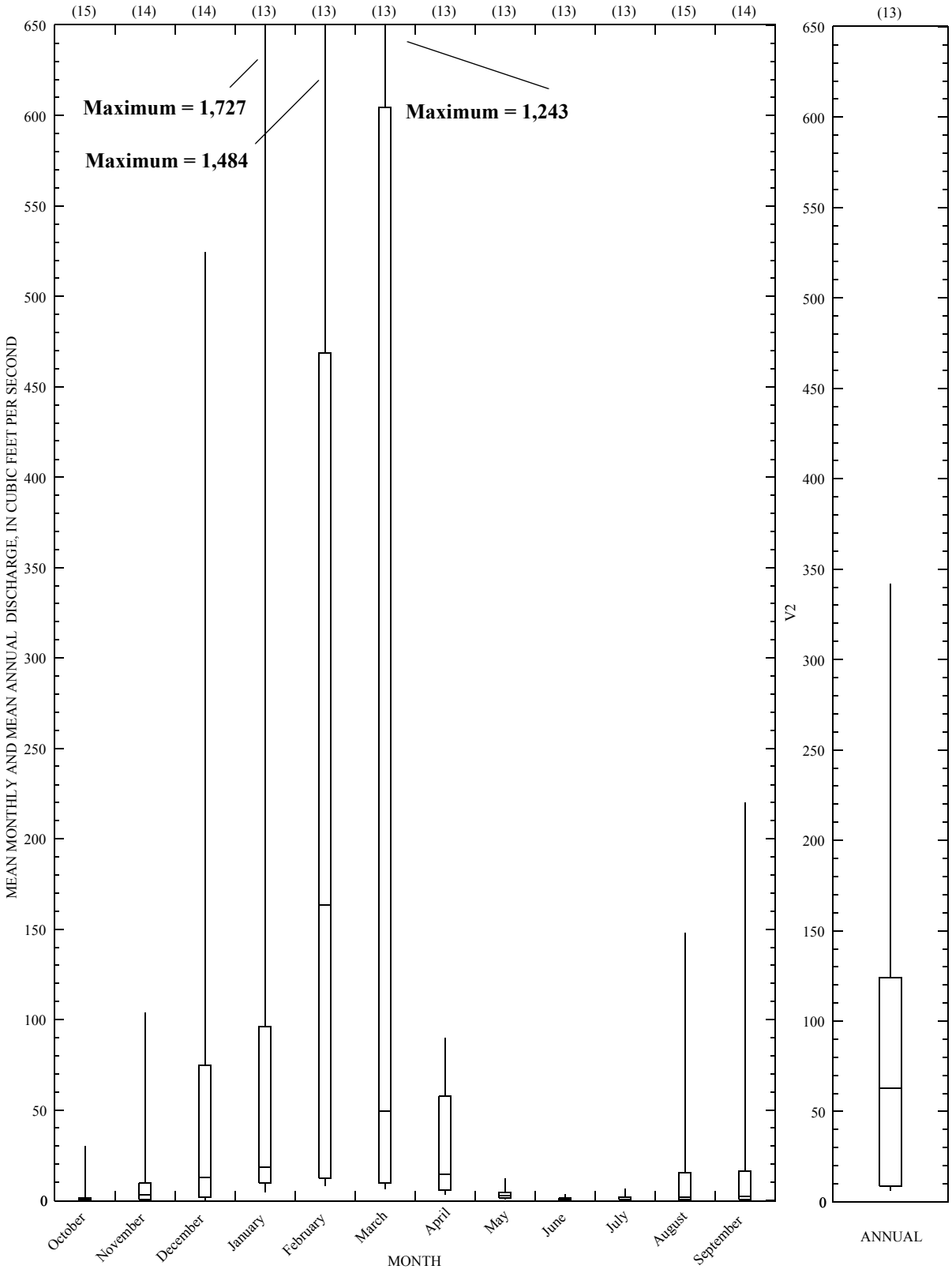
DISCHARGE, IN FT3/S, WHICH WAS EQUALED OR EXCEEDED FOR INDICATED PERCENT OF TIME																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
1,900	236	62	28	18	10	6.0	2.8	1.4	0.69	0.30	0.08	0.00	0.00	0.00	0.00	0.00

Reliability of values in column is uncertain, and potential errors are large.

09424447 BURRO CREEK AT OLD U.S. 93 BRIDGE, NEAR BAGDAD, AZ--Continued






(15)
(14)
(14)
(13)
(13)
(13)
(13)
(13)
(13)
(13)
(15)
(14)
(13)
Maximum = 1,727
Maximum = 1,484
Maximum = 1,243
MEAN MONTHLY AND MEAN ANNUAL DISCHARGE, IN CUBIC FEET PER SECOND
0
50
100
150
200
250
300
350
400
450
500
550
600
650
October
November
December
January
February
March
April
May
June
July
August
September
MONTH
V2
ANNUAL