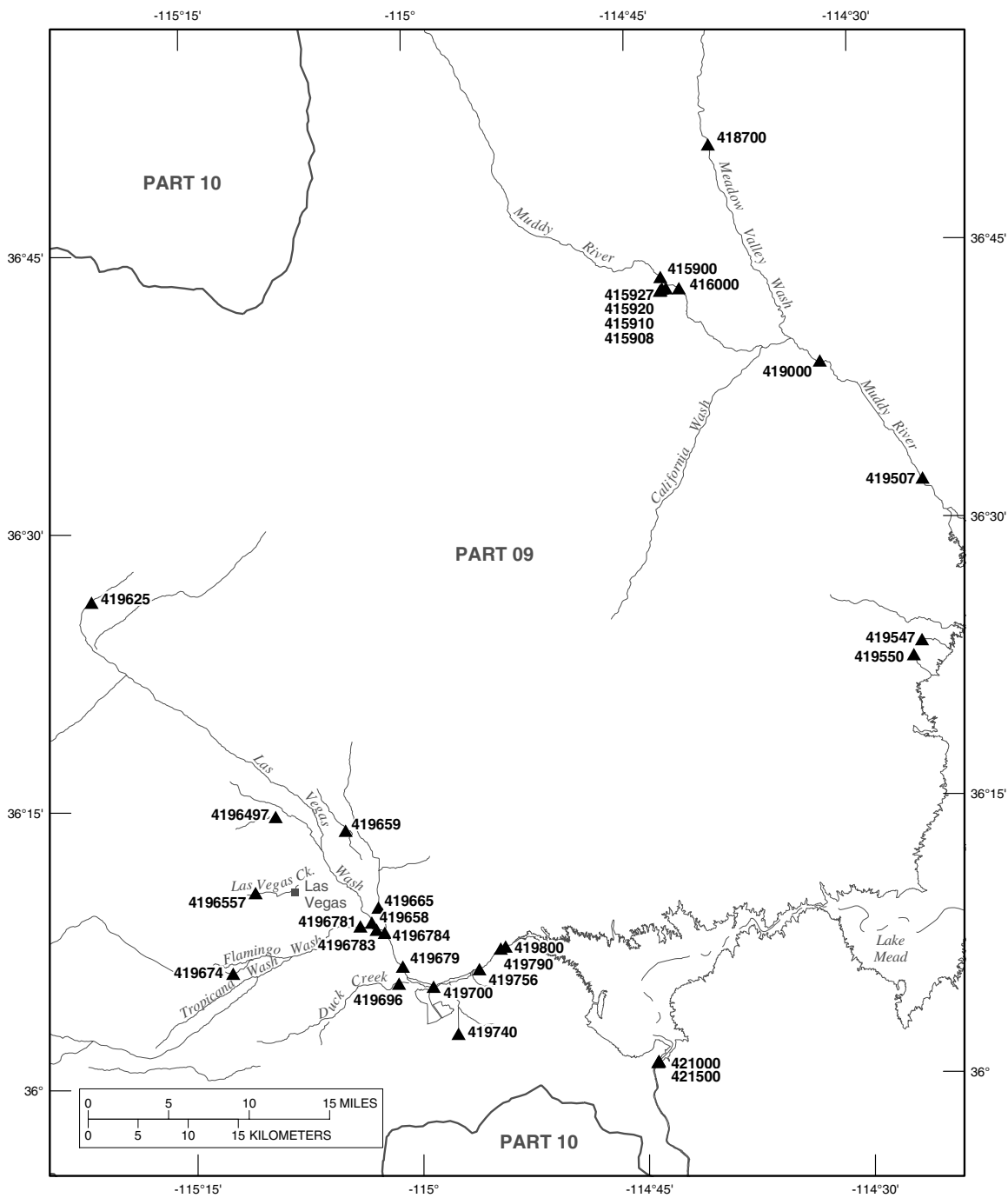


Figure 11. Gaging stations listed in this report.



EXPLANATION

- | | |
|--|---|
| <p>—— Boundary between major parts of the state--
 Part numbers are as follows:
 09 Colorado River Basin
 10 Great Basin</p> | <p>▲ Active gaging station--
 Complete designation includes
 part number as first two digits.</p> |
|--|---|

Figure 12. Gaging stations, southeastern Nevada.

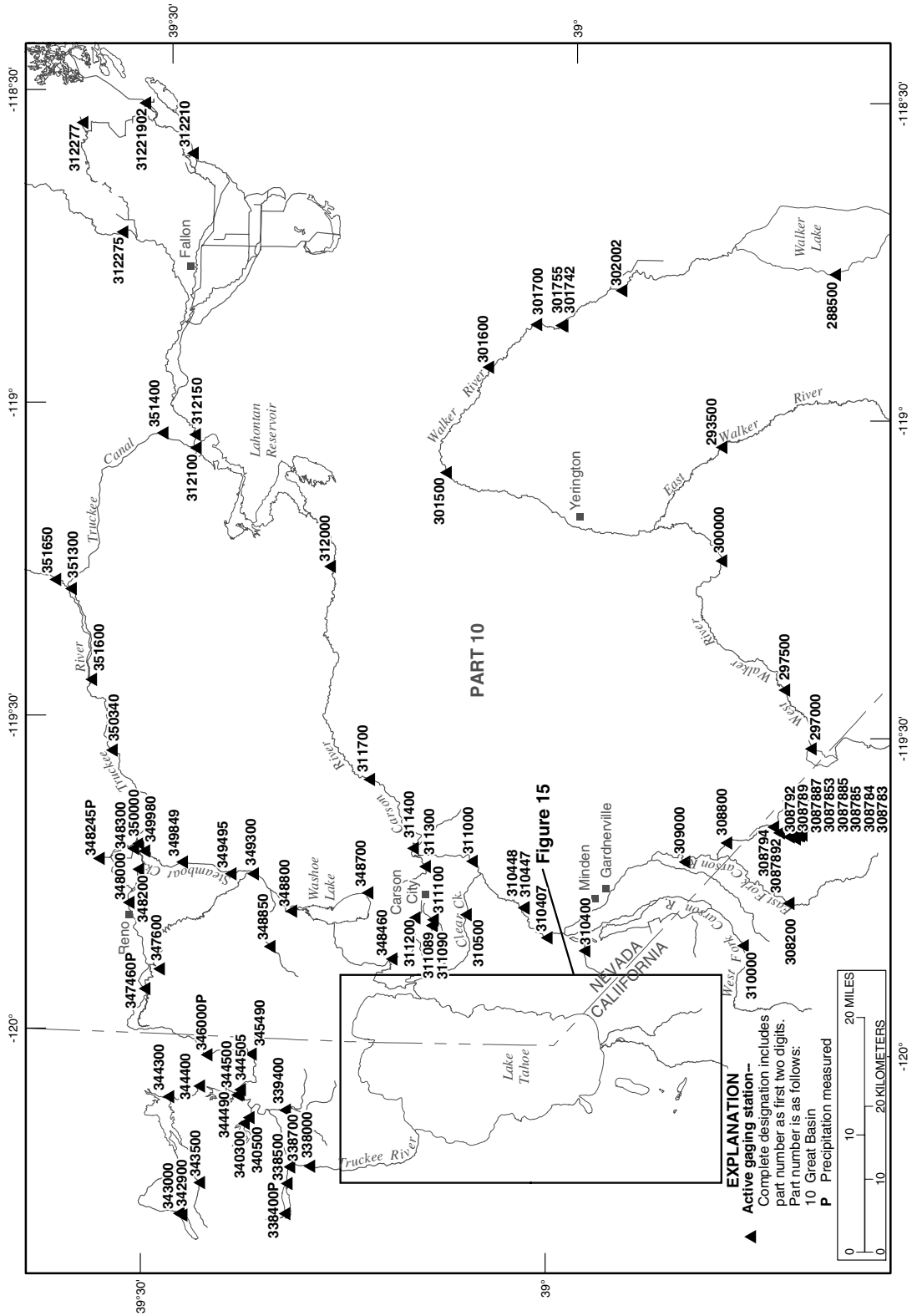


Figure 13. Gaging stations, west-central Nevada.

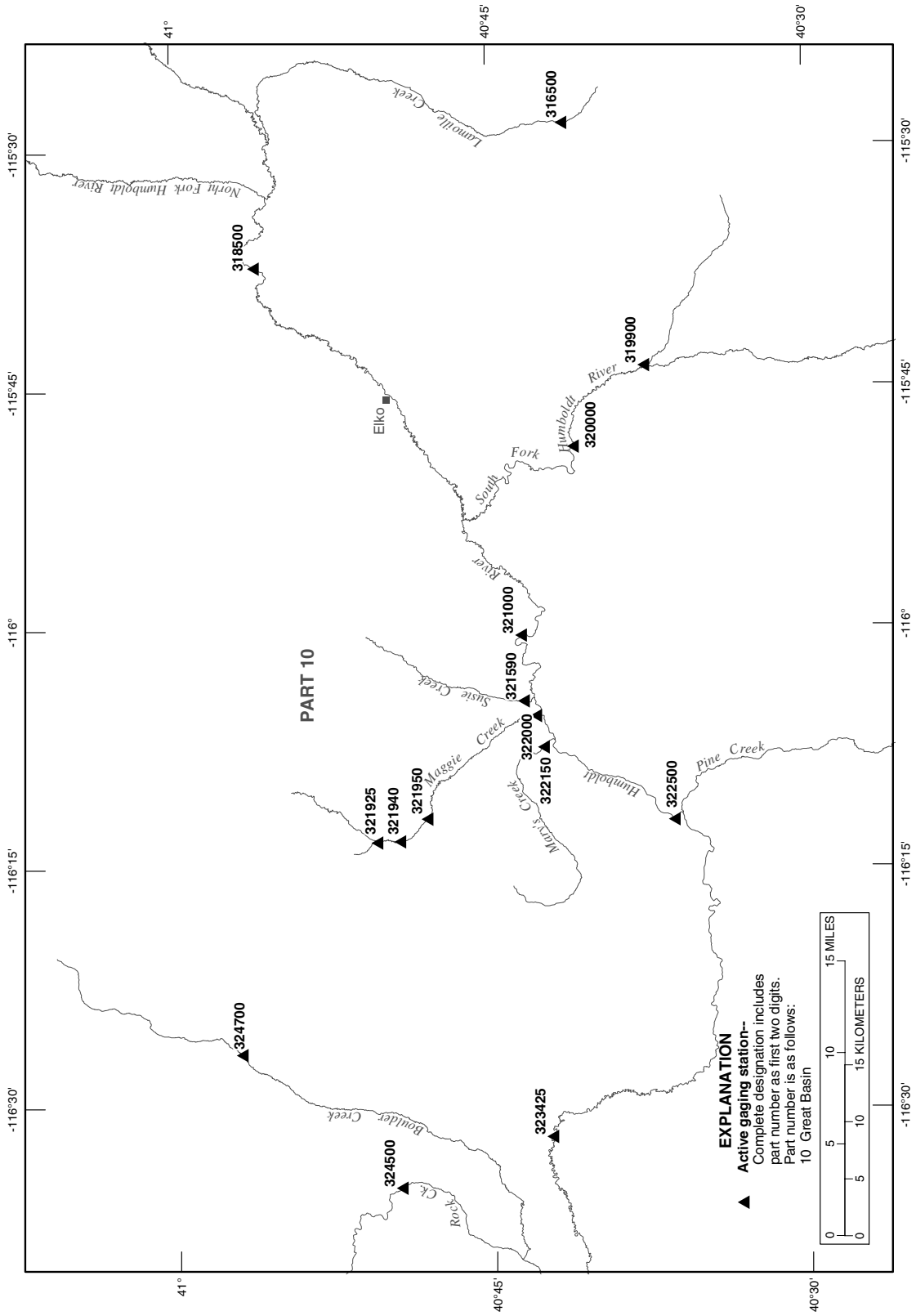


Figure 14. Gaging stations, upper Humboldt River

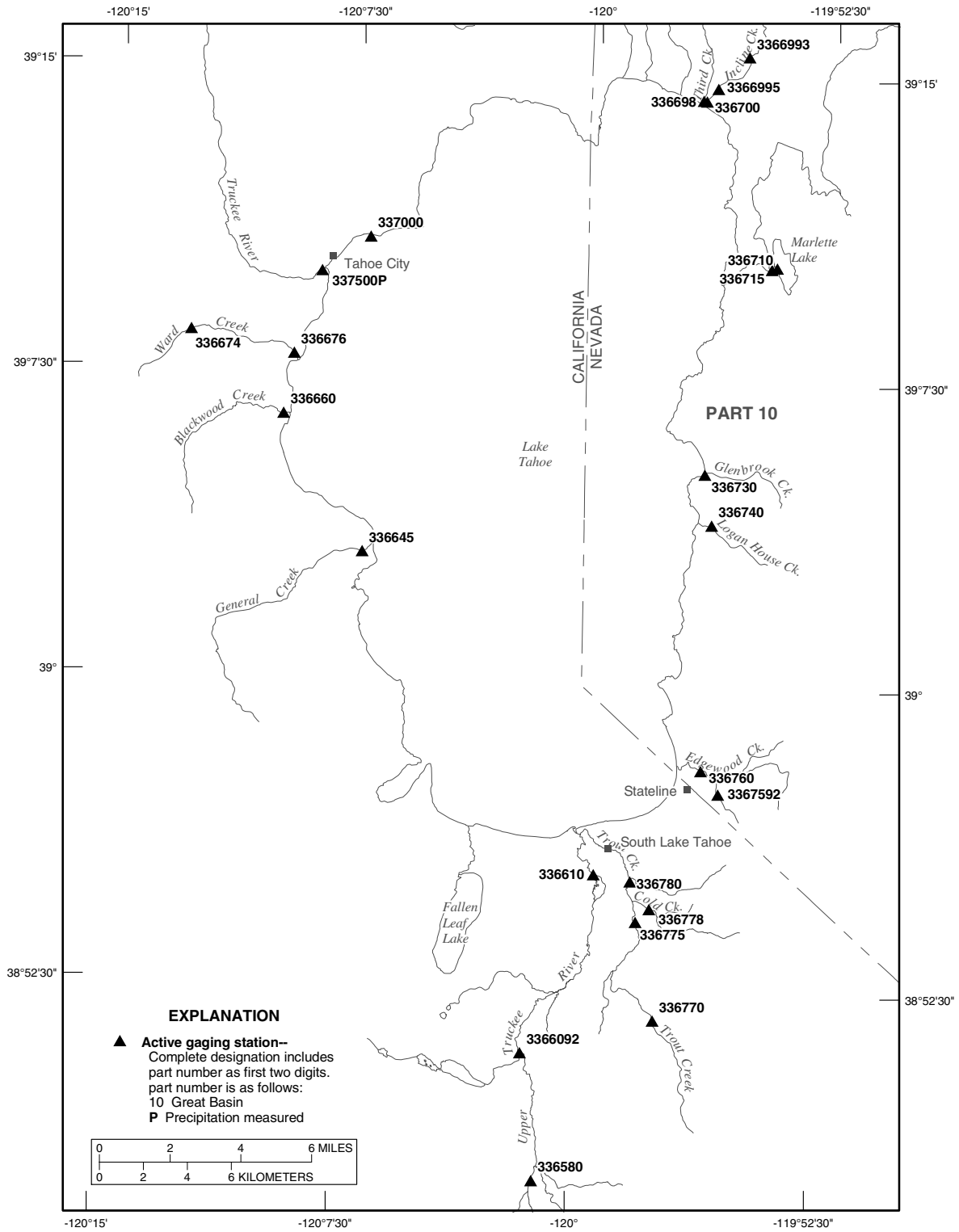


Figure 15. Gaging stations, Lake Tahoe.

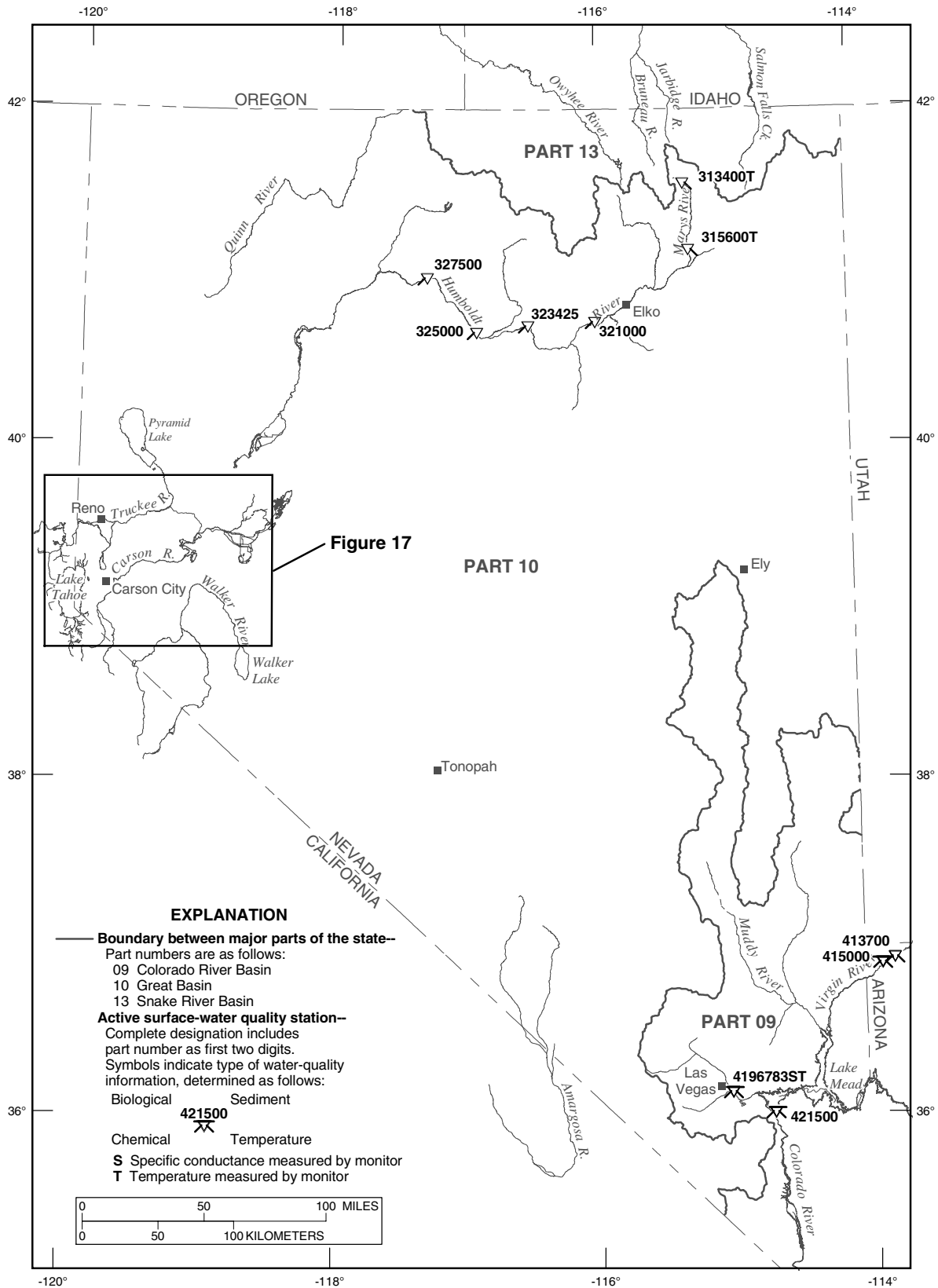


Figure 16. Surface-water quality stations, listed in this report.

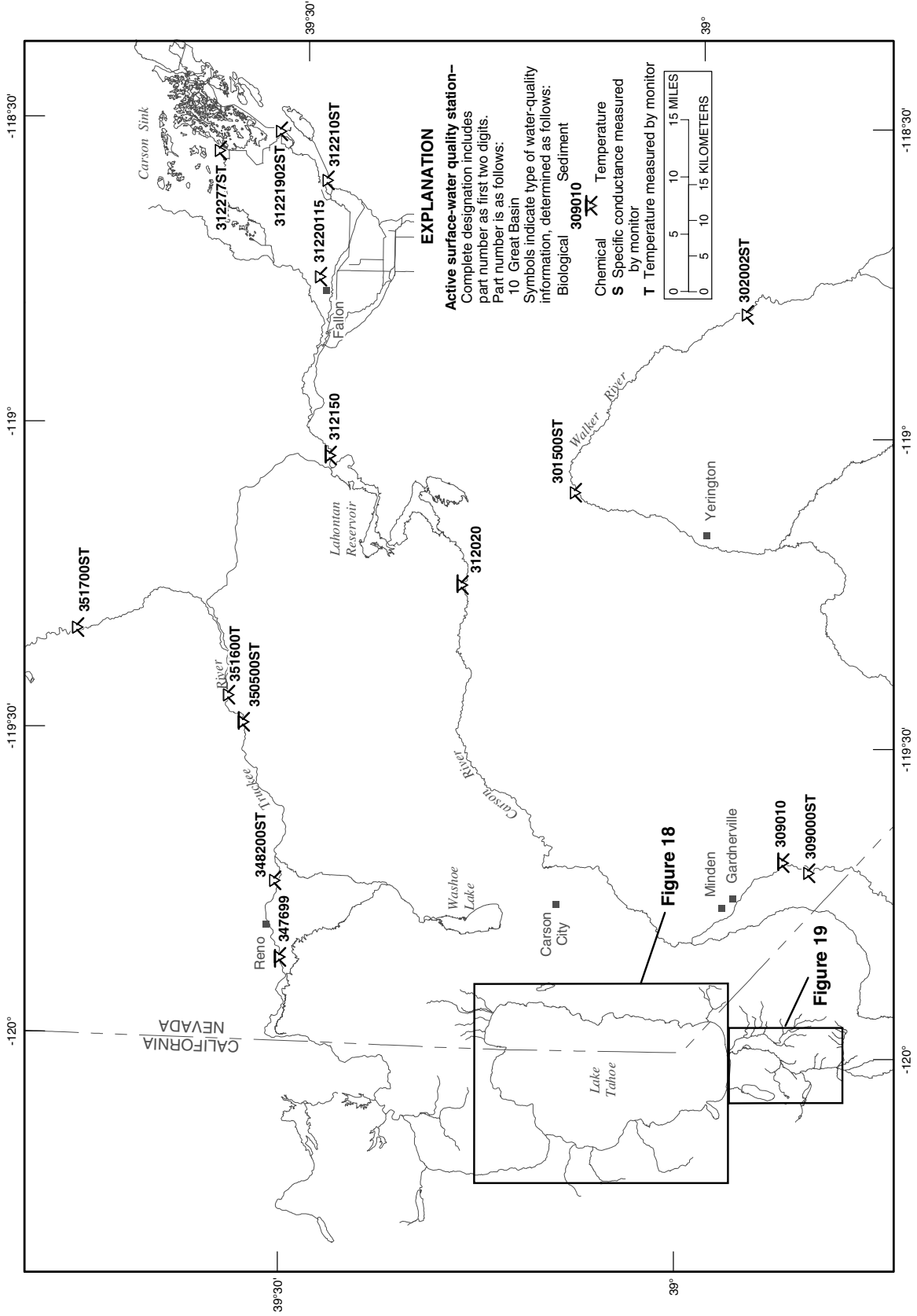


Figure 17. Surface-water quality stations, west-central Nevada.

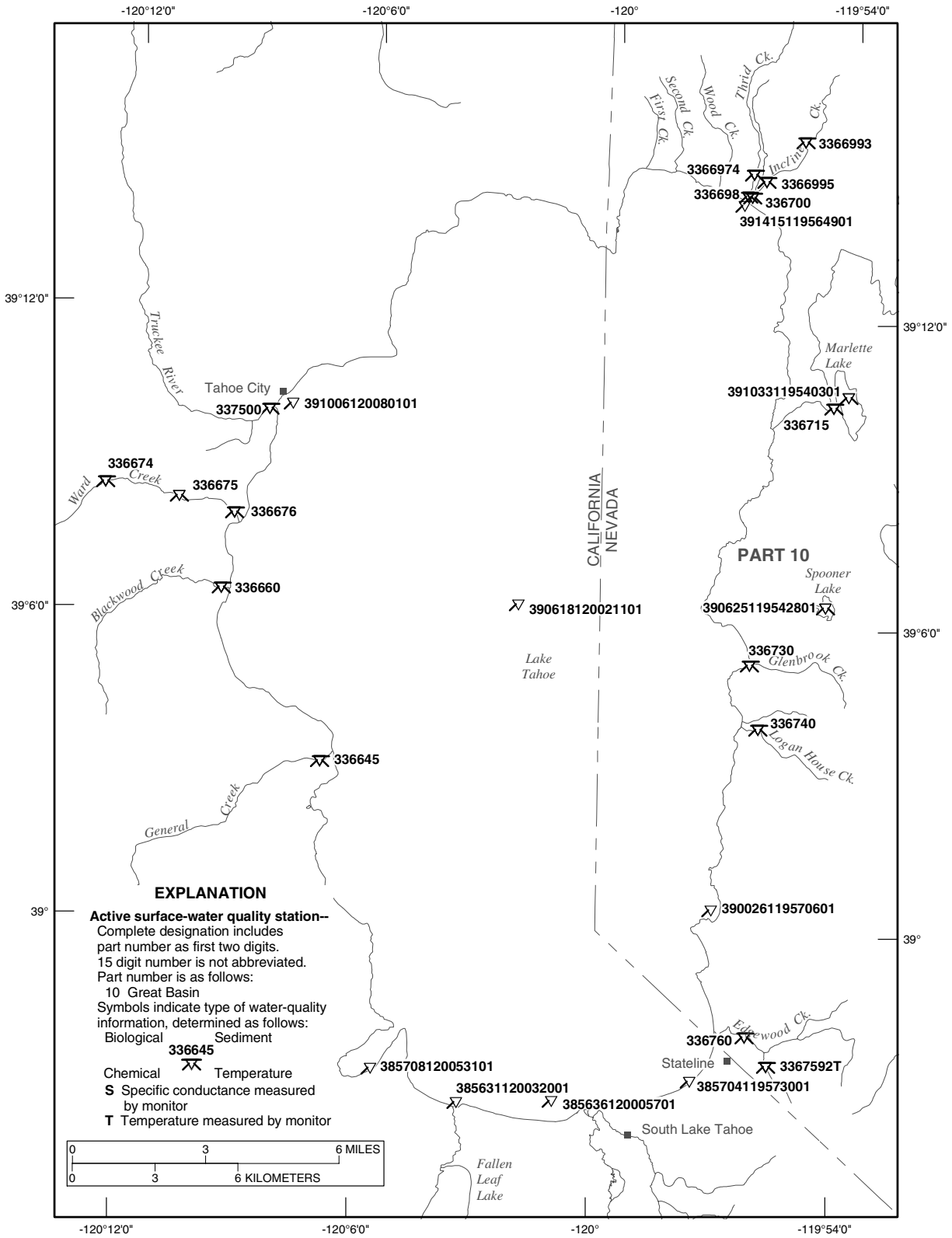


Figure 18. Surface-water quality stations, Lake Tahoe.

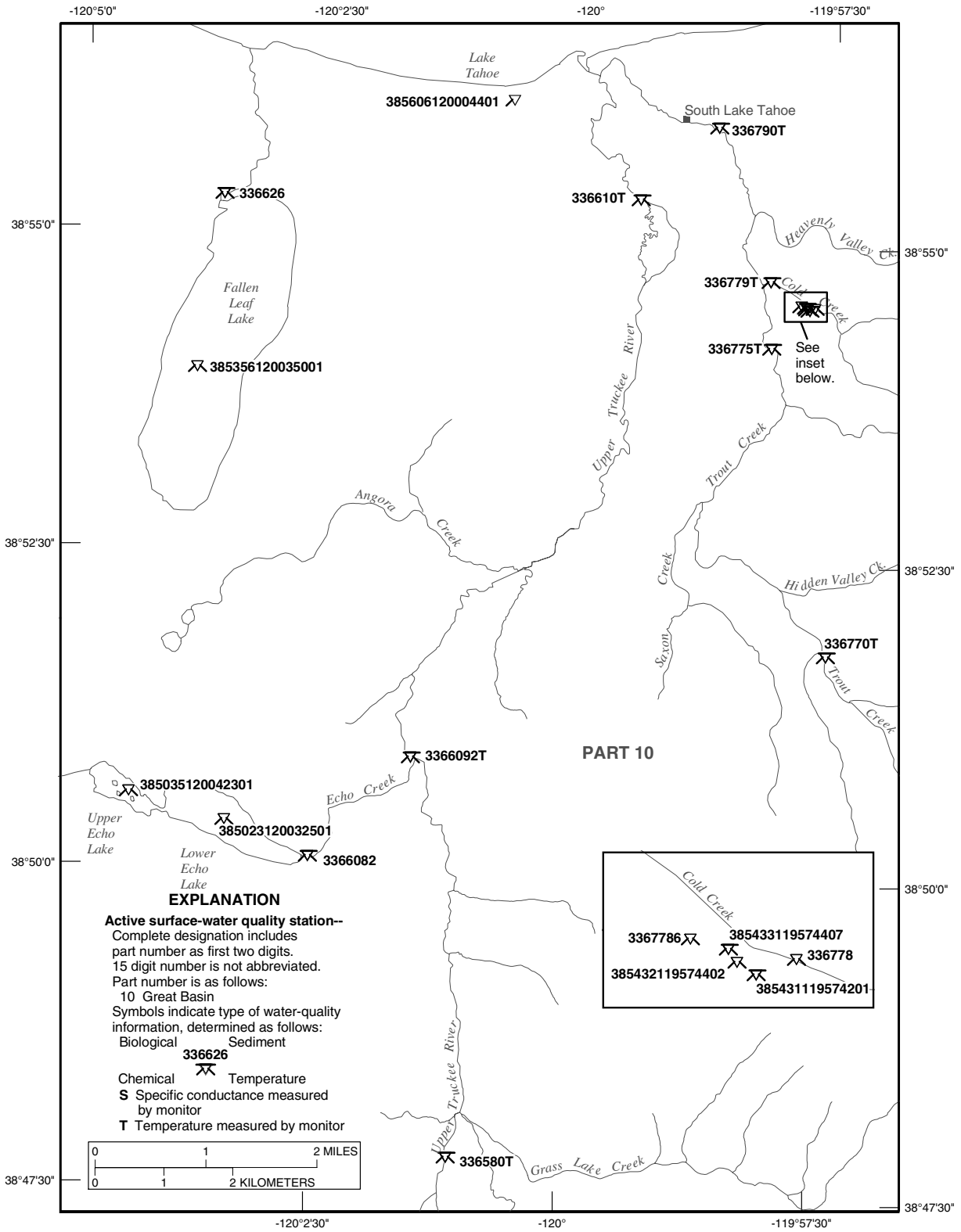


Figure 19. Surface-water quality stations, Upper Truckee River basin.

SURFACE WATER RECORDS

COLORADO RIVER BASIN

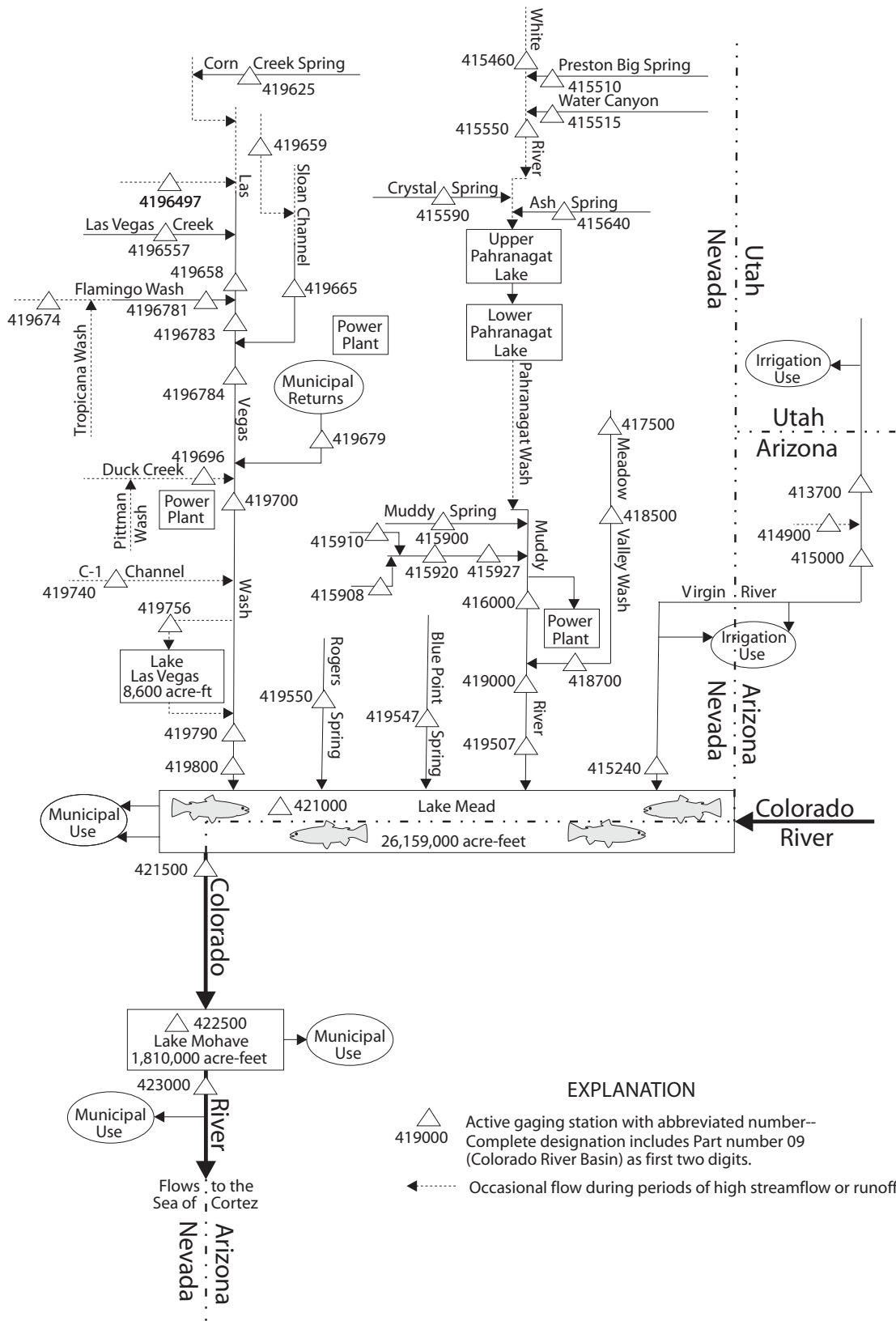


Figure 20. Schematic diagram of flow system and gaging stations in the Colorado River basin.

SURFACE-WATER RECORDS

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09413700 VIRGIN RIVER ABOVE THE NARROWS NEAR LITTLEFIELD, AZ

LOCATION.--Lat 36°55'16", long 113°49'52", in NE 1/4 SE 1/4 sec. 29, T.41 N., R.14 W., Mohave County, Hydrologic Unit 15010010, on right bank, 50 ft east of edge of roadway of I-15, 225 ft south of mile marker 15, 6.8 mi upstream from Littlefield, and 43 mi upstream from Lake Mead.

DRAINAGE AREA.--4,415 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,000 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. See schematic diagram of Colorado River Basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1, 1989, 61,000 ft³/s, on basis of slope-area measurement of peak flow at site about 1.0 mi downstream, due to failure of Quail Creek Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,200 ft³/s, August 16, gage height, 10.61 ft, from high water mark; no flow June 12 to July 25, and August 11, 13, and 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	51	87	97	48	160	29	28	16	0.00	71	21
2	205	43	85	96	56	147	21	36	36	0.00	144	18
3	278	58	83	92	73	117	24	28	23	0.00	43	11
4	226	51	83	90	66	115	24	29	9.3	0.00	18	116
5	95	62	88	86	57	105	19	43	1.6	0.00	4.9	45
6	89	60	87	94	72	94	24	36	0.04	0.00	0.49	69
7	75	62	92	94	73	96	30	27	0.03	0.00	0.08	48
8	63	65	92	88	59	89	27	35	1.1	0.00	0.41	26
9	49	540	95	84	69	101	25	36	2.7	0.00	0.24	17
10	38	391	91	77	82	95	26	29	2.4	0.00	0.03	16
11	42	154	95	87	106	89	27	25	0.12	0.00	0.00	12
12	36	114	98	105	97	83	29	29	0.00	0.00	0.13	11
13	43	95	95	85	168	83	25	24	0.00	0.00	0.00	8.3
14	36	86	86	93	272	67	38	21	0.00	0.00	0.00	7.0
15	29	91	84	84	138	61	50	18	0.00	0.00	6.6	9.4
16	27	86	88	82	104	61	93	12	0.00	0.00	217	12
17	30	78	94	75	102	340	61	50	0.00	0.00	27	10
18	27	82	118	61	110	174	39	43	0.00	0.00	63	6.3
19	24	83	117	58	99	110	53	22	0.00	0.00	81	7.6
20	29	75	99	65	99	80	39	14	0.00	0.00	59	7.4
21	32	75	99	57	83	73	31	11	0.00	0.00	29	8.5
22	37	77	105	65	76	55	36	8.5	0.00	0.00	48	8.6
23	40	69	103	63	70	42	55	6.7	0.00	0.00	254	12
24	42	72	102	64	72	44	88	7.2	0.00	0.00	59	12
25	46	72	96	58	80	38	66	9.1	0.00	0.00	153	13
26	41	87	93	55	278	45	63	6.1	0.00	0.19	67	12
27	59	71	92	54	157	41	35	11	0.00	11	29	12
28	98	75	97	53	146	34	30	12	0.00	5.4	19	9.2
29	66	76	97	58	---	32	26	6.0	0.00	2.0	16	12
30	50	78	98	47	---	29	24	7.1	0.00	0.01	31	12
31	49	---	95	49	---	28	---	3.2	---	177	26	---
TOTAL	2080	3079	2934	2316	2912	2728	1157	672.9	92.29	195.60	1466.88	589.3
MEAN	67.1	103	94.6	74.7	104	88.0	38.6	21.7	3.08	6.31	47.3	19.6
MAX	278	540	118	105	278	340	93	50	36	177	254	116
MIN	24	43	83	47	48	28	19	3.2	0.00	0.00	0.00	6.3
AC-FT	4130	6110	5820	4590	5780	5410	2290	1330	183	388	2910	1170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	87.4	115	120	107	122	114	117	80.7	14.3	50.9	43.2	98.6
MAX	145	212	216	172	180	194	209	162	49.3	153	81.5	376
(WY)	1999	1999	1999	1999	1999	2000	2001	2001	1999	1998	1999	1998
MIN	55.0	77.0	85.2	74.7	55.7	49.9	33.1	11.5	1.41	6.31	0.68	19.6
(WY)	2002	2002	2000	2003	2002	2002	2002	2002	2002	2003	2002	2003

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1998 - 2003

ANNUAL TOTAL	17277.60	20222.97	
ANNUAL MEAN	47.3	55.4	82.5
HIGHEST ANNUAL MEAN			128
LOWEST ANNUAL MEAN			46.2
HIGHEST DAILY MEAN	540	Nov 9	540
LOWEST DAILY MEAN	0.00	Jun 16	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 16	0.00
MAXIMUM PEAK FLOW			1200
MAXIMUM PEAK STAGE			10.61
ANNUAL RUNOFF (AC-FT)	34270	40110	59760
10 PERCENT EXCEEDS	95	102	197
50 PERCENT EXCEEDS	40	44	68
90 PERCENT EXCEEDS	0.10	0.00	2.7

VIRGIN RIVER BASIN

09413700 VIRGIN RIVER ABOVE THE NARROWS NEAR LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1998 to current year.

REMARKS.--In June 1998, station was established in cooperation with the Southern Nevada Water Authority to characterize the hydraulics and water quality of the Virgin River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
DEC 12...	0940	ENVIRONMENTAL	96	714	11.8	102	8.0	3000	--	6.0
MAR 25...	0840	ENVIRONMENTAL	36	713	12.5	127	8.3	3400	24.0	12.5
SEP 23...	0930	ENVIRONMENTAL	12	708	10.4	117	8.5	3400	--	17.0

VIRGIN RIVER BASIN

09414900 BEAVER DAM WASH AT BEAVER DAM, AZ

LOCATION.--Lat 36°54'07", long 113°55'58", in NW 1/4 NE 1/4 NE 1/4 sec. 5, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on upstream end of bridge pier at Beaver Dam, AZ.

DRAINAGE AREA.--575 mi².

PERIOD OF RECORD.--February 1993 to September 1994, October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,850 ft above NGVD of 1929, from bench mark on bridge.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s, February 10, 1993, gage height, 7.14 ft from rating curve extended above 2,220 ft³/s; minimum daily, 0.11 ft³/s, February 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 460 ft³/s, September 6, gage height, 7.34 ft; minimum daily, 0.86 ft³/s, August 30, 31, September 1-4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.0	1.3	1.6	2.0	3.0	1.6	1.8	1.6	1.4	1.4	0.86
2	1.4	0.94	1.3	1.6	2.0	2.2	1.6	1.8	1.6	1.4	1.4	0.86
3	1.4	1.00	1.5	1.7	2.0	2.2	1.6	1.8	1.5	1.4	1.4	0.86
4	1.4	1.0	1.5	1.7	2.0	2.2	1.6	1.8	1.5	1.4	1.4	0.86
5	1.4	1.1	1.5	1.7	2.0	2.2	1.6	1.9	1.5	1.4	e1.4	e0.90
6	1.2	1.1	1.5	1.7	2.0	2.2	1.5	1.9	1.5	1.4	e1.4	14
7	1.2	1.1	1.5	1.7	2.0	2.2	1.6	1.9	1.5	1.4	e1.4	e0.90
8	1.3	1.1	1.5	1.7	2.0	2.2	1.6	1.9	1.5	1.4	e1.4	e0.90
9	1.3	1.1	1.6	1.7	2.0	2.1	1.6	1.9	1.5	1.4	e1.4	e1.0
10	1.3	1.1	1.6	1.7	1.9	2.2	1.6	1.9	1.5	1.4	e1.3	1.0
11	1.3	1.1	1.6	1.7	1.9	2.2	1.6	1.9	1.5	1.4	1.3	1.1
12	1.3	1.1	1.5	1.8	1.9	2.2	1.5	1.9	1.5	1.4	1.3	1.1
13	1.3	1.0	1.5	1.8	1.9	2.2	1.5	1.9	1.5	1.4	1.3	1.1
14	1.3	1.1	1.5	1.9	1.9	2.2	1.5	1.9	1.5	1.4	1.3	1.1
15	1.3	1.3	1.5	1.8	1.9	2.1	1.5	1.9	1.5	1.4	1.3	1.1
16	1.2	1.3	1.5	1.9	1.9	4.4	1.4	1.9	1.5	1.4	1.3	1.1
17	1.1	1.3	1.6	1.9	1.9	4.5	1.4	1.8	1.5	1.3	1.4	1.1
18	1.1	1.3	1.6	1.9	1.9	1.9	1.6	1.9	1.5	1.3	1.3	1.1
19	1.1	1.2	1.6	1.9	1.9	2.0	1.5	1.9	1.5	1.3	1.3	1.1
20	1.1	1.2	1.6	2.0	1.9	2.0	1.6	1.9	1.4	1.3	1.4	1.1
21	1.1	1.3	1.6	2.1	1.9	2.0	1.6	1.9	1.4	1.2	1.4	1.1
22	1.1	1.4	1.6	2.1	1.9	2.0	1.6	1.9	1.4	1.2	1.7	1.1
23	1.0	1.4	1.6	2.1	1.8	2.1	1.6	1.9	1.4	1.3	e1.4	1.1
24	1.1	1.4	1.6	2.1	1.7	1.9	1.7	1.9	1.4	1.3	e1.3	1.1
25	1.1	1.3	1.6	2.1	1.8	1.8	1.7	1.9	1.4	1.3	e1.2	1.1
26	1.1	1.4	1.7	2.1	1.9	1.8	1.7	1.9	1.4	1.3	e1.0	1.0
27	1.1	1.4	1.7	2.2	2.0	1.7	1.7	1.9	1.4	1.4	0.91	1.0
28	1.0	1.4	1.7	2.0	2.0	1.7	1.7	1.9	1.4	1.4	0.96	1.0
29	1.0	1.4	1.7	2.0	---	1.7	1.7	2.0	1.4	1.4	0.94	1.0
30	1.0	1.3	1.6	2.0	---	1.6	1.8	1.9	1.4	1.4	0.86	1.0
31	1.0	---	1.6	2.0	---	1.6	---	1.6	---	1.4	0.86	---
TOTAL	36.8	36.14	48.3	58.2	53.9	68.3	47.8	58.2	44.1	42.2	39.63	43.64
MEAN	1.19	1.20	1.56	1.88	1.93	2.20	1.59	1.88	1.47	1.36	1.28	1.45
MAX	1.4	1.4	1.7	2.2	2.0	4.5	1.8	2.0	1.6	1.4	1.7	14
MIN	1.0	0.94	1.3	1.6	1.7	1.6	1.4	1.6	1.4	1.2	0.86	0.86
AC-FT	73	72	96	115	107	135	95	115	87	84	79	87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
MEAN	2.17	2.28	2.51	2.64	5.95	5.50	3.12	2.28	2.02	1.99	1.96	2.14
MAX (WY)	2.88	3.08	3.23	3.40	31.2	30.1	9.31	2.91	2.56	2.62	2.75	3.90
MIN (WY)	1.94	1.97	1.996	1.997	1.998	1.993	1.993	1.993	1.997	1.993	1.993	1.998
MIN (WY)	1.19	1.20	1.56	1.88	1.75	1.90	1.28	1.52	1.43	1.36	1.07	1.11
(WY)	2003	2003	2003	2003	2002	2002	2002	2002	2001	2003	2002	1993

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1993 - 2003

ANNUAL TOTAL	580.34	577.21	
ANNUAL MEAN	1.59	1.58	2.56
HIGHEST ANNUAL MEAN			4.96
LOWEST ANNUAL MEAN			1.58
HIGHEST DAILY MEAN	40	Sep 11	1730
LOWEST DAILY MEAN	0.48	Sep 10	0.11
ANNUAL SEVEN-DAY MINIMUM	0.65	Aug 11	0.65
MAXIMUM PEAK FLOW			460
MAXIMUM PEAK STAGE			7.34
ANNUAL RUNOFF (AC-FT)	1150	1140	1860
10 PERCENT EXCEEDS	2.1	2.0	3.0
50 PERCENT EXCEEDS	1.5	1.5	2.2
90 PERCENT EXCEEDS	0.98	1.1	1.5

e Estimated

VIRGIN RIVER BASIN
09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1930 - 2003	
ANNUAL TOTAL	38869		42464			
ANNUAL MEAN	106		116		237	
HIGHEST ANNUAL MEAN					697 1983	
LOWEST ANNUAL MEAN					100 1991	
HIGHEST DAILY MEAN	818	Nov 9	819	Aug 23	17000	Mar 3 1938
LOWEST DAILY MEAN	46	Aug 16	46	Jun 27	40	Aug 6 1966
ANNUAL SEVEN-DAY MINIMUM	47	Aug 12	47	Jun 25	41	Aug 3 1966
MAXIMUM PEAK FLOW			2080 Jul 31		61000 Jan 1 1989	
MAXIMUM PEAK STAGE			7.01 Jul 31		22.37 Jan 1 1989	
ANNUAL RUNOFF (AC-FT)	77100		84230		172000	
10 PERCENT EXCEEDS	157		170		415	
50 PERCENT EXCEEDS	99		97		146	
90 PERCENT EXCEEDS	51		50		61	

e Estimated

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: July 1949 to September 1969.

SPECIFIC CONDUCTANCE: October 1947 to March 1988.

WATER TEMPERATURE: October 1947 to March 1988.

SEDIMENT DATA: October 1947 to September 1968, October 1992 to September 1995.

REMARKS.--Data was collected in cooperation with the Southern Nevada Water Authority to characterize the hydraulics and water quality of the Virgin River Basin and to establish information on chemical loading into Lake Mead. Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (right) bank is generally more dilute than average, particularly at times of low streamflow; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of streamwide average (range of discharge, 60-230 ft³/s). Water temperature characteristically shows little or no variation from bank to bank. Detailed sampling information for period since June 1975 is available from U.S. Geological Survey, Carson City, Nevada.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,650 microsiemens/cm, August 21, 1966; minimum, 615 microsiemens/cm, May 27, 28, 30, 31, 1983.

WATER TEMPERATURE: Maximum, 33.5° C, July 7, 1953; minimum, 2.0°C January 4, 1949, January 4, 1950, January 4, 5, 1971.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, unfiltered, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, water filtered units/cm (50624)	UV absorbance, 280 nm, water filtered units/cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfiltered, standard units (00400)	Specific conductance, unfiltered, uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	
NOV	05...	1000 ENVIRONMENTAL	110	28	.031	.023	719	9.6	100	7.8	3250	--	14.0	
FEB	26...	1055 FIELD BLANK	--	<1.0	.003	.002	--	--	--	--	--	--	--	
	26...	1100 ENVIRONMENTAL	536	2300	.052	.039	709	9.4	95	7.7	3050	--	12.1	
MAY	27...	1100 ENVIRONMENTAL	59	2.2	.026	.020	713	10.1	132	7.8	3140	--	24.7	
SEP	03...	1200 ENVIRONMENTAL	59	190	.066	.051	705	6.5	87	7.7	3320	32.0	25.3	
Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water flt, mg/L as CaCO3 (29801)	Alkalinity, water flt, mg/L as CaCO3 (39086)	Bicarbonate, water flt, titr., mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap, at 180degC, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	
NOV	05...	305	88.3	24.1	304	298	284	343	412	.89	21.4	947	2430	.12
FEB	26...	.02	<.008	<.10	<.09	2	--	--	<.20	.01	<.13	<.2	<10	<.10
	26...	233	66.3	17.1	342	E280	227	276	467	.71	17.3	687	2090	.20
MAY	27...	354	104	28.6	266	232	294	356	349	1.0	15.9	1000	2350	E.08
SEP	03...	--	--	--	--	--	309	383	--	--	--	--	--	.20
Date	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, water, susp, mg/L (49570)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd, total, mg/L (00694)	Inorganic carbon, suspnd, total, mg/L (00688)	Organic carbon, suspnd, total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	E coli, m-TEC MF, water, col/100 mL (31633)	
NOV	05...	.30	<.04	1.31	E.005	.11	.13	.10	.20	2.7	.1	2.6	1.4	E30
FEB	26...	E.07	<.04	<.06	<.008	<.02	<.02	E.03	<.04	<.1	<.1	<.1	E.3	--
	26...	4.2	.05	.96	E.004	.04	.40	E.02	3.33	9.6	.3	9.3	1.9	520
MAY	27...	.12	E.03	E.05	<.008	<.02	.07	<.04	<.04	1.2	<.1	1.2	.7	48
SEP	03...	.78	E.04	1.28	.011	.11	.63	.12	.33	8.9	.3	8.5	1.5	E220

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal streptococci KF MF, col/ 100 mL (31673)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Selen- ium, water, fltrd, ug/L (01145)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	^a 2,4,5-T surrog, water, fltrd, percent recovry (99958)	2,4,5-T water, fltrd, ug/L (39742)	2,4-D water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)
NOV 05...	150	280	10.8	821	<30	367	2.0	3710	3.9	--	<.07	--	<.16
FEB 26...	--	--	<.3	<7	<10	<.5	<.5	<.20	<.1	--	<.07	--	<.16
26...	560	1730	8.6	819	<10	376	2.7	3150	3.8	--	<.07	--	<.32
MAY 27...	69	136	9.0	990	102	461	2.6	3800	6.0	81.7	--	<.009	<.02
SEP 03...	E230	E222	--	--	--	--	--	--	--	101	--	<.009	<.02
Date	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	2Methyl 4,6-di- nitro- phenol, wat flt 0.7u GF ug/L (49299)	3- Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308)	3-Keto- carbo- furan, water, fltrd, ug/L (50295)	Aceto- chlor, water, fltrd, ug/L (49260)	Acifluor- fen, water, fltrd 0.7u GF ug/L (49315)	Ala- chlor, water, fltrd, ug/L (46342)	Aldi- carb sulfone water, fltrd 0.7u GF ug/L (49313)	Aldi- carb sulf- oxide, wat flt 0.7u GF ug/L (49314)
NOV 05...	<.25	<.006	<.006	--	--	<.25	<.11	--	<.006	<.05	<.004	<.20	<.27
FEB 26...	<.25	<.006	<.006	--	--	<.25	<.11	--	<.006	<.05	<.004	<.20	<.27
26...	<.25	<.006	<.006	--	--	<.25	<.11	--	<.006	<.05	<.004	<.20	<.27
MAY 27...	<.02	<.006	E.002	<.04	<.008	--	<.006	<2	<.006	<.007	<.004	<.02	<.008
SEP 03...	<.02	<.006	<.006	<.04	<.008	--	<.006	<2	<.006	<.007	<.004	<.02	<.008
Date	Aldi- carb, water, fltrd 0.7u GF ug/L (49312)	alpha- HCH, water, fltrd, ug/L (34253)	^a alpha- HCH-d6, surrog, wat flt 0.7u GF percent recovry (91065)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	^a Barban, Sched. 2060/ surrog, wat flt pct rcv (90640)	^a BDMC, water, unfltrd percent recovry (99835)	Bendio- carb, water, fltrd, ug/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensul- furon, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd 0.7u GF ug/L (38711)	Broma- cil, water, fltrd, ug/L (04029)
NOV 05...	<.21	<.005	107	<.007	<.050	--	82.9	--	<.010	--	--	<.05	<.09
FEB 26...	<.21	<.005	88.9	<.007	<.050	--	67.2	--	<.010	--	--	<.05	<.09
26...	<.21	<.005	91.2	<.007	<.050	--	67.2	--	<.010	--	--	<.05	<.09
MAY 27...	<.04	<.005	90.4	<.007	<.050	84.9	--	<.03	<.010	<.004	<.02	<.01	<.03
SEP 03...	<.04	<.005	93.8	<.007	<.050	103	--	<.03	<.010	<.004	<.02	<.01	<.03
Date	Brom- oxynil, water, fltrd 0.7u GF ug/L (49311)	Butyl- ate, water, fltrd, ug/L (04028)	Caf- feine, water, fltrd, ug/L (50305)	^a Caf- feine- 13C, surrog, wat flt percent recovry (99959)	Car- baryl, water, fltrd 0.7u GF ug/L (49310)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (49309)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- amben methyl ester, water, fltrd, ug/L (61188)	Chlori- muron, water, fltrd, ug/L (50306)	Chloro- di- amino- s-tri- azine, wat flt ug/L (04039)	Chloro- thalo- nil, water, fltrd 0.7u GF ug/L (49306)	Chlor- pyrifos water, fltrd, ug/L (38933)
NOV 05...	<.07	<.002	--	--	<.080	<.041	<.15	<.020	<.21	--	--	<.25	<.005
FEB 26...	<.07	<.002	--	--	<.080	<.041	<.15	<.020	<.21	--	--	<.25	<.005
26...	<.07	<.002	--	--	<.080	<.041	<.24	<.020	<.21	--	--	<.25	<.005
MAY 27...	<.02	<.002	<.010	69.6	<.03	<.041	<.006	<.020	<.02	<.010	<.01	<.04	<.005
SEP 03...	<.02	<.002	.014	78.9	<.03	<.041	<.006	<.020	<.02	<.010	<.01	<.04	<.005

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	cis-Permethrin water fltrd 0.7u GF (82687)	Clopyr- alid, water, fltrd 0.7u GF (49305)	Cyana- zine, water, fltrd, ug/L (04041)	Cyclo- ate, water, fltrd, ug/L (04031)	Dacthal mono- acid, water, fltrd 0.7u GF (49304)	DCPA, water fltrd 0.7u GF (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	^a Diazi- non-d10 surrog. wat flt 0.7u GF percent recovry ug/L (91063)	Dicamba water fltrd 0.7u GF (38442)	Dichlo- benil, water, fltrd 0.7u GF (49303)	Di- chlor- prop, water, fltrd 0.7u GF (49302)	Diel- drin, water, fltrd, ug/L (39381)
NOV 05...	<.006	<.42	<.018	--	<.07	<.003	<.004	.013	135	<.11	<.09	<.12	<.005
FEB 26...	<.006	<.42	<.018	--	<.07	<.003	<.004	<.005	101	<.11	<.09	<.12	<.005
FEB 26...	<.006	<.42	<.018	--	<.07	<.003	<.004	.021	107	<.11	<.37	<.12	<.005
MAY 27...	<.006	<.01	<.018	<.01	<.01	<.003	<.004	<.005	96.5	<.01	--	<.01	<.005
SEP 03...	<.006	<.01	<.018	<.01	<.01	<.003	<.004	.005	100	<.01	--	<.01	<.005
Date	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphen- amid, water, fltrd, ug/L (04033)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	Diuron, water, fltrd 0.7u GF ug/L (49300)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenuron water, fltrd 0.7u GF ug/L (49297)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flumet- sulam, water, fltrd, ug/L (61694)
NOV 05...	<.09	--	<.02	<.12	<.002	<.009	<.005	<.07	<.009	<.005	<.005	<.007	--
FEB 26...	<.09	--	<.02	<.12	<.002	<.009	<.005	<.07	<.009	<.005	<.005	<.007	--
FEB 26...	<.09	--	<.02	<.12	<.002	<.009	<.005	<.07	<.009	<.005	<.005	<.007	--
MAY 27...	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01
SEP 03...	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01
Date	Fluo- meturon water fltrd 0.7u GF ug/L (38811)	Fonofos water, fltrd, ug/L (04095)	Imaza- quin, water, fltrd, ug/L (50356)	Imaze- thapyr, water, fltrd, ug/L (50407)	Imida- cloprid water, fltrd, ug/L (61695)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (38478)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- thion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta- laxyl, water, fltrd, ug/L (50359)	Methio- carb, water, fltrd 0.7u GF ug/L (38501)
NOV 05...	<.06	<.003	--	--	--	<.004	<.06	<.035	<.027	<.20	<.26	--	<.07
FEB 26...	<.06	<.003	--	--	--	<.004	<.06	<.035	<.027	<.20	<.26	--	<.07
FEB 26...	<.06	<.003	--	--	--	<.004	<.06	<.035	<.027	<.20	<.26	--	<.07
MAY 27...	<.03	<.003	<.02	<.02	<.007	<.004	E.01	<.035	<.027	<.02	<.01	<.02	<.008
SEP 03...	<.03	<.003	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
Date	Meth- omyl, water, fltrd 0.7u GF ug/L (49296)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Metsul- furon, water, fltrd, ug/L (61697)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	N-(4- Chloro- phenyl) -N'- urea, methyl- fltrd 0.7u GF ug/L (61692)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)
NOV 05...	<.22	<.006	<.013	<.006	--	<.002	--	<.007	<.07	--	<.04	<.28	<.16
FEB 26...	<.22	<.006	<.013	<.006	--	<.002	--	<.007	<.07	--	<.04	<.28	<.16
FEB 26...	<.22	<.006	<.013	<.006	--	<.002	--	<.007	<.07	--	<.08	<.28	<.16
MAY 27...	<.004	<.045	<.013	<.006	<.03	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01
SEP 03...	<.004	<.006	<.013	<.006	<.03	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd, 0.7u GF ug/L (82669)	Pendi-methalin, water, fltrd, 0.7u GF ug/L (82683)	Phorate, water, fltrd, 0.7u GF ug/L (82664)	Picloram, water, fltrd, 0.7u GF ug/L (49291)	Prometon, water, fltrd, ug/L (04037)	Pronamide, water, fltrd, 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Propham, water, fltrd, 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)
NOV 05...	<.003	<.010	<.004	<.022	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	--
FEB 26...	<.003	<.010	<.004	<.022	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	--
FEB 26...	<.003	<.010	<.004	<.022	<.011	<.09	E.01	<.004	<.010	<.011	<.02	<.22	--
MAY 27...	<.003	<.010	<.004	<.022	<.011	<.02	M	<.004	<.010	<.011	<.02	<.010	<.02
SEP 03...	<.003	<.010	<.004	<.022	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02
Date	Propoxur, water, fltrd, 0.7u GF ug/L (38538)	Siduron, water, fltrd, ug/L (38548)	Silvex, water, fltrd, ug/L (39762)	Simazine, water, fltrd, ug/L (04035)	Sulfometuron, water, fltrd, ug/L (50337)	Tebu-thiuron, water, fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, ug/L (82665)	Terbacil, water, fltrd, ug/L (04032)	Terbufos, water, fltrd, ug/L (82675)	Thio-bencarb, water, fltrd, ug/L (82681)	Tri-allate, water, fltrd, ug/L (82678)	Tri-clopyr, water, fltrd, ug/L (49235)	Tri-fluralin, water, fltrd, ug/L (82661)
NOV 05...	<.12	--	<.03	<.005	--	<.02	<.034	--	<.02	<.005	<.002	<.07	<.009
FEB 26...	<.12	--	<.03	<.005	--	<.02	<.034	--	<.02	<.005	<.002	<.07	<.009
FEB 26...	<.12	--	<.04	<.005	--	<.02	<.034	--	<.02	<.005	<.002	<.56	<.009
MAY 27...	<.008	<.02	--	<.005	<.009	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009
SEP 03...	<.008	M	--	<.005	<.009	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009
Date	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)	Suspnd. sediment, sieve percent <.063mm (70331)										
NOV 05...	247	73	32										
FEB 26...	--	--	--										
FEB 26...	5030	7280	76										
MAY 27...	--	--	--										
SEP 03...	469	75	96										

Remark Codes Used in This report:

< -- Less than

E -- Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

M -- Presence verified, not quantified

^a Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical methods.

VIRGIN RIVER BASIN

09415240 VIRGIN RIVER NEAR OVERTON, NV

LOCATION.--Lat 36°34'59", long 114°19'27", in SW 1/4 SW 1/4 sec. 31, T.15 S., R.69 E., Clark County, Hydrologic Unit 15010010, in Lake Mead National Recreation Area, on right bank, .25 mi upstream of Lake Mead, and 4 mi east of Overton, NV.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--January to September 2003.

GAGE.--Water-stage recorder. Elevation of gage is 1,230 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge during the period January to September, 1,060 ft³/s, August 24, gage height, 5.58 ft, from high water mark; no flow many days during summer months.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e168	95	260	53	49	8.1	0.00	4.5	33
2	---	---	---	e162	104	322	49	53	7.2	0.00	14	25
3	---	---	---	e164	118	232	52	60	9.2	0.00	37	26
4	---	---	---	e160	127	208	53	64	11	0.00	23	15
5	---	---	---	e156	129	198	52	55	5.1	0.00	17	53
6	---	---	---	e154	118	184	38	66	2.4	0.00	1.1	63
7	---	---	---	e150	132	170	45	65	5.4	0.00	0.00	69
8	---	---	---	e142	136	159	65	70	3.2	0.00	0.00	43
9	---	---	---	e150	119	156	63	69	2.0	0.00	0.00	29
10	---	---	---	152	127	150	68	80	1.6	0.00	0.00	21
11	---	---	---	121	119	146	60	69	0.00	0.00	0.00	19
12	---	---	---	125	134	107	63	66	0.00	0.00	0.00	22
13	---	---	---	152	189	104	70	71	0.00	0.00	0.00	20
14	---	---	---	150	368	105	66	61	0.00	0.00	0.00	e22
15	---	---	---	155	387	86	64	52	0.00	0.00	0.00	23
16	---	---	---	143	228	111	66	39	0.00	0.00	13	20
17	---	---	---	145	198	178	93	43	0.00	0.00	168	18
18	---	---	---	138	182	567	89	39	0.00	0.00	25	6.5
19	---	---	---	126	181	231	76	43	0.00	0.00	29	8.1
20	---	---	---	105	165	173	84	33	0.00	0.00	47	5.0
21	---	---	---	105	160	150	77	21	0.00	0.00	23	2.7
22	---	---	---	112	147	107	48	18	0.00	0.00	19	6.6
23	---	---	---	112	142	94	53	18	0.00	0.00	85	10
24	---	---	---	115	140	96	63	17	0.00	0.00	552	24
25	---	---	---	122	126	91	105	15	0.00	0.00	199	29
26	---	---	---	122	186	82	82	19	0.00	0.00	176	31
27	---	---	---	121	451	90	64	17	0.00	0.00	58	28
28	---	---	---	100	305	91	51	17	0.00	0.00	38	16
29	---	---	---	102	---	75	45	14	0.00	0.00	27	17
30	---	---	---	106	---	64	52	8.6	0.00	0.00	23	13
31	---	---	---	92	---	67	---	6.9	---	0.00	21	---
TOTAL	---	---	---	4127	5013	4854	1909	1318.5	55.20	0.00	1599.60	717.9
MEAN	---	---	---	133	179	157	63.6	42.5	1.84	0.000	51.6	23.9
MAX	---	---	---	168	451	567	105	80	11	0.00	552	69
MIN	---	---	---	92	95	64	38	6.9	0.00	0.00	0.00	2.7
AC-FT	---	---	---	8190	9940	9630	3790	2620	109	0.00	3170	1420

e Estimated

WHITE RIVER BASIN

09415460 WHITE RIVER NEAR RED MOUNTAIN NEAR PRESTON, NV

LOCATION.--Lat 38°56'07", long 115°17'51", in NE 1/4 SW 1/4 sec. 2, T.12 N., R.59 E., Nye County, Hydrologic Unit 15010011, on right bank near US Forest Service campground/picnic area, about 8.0 miles west of U.S. Highway 6, and about 14.5 miles northwest of Preston.

DRAINAGE AREA.--28.2 mi² (approximately).

PERIOD OF RECORD.--January to September 2003.

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above NGVD of 1929, from topographic map

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES PERIOD OF RECORD.--Maximum discharge, 18 ft³/s, May 12, 2003, gage height, 4.95 ft; minimum daily, 0.62 ft³/s, February 3, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s, May 12, gage height, 4.95 ft; minimum daily, 0.62 ft³/s, February 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	0.90	1.3	3.6	6.5	2.9	1.7	1.1
2	---	---	---	---	1.0	0.85	1.3	3.6	6.2	2.9	1.8	1.1
3	---	---	---	---	0.62	0.95	1.3	3.5	6.0	2.8	1.7	1.1
4	---	---	---	---	0.85	0.97	1.3	3.5	5.9	2.8	1.6	1.1
5	---	---	---	---	0.84	0.91	1.3	3.4	5.8	2.7	1.6	1.1
6	---	---	---	---	0.79	0.96	1.3	3.4	5.6	2.6	1.5	1.2
7	---	---	---	---	0.84	0.96	1.5	4.0	5.3	2.5	1.5	1.2
8	---	---	---	---	0.89	0.97	1.4	4.5	5.1	2.5	1.5	1.1
9	---	---	---	---	0.89	0.99	1.4	4.5	4.8	2.5	1.4	1.1
10	---	---	---	---	0.94	1.0	1.5	5.4	4.5	2.5	1.4	1.1
11	---	---	---	---	1.0	1.0	1.5	7.4	4.5	2.4	1.4	1.1
12	---	---	---	---	1.1	1.0	1.6	11	4.3	2.4	1.3	1.0
13	---	---	---	---	1.5	1.1	1.6	14	4.2	2.4	1.3	1.0
14	---	---	---	---	1.2	1.1	1.7	12	4.0	2.3	1.3	e0.99
15	---	---	---	1.0	1.0	1.2	1.8	9.8	4.0	2.2	1.3	0.95
16	---	---	---	0.96	0.95	1.2	1.7	9.6	3.9	2.2	1.5	0.95
17	---	---	---	1.0	0.94	1.2	1.8	9.1	3.8	2.2	1.3	0.97
18	---	---	---	1.0	0.94	1.1	1.9	8.4	3.6	2.2	1.2	1.0
19	---	---	---	1.0	0.94	1.1	1.9	8.0	3.5	2.2	1.2	1.0
20	---	---	---	1.0	1.00	1.1	2.1	7.7	3.5	2.1	1.2	0.99
21	---	---	---	1.0	0.97	1.1	2.4	7.8	3.4	2.1	1.7	0.97
22	---	---	---	0.96	1.00	1.1	2.5	8.1	3.4	2.1	1.5	0.95
23	---	---	---	1.0	0.96	1.1	2.6	8.3	3.3	2.1	1.3	0.94
24	---	---	---	1.0	1.0	1.1	3.1	8.3	3.3	2.1	1.2	0.93
25	---	---	---	1.0	1.1	1.2	3.7	8.4	3.3	2.1	1.2	0.93
26	---	---	---	1.0	0.96	1.2	3.9	8.0	3.3	2.1	1.2	0.93
27	---	---	---	1.0	0.90	1.2	3.7	7.7	3.2	2.0	1.2	0.92
28	---	---	---	1.1	0.93	1.1	3.7	8.1	3.1	1.9	1.2	0.91
29	---	---	---	1.0	---	1.1	3.9	7.9	3.0	1.8	1.2	0.91
30	---	---	---	1.0	---	1.2	3.8	7.4	3.0	1.7	1.1	0.91
31	---	---	---	1.0	---	1.3	---	6.9	---	1.7	1.1	---

e Estimated

VIRGIN RIVER BASIN

09415510 PRESTON BIG SPRING NEAR PRESTON, NV

LOCATION.--Lat 38°55'38", long 115°04'55", in SE 1/4 NE 1/4 sec.2, T.12 N., R.61 E., White Pine County, Hydrologic Unit 15010011, 1.0 mi northwest of Preston.

DRAINAGE AREA--Indeterminate.

PERIOD OF RECORD.--May 1947, January, July, August 1982, October, November 1985, 1987-1999 (discharge measurements only), December 1982 to September 1985, February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10 ft³/s, April 8, 1999, gage height, 2.24 ft; minimum daily, 6.7 ft³/s, several days March and April 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.7 ft³/s, June 15, gage height, 1.59 ft; minimum daily, 6.9 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	7.7	7.4	e7.5	8.0	7.0	e7.3	e7.5	e7.9	7.8	7.9	e7.8
2	7.4	e7.6	7.4	e7.5	8.1	6.9	e7.3	e7.5	e7.9	7.8	7.8	e7.8
3	7.4	e7.6	7.4	e7.4	e7.5	6.9	e7.4	e7.5	e7.9	8.2	7.9	e7.8
4	e7.5	7.5	7.4	e7.4	e7.5	7.0	e7.4	7.4	e7.9	7.9	7.9	e7.8
5	e7.5	7.6	7.0	e7.3	8.1	7.0	7.3	7.5	8.0	7.8	7.9	e7.8
6	e7.5	7.6	7.2	e7.3	7.9	6.9	e7.3	7.5	8.0	7.9	7.9	e7.8
7	e7.5	7.7	7.4	7.5	7.9	6.9	e7.3	7.6	7.9	7.9	7.9	e7.8
8	e7.5	7.7	7.4	7.6	8.0	6.9	e7.4	7.6	8.0	7.9	7.9	e7.8
9	e7.5	7.5	7.4	7.7	8.0	6.9	e7.4	7.7	8.1	7.8	7.8	e7.8
10	e7.6	7.4	7.3	7.8	8.0	6.9	e7.4	7.5	8.0	7.8	7.8	7.8
11	e7.6	7.4	7.2	7.9	7.7	7.0	e7.4	7.4	7.9	7.8	e7.8	7.6
12	e7.6	7.4	7.2	e7.5	7.5	6.9	e7.4	7.5	8.0	8.0	e7.8	7.8
13	e7.6	7.4	7.4	e7.5	7.6	6.9	e7.4	7.4	7.9	8.2	e7.8	e7.8
14	e7.6	7.5	7.5	e7.4	7.5	6.9	7.4	7.5	8.1	8.2	e7.9	e7.8
15	e7.6	7.5	7.5	e7.4	7.5	6.9	7.5	7.5	8.2	8.0	e7.9	e7.8
16	7.5	7.5	e7.5	e7.4	7.5	6.9	e7.5	7.7	8.0	8.0	e7.9	e7.8
17	7.7	7.5	e7.4	e7.5	7.6	6.9	e7.5	7.7	8.2	8.1	e7.8	e7.8
18	7.7	7.6	e7.4	e7.5	7.5	6.9	7.4	7.5	8.1	7.9	e7.8	e7.8
19	7.7	7.6	e7.4	e7.5	7.5	7.0	7.5	7.5	8.2	8.0	e7.8	7.6
20	7.6	e7.6	e7.5	e7.5	7.5	7.1	e7.5	7.6	8.1	8.0	e7.8	7.6
21	7.6	e7.6	e7.5	e7.4	7.5	7.2	e7.5	7.8	8.1	7.9	e7.9	7.7
22	7.6	e7.6	e7.5	e7.4	7.5	7.2	7.5	7.7	8.1	8.0	e7.9	7.8
23	7.6	e7.6	e7.5	e7.4	7.4	7.3	7.3	7.7	8.0	8.0	e7.9	7.8
24	7.6	e7.5	e7.5	e7.4	7.4	7.3	7.4	7.7	8.0	7.9	e7.8	7.7
25	7.6	e7.5	e7.4	e7.3	7.4	7.4	7.5	7.7	7.9	8.1	e7.8	7.6
26	7.6	e7.5	e7.4	e7.3	7.3	7.4	7.3	7.8	7.9	8.2	e7.8	7.6
27	7.6	e7.5	e7.4	e7.3	7.0	e7.4	7.4	7.7	7.9	8.2	e7.8	7.7
28	7.6	e7.4	e7.5	7.8	6.9	e7.4	e7.4	7.7	7.9	8.1	e7.8	7.7
29	7.6	7.4	e7.5	7.9	---	e7.3	e7.4	7.9	8.0	7.9	e7.8	7.6
30	7.6	7.4	e7.6	7.9	---	e7.3	e7.4	8.0	7.9	7.9	e7.8	7.7
31	7.7	---	e7.6	8.0	---	e7.3	---	8.0	---	7.9	e7.8	---
TOTAL	234.8	225.9	229.7	233.2	212.8	219.2	222.1	236.3	240.0	247.1	243.1	232.3
MEAN	7.57	7.53	7.41	7.52	7.60	7.07	7.40	7.62	8.00	7.97	7.84	7.74
MAX	7.7	7.7	7.6	8.0	8.1	7.4	7.5	8.0	8.2	8.2	7.9	7.8
MIN	7.4	7.4	7.0	7.3	6.9	6.9	7.3	7.4	7.9	7.8	7.8	7.6
AC-FT	466	448	456	463	422	435	441	469	476	490	482	461

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003			
MEAN	7.63	7.61	7.86	7.71	7.58	7.61	7.59	7.41	7.71	7.77	7.67	7.57	7.81	7.77	8.52	8.23	7.95	8.09	8.02	7.95	8.78	8.66	7.84	7.98
MAX	7.81	7.77	8.52	8.23	7.95	8.09	8.02	7.95	8.78	8.66	7.84	7.98	7.81	7.77	8.52	8.23	7.95	8.09	8.02	7.95	8.78	8.66	7.84	7.98
(WY)	1985	2001	1983	1983	1983	2000	1985	1985	1985	1985	2003	2000	1985	1985	1983	1983	1983	2000	1985	1985	2002	2002	2002	1985
MIN	7.32	7.34	7.26	6.96	6.99	6.83	6.89	6.88	7.00	7.35	7.41	7.22	7.32	7.34	7.26	6.96	6.99	6.83	6.89	6.88	7.00	7.35	7.41	7.22
(WY)	1984	1984	1984	1984	1984	1984	1984	2002	2002	2002	2002	1985	1984	1984	1984	1984	1984	1984	1984	2002	2002	2002	2002	1985

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1983 - 2003

ANNUAL TOTAL	2697.1	2776.5	
ANNUAL MEAN	7.39	7.61	7.60
HIGHEST ANNUAL MEAN			7.98 1985
LOWEST ANNUAL MEAN			7.24 1984
HIGHEST DAILY MEAN	7.8 Jan 1	8.2 Jun 15	9.2 Jun 25 1985
LOWEST DAILY MEAN	6.7 May 16	6.9 Feb 28	6.7 Mar 18 1984
ANNUAL SEVEN-DAY MINIMUM	6.8 May 20	6.9 Mar 12	6.7 Mar 30 1984
MAXIMUM PEAK FLOW		8.7 Jun 15	10 Apr 8 1999
MAXIMUM PEAK STAGE		1.59 Jun 15	2.24 Apr 2 2000
ANNUAL RUNOFF (AC-FT)	5350	5510	5500
10 PERCENT EXCEEDS	7.7	8.0	8.0
50 PERCENT EXCEEDS	7.4	7.6	7.6
90 PERCENT EXCEEDS	7.0	7.3	7.0

e Estimated

WHITE RIVER VALLEY

09415515 WATER CANYON CREEK NEAR PRESTON, NV

LOCATION.--Lat 38°59'16", long 114°57'27", in SW 1/4 NW 1/4 sec.13, T.13 N., R.62 E., White Pine County, Hydrologic Unit 15010011, on right bank, and 7 miles northeast of Preston.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--May 1983 to September 1987, March 1990 to December 1994, April to September 2003.

GAGE.--Data collection platform (DCP). Elevation of gage is 6,400 ft above sea level, from USGS 1:24,000 Sawmill Canyon, NV. May 1983 to September 1987, continuous recording gage. March 1990 to December 1994, continuous recording gage. April 24, 2003 up to current water year, DCP.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft³/s, August 16, 1984, gage height 5.92 ft; minimum daily discharge 0.01 ft³/s, December 23, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2.6 ft³/s, September 21, gage height 4.45; minimum daily discharge, 0.18 ft³/s, July 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	0.53	0.84	1.2	0.42	0.77
2	---	---	---	---	---	---	---	0.53	0.98	0.82	0.34	0.77
3	---	---	---	---	---	---	---	0.52	1.00	0.86	0.50	0.94
4	---	---	---	---	---	---	---	0.50	0.86	0.95	0.48	1.5
5	---	---	---	---	---	---	---	0.50	0.85	0.97	e0.67	1.4
6	---	---	---	---	---	---	---	0.50	1.1	0.83	e0.86	0.79
7	---	---	---	---	---	---	---	0.53	1.5	0.62	0.92	0.74
8	---	---	---	---	---	---	---	0.56	1.1	0.55	0.96	0.71
9	---	---	---	---	---	---	---	e0.55	0.90	0.52	0.92	0.70
10	---	---	---	---	---	---	---	e0.55	0.96	0.58	0.91	0.70
11	---	---	---	---	---	---	---	e0.55	1.1	0.58	0.92	0.63
12	---	---	---	---	---	---	---	0.55	1.2	0.62	0.94	0.63
13	---	---	---	---	---	---	---	0.57	1.2	0.71	0.94	0.64
14	---	---	---	---	---	---	---	0.59	1.2	0.59	0.92	e0.64
15	---	---	---	---	---	---	---	0.58	1.2	0.58	0.97	0.64
16	---	---	---	---	---	---	---	0.58	1.3	0.66	1.1	0.65
17	---	---	---	---	---	---	---	0.58	1.3	0.66	1.2	0.83
18	---	---	---	---	---	---	---	0.57	1.6	0.93	1.1	0.73
19	---	---	---	---	---	---	---	0.56	1.6	0.93	0.92	0.71
20	---	---	---	---	---	---	---	0.55	1.4	0.77	0.84	0.92
21	---	---	---	---	---	---	---	0.55	1.1	0.34	0.83	1.1
22	---	---	---	---	---	---	---	0.55	1.1	0.24	0.88	0.90
23	---	---	---	---	---	---	---	0.55	1.2	0.26	0.81	0.85
24	---	---	---	---	---	---	0.56	0.56	1.4	0.18	1.0	0.89
25	---	---	---	---	---	---	0.52	0.56	1.4	0.18	1.3	0.88
26	---	---	---	---	---	---	0.49	0.55	1.4	0.21	1.2	0.88
27	---	---	---	---	---	---	0.49	0.58	1.4	0.23	0.96	0.89
28	---	---	---	---	---	---	0.49	0.63	1.2	0.20	1.00	0.92
29	---	---	---	---	---	---	0.51	0.66	1.3	0.23	0.93	0.94
30	---	---	---	---	---	---	0.53	0.69	1.4	0.23	0.79	0.98
31	---	---	---	---	---	---	---	0.70	---	0.39	0.76	---
TOTAL	---	---	---	---	---	---	---	17.53	36.09	17.62	27.29	25.27
MEAN	---	---	---	---	---	---	---	0.57	1.20	0.57	0.88	0.84
MAX	---	---	---	---	---	---	---	0.70	1.6	1.2	1.3	1.5
MIN	---	---	---	---	---	---	---	0.50	0.84	0.18	0.34	0.63
AC-FT	---	---	---	---	---	---	---	35	72	35	54	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

MEAN	2.55	1.90	1.63	1.47	1.34	1.65	1.70	1.46	2.08	2.48	2.44	2.33
MAX	5.97	4.08	3.37	2.67	2.68	3.72	3.55	4.00	7.22	10.8	9.14	7.43
(WY)	1984	1984	1984	1984	1984	1986	1986	1986	1983	1983	1983	1983
MIN	0.47	0.48	0.13	0.21	0.33	0.38	0.37	0.24	0.41	0.38	0.46	0.42
(WY)	1991	1993	1991	1991	1991	1992	1990	1991	1991	1991	1992	1990

SUMMARY STATISTICS

WATER YEARS 1983 - 2003

ANNUAL MEAN	1.83	
HIGHEST ANNUAL MEAN	3.98	1984
LOWEST ANNUAL MEAN	0.43	1991
HIGHEST DAILY MEAN	16	Jul 30 1983
LOWEST DAILY MEAN	0.01	Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	0.02	Dec 22 1990
MAXIMUM PEAK FLOW	90	Aug 16 1984
MAXIMUM PEAK STAGE	5.92	Aug 16 1984
ANNUAL RUNOFF (AC-FT)	1330	
10 PERCENT EXCEEDS	3.9	
50 PERCENT EXCEEDS	1.4	
90 PERCENT EXCEEDS	0.37	

e Estimated

VIRGIN RIVER BASIN
09415550 WHITE RIVER NEAR LUND, NV

LOCATION.--Lat 38°38'17", long 115°05'32", in NE 1/4 sec.14, T.9 N., R.61 E., Nye County, Hydrologic Unit 15010011, on right bank, 1 mi west of Hardy Springs, and 17 mi south of Lund.

DRAINAGE AREA.--703 mi².

PERIOD OF RECORD.--September 1990 to September 1994, December 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft³/s, March 3, 2000, gage height, 2.24 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	e0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	e0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	e0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	e0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	e0.00	e0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	e0.00	e0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	e0.00	e0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

MEAN	0.000	0.000	0.000	0.000	0.48	3.43	0.32	0.000	0.002	0.000	0.000	0.000
MAX	0.001	0.000	0.000	0.000	1.42	11.7	1.46	0.000	0.018	0.000	0.000	0.000
(WY)	2001	1991	1991	1991	2000	2000	1993	1991	1993	1991	1991	1991
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1991	1991	1991	1991	1991	1994	1991	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1990 - 2003	
ANNUAL TOTAL	0.00		0.00			
ANNUAL MEAN	0.000		0.000		0.25	
HIGHEST ANNUAL MEAN					1.00 1993	
LOWEST ANNUAL MEAN					0.000 1994	
HIGHEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	42	Mar 10 2000
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
MAXIMUM PEAK FLOW					44 Mar 3 2000	
MAXIMUM PEAK STAGE					3.26 Mar 8 1993	
ANNUAL RUNOFF (AC-FT)	0.00		0.00		179	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

VIRGIN RIVER BASIN

09415590 CRYSTAL SPRING NEAR HIKO, NV

LOCATION.--Lat 37°31'55", long 115°13'54", in SE 1/4 NE 1/4 sec.10, T.5 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on right bank, 75 ft south of State Highway 25, 200 ft southeast of junction of State Highway 38, and 4.5 mi south of Hiko.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1985 to September 1988, March 1990 to September 1994, December 1998 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 3,800 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversion for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft³/s, June 29, 1999, gage height, 1.39 ft; minimum daily, 1.0 ft³/s, September 24, 27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s, September 17, gage height, 1.31 ft; minimum daily, 3.3 ft³/s, June 10, 11, 12, 24, 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	13	13	13	13	13	13	12	13	13	3.5
2	13	12	13	13	13	13	13	13	12	13	12	3.5
3	12	12	13	13	13	13	13	13	13	13	4.3	6.4
4	12	12	13	13	13	13	13	9.6	13	13	3.5	13
5	12	12	13	13	13	13	13	7.2	13	13	3.5	13
6	12	12	13	13	13	13	13	7.4	13	13	3.6	13
7	12	12	13	13	13	13	13	8.3	6.9	13	6.8	13
8	12	12	13	13	13	13	13	8.5	3.4	13	13	13
9	12	12	13	13	13	13	9.0	8.6	3.4	13	13	13
10	12	13	13	13	13	13	6.5	8.6	3.3	13	13	13
11	12	13	13	13	13	8.8	6.6	8.8	3.3	13	13	13
12	12	13	13	13	13	6.1	6.7	9.0	3.3	13	13	8.9
13	12	13	13	13	13	6.1	6.7	9.5	3.5	13	13	3.7
14	12	13	13	13	13	6.1	6.8	12	3.4	13	13	3.7
15	12	13	13	13	13	6.1	6.9	13	3.4	13	13	3.8
16	12	13	13	13	13	6.1	6.9	13	3.4	13	13	3.8
17	12	13	13	13	13	6.3	6.9	13	7.1	13	13	11
18	12	13	13	13	13	6.4	9.7	13	13	13	13	13
19	12	13	13	13	13	6.4	13	13	13	13	13	13
20	12	13	13	13	13	11	13	13	13	8.3	13	13
21	12	13	13	13	13	13	13	13	13	3.5	13	13
22	12	13	13	13	13	13	13	13	13	3.4	13	13
23	12	13	13	13	13	13	13	13	8.8	3.4	13	13
24	12	13	13	13	13	13	13	13	3.3	3.4	13	13
25	12	13	13	13	13	13	13	13	3.3	11	13	13
26	12	13	13	13	13	13	13	13	3.3	13	13	13
27	12	13	13	13	13	13	13	13	3.4	13	13	13
28	12	13	13	13	13	13	13	13	11	13	13	13
29	12	13	13	13	---	13	13	13	13	13	13	13
30	12	13	13	13	---	13	13	13	13	13	4.7	13
31	12	---	13	13	---	13	---	12	---	13	3.5	---
TOTAL	374	381	403	403	364	342.4	332.7	356.5	244.5	358.0	340.9	321.3
MEAN	12.1	12.7	13.0	13.0	13.0	11.0	11.1	11.5	8.15	11.5	11.0	10.7
MAX	13	13	13	13	13	13	13	13	13	13	13	13
MIN	12	12	13	13	13	6.1	6.5	7.2	3.3	3.4	3.5	3.5
AC-FT	742	756	799	799	722	679	660	707	485	710	676	637

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	9.70	10.5	11.0	11.3	10.6	9.88	9.84	9.90	8.42	9.37	9.59	9.60
MEAN	9.70	10.5	11.0	11.3	10.6	9.88	9.84	9.90	8.42	9.37	9.59	9.60
MAX	12.1	13.0	13.9	13.2	13.0	13.0	12.8	12.0	10.8	11.9	11.3	11.7
(WY)	2003	2001	2002	2002	2003	2000	2001	2002	1994	2001	2002	1986
MIN	5.73	7.21	7.85	8.49	8.33	7.60	6.79	7.60	4.96	5.70	7.45	4.85
(WY)	1992	1987	1991	1992	1992	1992	1992	1993	1992	1992	1988	1991

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1985 - 2003

ANNUAL TOTAL	4167.6	4221.3	
ANNUAL MEAN	11.4	11.6	10.0
HIGHEST ANNUAL MEAN			11.6 2001
LOWEST ANNUAL MEAN			7.29 1992
HIGHEST DAILY MEAN	14	Jan 1	13 Oct 1 14 Jun 27 2001
LOWEST DAILY MEAN	4.4	Feb 5	3.3 Jun 10 1.0 Sep 24 1991
ANNUAL SEVEN-DAY MINIMUM	4.4	Feb 5	3.4 Jun 8 1.5 Jun 13 1991
MAXIMUM PEAK FLOW			18 Sep 17 20 Jun 29 1999
MAXIMUM PEAK STAGE			1.31 Sep 17 1.39 Jun 29 1999
ANNUAL RUNOFF (AC-FT)	8270	8370	7240
10 PERCENT EXCEEDS	13	13	13
50 PERCENT EXCEEDS	13	13	11
90 PERCENT EXCEEDS	5.0	6.4	4.2

VIRGIN RIVER BASIN

09415640 ASH SPRINGS CREEK BELOW HIGHWAY 93 AT ASH SPRINGS, NV

LOCATION.--Lat 37°27'37", long 115°11'37", in NE 1/4 NE 1/4 sec.1, T.6 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on left bank, downstream of culvert at US Highway 93 and .2 mi southeast of Ash Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,589.94 ft above NAVD88.

REMARKS.--No estimated daily discharges. Records fair. Diversion for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft³/s, July 13, 2000, gage height, 4.57 ft; minimum daily, 7.2 ft³/s, May 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft³/s, June 20, gage height, 4.25 ft; minimum daily, 9.7 ft³/s, September 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	14	15	16	14	16	14	14	15	15	14
2	15	13	15	15	16	11	16	14	15	15	15	14
3	15	12	15	15	16	11	16	15	15	15	15	14
4	15	12	15	16	16	12	16	15	12	15	15	14
5	15	12	15	15	16	11	16	14	14	14	15	14
6	15	12	15	16	16	12	16	14	15	15	15	14
7	15	12	14	16	16	13	16	14	15	15	15	14
8	15	11	14	16	16	16	16	15	15	15	15	14
9	15	11	14	16	16	16	16	14	15	15	15	14
10	15	11	15	16	15	15	16	14	15	15	15	14
11	15	11	15	16	15	16	15	14	15	12	14	14
12	15	12	15	16	16	16	15	14	15	11	10	13
13	15	12	15	16	16	16	15	14	15	15	13	9.7
14	15	12	15	15	16	16	15	14	15	15	15	14
15	15	12	15	15	16	16	16	14	15	15	15	15
16	15	12	15	15	16	16	16	13	15	15	15	15
17	15	12	15	16	16	16	15	10	15	15	15	15
18	15	12	15	16	16	16	15	12	15	15	15	15
19	15	12	15	15	16	16	15	14	15	15	15	15
20	15	12	15	16	16	14	15	14	14	15	15	15
21	15	12	15	16	15	11	15	14	15	15	15	15
22	15	12	15	16	13	11	15	14	15	15	15	15
23	15	15	15	16	13	15	15	14	15	15	15	15
24	15	16	15	16	14	16	15	14	15	15	15	15
25	15	16	15	16	15	15	15	15	15	15	15	15
26	15	15	15	16	15	16	15	15	13	15	15	15
27	15	15	15	16	15	16	15	15	10	15	14	15
28	15	15	16	16	15	15	14	15	15	15	15	15
29	15	14	16	16	---	15	15	15	15	15	15	15
30	15	15	15	16	---	15	14	15	15	15	14	15
31	15	---	15	16	---	15	---	14	---	15	14	---
TOTAL	465	386	463	488	433	449	460	436	437	457	454	430.7
MEAN	15.0	12.9	14.9	15.7	15.5	14.5	15.3	14.1	14.6	14.7	14.6	14.4
MAX	15	16	16	16	16	16	16	15	15	15	15	15
MIN	15	11	14	15	13	11	14	10	10	11	10	9.7
AC-FT	922	766	918	968	859	891	912	865	867	906	901	854

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003
MEAN	14.9	14.0	13.9	14.1	15.1
MAX	16.3	14.8	14.9	15.7	16.2
(WY)	2001	2002	2003	2003	2001
MIN	13.4	12.9	13.3	12.4	14.0
(WY)	2002	2003	2001	2002	2002

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1999 - 2003

	2002 CALENDAR YEAR	2003 WATER YEAR	WATER YEARS 1999 - 2003
ANNUAL TOTAL	5112.5	5358.7	
ANNUAL MEAN	14.0	14.7	14.7
HIGHEST ANNUAL MEAN			15.4
LOWEST ANNUAL MEAN			13.9
HIGHEST DAILY MEAN	17	16	18
LOWEST DAILY MEAN	7.2	9.7	7.2
ANNUAL SEVEN-DAY MINIMUM	11	11	11
MAXIMUM PEAK FLOW		24	27
MAXIMUM PEAK STAGE		4.25	4.57
ANNUAL RUNOFF (AC-FT)	10140	10630	10640
10 PERCENT EXCEEDS	16	16	16
50 PERCENT EXCEEDS	15	15	15
90 PERCENT EXCEEDS	11	13	12

VIRGIN RIVER BASIN

09415900 MUDDY SPRING AT L.D.S FARM NEAR MOAPA, NV

LOCATION.--Lat 36°43'18", long 114°42'53", in SE 1/4 NE 1/4 sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi downstream from L.D.S. mansion, and 6 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Regulation for recreational purposes occurs 0.1 mi upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41 ft³/s, February 23, 2002, gage height, 2.18 ft; the gage was submerged by backwater and over bank flow from Muddy River on August 15, 1990, discharge and gage height unknown; minimum daily, 5.9 ft³/s, May 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft³/s, October 12, gage height, 1.85 ft; minimum daily, 6.5 ft³/s, February 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.6	7.4	6.9	7.4	7.8	8.1	8.1	8.1	7.5	7.3	7.2
2	7.9	8.5	7.4	7.4	7.6	7.6	8.2	8.1	8.2	7.5	7.9	7.5
3	7.7	8.3	7.3	7.9	6.5	7.6	8.3	8.6	7.6	7.5	8.2	6.9
4	7.7	7.2	7.4	7.8	6.6	7.6	8.3	8.7	7.9	7.4	6.8	7.2
5	8.8	7.6	7.4	7.8	6.6	8.4	9.4	7.6	7.9	7.8	7.1	7.2
6	8.5	7.5	7.3	6.8	6.7	7.5	9.0	8.1	7.9	8.3	7.1	7.2
7	7.3	7.5	8.2	6.9	6.9	7.8	7.7	8.1	8.3	7.0	7.1	7.2
8	8.1	7.4	8.2	6.9	7.9	7.8	8.2	8.1	8.3	7.6	7.1	7.3
9	7.8	8.4	7.1	6.9	8.0	7.8	8.2	8.1	8.6	7.0	7.8	7.2
10	7.5	8.3	7.2	7.6	6.9	7.8	8.2	8.7	8.5	7.2	8.0	7.2
11	7.7	7.1	7.3	7.5	6.9	7.8	8.2	8.4	8.6	7.2	6.8	7.2
12	8.7	7.3	7.2	7.7	7.1	7.9	8.9	7.3	8.6	7.9	7.1	7.2
13	8.5	7.4	7.2	6.7	7.1	7.9	8.8	7.7	8.6	8.1	7.2	7.5
14	7.3	7.4	8.3	6.9	7.1	8.0	7.7	8.0	8.6	6.8	7.2	8.1
15	7.6	7.3	8.1	6.9	7.6	9.1	8.1	8.1	8.6	7.2	7.2	6.8
16	7.7	7.3	7.8	6.9	7.2	9.0	8.1	8.1	8.6	7.6	8.2	7.2
17	7.7	7.3	7.9	6.9	6.9	7.9	8.1	9.0	8.6	6.9	8.0	7.2
18	7.6	7.3	7.9	7.9	7.2	8.1	8.1	8.9	8.4	7.1	6.9	7.2
19	8.4	7.4	8.0	7.7	7.5	8.1	9.0	7.6	8.0	7.8	7.2	7.2
20	8.6	7.4	7.8	6.6	7.1	8.2	8.8	8.1	7.7	8.0	7.2	8.0
21	7.3	7.4	7.8	6.7	7.4	8.3	7.7	8.1	7.7	6.8	7.2	8.1
22	7.6	7.4	7.8	6.7	7.8	9.1	8.1	8.1	7.9	7.4	7.2	6.9
23	7.7	8.5	6.8	6.9	7.4	9.0	8.1	8.1	7.4	6.8	8.1	7.2
24	7.7	8.3	7.0	6.7	7.1	7.9	8.1	8.4	8.0	7.1	8.1	7.2
25	7.7	7.4	7.0	7.1	7.4	8.1	8.1	8.9	7.4	7.1	6.9	7.2
26	8.7	7.1	6.9	6.7	7.5	8.2	8.9	7.5	7.7	8.0	7.2	7.2
27	8.6	7.4	6.9	6.7	7.6	8.2	8.8	8.0	7.7	8.1	7.2	8.0
28	7.3	7.4	7.0	6.7	7.6	8.3	7.7	8.0	8.3	6.9	7.4	8.0
29	7.6	7.4	7.0	6.7	---	9.0	8.1	8.0	8.5	7.5	6.8	6.8
30	7.6	7.4	6.9	6.7	---	8.9	8.1	7.9	7.1	7.0	7.1	7.1
31	7.6	---	6.9	6.6	---	7.8	---	8.0	---	7.3	7.2	---
TOTAL	244.5	227.2	230.4	218.8	202.6	252.5	249.1	252.4	243.3	229.4	227.8	219.4
MEAN	7.89	7.57	7.43	7.06	7.24	8.15	8.30	8.14	8.11	7.40	7.35	7.31
MAX	8.8	8.5	8.3	7.9	8.0	9.1	9.4	9.0	8.6	8.3	8.2	8.1
MIN	7.3	7.1	6.8	6.6	6.5	7.5	7.7	7.3	7.1	6.8	6.8	6.8
AC-FT	485	451	457	434	402	501	494	501	483	455	452	435

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

MEAN	7.39	7.38	7.38	7.42	7.47	7.45	7.44	7.34	7.31	7.18	7.20	7.28
MAX	8.24	8.38	8.42	8.48	9.22	8.55	8.33	8.31	8.25	8.21	8.42	8.27
(WY)	2002	2002	2002	2002	1993	2002	2002	2002	2002	2002	2002	2002
MIN	6.77	6.92	6.70	6.91	6.85	6.71	6.96	6.69	6.64	6.43	6.58	6.57
(WY)	2001	2001	1991	2001	1991	1997	1997	1993	1993	1993	1993	1993

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1985 - 2003

ANNUAL TOTAL	2986.1	2797.4	
ANNUAL MEAN	8.18	7.66	7.36
HIGHEST ANNUAL MEAN			8.36
LOWEST ANNUAL MEAN			6.96
HIGHEST DAILY MEAN	9.4	Feb 23	10
LOWEST DAILY MEAN	6.8	Dec 23	5.9
ANNUAL SEVEN-DAY MINIMUM	6.9	Dec 23	6.2
MAXIMUM PEAK FLOW		33	41
MAXIMUM PEAK STAGE		1.85	2.18
ANNUAL RUNOFF (AC-FT)	5920	5550	5330
10 PERCENT EXCEEDS	8.7	8.5	8.1
50 PERCENT EXCEEDS	8.3	7.6	7.3
90 PERCENT EXCEEDS	7.4	6.9	6.8

VIRGIN RIVER BASIN

09415908 PEDERSON EAST SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE 1/4 NE 1/4 sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and 45° V-notch weir. Elevation of gage is 1,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. See schematic diagram of Colorado River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.24 ft³/s, many days in 2002 and 2003; minimum daily discharge 0.16 ft³/s on August 25-27, September 10, 11, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 0.24 ft³/s, many days; minimum daily, 0.16 ft³/s, August 25-27, September 10, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.23	0.23	0.24	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.17
2	0.23	0.23	0.24	0.23	0.24	0.24	0.21	0.21	0.18	0.17	0.17	0.17
3	0.23	0.23	0.24	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.17
4	0.23	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.18	0.17	0.17	0.17
5	0.23	0.23	0.24	0.23	0.23	0.24	0.21	0.21	0.17	0.17	0.17	0.17
6	0.23	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.17	0.17	0.17	0.17
7	0.23	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.17	0.17	0.17	0.17
8	0.23	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.17	0.17	0.17	0.17
9	0.23	0.24	0.24	0.23	0.23	0.24	0.20	0.21	0.18	0.17	0.17	0.17
10	0.23	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.17	0.17	0.17	0.16
11	0.23	0.23	0.24	0.23	0.23	0.22	0.20	0.21	0.17	0.17	0.17	0.16
12	0.23	0.23	0.24	0.23	e0.23	0.20	0.20	0.21	0.17	0.17	0.17	0.18
13	0.23	0.23	0.24	0.23	e0.24	0.20	0.20	0.20	0.17	0.17	0.17	0.19
14	0.23	0.23	0.24	0.23	e0.24	0.21	0.21	0.20	0.17	0.17	0.17	0.18
15	0.23	0.23	0.23	0.23	e0.23	0.21	0.21	0.19	0.17	0.17	0.17	0.19
16	0.23	0.23	0.23	0.23	e0.23	0.21	0.21	0.18	0.17	0.17	0.17	0.20
17	0.23	0.23	0.24	0.23	e0.24	0.21	0.21	0.18	0.17	0.17	0.17	0.19
18	0.23	0.23	0.23	0.23	e0.24	0.21	0.20	0.18	0.17	0.17	0.17	0.18
19	0.23	0.23	0.23	0.23	e0.24	0.21	0.20	0.18	0.17	0.17	0.17	0.18
20	0.23	0.23	0.23	0.23	e0.24	0.21	0.20	0.18	0.17	0.17	0.17	0.18
21	0.23	0.23	0.23	0.23	e0.24	0.21	0.20	0.18	0.17	0.17	0.17	0.18
22	0.23	0.23	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.17	0.17
23	0.23	0.23	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.17	0.18
24	0.23	0.23	0.23	0.23	0.24	0.21	0.21	0.19	0.17	0.17	0.17	0.17
25	0.23	0.24	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.16	0.17
26	0.23	0.24	0.23	0.23	0.24	0.21	0.21	0.18	0.17	0.17	0.16	0.17
27	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.18	0.17	0.17	0.16	0.17
28	0.23	0.24	0.23	0.23	0.24	0.20	0.21	0.17	0.17	0.17	0.17	0.17
29	0.23	0.24	0.23	0.23	---	0.20	0.21	0.17	0.17	0.17	0.17	0.17
30	0.23	0.24	0.23	0.23	---	0.20	0.21	0.18	0.17	0.17	0.17	0.17
31	0.23	---	0.23	0.23	---	0.20	---	0.18	---	0.17	0.17	---
TOTAL	7.13	6.97	7.28	7.13	6.59	6.75	6.17	5.98	5.15	5.27	5.24	5.24
MEAN	0.23	0.23	0.23	0.23	0.24	0.22	0.21	0.19	0.17	0.17	0.17	0.17
MAX	0.23	0.24	0.24	0.23	0.24	0.24	0.21	0.21	0.18	0.17	0.17	0.20
MIN	0.23	0.23	0.23	0.23	0.23	0.20	0.20	0.17	0.17	0.17	0.16	0.16
AC-FT	14	14	14	14	13	13	12	12	10	10	10	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

	2002	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
MEAN	0.23	0.23	0.23	0.23	0.24	0.22	0.21	0.19	0.19	0.19	0.19	0.19
MAX	0.23	0.23	0.23	0.23	0.24	0.22	0.21	0.19	0.22	0.22	0.21	0.20
(WY)	2003	2003	2003	2003	2003	2003	2003	2003	2002	2002	2002	2002
MIN	0.23	0.23	0.23	0.23	0.24	0.22	0.21	0.19	0.17	0.17	0.17	0.17
(WY)	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003

SUMMARY STATISTICS

FOR 2003 WATER YEAR

WATER YEARS 2002 - 2003

ANNUAL TOTAL	74.90		
ANNUAL MEAN	0.21		0.21
HIGHEST ANNUAL MEAN			0.21 2003
LOWEST ANNUAL MEAN			0.21 2003
HIGHEST DAILY MEAN	0.24	Nov 9	0.24 Nov 9 2002
LOWEST DAILY MEAN	0.16	Aug 25	0.16 Aug 25 2003
ANNUAL SEVEN-DAY MINIMUM	0.17	Aug 21	0.17 Aug 21 2003
ANNUAL RUNOFF (AC-FT)	149		149
10 PERCENT EXCEEDS	0.24		0.24
50 PERCENT EXCEEDS	0.21		0.21
90 PERCENT EXCEEDS	0.17		0.17

e Estimated

VIRGIN RIVER BASIN

09415910 PEDERSON SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE 1/4 NE 1/4 sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder and 45° V-notch weir. Elevation of gage is 1,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for periods subsequent to February 6, which are poor due to leakage under weir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.34 ft³/s, August 30, 1992, gage height, 0.64 ft; minimum daily, 0.11 ft³/s, September 27-30, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.19 ft³/s, November 13, gage height 0.47 ft; minimum daily, 0.11 ft³/s, September 27-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.18	0.17	e0.17	0.18	0.17	0.17	0.17	0.16	0.18	e0.16	0.15	e0.13
2	0.18	0.17	e0.17	0.18	0.17	0.17	0.18	0.16	0.18	e0.15	0.15	e0.13
3	0.17	0.17	e0.17	0.18	0.17	0.17	0.17	0.16	0.18	e0.15	0.15	e0.13
4	0.17	0.17	e0.18	0.18	0.17	0.17	0.16	0.16	0.18	e0.15	0.15	e0.13
5	0.17	0.17	e0.18	0.18	0.17	0.17	0.16	0.16	0.18	e0.15	0.15	e0.13
6	0.17	0.17	e0.18	0.18	0.17	0.17	0.16	0.16	0.18	e0.15	0.15	0.13
7	0.17	0.17	e0.18	0.18	0.17	0.17	0.16	0.16	0.18	e0.15	0.15	0.13
8	0.17	0.17	e0.18	0.17	0.17	0.17	0.16	0.16	e0.18	0.16	0.15	0.13
9	0.17	0.17	e0.18	0.17	0.17	0.17	0.16	0.16	e0.18	0.15	0.15	0.12
10	0.17	0.17	e0.18	0.17	0.17	0.17	0.16	0.16	0.18	0.16	0.15	0.12
11	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.18	e0.16	0.15	0.12
12	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.18	0.15	0.15	0.12
13	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.17	0.15	0.15	0.12
14	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.15	0.15	0.12
15	0.17	0.17	0.18	0.17	0.17	0.17	0.16	0.17	0.18	0.15	0.14	0.13
16	0.17	0.17	0.18	0.17	0.17	0.17	0.16	0.16	0.18	0.15	0.14	0.13
17	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.15	0.14	0.13
18	0.17	0.17	0.18	0.17	0.17	0.16	0.17	0.17	0.17	0.15	0.14	0.12
19	0.17	0.17	0.18	0.17	0.17	0.16	0.16	0.17	0.17	0.15	0.14	0.12
20	0.17	0.17	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.15	0.14	0.12
21	0.17	0.17	0.18	0.17	0.17	0.16	0.17	0.16	0.17	e0.15	0.14	0.12
22	0.17	0.17	0.18	0.17	0.17	0.16	0.17	0.16	0.16	e0.15	0.14	0.12
23	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.17	0.15	0.14	0.12
24	0.17	0.17	0.18	0.17	0.17	0.17	0.17	e0.16	0.17	0.15	0.14	0.12
25	0.17	0.17	0.18	0.17	0.17	0.16	0.17	e0.16	0.17	0.15	0.14	0.12
26	0.17	0.17	0.18	0.17	0.17	0.17	0.17	e0.16	e0.17	0.15	0.14	0.12
27	0.17	e0.17	0.18	0.17	0.17	0.17	0.17	e0.16	e0.17	0.15	0.14	0.11
28	0.17	e0.17	0.18	0.17	0.17	0.16	0.17	0.16	e0.16	0.15	0.13	0.11
29	0.17	e0.17	0.18	0.17	---	0.16	0.17	0.17	e0.16	0.16	0.13	0.11
30	0.17	e0.17	0.18	0.17	---	0.16	e0.17	0.17	e0.16	0.15	e0.13	0.11
31	0.17	---	0.18	0.17	---	0.17	---	0.17	---	0.15	e0.13	---
TOTAL	5.29	5.10	5.55	5.34	4.76	5.18	5.00	5.04	5.20	4.70	4.44	3.67
MEAN	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.16	0.17	0.15	0.14	0.12
MAX	0.18	0.17	0.18	0.18	0.17	0.17	0.18	0.17	0.18	0.16	0.15	0.13
MIN	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	0.13	0.11
AC-FT	10	10	11	11	9.4	10	9.9	10	10	9.3	8.8	7.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21
MAX (WY)	0.26	0.26	0.25	0.25	0.24	0.26	0.26	0.27	0.26	0.26	0.27	0.26	0.27	0.26	0.26	0.26	0.26
MIN (WY)	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.17	0.15	0.14	0.12	0.12	0.12	0.12	0.12

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1987 - 2003

ANNUAL TOTAL	70.00	59.27	
ANNUAL MEAN	0.19	0.16	0.21
HIGHEST ANNUAL MEAN			0.26 1998
LOWEST ANNUAL MEAN			0.16 2003
HIGHEST DAILY MEAN	0.23 May 2	0.18 Oct 1	0.28 Jun 19 1993
LOWEST DAILY MEAN	0.17 Aug 16	0.11 Sep 27	0.11 Sep 27 2003
ANNUAL SEVEN-DAY MINIMUM	0.17 Aug 16	0.11 Sep 24	0.11 Sep 24 2003
MAXIMUM PEAK FLOW		0.19 Nov 13	0.32 Sep 11 1998
MAXIMUM PEAK STAGE		0.47 Nov 13	0.64 Aug 30 1992
ANNUAL RUNOFF (AC-FT)	139	118	155
10 PERCENT EXCEEDS	0.21	0.18	0.25
50 PERCENT EXCEEDS	0.19	0.17	0.21
90 PERCENT EXCEEDS	0.17	0.14	0.18

e Estimated

VIRGIN RIVER BASIN

09415920 WARM SPRINGS WEST NEAR MOAPA, NV

LOCATION.--Lat 36°42'41", long 114°42'48", in SE 1/4 SE 1/4 sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, at U.S. Fish and Wildlife Station, 0.6 mi upstream from confluence with Muddy River, 1.9 mi west of State Highway 168, and 6.5 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,770 ft above NGVD of 1929, from topographic map. At datum 0.38 ft higher prior to July 12, 1993.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation and fish hatchery above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s, May 15, 1990, gage height, 2.16 ft; minimum daily, 2.8 ft³/s, September 28, 29, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.8 ft³/s, February 12, gage height, 0.96 ft; minimum daily, 3.5 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.5	3.6	e3.6	e3.7	3.6	3.6	3.7	3.6	3.5	3.5	3.5
2	3.5	3.5	3.6	e3.6	e3.7	3.6	3.6	3.7	3.6	3.5	3.5	3.5
3	3.5	3.6	3.6	e3.6	e3.7	3.6	3.6	3.7	3.6	3.5	3.5	3.5
4	3.5	3.5	3.6	e3.6	e3.7	3.7	3.7	3.6	3.6	3.5	3.5	3.5
5	3.5	3.5	3.6	e3.6	e3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.5
6	3.5	3.5	3.6	e3.6	e3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.5
7	3.5	3.6	3.6	e3.6	e3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.5
8	3.6	3.6	3.6	e3.6	e3.7	3.6	3.7	3.6	3.6	3.5	3.5	3.5
9	3.6	3.6	e3.6	e3.6	e3.7	3.6	3.7	3.6	3.5	3.5	3.5	3.5
10	3.6	3.6	e3.6	e3.6	e3.7	3.7	3.7	3.6	3.5	3.5	3.5	3.5
11	3.6	3.6	e3.6	e3.6	e3.7	3.7	3.6	3.6	3.5	3.5	3.5	3.5
12	3.6	3.6	e3.6	e3.6	3.7	3.7	3.6	3.6	3.5	3.5	3.5	3.5
13	3.6	3.6	e3.6	e3.6	3.7	3.7	3.6	3.6	3.5	3.5	3.5	3.5
14	3.6	3.6	e3.6	e3.6	3.6	3.7	3.7	3.6	3.5	3.5	3.5	3.5
15	3.6	3.6	e3.6	e3.6	3.6	3.7	3.7	3.6	3.5	3.5	3.5	3.5
16	3.6	3.6	e3.6	e3.6	3.6	3.7	3.7	3.6	3.5	3.5	3.5	3.5
17	3.6	3.6	e3.6	e3.6	3.6	3.7	3.7	3.6	3.5	3.5	3.5	3.5
18	3.6	3.6	e3.6	e3.6	3.6	3.7	3.7	3.6	3.5	3.5	3.5	3.5
19	3.6	3.6	e3.6	e3.6	3.7	3.6	3.7	3.6	3.5	3.5	3.5	3.5
20	3.6	3.6	e3.6	e3.6	3.7	3.6	3.7	3.7	3.5	3.5	3.5	3.5
21	3.6	3.6	e3.6	e3.6	3.6	3.6	3.7	3.7	3.5	3.5	3.5	3.5
22	3.6	3.6	e3.6	e3.6	3.7	3.6	3.7	3.7	3.5	3.5	3.5	3.5
23	3.6	3.6	e3.6	e3.6	3.7	3.7	3.7	3.6	3.5	3.5	3.5	3.5
24	3.6	3.6	e3.6	e3.6	3.7	3.7	3.7	3.6	3.5	3.5	3.5	3.5
25	3.6	3.6	e3.6	e3.6	3.7	3.6	3.7	3.6	3.5	3.5	3.5	3.5
26	3.6	3.6	e3.6	e3.7	3.7	3.7	3.7	3.6	3.5	3.5	3.5	3.5
27	3.6	3.6	e3.6	e3.7	3.7	3.6	3.7	3.6	3.5	3.5	3.5	3.5
28	3.6	3.6	e3.6	e3.7	3.6	3.6	3.7	3.6	3.5	3.5	3.5	3.5
29	3.6	3.6	e3.6	e3.7	---	3.6	3.7	3.6	3.5	3.5	3.5	3.5
30	3.6	3.6	e3.6	e3.7	---	3.6	3.7	3.6	3.5	3.5	3.5	3.5
31	3.6	---	e3.6	e3.7	---	3.6	---	3.6	---	3.5	3.5	---
TOTAL	111.0	107.5	111.6	112.2	102.9	113.0	110.1	112.2	105.6	108.5	108.5	105.0
MEAN	3.58	3.58	3.60	3.62	3.67	3.65	3.67	3.62	3.52	3.50	3.50	3.50
MAX	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.6	3.5	3.5	3.5
MIN	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5
AC-FT	220	213	221	223	204	224	218	223	209	215	215	208

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	3.64	3.70	3.70	3.70	3.71	3.70	3.70	3.70	3.69	3.64	3.63	3.61							
MAX	3.97	4.10	4.04	4.10	4.05	4.11	4.11	4.08	4.00	3.89	3.89	3.93							
(WY)	1994	1994	1994	1994	1994	1998	1998	1998	1998	1998	1990	1998							
MIN	3.20	3.37	3.34	3.30	3.31	3.23	3.14	3.12	3.20	3.19	3.17	3.29							
(WY)	1993	1993	1986	1988	1986	1992	1992	1992	1992	1992	1992	1993							

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1985 - 2003

ANNUAL TOTAL	1326.7	1308.1		
ANNUAL MEAN	3.63	3.58	3.67	
HIGHEST ANNUAL MEAN			3.96	1998
LOWEST ANNUAL MEAN			3.38	1992
HIGHEST DAILY MEAN	3.8	Jan 28	4.4	Sep 11 1998
LOWEST DAILY MEAN	3.5	Aug 21	2.8	Sep 28 1993
ANNUAL SEVEN-DAY MINIMUM	3.5	Aug 21	3.0	May 12 1992
MAXIMUM PEAK FLOW			13	May 15 1990
MAXIMUM PEAK STAGE			2.16	May 15 1990
ANNUAL RUNOFF (AC-FT)	2630	2590	2660	
10 PERCENT EXCEEDS	3.8	3.7	4.0	
50 PERCENT EXCEEDS	3.6	3.6	3.7	
90 PERCENT EXCEEDS	3.6	3.5	3.4	

e Estimated

VIRGIN RIVER BASIN

09415927 WARM SPRINGS CONFLUENCE AT IVERSON FLUME NEAR MOAPA, NV

LOCATION.--Lat 36°42'41.1", long 114°42'31.7", in SW 1/4 SW 1/4 sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on right bank, at U.S. Fish and Wildlife Station, 1.9 mi west of State Highway 168, and 6.5 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,780 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11.0 ft³/s, March 16, 2003 gage height, 7.78 ft; minimum daily, 7.3 ft³/s, several days, November and December 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11.0 ft³/s, March 16, gage height, 7.78 ft; minimum daily, 8.0 ft³/s, October 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	9.2	9.2	8.7	8.6	8.4	10	9.2	8.4	8.5	8.7	8.5
2	8.3	9.2	9.3	8.8	8.6	8.4	10	9.3	8.4	8.5	8.8	8.6
3	8.3	9.2	9.2	8.7	8.7	8.4	10	9.3	8.4	8.6	8.7	8.6
4	8.4	9.2	9.1	8.7	8.9	8.5	10	9.4	8.4	8.6	8.7	8.7
5	8.4	9.2	8.9	8.7	8.9	8.6	10	9.4	8.4	8.6	8.7	8.6
6	8.4	9.2	8.9	8.8	9.0	8.7	10	9.4	8.4	8.6	8.7	8.6
7	8.2	9.2	8.9	8.8	9.0	8.7	10	9.4	8.4	8.6	8.7	8.6
8	8.2	9.2	8.8	9.0	9.0	8.5	10	9.5	8.7	8.5	8.8	8.5
9	8.3	9.2	8.7	9.1	8.8	8.5	10	9.3	8.9	8.5	8.8	8.7
10	8.6	9.1	8.7	9.2	8.8	8.5	10	9.3	8.9	8.5	8.9	8.6
11	9.1	9.0	8.6	9.2	8.8	9.0	10	9.2	9.0	8.6	8.9	8.5
12	9.2	9.0	8.6	9.4	8.9	9.7	10	9.2	8.9	8.6	8.9	8.5
13	9.2	9.0	8.5	9.1	8.9	9.8	10	9.2	8.7	8.6	8.9	9.1
14	9.3	9.0	8.5	9.0	8.7	10	10	9.2	8.6	8.7	8.9	9.5
15	9.2	8.9	8.5	9.0	8.6	10	10	8.9	8.6	8.7	9.0	9.6
16	9.3	9.0	8.6	8.9	8.6	11	9.7	8.5	8.6	8.7	9.2	9.7
17	9.2	9.0	8.5	8.8	8.7	11	9.1	8.5	8.6	8.8	9.1	9.0
18	9.2	8.9	8.5	8.8	8.8	11	9.3	8.5	8.5	8.8	9.1	8.3
19	9.1	8.9	8.5	8.7	8.7	11	9.3	8.4	8.5	8.8	9.1	8.3
20	9.1	8.9	8.6	8.7	8.6	11	9.3	8.5	8.4	8.8	9.1	8.3
21	9.1	9.0	8.7	8.6	8.5	10	9.4	8.5	8.4	8.8	9.1	8.3
22	9.1	8.9	8.7	8.6	8.5	10	9.4	8.5	8.5	8.8	9.1	8.3
23	9.2	8.9	8.7	8.6	8.5	10	9.3	8.5	8.4	8.8	9.1	8.3
24	9.2	8.9	8.7	8.6	8.5	10	9.3	8.5	8.3	8.8	9.0	8.3
25	9.3	8.9	8.7	8.6	8.6	10	9.2	8.4	8.3	8.8	8.7	8.4
26	9.3	9.0	8.6	8.6	8.6	10	9.2	8.4	8.3	8.8	8.4	8.4
27	9.4	9.1	8.6	8.6	8.6	10	9.2	8.3	8.3	8.7	8.5	8.3
28	9.4	9.1	8.7	8.6	8.6	10	9.2	8.3	8.5	8.7	8.5	8.4
29	9.3	9.2	8.7	8.6	---	10	9.2	8.3	8.5	8.7	8.5	8.4
30	9.2	9.2	8.6	8.6	---	10	9.2	8.3	8.5	8.6	8.5	8.3
31	9.2	---	8.7	8.5	---	10	---	8.4	---	8.6	8.5	---
TOTAL	276.7	271.7	270.5	272.6	244.0	298.7	289.3	274.0	255.7	268.7	273.6	258.2
MEAN	8.93	9.06	8.73	8.79	8.71	9.64	9.64	8.84	8.52	8.67	8.83	8.61
MAX	9.4	9.2	9.3	9.4	9.0	11	10	9.5	9.0	8.8	9.2	9.7
MIN	8.0	8.9	8.5	8.5	8.5	8.4	9.1	8.3	8.3	8.5	8.4	8.3
AC-FT	549	539	537	541	484	592	574	543	507	533	543	512

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

MEAN	8.30	8.25	8.08	8.28	8.54	9.47	9.44	8.99	8.85	8.80	8.71	8.43
MAX	8.93	9.06	8.73	8.79	8.71	9.64	9.64	9.14	9.18	8.94	8.83	8.61
(WY)	2003	2003	2003	2003	2003	2003	2003	2002	2002	2002	2003	2003
MIN	7.67	7.45	7.43	7.77	8.38	9.30	9.24	8.84	8.52	8.67	8.60	8.24
(WY)	2002	2002	2002	2002	2002	2002	2002	2003	2003	2003	2002	2002

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2002 - 2003

ANNUAL TOTAL	3209.4	3253.7	
ANNUAL MEAN	8.79	8.91	8.68
HIGHEST ANNUAL MEAN			8.91
LOWEST ANNUAL MEAN			8.44
HIGHEST DAILY MEAN	9.6	Apr 15	11
LOWEST DAILY MEAN	7.7	Jan 1	8.0
ANNUAL SEVEN-DAY MINIMUM	7.7	Jan 1	8.3
MAXIMUM PEAK FLOW			11
MAXIMUM PEAK STAGE		7.78	Mar 16
ANNUAL RUNOFF (AC-FT)	6370	6450	6290
10 PERCENT EXCEEDS	9.3	9.7	9.3
50 PERCENT EXCEEDS	9.0	8.8	8.7
90 PERCENT EXCEEDS	7.9	8.4	7.6

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE 1/4 SE 1/4 sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, 9.5 mi upstream from Meadow Valley Wash, and 26 mi upstream from Lake Mead.

DRAINAGE AREA.--3,820 mi², approximately, of which about 40 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--July 1913 to September 1915, April 1916 to September 1918, June 1928 to October 1931, April to July 1932, October 1944 to current year.

REVISED RECORDS.--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder and Cipolletti weir. Recording tipping bucket rain gage with 0.04 inch increment since December 1989. Elevation of gage is 1,710 ft above NGVD of 1929, from river-profile map. October 21, 1944, to September 30, 1948, water-stage recorder at datum 0.08 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation above station. Beginning October 1, 1976, records do not include part-time diversion about 100 ft upstream, for cooling of powerplants downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi upstream from station. Flood peaks may be dampened by Arrow Canyon Dam. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft³/s, August 16, 1990, gage height, 13.33 ft, on basis of slope-area measurement of peak flow; minimum daily, 19 ft³/s, October 10, 1997. Maximum daily precipitation, 2.12 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s, and maximum (*):

DAY	Discharge Gage height						Discharge Gage height					
	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
	Aug 16	2245	*53	*0.96								
	Maximum daily precipitation, 0.56 in. February 12.											
	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	34	31	33	36	37	27	37	32	29	29	28
2	37	32	31	35	39	39	25	39	32	30	30	28
3	29	34	32	38	38	37	25	39	34	30	30	27
4	27	36	34	39	38	37	30	39	35	30	29	27
5	32	36	35	41	38	36	35	36	36	29	29	27
6	30	35	34	38	37	35	36	36	34	29	29	27
7	28	33	33	37	37	36	35	39	32	30	28	27
8	29	30	34	32	36	35	36	41	32	31	28	27
9	28	31	35	32	36	34	33	37	32	31	29	26
10	29	31	35	31	34	35	31	34	30	31	30	26
11	29	29	36	33	34	35	29	37	30	30	28	26
12	30	31	34	34	35	34	27	35	29	30	28	26
13	30	32	31	36	40	33	31	35	29	32	29	26
14	30	33	33	32	34	32	30	35	28	31	28	26
15	31	31	35	31	33	33	31	35	29	32	28	25
16	30	29	36	31	33	36	29	33	29	32	40	25
17	31	28	39	32	33	39	29	33	30	30	36	26
18	32	28	36	33	33	36	27	34	30	30	30	27
19	27	29	34	32	33	34	33	33	30	31	29	25
20	26	32	35	33	35	40	35	32	30	31	29	24
21	26	32	35	35	33	39	33	31	30	29	29	24
22	23	33	36	35	32	37	35	29	30	30	29	23
23	25	34	35	35	34	34	36	29	31	30	29	22
24	29	35	36	35	39	33	30	28	30	30	30	22
25	28	34	36	34	40	32	30	29	29	30	29	22
26	29	33	36	34	40	31	30	28	31	30	29	22
27	29	30	35	33	38	30	31	28	31	30	28	25
28	30	31	31	33	39	31	30	28	30	29	27	25
29	30	32	32	33	---	29	31	28	31	29	27	24
30	30	32	31	33	---	31	31	28	29	29	29	24
31	35	---	31	33	---	28	---	32	---	29	30	---
TOTAL	916	960	1057	1056	1007	1068	931	1037	925	934	912	759
MEAN	29.5	32.0	34.1	34.1	36.0	34.5	31.0	33.5	30.8	30.1	29.4	25.3
MAX	37	36	39	41	40	40	36	41	36	32	40	28
MIN	23	28	31	31	32	28	25	28	28	29	27	22
AC-FT	1820	1900	2100	2090	2000	2120	1850	2060	1830	1850	1810	1510
†	1.64	0.68	0.24	0.16	1.64	0.48	0.60	0.00	0.00	0.00	0.44	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

MEAN	40.0	42.1	43.4	44.2	44.4	43.5	41.5	41.2	38.9	38.5	39.4	40.4
MAX	61.9	61.6	54.9	55.4	58.6	53.5	52.4	48.5	46.1	56.5	61.1	91.2
(WY)	1973	1961	1960	1960	1914	1958	1965	1958	1957	1984	1990	1967
MIN	25.5	26.9	28.0	30.5	30.3	28.9	31.0	33.1	30.8	30.1	27.3	25.3
(WY)	1997	2002	2002	1997	1997	1999	2003	2002	2003	2003	1995	2003

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1913 - 2003	
ANNUAL TOTAL	11876		11562			
ANNUAL MEAN	32.5		31.7		41.4	
HIGHEST ANNUAL MEAN					49.6	
LOWEST ANNUAL MEAN					31.4	
HIGHEST DAILY MEAN	40		41		930	
LOWEST DAILY MEAN	23		22		19	
ANNUAL SEVEN-DAY MINIMUM	26		23		23	
MAXIMUM PEAK FLOW			53		5760	
MAXIMUM PEAK STAGE			0.96		13.33	
ANNUAL RUNOFF (AC-FT)	23560		22930		29980	
10 PERCENT EXCEEDS	36		37		49	
50 PERCENT EXCEEDS	32		31		41	
90 PERCENT EXCEEDS	29		27		32	

† Precipitation total, in inches

VIRGIN RIVER BASIN

09417500 MEADOW VALLEY WASH AT EAGLE CANYON NEAR URSINE, NV

LOCATION.--Lat 38°00'15", long 114°32'22", in NE 1/4 SW 1/4 sec. 25, T.2 N., R.39 E., Lincoln County, Hydrologic Unit 15010013, on left bank, at state highway 322 bridge, 1.2 miles north of Ursine, NV, and 3.0 miles south of Eagle Valley Reservoir State Park.

DRAINAGE AREA.--293 mi².

PERIOD OF RECORD.--November 1973 to April 1975 (periodic discharge measurements only), December 2002 to September 2003.

GAGE.--Water-stage recorder. Elevation of gage is 5,660 ft above sea level, from topographic map. November 1973 to April 1975, non-recording gage, December 2002 to current year.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by releases from Eagle Valley Reservoir about 5 miles upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 23 ft³/s January 11, 12, 2003, gage height 3.12 ft; minimum daily 2.6 ft³/s August 5, 6, 2003.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge 23 ft³/s January 11, 12, gage height 3.12 ft; minimum daily 2.6 ft³/s August 5, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	12	13	14	6.9	7.6	3.3	3.4	3.2	4.4
2	---	---	---	12	13	13	6.9	7.5	3.2	3.3	3.2	4.4
3	---	---	---	12	12	13	6.9	7.7	3.0	3.4	3.2	4.4
4	---	---	---	13	12	12	7.0	8.7	2.9	3.4	3.1	4.4
5	---	---	---	13	12	12	7.1	9.7	2.8	3.4	2.6	4.4
6	---	---	---	13	11	12	7.5	10	2.9	3.5	2.6	4.4
7	---	---	---	14	10	11	7.8	9.9	3.1	3.5	3.6	4.4
8	---	---	---	15	9.6	10	7.9	9.9	3.3	3.0	3.6	4.3
9	---	---	---	16	9.2	9.5	7.9	11	3.6	3.1	3.7	4.3
10	---	---	---	18	9.2	8.8	7.9	13	3.7	3.1	3.6	4.1
11	---	---	---	21	9.6	8.2	7.8	13	3.7	3.1	3.6	4.0
12	---	---	---	22	10	7.9	7.8	12	3.7	3.2	3.7	3.9
13	---	---	---	21	14	7.7	7.6	10	3.7	3.2	3.7	3.9
14	---	---	---	19	18	7.5	7.3	9.0	3.8	3.2	3.8	e3.9
15	---	---	---	18	18	7.3	7.6	8.3	3.8	3.1	3.9	3.8
16	---	---	---	17	15	7.8	9.2	7.8	3.7	3.2	4.0	3.8
17	---	---	---	16	13	9.7	10	7.5	3.7	3.1	4.1	3.7
18	---	---	7.5	16	12	11	11	7.2	3.8	3.1	4.1	3.6
19	---	---	8.8	16	12	10	11	7.0	4.0	3.1	4.2	3.7
20	---	---	9.9	16	11	9.4	11	6.4	4.1	3.1	4.0	3.7
21	---	---	11	15	10	8.7	10	5.9	4.1	3.5	4.2	3.8
22	---	---	11	15	9.7	8.4	10	5.5	4.1	3.5	4.4	3.9
23	---	---	11	15	9.2	8.2	11	5.2	4.0	3.4	e4.4	3.8
24	---	---	12	15	8.9	8.0	12	5.0	3.9	3.8	e4.4	3.8
25	---	---	12	14	9.7	7.9	12	4.8	3.8	3.6	e4.4	3.8
26	---	---	11	15	12	7.7	11	4.6	3.6	3.6	e4.4	3.8
27	---	---	11	14	13	7.6	10	4.5	3.4	3.6	e4.5	3.8
28	---	---	11	14	14	7.1	9.4	4.3	3.4	3.6	4.5	3.8
29	---	---	11	14	---	6.7	8.4	4.1	3.4	3.6	4.5	3.8
30	---	---	11	13	---	6.7	7.9	3.9	3.4	3.3	4.4	3.9
31	---	---	11	13	---	6.8	---	3.5	---	3.2	4.3	---
TOTAL	---	---	---	477	330.1	285.6	265.8	234.5	106.9	103.2	119.9	119.7
MEAN	---	---	---	15.4	11.8	9.21	8.86	7.56	3.56	3.33	3.87	3.99
MAX	---	---	---	22	18	14	12	13	4.1	3.8	4.5	4.4
MIN	---	---	---	12	8.9	6.7	6.9	3.5	2.8	3.0	2.6	3.6
AC-FT	---	---	---	946	655	566	527	465	212	205	238	237

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	3.36	5.14	7.54	8.77	10.2	11.5	12.5	7.57	3.81	3.75	4.91	3.59		
MAX	4.62	8.49	18.0	29.0	20.0	27.0	52.9	36.9	6.24	5.81	13.5	6.39		
(WY)	1969	1964	1967	1969	1969	1969	1969	1973	1973	1970	1970	1963		
MIN	0.82	1.25	2.24	4.59	6.33	6.30	4.43	3.00	2.65	2.71	2.67	2.51		
(WY)	1974	1974	1974	1963	1965	1972	1966	1963	1964	1972	1972	1972		

SUMMARY STATISTICS

WATER YEARS 1962 - 2003

ANNUAL MEAN	6.86
HIGHEST ANNUAL MEAN	13.8
LOWEST ANNUAL MEAN	4.49
HIGHEST DAILY MEAN	220
LOWEST DAILY MEAN	0.40
ANNUAL SEVEN-DAY MINIMUM	0.57
ANNUAL RUNOFF (AC-FT)	4970
10 PERCENT EXCEEDS	12
50 PERCENT EXCEEDS	4.7
90 PERCENT EXCEEDS	2.7

e Estimated

VIRGIN RIVER BASIN

09418700 MEADOW VALLEY WASH NEAR ROX, NV

LOCATION.--Lat 36°50'24", long 114°39'29", in NW 1/4 NW 1/4 sec.25, T.13 S., R.65 E., Clark County, Hydrologic Unit 15010013, on left bank, about 3 miles downstream from Rox.

DRAINAGE AREA.--2,384 mi².

PERIOD OF RECORD.--February 1987 to September 1994, at site about 2 miles upstream, October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,855 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Several diversions for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft³/s, February 10, 1993, gage height, 7.02 ft; minimum daily, 0.14 ft³/s August 9, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft³/s, August 16, no gage height; minimum daily, 0.00 ft³/s many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.47	1.0	1.0	1.1	1.5	e1.9	e1.9	e1.3	0.46	0.16	0.00	0.00
2	0.52	1.1	0.94	1.1	1.4	e1.9	e1.9	e1.3	0.46	0.15	0.00	0.00
3	0.54	1.0	0.90	1.1	1.3	e1.9	e1.9	e1.3	0.47	0.15	0.00	0.00
4	0.57	1.1	0.88	1.1	1.2	e1.8	e1.9	e1.3	0.46	0.15	0.00	0.00
5	0.56	1.1	0.87	1.1	e1.3	e1.8	e1.9	e1.3	0.46	0.15	0.00	0.00
6	0.51	1.2	0.87	1.1	e1.3	e1.8	e1.8	e1.3	0.44	0.15	0.00	0.00
7	0.49	1.3	0.85	1.1	e1.3	e1.8	e1.8	e1.1	0.44	0.13	0.00	0.00
8	0.49	1.3	0.81	1.1	e1.3	e1.8	e1.8	1.1	0.45	0.10	0.00	0.00
9	0.50	1.3	0.81	1.1	e1.3	e1.8	e1.8	1.1	0.47	0.10	0.00	0.00
10	0.51	1.4	0.80	1.2	e1.3	e1.8	e1.8	1.1	0.43	0.08	0.00	0.00
11	0.52	1.4	0.83	1.2	e1.3	e1.8	e1.7	1.1	0.48	0.04	0.00	0.00
12	0.52	1.2	0.85	1.2	e1.4	e1.8	e1.7	1.1	0.49	0.01	0.00	0.00
13	0.51	1.4	0.86	1.2	e1.5	e1.8	e1.7	1.1	0.47	0.01	0.00	0.00
14	0.53	1.3	0.87	1.2	e1.5	e1.8	e1.7	1.1	0.46	0.00	0.00	0.00
15	0.54	1.3	0.87	1.2	e1.5	e1.8	e1.7	1.0	0.43	0.00	0.01	0.00
16	0.57	1.3	0.89	1.1	e1.4	e1.8	e1.6	1.0	0.40	0.00	0.01	0.00
17	0.59	1.3	0.89	1.1	e1.4	e1.8	e1.6	0.85	0.39	0.00	0.00	0.00
18	0.60	1.2	0.91	1.2	e1.4	e1.8	e1.6	0.84	0.37	0.00	0.00	0.00
19	0.60	1.2	0.91	1.2	e1.4	e1.8	e1.6	1.0	0.34	0.00	0.00	0.00
20	0.63	1.2	1.00	1.1	e1.4	e1.8	e1.6	0.70	0.31	0.00	0.00	0.00
21	0.67	1.2	1.0	1.2	e1.4	e1.9	e1.5	0.54	0.32	0.00	0.00	0.00
22	0.68	1.1	1.0	1.2	e1.4	e1.9	e1.5	0.54	0.29	0.00	0.00	0.00
23	0.71	1.1	1.0	1.2	e1.5	e1.9	e1.5	0.52	0.29	0.00	0.00	0.00
24	0.75	1.1	1.0	1.2	e1.6	e1.9	e1.5	0.58	0.27	0.00	0.00	0.00
25	0.79	1.1	1.0	1.2	e1.6	e1.9	e1.5	0.55	0.27	0.00	0.00	0.00
26	0.91	1.1	1.0	1.2	e1.7	e1.9	e1.4	0.53	0.24	0.00	0.00	0.00
27	1.0	1.1	1.0	1.3	e1.7	e1.9	e1.4	0.54	0.21	0.00	0.00	0.00
28	0.94	1.1	1.1	1.3	e1.7	e1.9	e1.4	0.51	0.20	0.00	0.00	0.00
29	0.95	1.1	1.1	1.3	---	e1.9	e1.4	0.50	0.18	0.00	0.00	0.00
30	0.96	1.0	1.1	1.4	---	e1.9	e1.4	0.49	0.16	0.00	0.00	0.00
31	0.95	---	1.1	1.4	---	e1.9	---	0.46	---	0.00	0.00	---
TOTAL	20.08	35.6	29.01	36.7	40.0	57.2	49.5	27.75	11.11	1.38	0.02	0.00
MEAN	0.65	1.19	0.94	1.18	1.43	1.85	1.65	0.90	0.37	0.045	0.001	0.000
MAX	1.0	1.4	1.1	1.4	1.7	1.9	1.9	1.3	0.49	0.16	0.01	0.00
MIN	0.47	1.0	0.80	1.1	1.2	1.8	1.4	0.46	0.16	0.00	0.00	0.00
AC-FT	40	71	58	73	79	113	98	55	22	2.7	0.04	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

MEAN	0.78	1.36	1.60	3.96	11.6	5.72	2.10	1.36	0.72	0.62	0.66	0.67
MAX	1.08	2.98	3.22	21.0	84.2	21.7	3.64	2.07	1.08	1.40	2.52	2.18
(WY)	2002	1988	1988	1993	1993	1992	1988	1989	1993	1992	1988	1990
MIN	0.65	0.95	0.94	1.18	1.42	1.38	1.00	0.79	0.37	0.045	0.001	0.000
(WY)	2003	1990	2003	2003	1990	1994	1994	1994	2003	2003	2003	2003

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1987 - 2003

ANNUAL TOTAL		358.57		308.35								
ANNUAL MEAN		0.98		0.84						2.59		
HIGHEST ANNUAL MEAN										10.8		1993
LOWEST ANNUAL MEAN										0.84		2003
HIGHEST DAILY MEAN				2.2	Mar 29		1.9	Mar 1		693	Feb 10	1993
LOWEST DAILY MEAN				0.23	Aug 16		0.00	Jul 14		0.00	Jul 14	2003
ANNUAL SEVEN-DAY MINIMUM				0.24	Aug 13		0.00	Jul 14		0.00	Jul 14	2003
MAXIMUM PEAK FLOW							83	Aug 16		1620	Feb 10	1993
MAXIMUM PEAK STAGE										7.02	Feb 10	1993
ANNUAL RUNOFF (AC-FT)			711				612			1870		
10 PERCENT EXCEEDS				1.7			1.8			2.7		
50 PERCENT EXCEEDS				1.0			0.95			1.2		
90 PERCENT EXCEEDS				0.30			0.00			0.38		

e Estimated

VIRGIN RIVER BASIN

09419507 MUDDY RIVER AT LEWIS AVENUE AT OVERTON, NV

LOCATION.--Lat 36°32'07", long 114°25'42", in NE 1/4 NW 1/4 sec.19, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010012, on left wing wall of upstream side of arched, concrete/corrugated-metal culvert on Lewis Avenue, .25 mi east of State Route 169, .05 mi upstream of Overton Wash, and 1.5 mi upstream from Lake Mead.

DRAINAGE AREA.--6,940 mi², of which approximately 3,240 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--August 1997 to current year. Records for August and September 1997 available from Southern Nevada Water Authority.

REVISED RECORDS.--WDR NV-99-1: 1998.

GAGE.--Water-stage recorder. Elevation of gage is 1,251 ft above mean sea level, from gps static observation, using NAVD-88, by Southern Nevada Water Authority.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge at gage is predominantly irrigation return flow. An irrigation diversion approximately 7 mi upstream of the gage diverts the entire base flow of the Muddy River. At discharges greater than 215 ft³/s, flow can bypass the main channel immediately above the gage. See schematic diagram of Colorado River Basin.

COOPERATION.--Partial years record provided by Southern Nevada Water Authority and reviewed by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,300 ft³/s, September 12, 1998, gage height 9.88 ft; minimum daily, 3.1 ft³/s, August 2, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of operation, 40 ft³/s, March 17, gage height, 4.64 ft; minimum daily, 3.6 ft³/s, May 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	---	---	---	---	9.5	12	8.2	---	---	---	---
2	11	---	---	---	---	8.5	11	9.7	---	---	---	---
3	13	---	---	---	---	7.4	10	7.7	---	---	---	---
4	9.1	---	---	---	---	8.0	14	e10	---	---	---	---
5	---	---	---	---	---	7.8	13	e11	---	---	---	---
6	---	---	---	---	---	8.7	14	e12	---	---	---	---
7	---	---	---	---	---	8.1	15	e9.9	---	---	---	---
8	---	---	---	---	9.5	12	17	e10	---	---	---	---
9	---	---	---	---	11	8.1	15	e10	---	---	---	---
10	---	---	---	---	6.0	6.1	15	e9.5	---	---	---	---
11	---	---	---	---	10	5.8	16	e7.9	---	---	---	---
12	---	---	---	---	13	6.4	15	e9.1	---	---	---	10
13	---	---	---	---	28	8.1	12	e11	---	---	---	14
14	---	---	---	---	32	12	14	e9.8	---	---	---	8.9
15	---	---	---	---	28	11	18	e8.3	---	---	---	7.5
16	---	---	---	---	27	9.8	16	e8.8	---	---	---	9.3
17	---	---	---	---	26	12	22	8.0	---	---	---	7.4
18	---	---	---	---	25	14	17	6.9	---	---	---	4.7
19	---	---	---	---	21	11	10	11	---	---	---	10
20	---	---	---	---	20	13	10	12	---	---	---	7.3
21	---	---	---	---	25	12	10	7.8	---	---	---	5.3
22	---	---	---	---	27	12	8.6	10	---	---	---	8.3
23	---	---	---	---	26	10	9.9	8.0	---	---	---	6.9
24	---	---	---	---	23	9.7	10	6.4	---	---	---	9.6
25	---	---	---	---	15	12	8.5	4.2	---	---	---	8.7
26	---	---	---	---	15	13	8.3	7.3	---	---	---	14
27	---	---	---	---	8.7	11	8.1	7.1	---	---	---	9.1
28	---	---	---	---	10	8.2	7.7	8.5	---	---	---	10
29	---	---	---	---	---	12	5.3	9.0	---	---	---	10
30	---	---	---	---	---	15	6.0	7.2	---	---	---	7.4
31	---	---	---	---	---	14	---	3.6	---	---	---	---
TOTAL	---	---	---	---	---	316.2	368.4	269.9	---	---	---	---
MEAN	---	---	---	---	---	10.2	12.3	8.71	---	---	---	---
MAX	---	---	---	---	---	15	22	12	---	---	---	---
MIN	---	---	---	---	---	5.8	5.3	3.6	---	---	---	---
AC-FT	---	---	---	---	---	627	731	535	---	---	---	---

e Estimated

VIRGIN RIVER BASIN

09419547 BLUE POINT SPRINGS NEAR VALLEY OF FIRE STATE PARK, NV

LOCATION.--Lat 36°23'24", long 114°25'59", in NW 1/4 NE 1/4 sec.7, T.18 S., R.68 E., Clark County, Hydrologic Unit 15010005, on left bank, in Lake Mead National Recreation Area, about 4 mi east of Valley of Fire State Park, and 13 mi south of Overton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1998 to September 1999 (discharge measurements only); October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,540 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.70 ft³/s, October 16, 18, 19, 1999, gage height, 4.04 ft; minimum daily, 0.45 ft³/s, March 8, 9, 2000, January 10 through February 3.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.59 ft³/s, April 14, 15, 17, gage height, 4.00 ft; minimum daily, 0.52 ft³/s, October 1 and 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.52	0.56	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.55	0.54	e0.55
2	0.52	0.56	0.54	0.54	0.54	e0.54	0.56	0.54	0.56	0.55	0.54	e0.55
3	0.54	0.55	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.55	0.54	e0.55
4	0.54	0.54	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	0.54	e0.55
5	0.54	0.54	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	0.54	e0.55
6	0.54	0.55	0.54	0.54	0.54	0.54	0.56	0.55	0.56	0.54	0.54	e0.55
7	0.55	0.56	0.54	0.54	0.54	0.54	0.55	0.56	0.56	0.54	0.54	e0.55
8	0.56	0.56	0.54	0.54	0.54	0.54	0.55	0.56	0.56	0.54	0.54	e0.55
9	0.56	0.56	0.54	0.54	0.54	0.54	0.56	0.56	0.56	0.54	0.54	e0.55
10	0.56	0.55	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	0.54	e0.55
11	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	0.54	e0.55
12	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.55	0.56	0.54	0.54	e0.55
13	0.56	0.54	0.54	0.54	0.54	e0.55	0.56	0.56	0.55	0.54	0.54	e0.55
14	0.56	0.54	0.54	0.54	0.54	0.55	0.58	0.56	0.55	0.54	0.54	e0.55
15	0.56	0.54	0.54	0.54	0.54	0.56	0.57	0.55	0.55	0.54	0.54	e0.55
16	0.56	0.54	0.54	0.54	0.54	0.56	0.56	0.55	0.56	0.54	0.54	e0.55
17	0.56	0.54	0.54	0.54	0.54	0.56	0.57	0.56	0.56	0.54	0.54	e0.55
18	0.56	0.54	0.54	0.54	0.54	0.56	0.56	0.56	0.56	0.54	0.54	e0.55
19	0.56	0.54	0.54	0.54	0.54	0.55	0.56	0.54	0.56	0.54	e0.55	0.56
20	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	e0.55	0.56
21	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.54	e0.55	0.56
22	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.55	0.56	0.54	e0.55	0.56
23	0.56	0.54	0.54	0.54	0.54	0.55	0.56	0.56	0.56	0.54	e0.55	0.56
24	0.56	0.54	0.54	0.54	0.54	0.54	0.56	0.56	0.54	0.54	e0.55	0.56
25	0.56	0.54	0.54	0.54	e0.54	0.54	0.56	0.56	0.54	0.54	e0.55	0.56
26	0.56	0.54	0.54	0.54	0.54	0.55	0.55	0.56	0.54	0.54	e0.55	0.56
27	0.56	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.55	0.54	e0.55	0.56
28	0.56	0.54	0.54	0.54	0.54	0.56	0.54	0.56	0.55	0.54	e0.55	0.56
29	0.56	0.54	0.54	0.54	---	0.56	0.54	0.56	0.55	0.54	e0.55	0.56
30	0.56	0.54	0.54	0.54	---	0.56	0.54	0.56	0.56	0.54	e0.55	0.56
31	0.56	---	0.54	0.54	---	0.56	---	0.56	---	0.54	e0.55	---
TOTAL	17.19	16.33	16.74	16.74	15.12	16.97	16.73	17.11	16.68	16.77	16.87	16.62
MEAN	0.55	0.54	0.54	0.54	0.54	0.55	0.56	0.55	0.56	0.54	0.54	0.55
MAX	0.56	0.56	0.54	0.54	0.54	0.56	0.58	0.56	0.56	0.55	0.55	0.56
MIN	0.52	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.55
AC-FT	34	32	33	33	30	34	33	34	33	33	33	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	0.56	0.56	0.54	0.55	0.53	0.53	0.56	0.54	0.55	0.56	0.55	0.55
MAX	0.59	0.62	0.61	0.65	0.55	0.56	0.57	0.57	0.59	0.61	0.62	0.63
(WY)	2002	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001
MIN	0.52	0.52	0.49	0.46	0.48	0.51	0.55	0.50	0.48	0.48	0.48	0.49
(WY)	2001	2002	2002	2002	2002	2000	2002	2000	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 2000 - 2003

ANNUAL TOTAL	185.25	199.87	
ANNUAL MEAN	0.51	0.55	0.55
HIGHEST ANNUAL MEAN			0.57 2001
LOWEST ANNUAL MEAN			0.50 2002
HIGHEST DAILY MEAN	0.56 Apr 14	0.58 Apr 14	0.67 Oct 19 1999
LOWEST DAILY MEAN	0.45 Jan 10	0.52 Oct 1	0.45 Mar 8 2000
ANNUAL SEVEN-DAY MINIMUM	0.45 Jan 10	0.54 Oct 1	0.45 Jan 10 2002
MAXIMUM PEAK FLOW		0.59 Apr 14	0.70 Oct 16 1999
MAXIMUM PEAK STAGE		4.00 Apr 14	4.04 Oct 16 1999
ANNUAL RUNOFF (AC-FT)	367	396	398
10 PERCENT EXCEEDS	0.56	0.56	0.62
50 PERCENT EXCEEDS	0.49	0.54	0.55
90 PERCENT EXCEEDS	0.47	0.54	0.49

e Estimated

VIRGIN RIVER BASIN

09419550 ROGERS SPRING NEAR OVERTON BEACH, NV

LOCATION.--Lat 36°22'36", long 114°26'33", in SE 1/4 SE 1/4 sec.12, T.18 S., R.67 E., Clark County, Hydrologic Unit 15010005, on left bank, in Lake Mead National Recreation Area, 6.6 mi southwest of Overton Beach, and 14 mi south of Overton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,570 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Minor temporary regulation for recreation upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26 ft³/s, August 16, 1990, from rating curve extended above 2.2 ft³/s, on basis of velocity-area study; minimum daily, 0.90 ft³/s, August 25, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.90 ft³/s, many days, gage height, 0.74 ft; minimum daily, 1.6 ft³/s, several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7
2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
10	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
11	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
12	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6
13	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	e1.7
16	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	e1.7
17	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	e1.7
18	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	e1.7
19	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
20	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
21	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
22	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
23	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
24	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
25	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
26	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
27	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7
28	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7
29	1.7	1.7	1.7	1.7	---	1.7	1.7	1.7	1.6	1.7	1.7	1.7
30	1.7	1.7	1.7	1.7	---	1.7	1.7	1.7	1.6	1.7	1.7	1.7
31	1.7	---	1.7	1.7	---	1.7	---	1.7	---	1.7	1.7	---
TOTAL	52.7	51.0	52.7	52.7	47.6	52.7	51.0	52.7	50.8	52.4	52.7	50.8
MEAN	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.69	1.69	1.70	1.69
MAX	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
MIN	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.6
AC-FT	105	101	105	105	94	105	101	105	101	104	105	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	1.69	1.68	1.66	1.65	1.66	1.63	1.61	1.62	1.67	1.67	1.68	1.67	1.67	1.68	1.67	1.67	1.67	1.67	1.67
MAX	1.85	1.92	1.89	2.16	2.28	1.94	1.82	1.80	1.89	1.88	2.02	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
(WY)	2000	1991	1993	1993	1993	1993	2000	1995	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
MIN	1.54	1.55	1.43	1.27	1.23	1.25	1.22	1.37	1.46	1.38	1.35	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
(WY)	1996	1997	1997	1986	1992	1987	1987	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1989

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1985 - 2003

ANNUAL TOTAL	621.0	619.8	
ANNUAL MEAN	1.70	1.70	1.66
HIGHEST ANNUAL MEAN			1.88 1993
LOWEST ANNUAL MEAN			1.47 1992
HIGHEST DAILY MEAN	1.8 Feb 28	1.7 Oct 1	2.8 Aug 16 1990
LOWEST DAILY MEAN	1.7 Jan 1	1.6 Jun 29	0.90 Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	1.7 Jan 1	1.7 Jun 25	1.1 Feb 25 1986
MAXIMUM PEAK FLOW			26 Aug 16 1990
MAXIMUM PEAK STAGE			3.31 Aug 16 1990
ANNUAL RUNOFF (AC-FT)	1230	1230	1200
10 PERCENT EXCEEDS	1.7	1.7	1.8
50 PERCENT EXCEEDS	1.7	1.7	1.7
90 PERCENT EXCEEDS	1.7	1.7	1.5

e Estimated

LAS VEGAS VALLEY

09419625 CORN CREEK SPRING AT NATIONAL FISH AND WILDLIFE HEADQUARTERS, NV

LOCATION.--Lat 36°26'20", long 115°21'26", in NW 1/4 NE 1/4 sec.34, T.17 S., R.59 E., Clark County, Hydrologic Unit 15010015, in Desert National Wildlife Range, on right bank, at National Fish and Wildlife Headquarters complex, 4 mi east of U. S. Highway 95, and 20 mi northwest of Las Vegas.

DRAINAGE AREA--Indeterminate.

PERIOD OF RECORD.--July 1985 to September 1994, January 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,790 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.10 ft³/s, April 2, 1989, gage height, 1.44 ft; minimum daily, 0.24 ft³/s, many days some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.37 ft³/s, August 28 and September 17-30, gage height, 1.01 ft, minimum daily, 0.22 ft³/s, March 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.35	0.35	0.35	0.34	0.34	0.35	0.28	0.30	0.28	0.30	0.33	0.35
2	0.35	0.35	0.35	0.34	0.34	0.35	0.28	0.30	0.28	0.30	0.32	0.35
3	0.35	0.35	0.35	0.34	0.34	0.35	0.28	0.30	0.28	0.30	0.32	0.35
4	0.35	0.35	0.35	0.34	0.34	0.35	0.28	0.30	0.28	0.30	0.32	0.35
5	0.35	0.35	0.35	0.35	0.34	0.35	0.29	0.30	0.28	0.32	0.32	0.35
6	0.35	0.35	0.35	e0.35	0.35	0.35	0.29	0.30	0.31	0.32	0.33	0.35
7	0.35	0.35	0.35	e0.35	0.35	0.35	0.28	0.30	0.29	0.32	0.34	0.35
8	0.35	0.35	0.35	e0.34	0.35	0.35	0.28	0.30	0.28	0.32	0.32	0.35
9	0.35	0.35	0.35	0.34	0.35	0.35	0.28	0.30	0.28	0.32	0.32	0.35
10	0.35	0.35	0.35	0.34	0.35	e0.33	0.28	0.30	0.28	0.32	0.32	0.35
11	0.35	0.35	0.35	0.34	0.35	e0.32	0.28	0.30	0.30	0.32	0.32	0.35
12	0.35	0.35	0.35	0.34	0.35	0.31	0.28	0.30	0.30	0.32	0.32	0.36
13	0.35	0.35	0.35	0.34	0.35	0.30	0.28	0.30	0.30	0.32	0.33	0.35
14	0.35	0.35	0.35	0.34	0.35	0.30	0.28	0.30	0.30	0.32	0.33	0.36
15	0.35	0.35	0.35	0.34	0.35	0.30	0.29	0.30	0.30	0.32	0.34	0.36
16	0.35	0.35	0.35	0.34	0.34	0.30	0.28	0.30	0.30	0.32	0.34	0.36
17	0.35	0.35	0.35	0.34	0.34	0.30	0.28	0.30	0.30	0.31	0.32	0.37
18	0.35	0.35	0.35	0.34	0.34	0.30	0.28	0.30	0.30	0.32	0.33	0.37
19	0.35	0.35	0.35	0.34	0.34	0.30	0.30	0.30	0.30	0.34	0.35	0.37
20	0.35	0.35	0.35	0.34	0.34	0.30	0.30	0.30	0.30	0.34	0.35	0.37
21	0.35	0.35	0.35	0.34	0.34	0.30	0.30	0.30	0.30	0.33	0.35	0.37
22	0.35	0.35	0.35	0.34	0.34	0.30	0.30	0.30	0.30	0.32	0.35	0.37
23	0.35	0.35	0.35	0.34	0.35	0.30	0.30	0.30	0.30	0.32	0.35	0.37
24	0.35	0.36	0.35	0.34	0.35	0.30	0.30	0.30	0.30	0.34	0.35	0.37
25	0.35	0.36	0.35	0.34	0.35	0.30	0.30	0.29	0.30	0.35	0.35	0.37
26	0.35	0.35	0.35	0.34	0.35	0.30	0.30	0.29	0.30	0.33	0.35	0.37
27	0.35	0.35	0.35	0.34	0.35	0.30	0.30	0.30	0.30	0.33	0.36	0.37
28	0.35	0.35	0.35	0.34	0.35	0.28	0.30	0.30	0.30	0.33	0.37	0.37
29	0.35	0.35	0.35	0.34	---	0.28	0.30	0.28	0.30	0.34	0.36	0.37
30	0.35	0.35	0.34	0.34	---	0.28	0.30	0.28	0.30	0.33	0.35	0.37
31	0.35	---	0.34	0.34	---	0.28	---	0.28	---	0.33	0.35	---
TOTAL	10.85	10.52	10.83	10.57	9.68	9.73	8.67	9.22	8.84	10.00	10.46	10.82
MEAN	0.35	0.35	0.35	0.34	0.35	0.31	0.29	0.30	0.29	0.32	0.34	0.36
MAX	0.35	0.36	0.35	0.35	0.35	0.35	0.30	0.30	0.31	0.35	0.37	0.37
MIN	0.35	0.35	0.34	0.34	0.34	0.28	0.28	0.28	0.28	0.30	0.32	0.35
AC-FT	22	21	21	21	19	19	17	18	18	20	21	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2003, BY WATER YEAR (WY)

MEAN	0.30	0.30	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
MAX	0.36	0.37	0.39	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.37	0.36
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	1999	2002	2002	2003
MIN	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.25	0.25
(WY)	1987	1987	1987	1987	1987	1987	1994	1987	1987	1987	1987	1987

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1985 - 2003

ANNUAL TOTAL	131.85	120.19	
ANNUAL MEAN	0.36	0.33	0.30
HIGHEST ANNUAL MEAN			0.37 2002
LOWEST ANNUAL MEAN			0.25 1987
HIGHEST DAILY MEAN	0.39 Jan 14	0.37 Aug 28	0.39 Oct 22 2000
LOWEST DAILY MEAN	0.34 Jun 26	0.28 Mar 28	0.24 Jul 14 1985
ANNUAL SEVEN-DAY MINIMUM	0.34 Jun 26	0.28 Mar 28	0.24 May 17 1987
MAXIMUM PEAK FLOW		0.37 Aug 28	1.1 Apr 2 1989
MAXIMUM PEAK STAGE		1.01 Aug 28	1.44 Apr 2 1989
ANNUAL RUNOFF (AC-FT)	262	238	218
10 PERCENT EXCEEDS	0.38	0.35	0.35
50 PERCENT EXCEEDS	0.36	0.34	0.29
90 PERCENT EXCEEDS	0.35	0.30	0.25

e Estimated

LAS VEGAS VALLEY

094196497 GOWAN DETENTION BASIN OUTLET NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°14'35", long 115°09'24", in SW 1/4 NE 1/4 sec.04, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Camino Al Norte Road, 0.3 mi northeast of Craig Road, and 3.8 mi north of North Las Vegas.

DRAINAGE AREA.--113.06 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,060 ft above NGVD of 1929, from topographic map. Prior to October 1, 1995 at datum 9.0 ft lower.

REMARKS.-- Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s, August 9, 1997, gage height, 10.33 ft, maximum gage height, 11.55 ft, July 8, 1999; no flow many days. Maximum daily precipitation, 1.32 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 286 ft³/s, August 19, gage height, 10.71 ft; no flow many days. Maximum daily precipitation, 0.68 inches, February 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.02	0.11	0.07	0.00	0.04	0.00	0.03	0.00	0.00	0.06	0.54
2	0.03	0.00	0.01	0.07	0.00	0.03	0.00	0.05	0.02	0.01	0.03	0.43
3	0.01	0.00	0.04	0.09	0.05	0.00	0.00	0.00	0.03	0.01	0.02	0.56
4	0.00	0.00	0.00	0.17	0.05	0.00	0.00	0.01	0.03	0.01	0.02	0.73
5	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.01	0.01	0.01	0.02	0.59
6	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.03	0.02	0.02	0.02	0.49
7	0.02	0.01	0.01	0.05	0.05	0.00	0.01	0.05	0.00	0.02	0.02	0.38
8	0.02	0.03	0.00	0.22	0.03	0.00	0.00	0.05	0.00	0.00	0.02	0.13
9	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.04	0.02	0.00	0.02	0.27
10	0.00	0.01	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.02	0.29
11	0.01	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.41
12	0.00	0.02	0.00	0.01	8.1	0.00	0.01	0.03	0.00	0.00	0.02	0.45
13	0.01	0.00	0.01	0.00	13	0.02	0.00	0.05	0.00	0.00	0.03	0.35
14	0.00	0.00	0.00	0.04	0.02	0.01	1.2	0.02	0.00	0.01	0.03	0.16
15	0.01	0.01	0.00	0.00	0.00	0.00	4.0	0.00	0.00	0.01	0.04	0.27
16	0.00	0.00	0.01	0.00	0.00	0.53	0.01	0.00	0.01	0.04	0.22	0.13
17	0.02	0.00	0.03	0.00	0.00	0.04	0.00	0.00	e0.00	0.07	0.35	0.25
18	0.01	0.00	0.00	0.01	0.00	0.03	0.18	0.00	e0.00	0.07	0.01	0.42
19	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.00	e0.00	2.9	45	0.04
20	0.01	0.00	0.01	0.00	0.04	0.00	0.00	0.00	e0.00	0.03	41	0.30
21	0.03	0.01	0.07	0.01	0.01	0.00	0.00	0.00	e0.00	0.02	1.2	0.13
22	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	e0.00	0.01	0.62	0.13
23	0.04	0.03	0.00	0.00	0.00	0.01	0.00	0.01	e0.00	0.02	0.62	0.22
24	0.02	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.12	0.59	0.50
25	0.01	0.00	0.00	0.01	4.7	0.00	0.14	0.00	0.00	1.1	0.59	0.42
26	0.10	0.02	0.00	0.00	18	0.00	0.07	0.00	0.00	0.05	0.80	0.40
27	0.12	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.03	0.74	0.43
28	0.01	0.01	0.00	0.01	0.04	0.01	0.00	0.02	0.00	0.02	0.59	0.39
29	0.03	0.00	0.00	0.01	---	0.00	0.00	0.01	0.00	0.03	0.61	0.44
30	0.02	0.49	0.00	0.00	---	0.01	0.00	0.01	0.00	0.23	0.57	0.46
31	0.02	---	0.00	0.00	---	0.00	---	0.01	---	0.21	0.56	---
TOTAL	0.59	0.67	0.33	0.86	44.37	0.74	5.65	0.44	0.14	5.05	94.46	10.71
MEAN	0.019	0.022	0.011	0.028	1.58	0.024	0.19	0.014	0.005	0.16	3.05	0.36
MAX	0.12	0.49	0.11	0.22	18	0.53	4.0	0.05	0.03	2.9	45	0.73
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04
AC-FT	1.2	1.3	0.7	1.7	88	1.5	11	0.9	0.3	10	187	21
†	0.24	0.24	0.00	0.00	1.52	0.16	0.44	0.00	0.00	0.28	0.24	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	0.16	0.30	0.35	0.75	3.78	0.95	0.87	0.50	0.26	2.10	1.13	1.23
MAX	0.62	2.89	1.79	5.47	16.1	7.21	5.69	4.44	1.09	17.6	5.75	7.79
(WY)	2001	1997	1995	1995	1998	1998	1997	1997	1997	1999	2000	1998
MIN	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.012	0.000
(WY)	1992	1993	1994	1994	1999	1993	1992	1993	1993	1993	1993	1993

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1992 - 2003

ANNUAL TOTAL	9.00	164.01	
ANNUAL MEAN	0.025	0.45	1.10
HIGHEST ANNUAL MEAN			2.79 1998
LOWEST ANNUAL MEAN			0.041 2002
HIGHEST DAILY MEAN	0.52 Sep 11	45 Aug 19	290 Jul 9 1999
LOWEST DAILY MEAN	0.00 Jan 4	0.00 Oct 1	0.00 Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	0.00 Jan 14	0.00 Dec 23	0.00 Oct 1 1991
MAXIMUM PEAK FLOW		286 Aug 19	644 Aug 9 1997
MAXIMUM PEAK STAGE		10.71 Aug 19	11.55 Jul 8 1999
ANNUAL RUNOFF (AC-FT)	18	325	796
10 PERCENT EXCEEDS	0.04	0.41	0.38
50 PERCENT EXCEEDS	0.02	0.01	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

094196557 LAS VEGAS CREEK AT MEADOWS DETENTION BASIN AT LAS VEGAS, NV

LOCATION.--Lat 36°10'30", long 115°10'50", in SE 1/4 SW 1/4 sec.29, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank upstream of box culvert, 0.1 mi. downstream of Las Vegas Valley Water District reservoir, and 0.4 mi east of intersection of U.S. Highway 95 and Rancho Boulevard.

DRAINAGE AREA.--6.57 mi².

PERIOD OF RECORD.--March 1989 to March 2002, February, 2003 to current year. Gage temporarily discontinued due to rehabilitation project on detention basin. Records prior to October 1993 not published but are available in files of U.S. Geological Survey.

REVISED RECORDS.-- WDR NV-99-1: 1996-98 (m).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,100 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s, July 15, 1996, gage height, 11.44 ft; maximum gage height, 11.76 ft., June 10, 1990; minimum daily, 0.02 ft³/s, many days November 1997 to February 1998. Maximum daily precipitation, 1.72 inches, February 8, 1993

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2.0 ft³/s February 26 and August 26, gage height, 10.24 ft; minimum daily, 0.22 ft³/s, April 22-23. Maximum daily precipitation, 0.72 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	e0.37	0.28	0.23	0.26	0.33	0.43	e0.52	0.49
2	---	---	---	---	e0.37	0.24	0.23	0.26	0.42	0.44	e0.48	0.51
3	---	---	---	---	e0.31	0.23	0.23	0.25	0.38	0.45	e0.47	0.50
4	---	---	---	---	e0.37	0.23	0.23	0.26	0.43	0.49	e0.47	0.55
5	---	---	---	---	e0.36	0.23	0.23	0.28	0.39	0.50	0.51	0.51
6	---	---	---	---	e0.30	0.23	0.23	0.29	0.36	0.49	0.49	0.49
7	---	---	---	---	e0.38	0.23	0.23	0.28	0.37	0.50	0.48	0.48
8	---	---	---	---	e0.30	0.23	0.23	0.27	0.38	0.49	0.50	0.48
9	---	---	---	---	e0.35	0.23	0.23	0.30	0.37	0.47	0.50	e0.49
10	---	---	---	---	e0.39	0.23	0.23	0.29	0.37	0.50	0.51	e0.48
11	---	---	---	---	0.31	0.23	0.23	0.29	0.35	0.50	0.51	e0.47
12	---	---	---	---	0.40	0.24	0.23	0.29	0.35	0.50	0.50	0.58
13	---	---	---	---	0.41	0.23	0.23	0.29	0.37	0.51	0.50	0.49
14	---	---	---	---	0.31	0.23	e0.44	0.28	0.37	0.51	0.51	0.48
15	---	---	---	---	0.30	0.23	e0.50	0.29	0.37	0.51	0.50	0.46
16	---	---	---	---	0.28	0.41	e0.23	0.30	0.37	0.56	0.52	0.45
17	---	---	---	---	0.28	0.24	e0.23	0.30	0.37	0.48	0.64	0.49
18	---	---	---	---	0.28	0.24	e0.23	0.31	0.39	0.48	0.48	0.52
19	---	---	---	---	0.26	0.23	e0.23	0.30	0.39	0.57	0.49	0.48
20	---	---	---	---	0.32	0.23	e0.23	0.32	0.39	0.49	0.64	0.47
21	---	---	---	---	0.26	0.23	e0.23	0.29	0.38	0.50	0.48	0.47
22	---	---	---	---	0.26	0.23	0.22	0.37	0.38	0.50	0.48	0.58
23	---	---	---	---	0.25	0.23	0.22	0.30	0.39	0.50	0.49	0.53
24	---	---	---	---	0.25	0.23	0.23	0.32	0.42	0.52	0.48	0.45
25	---	---	---	---	0.34	0.23	0.24	0.31	0.42	0.60	0.49	0.45
26	---	---	---	---	0.32	0.23	0.24	0.31	0.42	0.50	0.70	0.47
27	---	---	---	---	0.24	0.23	0.24	0.32	0.43	0.49	0.52	0.45
28	---	---	---	---	0.33	0.23	0.24	0.33	0.42	0.50	0.48	0.44
29	---	---	---	---	---	0.23	0.25	0.32	0.43	0.49	0.48	0.45
30	---	---	---	---	---	0.23	0.26	0.33	0.43	0.49	0.49	0.49
31	---	---	---	---	---	0.23	---	0.32	---	e0.60	0.49	---
TOTAL	---	---	---	---	8.90	7.40	7.45	9.23	11.64	15.56	15.80	14.65
MEAN	---	---	---	---	0.32	0.24	0.25	0.30	0.39	0.50	0.51	0.49
MAX	---	---	---	---	0.41	0.41	0.50	0.37	0.43	0.60	0.70	0.58
MIN	---	---	---	---	0.24	0.23	0.22	0.25	0.33	0.43	0.47	0.44
AC-FT	---	---	---	---	18	15	15	18	23	31	31	29
†	---	---	---	---	2.18	0.24	0.56	0.00	0.00	0.27	0.20	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2003, BY WATER YEAR (WY)

MEAN	0.50	0.53	0.49	0.73	1.13	0.85	0.61	0.89	0.90	1.16	0.90	0.85
MAX	1.35	1.43	2.01	4.46	3.64	2.15	1.79	3.16	2.63	6.17	2.97	3.43
(WY)	1994	1997	1995	1995	2001	1992	1996	1997	1997	1999	1997	1997
MIN	0.080	0.073	0.11	0.10	0.10	0.15	0.20	0.19	0.17	0.14	0.30	0.21
(WY)	1996	2001	2001	1994	1996	1999	1992	1999	1992	1992	1992	2000

SUMMARY STATISTICS

WATER YEARS 1989 - 2003

ANNUAL MEAN	0.83
HIGHEST ANNUAL MEAN	1.41 1997
LOWEST ANNUAL MEAN	0.38 1991
HIGHEST DAILY MEAN	73 Jul 9 1999
LOWEST DAILY MEAN	0.02 Nov 28 1997
ANNUAL SEVEN-DAY MINIMUM	0.02 Nov 28 1997
MAXIMUM PEAK FLOW	195 Jul 15 1996
MAXIMUM PEAK STAGE	11.76 Jun 10 1990
ANNUAL RUNOFF (AC-FT)	603
10 PERCENT EXCEEDS	1.4
50 PERCENT EXCEEDS	0.31
90 PERCENT EXCEEDS	0.10

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419658 LAS VEGAS WASH NEAR SAHARA AVENUE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'47", long 115°03'07", in SW 1/4 SE 1/4 sec.4, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on south side of golf cart bridge, 1,200 ft south at Sahara Avenue and 0.5 mi east of Nellis Boulevard.

DRAINAGE AREA.--1,146 mi².

PERIOD OF RECORD.--March 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.01 inch increment. Elevation of gage is 1,715 ft above NGVD of 1929, from topographic map. Prior to October 14, 1994, at site 1,200 ft upstream at same datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s, July 8, 1999, gage height, 13.69 ft; no flow many days, some years. Maximum daily precipitation, 1.56 inches, June 10, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,640 ft³/s, February 26, gage height, 11.52 ft; minimum daily, 1.40 ft³/s, September 15, 16. Maximum daily precipitation, 0.48 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.8	86	3.6	2.7	4.6	6.9	4.9	4.1	4.2	4.5	3.9
2	7.0	2.8	4.0	3.6	3.0	4.2	6.2	5.2	4.3	4.2	4.2	20
3	7.6	3.0	3.8	3.6	2.3	4.0	5.1	5.5	4.3	4.2	4.2	4.1
4	4.1	3.0	3.8	3.6	1.7	4.0	5.5	5.5	4.2	4.2	4.2	11
5	4.3	2.8	3.4	3.6	1.6	4.0	5.5	5.7	4.2	4.3	4.2	5.7
6	4.3	2.5	e3.5	3.6	1.6	4.0	5.5	6.4	4.2	4.2	4.2	3.9
7	4.4	2.9	e3.5	3.6	1.6	4.0	5.3	5.8	4.2	4.2	3.7	3.9
8	4.8	3.6	e3.5	3.6	1.8	4.0	4.7	5.6	4.2	4.2	3.6	3.9
9	4.8	2.8	e3.5	e4.9	1.8	4.0	4.7	5.0	4.2	4.2	3.6	3.3
10	4.8	2.6	3.6	e3.6	1.9	4.0	4.8	4.9	4.2	4.2	3.6	1.9
11	4.0	2.1	3.2	e3.6	1.9	3.9	4.7	4.6	4.2	4.2	3.6	1.5
12	4.3	2.9	3.0	3.6	271	4.0	4.6	4.6	4.2	4.2	3.6	2.6
13	4.1	3.0	3.1	3.1	203	4.7	4.4	4.8	4.2	4.2	3.6	2.6
14	4.3	2.5	3.1	3.5	2.1	4.8	23	5.1	4.2	4.2	3.6	1.5
15	4.7	2.6	3.2	3.1	2.0	5.9	168	4.5	4.2	4.2	3.7	1.4
16	4.8	2.9	3.3	2.6	1.8	62	5.0	4.5	4.2	4.5	e50	1.4
17	4.8	2.9	e3.4	2.3	e1.8	17	4.8	4.6	4.2	4.3	e20	1.9
18	3.5	2.9	e3.4	2.2	e1.8	7.1	4.7	4.7	4.2	4.1	4.1	3.9
19	4.6	3.1	3.6	2.0	e1.8	4.3	7.9	4.4	4.2	47	e150	4.0
20	4.0	3.2	3.6	2.0	e1.8	4.5	4.4	3.8	4.2	4.3	e350	4.2
21	5.0	3.1	4.8	1.9	e1.8	4.5	4.4	3.1	4.2	4.2	e50	4.4
22	5.1	3.4	29	2.1	e1.8	4.7	4.3	3.5	4.2	4.2	e10	4.5
23	5.3	3.6	15	1.8	e1.8	5.1	4.2	3.7	4.3	4.2	3.4	5.1
24	5.7	3.4	7.4	1.6	9.9	5.8	4.1	3.8	4.3	4.3	3.6	4.0
25	6.7	3.2	4.3	1.6	130	5.2	4.1	3.6	4.3	5.6	3.6	3.9
26	24	3.2	3.7	1.7	362	5.1	5.2	3.0	4.3	4.5	16	4.2
27	29	3.3	3.6	1.6	7.2	5.5	4.4	3.1	4.3	4.3	15	4.9
28	12	3.2	3.6	1.9	122	5.3	4.4	3.3	4.3	4.3	3.9	3.9
29	7.1	3.4	3.6	2.1	---	5.8	4.5	3.5	4.3	4.2	3.9	3.9
30	4.8	23	3.6	2.6	---	5.9	4.6	3.8	4.3	4.2	3.9	3.9
31	3.4	---	3.6	2.6	---	6.5	---	3.9	---	5.5	3.9	---
TOTAL	200.9	109.7	233.7	86.8	1145.5	218.4	329.9	138.4	126.9	176.8	749.4	129.3
MEAN	6.48	3.66	7.54	2.80	40.9	7.05	11.0	4.46	4.23	5.70	24.2	4.31
MAX	29	23	86	4.9	362	62	168	6.4	4.3	47	350	20
MIN	3.4	2.1	3.0	1.6	1.6	3.9	4.1	3.0	4.1	4.1	3.4	1.4
AC-FT	398	218	464	172	2270	433	654	275	252	351	1490	256
†	0.36	0.17	0.00	0.05	1.78	0.21	0.42	0.00	0.00	0.17	0.11	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

MEAN	3.32	3.39	3.87	7.79	18.1	7.85	4.19	3.51	3.71	7.12	7.56	7.05
MAX	13.0	9.11	14.5	50.0	61.6	44.0	13.4	6.16	12.9	59.0	24.2	41.9
(WY)	1993	1997	1993	1995	2001	1992	1999	1989	1990	1999	2003	1997
MIN	0.73	0.18	0.016	0.000	0.77	0.94	0.85	1.33	0.74	0.74	1.01	0.96
(WY)	1990	1996	1996	1991	1996	1990	1996	1990	1989	1989	1992	1992

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1988 - 2003

ANNUAL TOTAL	1754.11	3645.7	
ANNUAL MEAN	4.81	9.99	6.51
HIGHEST ANNUAL MEAN			12.4
LOWEST ANNUAL MEAN			1.44
HIGHEST DAILY MEAN	86	Dec 1	362
LOWEST DAILY MEAN	0.21	Mar 2	1.4
ANNUAL SEVEN-DAY MINIMUM	2.5	Jan 1	1.7
MAXIMUM PEAK FLOW			1640
MAXIMUM PEAK STAGE			11.52
INSTANTANEOUS LOW FLOW			8100
ANNUAL RUNOFF (AC-FT)	3480	7230	4720
10 PERCENT EXCEEDS	6.1	6.8	6.0
50 PERCENT EXCEEDS	4.0	4.2	2.0
90 PERCENT EXCEEDS	3.0	2.2	0.70

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419659 SLOAN CHANNEL TRIBUTARY AT LAS VEGAS BOULEVARD NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°13'46", long 115°04'45", in SE 1/4 NW 1/4 sec.08, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Las Vegas Boulevard, 0.25 mi east of Lamb Boulevard, and 3.2 mi northeast of North Las Vegas.

DRAINAGE AREA.--17.51 mi².

PERIOD OF RECORD.--January 1988 to current year.

REVISED RECORDS.--WDR NV-98-1: 1994(M).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,850.03 ft above NAVD88.

REMARKS.--Records good. See schematic diagram of Colorado River Basin. Records prior to 1994 water year were not published but are available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft³/s, September 11, 1998, gage height, 15.34 ft; no flow most days, most years. Maximum daily precipitation, 1.92 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s, February 28, gage height 10.60 ft; no flow most days. Maximum daily precipitation, 0.68 inches, February 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	e0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	4.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	4.73	0.00	0.61	0.00	0.00	2.80	0.68	0.00
MEAN	0.000	0.000	0.000	0.000	0.17	0.000	0.020	0.000	0.000	0.090	0.022	0.000
MAX	0.00	0.00	0.00	0.00	4.7	0.00	0.35	0.00	0.00	2.8	0.68	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	9.4	0.00	1.2	0.00	0.00	5.6	1.3	0.00
†	0.28	0.16	0.04	0.04	2.28	0.56	0.48	0.00	0.00	0.28	0.36	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	0.007	0.001	0.017	0.016	0.18	0.14	0.001	0.012	0.010	0.085	0.093	0.16				
MAX	0.097	0.013	0.23	0.14	0.80	1.30	0.020	0.19	0.11	1.05	0.67	2.22				
(WY)	1993	1997	1992	1995	1998	1992	2003	1989	1990	1999	1997	1998				
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
(WY)	1989	1989	1989	1989	1988	1988	1988	1988	1988	1988	1988	1988				

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003	
ANNUAL TOTAL	0.00		8.82			
ANNUAL MEAN	0.000		0.024		0.063	
HIGHEST ANNUAL MEAN					0.26	1998
LOWEST ANNUAL MEAN					0.000	1996
HIGHEST DAILY MEAN	0.00	Jan 1	4.7	Feb 28	65	Sep 11 1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jan 26 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jan 26 1988
MAXIMUM PEAK FLOW			40		Feb 28	
MAXIMUM PEAK STAGE			10.60		Feb 28	
ANNUAL RUNOFF (AC-FT)	0.00		17		46	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419665 SLOAN CHANNEL AT CHARLESTON BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°09'35", long 115°02'40", in SE 1/4 SE 1/4 sec.33, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on upstream side of box culvert on Charleston Boulevard, and 1.0 mi east of Nellis Boulevard.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair above 10 ft³/s, and poor below. Prior to May 24, 2001 flows below 50 ft³/s not recorded by gage. After May 24, 2001 all flows recorded by gage. Estimated daily discharges during periods of base flow are only an indication of some small amount of flow at site. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft³/s, September 11, 1998, gage height, 11.41 ft; no flow at times, most years. Maximum daily precipitation, 1.72 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s, February 12, gage height, 10.69 ft; minimum daily, 0.04 ft³/s, July 6, 28. Maximum daily precipitation, 0.68 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	0.24	0.31	0.63	0.48	0.90	0.68	0.31	0.22	0.13	e0.05	0.12
2	4.7	0.28	0.33	0.68	0.46	0.26	0.89	0.32	0.20	0.12	e0.05	2.6
3	0.13	0.25	0.27	0.67	0.48	0.30	1.0	0.34	0.21	0.12	e0.05	e0.05
4	0.12	0.25	0.29	0.71	0.49	0.34	1.1	0.42	0.21	0.06	e0.05	0.05
5	0.11	0.25	0.30	0.72	0.48	0.26	0.95	0.58	0.20	0.05	e0.05	0.05
6	0.10	0.26	0.30	0.57	0.41	0.25	1.0	0.51	0.22	0.04	e0.05	0.05
7	0.11	0.30	0.30	0.64	0.28	0.26	0.97	0.46	0.12	0.21	e0.05	0.06
8	0.12	0.32	0.45	1.2	0.32	0.24	0.97	0.61	0.12	0.31	e0.05	0.08
9	0.19	0.33	0.48	0.58	0.32	0.24	0.91	0.68	0.17	0.44	e0.05	0.09
10	0.20	0.38	0.48	0.64	0.28	0.25	1.1	0.66	0.37	0.41	e0.05	0.06
11	0.24	0.22	0.52	0.67	0.21	0.27	1.1	0.57	0.42	0.41	e0.05	0.05
12	0.20	0.15	0.45	0.70	22	0.29	1.0	0.54	0.21	0.99	e0.05	0.07
13	0.19	0.16	0.47	0.66	12	0.30	1.1	0.53	0.19	1.4	0.05	0.10
14	0.16	0.20	0.74	0.66	0.20	0.33	7.9	0.59	0.21	1.0	0.07	0.12
15	0.16	0.20	0.91	0.66	0.19	0.63	13	0.52	0.55	0.29	0.40	0.12
16	0.12	0.20	0.66	0.69	0.20	5.0	0.23	0.49	0.58	0.28	8.3	0.26
17	0.28	0.21	0.71	0.69	0.19	16	0.24	0.50	0.48	1.9	e0.05	0.17
18	0.42	0.21	0.65	0.73	0.17	1.0	0.23	0.42	0.22	1.4	e0.05	0.18
19	0.40	0.21	0.66	0.66	0.19	0.32	0.20	0.40	0.16	20	0.05	0.16
20	0.40	0.19	0.64	0.65	0.18	0.38	0.21	0.38	0.15	e0.05	0.06	0.13
21	0.41	0.21	0.65	0.67	0.19	0.47	0.21	0.32	0.13	e0.05	0.06	0.12
22	0.54	0.20	0.61	0.60	0.17	0.40	0.26	0.28	0.11	e0.05	0.06	0.13
23	0.50	0.34	0.63	0.53	0.20	0.42	0.20	0.32	0.16	e0.05	0.06	0.13
24	0.55	0.35	0.62	0.48	0.21	0.43	0.26	0.31	0.21	e0.05	0.05	0.12
25	0.46	0.22	0.63	0.45	16	0.42	0.32	0.33	0.87	e0.05	0.11	0.13
26	7.6	0.23	0.64	0.45	34	0.52	0.25	0.32	0.35	e0.05	0.41	0.17
27	2.3	0.36	0.65	0.45	0.37	0.62	0.29	0.32	0.18	0.05	0.38	0.12
28	0.25	0.26	0.63	0.46	58	0.65	0.32	0.28	0.09	0.04	0.20	0.12
29	0.33	0.29	0.63	0.45	---	0.66	0.31	0.25	0.15	0.05	0.10	0.12
30	0.28	5.6	0.63	0.45	---	0.65	0.31	0.30	0.16	e0.05	0.09	0.12
31	0.21	---	0.64	0.45	---	0.66	---	0.30	---	4.5	0.10	---
TOTAL	24.88	12.87	16.88	19.25	148.67	33.72	37.51	13.16	7.62	34.60	11.25	5.85
MEAN	0.80	0.43	0.54	0.62	5.31	1.09	1.25	0.42	0.25	1.12	0.36	0.20
MAX	7.6	5.6	0.91	1.2	58	16	13	0.68	0.87	20	8.3	2.6
MIN	0.10	0.15	0.27	0.45	0.17	0.24	0.20	0.25	0.09	0.04	0.05	0.05
AC-FT	49	26	33	38	295	67	74	26	15	69	22	12
†	0.40	0.16	0.00	0.04	2.36	0.52	0.56	0.00	0.00	0.48	0.12	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	0.29	0.17	0.095	0.26	1.54	0.33	0.10	0.085	0.25	0.53	0.51	0.57				
MAX	2.39	1.15	0.54	1.97	5.31	2.73	1.25	0.42	1.43	2.43	2.58	7.59				
(WY)	1993	1992	2003	1992	2003	1992	2003	2003	1990	1998	1997	1998				
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
(WY)	1989	1989	1989	1990	1989	1988	1988	1988	1988	1988	1990	1988				

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1988 - 2003

ANNUAL TOTAL	113.39	366.26	
ANNUAL MEAN	0.31	1.00	0.40
HIGHEST ANNUAL MEAN			1.46 1998
LOWEST ANNUAL MEAN			0.000 1996
HIGHEST DAILY MEAN	9.8 Sep 11	58 Feb 28	208 Sep 11 1998
LOWEST DAILY MEAN	0.01 Jul 12	0.04 Jul 6	0.00 Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	0.04 Jul 24	0.05 Jul 22	0.00 Mar 1 1988
MAXIMUM PEAK FLOW		245 Feb 12	1230 Sep 11 1998
MAXIMUM PEAK STAGE		10.69 Feb 12	11.72 Aug 9 1997
ANNUAL RUNOFF (AC-FT)	225	726	290
10 PERCENT EXCEEDS	0.41	0.91	0.25
50 PERCENT EXCEEDS	0.22	0.30	0.00
90 PERCENT EXCEEDS	0.10	0.06	0.00

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419674 FLAMINGO WASH AT DECATUR BOULEVARD AT LAS VEGAS, NV

LOCATION.--Lat 36°06'10", long 115°12'25", in SE 1/4 SE 1/4 sec.24, T.21 S., R.60 E., Clark County, Hydrologic Unit 15010015, on upstream middle concrete box culvert on Decatur Boulevard, and 0.1 mi north of Tropicana Avenue.

DRAINAGE AREA.--100.57 mi².

PERIOD OF RECORD.--August 1983 to August 1983, October 1990, operated as miscellaneous and partial record site, October 1992 to current year. Records prior to February 1992 not published but are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,233.40 ft above NAVD88.

REMARKS.--No estimated daily discharge. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,760 ft³/s, August 10, 1983, gage height, 21.76 ft; no flow most of time. Maximum daily precipitation, 1.52 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,620 ft³/s, February 13, gage height, 14.32 ft; no flow most days. Maximum daily precipitation, 0.83 inches, February 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.86	0.00	0.00	3.5	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.03	0.00	0.00	3.2	0.00	0.00	0.00	0.00	0.00	0.33
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	106	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.49	0.00	0.69	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	5.0	0.00	0.00	0.00	0.01	4.0	0.00
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	2.4	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00
20	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.68	0.00
21	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	9.6	0.00	0.00	0.00	0.00	0.44	0.00	0.00
26	1.2	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	1.1	0.00
27	1.6	0.00	0.00	0.00	3.9	0.00	0.00	0.00	0.00	0.00	0.14	0.00
28	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	1.8	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	1.2	0.00	---
TOTAL	2.80	1.80	2.00	0.13	162.03	11.91	1.89	0.00	0.00	1.65	13.42	0.56
MEAN	0.090	0.060	0.065	0.004	5.79	0.38	0.063	0.000	0.000	0.053	0.43	0.019
MAX	1.6	1.8	0.86	0.13	106	5.0	1.2	0.00	0.00	1.2	5.1	0.33
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	5.6	3.6	4.0	0.3	321	24	3.7	0.00	0.00	3.3	27	1.1
†	0.16	0.12	0.02	0.02	2.47	0.24	0.27	0.00	0.00	0.33	0.48	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	0.17	0.23	0.26	0.72	2.47	0.88	0.19	0.024	0.054	1.29	0.51	0.85
MAX	0.77	2.02	1.61	5.33	7.74	7.90	2.13	0.23	0.27	11.8	1.97	6.49
(WY)	2001	1997	1995	1995	1993	1992	1999	1992	1999	1999	1997	1997
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1994	1993	1994	1994	1995	1993	1992	1993	1993	1992	1992	1992

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1992 - 2003

ANNUAL TOTAL	29.26	198.19		
ANNUAL MEAN	0.080	0.54	0.58	
HIGHEST ANNUAL MEAN			1.29	1999
LOWEST ANNUAL MEAN			0.070	1996
HIGHEST DAILY MEAN	9.5	Sep 11	331	Jul 8 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Feb 1 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Feb 20 1992
MAXIMUM PEAK FLOW			1620	Feb 13
MAXIMUM PEAK STAGE			14.32	Feb 13
ANNUAL RUNOFF (AC-FT)	58		422	
10 PERCENT EXCEEDS	0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

† Precipitation total, in inches

LAS VEGAS VALLEY

094196781 FLAMINGO WASH AT NELLIS BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'32", long 115°03'55" (revised), in NE 1/4 NE 1/4 sec.8, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on west side of concrete box culvert on Nellis Boulevard, and 0.25 mi north of Sahara Avenue.

DRAINAGE AREA.--215 mi².

PERIOD OF RECORD.--March 1988 to current year. Water year 1988-89 not published but are available in files of the U.S. Geological Survey. Computations of 1988 water year did not include daily base flow.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

REVISIONS.--WDR NV-96-1: 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,600 ft³/s, July 8, 1999, gage height, 15.43 ft, on basis of slope-area measurement of peak flow; maximum gage height, 15.90 ft, June 10, 1990; minimum daily, 1.4 ft³/s, November 3, 1991 and May 12, 1998. Maximum daily precipitation, 1.52 inches, June 10, 1990 and February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft³/s, August 16, gage height, 12.92 ft; minimum daily, 5.2 ft³/s, December 25 to January 7. Maximum daily precipitation, 0.72 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13	15	32	5.2	6.3	14	11	e10	9.0	e9.0	6.6	6.5
2	15	15	15	5.2	6.2	10	11	e10	9.0	9.0	6.6	120
3	15	11	8.3	5.2	6.2	8.3	11	e10	9.0	9.0	6.5	7.7
4	15	11	8.8	5.2	6.1	8.3	11	e10	9.0	9.0	6.7	7.0
5	15	11	8.1	5.2	6.1	8.3	11	e10	9.0	9.0	6.5	7.0
6	15	11	8.1	5.2	6.1	8.3	11	e10	9.0	9.0	6.4	7.0
7	15	11	8.5	5.2	6.1	8.3	11	e10	9.0	8.9	6.6	e7.0
8	15	11	9.6	5.4	6.1	8.3	12	e10	8.9	8.9	6.6	e7.0
9	15	11	9.9	5.6	6.1	8.3	15	e10	8.3	8.9	6.6	e7.0
10	15	11	10	5.6	6.1	8.3	15	e10	8.3	8.9	6.7	e6.5
11	15	11	10	5.7	6.1	8.3	16	e10	8.3	9.0	6.9	6.7
12	13	11	11	5.6	113	7.9	20	e10	8.3	9.3	6.7	6.8
13	11	11	8.6	5.6	18	6.8	21	e10	8.3	9.0	6.5	e6.8
14	11	10	7.0	5.6	16	6.1	59	e10	8.3	9.0	6.7	e6.8
15	11	10	7.2	5.6	15	11	66	e10	8.3	9.0	7.1	e6.8
16	11	10	7.6	5.6	15	50	11	e10	8.3	12	59	e6.8
17	11	10	7.3	5.6	15	17	10	e10	8.3	10	e6.0	6.8
18	11	10	7.0	5.6	15	14	10	e10	9.0	10	74	6.9
19	11	10	5.7	5.6	13	14	10	e10	9.0	28	318	7.1
20	11	10	5.6	5.6	11	15	10	e10	9.0	7.1	58	7.1
21	11	10	5.6	5.6	11	15	9.7	e10	9.1	6.8	6.2	7.0
22	11	10	5.6	5.6	11	14	9.6	e10	9.0	6.5	5.7	7.1
23	10	11	5.6	5.6	11	11	10	e10	9.0	6.5	5.7	7.0
24	10	11	5.4	5.6	11	11	10	e10	8.8	32	5.7	6.9
25	10	11	5.2	5.6	84	11	11	10	9.0	15	6.0	6.8
26	20	11	5.2	5.7	98	11	e10	10	e9.0	6.6	12	6.6
27	38	11	5.2	5.6	13	11	e10	10	e9.0	6.2	9.2	6.5
28	17	11	5.2	6.0	101	11	e10	9.9	e9.0	6.1	7.0	6.4
29	16	11	5.2	6.2	---	11	e10	9.4	e9.0	6.2	6.8	6.4
30	15	35	5.2	6.2	---	11	e10	9.1	e9.0	6.3	6.5	6.4
31	15	---	5.2	6.2	---	11	---	9.2	---	83	6.5	---
TOTAL	437	353	253.9	173.0	638.5	368.5	452.3	307.6	263.5	383.2	692.0	318.4
MEAN	14.1	11.8	8.19	5.58	22.8	11.9	15.1	9.92	8.78	12.4	22.3	10.6
MAX	38	35	32	6.2	113	50	66	10	9.1	83	318	120
MIN	10	10	5.2	5.2	6.1	6.1	9.6	9.1	8.3	6.1	5.7	6.4
AC-FT	867	700	504	343	1270	731	897	610	523	760	1370	632
†	0.32	0.16	0.00	0.04	2.24	0.36	0.60	0.00	0.00	0.32	0.16	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	8.22	7.90	8.54	9.85	14.0	9.45	6.94	6.21	6.34	11.6	8.60	9.35				
MAX	15.2	11.8	21.1	40.1	35.9	38.7	15.1	9.92	12.7	56.2	22.3	29.4				
(WY)	2001	2003	1995	1995	1998	1992	2003	2003	1990	1999	2003	1997				
MIN	3.56	4.58	4.30	3.90	3.43	0.000	0.80	0.000	0.000	0.000	0.68	0.000				
(WY)	1992	1990	1991	1999	1999	1988	1988	1988	1988	1988	1988	1988				

SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003	
ANNUAL TOTAL	3227.5		4640.9			
ANNUAL MEAN	8.84		12.7		9.21	
HIGHEST ANNUAL MEAN					12.7	
LOWEST ANNUAL MEAN					5.57	
HIGHEST DAILY MEAN	38	Oct 27	318	Aug 19	613	Jul 8 1999
LOWEST DAILY MEAN	5.2	Dec 25	5.2	Dec 25	0.00	Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	5.2	Dec 25	5.2	Dec 25	0.00	Mar 1 1988
MAXIMUM PEAK FLOW			1520		5600	
MAXIMUM PEAK STAGE			11.66		15.90	
ANNUAL RUNOFF (AC-FT)	6400		9210		6680	
10 PERCENT EXCEEDS	11		15		10	
50 PERCENT EXCEEDS	8.3		9.0		6.6	
90 PERCENT EXCEEDS	6.2		5.6		4.0	

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'23", long 115°02'49", in SE 1/4 NE 1/4 sec.09, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, about 300 ft downstream from Flamingo Wash Confluence, 0.2 mi north of Vegas Valley Drive, and 0.3 mi south of Sahara Ave.

DRAINAGE AREA.--1,352 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,710 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s, July 8, 1999, gage height, 31.00 ft; minimum daily, 4.7 ft³/s, May 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,590 ft³/s, February 26, gage height, 22.18 ft; minimum daily, 6.4 ft³/s, July 13. Maximum daily precipitation, 0.34 inches, February 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.8	108	10	10	25	11	11	10	8.2	18	11
2	12	7.0	12	11	11	18	11	11	9.8	8.4	10	111
3	12	7.2	12	11	9.9	12	11	11	10	7.2	8.9	13
4	8.7	8.1	12	11	9.2	12	10	11	10	6.7	9.2	23
5	8.9	7.6	11	11	8.7	12	10	11	11	6.9	9.4	25
6	8.9	7.6	10	11	8.6	12	10	12	11	6.8	9.2	11
7	9.5	8.9	9.9	11	9.8	12	11	11	11	6.7	9.1	11
8	10	10	10	14	9.9	11	12	12	11	7.1	9.4	10
9	10	8.1	10	12	9.4	11	12	11	10	6.8	9.8	9.8
10	9.7	7.9	10	11	9.5	11	10	11	10	7.0	10	9.8
11	9.2	8.5	11	11	9.8	11	10	10	11	6.9	10	9.5
12	9.5	9.1	10	11	381	11	9.6	10	11	6.9	10	10
13	9.5	9.4	9.5	11	289	12	8.9	9.8	11	6.4	10	9.3
14	10	9.7	9.0	12	12	11	43	11	11	6.8	11	8.9
15	9.5	10	8.7	12	10	15	232	10	10	6.9	11	9.0
16	9.8	9.8	8.9	11	9.6	80	14	11	10	10	117	8.9
17	11	11	8.8	11	10	26	12	11	10	12	106	9.2
18	10	10	8.9	10	10	16	12	11	10	8.3	12	9.0
19	9.9	11	8.6	9.7	9.8	11	18	11	10	116	321	8.7
20	9.8	10	9.2	9.8	12	11	12	11	9.9	10	416	8.3
21	9.9	10	9.6	9.7	9.9	11	12	10	9.7	8.1	54	8.0
22	9.6	10	12	9.3	11	11	13	11	9.0	7.8	13	7.5
23	9.3	11	9.8	9.5	11	10	13	11	8.5	7.8	12	8.8
24	9.3	10	9.8	9.2	13	11	11	11	8.6	39	11	7.7
25	8.8	9.4	9.8	8.7	215	11	12	9.7	9.2	41	11	7.2
26	29	9.9	9.8	8.7	565	12	14	9.5	10	16	32	7.9
27	48	10	9.9	8.6	32	12	12	9.8	10	9.4	35	9.6
28	11	10	10	8.8	262	12	12	9.8	10	9.4	14	8.3
29	7.9	10	10	8.9	---	11	12	11	8.4	9.3	11	7.7
30	7.9	46	10	9.5	---	11	12	10	8.0	9.6	11	7.9
31	8.5	---	10	9.5	---	12	---	10	---	147	11	---
TOTAL	355.0	315.0	408.2	321.9	1968.1	464	602.5	330.6	299.1	566.4	1342.0	406.0
MEAN	11.5	10.5	13.2	10.4	70.3	15.0	20.1	10.7	9.97	18.3	43.3	13.5
MAX	48	46	108	14	565	80	232	12	11	147	416	111
MIN	7.9	7.0	8.6	8.6	8.6	10	8.9	9.5	8.0	6.4	8.9	7.2
AC-FT	704	625	810	638	3900	920	1200	656	593	1120	2660	805
†	0.35	0.16	0.00	0.00	1.13	0.34	0.07	0.02	0.00	0.11	0.00	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	13.1	13.5	10.6	12.0	49.5	16.3	13.1	9.67	10.6	30.4	23.2	28.0
MAX	23.9	30.0	13.2	25.3	116	37.5	22.7	10.8	12.3	111	43.3	73.0
(WY)	2001	1997	2003	2001	1998	1998	1999	2000	2000	1999	2003	1997
MIN	9.34	9.85	5.94	7.18	7.60	8.00	7.68	6.33	8.27	10.7	9.62	9.48
(WY)	1998	1999	1998	1998	1997	1997	1997	1997	1997	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1997 - 2003

ANNUAL TOTAL	3840.7	7378.8		
ANNUAL MEAN	10.5	20.2	19.1	
HIGHEST ANNUAL MEAN			27.2	1998
LOWEST ANNUAL MEAN			10.6	2002
HIGHEST DAILY MEAN	108	Dec 1	565	Feb 26
LOWEST DAILY MEAN	6.0	Sep 4	6.4	Jul 13
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 31	6.8	Jul 9
MAXIMUM PEAK FLOW			2590	Feb 26
MAXIMUM PEAK STAGE			22.18	Feb 26
ANNUAL RUNOFF (AC-FT)	7620		14640	
10 PERCENT EXCEEDS	11		14	15
50 PERCENT EXCEEDS	10		10	10
90 PERCENT EXCEEDS	7.9		8.3	8.3

† Precipitation total, in inches

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to current year.

REMARKS.--In January 1997 an automatic sampler was re-installed and used to collect water-quality data as part of the National Pollution Discharge Elimination System (NPDES) monitoring network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unfltrd, uS/cm (00095)	^a 2,4,5-T surrog, water, fltrd, percent recovry (99958)	2,4,5-T water, fltrd, ug/L (39742)	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)	2,6-Di-ethyl- aniline water, fltrd, 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	
FEB														
12...	1945	2210	--	830	--	<.25	--	<3.50	<.25	<.006	<.006	--	--	
25...	1530	337	--	885	--	<.37	--	<.73	<.25	<.006	<.010	--	--	
JUL														
19...	1000	369	7.4	1340	.0	--	<.009	E.07	<.02	<.006	<.006	<.04	E.087	
31...	1745	387	7.6	785	.0	--	<.009	E.29	<.02	<.006	<.006	<.04	<.008	
AUG														
19...	2124	344	--	--	--	--	--	--	--	<.006	<.006	--	--	
Date		2Methyl 4,6-di-nitro-phenol, wat flt 0.7u GF ug/L (49299)	3-Hydroxy furan, wat flt 0.7u GF ug/L (49308)	3-Keto-carbo-furan, water, fltrd, ug/L (50295)	Aceto-chlor, water, fltrd, ug/L (49260)	Aci-fluor-fen, water, fltrd, 0.7u GF ug/L (49315)	Ala-chlor, water, fltrd, ug/L (46342)	Aldi-carb sulfone, water, fltrd, 0.7u GF ug/L (49313)	Aldi-carb sulf-oxide, wat flt 0.7u GF ug/L (49314)	Aldi-carb, water, fltrd, 0.7u GF ug/L (49312)	^a alpha-HCH-d6, surrog, wat flt 0.7u GF recovery (91065)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	
FEB														
12...	<.25	<19.0	--	<.006	<.05	<.004	<1.80	<6.80	<7.30	<.005	109	<.010	<.050	
25...	<.25	<7.40	--	<.006	<.08	<.040	<2.10	<2.60	<11.0	<.005	84.5	<.010	<.050	
JUL														
19...	--	E.019	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	86.8	<.007	<.050	
31...	--	<.006	<2	<.006	<.007	<.030	<.02	<.008	<.04	<.005	97.3	<.007	<.050	
AUG														
19...	--	--	--	<.006	--	<.004	--	--	--	<.005	75.3	<.007	<.050	
Date		^a Barban, surrog, Sched. 2060/9060, wat flt pct rcv (90640)	^a BDMC, surrog, water, unfltrd percent recovry (99835)	Ben-dio-carb, water, fltrd, ug/L (50299)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Ben-sul-furon, water, fltrd, ug/L (50300)	Ben-tazon, water, fltrd, 0.7u GF ug/L (61693)	Broma-cil, water, fltrd, ug/L (38711)	Brom-oxynil, water, fltrd, 0.7u GF ug/L (04029)	Butyl-ate, water, fltrd, ug/L (49311)	Caf-feine, water, wat flt percent recovry (50305)	Caf-13C, surrog, wat flt percent recovry (99959)	Car-baryl, water, fltrd, 0.7u GF ug/L (49310)	
FEB														
12...	--	E90.0	--	<.010	--	--	<.09	<2.50	<.07	<.002	--	--	<.500	
25...	--	E17.7	--	<.010	--	--	<.05	<1.90	<.16	<.002	--	--	<.130	
JUL														
19...	.0	--	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E11.5	.0	<.03	
31...	.0	--	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E3.10	96.4	<.03	
AUG														
19...	--	--	--	<.010	--	--	--	--	--	<.002	--	--	--	
Date		Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Chloro-thalo-nil, water, fltrd, 0.7u GF ug/L (49306)	Chlor-pyri-fos, water, fltrd, ug/L (38933)	cis-Per-methrin, water, fltrd, 0.7u GF ug/L (82687)	Clopyr-alid, water, fltrd, 0.7u GF ug/L (49305)	Cyana-zine, water, fltrd, ug/L (04041)	Cyclo-ate, water, fltrd, ug/L (04031)	Dacthal mono-acid, water, fltrd, 0.7u GF ug/L (49304)
FEB														
12...	E.142	<1.00	<.100	<.21	--	--	<.25	<.060	<.006	<2.30	<.018	--	<.11	
25...	E.052	<.53	<.050	<.21	--	--	<.25	<.005	<.006	<.42	<.018	--	<.08	
JUL														
19...	E.108	E.046	<.350	<.02	<.010	E.03	<.04	<.005	<.006	<.01	<.018	<.01	<.01	
31...	E.199	<.006	<.020	<.02	<.010	<.01	<.04	.084	<.006	<.01	<.018	<.01	<.01	
AUG														
19...	E.208	--	<.020	--	--	--	--	<.005	<.006	--	<.018	--	--	

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	^a Diazi- non-d10 surrog. wat flt 0.7u GF percent ug/L (91063)	Dicamba water fltrd 0.7u GF ug/L (38442)	Dichlo- benil, water, fltrd 0.7u GF ug/L (49303)	Di- chlor- prop, water, fltrd 0.7u GF ug/L (49302)	Diel- drin, water, fltrd, ug/L (39381)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphen- amid, water, fltrd, ug/L (04033)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	Diuron, water, fltrd 0.7u GF ug/L (49300)	EPTC, water, fltrd 0.7u GF ug/L (82668)
FEB													
12...	<.003	<.004	.088	126	<.11	<1.50	<.12	<.005	<.15	--	<.02	37.0	<.002
25...	<.003	<.004	.062	109	<.11	<.62	<.12	<.005	<.09	--	<.02	E4.90	<.002
JUL													
19...	.004	<.004	<.120	108	<.01	--	<.01	<.005	<.01	<.03	<.02	E2.26	<.002
31...	.004	<.004	<.005	127	<.01	--	<.01	<.005	<.01	<.03	<.02	E1.93	<.002
AUG													
19...	.003	.007	.066	106	--	--	--	<.005	--	--	<.02	--	<.002
Date	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenuron water, fltrd 0.7u GF ug/L (49297)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flumet- sulam, water, fltrd, ug/L (61694)	Fluo- meturon water fltrd 0.7u GF ug/L (38811)	Ponofos water, fltrd, ug/L (04095)	Imaza- quin, water, fltrd, ug/L (50356)	Imaze- thapyr, water, fltrd, ug/L (50407)	Imida- clopid water, fltrd, ug/L (61695)
FEB													
12...	<.009	<.005	<1.20	<.009	<.005	<.005	<.007	--	<.77	<.003	--	--	--
25...	<.009	<.005	<1.10	<.009	<.005	<.005	<.007	--	<.75	<.003	--	--	--
JUL													
19...	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01	<.03	<.003	E3.78	<.02	<.007
31...	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01	<.03	<.003	E18.2	<.02	<.007
AUG													
19...	<.009	<.005	--	<.009	<.005	<.005	E.013	--	--	<.003	--	--	--
Date	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (38478)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- thion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta- laxyl, water, fltrd, ug/L (50359)	Methio- carb, water, fltrd 0.7u GF ug/L (38501)	Meth- omyl, water, fltrd 0.7u GF ug/L (49296)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Metsul- furon, water, fltrd, ug/L (61697)
FEB													
12...	<.010	<.18	<.035	.206	<.20	<.26	--	<.66	<.22	<.006	<.013	<.006	--
25...	<.004	<.49	<.035	.135	<.21	<.26	--	<.44	<.72	<.006	<.013	<.006	--
JUL													
19...	<.004	<.01	<.035	E.095	<.02	<.01	<.02	<.008	<.004	<.006	<.013	<.006	E39.1
31...	<.004	<.01	<.035	.120	<.02	<.01	<.02	<.008	<.004	<.006	<.013	<.006	E16.2
AUG													
19...	<.004	--	<.035	.105	--	--	--	--	--	<.006	<.013	<.006	--
Date	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	N-(4- Chloro- phenyl)- N'- methyl- urea, ug/L (61692)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur- azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)
FEB													
12...	<.002	--	<.007	<.59	--	<2.00	<.29	<1.70	<.003	<.010	<.004	<.022	<.011
25...	<.002	--	<.007	<.55	--	<1.00	<.28	<.72	<.003	<.010	<.004	<.022	<.011
JUL													
19...	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01	<.003	<.010	<.004	<.022	<.011
31...	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01	<.003	<.010	<.004	<.022	<.011
AUG													
19...	<.002	--	<.007	--	--	--	--	--	<.003	<.010	<.004	<.022	<.011
Date	Pic- loram, water, fltrd 0.7u GF ug/L (49291)	Prome- ton, water, fltrd, ug/L (04037)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Propham water fltrd 0.7u GF ug/L (49236)	Propi- cona- zole, water, fltrd, ug/L (50471)	Pro- poxur, water, fltrd 0.7u GF ug/L (38538)	Siduron water, fltrd, ug/L (38548)	Silvex, water, fltrd, ug/L (39762)	Sima- zine, water, fltrd, ug/L (04035)	Sulfo- met- ruron, water, fltrd, ug/L (50337)
FEB													
12...	<.23	.32	<.004	<.010	<.011	<.02	<.90	--	<1.10	--	<.04	<.020	--
25...	<.45	.07	<.004	<.010	<.011	<.02	<.60	--	<.96	--	<.14	<.020	--
JUL													
19...	<.02	.15	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	--	.035	<.009
31...	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	--	<.005	<.009
AUG													
19...	--	.08	<.004	<.010	<.011	<.02	--	--	--	--	--	.020	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Tebu- thiuron water, fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terba- cil, water, fltrd, ug/L (04032)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- clopyr, water, fltrd 0.7u GF ug/L (49235)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)
FEB								
12...	<.02	<.034	--	<.02	<.005	<.002	<.16	<.009
25...	<.02	<.034	--	<.02	<.005	<.002	<.24	<.009
JUL								
19...	<.02	<.034	E.125	<.02	<.005	<.002	<.02	<.009
31...	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009
AUG								
19...	<.02	<.034	--	<.02	<.005	<.002	--	E.006

Remark codes used in this report:

< -- Less than
E -- Estimated value

^a Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January to September, hourly.

WATER TEMPERATURE: January to September, hourly.

INSTRUMENTATION.--Water-quality monitor January to September 2002, hourly

REMARKS.--In April 1993, station was incorporated into the National Water-Quality Assessment Program (NAWQA) with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources. In January 1997 an automatic sampler was re-installed and used to collect water-quality data as part of the National Pollution Discharge Elimination System (NPDES) monitoring network. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 9,510 microsiemens/cm at 25°C, May 14, 2002; minimum recorded, 1,620 microsiemens/cm at 25°C, July 18, 2002.

WATER TEMPERATURE: Maximum recorded, 36.0°C July 12, 2002; minimum recorded, 4.0°C, January 31, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 6,820 microsiemens/cm at 25°C, October 2; minimum recorded, 263 microsiemens/cm at 25°C, February 26.

WATER TEMPERATURE: Maximum recorded, 35.0°C July 20, 21; minimum recorded, 6.0°C, January 7, 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, units (00400)	Specific conductance, uS/cm at 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Chloride, water, fltrd, mg/L (00940)
OCT 2002													
09...	0930	ENVIRONMENTAL	10	723	8.9	99	8.1	3720	21.0	17.5	--	--	--
24...	0930	ENVIRONMENTAL	11	722	10.0	105	8.2	3680	19.0	14.5	223	279	275
NOV													
14...	0930	ENVIRONMENTAL	9.6	728	10.6	104	8.2	3820	15.0	12.0	--	--	--
26...	0830	ENVIRONMENTAL	10	729	11.0	101	8.2	3660	9.0	9.0	229	279	281
DEC													
16...	1030	ENVIRONMENTAL	9.3	720	10.6	104	8.3	3770	17.0	11.5	--	--	--
30...	1000	ENVIRONMENTAL	10	729	11.5	104	8.3	3830	5.0	8.5	220	268	317
JAN 2003													
15...	0950	FIELD BLANK	--	--	--	--	--	--	--	--	--	--	--
15...	1000	ENVIRONMENTAL	11	731	11.1	100	8.2	3360	9.0	8.5	--	--	--
28...	0940	FIELD BLANK	--	--	--	--	--	--	--	--	--	--	<1.00
28...	0945	ENVIRONMENTAL	8.7	725	10.5	101	8.3	3680	11.0	11.0	213	259	273
28...	0950	SEQUENTIAL REPLICATE	--	--	--	--	--	--	--	--	--	--	274
FEB													
10...	1000	ENVIRONMENTAL	9.7	728	12.1	108	8.4	3720	13.0	8.0	--	--	--
24...	0830	ENVIRONMENTAL	10	717	9.9	101	8.2	3640	20.5	13.0	219	267	288
24...	0845	SEQUENTIAL REPLICATE	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	1000	ENVIRONMENTAL	12	--	--	--	8.4	3680	--	16.0	--	--	--
26...	0945	ENVIRONMENTAL	11	725	11.4	126	8.4	3680	23.0	17.0	216	263	295
APR													
10...	0930	ENVIRONMENTAL	9.8	721	9.1	99	8.1	3660	18.5	16.0	--	--	--
28...	1000	ENVIRONMENTAL	11	720	10.4	112	8.4	3700	24.0	15.5	217	265	276
MAY													
21...	0930	ENVIRONMENTAL	10	724	8.6	101	8.1	3630	21.0	20.0	213	255	272
JUN													
12...	0845	FIELD BLANK	--	--	--	--	--	--	--	--	--	--	--
12...	0850	ENVIRONMENTAL	11	718	8.6	103	8.2	3690	25.0	20.5	219	267	310
12...	0855	SEQUENTIAL REPLICATE	--	--	--	--	--	--	--	--	--	--	--
12...	0900	PESTICIDE SPIKE	--	--	--	--	--	--	--	--	--	--	--
JUL													
02...	0830	ENVIRONMENTAL	8.9	721	8.3	99	8.1	3660	28.0	20.5	213	260	309
AUG													
13...	0800	ENVIRONMENTAL	11	723	7.4	93	8.0	3550	28.5	23.5	200	244	315
SEP													
09...	0900	ENVIRONMENTAL	10	718	8.6	100	8.1	3660	27.0	19.0	210	256	308

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	1,4- Naphth- quin- one, water, fltrd, ug/L (61611)
OCT 2002													
09...	--	.56	.07	4.48	.061	E.01	--	.040	--	--	--	--	<.05
24...	1640	.32	<.04	4.61	.036	<.02	.03	.014	.3	<.1	.3	3.0	<.05
NOV													
14...	--	.30	<.04	5.04	.033	<.02	--	.013	--	--	--	--	<.05
26...	1670	.28	<.04	4.99	.024	<.02	.04	.015	.4	<.1	.4	2.6	<.05
DEC													
16...	--	.32	<.04	4.83	.022	E.01	--	.019	--	--	--	--	<.05
30...	1570	.25	<.04	4.80	.020	<.02	.04	.014	.3	<.1	.3	2.3	<.05
JAN 2003													
15...	--	--	--	--	--	--	<.02	--	<.1	<.1	<.1	E.2	<.05
15...	--	.32	<.04	4.41	.020	<.02	.04	.012	.3	<.1	.3	2.4	<.05
28...	<.9	<.10	<.04	<.06	<.008	<.02	--	<.004	--	--	--	--	--
28...	1650	.29	E.02	4.60	.023	<.02	--	.014	--	--	--	--	<.05
28...	1650	.29	E.03	4.62	.023	<.02	--	.011	--	--	--	--	<.05
FEB													
10...	--	.31	E.02	4.64	.019	<.02	--	.007	--	--	--	--	<.05
24...	1590	.41	E.03	4.59	.029	E.01	.03	.018	.2	<.1	.2	2.6	<.05
24...	--	--	--	--	--	--	.05	--	.4	<.1	.4	2.4	--
MAR													
13...	--	.86	E.03	4.19	.032	<.02	--	.018	--	--	--	--	<.05
26...	1630	.84	E.03	3.95	.052	<.02	.07	.018	.4	<.1	.4	3.0	<.05
APR													
10...	--	1.2	.08	4.48	.063	<.02	--	.012	--	--	--	--	<.05
28...	1650	.47	E.02	4.06	.047	<.02	.05	.013	.3	<.1	.2	3.0	<.05
MAY													
21...	1590	.49	<.04	3.62	.072	<.02	.03	.012	.3	<.1	.3	2.8	<.05
JUN													
12...	--	--	--	--	--	--	--	--	--	--	--	--	<.05
12...	1570	.61	<.04	3.87	.053	<.02	.07	.021	.8	<.1	.8	3.5	<.05
12...	--	--	--	--	--	--	--	--	--	--	--	--	<.05
12...	--	--	--	--	--	--	--	--	--	--	--	--	E.01
JUL													
02...	1580	.49	<.04	3.50	.079	<.02	.05	.021	.5	<.1	.5	3.4	<.05
AUG													
13...	1550	.81	E.03	3.68	.077	<.02	.16	.037	1.5	<.1	1.4	5.7	<.05
SEP													
09...	1600	.80	E.03	4.21	.064	<.02	.12	.029	.7	<.1	.7	3.8	<.05

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	1-Naphthol, water, fltrd 0.7u GF (49295)	2-(4-t-Butylphenoxy)cyclohexanol wat flt ug/L (61637)	2,5-Dichloroaniline water, fltrd, ug/L (61614)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, 1-ol, ug/L (61615)	2Amino-N-isopropylbenzamide, wat flt ug/L (61617)	2Chloro-2',6'-diethylacetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3-(Tri-fluoro-methyl)aniline water, fltrd, ug/L (61630)	3,4-Di-chloro-aniline water, fltrd, ug/L (61625)	3,5-Di-chloro-aniline water, fltrd, ug/L (61627)	3-Phen-oxyl alcohol water, fltrd, ug/L (61629)
OCT 2002													
09...	<.09	<.01	<.03	<.006	--	<.005	<.005	E.008	<.004	<.01	<.004	<.005	--
24...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.011	<.004	<.01	<.004	<.005	<.05
NOV													
14...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.006	<.004	<.01	<.004	<.005	<.05
26...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.008	<.004	<.01	<.004	<.005	<.05
DEC													
16...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.006	<.004	<.01	<.004	<.005	<.05
30...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.005	<.004	<.01	<.004	<.005	<.05
JAN 2003													
15...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	<.006	<.004	<.01	<.004	<.005	<.05
15...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.006	<.004	<.01	.014	<.005	<.05
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.006	<.004	<.01	.006	<.005	<.05
28...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.007	<.004	<.01	.007	<.005	<.05
FEB													
10...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.005	<.004	<.01	.008	<.005	<.05
24...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.007	<.004	<.01	.036	<.005	<.05
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	<.006	<.004	<.01	.024	<.005	<.05
26...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.009	<.004	<.01	.017	<.005	<.05
APR													
10...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.005	<.004	<.01	.072	<.005	--
28...	<.09	<.01	<.03	--	<.1	<.005	<.005	--	<.004	<.01	.023	<.005	<.05
MAY													
21...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	<.006	<.004	<.01	.029	<.005	<.05
JUN													
12...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	<.006	<.004	<.01	<.004	<.005	<.05
12...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.005	<.004	<.01	.015	<.005	<.05
12...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.005	<.004	<.01	.016	<.005	<.05
12...	E.02	.14	.10	.126	.1	E.076	.129	E.070	E.115	E.04	.112	.109	.12
JUL													
02...	<.09	<.01	<.03	.007	<.1	<.005	<.005	<.006	<.004	<.01	.013	<.005	<.05
AUG													
13...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.004	<.004	<.01	.023	<.005	--
SEP													
09...	<.09	<.01	<.03	<.006	<.1	<.005	<.005	E.004	<.004	<.01	.015	<.005	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	4-(MeOH)-methalin, wat flt ug/L (61665)	4,4'-Dichlorobenzo-phenone, wat flt ug/L (61631)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4Chloro methyl sulfone water, fltrd, ug/L (61634)	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto-chlor water, fltrd, ug/L (49260)	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala-chlor water, fltrd, ug/L (46342)	alpha-Endo-sulfan, water, fltrd, ug/L (34362)	alpha-HCH, water, fltrd, ug/L (34253)	^a alpha-HCH-d6, sur2002 /9002, wat unf percent recovry (99224)
OCT 09...	--	<.003	<.006	--	--	--	<.006	--	--	<.004	<.005	<.005	108
OCT 24...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	100
NOV 14...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	103
NOV 26...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	104
DEC 16...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	96.6
DEC 30...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	102
JAN 15...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	106
JAN 15...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	98.3
JAN 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	101
JAN 28...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	95.8
FEB 10...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	99.2
FEB 24...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	95.7
FEB 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	98.3
MAR 26...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	96.4
APR 10...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	90.5
APR 28...	<.1	<.003	<.006	<.03	--	--	--	--	--	--	<.005	--	101
MAY 21...	<.1	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	91.4
JUN 12...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	99.1
JUN 12...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	99.1
JUN 12...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	96.5
JUN 12...	--	E.150	E.075	E.08	--	--	.147	--	--	.138	.086	.131	96.5
JUL 02...	<.1	<.016	<.006	<.03	<.05	<.05	<.006	<.05	<.05	<.004	<.005	<.005	99.1
AUG 13...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	84.7
SEP 09...	--	<.003	<.006	<.03	--	--	<.006	--	--	<.004	<.005	<.005	86.4

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	^a alpha-HCH-d6, surrog, wat flt 0.7u GF percent recovery (91065)	Amino-methyl-phosphonic acid, wat flt ug/L (62649)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	beta-Endo-sulfan, water, fltrd, ug/L (34357)	Bifen-thrin, water, fltrd, ug/L (61580)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)
OCT 2002													
09...	95.6	.6	.007	<.02	<.050	<.010	<.01	<.005	<.002	E.009	<.020	<.06	<.005
24...	107	.2	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
NOV													
14...	101	.4	E.007	<.02	<.050	<.010	<.01	<.005	<.002	E.003	<.020	<.06	<.005
26...	107	.2	.007	<.02	<.050	<.010	<.01	<.005	<.002	E.004	<.020	<.06	<.005
DEC													
16...	101	.3	E.006	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
30...	96.6	.2	E.006	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
JAN 2003													
15...	94.8	<.1	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
15...	87.3	.1	E.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	103	<.1	E.005	<.02	<.050	<.010	<.01	<.005	<.002	E.018	<.020	<.06	<.005
28...	102	<.1	E.005	<.02	<.050	<.010	<.01	<.005	<.002	E.017	<.020	<.06	<.005
FEB													
10...	94.9	.1	E.004	<.12	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
24...	80.3	.3	.008	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	82.8	.3	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
26...	81.0	.3	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
APR													
10...	81.4	.2	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
28...	--	.6	--	<.02	--	--	<.01	<.005	--	--	--	<.06	--
MAY													
21...	115	.3	.009	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
JUN													
12...	83.8	<.1	<.007	<.02	<.050	<.010	<.01	<.005	<.002	<.041	<.020	<.06	<.005
12...	93.1	.4	E.004	<.02	<.050	<.010	<.01	<.005	<.002	E.009	<.020	<.06	<.005
12...	89.4	.4	E.005	<.02	<.050	<.010	<.01	<.005	<.002	E.007	<.020	<.06	<.005
12...	89.8	--	.131	E.07	E.107	.098	E.07	E.036	.145	E.125	E.146	E.06	.119
JUL													
02...	103	<.1	<.007	<.02	<.050	<.010	<.01	<.005	<.002	E.015	<.020	<.02	<.005
AUG													
13...	93.3	.9	E.005	<.02	<.050	<.010	<.01	<.005	<.002	E.009	<.020	<.06	<.005
SEP													
09...	96.5	.9	E.006	<.02	<.050	<.010	<.01	<.005	<.002	E.006	<.020	<.06	<.005

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	cis-Propiconazole, water, fltrd, ug/L (79846)	Cyanazine, water, fltrd, ug/L (04041)	Cycloate, water, fltrd, ug/L (04031)	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin, water, fltrd, ug/L (61586)	DCPA, water, fltrd, ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	^a Diazinon-d10 sur2002 /9002, wat unf percent recovry (99223)	^a Diazinon-d10 surrog. wat flt 0.7u GF percent recovry (91063)	Dicrotophos, water fltrd, ug/L (38454)
OCT 2002													
09...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.010	94.7	120	<.08
24...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.009	103	124	<.08
NOV													
14...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.006	116	107	<.08
26...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	E.023	113	109	<.08
DEC													
16...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	E.009	124	108	<.08
30...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.005	112	120	<.08
JAN 2003													
15...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.005	99.1	103	<.08
15...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.010	100	103	<.08
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.005	109	112	<.08
28...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.006	111	110	<.08
FEB													
10...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	E.005	110	108	<.08
24...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.010	107	100	<.08
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.005	110	110	<.08
26...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.058	110	127	<.08
APR													
10...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.113	86.2	108	<.08
28...	--	<.008	--	<.005	<.008	<.009	<.009	--	--	--	101	--	<.08
MAY													
21...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	E.004	.016	88.8	109	<.08
JUN													
12...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	<.005	93.9	106	<.08
12...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.008	93.8	111	<.08
12...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.007	97.4	106	<.08
12...	.068	.043	.144	.115	E.072	E.030	E.060	.111	<.004	.154	102	108	E.02
JUL													
02...	<.006	<.008	<.018	<.005	<.016	<.009	<.016	<.003	<.004	E.026	106	105	<.08
AUG													
13...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.013	104	96.6	<.08
SEP													
09...	<.006	<.008	<.018	<.005	<.008	<.009	<.009	<.003	<.004	.015	96.6	119	<.08

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Diel- drin, water, fltrd, ug/L (39381)	Dimeth- enamid ESA, water, fltrd, ug/L (61951)	Dimeth- enamid OA, water, fltrd, ug/L (62482)	Dimeth- oate, water, fltrd 0.7u GF ug/L (82662)	Disulf- oton sulfone water, fltrd, ug/L (61640)	Disulf- oton sulf- oxide, water, fltrd, ug/L (61641)	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	e-Di- metho- morph, water, fltrd, ug/L (79844)	Endo- sulfan ether, water, fltrd, ug/L (61642)	Endo- sulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)
OCT 2002													
09...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
24...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
NOV													
14...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
26...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
DEC													
16...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
30...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
JAN 2003													
15...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
15...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
28...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
FEB													
10...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
24...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
26...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
APR													
10...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
28...	--	--	--	<.006	<.02	<.002	--	<.02	<.004	<.006	--	--	<.03
MAY													
21...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
JUN													
12...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
12...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
12...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
12...	.132	--	--	E.039	.10	E.139	.06	.12	.118	.117	.105	.112	E.10
JUL													
02...	<.005	<.05	<.05	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
AUG													
13...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03
SEP													
09...	<.005	--	--	<.006	<.02	<.002	<.02	<.02	<.004	<.006	<.002	<.009	<.03

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ethion, water, fltrd, ug/L (82346)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Fenami- phos sulfone water, fltrd, ug/L (61645)	Fenami- phos sulf- oxide, water, fltrd, ug/L (61646)	Fenami- phos, water, fltrd, ug/L (61591)	Fen- thion sulf- oxide, water, fltrd, ug/L (61647)	Fen- thion, water, fltrd, ug/L (38801)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flufen- acet ESA, water, fltrd, ug/L (61952)	Flufe- nacet OA, water, fltrd, ug/L (62483)
OCT 2002													
09...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
24...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
NOV													
14...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
26...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
DEC													
16...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
30...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
JAN 2003													
15...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
15...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
28...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
FEB													
10...	<.004	<.005	<.008	--	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
24...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
26...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
APR													
10...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
28...	<.004	--	<.008	<.03	<.03	<.008	<.02	--	--	--	--	--	--
MAY													
21...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
JUN													
12...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
12...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
12...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
12...	.103	.110	.123	E.04	.12	E.126	.12	<.009	<.005	<.005	<.007	--	--
JUL													
02...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	<.05	<.05
AUG													
13...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	<.009	<.005	<.005	<.007	--	--
SEP													
09...	<.004	<.005	<.008	<.03	<.03	<.008	<.02	E.005	<.005	<.005	<.007	--	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Flume- tralin, water, fltrd, ug/L (61592)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufo- sinate, water, fltrd 0.7u GF (62721)	Glypho- sate, water, fltrd 0.7u GF (62722)	Hexa- zinone, water, fltrd, ug/L (04025)	Ipro- dione, water, fltrd, ug/L (61593)	Isofen- phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF (82666)	Mala- oxon, water, fltrd, ug/L (61652)	Mala- thion, water, fltrd, ug/L (39532)	Meta- laxyl, water, fltrd, ug/L (61596)
OCT 2002													
09...	<.004	<.002	<.003	<.1	.8	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
24...	<.004	<.002	<.003	<.1	.7	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
NOV													
14...	<.004	<.002	<.003	<.1	.5	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
26...	<.004	<.002	<.003	<.1	.5	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
DEC													
16...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
30...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
JAN 2003													
15...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
15...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
28...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
FEB													
10...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
24...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.004	<.002	<.003	<.1	.6	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
26...	<.004	<.002	<.003	<.1	.8	<.013	<1	<.003	<.004	<.035	<.008	E.016	<.005
APR													
10...	<.004	<.002	<.003	<.1	.6	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
28...	<.004	<.002	--	<.1	<.1	<.013	<1	<.003	--	--	<.008	--	<.005
MAY													
21...	<.004	<.002	<.003	<.1	.3	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
JUN													
12...	<.004	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
12...	<.004	<.002	<.003	<.1	.3	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
12...	<.004	<.002	<.003	<.1	.3	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
12...	.097	E.106	.126	--	--	.084	<1	.092	.132	.177	.076	.106	.115
JUL													
02...	<.004	<.002	<.003	<.1	.8	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
AUG													
13...	<.004	<.002	<.003	<.1	2.0	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005
SEP													
09...	<.004	<.002	<.003	<.1	.5	<.013	<1	<.003	<.004	<.035	<.008	<.027	<.005

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Methi- althion water, fltrd, ug/L (61598)	c-Per- methric acid methyl ester, wat flt ug/L (79842)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	t-Per- methric acid methyl ester, wat flt ug/L (79843)	Metola- chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola- chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Myclo- butanil water, fltrd, ug/L (61599)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	O-Et-O- Me-S-Pr phos- thioate wat flt ug/L (61660)
OCT 2002													
09...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
24...	<.006	<.04	<.03	<.031	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
NOV													
14...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
26...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	E.005	<.008
DEC													
16...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
30...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
JAN 2003													
15...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
15...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
28...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
FEB													
10...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
24...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
26...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
APR													
10...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
28...	<.006	<.04	<.03	--	<.03	--	--	--	--	--	<.008	--	<.008
MAY													
21...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
JUN													
12...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
12...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
12...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
12...	.111	E.04	E.09	.181	.08	--	--	.144	.125	.117	.107	.130	.118
JUL													
02...	<.006	<.04	<.03	<.006	<.03	<.05	<.05	<.013	<.006	<.002	<.008	<.007	<.008
AUG													
13...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008
SEP													
09...	<.006	<.04	<.03	<.006	<.03	--	--	<.013	<.006	<.002	<.008	<.007	<.008

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Oxy- fluor- fen, water, fltrd, ug/L (61600)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- oxon, water, fltrd, ug/L (61663)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd, 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd, 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Phoste- bupirim water, fltrd, ug/L (61602)	Pro- fenofos water, fltrd, ug/L (61603)	Prome- ton, water, fltrd, ug/L (04037)
OCT 2002													
09...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
24...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
NOV													
14...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
26...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
DEC													
16...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
30...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
JAN 2003													
15...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	<.01
15...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.04
28...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.04
FEB													
10...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
24...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
26...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
APR													
10...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
28...	<.007	--	<.008	--	--	--	<.10	--	<.06	<.008	<.005	<.006	--
MAY													
21...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
JUN													
12...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	<.01
12...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
12...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
12...	.098	.074	.142	.209	.113	.133	E.10	.103	<.06	<.008	.108	.092	.15
JUL													
02...	<.007	<.003	<.016	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02
AUG													
13...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	E.01
SEP													
09...	<.007	<.003	<.008	<.010	<.004	<.022	<.10	<.011	<.06	<.008	<.005	<.006	.02

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Prome- tryn, water, fltrd, ug/L (04036)	Pron- amide, water, fltrd, 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd, 0.7u GF ug/L (82679)	Propar- gite, water, fltrd, 0.7u GF ug/L (82685)	Propet- amphos, water, fltrd, ug/L (61604)	Sima- zine, water, fltrd, ug/L (04035)	Sulfo- tepp, water, fltrd, ug/L (61605)	Sulpro- fos, water, fltrd, ug/L (38716)	Tebu- pirim- phos- oxon, water, fltrd, ug/L (61669)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin, water, fltrd, ug/L (61606)	Teme- phos, water, fltrd, ug/L (61607)
OCT 2002													
09...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
24...	<.005	<.004	<.010	<.011	<.02	<.004	.017	<.003	<.02	<.006	<.02	<.008	<.3
NOV													
14...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
26...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
DEC													
16...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
30...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
JAN 2003													
15...	<.005	<.004	<.010	<.011	<.02	<.004	<.005	<.003	<.02	<.006	<.02	<.008	<.3
15...	<.005	<.004	<.010	<.011	<.02	<.004	.013	<.003	<.02	<.006	<.02	<.008	<.3
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.005	<.004	<.010	<.011	<.02	<.004	.010	<.003	<.02	<.006	<.02	<.008	<.3
28...	<.005	<.004	<.010	<.011	<.02	<.004	.010	<.003	<.02	<.006	<.02	<.008	<.3
FEB													
10...	<.005	<.004	<.010	<.011	<.02	<.004	.022	<.003	<.02	<.006	<.02	<.008	<.3
24...	<.005	<.004	<.010	<.011	<.02	<.004	.013	<.003	<.02	<.006	<.02	<.008	<.3
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.005	<.004	<.010	<.011	<.02	<.004	<.005	<.003	<.02	<.006	<.02	<.008	<.4
26...	<.005	<.004	<.010	<.011	<.02	<.004	<.010	<.003	<.02	<.006	<.02	<.008	<.3
APR													
10...	<.005	<.004	<.010	<.011	<.02	<.004	<.010	<.003	<.02	<.006	<.02	<.008	<.3
28...	<.005	--	--	--	--	<.004	--	<.003	<.02	<.006	--	<.008	<.3
MAY													
21...	E.003	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
JUN													
12...	<.005	<.004	<.010	<.011	<.02	<.004	<.005	<.003	<.02	<.006	<.02	<.008	<.3
12...	<.005	<.004	<.010	<.011	<.02	<.004	.008	<.003	<.02	<.006	<.02	<.008	<.3
12...	<.005	<.004	<.010	<.011	<.02	<.004	.008	<.003	<.02	<.006	<.02	<.008	<.3
12...	.127	.124	.143	.139	.12	.111	.122	E.100	E.09	.118	.15	E.065	M
JUL													
02...	<.005	<.004	<.010	<.011	<.02	<.004	.011	<.003	<.02	<.006	<.02	<.008	<.3
AUG													
13...	<.005	<.004	<.010	<.011	<.02	<.004	.009	<.003	<.02	<.006	<.02	<.008	<.3
SEP													
09...	<.005	<.004	<.010	<.011	<.02	<.004	.013	<.003	<.02	<.006	<.02	<.008	<.3

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Ter- bufos oxon sulfone water, fltrd ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- butyl- azine, water, fltrd ug/L (04022)	Thio- bencarb water, fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd ug/L (79847)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tribu- phos, water, fltrd ug/L (61610)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	z-Di- metho- morph, water, fltrd ug/L (79845)	Di- chlor- vos, water, fltrd, ug/L (38775)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
OCT 2002													
09...	<.034	<.07	<.02	.04	<.005	<.01	<.002	<.004	<.009	<.05	<.01	65	1.8
24...	<.034	<.07	<.02	.03	<.005	<.01	<.002	<.004	E.005	<.05	<.01	20	.57
NOV													
14...	<.034	<.07	<.02	.02	<.005	<.01	<.002	<.004	<.009	<.05	<.01	29	.75
26...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	14	.40
DEC													
16...	<.034	<.07	<.02	.03	<.005	<.01	<.002	<.004	<.009	<.05	<.01	19	.48
30...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	15	.40
JAN 2003													
15...	<.034	<.07	<.02	<.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	1	--
15...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	28	.85
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.034	<.07	<.02	.08	<.005	<.01	<.002	<.004	<.009	<.05	<.01	31	.72
28...	<.034	<.07	<.02	.08	<.005	<.01	<.002	<.004	<.009	<.05	<.01	37	--
FEB													
10...	<.034	<.07	<.02	.07	<.005	<.01	<.002	<.004	<.009	<.05	<.01	.0	.00
24...	<.034	<.07	<.02	.05	<.005	<.01	<.002	<.004	<.009	<.05	<.01	.0	.00
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
13...	<.034	<.07	<.02	.08	<.005	<.01	<.002	<.004	<.009	<.05	<.01	.0	.00
26...	<.034	<.07	<.02	.03	<.005	<.01	<.002	<.004	<.009	<.05	<.01	14	.42
APR													
10...	<.034	<.07	<.02	.02	<.005	<.01	<.002	<.004	<.009	<.05	<.01	22	.58
28...	--	<.07	--	.04	--	<.01	--	<.004	--	<.05	<.01	19	.56
MAY													
21...	<.034	<.07	<.02	.07	<.005	<.01	<.002	<.004	<.009	<.05	<.01	6	.17
JUN													
12...	<.034	<.07	<.02	<.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	--	--
12...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	4	.12
12...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	--	--
12...	E.103	.10	.09	.15	.133	.07	.124	E.105	.101	E.04	E.04	--	--
JUL													
02...	<.034	<.07	<.02	.01	<.005	<.01	<.002	<.004	<.009	<.05	<.01	54	1.3
AUG													
13...	<.034	<.07	<.02	.02	<.005	<.01	<.002	<.004	<.009	<.05	<.01	43	1.3
SEP													
09...	<.034	<.07	<.02	.44	<.005	<.01	<.002	<.004	<.009	<.05	<.01	7	.19

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
OCT 2002	
09...	26
24...	47
NOV	
14...	46
26...	53
DEC	
16...	68
30...	41
JAN 2003	
15...	50
15...	30
28...	--
28...	35
28...	39
FEB	
10...	50
24...	46
24...	--
MAR	
13...	66
26...	54
APR	
10...	36
28...	53
MAY	
21...	71
JUN	
12...	--
12...	82
12...	--
12...	--
JUL	
02...	37
AUG	
13...	35
SEP	
09...	76

Remark codes used in this report:

< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

³Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3860	3640	3760	3750	3610	3690	---	---	---	3930	3840	3900
2	6820	2430	3560	3730	3660	3690	---	---	---	4000	3680	3870
3	3650	2890	3210	3760	3620	3730	3630	3480	3550	3860	3680	3780
4	3780	3640	3710	3760	3600	3700	3780	3490	3650	3890	3730	3780
5	3890	3640	3790	3770	3630	3720	3820	3700	3760	3880	3750	3810
6	3990	3780	3870	3780	3700	3730	3790	3650	3730	3910	3740	3850
7	3990	3810	3890	3780	3380	3670	4000	3630	3770	3880	3620	3750
8	3970	3640	3800	3760	3210	3430	3860	3600	3740	3830	3020	3480
9	3940	3760	3840	3820	3700	3750	3750	3470	3590	3690	3380	3530
10	3850	3600	3720	3810	3760	3790	3680	3480	3570	3730	3620	3670
11	3800	3700	3750	3820	3710	3770	3680	3490	3570	3790	3670	3760
12	3860	3690	3770	3900	3740	3810	3620	3470	3560	3830	3680	3750
13	3820	3590	3750	3980	3810	3870	3730	3510	3660	3840	3770	3810
14	3800	3530	3690	3890	3820	3840	3730	3630	3660	3790	3620	3690
15	3690	3360	3600	3840	3730	3800	3920	3570	3810	3710	3350	3570
16	3710	3600	3670	3840	3760	3790	3900	3690	3780	3720	3580	3640
17	3620	3540	3590	3860	3270	3580	3950	3680	3820	3730	3580	3640
18	3670	3540	3600	3820	3690	3750	3740	3650	3710	3720	3640	3690
19	3660	3580	3610	3910	3700	3780	3780	3640	3730	3840	3680	3770
20	3680	3610	3650	3920	3770	3830	3760	3640	3690	3800	3590	3700
21	3750	3620	3680	3780	3580	3690	3700	3560	3650	3920	3750	3840
22	3700	3660	3680	3700	3560	3640	3560	3180	3300	3980	3670	3810
23	3760	3600	3690	3710	3590	3650	3880	3560	3760	3890	3630	3790
24	3790	3630	3720	3700	3570	3630	3780	3670	3750	3980	3700	3860
25	3770	3620	3710	3830	3660	3740	3860	3650	3760	3990	3680	3780
26	3780	1680	2510	3890	3730	3810	3840	3620	3740	4030	3660	3850
27	2820	1130	1880	3980	3700	3800	3800	3210	3650	3970	3780	3900
28	3350	1960	2780	3920	3780	3840	3880	3620	3770	3780	3640	3730
29	3620	3350	3510	3920	3780	3850	3900	3410	3750	4020	3780	3900
30	3700	3590	3630	---	---	---	3920	3630	3830	3820	3570	3720
31	3850	3650	3680	---	---	---	3920	3730	3840	3820	3500	3700
MONTH	6820	1130	3560	---	---	---	---	---	---	4030	3020	3750
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3810	3690	3750	2890	1460	2160	3860	3720	3780	3940	3820	3870
2	3790	3550	3680	2980	1560	2300	3880	3750	3820	4010	3900	3940
3	3830	3550	3770	3530	2980	3340	3900	3800	3860	4090	3920	3990
4	3910	3650	3790	3680	3520	3610	3900	3800	3870	4350	4060	4120
5	3860	3680	3780	3720	3580	3640	3870	3760	3820	4410	4160	4270
6	3860	3620	3770	3750	3560	3670	3860	3790	3830	4160	3970	4050
7	3770	3580	3690	4500	3580	3760	3940	3790	3870	4120	4060	4090
8	3920	3620	3790	4370	3810	3920	3850	3560	3730	4360	3910	4080
9	3830	3750	3790	3810	3690	3740	3760	3290	3500	4250	4070	4180
10	3810	3730	3780	3820	3730	3780	3840	3740	3780	4140	3910	4090
11	3790	3730	3760	3780	3680	3750	3850	3590	3810	4010	3910	3940
12	3800	312	2610	3750	3680	3710	3870	3590	3790	4020	3950	3980
13	1950	335	955	3700	3570	3650	4020	3810	3880	4060	3910	4010
14	3380	1950	2820	3730	3610	3660	3960	624	3720	3940	3730	3810
15	3470	3340	3410	3700	2400	3320	2160	596	1140	4340	3780	3980
16	3640	3400	3530	3160	693	1750	3760	2160	3230	4050	3860	3920
17	3690	3500	3600	2970	1450	2120	4080	3760	3910	4010	3860	3920
18	3800	3540	3690	3480	1560	2720	4100	4010	4060	4000	3810	3910
19	3790	3690	3760	3730	3480	3630	4010	2390	3110	3810	3630	3720
20	3690	3100	3440	3840	3620	3730	3900	3630	3860	3670	3620	3650
21	3640	3140	3470	3880	3820	3850	4050	3900	3980	3810	3620	3680
22	3740	3640	3700	3940	3810	3860	4150	3780	4010	3870	3800	3830
23	3700	3580	3670	3900	3850	3880	4020	3870	3940	3840	3700	3750
24	3620	2350	3350	3910	3790	3880	4090	3940	4040	3880	3700	3840
25	2940	283	1910	3790	3660	3710	4070	3980	4020	3960	3860	3890
26	1610	263	855	3800	3640	3730	4010	3510	3780	3940	3840	3890
27	2680	1200	1840	3700	3600	3660	3860	3500	3710	3860	3680	3780
28	2120	449	1190	3690	3640	3660	3870	3790	3840	3830	3680	3740
29	---	---	---	3740	3680	3710	3860	3750	3810	3960	3680	3760
30	---	---	---	3780	3720	3750	3920	3820	3860	4140	3790	3970
31	---	---	---	3880	3740	3790	---	---	---	4060	3750	3960
MONTH	3920	263	3180	4500	693	3470	4150	596	3710	4410	3620	3920

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3840	3490	3750	3840	3690	3760	3120	1370	2330	3610	3510	3550
2	3830	3760	3790	3840	3700	3770	3780	2160	3380	3610	575	1910
3	3790	3430	3660	3840	3750	3800	3880	2610	3650	3810	2880	3520
4	3790	3650	3740	3860	3720	3780	3640	3380	3500	3940	2400	3640
5	3670	3490	3580	3870	3660	3760	3420	3300	3370	3390	1770	2520
6	3710	3620	3660	3860	3740	3790	3470	3340	3410	4070	3360	3740
7	3750	3670	3720	3850	3610	3720	3420	3300	3360	4090	3580	4020
8	3870	3740	3790	3850	3280	3610	3450	3250	3360	4290	3460	4090
9	3870	3800	3830	3630	3480	3570	3490	3320	3430	4300	3500	4160
10	3850	3730	3790	3600	3270	3410	3410	3210	3340	4310	3550	4180
11	3810	3780	3790	3590	3280	3420	3480	3270	3410	4030	3440	3900
12	3830	3790	3820	3820	3590	3690	3510	3350	3450	3930	3560	3800
13	3880	3770	3810	3870	3750	3810	3610	3480	3540	3960	3710	3820
14	3960	3850	3900	3870	3730	3780	3610	3480	3560	3960	3880	3930
15	4000	3910	3940	3800	3560	3750	3650	3500	3570	3940	3840	3900
16	4020	3760	3910	3930	2230	3520	3580	606	2280	3960	3840	3900
17	4050	3950	4000	3400	2630	3010	2540	606	1630	3980	3460	3820
18	4050	3810	3880	3490	3330	3410	3420	2540	3060	3930	3820	3870
19	3910	3680	3810	3500	932	2150	3670	447	2980	3920	3790	3840
20	3680	3540	3610	3360	2080	2850	1490	614	972	4000	3240	3910
21	3620	3510	3570	3480	3320	3370	3180	1490	2520	4120	3320	4010
22	3580	3490	3530	3640	3480	3580	3580	3180	3400	4140	3700	4100
23	3520	3420	3460	4260	3480	3810	3670	3570	3620	4120	3760	3940
24	3480	3410	3440	3990	732	2930	3920	3630	3790	4160	3880	4070
25	3570	3350	3410	3180	832	2170	3970	3680	3830	4300	4160	4220
26	3560	3200	3350	3120	1530	2400	3910	1930	3040	4270	3840	4210
27	3470	3200	3370	3600	3120	3420	2790	1660	2060	4280	3600	4080
28	3610	3340	3480	3660	3530	3590	3290	2790	3120	4310	3720	4130
29	3670	3530	3600	3740	3580	3670	3580	3290	3450	4370	3740	4300
30	3810	3660	3720	3800	3570	3680	3720	3540	3610	4400	4300	4350
31	---	---	---	3830	670	2230	3730	3490	3600	---	---	---
MONTH	4050	3200	3690	4260	670	3390	3970	447	3150	4400	575	3850

Temperature, water, degrees Celsius

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	16.0	19.0	18.0	13.0	15.0	---	---	---	13.5	8.0	10.5
2	18.5	15.0	16.5	18.0	11.5	14.5	---	---	---	14.0	7.5	10.5
3	23.0	14.5	18.0	17.0	10.5	13.5	17.0	11.5	13.5	15.0	9.0	11.5
4	23.5	15.0	18.5	18.0	10.5	13.5	16.5	10.5	13.0	14.5	8.5	11.5
5	25.0	15.5	19.5	18.5	10.0	13.5	16.0	10.0	12.5	14.5	8.5	11.0
6	25.0	16.0	20.0	18.5	10.0	14.0	16.5	11.0	13.5	12.5	9.0	10.5
7	25.5	16.5	20.5	16.5	11.5	14.0	16.5	12.0	13.5	15.5	10.0	12.5
8	26.0	16.5	21.0	17.0	13.5	15.5	16.0	10.0	12.5	16.5	11.5	13.5
9	25.5	16.5	20.5	19.5	13.5	16.5	13.5	9.0	11.0	16.0	10.5	13.0
10	24.5	16.5	20.0	19.0	12.0	15.0	14.5	8.5	11.5	15.0	12.5	13.5
11	24.0	16.5	20.0	17.5	12.5	14.5	15.5	10.5	12.5	16.5	10.5	13.0
12	21.5	17.0	19.0	18.0	11.0	14.0	14.5	9.0	11.5	15.5	10.5	12.5
13	23.5	15.0	18.5	18.5	12.0	14.5	14.5	9.5	11.5	16.0	9.5	12.5
14	23.0	15.0	19.0	18.5	11.5	14.5	15.0	9.5	12.0	15.5	9.0	12.0
15	22.5	14.5	18.0	18.0	11.5	14.0	14.0	11.0	12.5	15.5	9.0	12.0
16	23.5	14.5	19.0	17.5	10.0	13.5	14.0	11.0	12.0	16.0	8.5	12.0
17	20.0	17.0	18.5	17.0	11.5	13.5	14.0	9.5	11.5	16.0	9.0	12.0
18	23.0	15.0	18.5	17.0	10.0	13.0	12.0	8.0	9.5	16.5	9.5	12.5
19	23.0	15.0	18.5	17.0	9.5	13.0	12.5	7.0	9.5	16.0	9.0	12.0
20	23.0	15.5	18.5	17.5	11.0	14.0	10.5	8.5	9.5	15.5	9.0	12.0
21	22.5	14.5	18.0	18.5	11.5	14.5	10.5	8.5	9.5	16.0	9.0	12.0
22	22.5	15.0	18.0	18.0	11.5	14.5	12.0	7.5	9.5	16.5	9.5	12.5
23	22.0	14.5	17.5	18.0	11.5	14.5	12.0	8.0	10.0	16.5	10.5	13.0
24	21.5	14.0	17.5	18.0	11.5	14.0	12.0	7.0	9.5	17.0	10.0	13.0
25	21.5	14.5	17.5	13.5	10.0	12.0	12.0	6.5	9.0	17.5	10.0	13.5
26	18.5	16.0	17.0	13.5	8.5	11.0	12.0	6.5	9.0	17.5	10.5	13.5
27	21.0	16.0	18.0	14.5	8.5	11.0	12.5	6.5	9.0	17.5	10.5	13.5
28	21.5	15.0	17.5	15.0	9.0	12.0	12.5	6.5	9.5	18.0	10.5	13.5
29	21.0	13.5	16.5	16.5	11.0	13.5	13.5	8.5	10.5	17.5	10.5	13.5
30	20.5	13.0	16.5	---	---	---	13.0	7.5	10.0	18.0	10.5	13.5
31	21.0	13.5	16.5	---	---	---	14.0	8.5	11.0	18.5	11.0	14.5
MONTH	26.0	13.0	18.4	---	---	---	---	---	---	18.5	7.5	12.5

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

Temperature, water, degrees Celsius

WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	18.5	12.0	15.0	15.5	10.0	12.0	23.0	15.0	18.5	24.0	15.5	19.5
2	14.0	9.5	11.5	17.0	8.5	12.5	19.5	12.5	15.5	22.5	15.5	19.0
3	15.5	8.0	11.0	16.0	9.5	12.5	20.5	10.5	15.0	22.5	15.5	18.5
4	15.0	7.5	11.0	16.0	10.0	13.0	19.5	11.5	15.0	24.5	14.5	19.0
5	13.5	8.0	10.0	19.0	10.5	14.0	19.5	11.5	14.5	25.0	16.0	20.0
6	13.5	6.5	9.5	19.5	11.0	14.5	21.5	11.0	16.0	25.5	16.0	20.0
7	12.5	6.0	9.0	20.0	11.5	15.5	21.0	13.0	16.5	23.5	15.0	19.0
8	14.0	6.5	9.5	21.0	12.0	16.0	23.0	12.5	17.5	21.5	15.0	17.5
9	15.0	6.0	10.0	21.5	12.5	17.0	24.5	13.5	18.5	22.5	13.0	17.5
10	14.5	6.5	10.0	22.0	13.0	17.5	25.0	15.0	19.5	24.5	15.0	19.5
11	14.5	9.5	11.5	22.5	14.0	18.0	24.5	15.5	19.5	26.0	16.0	20.5
12	13.0	11.0	12.0	23.0	14.0	18.0	24.5	16.0	20.0	26.0	16.5	21.0
13	14.0	11.0	12.5	22.5	14.5	18.0	23.5	15.0	19.0	24.5	18.5	21.0
14	18.0	12.5	15.0	23.0	15.5	18.0	21.0	14.5	17.0	23.0	18.5	20.5
15	18.5	12.5	15.5	18.0	14.5	16.0	20.5	13.5	16.5	27.0	16.0	21.0
16	18.5	13.5	15.5	17.5	13.5	15.0	23.0	13.5	18.0	28.0	19.0	23.0
17	17.0	12.5	14.5	17.5	12.5	14.0	22.0	15.0	17.5	24.5	19.5	21.5
18	17.5	12.0	14.5	18.5	10.0	13.5	19.5	13.5	16.0	28.0	18.0	22.5
19	17.5	10.5	13.5	19.0	10.5	14.5	23.0	13.5	17.5	27.0	17.0	22.0
20	18.0	13.0	15.0	21.5	12.0	16.0	24.0	14.5	19.0	28.5	18.0	23.0
21	19.0	11.0	14.5	21.5	12.5	16.5	22.5	16.5	19.0	30.0	19.0	24.0
22	18.5	11.0	14.0	22.5	13.0	17.5	18.5	13.0	16.0	30.0	19.5	24.5
23	18.0	10.5	14.0	23.5	14.0	18.0	24.0	13.5	18.0	28.0	20.5	24.0
24	17.5	13.0	14.5	22.5	14.5	18.0	23.5	15.0	18.5	29.5	20.0	24.5
25	14.5	11.0	13.5	23.5	14.5	18.5	23.0	14.0	18.0	30.0	20.5	24.5
26	14.5	10.0	12.0	23.0	15.0	18.5	24.0	13.5	18.5	31.0	20.0	25.0
27	14.5	11.0	12.5	20.5	12.5	16.0	23.5	15.0	18.5	32.0	21.0	26.0
28	12.5	8.0	10.5	19.5	11.0	14.0	22.0	14.5	17.5	32.0	22.0	26.5
29	---	---	---	21.0	10.5	15.5	23.0	13.0	17.5	31.0	23.5	26.5
30	---	---	---	23.0	12.5	17.0	24.5	13.0	18.0	31.0	22.0	26.0
31	---	---	---	24.0	14.0	18.5	---	---	---	31.5	22.0	26.0
MONTH	19.0	6.0	12.6	24.0	8.5	15.9	25.0	10.5	17.5	32.0	13.0	22.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	32.5	21.5	26.5	30.0	19.5	24.5	27.5	24.5	26.5	33.5	24.0	28.5
2	32.0	22.0	26.5	31.5	20.0	25.0	32.0	23.0	27.0	31.5	24.5	28.0
3	32.0	21.5	26.0	33.0	21.0	26.5	32.5	23.5	27.5	32.5	25.0	28.0
4	32.0	22.0	26.5	33.0	22.0	27.0	33.0	23.0	27.5	32.5	23.5	27.0
5	30.5	21.0	25.5	33.5	22.5	27.5	32.0	22.5	26.5	33.0	24.0	27.5
6	32.0	21.0	25.5	32.0	21.5	26.5	30.5	22.5	25.5	32.0	23.0	27.0
7	32.0	21.5	26.0	32.5	20.5	26.0	30.5	21.5	25.5	29.5	22.5	25.5
8	31.5	22.0	26.0	32.5	21.5	26.5	32.0	22.5	27.0	27.0	20.0	22.5
9	28.5	21.5	24.5	34.0	22.0	27.5	33.0	24.0	28.0	26.5	18.5	22.0
10	28.5	19.5	23.0	34.5	22.5	28.0	33.5	24.5	28.5	28.5	19.0	23.0
11	29.5	20.0	24.0	33.5	23.5	28.0	33.5	24.5	28.0	29.0	19.5	23.5
12	30.0	20.0	24.5	33.5	23.0	27.5	31.0	25.0	27.0	30.0	20.0	24.5
13	30.0	19.5	24.0	32.5	23.5	27.5	32.5	23.0	27.0	28.0	20.5	23.5
14	31.5	20.0	25.0	32.5	23.0	27.5	31.0	23.5	26.5	29.0	18.0	23.0
15	31.0	21.0	25.5	31.5	23.5	27.0	31.0	23.5	26.5	29.5	19.5	24.0
16	31.5	21.0	25.5	32.5	23.5	27.5	32.5	24.0	27.5	27.5	20.0	23.0
17	32.5	21.0	26.5	33.0	25.5	28.5	34.0	26.0	29.5	28.5	18.0	22.0
18	30.5	21.0	25.5	33.5	25.0	28.5	34.5	25.5	29.5	26.0	15.5	20.5
19	26.0	21.0	23.0	33.0	25.0	29.0	31.5	24.5	27.0	28.5	17.5	22.0
20	29.0	19.5	23.5	35.0	26.0	30.0	28.0	23.5	25.5	29.5	18.5	23.5
21	29.0	19.5	23.5	35.0	25.5	30.0	31.5	24.0	27.0	29.5	18.5	23.5
22	29.5	19.5	23.5	33.0	26.5	29.5	31.5	25.5	27.5	29.5	18.5	23.5
23	28.0	19.0	23.0	34.0	26.0	29.5	33.0	24.0	27.5	29.0	19.0	24.0
24	29.0	17.5	22.5	31.5	26.0	28.5	33.5	24.5	28.0	28.0	20.5	24.0
25	30.0	19.0	24.0	29.0	25.5	27.5	33.5	24.5	28.5	30.0	21.0	25.0
26	30.0	20.0	25.0	31.0	25.0	27.0	31.0	25.5	27.0	29.5	19.0	23.5
27	32.5	20.5	26.0	33.0	23.5	28.0	32.0	25.0	27.5	29.5	19.0	24.0
28	33.5	21.0	27.0	33.0	25.5	28.5	33.5	24.0	28.0	29.0	19.0	23.5
29	32.0	22.0	26.0	33.5	24.5	28.0	33.0	24.5	28.0	29.0	20.0	24.0
30	31.0	20.0	24.5	33.5	24.5	28.0	33.0	23.0	27.5	29.5	20.5	24.5
31	---	---	---	31.0	26.0	28.0	33.5	24.0	28.5	---	---	---
MONTH	33.5	17.5	24.9	35.0	19.5	27.7	34.5	21.5	27.4	33.5	15.5	24.3

LAS VEGAS VALLEY

094196784 LAS VEGAS WASH AT VEGAS VALLEY DRIVE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'13", long 115°02'16", in NE 1/4 SW 1/4 sec.10, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at junction of Las Vegas Wash and Vegas Valley Drive.

DRAINAGE AREA.--1,019 mi².

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,690 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s, July 8, 1999, gage height, 11.22 ft; minimum daily, 7.0 ft³/s, January 2, 2000. Maximum daily precipitation, 0.98 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,390 ft³/s, August 19, gage height, 2.46 ft; minimum daily, 9.5 ft³/s, October 13. Maximum daily precipitation, 0.80 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	146	12	e15	e50	e23	15	e14	13	57	e17
2	22	12	16	12	e14	e30	e14	15	e15	13	e15	e150
3	15	12	14	13	e15	e20	e16	15	14	13	e15	e20
4	10	12	14	13	e15	e20	e20	14	14	12	e15	e30
5	10	12	13	13	e14	e25	e18	13	14	12	e15	e35
6	9.7	12	13	13	e13	e20	e19	e14	15	14	e15	e15
7	9.8	13	13	13	e13	e20	e20	e14	18	15	e14	e14
8	9.9	15	13	18	e12	e17	e21	e15	18	15	e15	e14
9	9.7	11	14	16	e13	e17	e19	e16	20	13	e14	e13
10	9.9	11	14	14	e15	e18	e20	e16	18	14	e15	e13
11	9.7	11	15	14	43	e19	e22	e15	18	e15	e15	e12
12	9.7	11	14	14	243	e18	e20	e14	18	e16	e15	e11
13	9.5	11	13	13	186	e18	e11	e15	17	e15	e14	e11
14	10	11	12	14	41	e19	e34	e14	17	e16	e16	e11
15	10	11	12	15	e15	e18	e267	e14	15	e16	e20	e12
16	11	12	12	13	e15	e147	e17	e13	17	e16	e150	e12
17	11	13	12	14	e15	e32	e14	e14	15	e17	e140	e11
18	11	11	12	13	e17	e28	e14	e14	16	e16	e10	e12
19	11	12	12	13	e17	e21	e20	e14	18	95	467	e12
20	11	12	13	13	e16	e17	e15	e14	18	e17	309	e11
21	11	12	13	13	e18	e19	e16	e14	17	e16	331	e11
22	11	12	16	13	e17	e18	e11	13	18	e15	e20	e12
23	12	12	13	14	e17	e18	e14	13	18	e14	e19	12
24	12	12	13	14	e30	e20	e12	14	17	20	e15	14
25	12	11	13	14	e250	e21	14	13	15	23	e15	e13
26	67	12	13	14	e600	e21	15	13	15	e14	e45	e13
27	100	12	13	14	e60	e21	16	13	14	e15	e45	e12
28	21	12	13	14	e50	e28	16	15	13	e15	e20	e12
29	14	12	13	e13	---	e27	18	17	13	e15	e17	e12
30	13	77	12	e13	---	e24	18	15	12	e18	e17	11
31	13	---	12	e14	---	e20	---	15	---	143	e17	---
TOTAL	506.9	421	541	423	1789	811	774	443	481	681	1907	558
MEAN	16.4	14.0	17.5	13.6	63.9	26.2	25.8	14.3	16.0	22.0	61.5	18.6
MAX	100	77	146	18	600	147	267	17	20	143	467	150
MIN	9.5	11	12	12	12	17	11	13	12	12	10	11
AC-FT	1010	835	1070	839	3550	1610	1540	879	954	1350	3780	1110
f	0.36	0.12	0.00	0.04	2.12	0.36	0.52	0.00	0.00	0.44	0.08	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	15.8	12.1	12.4	14.7	55.0	19.5	14.8	11.8	12.7	36.8	30.1	14.1
MAX	26.5	14.0	17.5	26.5	73.8	26.2	25.8	14.3	16.0	125	61.5	18.6
(WY)	2001	2003	2003	2001	2000	2003	2003	2003	2003	1999	2003	2003
MIN	9.34	9.62	9.15	8.36	12.0	13.8	9.63	9.92	10.1	10.2	9.88	12.0
(WY)	2000	2000	2000	2000	2002	2002	2001	2001	2001	2000	2002	2001

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1999 - 2003

ANNUAL TOTAL	4624.8	9335.9	
ANNUAL MEAN	12.7	25.6	18.9
HIGHEST ANNUAL MEAN			25.6 2003
LOWEST ANNUAL MEAN			11.8 2002
HIGHEST DAILY MEAN	146 Dec 1	600 Feb 26	1600 Jul 8 1999
LOWEST DAILY MEAN	8.3 Jun 30	9.5 Oct 13	7.0 Jan 2 2000
ANNUAL SEVEN-DAY MINIMUM	8.5 Jun 30	9.7 Oct 7	7.7 Dec 30 1999
MAXIMUM PEAK FLOW		2390 Aug 19	11000 Jul 8 1999
MAXIMUM PEAK STAGE		2.46 Aug 19	11.22 Jul 8 1999
ANNUAL RUNOFF (AC-FT)	9170	18520	13720
10 PERCENT EXCEEDS	13	24	18
50 PERCENT EXCEEDS	12	14	12
90 PERCENT EXCEEDS	9.6	11	9.1

e Estimated

f Precipitation total, in inches

LAS VEGAS VALLEY

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW 1/4 SE 1/4 sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank, 500 ft west of Hollywood Boulevard, and 1.5 mi northeast of East Las Vegas Civic Center.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1979 to September 1983, November 1983 to May 1984, and September 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,650 ft above NGVD of 1929, from topographic map. See WDR NV-97-1 for history of changes prior to 1997 water year. Prior to November 21, 1997, at same site at datum 1.0 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by sewage treatment plant. At higher flows, some water can bypass the gage due to overbank flow upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 871 ft³/s, February 26, 2003, gage height, 7.04 ft; minimum daily, 45 ft³/s, August 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 871 ft³/s, February 26, gage height, 7.04 ft; minimum daily, 200 ft³/s, January 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	218	320	231	212	273	238	235	245	237	258	246
2	223	224	239	238	238	270	235	240	242	236	251	316
3	232	226	228	e233	219	261	239	248	241	235	244	237
4	223	225	226	e240	219	256	236	247	234	242	238	245
5	230	224	218	e243	217	253	246	243	241	241	235	254
6	230	222	224	e242	e223	251	246	231	239	239	234	240
7	221	222	229	e232	e230	249	247	236	249	240	238	239
8	217	220	230	e231	e236	254	236	241	246	236	238	234
9	214	222	221	e241	e244	253	245	237	236	233	238	237
10	218	222	221	e247	e240	246	241	241	237	236	240	232
11	217	215	216	e254	e224	244	242	235	235	234	235	232
12	227	213	218	e260	e354	249	247	241	232	238	232	233
13	226	221	226	e243	e596	245	250	237	236	236	230	239
14	225	219	226	e229	243	251	252	236	243	233	233	241
15	220	214	223	e236	250	253	425	236	238	237	239	237
16	218	224	218	e245	245	305	251	234	234	239	286	235
17	220	226	214	e259	245	275	239	240	241	239	335	233
18	228	219	211	e239	236	256	252	244	238	238	241	231
19	226	219	212	e231	234	239	268	241	238	330	300	236
20	231	212	213	e236	232	244	252	238	238	245	489	243
21	223	214	221	e244	230	250	247	241	245	242	297	239
22	217	210	230	200	235	259	246	238	241	241	263	237
23	221	225	227	243	238	254	240	242	242	240	256	232
24	219	226	229	242	236	250	243	246	239	261	270	234
25	223	216	218	237	331	251	244	244	237	266	268	234
26	261	218	226	228	498	245	248	244	239	264	258	233
27	291	217	234	218	272	243	246	238	247	244	241	239
28	247	228	233	213	399	242	240	240	244	241	239	236
29	229	224	230	222	---	247	234	239	242	241	243	231
30	224	265	e236	219	---	246	235	241	238	237	249	229
31	213	---	242	216	---	244	---	246	---	329	248	---
TOTAL	7027	6650	7059	7292	7576	7858	7510	7440	7197	7650	8066	7184
MEAN	227	222	228	235	271	253	250	240	240	247	260	239
MAX	291	265	320	260	596	305	425	248	249	330	489	316
MIN	213	210	211	200	212	239	234	231	232	233	230	229
AC-FT	13940	13190	14000	14460	15030	15590	14900	14760	14280	15170	16000	14250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2003, BY WATER YEAR (WY)

MEAN	157	159	157	164	166	163	157	153	154	159	162	161
MAX	227	224	237	235	271	253	250	240	240	247	260	239
(WY)	2003	1997	2002	2003	2003	2003	2003	2003	2003	2003	2003	2003
MIN	79.0	83.2	85.5	91.7	94.7	86.4	80.8	79.1	70.3	73.3	66.8	75.0
(WY)	1980	1980	1980	1982	1981	1980	1981	1979	1979	1979	1979	1979

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1979 - 2003

ANNUAL TOTAL	81708	88509	
ANNUAL MEAN	224	242	162
HIGHEST ANNUAL MEAN			242
LOWEST ANNUAL MEAN			87.3
HIGHEST DAILY MEAN	320	Dec 1	596
LOWEST DAILY MEAN	188	Apr 10	200
ANNUAL SEVEN-DAY MINIMUM	201	Apr 10	216
MAXIMUM PEAK FLOW			871
MAXIMUM PEAK STAGE		7.04	Feb 26
ANNUAL RUNOFF (AC-FT)	162100	175600	117400
10 PERCENT EXCEEDS	235	257	223
50 PERCENT EXCEEDS	223	238	163
90 PERCENT EXCEEDS	211	219	94

e Estimated

LAS VEGAS VALLEY

09419696 DUCK CREEK AT BROADBENT BOULEVARD AT EAST LAS VEGAS, NV

LOCATION.--Lat 36°05'27", long 115°01'23", in NE 1/4 SW 1/4 sec.26, T.12 S., R.62 E., Clark County, Hydrologic Unit 15010005, at Broadbent Boulevard, and 1.2 mi upstream from Las Vegas Wash.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1988-September 2000, miscellaneous measurements and annual peak flow; October 2000 to current year. Previously published as "at Tropicana Avenue".

GAGE.--Water-stage recorder. Elevation of gage is 1,605 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Temporary gage installed in July, 2003 at Duck Creek Wetlands Park while new bridge at gage site was being constructed.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s, July 8, 1999, from slope-area determination of peak flow; minimum daily, e3.7 ft³/s, September 27-28, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s, April 15, gage height, 8.44 ft; minimum daily, e3.7 ft³/s, September 27-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	7.1	7.2	7.1	7.1	13	e10	e4.5	5.9	5.2	10	e5.4
2	7.8	7.1	7.1	7.1	7.1	12	e10	e4.4	5.8	5.3	8.3	9.2
3	7.2	7.1	7.1	7.1	7.1	11	e10	e4.3	6.0	5.4	7.9	e6.2
4	7.1	7.1	7.1	7.1	7.3	11	e11	e4.4	6.1	5.2	7.9	e5.4
5	7.1	7.1	7.1	7.1	7.3	13	e10	e4.5	6.1	5.1	7.6	e5.0
6	7.1	7.1	7.2	7.1	7.1	11	e10	4.7	5.8	5.1	7.7	e4.8
7	7.1	7.1	7.1	7.1	7.1	10	e9.0	4.8	6.1	5.2	7.7	e4.7
8	7.2	7.1	7.1	7.1	7.1	10	e9.0	4.8	5.9	5.2	7.6	e4.7
9	7.1	7.1	7.1	7.1	7.3	9.0	e9.0	4.8	5.8	5.9	7.8	e4.6
10	7.1	7.1	7.1	7.3	7.2	9.3	e10	4.9	5.8	e6.0	7.7	e4.6
11	7.1	7.1	7.1	7.1	7.3	10	e10	4.8	5.8	e5.0	7.4	e4.2
12	7.1	7.1	7.1	7.1	151	9.0	e10	4.9	5.7	e6.0	7.4	e4.5
13	7.1	7.1	7.1	7.1	81	8.3	e10	5.0	5.7	e5.0	7.5	e4.5
14	7.1	7.1	7.1	7.1	10	7.8	e30	4.9	5.6	e6.0	7.4	e4.4
15	7.1	7.1	7.1	7.1	8.1	9.0	e580	4.8	5.6	e6.4	8.0	e4.4
16	7.1	7.5	7.1	7.1	6.1	13	e50	5.0	5.7	6.8	9.5	e4.5
17	7.1	7.3	7.1	7.1	4.5	10	e15	5.0	5.6	7.8	12	e4.5
18	7.1	7.4	7.1	7.1	14	9.3	e10	5.0	5.5	6.0	7.0	e4.3
19	7.1	7.1	7.2	7.1	14	8.9	e10	5.0	5.5	8.2	8.1	e4.2
20	7.1	7.1	7.1	7.1	14	10	e10	5.2	5.4	6.4	8.6	e4.4
21	7.1	7.1	7.2	7.1	13	9.8	e9.0	5.2	5.5	6.3	e6.2	e4.3
22	7.1	7.1	7.1	7.1	13	9.6	e9.0	5.2	5.4	6.1	e5.9	e4.4
23	7.1	7.1	7.1	7.2	13	9.6	e9.0	5.2	5.4	6.0	e5.9	e4.3
24	7.3	7.1	7.1	7.2	13	11	e7.0	5.4	5.2	9.4	e5.7	e4.3
25	7.5	7.1	7.1	7.1	73	9.8	e6.0	5.4	5.3	12	e5.9	e4.4
26	10	7.1	7.1	7.1	89	11	e5.0	5.4	5.3	8.4	e5.7	e4.1
27	11	7.0	7.2	7.1	15	12	e5.0	5.5	5.4	7.1	e5.6	e3.7
28	7.6	7.0	7.1	7.1	14	12	e5.0	5.7	5.4	7.4	e5.4	e3.7
29	7.3	7.1	7.1	7.1	---	e11	e4.5	5.5	5.2	7.9	e5.6	e4.0
30	7.1	11	7.1	7.1	---	e11	e4.5	5.7	5.1	7.3	e4.9	e4.0
31	7.1	---	7.1	7.1	---	e10	---	5.8	---	11	e5.1	---
TOTAL	228.6	217.6	220.6	220.5	624.7	321.4	897.0	155.7	168.6	206.1	225.0	139.7
MEAN	7.37	7.25	7.12	7.11	22.3	10.4	29.9	5.02	5.62	6.65	7.26	4.66
MAX	11	11	7.2	7.3	151	13	580	5.8	6.1	12	12	9.2
MIN	6.6	7.0	7.1	7.1	4.5	7.8	4.5	4.3	5.1	5.0	4.9	3.7
AC-FT	453	432	438	437	1240	637	1780	309	334	409	446	277

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	6.40	5.74	5.46	6.33	18.2	8.52	15.9	5.82	5.75	9.13	6.00	5.10
MAX	7.37	7.25	7.12	7.11	26.0	10.4	29.9	6.65	6.46	14.7	7.26	5.38
(WY)	2003	2003	2003	2003	2001	2003	2003	2001	2001	2001	2003	2001
MIN	5.43	4.23	3.80	5.55	6.41	6.43	6.37	5.02	5.17	6.00	4.98	4.66
(WY)	2002	2002	2002	2002	2002	2002	2002	2003	2002	2002	2002	2003

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 2001 - 2003

ANNUAL TOTAL	2241.8	3625.5	
ANNUAL MEAN	6.14	9.93	7.69
HIGHEST ANNUAL MEAN			9.93 2003
LOWEST ANNUAL MEAN			5.45 2002
HIGHEST DAILY MEAN	36 Jul 17	580 Apr 15	580 Apr 15 2003
LOWEST DAILY MEAN	3.9 Sep 9	3.7 Sep 27	3.2 Dec 5 2001
ANNUAL SEVEN-DAY MINIMUM	4.2 Sep 4	4.0 Sep 24	3.3 Dec 4 2001
MAXIMUM PEAK FLOW		1160 Apr 15	3100 Jul 8 1999
MAXIMUM PEAK STAGE		8.44 Apr 15	8.70 Jul 6 2001
ANNUAL RUNOFF (AC-FT)	4450	7190	5570
10 PERCENT EXCEEDS	7.1	10	9.0
50 PERCENT EXCEEDS	6.2	7.1	6.0
90 PERCENT EXCEEDS	4.9	4.8	4.4

e Estimated

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH AT PABCO ROAD NEAR HENDERSON, NV

LOCATION.--Lat 36°05'15", long 114°59'06", in NW 1/4 SE 1/4 sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on right bank, at low-head dam, 3.5 mi north of Henderson and 6.0 mi upstream from Lake Mead.

DRAINAGE AREA.--2,125 mi², of which 1,518 mi² contribute directly to surface runoff. Prior to April 4, 1961, 2,179 mi², of which 1,571 mi² contributed directly to surface runoff.

PERIOD OF RECORD.--May 1957 to September 1983 and, October 1984 to September 1988 (published as "near Henderson"), October 2000 to current year.

GAGE.--Water-stage recorder and low-head concrete dam. Elevation of gage is 1,540 ft above NGVD of 1929, from topographic map. Prior to October 4, 2000, at several sites and datums within 2.5 mi of current location.

REMARKS.--No estimated daily discharge. Records good. Discharge includes treated sewage effluent from municipal treatment plants and some wastewater from industrial plants. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft³/s, on basis of area-velocity computation to determine peak flow, July 4, 1975, gage height, 10.67 ft, datum then in use, from floodmarks and rating curve extension above 3,340 ft³/s; minimum daily, 4.8 ft³/s, August 17, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,020 ft³/s, February 26, gage height, 7.68 ft; minimum daily, 182 ft³/s, June 3, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	262	322	265	258	273	219	235	197	211	335	282
2	206	270	259	271	269	263	219	240	193	207	307	421
3	214	279	249	255	259	254	223	243	182	207	296	285
4	208	279	249	267	253	253	210	238	182	216	290	313
5	215	276	240	270	258	254	221	231	207	216	311	316
6	221	279	247	267	247	262	224	227	218	215	325	282
7	216	270	255	255	250	253	230	229	225	213	335	266
8	214	278	253	254	254	270	214	239	218	207	337	258
9	214	281	245	266	257	289	218	229	209	205	334	267
10	220	278	244	277	247	279	205	224	209	208	336	262
11	221	279	244	291	226	283	203	215	206	202	328	266
12	233	279	245	289	419	298	204	219	204	204	323	268
13	232	290	246	282	844	296	206	217	208	200	317	272
14	232	289	254	261	254	298	207	218	216	195	317	271
15	240	283	254	278	246	315	583	213	213	202	328	265
16	243	289	248	295	241	391	279	214	210	203	382	263
17	253	291	252	296	241	319	252	216	217	204	502	259
18	258	292	255	285	229	284	278	208	213	202	303	256
19	255	251	252	266	217	257	313	206	215	315	413	237
20	257	219	253	268	228	257	285	203	220	209	800	260
21	255	227	257	294	226	261	271	203	224	206	349	255
22	251	230	266	254	230	283	265	201	215	204	285	257
23	256	241	263	307	224	289	263	213	216	201	270	256
24	261	242	274	306	230	235	261	213	212	242	289	256
25	264	238	256	291	382	222	260	209	209	248	287	252
26	281	231	266	278	1010	219	252	203	210	232	322	244
27	304	230	275	270	299	231	256	206	221	210	348	246
28	284	243	282	262	609	225	246	204	219	205	300	248
29	268	240	274	257	---	230	241	195	220	204	285	236
30	269	274	263	265	---	229	231	196	214	200	291	216
31	258	---	275	264	---	227	---	198	---	377	287	---
TOTAL	7500	7910	8017	8506	8907	8299	7539	6705	6322	6770	10532	8035
MEAN	242	264	259	274	318	268	251	216	211	218	340	268
MAX	304	292	322	307	1010	391	583	243	225	377	800	421
MIN	197	219	240	254	217	219	203	195	182	195	270	216
AC-FT	14880	15690	15900	16870	17670	16460	14950	13300	12540	13430	20890	15940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

MEAN	71.2	79.0	79.1	82.0	85.8	78.4	73.3	68.4	65.3	66.8	75.6	72.1
MAX	242	264	259	288	344	268	251	233	241	239	340	268
(WY)	2003	2003	2003	2001	2001	2003	2003	2001	2001	2002	2003	2003
MIN	17.3	19.5	22.5	22.1	21.8	20.9	18.2	14.5	8.76	7.54	8.19	13.2
(WY)	1962	1963	1961	1962	1962	1962	1962	1962	1958	1962	1962	1964

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1958 - 2003

ANNUAL TOTAL	85736	95042		
ANNUAL MEAN	235	260	72.7	
HIGHEST ANNUAL MEAN			260	2003
LOWEST ANNUAL MEAN			16.9	1962
HIGHEST DAILY MEAN	322	Dec 1	1010	Feb 26
LOWEST DAILY MEAN	181	Sep 18	182	Jun 3
ANNUAL SEVEN-DAY MINIMUM	190	Apr 13	192	May 29
MAXIMUM PEAK FLOW			2020	Feb 26
MAXIMUM PEAK STAGE			7.68	Feb 26
ANNUAL RUNOFF (AC-FT)	170100	188500	52680	
10 PERCENT EXCEEDS	263	307	157	
50 PERCENT EXCEEDS	236	253	53	
90 PERCENT EXCEEDS	203	206	17	

LAS VEGAS VALLEY

09419740 C-1 CHANNEL NEAR WARM SPRINGS ROAD AT HENDERSON, NV

LOCATION.--Lat 36°02'41", long 114°57'30" in SE 1/4 SE 1/4 sec.8, T.22 S., R.63 E., Clark County, Hydrologic Unit 15010015, on left bank, 0.8 mi east of Lake Mead Drive and 0.3 mi south of Warm Springs Road.

DRAINAGE AREA.--3.78 mi².

PERIOD OF RECORD.--October 1990 to September 1994 (published as "at Warm Springs Road near Henderson"), May 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,870 ft above NGVD of 1929, from topographic map. Prior to May 24, 1995, water-stage recorder at site 0.3 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s, August 10, 1997, gage height, 18.44 ft; no flow most of time. Maximum daily precipitation, 2.36 inches, August 10, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 573 ft³/s, September 4, gage height, 14.00 ft; no flow most days. Maximum daily precipitation, 0.84 inches, February 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	18
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.9	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	2.8	0.00	0.00	0.00	0.00	0.01	0.00	0.00
26	0.00	0.00	0.00	0.00	1.9	0.00	0.00	0.00	0.00	0.00	2.4	0.00
27	2.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	47.40	0.00	0.00	0.00	6.07	0.93	1.50	0.00	0.00	0.01	12.12	18.00
MEAN	1.53	0.000	0.000	0.000	0.22	0.030	0.050	0.000	0.000	0.000	0.39	0.60
MAX	45	0.00	0.00	0.00	2.8	0.74	0.62	0.00	0.00	0.01	7.9	18
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	94	0.00	0.00	0.00	12	1.8	3.0	0.00	0.00	0.02	24	36
†	0.64	0.24	0.00	0.00	1.76	0.60	0.52	0.00	0.00	0.08	1.04	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2003, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	0.23	0.058	0.23	1.77	0.56	0.87	4.03	1.01	1.36	4.44	4.75	2.34		
MAX	1.53	0.57	2.52	20.2	2.96	8.24	48.3	12.1	17.6	56.2	45.9	25.1		
(WY)	2003	2002	2002	2002	2002	1992	2002	2002	2002	2002	2002	2002		
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
(WY)	1991	1991	1992	1994	1994	1994	1991	1991	1992	1991	1994	1992		

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1990 - 2003

ANNUAL TOTAL	7026.63	86.03		
ANNUAL MEAN	19.3	0.24	1.90	
HIGHEST ANNUAL MEAN			19.5	2002
LOWEST ANNUAL MEAN			0.000	1994
HIGHEST DAILY MEAN	172	Apr 25	417	Aug 10 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 11	0.00	Oct 1 1990
MAXIMUM PEAK FLOW			573	Sep 4
MAXIMUM PEAK STAGE			14.00	Sep 4
ANNUAL RUNOFF (AC-FT)	13940		171	1380
10 PERCENT EXCEEDS	72		0.00	0.00
50 PERCENT EXCEEDS	0.00		0.00	0.00
90 PERCENT EXCEEDS	0.00		0.00	0.00

† Precipitation total, in inches

LAS VEGAS VALLEY

09419756 LAS VEGAS WASH OVERFLOW AT LAKE LAS VEGAS INLET, NV

LOCATION.--Lat 36°06'09", long 114°56'01", in SE 1/4 SW 1/4 sec.22, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right end of weir at Lake Las Vegas Inlet structure, about 3.5 mi northeast of Henderson.

DRAINAGE AREA.--2,190 mi², approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharge. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s, July 8, 1999, gage height, 40.04 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s August 20, gage height, 28.28 ft; no flow most days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	149	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	306	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	194	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	77	0.00	---
TOTAL	0.00	0.00	0.00	0.00	573.00	0.00	0.00	0.00	0.00	77.00	261.00	0.00
MEAN	0.000	0.000	0.000	0.000	20.5	0.000	0.000	0.000	0.000	2.48	8.42	0.000
MAX	0.00	0.00	0.00	0.00	306	0.00	0.00	0.00	0.00	77	149	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	1140	0.00	0.00	0.00	0.00	153	518	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)

MEAN	0.001	0.33	0.000	2.02	13.8	4.20	0.000	0.000	0.000	12.7	0.85	6.31
MAX	0.012	3.97	0.000	23.5	64.4	46.2	0.000	0.000	0.000	146	8.42	75.1
(WY)	1993	1997	1992	1995	2000	1992	1992	1992	1992	1999	2003	1998
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1992	1992	1992	1993	1995	1993	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003	
ANNUAL TOTAL	0.00		911.00			
ANNUAL MEAN	0.000		2.50		3.30	
HIGHEST ANNUAL MEAN					12.4	
LOWEST ANNUAL MEAN					0.000	
HIGHEST DAILY MEAN	0.00	Jan 1	306	Feb 26	4100	Jul 8 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1991
MAXIMUM PEAK FLOW			1170	Aug 20	17000	Jul 8 1999
MAXIMUM PEAK STAGE			28.28	Aug 20	40.04	Jul 8 1999
ANNUAL RUNOFF (AC-FT)	0.00		1810		2390	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH BELOW LAKE LAS VEGAS NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE 1/4 SE 1/4 sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead Recreation Area, on right bank, under bridge at North Shore Road, and 11.0 mi northeast of Boulder City.

DRAINAGE AREA--2,193 mi², of which 1,586 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--August 1969 to September 1984 (published as "near Boulder City"), July 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,280 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge includes treated sewage effluent. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,760 ft³/s, August 14, 1984, gage height, 11.32 ft, from slope-area measurement of peak flow; minimum daily, 17 ft³/s, July 8, 30, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s, July 8, 1999, from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,800 ft³/s, February 26, gage height, 6.85 ft; minimum daily, 205 ft³/s, July 13 and 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e220	242	350	266	266	350	294	247	235	233	285	236
2	e220	245	258	270	284	334	286	261	233	232	239	360
3	e225	251	256	254	275	320	288	274	232	215	230	250
4	e215	249	254	263	262	310	270	277	229	e220	226	286
5	e215	246	245	264	265	301	276	270	232	e220	221	293
6	e215	250	257	267	259	299	287	249	234	e220	214	260
7	e210	236	268	252	265	277	297	237	239	e220	221	247
8	e210	238	285	e235	265	274	280	249	240	e215	221	239
9	e210	237	265	e240	276	282	285	245	231	e215	225	239
10	e220	239	252	e263	249	272	279	245	232	e220	232	238
11	224	236	239	e276	246	267	277	242	233	e210	231	231
12	235	230	244	e274	380	276	279	246	227	e210	229	235
13	235	246	e230	e270	773	270	286	243	234	e205	227	234
14	237	237	255	e253	275	267	284	242	240	e205	229	235
15	235	233	289	e266	263	278	564	245	233	213	238	248
16	231	240	360	e277	248	351	278	241	228	219	278	249
17	238	243	239	e280	244	316	237	248	235	227	351	253
18	249	241	215	e271	237	294	263	248	230	220	240	260
19	246	240	230	e254	229	265	316	246	231	325	243	266
20	253	224	237	e262	230	262	282	224	232	e225	612	274
21	247	224	242	e282	227	262	271	235	244	e215	325	275
22	236	231	256	e246	231	270	266	231	238	e215	246	274
23	240	244	256	e319	229	274	290	237	237	e210	239	262
24	245	245	265	324	234	264	308	237	234	e245	237	256
25	246	243	243	314	303	279	258	242	229	e255	241	256
26	275	241	250	303	744	279	255	241	223	e250	260	249
27	310	256	264	293	278	277	254	242	237	e235	290	246
28	280	296	267	289	402	273	254	242	238	e220	298	249
29	255	294	267	318	--	283	247	242	238	230	237	280
30	253	286	265	281	--	280	240	241	233	229	239	270
31	240	--	273	275	--	297	--	238	--	285	242	--
TOTAL	7370	7363	8076	8501	8439	8903	8551	7607	7011	7058	8046	7750
MEAN	238	245	261	274	301	287	285	245	234	228	260	258
MAX	310	296	360	324	773	351	564	277	244	325	612	360
MIN	210	224	215	235	227	262	237	224	223	205	214	231
AC-FT	14620	14600	16020	16860	16740	17660	16960	15090	13910	14000	15960	15370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)

	94.4	94.7	100	101	107	101	91.3	85.2	77.6	98.3	101	100
MEAN	94.4	94.7	100	101	107	101	91.3	85.2	77.6	98.3	101	100
MAX	238	245	261	274	301	287	285	245	234	272	282	290
(WY)	2003	2003	2003	2003	2003	2003	2003	2003	2003	2002	2002	2002
MIN	51.6	54.5	57.0	60.4	57.0	49.2	44.2	39.9	35.7	27.3	33.5	38.0
(WY)	1971	1970	1970	1970	1970	1972	1971	1972	1974	1971	1969	1970

SUMMARY STATISTICS

	FOR 2003 WATER YEAR		WATER YEARS 1969 - 2003	
ANNUAL TOTAL	94675			
ANNUAL MEAN	259		93.7	
HIGHEST ANNUAL MEAN			259	
LOWEST ANNUAL MEAN			48.6	
HIGHEST DAILY MEAN	773		Feb 13	
LOWEST DAILY MEAN	205		Jul 13	
ANNUAL SEVEN-DAY MINIMUM	211		Jul 9	
MAXIMUM PEAK FLOW	1800		Feb 26	
MAXIMUM PEAK STAGE	6.85		Feb 26	
ANNUAL RUNOFF (AC-FT)	187800		67900	
10 PERCENT EXCEEDS	293		122	
50 PERCENT EXCEEDS	247		84	
90 PERCENT EXCEEDS	224		48	

e Estimated

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION--Lat 36°00'58", long 114°44'13", in NE 1/4 SW 1/4 sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010005, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--171,700 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--Contents: February 1935 to current year. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft to Local Powerhouse datum.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began February 1, 1935; dam completed March 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use April 1, 1967), 29,755,000 acre-ft, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 895.0 ft--gate sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,221.4 ft (top of automatic spillway gates in raised position); uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, power development, and recreation. Figures given herein represent usable contents. See schematic diagram of Colorado River Basin.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft, July 29, 30, 1941 (on basis of original bathymetry), gage height, 1,220.45 ft; maximum gage height, 1,225.85 ft, July 24, 1983 (equivalent to 26,868,000 acre-ft on basis of resurveyed bathymetry of 1963-64); minimum contents (since 1940), 10,695,000 acre-ft, April 26, 1956, gage height, 1,083.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,099,000 acre-ft, October 1, gage height 1,155.47 ft; minimum, 15,598,000 acre-ft, July 31, gage height, 1,141.93 ft.

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17099	17025	16848	16723	16855	16977	16811	16275	15893	15716	15607	15753
2	17089	17025	16839	16728	16856	16985	16802	16261	15888	15709	15619	15755
3	17091	17021	16849	16732	16855	16978	16797	16264	15890	15708	15632	15753
4	17084	17009	16837	16745	16852	16977	16775	16259	15886	15710	15633	15736
5	17085	17006	16834	16753	16846	16984	16774	16257	15897	15714	15634	15734
6	17084	17002	16832	16761	16840	16991	16758	16238	15876	15711	15634	15739
7	17081	17001	16830	16762	16837	16993	16741	16214	15876	15716	15640	15740
8	17078	16990	16829	16758	16841	16996	16719	16190	15872	15726	15641	15739
9	17076	16997	16826	16758	16851	16997	16691	16176	15868	15717	15634	15737
10	17073	16996	16824	16763	16851	16991	16667	16169	15863	15705	15630	15736
11	17071	16997	16822	16766	16854	16991	16645	16157	15850	15693	15640	15724
12	17075	16990	16812	16779	16857	16986	16634	16143	15839	15691	15640	15726
13	17070	16985	16809	16787	16862	16977	16626	16123	15824	15687	15637	15727
14	17069	16978	16814	16796	16874	16973	16607	16113	15812	15679	15648	15723
15	17066	16970	16798	16802	16888	16971	16598	16096	15807	15670	15671	15723
16	17061	16971	16795	16808	16892	16985	16578	16075	15791	15656	15679	15716
17	17061	16969	16790	16807	16907	16975	16565	16070	15782	15647	15687	15715
18	17062	16963	16796	16815	16912	16975	16544	16073	15777	15648	15688	15698
19	17061	16962	16781	16821	16922	16967	16521	16058	15783	15658	15685	15683
20	17055	16951	16769	16823	16923	16960	16513	16040	15788	15652	15688	15676
21	17050	16938	16769	16833	16931	16947	16491	16010	15797	15646	15697	15666
22	17038	16924	16763	16837	16944	16943	16469	15987	15796	15641	15708	15655
23	17028	16920	16756	16842	16948	16944	16431	15972	15790	15635	15709	15649
24	17022	16911	16753	16838	16945	16940	16409	15974	15770	15634	15717	15650
25	17028	16891	16747	16843	16950	16924	16380	15981	15755	15631	15712	15647
26	17036	16873	16741	16851	16952	16913	16368	15982	15745	15640	15715	15642
27	17039	16858	16729	16851	16968	16898	16350	15964	15741	15637	15724	15640
28	17034	16853	16734	16851	16978	16873	16326	15936	15739	15626	15729	15639
29	17034	16856	16738	16851	---	16857	16303	15914	15735	15616	15730	15629
30	17028	16850	16736	16854	---	16844	16287	15896	15733	15606	15747	15618
31	17032	---	16718	16854	---	16826	---	15893	---	15598	15741	---
MAX	17099	17025	16849	16854	16978	16997	16811	16275	15897	15726	15747	15755
MIN	17022	16850	16718	16723	16837	16826	16287	15893	15733	15598	15607	15618
*	1154.89	1153.30	1152.13	1153.33	1154.42	1153.09	1148.27	1144.68	1143.19	1141.93	1143.27	1142.12
#	-61000	-182000	-132000	+136000	+124000	-152000	-539000	-394000	-160000	-135000	+143000	-123000
##	41714	31713	27942	30609	26996	31761	39053	40570	46080	48940	46551	40346

CAL YR 2002 MAX 19879 MIN 16718 # -3077000 ## 464654
WTR YR 2003 MAX 17099 MIN 15598 # -1475000 ## 452541

* Gage height, in feet, at end of month.

Change in contents, in acre-feet.

Diversions, in acre-feet.

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'55", long 114°44'16", in NE 1/4 SW 1/4 sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW 1/4 NE 1/4 sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year (prior to April 1934, monthly discharge only, published in WSP 1313). Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Acoustical velocity meters on each turbine in Hoover Dam. Prior to November 1, 1939, water-stage recorder at site 9 mi downstream at datum 594.8 ft above NGVD of 1929. November 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi downstream at datum 600.35 ft above NGVD of 1929. July 1, 1958, to November 7, 1979, totalizing flowmeter on each turbine.

REMARKS.--Flow regulated by Hoover Dam on Lake Mead since February 1, 1935. Many diversions above station for irrigation, industrial, and municipal use. See schematic diagram of Colorado River Basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50,800 ft³/s, July 29, 1983, no flow at Hoover Dam part of February 10, 1935; minimum daily, 152 ft³/s, February 10, 1935.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6010	10000	9060	6600	9720	11700	18500	18000	10800	18500	10500	11100
2	6880	7330	12200	7410	12700	13000	14200	15800	13000	13900	8570	10600
3	8640	9480	11300	8600	13100	15700	17700	10200	9740	16200	8970	10800
4	9500	11700	12100	5530	14800	12700	19400	12900	11900	12900	13900	12700
5	7480	9470	10200	8670	14000	10600	13800	13900	12100	13200	13000	12000
6	7530	7800	12500	9010	15100	10200	19400	19600	20200	12100	9260	6450
7	9680	6930	10700	12300	12700	10600	20000	20300	15100	9540	11600	6410
8	8520	11400	10200	12900	10700	12800	21000	17800	16400	8890	12700	7720
9	8770	7510	12500	13500	9060	13300	21600	18000	14300	14500	18100	6190
10	8170	7000	11600	13700	12100	15000	20500	15000	12800	18500	17400	8460
11	9370	7840	11800	10300	12100	13700	20300	17200	16600	18700	10600	10800
12	5740	11100	12200	8030	13500	16000	16300	19400	17500	18300	12000	8140
13	8010	10400	12300	7460	12300	17000	14300	17800	21700	14500	12700	6520
14	10100	10400	10100	9050	7270	14200	19900	16300	20000	19500	8460	7100
15	9240	11800	11400	10300	6870	11500	18300	17200	17000	18400	9500	8910
16	9600	7410	10600	11200	10000	11000	19400	21400	21400	19200	7860	10700
17	7290	11400	10600	11300	8390	15200	16000	14200	16300	17400	10600	8620
18	7490	7750	12800	9630	10400	17500	21200	11000	15000	13400	13900	13000
19	9060	8990	15100	11000	10300	16800	21200	17300	10000	12100	12400	14100
20	9060	12200	16500	11500	11900	17800	13000	18000	9930	16600	12800	11500
21	10800	14400	10000	9640	8110	20100	18800	21100	8160	16300	12600	11200
22	12000	14700	12900	12200	7400	16300	22500	21800	14100	15100	13100	13000
23	13300	10800	13400	11700	9800	11300	24500	21600	15100	17400	13900	9620
24	10200	13900	13000	12600	13600	15600	23700	8020	21100	14400	11600	6880
25	5770	15100	10100	10400	14400	18800	22100	6760	19700	15400	16800	9640
26	4750	14800	14900	11100	11800	18300	18000	9720	18200	11600	11500	10700
27	7440	14700	13600	11800	7500	22100	15800	18200	17100	16500	9220	8840
28	9750	11000	6620	12700	6810	22700	21100	21500	14900	15500	13300	7410
29	9230	8540	9020	13700	---	22300	20600	21700	14600	22000	12400	12600
30	8660	9280	12500	11600	---	18200	20600	19900	18100	18000	8870	13000
31	6590	---	16600	13100	---	20700	---	11100	---	17800	17100	---
TOTAL	264630	315130	368400	328530	306430	482700	573700	512700	462830	486330	375210	294710
MEAN	8536	10500	11880	10600	10940	15570	19120	16540	15430	15690	12100	9824
MAX	13300	15100	16600	13700	15100	22700	24500	21800	21700	22000	18100	14100
MIN	4750	6930	6620	5530	6810	10200	13000	6760	8160	8890	7860	6190
AC-FT	524900	625100	730700	651600	607800	957400	1138000	1017000	918000	964600	744200	584600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2003, BY WATER YEAR (WY)

MEAN	11680	11600	12030	12270	12660	14900	15990	16340	15690	15480	14950	13140
MAX	34250	30530	33670	32700	30680	28790	26290	33330	34890	41870	39390	36750
(WY)	1984	1942	1942	1942	1984	1984	1984	1986	1984	1983	1983	1983
MIN	3109	3519	4444	3540	1106	5474	7297	8898	9786	2783	2631	3312
(WY)	1935	1935	1935	1979	1993	1993	1935	1937	1940	1934	1934	1934

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1934 - 2003	
ANNUAL TOTAL	5267390		4771300			
ANNUAL MEAN	14430		13070		13960	
HIGHEST ANNUAL MEAN					30590	
LOWEST ANNUAL MEAN					7674	
HIGHEST DAILY MEAN	25400		Jun 27		24500	
LOWEST DAILY MEAN	4750		Oct 26		4750	
ANNUAL SEVEN-DAY MINIMUM	7460		Oct 25		7460	
ANNUAL RUNOFF (AC-FT)	10450000		9464000		10110000	
10 PERCENT EXCEEDS	20800		19500		21600	
50 PERCENT EXCEEDS	13700		12500		13400	
90 PERCENT EXCEEDS	8600		7780		6640	

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1940 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1939 to September 1944, October 1950 to September 1957, October 1967 to March 1970.

SPECIFIC CONDUCTANCE: October 1939 to July 1957, October 1977 to September 1987.

WATER TEMPERATURE: October 1941 to July 1957, October 1977 to September 1987.

REMARKS.--Samples collected at gaging station 0.3 mi downstream from Hoover Dam. Unpublished chemical analyses for period October 1939 to September 1940 available from the U.S. Geological Survey in Tucson, Arizona. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

COOPERATION.--Instantaneous-discharge data provided by Bureau of Reclamation, Boulder City, Nevada.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD SINCE OCTOBER 1977.--

SPECIFIC CONDUCTANCE: Maximum, 1,180 microsiemens/cm, June 10, 1980; minimum, 787 microsiemens/cm, April 20, 1987.

WATER TEMPERATURE: Maximum, 21.5 °C, July 23, 1983; minimum, 9.0 °C, January 10, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Turbid- ity, wat unf lab, Hach 2100AN NTU (99872)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	
														Calcium water, fltrd, mg/L (00915)
MAR	20...	1030 ENVIRONMENTAL	26600	1.1	.042	.028	741	6.4	62	7.6	948	--	12.5	
APR	30...	0945 ENVIRONMENTAL	20800	<1.0	.042	.028	740	7.2	71	7.8	987	--	13.0	
JUN	30...	0915 ENVIRONMENTAL	11600	<1.0	.039	.024	739	6.6	66	7.8	991	--	13.5	
SEP	04...	0930 ENVIRONMENTAL	7100	<1.0	.042	.027	740	6.2	63	7.6	960	30.0	14.5	
MAR	20...	73.5	25.9	3.91	86.0	139	120	146	76.3	.32	8.62	228	619	.15
APR	30...	72.7	26.8	4.29	88.9	137	126	153	77.1	.32	8.54	229	632	.15
JUN	30...	74.1	26.9	4.35	93.8	138	142	173	77.6	.4	9.07	228	632	.21
SEP	04...	73.2	27.4	4.42	81.5	139	140	171	78.4	.3	8.75	227	624	.17
MAR	20...	.20	<.04	.34	<.008	<.007	<.02	<.004	.004	<.1	<.1	<.1	2.5	<2
APR	30...	.17	<.04	.44	<.008	<.007	<.02	E.003	<.004	<.1	<.1	<.1	2.4	<2
JUN	30...	.18	<.04	.41	<.008	<.007	.02	<.004	E.004	.3	<.1	.3	2.3	<2
SEP	04...	.17	<.04	.35	<.008	<.007	<.02	E.004	.005	.1	<.1	.1	2.6	<2

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Anti- mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll- ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom- ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan- ese, water, fltrd, ug/L (01056)
MAR 20...	E.17	2.6	120	<.06	125	E.03	<.8	.19	1.5	<10	E.06	43.7	.4
APR 30...	<.60	2.7	127	<.06	132	<.04	<.8	.16	1.7	<10	<.08	47.3	.5
JUN 30...	E.25	2.2	124	<.06	122	.06	<.8	.17	1.3	<8	E.04	39.8	.3
SEP 04...	E.19	2.5	127	<.06	119	E.03	<.8	.22	2.9	<8	<.08	42.5	.4
Date	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	^a 2,4,5-T surrog, water, fltrd, percent recovery (99958)	2,4,5-T water, fltrd, ug/L (39742)	2,4-D water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Di- ethyl- aniline water fltrd 0.7u GF ug/L (82660)
MAR 20...	4.9	2.52	2.2	<.20	1050	3.0	2	--	<.07	--	<.16	<.25	<.006
APR 30...	5.0	3.26	2.3	<.40	1030	3.9	2	82.2	--	<.009	<.02	<.02	<.006
JUN 30...	4.7	2.93	1.8	<.20	1100	2.3	2	103	--	<.009	<.02	<.02	<.006
SEP 04...	4.9	1.59	2.2	<.20	1060	2.4	2	103	--	<.009	<.02	<.02	<.006
Date	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	2Methyl 4,6-di- nitro- phenol, wat flt 0.7u GF ug/L (49299)	3- Hydroxy carbo- furan, wat flt 0.7u GF ug/L (49308)	3-Keto- carbo- furan, water, fltrd, ug/L (50295)	Aceto- chlor, water, fltrd, ug/L (49260)	Aci- fluor- fen, water, fltrd, 0.7u GF ug/L (49315)	Ala- chlor, water, fltrd, ug/L (46342)	Aldi- carb sulfone water, fltrd 0.7u GF ug/L (49313)	Aldi- carb sulf- oxide, wat flt 0.7u GF ug/L (49314)	Aldi- carb, water, fltrd 0.7u GF ug/L (49312)	alpha- HCH, water, fltrd, ug/L (34253)
MAR 20...	<.006	--	--	<.25	<.11	--	<.006	<.05	<.004	<.20	<.27	<.21	<.005
APR 30...	<.006	<.04	<.008	--	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
JUN 30...	<.006	<.04	<.008	--	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
SEP 04...	<.006	<.04	<.008	--	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
Date	^a alpha- HCH-d6, surrog, wat flt 0.7u GF percent recovery (91065)	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	^a Barban, surrog, Sched. 2060/ 9060, wat flt pct rcv (90640)	^a BDMC, surrog, water, unfltrd percent recovery (99835)	Bendio- carb, water, fltrd, ug/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensul- furon, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd 0.7u GF ug/L (38711)	Broma- cil, water, fltrd, ug/L (04029)	Brom- oxynil, water, fltrd 0.7u GF ug/L (49311)	Butyl- ate, water, fltrd, ug/L (04028)
MAR 20...	89.7	E.003	<.050	--	E71.0	--	<.010	--	--	<.05	<.09	<.07	<.002
APR 30...	97.4	<.007	<.050	E154	--	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002
JUN 30...	87.0	<.007	<.050	136	--	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002
SEP 04...	99.1	E.005	<.050	126	--	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002

COLORADO RIVER MAIN STEM
09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Caf- feine, water, fltrd, ug/L (50305)	^a Caf- feine- 13C, surrog, wat flt percent (99959)	Car- baryl, water, fltrd 0.7u GF (49310)	Car- baryl, water, fltrd 0.7u GF (82680)	Carbo- furan, water, fltrd 0.7u GF (49309)	Carbo- furan, water, fltrd 0.7u GF (82674)	Chlor- amben methyl ester, water, fltrd, ug/L (61188)	Chlori- muron, water, fltrd, ug/L (50306)	Chloro- di- amino- s-tri- azine, wat flt ug/L (04039)	Chloro- thalo- nil, water, fltrd 0.7u GF (49306)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF (82687)	Clopyr- alid, water, fltrd 0.7u GF (49305)
MAR 20...	--	--	<.080	<.041	<.15	<.020	<.21	--	--	<.25	<.005	<.006	<.42
APR 30...	<.010	166	<.03	<.041	<.006	<.020	<.02	<.010	<.01	<.04	<.005	<.006	<.01
JUN 30...	<.010	61.9	<.03	<.041	<.006	<.020	<.02	<.010	<.01	<.04	<.005	<.006	<.01
SEP 04...	E.009	85.4	<.03	<.041	<.006	<.020	<.02	<.010	<.01	<.04	<.005	<.006	<.01
Date	Cyana- zine, water, fltrd, ug/L (04041)	Cyclo- ate, water, fltrd, ug/L (04031)	Dacthal mono- acid, water, fltrd 0.7u GF (49304)	DCPA, water fltrd 0.7u GF (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	^a Diazi- non-d10 surrog. wat flt percent 0.7u GF recovery (91063)	Dicamba water fltrd 0.7u GF (38442)	Dichlo- benil, water, fltrd ug/L (49303)	Di- chlor- prop, water, fltrd 0.7u GF (49302)	Diel- drin, water, fltrd, ug/L (39381)	Dinoseb water, fltrd 0.7u GF (49301)	Diphen- amid, water, fltrd, ug/L (04033)
MAR 20...	<.018	--	<.07	<.003	<.004	<.005	113	<.11	<.09	<.12	<.005	<.09	--
APR 30...	<.018	<.01	<.01	<.003	<.004	<.005	125	<.01	--	<.01	<.005	<.01	<.03
JUN 30...	<.018	<.01	<.01	<.003	<.004	<.005	113	<.01	--	<.01	<.005	<.01	<.03
SEP 04...	<.018	<.01	<.01	<.003	<.004	<.005	107	<.01	--	<.01	<.005	<.01	<.03
Date	Disul- foton, water, fltrd 0.7u GF (82677)	Diuron, water, fltrd 0.7u GF (49300)	EPTC, water, fltrd 0.7u GF (82668)	Ethal- flur- alin, water, fltrd 0.7u GF (82663)	Etho- prop, water, fltrd 0.7u GF (82672)	Fenuron water, fltrd 0.7u GF (49297)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide fltrd, ug/L (62167)	Fipro- nil sulfone fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Flumet- sulam, water, fltrd, ug/L (61694)	Fluo- meturon water fltrd 0.7u GF (38811)	Fonofos water, fltrd, ug/L (04095)
MAR 20...	<.02	<.12	<.002	<.009	<.005	<.07	<.009	<.005	<.005	<.007	--	<.06	<.003
APR 30...	<.02	E.03	<.002	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01	<.03	<.003
JUN 30...	<.02	E.01	<.002	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01	<.03	<.003
SEP 04...	<.02	<.01	<.002	<.009	<.005	<.03	<.009	<.005	<.005	<.007	<.01	<.03	<.003
Date	Imaza- quin, water, fltrd, ug/L (50356)	Imaze- thapyr, water, fltrd, ug/L (50407)	Imida- cloprid water, fltrd, ug/L (61695)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF (38478)	Linuron water fltrd 0.7u GF (82666)	Mala- thion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF (38482)	MCPB, water, fltrd 0.7u GF (38487)	Meta- laxyl, water, fltrd, ug/L (50359)	Methio- carb, water, fltrd 0.7u GF (38501)	Meth- omyl, water, fltrd 0.7u GF (49296)	Methyl para- thion, water, fltrd 0.7u GF (82667)
MAR 20...	--	--	--	<.004	<.06	<.035	<.027	<.20	<.26	--	<.07	<.22	<.006
APR 30...	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008	<.004	<.006
JUN 30...	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008	<.004	<.006
SEP 04...	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008	<.004	<.006

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Metsulfuron, water, fltrd, ug/L (61697)	Molinate, water, fltrd, 0.7u GF (82671)	N-(4-Chlorophenyl)-N'-methyl-urea, ug/L (61692)	Napropamide, water, fltrd, 0.7u GF (82684)	Neburon, water, fltrd, 0.7u GF (49294)	Nicosulfuron, water, fltrd, ug/L (50364)	Norflurazone, water, fltrd, 0.7u GF (49293)	Oryzalin, water, fltrd, 0.7u GF (49292)	Oxamyl, water, fltrd, 0.7u GF (38866)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)
MAR 20...	<.013	<.006	--	<.002	--	<.007	<.07	--	<.04	<.28	<.16	<.003	<.010
APR 30...	<.013	<.006	<.03	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01	<.003	<.010
JUN 30...	<.013	<.006	<.03	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01	<.003	<.010
SEP 04...	<.013	<.006	<.03	<.002	<.02	<.007	<.01	<.01	<.02	<.02	<.01	<.003	<.010

Date	Pebulate, water, fltrd, 0.7u GF (82669)	Pendimethalin, water, fltrd, 0.7u GF (82683)	Phorate, water, fltrd, 0.7u GF (82664)	Picloram, water, fltrd, 0.7u GF (49291)	Prometon, water, fltrd, ug/L (04037)	Pronamide, water, fltrd, 0.7u GF (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF (82679)	Propargite, water, fltrd, ug/L (82685)	Propham, water, fltrd, 0.7u GF (49236)	Propiconazole, water, fltrd, ug/L (50471)	Proxur, water, fltrd, 0.7u GF (38538)	Siduron, water, fltrd, ug/L (38548)
MAR 20...	<.004	<.022	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	--	<.12	--
APR 30...	<.004	<.022	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
JUN 30...	<.004	<.022	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02
SEP 04...	<.004	<.022	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02

Date	Silvex, water, fltrd, ug/L (39762)	Simazine, water, fltrd, ug/L (04035)	Sulfometuron, water, fltrd, ug/L (50337)	Tebuconazole, water, fltrd, 0.7u GF (82670)	Terbacil, water, fltrd, 0.7u GF (82665)	Terbacil, water, fltrd, ug/L (04032)	Terbufos, water, fltrd, 0.7u GF (82675)	Thiocarb, water, fltrd, 0.7u GF (82681)	Triallate, water, fltrd, 0.7u GF (82678)	Tri-clopyr, water, fltrd, 0.7u GF (49235)	Tri-fluralin, water, fltrd, 0.7u GF (82661)	Uranium natural water, fltrd, ug/L (22703)	Suspended sediment concentration, mg/L (80154)
MAR 20...	<.03	<.005	--	<.02	<.034	--	<.02	<.005	<.002	<.09	<.009	4.32	1
APR 30...	--	<.005	<.009	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009	4.47	1
JUN 30...	--	<.005	<.009	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009	4.41	3
SEP 04...	--	<.005	<.009	<.02	<.034	<.010	<.02	<.005	<.002	<.02	<.009	4.32	1

Date	Suspended sediment load, tons/d (80155)	Suspnd. sediment, sieve diametr <.063mm percent (70331)
MAR 20...	72	70
APR 30...	56	88
JUN 30...	94	83
SEP 04...	19	80

Remark codes used in this report:
 < -- Less than
 E -- Estimated value

^a Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW 1/4 SW 1/4 sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Arizona, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi west of Kingman, Az., and 67 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft between elevations 533.39 ft - lowest point of penstock outlet - and 647.0 ft - top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft below elevation 533.39 ft. Lake is used for power development, regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft, May 24, 1958, May 29, 1963, May 29, 1982; maximum elevation, 647.04 ft, May 29, 1963, May 29, 1982; minimum contents (since 1952), 1,168,000 acre-ft, September 8, 1953, elevation, 622.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,752,000 acre-ft February 13, elevation, 644.92 ft; minimum, 1,462,000 acre-ft November 19, elevation, 634.07 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

628	1,309,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1564000	1486000	1514000	1672000	1697000	1733000	1687000	1688000	1706000	1703000	1739000	1734000
2	1551000	1482000	1515000	1668000	1702000	1736000	1672000	1685000	1705000	1704000	1734000	1737000
3	1545000	1483000	1520000	1664000	1703000	1738000	1666000	1675000	1699000	1708000	1728000	1735000
4	1542000	1487000	1526000	1660000	1713000	1735000	1658000	1673000	1693000	1702000	1723000	1734000
5	1536000	1490000	1528000	1666000	1715000	1723000	1646000	1669000	1681000	1698000	1729000	1733000
6	1529000	1487000	1532000	1662000	1722000	1710000	1644000	1676000	1689000	1695000	1725000	1725000
7	1525000	1484000	1538000	1668000	1721000	1703000	1641000	1682000	1683000	1679000	1719000	1715000
8	1519000	1485000	1543000	1675000	1724000	1698000	1647000	1688000	1679000	1670000	1716000	1706000
9	1513000	1485000	1548000	1680000	1724000	1699000	1652000	1694000	1672000	1673000	1723000	1695000
10	1509000	1480000	1556000	1688000	1726000	1695000	1656000	1693000	1669000	1678000	1736000	1692000
11	1512000	1480000	1562000	1690000	1731000	1689000	1657000	1691000	1673000	1680000	1726000	1688000
12	1505000	1478000	1567000	1688000	1744000	1694000	1650000	1693000	1675000	1684000	1723000	1683000
13	1504000	1477000	1571000	1679000	1752000	1700000	1641000	1698000	1686000	1683000	1726000	1676000
14	1503000	1475000	1572000	1675000	1746000	1693000	1646000	1698000	1696000	1693000	1718000	1670000
15	1504000	1477000	1580000	1682000	1744000	1684000	1643000	1703000	1699000	1700000	1711000	1662000
16	1504000	1471000	1580000	1690000	1749000	1679000	1644000	1712000	1710000	1713000	1707000	1660000
17	1500000	1473000	1581000	1683000	1750000	1676000	1638000	1711000	1710000	1712000	1703000	1660000
18	1495000	1465000	1588000	1679000	1751000	1679000	1643000	1702000	1708000	1708000	1704000	1661000
19	1495000	1462000	1596000	1680000	1749000	1676000	1647000	1704000	1692000	1700000	1703000	1670000
20	1496000	1465000	1611000	1684000	1751000	1677000	1638000	1705000	1679000	1708000	1712000	1673000
21	1495000	1472000	1614000	1683000	1740000	1682000	1635000	1714000	1667000	1704000	1718000	1674000
22	1504000	1479000	1624000	1686000	1738000	1680000	1644000	1727000	1662000	1699000	1718000	1676000
23	1513000	1481000	1634000	1690000	1733000	1672000	1660000	1739000	1657000	1710000	1720000	1671000
24	1515000	1490000	1641000	1695000	1733000	1671000	1671000	1722000	1671000	1704000	1721000	1660000
25	1505000	1500000	1648000	1693000	1742000	1674000	1677000	1703000	1685000	1709000	1735000	1658000
26	1495000	1508000	1658000	1695000	1742000	1674000	1680000	1692000	1694000	1700000	1735000	1659000
27	1495000	1515000	1665000	1693000	1735000	1680000	1678000	1697000	1696000	1708000	1729000	1651000
28	1493000	1518000	1658000	1696000	1729000	1683000	1682000	1707000	1694000	1712000	1731000	1642000
29	1495000	1511000	1659000	1701000	---	1687000	1682000	1722000	1696000	1724000	1733000	1641000
30	1495000	1516000	1662000	1701000	---	1687000	1685000	1726000	1698000	1739000	1727000	1641000
31	1485000	---	1676000	1703000	---	1686000	---	1714000	---	1743000	1738000	---
MAX	1564000	1518000	1676000	1703000	1752000	1738000	1687000	1739000	1710000	1743000	1739000	1737000
MIN	1485000	1462000	1514000	1660000	1697000	1671000	1635000	1669000	1657000	1670000	1703000	1641000
(*)	634.97	636.15	642.17	643.15	644.10	642.54	642.51	643.54	642.99	644.59	644.44	640.86
(**)	-92000	+31000	+160000	+27000	+26000	-43000	-1000	+29000	-16000	+45000	-5000	-97000

CAL YR 2002 MAX 1742000 MIN 1462000 (**) +22000
WTR YR 2003 MAX 1752000 MIN 1462000 (**) +64000

(*) Elevation, in feet, at end of month.
(**) Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE 1/4NE 1/4 sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Clark County, Nevada, Hydrologic Unit 15030101, on right bank, 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, Az., and 68 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

REVISED RECORDS.--WDR AZ-86-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, NGVD of 1929; gage readings have been reduced to elevations NGVD of 1929 since October 1, 1967. 1905-7, nonrecording gage at site 4.8 mi downstream at datum about 3.4 ft lower. March 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to February 24, 1956, water-stage recorder at site 400 ft upstream at datum 10.00 ft higher. February 25, 1956, to September 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--No estimated daily discharge. Records excellent. Flow regulated by Lake Mead since February 1, 1935, and by Lake Mohave since January 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft³/s, June 20, 1906; minimum daily, 2,850 ft³/s, January 5, 1906. 1949-2002: Maximum discharge, 46,200 ft³/s, July 2, 1983, elevation, 509.48 ft; maximum elevation, 513.91 ft, April 22, 1952; no flow at Davis Dam parts of several days July to September 1950 and December 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s, August 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,100 ft³/s April 20, elevation, 505.27 ft; minimum daily, 3,590 ft³/s October 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14800	10800	11100	9820	13000	11000	21200	18400	16300	17200	14100	13400
2	13900	9820	11200	10200	12300	11000	22300	18000	14400	13500	12200	12000
3	12700	9760	10500	11000	12300	15200	22600	17100	14500	14200	12100	11900
4	12800	9290	9770	9820	10800	15900	22600	15500	15900	17000	17400	12400
5	11300	9190	9610	9130	12500	17400	22600	18000	18200	16400	12100	12500
6	11200	9170	10600	8830	15000	17600	22500	17000	18100	16500	11900	12500
7	13900	9290	9390	9070	11300	17400	22400	16100	18600	16500	14600	12400
8	12600	10500	7810	9410	10400	14500	19900	15900	18800	15500	14400	12300
9	11500	10100	9660	11200	11700	15600	19700	16000	19500	14900	14800	12300
10	10200	10100	9110	10600	11300	17600	20000	17900	15700	17100	15000	12400
11	9960	10100	8890	10500	8650	17700	20600	19000	16100	17200	14300	12400
12	9870	11700	10000	10500	8620	14600	21000	19000	16300	16600	14600	12400
13	9830	12000	9970	11800	10000	15200	21200	16500	15800	17000	12200	11300
14	10000	11900	9560	10400	10500	17500	20700	16300	16100	16700	13100	11400
15	9840	11900	9560	9760	9890	17200	20800	16000	16700	15200	13300	12600
16	9850	11900	10700	7270	8010	15900	20300	16900	16600	14100	14100	12800
17	10200	11500	10700	14800	9230	17200	20100	16900	17600	16900	13400	11200
18	10900	12000	10600	12700	9970	18100	20800	16200	17400	16900	13000	11200
19	10400	11900	10600	10900	11900	18900	20200	17300	17600	16800	11800	11100
20	10400	11500	9890	10300	11400	20500	19700	18500	16000	15300	10800	11100
21	10500	11500	9180	10800	13000	18700	19800	17200	16400	16900	10900	11500
22	9170	11500	8480	11100	11800	18700	18800	16200	17800	18400	13700	11800
23	8920	10400	8540	9780	13300	18000	18700	16800	17500	14600	13800	12500
24	9650	10400	8600	11300	13500	17900	18600	17100	16800	16700	12200	13200
25	11600	11400	8640	12300	13100	18700	18600	17800	12600	16700	11100	12500
26	9880	11500	9670	11300	12500	20200	18500	17500	14900	15700	12100	12500
27	9830	9800	10000	12000	12400	20300	18500	16800	16200	14600	12800	13200
28	9770	10400	9920	12400	11000	20600	20500	16000	16500	14200	12800	13700
29	9670	11000	10900	11800	--	20700	21900	16500	15900	14100	12800	13700
30	9900	11000	10300	11800	--	20900	18700	17200	17100	13700	12800	15100
31	11000	--	9880	13200	--	20300	--	17600	--	15800	13400	--
TOTAL	336040	323320	303330	335790	319370	541000	613800	529200	497900	492900	407600	371300
MEAN	10840	10780	9785	10830	11410	17450	20460	17070	16600	15900	13150	12380
MAX	14800	12000	11200	14800	15000	20900	22600	19000	19500	18400	17400	15100
MIN	8920	9170	7810	7270	8010	11000	18500	15500	12600	13500	10800	11100
AC-FT	666500	641300	601700	666000	633500	1073000	1217000	1050000	987600	977700	808500	736500
CAL YR 2002	TOTAL 5454530	MEAN 14940	MAX 21200	MIN 7810	AC-FT 10820000							
WTR YR 2003	TOTAL 5071550	MEAN 13890	MAX 22600	MIN 7270	AC-FT 10060000							