09404200 COLORADO RIVER ABOVE DIAMOND CREEK NEAR PEACH SPRINGS, AZ

LOCATION.--Lat 35°46'25", long 113°21'46", sec. 33, T.28 N., R.10 W., unsurveyed, Mohave County, Hydrologic Unit 15010002, in Lake Mead National Recreation Area, on the right bank, 0.6 mi upstream from Diamond Creek, 138 mi downstream from Phantom Ranch, 25 mi north of Peach Springs, 242 mi downstream from Glen Canyon Dam, and 130 mi upstream from Hoover Dam.

DRAINAGE AREA.--149,316 mi^2, including 3,959 mi^2 in Great Divide basin in southern Wyoming, and 697 mi^2 on the Colorado Plateau, which are noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to Dec. 1983, Sept. 1985 to Feb. 1986, Oct. 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,340 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated since Mar. 13, 1963, by Lake Powell 242 mi upstream. Many diversions above Lake Powell for irrigation, municipal, and industrial use. Several unregulated tributaries below Glen Canyon Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 97,000 ft^3/s, June 30, 1983, gage height, unknown; minimum 3,710 ft^3/s, Mar. 21, 1990, gage height, 43.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1868, about 300,000 ft^3/s, about July 8, 1884, based on flow studies at Lees Ferry.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,300 ft^3/s Nov. 23 at 2200, gage height, 57.73 ft. Minimum daily discharge, 7,940 ft^3/s Oct. 12

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10100	8390	9000	10800	10300	11000	15500	9460	9340	15200	14200	15800
2	10100	8450	8880	11400	15900	16500	15200	9270	9240	15300	12900	13900
3	10700	9050	10700	9890	16100	16900	15500	10500	14000	15200	15600	13200
4	9300	8980	10700	10500	15700	16400	15500	12000	14700	14200	15700	11600
5	9000	8800	10100	18800	15500	15900	9130	12200	15000	13600	15700	9570
6	9110	8830	8900	17400	15400	15700	14900	12300	13700	13600	15700	9170
7	9270	8890	9200	16500	15500	15700	16000	12500	13500	15000	15500	9090
8	9260	8560	10700	16700	9040	9230	16000	12400	14700	15200	14400	9010
9	9230	9950	10700	17500	14300	14700	16100	12100	14800	15200	14000	8960
10	8830	9760	10700	19000	15000	15700	16100	10800	14800	15200	17100	8940
11	7970	10200	10700	13300	15400	16000	10000	12000	14800	14300	16200	8890
12	7940	9340	10700	19100	17400	16000	9070	12200	15000	13600	16500	8840
13	8330	9230	10500	20900	16500	16100	9090	12100	13700	15100	16400	8870
14	8200	9280	10300	18400	16900	16100	9090	12100	13300	15400	16100	8860
15	8700	9290	10600	16900	9880	9780	9030	12100	14600	15500	15300	9010
16	8690	9070	10600	16800	16300	15500	9100	12000	14700	15500	14600	9000
17	e8750	9060	10600	16400	18600	16600	9180	11000	14600	15400	15900	8940
18	e8110	9030	10600	9590	20800	17100	9230	12200	14700	14400	16300	8970
19	e8220	8290	10600	14900	20500	17000	9300	12400	15200	13700	16200	8930
20	e9150	8760	10400	15700	18300	16400	9470	12300	13800	15300	16200	8950
21	9540	9020	10300	15600	17700	15900	9510	12400	13700	15300	16400	8930
22	10500	13000	10500	15400	11200	9330	9370	12300	15200	15300	14500	8970
23	10000	40100	10600	15200	17800	14700	9310	12100	15400	15200	13400	8890
24	9840	43700	10500	15300	20500	15500	9340	10900	14200	15300	15400	8800
25	8530	43600	10700	8930	21900	15500	9560	12000	15400	14300	15500	8760
26	8360	30400	10700	14400	19700	15900	9600	12200	12100	14400	15600	8780
27	9140	13800	10300	15800	18400	15800	9500	12100	9640	15300	16200	9230
28	10100	9600	10400	16200	18400	15700	9470	11300	10600	15200	16200	9410
29	10100	9280	10900	16300	---	9320	9640	9710	14200	15300	15200	9440
30	9470	9130	11400	15900	---	14800	9730	9430	14900	15300	13600	9040
31	9220	---	11200	16400	---	15500	---	9350	---	15100	15900	---
TOTAL	283760	402840	322680	475910	458920	462260	337520	357720	413520	461900	478400	288750
MEAN	9154	13430	10410	15350	16390	14910	11250	11540	13780	14900	15430	9625
MAX	10700	43700	11400	20900	21900	17100	16100	12500	15400	15500	17100	15800
MIN	7940	8290	8880	8930	9040	9230	9030	9270	9240	13600	12900	8760
AC-FT	562800	799000	640000	944000	910300	916900	669500	709500	820200	916200	948900	572700

CAL YR 2004 TOTAL 4658190 MEAN 12730 MAX 43700 MIN 7940 AC-FT 9240000
WTR YR 2005 TOTAL 4744180 MEAN 13000 MAX 43700 MIN 7940 AC-FT 9410000

e Estimated

09404200 COLORADO RIVER ABOVE DIAMOND CREEK NEAR PEACH SPRINGS, AZ—CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1983 to Dec. 1983, Sept. 1985 to Feb. 1985, Sept. 1989 to Apr. 1993, and Nov. 1996 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Aug. 1990 to Apr. 1993.
pH: Aug. 1990 to Apr. 1993.
WATER TEMPERATURE: Aug. 1990 to Apr. 1993.
DISSOLVED-OXYGEN CONCENTRATION: Aug. 1990 to Apr. 1993.
SUSPENDED-SEDIMENT DISCHARGE: Aug. 1990 to Apr. 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
NOV													
03...	1130	8670	64	.052	.035	735	11.7	114	7.8	972	10.0	12.5	300
22...	1230	9510	29	.050	.033	729	9.3	93	8.2	972	11.6	13.2	300
23...	1420	42900	810d	.064	.045	729	9.2	92	7.7	973	15.8	13.2	280
DEC													
01...	1150	9000	1300d	.056	.039	733	10.2	95	7.5	983	6.0	10.3	280
JAN													
26...	1445	17100	62	.059	.042	728	10.4	97	7.7	930	14.0	10.3	290
APR													
21...	1145	8840	86	.043	.033	732	8.7	89	7.9	949	25.0	14.5	290
SEP													
07...	1030	8630	19	.072	.050	722	8.5	100	7.9	832	34.0	20.2	280

Date	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
NOV													
03...	160	78.2	26.1	4.20	2	90.9	148	181	<1	.02	84.6	.3	6.91
22...	160	74.4	27.2	4.08	2	91.3	143	174	<1	<.20d	87.6	.3	6.68
23...	130	71.0	25.1	4.28	2	86.1	149	180	<1	<.20d	77.7	.3	6.33
DEC													
01...	120	72.7	23.0	4.10	3	95.9	157	190	<1	<.04d	85.8	.3	7.19
JAN													
26...	150	74.3	25.8	4.09	2	79.6	146	176	<1	E.02n	69.0	.3	6.80
APR													
21...	130	76.0	24.7	3.70	2	83.8	165	200	<1	--	83.2	.3	7.11
SEP													
07...	130	70.4	23.9	3.41	2	70.0	146	175	2	.22	68.2	.3	6.70

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV													
03...	224	607	.85	625	.18	.26	E.005n	.398	.002	.10	.58	.66	E.003n
22...	218	597	.85	622	.15	.20	<.010	.312	E.001n	.06	.46	.51	<.006
23...	224	586	.84	618	.27	1.6	.098	.333	.002	1.21	.60	1.9	<.006
DEC													
01...	215	600	.83	610p	.20	.79	E.005n	.362	E.001n	.49	.56	1.1	E.004n
JAN													
26...	214	563	.80	588	.18	.26	E.005n	.399	E.001n	.13	.58	.66	<.006
APR													
21...	197	577	.80	585d	.16	.26	<.010	.400	E.001n	.16	.56	.66	<.006
SEP													
07...	172	505	.72	532	.25	.20	<.010	.488	<.002	.06	.74	.69	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Phos-phorus, water, fltrd, mg/L (00666)	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)	Alum-inum, water, fltrd, ug/L (01106)	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)
NOV													
03...	E.002n	.058	2.4	.5	2.0	3.1	2	.40	2.1	127	<.06	109	E.03n
22...	<.004	.042	2.9	.6	2.3	3.1	2	.41	1.6	120	<.06	100	<.04
23...	.005	1.40oc	57.6r	53.8r	3.8	3.7	3	.40	1.0	179r	<.06	101	<.04
DEC													
01...	.007	.79oc	10.4r	4.1	6.3	3.4	4	.21	1.3	167	<.06	64	E.03n
JAN													
26...	E.003n	.162	4.6	3.6	1.0	3.0	E1n	.38	2.0	120	<.06	103	<.04
APR													
21...	.007	E.067	5.6	1.9	3.8	3.2	2	.35	1.8	112	<.06	109	<.04
SEP													
07...	E.003n	.024	1.0	<.1	.9	3.3	3	.45	1.7oc	119	<.06	97	<.04

Date	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)	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)
NOV													
03...	<.8	.187	2.1	<6	E.05n	40.9	.3	5.0	1.00p	2.4	<.2	916p	1.8
22...	<.8	.202	1.7	<6c	<.08	47.7p	.4	4.9	2.14	1.7	<.2	619	1.6
23...	<.8	.369	1.6	<6	<.08	41.9	9.9p	5.4	2.46	2.2	<.2	955	1.3
DEC													
01...	<.8	.190	1.5p	<6	<.08p	23.4	.4	3.0	2.10	1.4	<.2	651	2.0
JAN													
26...	<.8	.247	1.9	<6	<.08	42.4	1.4	5.6	2.67	2.5	<.2	927	1.7
APR													
21...	<.8	.146	1.2	<6	<.08	36.3	.5	4.5	4.53cr	2.0	<.2	819	1.7
SEP													
07...	.05oc	.05oc	1.0oc	<6	<.08	41.4	.8	4.6	1.1oc	1.7oc	<.2	738	1.4oc

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
NOV					
03...	3.8p	4.07	93	146	3420
22...	1.0	4.20	89	99	2540
23...	1.0	4.76	64	3770	436000
DEC					
01...	1.1p	2.89	96	1560	37800
JAN					
26...	1.0	4.08	62	455	21000
APR					
21...	1.6r	3.87	91	154	3680
SEP					
07...	.94oc	3.33	75	60	1400

Remark codes used in this table:
< -- Less than.
E -- Estimated.
Value qualifier codes used in this table:
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
p -- Value reported is preferred
r -- Value verified by rerun, same method

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Water-quality measurements in the following table were made as part of the National Stream-Quality Accounting Network. The following analyses are quality-assurance samples processed during the 2005 sampling period and are defined in the introductory text section titled "Water-Quality Control Data".

Date	Time	Sample type	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Silica, water, fltrd, mg/L (00955)	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)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV													
03...	1138	2	<.004	<.004	E.01n	<.008	<.20	.07	<.010	<.016	<.002	<.02	E.004n

Date	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
NOV													
03...	<.1	<.1	<.1	.7r	<2	<.20	<.2	.2	<.06	<8	<.04	<.8	<.014

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Thallium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
NOV													
03...	<.4	<6	<.08	<.6	<.2	<.4	<.06p	<.4	<.2	<.40	<.04	<.1	.7

Date	Uranium natural water, fltrd, ug/L (22703)
NOV	
03...	<.04

Remark codes used in this table:
< -- Less than.
E -- Estimated.
M -- Presence verified but not quantified.
Value qualifier codes used in this table:
n -- Below the LRL and above the LT-MDL
p -- Value reported is preferred
r -- Value verified by rerun, same method