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U.S. Department of Interior

Bureau of Reclamation

(199)

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Date: March 26, 2001 No. of Pages: 11
(Include cover)

To: Teresa Newkirk Code:
State Water Resources Control Board

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From: Frank Macaluso Code: YAO-6210
Operations Division Ext.: # 8302
River Scheduling

Comments:

If you need further assistance, please call me at (520) 343-8302 or I can be reached by e-mail at fmacaluso@lc.usbr.gov.

These are 10 pages from the USGS Water Resources Data Book for Arizona in the year 1999. It's our latest book. USGS is the official data keeper for surface water quality in our region. If this data is what you are looking for, I will get you in contact with USGS in our region. They can send you an annual data book for your needs.

Teresa, I hope this helps you.

Regards.

Region 7 –
Additional
hardcopy data

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA--Continued

WATER-QUALITY RECORDS

LOCATION.--Water samples collected below trash racks at All-American Canal headworks at west end of Imperial Dam.

PERIOD OF RECORD.--August 1969 to September 1982, August 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1968 to current year.
WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,970 microsiemens Aug. 23, 1977, Jan. 12, 13, 1995; minimum observed, 866 microsiemens Sept. 12, 1956.
WATER TEMPERATURES: Maximum observed, 33.0°C Aug. 20, 1977, Aug. 28, 29, 1981; minimum recorded, 6.5°C Dec. 25, 26, 1990.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,350 microsiemens Feb. 12; minimum recorded, 953 microsiemens Jan. 6.
WATER TEMPERATURES: Maximum recorded, 30.0°C July 16; minimum recorded, 10.5°C Jan. 10.

INSTRUMENTATION.--Specific conductance and water-temperature recorder October 1982 to current year.

REMARKS.--No record for specific conductance from Oct. 1 to Dec. 4 due to equipment failure. No record for temperature from Oct. 1 to Jan. 8 and from Aug. 6 to Sept. 30 due to equipment failure. More than 10% missing record.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC										
16...	0900	ENVIRONMENTAL	16500	1020	8.2	21.0	12.2	3.2	775	9.8
16...	0910	CONCURRENT REPLICATE	16500	--	--	21.0	12.3	--	--	--
MAR										
24...	1000	ENVIRONMENTAL	11300	1080	8.4	24.0	17.5	3.1	760	9.3
24...	1010	CONCURRENT REPLICATE	11300	--	--	24.0	17.5	--	--	--
APR										
28...	0930	ENVIRONMENTAL	11800	1060	8.2	25.0	21.0	4.5	760	8.6
28...	0940	CONCURRENT REPLICATE	11800	--	--	25.0	21.0	--	--	--
MAY										
26...	0930	ENVIRONMENTAL	10700	1130	8.2	32.0	25.0	4.0	760	7.9
26...	0940	CONCURRENT REPLICATE	10700	1120	8.2	32.0	25.0	4.1	760	7.9
JUN										
30...	0930	ENVIRONMENTAL	11400	1060	8.2	36.0	28.0	2.5	757	7.5
30...	0940	CONCURRENT REPLICATE	11400	--	--	36.0	28.0	--	--	--
AUG										
25...	0930	ENVIRONMENTAL	9060	1100	8.2	37.0	30.0	1.6	760	7.3
25...	0940	CONCURRENT REPLICATE	9060	--	--	37.0	30.0	--	--	--

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC												
16...	90	310	170	75	28	95	3	4.2	171	0	140	240
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	98	300	160	76	27	100	2	4.4	168	4	144	260
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	97	300	160	77	27	99	2	4.3	176	0	144	250
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
26...	96	320	170	81	28	104	3	4.1	183	0	150	270
26...	96	320	170	81	28	105	3	4.1	183	0	150	270
JUN												
30...	97	300	160	75	27	97	2	4.0	177	0	145	250
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
25...	97	310	170	79	27	104	3	4.2	178	0	146	260
25...	--	--	--	--	--	--	--	--	--	--	--	--

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
DEC												
16...	81	.33	9.2	642	622	.87	.186	.82	.023	.209	.042	.13
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	92	.37	8.8	692	657	.94	--	--	<.010	.251	<.020	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	90	.35	8.9	688	648	.94	--	--	<.010	.230	<.020	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
26...	97	.38	9.3	696	682	.95	--	--	<.010	.205	.022	.22
26...	97	.37	9.3	716	684	.97	--	--	<.010	.208	.020	.25
JUN												
10...	91	.35	9.0	678	648	.92	--	--	<.010	.179	<.020	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
25...	97	.34	10	688	674	.94	--	--	<.010	.165	<.020	--
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)
DEC												
16...	.09	.17	.13	.38	.34	.055	.014	.001	<.01	<1.0	<1.0	2
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	.19	.17	.44	.63	.028	<.004	.001	<.01	3.7	<1.0	2
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	--	.20	.13	.44	.36	.029	<.004	.002	.01	--	--	2
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
26...	.18	.24	.20	.44	.40	.023	<.004	.002	.01	--	--	3
26...	.18	.27	.20	.48	.41	.023	.004	.001	<.01	--	--	4
JUN												
30...	--	.22	.17	.39	.35	.017	<.004	.001	<.01	2.2	<1.0	3
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
25...	--	.32	.14	.49	.30	.015	<.004	<.001	--	4.2	<1.0	2
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
DEC											
16...	104	<1.0	123	<1.0	3.7	<1.0	<1.0	<10	<1.0	44	6.2
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	96	<1.0	138	<1.0	2.1	<1.0	1.5	<10	<1.0	42	1.5
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	141	--	--	--	--	<10	--	47	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	147	--	--	--	--	<10	--	49	--
26...	--	--	148	--	--	--	--	<10	--	50	--
JUN											
30...	101	<1.0	135	<1.0	<1.0	<1.0	1.4	E7.3	<1.0	44	<1.0
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	96	<1.0	150	<1.0	<1.0	<1.0	1.5	<10	<1.0	45	<1.0
25...	--	--	--	--	--	--	--	--	--	--	--

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
16...	5.4	2.1	1	<1.0	1060	<10	1.1	4.2	2.6	.70	6
16...	--	--	--	--	--	--	--	--	--	--	4
MAR											
24...	6.0	2.0	2	<1.0	1040	<10	6.9	4.0	2.6	.20	51
24...	--	--	--	--	--	--	--	--	--	--	54
APR											
28...	--	--	1	--	1010	<10	--	--	2.5	.40	32
28...	--	--	--	--	--	--	--	--	--	--	34
MAY											
26...	--	--	2	--	1060	<10	--	--	2.5	.30	55
26...	--	--	3	--	1070	<10	--	--	2.5	.30	--
JUN											
30...	5.8	2.2	2	<1.0	1020	<10	1.5	3.8	2.8	.20	49
30...	--	--	--	--	--	--	--	--	--	--	49
AUG											
25...	6.0	3.0	1	<1.0	1060	<10	6.7	3.4	2.7	.30	66
25...	--	--	--	--	--	--	--	--	--	--	69

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)
DEC											
16...	358	15900	-12.54	-102.8	<.0020	<.002	E.003	<.0020	<.0010	<.0020	<.0020
16...	379	16900	--	--	--	--	--	--	--	--	--
MAR											
24...	37	1130	-12.62	-102.6	<.0020	<.002	<.001	<.0020	<.0010	<.0020	<.0020
24...	31	946	--	--	--	--	--	--	--	--	--
APR											
28...	62	1980	--	--	<.0020	<.002	<.001	<.0020	<.0010	<.0020	<.0020
28...	55	1750	--	--	--	--	--	--	--	--	--
MAY											
26...	26	751	-12.57	-101.0	<.0020	<.002	<.001	<.0020	<.0010	<.0020	<.0020
26...	28	808	--	--	<.0020	<.002	E.003	<.0020	<.0010	<.0020	<.0020
JUN											
30...	19	585	-12.57	-102.1	<.0020	<.002	.005	<.0020	<.0010	<.0020	<.0020
30...	51	1570	--	--	--	--	--	--	--	--	--
AUG											
25...	13	318	-12.48	-101.4	<.0020	<.002	.006	<.0020	<.0010	<.0020	<.0020
25...	9	220	--	--	--	--	--	--	--	--	--

DATE	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82660)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DIA2-INON D10 SAG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DIBUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
DEC											
16...	<.0030	<.0030	<.0040	<.0040	<.0020	<.0060	<.002	a115	<.001	<.0030	<.0170
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	<.0030	E.0282	<.0040	<.0040	<.0020	<.0060	E.003	a90.8	<.001	<.0030	<.0170
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	<.0030	<.0030	<.0040	<.0040	<.0020	<.0060	<.002	a75.0	<.001	<.0030	<.0170
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	<.0030	<.0030	<.0040	<.0040	<.0020	<.0060	<.002	a111	<.001	<.0030	<.0170
26...	<.0030	<.0030	<.0040	<.0040	<.0020	<.0060	<.002	a103	<.001	<.0030	<.0170
JUN											
30...	<.0030	<.0030	<.0040	<.0040	<.0020	<.0060	<.002	a117	<.001	<.0030	<.0170
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	<.0030	<.0030	<.0040	<.0040	E.0018	<.0060	<.002	a115	<.001	<.0030	<.0170
25...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	HCH ALPHA D6 SRC WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
DEC											
16...	<.0050	<.0040	<.0030	<.0030	<.0020	a75.3	<.004	<.0020	<.005	<.0060	<.004
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	.0082	<.0040	<.0030	<.0030	<.0020	a87.0	<.004	<.0020	E.005	<.0060	<.004
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	<.0020	<.0040	<.0030	<.0030	<.0020	a71.1	<.004	<.0020	<.005	<.0060	<.004
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	.0080	<.0040	<.0030	<.0030	<.0020	a109	<.004	<.0020	<.005	<.0060	<.004
26...	.0047	<.0040	<.0030	<.0030	<.0020	a103	<.004	<.0020	<.005	<.0060	<.004
JUN											
30...	<.0020	<.0040	<.0030	<.0030	<.0020	a89.8	<.004	<.0020	<.005	<.0060	<.004
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	<.0020	<.0040	<.0030	<.0030	<.0020	a101	<.004	<.0020	<.005	<.0060	<.035
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROM-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)
DEC											
16...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	E.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
26...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
JUN											
30...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	<.0180	<.0030	<.0070
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	<.002	<.0040	<.0030	<.004	<.0040	<.0040	<.0050	<.0020	E.0080	<.0030	<.0070
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	PRO-DANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
DEC										
16...	<.0040	<.0130	<.0050	<.0100	<.0070	<.0130	a96.5	<.0020	<.0010	<.0020
16...	--	--	--	--	--	--	--	--	--	--
MAR										
24...	<.0040	<.0130	<.0050	<.0100	<.0070	<.0130	a98.4	<.0020	<.0010	<.0020
24...	--	--	--	--	--	--	--	--	--	--
APR										
28...	<.0040	<.0130	<.0050	<.0100	<.0070	<.0130	a82.6	<.0020	<.0010	<.0020
28...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	<.0040	<.300	<.0050	<.0100	<.0070	<.0130	--	<.0020	<.0010	<.0020
26...	<.0040	<.500	<.0050	<.0100	<.0070	<.0130	--	<.0020	<.0010	<.0020
JUN										
30...	<.0040	<.0130	<.0050	<.0100	<.0070	<.0130	--	<.0020	<.0010	<.0020
30...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	<.0040	<.0130	.0065	<.0100	<.0070	<.0130	--	<.0020	<.0010	<.0020
25...	--	--	--	--	--	--	--	--	--	--

< Actual value is known to be less than the value shown.
E Estimated (for pesticide data, see introductory text section titled "Identifying Estimated Pesticide Concentrations").
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.

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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 1999 sampling period and are defined in the introductory text section titled "Water-Quality Control Data".

DATE	TIME	QUALITY ASSURANCE SAMPLE (TYPE)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
MAR											
24...	1008	FIELD BLANK	<.002	<.001	<.025	<.020	<.001	<.005	<.002	.001	.00
JUN											
30...	0938	FIELD BLANK	<.002	<.001	<.025	<.020	<.001	<.005	.006	.001	.00
AUG											
25...	0933	FIELD SPIKE	--	--	--	--	--	--	--	--	--

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
MAR												
24...	<.30	<.20	<.20	<.20	<2.0	<.30	<.20	<.20	<.20	<3.0	<.30	<.10
JUN												
30...	<.30	<.20	<.20	<.20	<2.0	<.30	<.20	<.20	<.20	<3.0	<.30	<.10
AUG												
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	DESETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAR												
24...	<.20	<.50	<.20	<.10	<.50	<.20	<.10	<.20	--	--	--	--
JUN												
30...	<.20	<.50	<.20	<.10	<.50	<.20	<.10	<.20	--	--	--	--
AUG												
25...	--	--	--	--	--	--	--	--	.136	.137	.101	E.0599

DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
25...	E.202	.0925	.114	E.128	E.137	.100	.133	.114	.0724	.109	&117	.118

DATE	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
MAR											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	.0921	.0462	.113	.0878	.120	.113	.102	&103	.106	.139	.119

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARATHION, DISSOLVED (UG/L) (39542)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PROMETON, WATER, DISS, REC (UG/L) (04037)
MAR											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	.115	.133	.132	.111	E.149	.115	.109	.103	E.0753	.0543	.108

DATE	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPCHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAR											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	.116	E.138	E.138	E.136	.103	E.142	E.168	.0809	.119	.116	.101

< Actual value is known to be less than the value shown.
E Estimated (for pesticide data, see introductory text section titled "Identifying Estimated Pesticide Concentrations").
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.

09429600 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	11.2	10.8	10.9
10	---	---	---	---	---	---	---	---	---	10.9	10.5	10.7
11	---	---	---	---	---	---	---	---	---	11.2	10.6	10.8
12	---	---	---	---	---	---	---	---	---	11.5	11.0	11.2
13	---	---	---	---	---	---	---	---	---	11.8	11.3	11.5
14	---	---	---	---	---	---	---	---	---	11.9	11.4	11.6
15	---	---	---	---	---	---	---	---	---	11.7	11.3	11.5
16	---	---	---	---	---	---	---	---	---	12.0	11.5	11.7
17	---	---	---	---	---	---	---	---	---	12.2	11.5	11.8
18	---	---	---	---	---	---	---	---	---	13.0	11.9	12.3
19	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
20	---	---	---	---	---	---	---	---	---	14.2	13.0	13.6
21	---	---	---	---	---	---	---	---	---	14.5	13.7	14.1
22	---	---	---	---	---	---	---	---	---	14.2	13.5	13.8
23	---	---	---	---	---	---	---	---	---	13.9	13.3	13.6
24	---	---	---	---	---	---	---	---	---	13.7	13.3	13.5
25	---	---	---	---	---	---	---	---	---	13.6	13.0	13.3
26	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
27	---	---	---	---	---	---	---	---	---	13.0	12.2	12.7
28	---	---	---	---	---	---	---	---	---	12.6	11.9	12.1
29	---	---	---	---	---	---	---	---	---	12.2	11.4	11.9
30	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
31	---	---	---	---	---	---	---	---	---	12.7	11.7	12.2
MONTH	---	---	---	---	---	---	---	---	---	14.5	10.5	12.3
	FEBRUARY			MARCH			APRIL			MAY		
1	13.1	12.2	12.6	16.0	15.3	15.7	17.5	15.8	16.5	18.6	17.1	17.8
2	13.3	12.5	12.9	16.5	15.6	16.0	16.3	15.4	15.9	19.7	18.3	18.8
3	13.5	12.4	12.9	16.8	16.2	16.5	16.5	15.8	16.2	19.7	18.9	19.4
4	13.0	12.5	12.8	17.1	16.4	16.7	16.1	14.9	15.3	19.7	18.3	18.9
5	13.1	12.1	12.5	16.9	16.3	16.6	16.1	15.1	15.6	20.4	19.0	19.6
6	13.5	12.5	12.9	17.5	16.6	17.0	17.1	15.8	16.5	21.6	20.0	20.7
7	14.2	13.0	13.6	16.7	15.7	16.3	17.3	16.8	17.0	22.2	21.3	21.8
8	15.0	13.8	14.4	15.9	15.3	15.6	17.6	16.6	17.1	22.8	22.0	22.4
9	15.8	14.4	15.0	15.8	15.3	15.5	17.4	16.4	16.9	22.5	21.9	22.2
10	15.8	14.2	14.9	16.2	15.2	15.7	17.8	16.5	17.1	22.2	21.4	21.7
11	14.2	12.4	13.1	16.3	15.4	15.8	18.3	16.8	17.4	22.6	21.7	22.1
12	12.4	11.7	11.9	16.0	15.2	15.5	17.9	17.3	17.6	23.2	22.3	22.6
13	12.2	11.4	11.8	16.3	15.3	15.7	18.2	16.8	17.5	22.9	22.4	22.7
14	12.8	11.6	12.2	16.7	15.7	16.2	19.1	17.9	18.5	23.1	22.4	22.7
15	13.8	12.5	13.1	16.7	15.8	16.2	19.4	18.7	19.0	22.8	22.2	22.5
16	14.3	13.2	13.7	16.8	15.9	16.4	19.6	18.9	19.1	22.5	21.7	22.1
17	14.3	13.5	13.9	16.8	16.2	16.5	20.0	18.6	19.2	23.3	22.4	22.7
18	14.8	13.9	14.4	17.1	16.4	16.7	20.6	19.6	20.1	23.7	23.0	23.3
19	15.7	14.2	14.8	17.8	16.7	17.2	20.9	20.0	20.4	24.0	23.1	23.5
20	15.6	14.8	15.2	18.6	17.4	17.9	21.1	20.5	20.7	24.1	23.3	23.7
21	15.5	14.7	15.1	18.5	17.7	18.1	20.9	20.3	20.6	23.8	23.2	23.5
22	14.7	14.0	14.4	18.2	17.5	17.9	21.1	20.2	20.8	23.6	23.1	23.4
23	14.5	13.7	14.1	18.0	17.4	17.7	20.5	19.7	20.1	23.7	23.1	23.3
24	14.9	14.1	14.3	18.0	17.2	17.6	20.2	19.5	19.8	23.9	23.2	23.5
25	15.1	14.1	14.6	18.2	17.7	18.0	20.3	19.6	20.0	24.8	23.8	24.2
26	15.5	14.6	15.0	18.3	17.8	18.0	20.9	19.9	20.4	25.4	24.5	24.9
27	16.0	14.9	15.4	18.5	17.7	18.2	21.4	20.6	21.0	26.2	25.2	25.6
28	15.9	15.1	15.5	19.0	18.3	18.5	21.4	19.9	20.9	26.5	25.5	26.0
29	---	---	---	19.3	18.4	18.7	19.9	18.7	19.4	26.5	25.4	25.9
30	---	---	---	19.5	18.8	19.1	18.7	17.4	18.0	25.5	24.5	25.0
31	---	---	---	18.9	17.5	18.3	---	---	---	25.0	24.0	24.5
MONTH	16.0	11.4	13.8	19.5	15.2	17.0	21.4	14.9	18.5	26.5	17.1	22.6

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA—Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.8	23.1	23.9	28.6	27.6	27.9	29.2	28.1	28.7	---	---	---
2	23.7	23.1	23.3	28.0	27.4	27.7	29.3	28.4	28.9	---	---	---
3	23.4	22.5	22.9	27.8	27.0	27.4	29.2	28.1	28.7	---	---	---
4	22.6	21.3	21.8	27.7	26.9	27.4	29.1	28.4	28.8	---	---	---
5	22.3	21.0	21.6	27.6	26.8	27.2	29.6	28.5	28.9	---	---	---
6	23.4	22.0	22.7	28.2	27.4	27.8	---	---	---	---	---	---
7	24.0	22.8	23.2	27.9	27.5	27.7	---	---	---	---	---	---
8	24.2	23.5	23.8	28.2	27.6	27.9	---	---	---	---	---	---
9	24.2	23.2	23.8	28.7	27.4	27.9	---	---	---	---	---	---
10	24.4	23.6	24.0	29.2	28.0	28.6	---	---	---	---	---	---
11	25.0	23.7	24.2	29.8	28.7	29.1	---	---	---	---	---	---
12	25.8	24.6	25.2	29.3	28.6	29.1	---	---	---	---	---	---
13	26.3	25.5	25.9	29.5	28.4	28.9	---	---	---	---	---	---
14	26.5	25.5	26.1	29.4	28.6	29.0	---	---	---	---	---	---
15	26.4	25.7	26.0	29.6	28.6	29.2	---	---	---	---	---	---
16	26.1	25.3	25.8	30.0	29.1	29.5	---	---	---	---	---	---
17	26.3	25.6	25.9	30.0	29.2	29.6	---	---	---	---	---	---
18	26.7	25.9	26.4	29.7	28.8	29.3	---	---	---	---	---	---
19	27.3	25.9	26.5	29.1	28.3	28.7	---	---	---	---	---	---
20	27.8	27.0	27.4	29.2	28.3	28.7	---	---	---	---	---	---
21	27.1	26.1	26.8	28.9	28.1	28.5	---	---	---	---	---	---
22	26.6	25.8	26.2	29.2	28.2	28.7	---	---	---	---	---	---
23	26.4	25.7	26.1	29.1	28.1	28.6	---	---	---	---	---	---
24	26.8	26.0	26.4	29.8	28.3	29.0	---	---	---	---	---	---
25	27.1	26.3	26.7	29.3	28.6	29.0	---	---	---	---	---	---
26	27.5	26.4	26.9	29.8	28.6	29.2	---	---	---	---	---	---
27	27.5	26.7	27.0	29.3	28.1	28.8	---	---	---	---	---	---
28	27.2	26.7	27.0	28.1	27.7	27.9	---	---	---	---	---	---
29	27.8	26.8	27.3	27.9	26.9	27.4	---	---	---	---	---	---
30	28.1	27.1	27.6	28.6	27.5	28.0	---	---	---	---	---	---
31	---	---	---	29.2	28.1	28.6	---	---	---	---	---	---
MONTH	28.1	21.0	25.3	30.0	26.8	28.5	29.6	28.1	28.8	---	---	---

SPECIFIC CONDUCTANCE, US/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	1030	993	---
2	---	---	---	---	---	---	---	---	---	1010	960	---
3	---	---	---	---	---	---	---	---	---	1060	981	---
4	---	---	---	---	---	---	---	---	---	1050	1030	---
5	---	---	---	---	---	---	1080	1060	---	1030	978	---
6	---	---	---	---	---	---	1070	1060	---	988	953	---
7	---	---	---	---	---	---	1070	1060	---	1090	1030	---
8	---	---	---	---	---	---	1080	1060	---	1070	1000	---
9	---	---	---	---	---	---	1060	1020	---	1080	966	1020
10	---	---	---	---	---	---	1050	1030	---	1020	966	996
11	---	---	---	---	---	---	1070	1050	---	1040	993	1020
12	---	---	---	---	---	---	1060	1040	---	1040	1000	1020
13	---	---	---	---	---	---	1060	1030	---	1020	1000	1010
14	---	---	---	---	---	---	1030	1020	---	1020	1000	1010
15	---	---	---	---	---	---	1050	1030	---	1030	1000	1010
16	---	---	---	---	---	---	1020	989	---	1130	1020	1080
17	---	---	---	---	---	---	1030	1020	---	1150	1010	1080
18	---	---	---	---	---	---	1100	1020	---	1170	1140	1160
19	---	---	---	---	---	---	1050	994	---	1180	1130	1160
20	---	---	---	---	---	---	1010	974	---	1200	1150	1170
21	---	---	---	---	---	---	1020	996	---	1180	1130	1150
22	---	---	---	---	---	---	1030	958	---	1260	1140	1190
23	---	---	---	---	---	---	1050	1030	---	1290	1240	1260
24	---	---	---	---	---	---	1040	1030	---	1300	1270	1280
25	---	---	---	---	---	---	1030	1020	---	1270	1230	1240
26	---	---	---	---	---	---	1020	1000	---	1230	1140	1170
27	---	---	---	---	---	---	1000	974	---	1190	1140	1170
28	---	---	---	---	---	---	1010	980	---	1260	1180	1210
29	---	---	---	---	---	---	1000	979	---	1260	1180	1210
30	---	---	---	---	---	---	1010	993	---	1220	1180	1190
31	---	---	---	---	---	---	1040	984	---	1220	1160	1180
MONTH	---	---	---	---	---	---	1100	958	---	1300	953	---

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, AZ-CA--Continued

SPECIFIC CONDUCTANCE, US/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1230	1180	1200	1130	1040	1090	1080	983	1030	1170	1040	1110
2	1210	1150	1190	1100	1040	1070	1100	1000	1050	1070	1020	1050
3	1200	1140	1170	1140	1050	1090	1100	1030	1070	1110	1020	1060
4	1200	1130	1170	1130	1040	1090	1100	1030	1060	1100	1010	1050
5	1210	1160	1190	1120	1040	1080	1120	1010	1060	1110	1040	1070
6	1210	1150	1180	1180	1080	1140	1090	996	1040	1180	1080	1130
7	1250	1200	1230	1160	1060	1110	1060	986	1020	1170	1070	1120
8	1260	1170	1200	1150	1050	1100	1110	1020	1060	1180	1070	1120
9	1240	1180	1210	1150	998	1070	1100	1040	1080	1110	992	1060
10	1270	1220	1240	1080	998	1040	1130	1060	1100	1050	992	1020
11	1300	1250	1270	1100	1020	1050	1150	1040	1100	1090	1000	1040
12	1350	1260	1290	1080	982	1030	1070	1030	1050	1110	998	1060
13	1350	1240	1270	1080	982	1040	1070	1030	1050	1100	990	1040
14	1260	1170	1200	1080	1010	1050	1140	1020	1080	1120	990	1050
15	1220	1170	1190	1100	1010	1050	1120	1000	1060	1110	988	1050
16	1210	1140	1180	1090	994	1040	1110	1000	1070	1050	985	1010
17	1140	1090	1120	1080	998	1030	1160	1040	1110	1130	994	1060
18	1200	1100	1170	1080	991	1030	1130	1050	1100	1090	1000	1050
19	1240	1160	1210	1160	1030	1100	1140	1030	1080	1070	991	1030
20	1220	1120	1170	1180	1090	1140	1130	1010	1070	1100	996	1050
21	1190	1100	1140	1160	1030	1100	1100	1010	1060	1070	994	1030
22	1150	1090	1120	1120	1010	1070	1110	996	1050	1140	1020	1080
23	1170	1100	1130	1080	1010	1040	1110	1030	1060	1100	1000	1050
24	1180	1080	1140	1100	1020	1050	1150	1010	1080	1080	983	1030
25	1160	1080	1110	1150	1020	1080	1090	991	1040	1100	994	1040
26	1180	1080	1130	1160	1030	1100	1050	973	1010	1130	1020	1060
27	1200	1100	1150	1170	1060	1120	1060	979	1020	1180	1050	1110
28	1140	1080	1110	1180	1070	1130	1080	1000	1040	1170	1040	1100
29	---	---	---	1140	1030	1080	1150	1010	1060	1140	1030	1080
30	---	---	---	1140	1030	1080	1120	1030	1070	1150	1040	1080
31	---	---	---	1130	1010	1070	---	---	---	1140	1020	1070
MONTH	1350	1080	1180	1180	982	1080	1160	973	1060	1180	983	1060
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1120	999	1060	1110	1020	1060	1210	1110	1160	1110	1030	1070
2	1120	1000	1060	1160	1020	1080	1130	1010	1080	1140	1060	1100
3	1140	1040	1080	1140	1030	1090	1090	1020	1060	1080	1010	1060
4	1160	1040	1100	1170	1030	1100	1090	1020	1070	1140	969	1090
5	1110	1050	1080	1090	1020	1050	1170	1060	1120	1120	1060	1100
6	1190	1060	1140	1110	1020	1060	1120	1030	1080	1100	1020	1070
7	1060	979	1010	1100	1000	1040	1110	1030	1080	1090	1010	1050
8	1130	999	1060	1090	1020	1050	1130	1050	1100	1080	1030	1050
9	1030	991	1010	1110	1010	1060	1080	1030	1050	1090	1020	1050
10	1080	977	1030	1140	1020	1100	1100	1030	1060	1080	1010	1040
11	1060	997	1030	1090	1010	1060	1090	1040	1060	1080	997	1050
12	1130	1030	1090	1090	1010	1050	1100	1030	1060	1100	1030	1070
13	1130	990	1060	1100	1020	1060	1080	1030	1050	1070	989	1030
14	1100	984	1030	1090	1010	1050	1150	1030	1100	1050	990	1030
15	1080	986	1030	1110	1030	1070	1170	1040	1120	1070	983	1030
16	1070	1000	1030	1160	1060	1110	1080	1040	1060	1060	981	1020
17	1100	1010	1050	1180	1080	1140	1100	1040	1080	1060	988	1020
18	1110	997	1050	1190	1080	1130	1100	1060	1080	1070	990	1040
19	1110	1000	1070	1090	1030	1060	1120	1070	1090	1030	985	1010
20	1170	1020	1100	1120	1030	1070	1130	1070	1100	1020	958	989
21	1090	1000	1040	1080	1020	1050	1140	1060	1110	1040	965	999
22	1120	1000	1050	1220	1020	1070	1170	1050	1120	1050	971	1010
23	1100	994	1040	1090	1020	1060	1110	1040	1080	1040	969	1000
24	1070	1000	1040	1120	1040	1090	1100	1030	1060	1040	968	1000
25	1110	1000	1050	1080	1000	1050	1110	1030	1080	1060	974	1040
26	1140	1030	1090	1090	1010	1050	1150	1060	1120	1040	962	1000
27	1110	997	1050	1080	1000	1040	1150	1100	1120	1040	973	1010
28	1100	993	1030	1090	983	1040	1190	1100	1150	1040	983	1010
29	1090	992	1030	1030	982	1010	1150	1070	1130	1040	1000	1030
30	1090	1020	1050	1100	1010	1060	1120	1040	1080	1040	1020	1020
31	---	---	---	1110	1010	1060	1110	1030	1080	---	---	---
MONTH	1190	977	1050	1190	982	1070	1210	1010	1090	1140	958	1040

09429500 COLORADO RIVER BELOW IMPERIAL DAM, AZ-CA

LOCATION.—Forebay gage: Lat 32°52'59", long 114°27'57", in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian, in Imperial County, California, Hydrologic Unit 15030107, near All-American Canal headworks at east (revised) end of Imperial Dam, 5 mi upstream from Laguna Dam, 15 mi northeast of Yuma, Az., 90 mi downstream from Palo Verde Dam, and 147 mi downstream from Parker Dam.

DRAINAGE AREA.—168,500 mi², approximately, including 3,559 mi² in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.—October 1950 to current year. Prior to October 1971 published as "at Imperial Dam." Records of flow reaching Imperial Dam, formerly published with this station, are now published separately as sta 09428490, "Colorado River above Imperial Dam."

GAGE.—Water-stage recorder in forebay. 12 calibrated gates on California sluiceway, 6 calibrated gates on Gila sluiceway, and calibrated manometer on each discharge pipe from desilting basin. Datum of forebay gage is 162.00 ft, U.S. Bureau of Reclamation datum. Prior to Aug. 21, 1991, forebay gage located at west end of Imperial Dam at same datum.

REMARKS.—No estimated daily discharges. Records good. Records of daily discharge show flow of Colorado River passing Imperial Dam, and include water released to river through California and Gila sluiceways, sludge from desilting basins returned to river, and leakage through dam. For records of flow reaching Imperial Dam see sta 09429490. Flow of Colorado Rivers regulated by many reservoirs, principally Lake Mead, since 1935. Many diversions from Colorado River and tributaries above station. Diversion to Mittry Lake and monthend contents of Senator Wash Reservoir also are published with sta 09429490.

COOPERATION.—Records of gate openings and sludge return flow from desilting basins furnished by Imperial Irrigation District.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 30,200 ft³/s Aug. 18, 19, 1983; minimum daily, 27 ft³/s Dec. 15-18, 1968.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	1070	2310	5190	505	1070	390	701	410	410	410	400
2	390	1120	2310	2850	634	991	1120	1070	410	410	467	400
3	390	1480	2310	2610	642	550	467	1270	410	719	748	400
4	390	1450	2310	527	643	426	390	1150	410	675	410	400
5	391	1370	2310	410	1720	410	775	610	410	410	410	400
6	390	1450	2310	410	2380	410	1200	410	790	410	410	400
7	528	777	2310	410	2050	656	1160	410	2670	410	410	400
8	529	392	2310	410	2170	390	390	410	3490	410	410	400
9	532	392	2310	692	1570	453	390	410	3620	468	400	400
10	390	580	2380	1840	844	390	390	590	3500	410	400	400
11	392	588	3030	1010	290	390	390	537	2090	410	400	400
12	531	390	2740	1190	290	390	410	534	1780	410	400	400
13	531	390	3680	927	290	390	663	410	1780	410	400	400
14	390	390	2670	962	671	1410	449	410	1330	410	400	400
15	533	390	3440	1360	836	933	525	691	981	410	710	400
16	530	390	3720	595	290	714	702	814	410	410	673	400
17	390	578	3680	520	496	581	701	556	410	410	400	400
18	390	579	3650	410	291	390	700	410	410	410	582	400
19	531	578	3070	528	290	390	699	410	410	640	400	400
20	530	390	2990	412	290	390	696	410	410	442	400	400
21	390	390	2550	290	938	390	699	410	410	410	400	400
22	390	391	2950	290	305	390	699	410	410	410	524	400
23	390	578	2770	290	290	390	699	735	410	410	587	400
24	390	390	4180	347	290	390	698	627	410	410	633	400
25	390	788	5120	378	410	390	700	875	410	410	734	400
26	390	2290	3660	408	444	390	699	492	410	410	665	400
27	390	1990	3820	338	410	390	702	410	611	410	400	986
28	531	2220	3260	290	804	404	912	410	410	469	400	1390
29	531	2250	3790	363	---	390	774	410	410	1100	643	572
30	751	1960	4090	405	---	390	697	410	410	728	534	400
31	827	---	4630	1610	---	390	---	410	---	410	400	---
TOTAL	14438	27984	96460	28273	21083	16028	19885	17614	30032	14671	15260	13748
MEAN	466	933	3112	912	753	517	663	568	1001	473	492	458
MAX	827	2290	5120	5190	2380	1410	1200	1270	3620	1100	748	1390
MIN	390	390	2310	290	290	390	390	410	410	410	400	400
AC-FT	28640	55510	191300	56080	41820	31790	39440	34940	59570	29100	30270	27270

CAL YR	1998	TOTAL	772048	MEAN	2115	MAX	7560	MIN	390	AC-FT	1531000
WTR YR	1999	TOTAL	315476	MEAN	864	MAX	5190	MIN	290	AC-FT	625700

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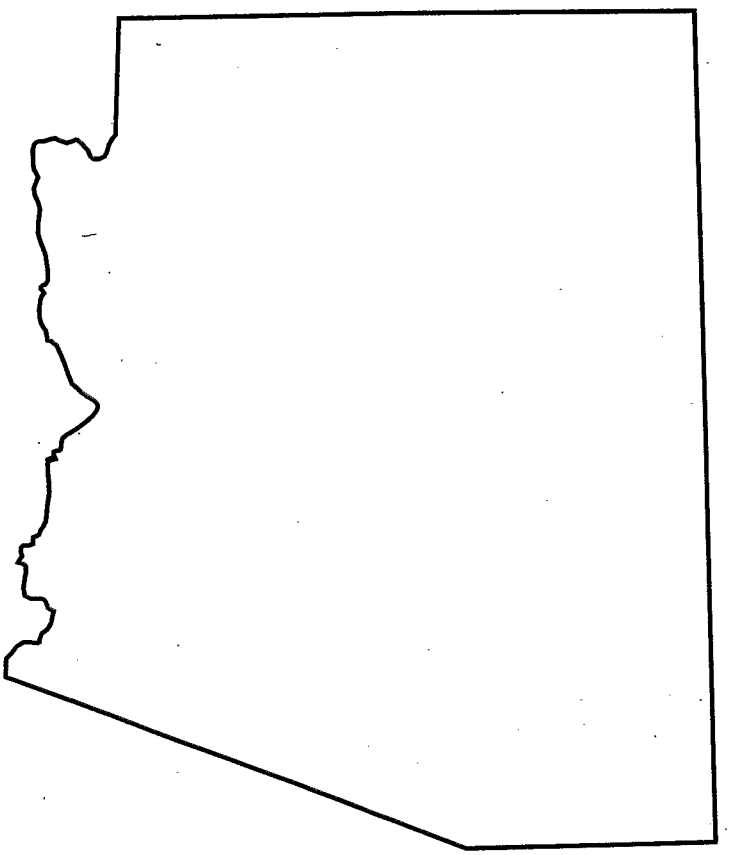
Solicitation Info

Water Resources Data Arizona Water Year 1999

Water-Data Report AZ-99-1



U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
State of Arizona
and with other agencies

CALENDAR FOR WATER YEAR 1999

1998

OCTOBER

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

NOVEMBER

S	M	T	W	T	F	S
1	2	4	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER

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

1999

JANUARY

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

FEBRUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

MARCH

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

APRIL

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

MAY

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

JUNE

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

JULY

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

AUGUST

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

SEPTEMBER

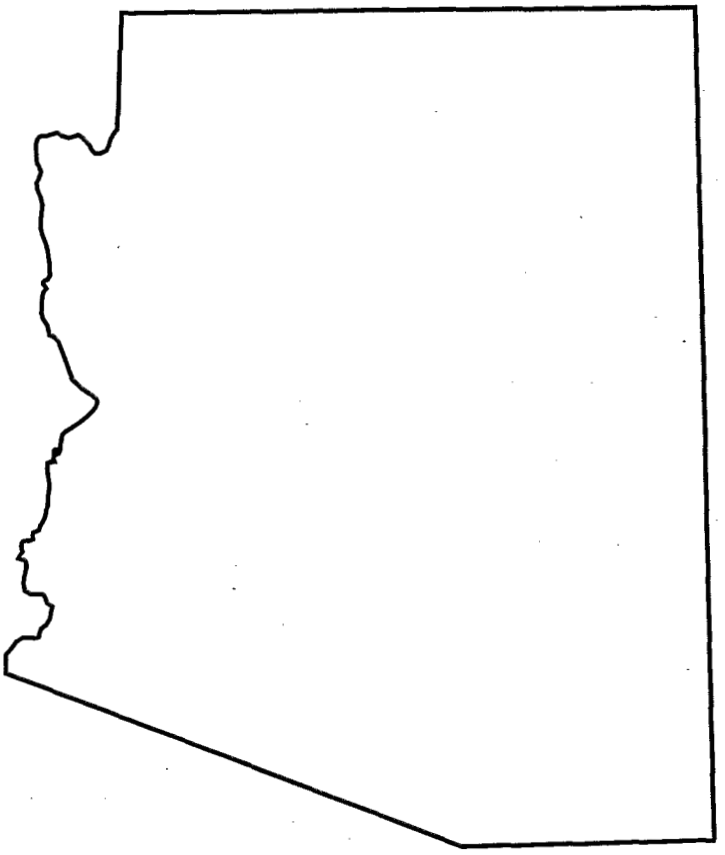
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Arizona Water Year 1999

By S.Tadayon, N.R. Duet, G.G. Fisk, H.F. McCormack, C.K. Partin, G.L. Pope, and P.D. Rigas

Water-Data Report AZ-99-1



Prepared in cooperation with the
State of Arizona and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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2000

PREFACE

This volume of the annual hydrologic data report of Arizona is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each state, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Arizona and with other agencies, under the general supervision of C.F. Smith, Data Chief, Arizona.

REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 2000	Annual--Oct 1, 1998 to Sept. 30, 1999

4. TITLE AND SUBTITLE
Water Resources Data for Arizona, Water Year 1999

5. FUNDING NUMBERS

6. AUTHOR(S)
S. Tadayon, N.R. Duet, G.G. Fisk, H.F. McCormack, C.K. Partin, G.L. Pope, and P.D. Rigas

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, WRD
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8. PERFORMING ORGANIZATION REPORT NUMBER
USGS-WDR-AZ-99-1

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
U.S. Geological Survey, WRD
520 North Park Avenue, Suite 221
Tucson, Arizona 85719

10. SPONSORING / MONITORING AGENCY REPORT NUMBER
USGS-WDR-AZ-99-1

11. SUPPLEMENTARY NOTES
Prepared in cooperation with the State of Arizona and with other agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT
No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water discharge data for the 1999 water year for Arizona consist of records of stage, discharge, and water quality of streams; stage, contents, water quality of lakes and reservoirs; water levels of observation wells; and quality of ground water. This report contains discharge records for 190 gaging stations, annual peaks for 29 crest-stage partial-record stations; contents only records for 8 lakes and reservoirs; stage and (or) contents for 1 lake; elevation only for 1 streamflow station; included with gaging-station records, consisting of monthend or monthly stage, contents, and evaporation of lakes and reservoirs, diversions, and return flows; water-quality records for 17 continuous-record stations; water-quality data for water from 156 wells. The data represent that part of the National Water Data System operated by the U.S. Geological Survey cooperating Federal and State agencies in Arizona.

14. SUBJECT TERMS
*Arizona, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediment, Water Temperatures, Sampling sites, Water levels, Water analyses.

15. NUMBER OF PAGES
392 pages

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	

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