

Water-Data Report 2009

**08330000 RIO GRANDE AT ALBUQUERQUE, NM**

Rio Grande-Elephant Butte Basin  
Rio Grande-Albuquerque Subbasin

LOCATION.--Lat 35°05'21", long 106°40'50.5" referenced to North American Datum of 1983, Bernalillo County, NM, Hydrologic Unit 13020203, in Atrisco Grant, on downstream side of Central Avenue Bridge in Albuquerque, and at mi 1,540.0.

DRAINAGE AREA.--17,440 mi<sup>2</sup> of which 2,940 mi<sup>2</sup> probably is noncontributing, from the closed basin in San Luis Valley, Colorado.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1946(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,946.16 ft above NGVD of 1929. Prior to Sept. 18, 1947, at various sites at datum about 2.00 ft higher; Sept. 15, 1982, to Sept. 20, 1983, at site 1.0 mi upstream at different datum.

COOPERATION.--Records for Albuquerque Riverside drain and Arenal, Armijo, and Atrisco canals provided by Middle Rio Grande Conservancy District. Data were not provided by time of printing.

Water Quality Cooperation: Bureau of Reclamation funds the Total Load and Turbidity samples. The Army Corps of Engineers funds the Daily suspended sediment concentration samples.

REMARKS.--Water-discharge records good, except for those estimated, which are fair. Flow regulated since Nov. 1973 by Cochiti Dam (station 08317300), 50 mi upstream. Some regulation by operation of reservoirs on Rio Chama and by flood- and silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Since May 1971, flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions upstream from station for irrigation of about 718,000 acres, several hundred of which are downstream from station.

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	495	429	460	776	668	846	1,700	3,100	1,360	1,710	533	346
2	480	463	461	778	654	784	1,570	3,510	2,310	1,400	529	393
3	476	452	439	725	664	883	1,460	3,590	2,970	1,190	509	477
4	485	411	429	599	719	968	1,440	3,630	3,040	1,080	516	514
5	1,490	414	438	552	720	1,030	1,280	3,880	3,060	968	512	539
6	783	446	466	665	704	1,090	1,130	3,950	3,110	963	512	557
7	626	470	467	796	710	975	1,010	3,930	3,050	885	562	528
8	577	464	467	798	686	940	917	e4,220	3,020	850	607	494
9	518	448	474	800	686	1,000	1,060	e4,540	2,800	771	583	463
10	483	450	473	800	725	1,060	983	e4,670	2,910	645	559	577
11	609	438	477	803	670	1,090	1,030	e4,690	2,910	578	552	516
12	842	443	469	816	721	902	1,180	e4,710	2,910	589	524	530
13	654	439	468	826	683	871	1,310	e4,880	2,440	555	510	529
14	660	476	470	836	713	927	1,570	e4,940	2,350	574	633	436
15	602	529	479	823	695	893	1,590	e4,850	2,490	542	659	410
16	516	515	539	809	649	822	1,700	e4,760	2,390	514	652	411
17	476	505	613	803	706	863	1,760	4,320	2,160	636	645	1,450
18	432	412	731	789	655	803	1,910	4,110	1,760	664	601	843
19	394	414	843	788	774	828	1,710	3,920	1,370	706	492	496
20	366	422	834	794	758	724	1,700	3,720	1,280	685	492	532
21	345	416	816	798	807	747	1,600	3,530	986	699	478	419
22	305	436	799	784	804	687	1,570	3,460	863	876	472	303
23	309	455	820	711	768	745	1,550	3,630	1,010	764	511	218
24	337	464	828	721	599	906	1,970	3,730	825	687	649	214
25	338	468	775	709	670	1,310	2,300	3,880	779	680	643	275
26	338	461	764	709	696	1,660	2,660	4,140	769	609	596	309
27	347	479	771	709	711	1,680	2,980	3,960	845	601	483	331
28	359	520	763	730	746	1,750	2,970	3,840	865	602	465	337
29	359	486	768	753	---	1,700	3,010	3,800	1,230	588	440	316
30	367	464	759	756	---	1,690	3,010	1,980	1,470	533	398	354
31	390	---	777	718	---	1,700	---	1,360	---	506	369	---
<b>Total</b>	15,758	13,689	19,137	23,474	19,761	32,874	51,630	121,230	59,332	23,650	16,686	14,117
<b>Mean</b>	508	456	617	757	706	1,060	1,721	3,911	1,978	763	538	471
<b>Max</b>	1,490	529	843	836	807	1,750	3,010	4,940	3,110	1,710	659	1,450
<b>Min</b>	305	411	429	552	599	687	917	1,360	769	506	369	214
<b>Ac-ft</b>	31,260	27,150	37,960	46,560	39,200	65,210	102,400	240,500	117,700	46,910	33,100	28,000

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	469	876	944	878	976	1,210	1,925	3,038	2,637	1,319	761	566
<b>Max</b>	1,802	2,302	2,276	2,159	3,562	2,790	6,343	6,203	6,113	5,439	3,452	1,554
<b>(WY)</b>	(1998)	(1987)	(1987)	(1986)	(1986)	(1986)	(1985)	(1980)	(1983)	(1979)	(1986)	(1986)
<b>Min</b>	38.4	145	441	443	480	424	137	148	336	287	242	51.4
<b>(WY)</b>	(1978)	(1990)	(2003)	(2003)	(2003)	(2003)	(1977)	(1977)	(1989)	(1974)	(2004)	(1974)

08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

SUMMARY STATISTICS

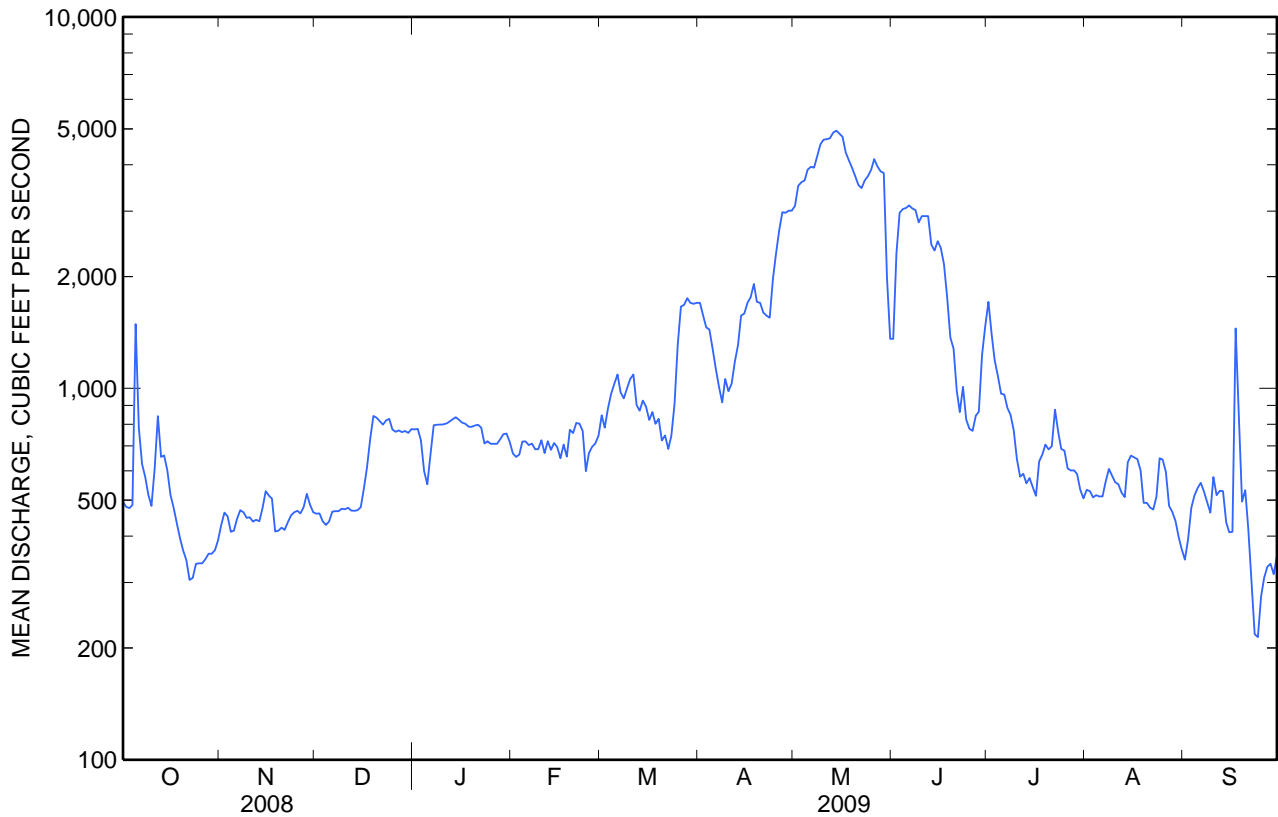
	Calendar Year 2008		Water Year 2009		Water Years 1974 - 2009	
<b>Annual total</b>	555,413		411,338			
<b>Annual mean</b>	1,518		1,127		<sup>a</sup> 1,300	
<b>Highest annual mean</b>					2,486	1987
<b>Lowest annual mean</b>					356	1977
<b>Highest daily mean</b>	5,150	May 25	<sup>e</sup> 4,940	May 14	8,650	Apr 24, 1985
<b>Lowest daily mean</b>	305	Oct 22	214	Sep 24	0.00	May 30, 1977
<b>Annual seven-day minimum</b>	331	Oct 21	284	Sep 22	0.00	May 30, 1977
<b>Maximum peak flow</b>			<sup>e</sup> 4,940	May 14	<sup>b</sup> 25,000	Apr 24, 1942
<b>Maximum peak stage</b>			5.91 May 14		7.82	Aug 10, 1967
<b>Instantaneous low flow</b>			194	Sep 24	0.00	May 30, 1977
<b>Annual runoff (ac-ft)</b>	1,102,000		815,900		941,900	
<b>10 percent exceeds</b>	3,670		2,990		3,360	
<b>50 percent exceeds</b>	781		720		786	
<b>90 percent exceeds</b>	462		429		322	

<sup>a</sup> Average discharge for 33 years (water years 1942-74), 1,440 ft<sup>3</sup>/s, 1,043,000 acre-ft, prior to closure of Cochiti Dam.

<sup>b</sup> From rating curve extended above 13,900 ft<sup>3</sup>/s.

<sup>e</sup> Estimate.

<sup>e</sup> Estimate.



**08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: May 1969 to September 1969 (partial-record station), October 1969 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 45,500 mg/L, July 21, 1971; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 275,000 tons, July 27, 1971; minimum daily, 0 tons on many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,650 mg/L, Sept. 17; minimum daily mean, 58 mg/L, Jan. 26 and 27. SEDIMENT LOAD:

Maximum daily 18,600 tons, May 13; minimum daily, 77 tons, Dec. 14.

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 6

[Remark codes: E, estimated.]

Date	Time	Medium code	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Instan- taneous dis- charge, ft <sup>3</sup> /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Stream veloc- ity, ft/s (00055)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Turbid- ity, IR LED light, det ang 90 deg, FNU (63680)
<b>Oct</b>													
15...	1130	WS	654	9.1	611	9.1	98	7.8	345	1.68	11.8	380	--
15...	1145	WS	654	9.1	611	--	--	--	--	--	--	--	--
15...	1200	SB	654	9.1	611	--	--	--	--	--	--	--	--
<b>Nov</b>													
25...	1200	WS	645	13.1	452	10.8	105	7.9	369	1.42	7.0	56	--
25...	1210	WS	645	13.1	452	--	--	--	--	--	--	--	--
25...	1220	SB	645	13.1	452	--	--	--	--	--	--	--	--
<b>Jan</b>													
23...	1545	WS	638	17.1	683	--	--	8.1	376	1.78	9.0	41	--
23...	1550	WS	638	17.1	683	--	--	--	--	--	--	--	--
23...	1555	SB	638	17.1	683	--	--	--	--	--	--	--	--
<b>Feb</b>													
19...	0955	WS	642	10.3	756	11.3	107	8.0	339	1.73	5.6	49	--
19...	1005	WS	642	10.3	756	--	--	--	--	--	--	--	--
19...	1015	SB	642	10.3	756	--	--	--	--	--	--	--	--
<b>Mar</b>													
16...	1220	WS	642	20.1	844	10.5	111	8.3	347	1.89	10.2	120	--
16...	1230	WS	642	20.1	844	--	--	--	--	--	--	--	--
16...	1240	SB	642	20.1	844	--	--	--	--	--	--	--	--
<b>Jun</b>													
10...	1430	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	--	--
10...	1440	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	--	--
10...	1500	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	40	--
10...	1501	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	44	--
10...	1520	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	46	--
10...	1521	WS	634	29.3	3,020	10.0	128	--	308	3.67	18.4	--	--
10...	1530	WS	634	29.3	3,020	--	--	--	--	--	--	--	--
10...	1540	SB	634	29.3	3,020	--	--	--	--	--	--	--	--
26...	1000	WS	637	31.8	--	8.1	118	8.3	317	--	25.0	--	--
26...	1010	WS	637	31.8	--	8.1	118	8.3	317	--	25.0	--	--
26...	1030	WS	637	31.8	--	8.1	118	8.3	317	--	25.0	29	--
26...	1031	WS	637	31.8	--	--	--	--	--	--	--	28	--
26...	1050	WS	637	31.8	--	--	--	--	--	--	--	30	--
26...	1051	WS	637	31.8	--	--	--	--	--	--	--	30	--
26...	1100	WS	637	31.8	--	--	--	--	--	--	--	--	--
26...	1110	SB	637	31.8	--	--	--	--	--	--	--	--	--

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 6

[Remark codes: E, estimated.]

Date	Gage height, feet (00065)	Mean stream depth, feet (00064)	Stream width, feet (00004)	Bed sediment, dry svs dia percent <0.0625 mm (80164)	Bed sediment, dry svs dia percent <.125mm (80165)	Bed sediment, dry svs dia percent <.25mm (80166)	Bed sediment, dry svs dia percent <.5 mm (80167)	Bed sediment, dry svs dia percent <1 mm (80168)	Bed sediment, dry svs dia percent <2 mm (80169)	Bed sediment, dry svs dia percent <4 mm (80170)	Bed sediment, dry svs dia percent <8 mm (80171)	Suspnd. sediment, fall dia dst wat percent <62.5um (70342)	Suspnd. sediment, fall dia dst wat percent <.125mm (70343)
<b>Oct</b>													
15...	2.74	1.4	262	--	--	--	--	--	--	--	--	--	--
15...	2.74	1.4	262	--	--	--	--	--	--	--	--	95	97
15...	2.74	1.4	262	.0	.0	11	57	87	96	99	100	--	--
<b>Nov</b>													
25...	2.50	1.2	257	--	--	--	--	--	--	--	--	--	--
25...	2.50	1.2	257	--	--	--	--	--	--	--	--	87	92
25...	2.50	1.2	257	.0	2	19	60	89	97	100	--	--	--
<b>Jan</b>													
23...	3.04	1.5	258	--	--	--	--	--	--	--	--	--	--
23...	3.04	1.5	258	--	--	--	--	--	--	--	--	35	51
23...	3.04	1.5	258	.0	.0	18	75	96	99	100	--	--	--
<b>Feb</b>													
19...	3.08	1.7	263	--	--	--	--	--	--	--	--	--	--
19...	3.08	1.7	263	--	--	--	--	--	--	--	--	42	60
19...	3.08	1.7	263	.0	.0	13	71	100	--	--	--	--	--
<b>Mar</b>													
16...	3.07	1.7	259	--	--	--	--	--	--	--	--	--	--
16...	3.07	1.7	259	--	--	--	--	--	--	--	--	69	80
16...	3.07	1.7	259	.0	1	13	66	93	98	100	--	--	--
<b>Jun</b>													
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	--	--
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	--	--
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	--	--
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	--	--
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	--	--
10...	4.89	3.7	220	--	--	--	--	--	--	--	--	23	34
10...	4.89	3.7	220	.0	2	22	60	60	77	96	100	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	63	73
26...	--	--	--	.0	1	9	45	85	96	99	100	--	--

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 6

[Remark codes: E, estimated.]

Date	Suspnd. sedi- ment, falldia dst wat percent <.25mm (70344)	Suspnd. sedi- ment, falldia dst wat percent <.5 mm (70345)	Suspnd. sedi- ment, sieve diametr percent <1 mm (70335)	Sus- pended sedi- ment concen- tration mg/L (80154)
<b>Oct</b>				
15...	--	--	--	463
15...	99	100	--	519
15...	--	--	--	--
<b>Nov</b>				
25...	--	--	--	115
25...	96	100	--	109
25...	--	--	--	--
<b>Jan</b>				
23...	--	--	--	2,480
23...	84	100	--	84
23...	--	--	--	--
<b>Feb</b>				
19...	--	--	--	219
19...	79	97	100	239
19...	--	--	--	--
<b>Mar</b>				
16...	--	--	--	292
16...	94	100	--	287
16...	--	--	--	--
<b>Jun</b>				
10...	--	--	--	1,690
10...	--	--	--	802
10...	--	--	--	--
10...	--	--	--	--
10...	--	--	--	--
10...	68	97	100	458
10...	--	--	--	--
26...	--	--	--	83
26...	--	--	--	86
26...	--	--	--	--
26...	--	--	--	--
26...	--	--	--	--
26...	95	100	--	80
26...	--	--	--	--

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 6

[Remark codes: E, estimated.]

Date	Time	Medium code	Baro-metric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	Instantaneous discharge, ft <sup>3</sup> /s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm @ 25 degC (00095)	Stream velocity, ft/s (00055)	Temperature, water, deg C (00010)	Turbidity white light, det ang 90+/-30 corrcrtd (63676)	Gage height, feet (00065)
<b>Jul</b>													
28...	1300	WS	647	32.5	508	7.2	107	7.8	328	1.68	26.7	440	2.52
28...	1310	WS	647	32.5	508	--	--	--	--	1.68	26.7	--	2.52
28...	1320	SB	647	32.5	508	--	--	--	--	1.68	26.7	--	2.52
<b>Aug</b>													
11...	1230	WS	644	39.1	565	7.5	109	8.0	338	1.81	25.2	67	2.64
11...	1240	WS	644	39.1	565	--	--	--	--	1.81	25.2	--	2.64
11...	1250	SB	644	39.1	565	--	--	--	--	1.81	25.2	--	2.64
31...	1030	WS	643	22.0	379	9.2	125	7.7	345	1.43	21.7	49	2.37
31...	1040	WS	643	22.0	379	--	--	--	--	1.43	21.7	--	2.37
31...	1050	SB	643	22.0	379	--	--	--	--	1.43	21.7	--	2.37

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 5 of 6

[Remark codes: E, estimated.]

Date	Mean stream depth, feet (00064)	Stream width, feet (00004)	Bed sediment dry svd <0.0625 mm (80164)	Bed sediment, dry svd <.125mm (80165)	Bed sediment, dry svd <.25mm (80166)	Bed sediment, dry svd <.5 mm (80167)	Bed sediment, dry svd <1 mm (80168)	Bed sediment, dry svd <2 mm (80169)	Bed sediment, dry svd <4 mm (80170)	Bed sediment, dry svd <8 mm (80171)	Suspnd. sediment, falldia dst wat percent (70342)	Suspnd. sediment, falldia dst wat percent (70343)	Suspnd. sediment, falldia dst wat percent (70344)
<b>Jul</b>													
28...	1.2	261	--	--	--	--	--	--	--	--	--	--	--
28...	1.2	261	--	--	--	--	--	--	--	--	98	98	99
28...	1.2	261	.0	4	12	47	95	99	100	--	--	--	--
<b>Aug</b>													
11...	1.2	262	--	--	--	--	--	--	--	--	--	--	--
11...	1.2	262	--	--	--	--	--	--	--	--	76	85	92
11...	1.2	262	.0	.4	9	44	80	92	97	100	--	--	--
31...	1.0	260	--	--	--	--	--	--	--	--	--	--	--
31...	1.0	260	--	--	--	--	--	--	--	--	--	--	--
31...	1.0	260	.0	2	17	53	81	89	95	100	--	--	--



## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO**  
**SEPTEMBER 2009**

Part 6 of 6

[Remark codes: E, estimated.]

Date	Suspnd. sedi- ment, fall dia dst wat percent <.5 mm (70345)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
<b>Jul</b>			
28...	--	--	471
28...	100	--	485
28...	--	--	--
<b>Aug</b>			
11...	--	--	152
11...	100	--	126
11...	--	--	--
31...	--	--	90
31...	--	85	71
31...	--	--	--

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**SUSPENDED-SEDIMENT**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment
	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)
	October		November		December		January		February		March	
<b>1</b>	141	189	119	138	105	131	112	235	94	169	577	1,320
<b>2</b>	128	166	140	175	79	99	113	238	94	165	614	1,300
<b>3</b>	154	198	150	183	66	79	108	212	96	171	525	1,250
<b>4</b>	163	214	130	145	69	80	96	156	103	200	611	1,600
<b>5</b>	1,080	4,880	130	145	91	107	87	129	113	220	719	2,000
<b>6</b>	886	1,890	131	158	78	98	90	163	117	223	613	1,810
<b>7</b>	525	896	148	188	71	90	100	215	128	245	412	1,100
<b>8</b>	321	500	138	173	70	88	96	208	133	246	345	875
<b>9</b>	280	392	112	136	73	94	90	194	148	273	335	905
<b>10</b>	246	321	127	155	78	99	82	177	171	334	319	913
<b>11</b>	292	564	193	227	89	115	75	163	165	299	424	1,250
<b>12</b>	507	1,160	173	206	77	97	73	160	169	330	232	569
<b>13</b>	442	780	167	197	68	86	79	175	157	289	161	378
<b>14</b>	445	794	232	301	61	77	73	165	153	295	245	617
<b>15</b>	479	776	244	348	63	82	69	154	176	331	281	677
<b>16</b>	439	612	231	321	78	114	71	155	193	338	287	637
<b>17</b>	371	479	218	298	199	332	65	142	201	382	264	615
<b>18</b>	302	353	129	147	206	406	66	141	198	350	263	571
<b>19</b>	253	270	139	155	205	466	68	144	229	479	240	537
<b>20</b>	214	212	136	155	204	458	69	149	221	453	205	400
<b>21</b>	198	185	124	139	191	422	63	137	211	460	230	463
<b>22</b>	142	117	116	137	180	388	61	129	201	437	208	387
<b>23</b>	121	101	115	141	163	361	78	150	218	451	225	451
<b>24</b>	146	133	110	138	150	335	92	179	194	315	306	751
<b>25</b>	154	141	111	141	139	292	78	150	154	278	620	2,210
<b>26</b>	152	138	114	142	131	270	58	111	127	238	994	4,470
<b>27</b>	153	143	140	182	129	269	58	112	279	534	945	4,270
<b>28</b>	140	136	179	251	124	256	64	127	400	813	929	4,400
<b>29</b>	125	122	200	262	123	256	78	159	---	---	829	3,810
<b>30</b>	128	127	140	175	124	253	89	181	---	---	641	2,930
<b>31</b>	118	124	---	---	118	247	96	186	---	---	648	2,970
<b>Total</b>	---	17,113	---	5,659	---	6,547	---	5,096	---	9,318	---	46,436

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

**SUSPENDED-SEDIMENT**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment	Mean	Sediment
	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)	concentration (mg/L)	discharge (tons/day)
	April		May		June		July		August		September	
1	642	2,950	696	5,820	750	2,740	772	3,580	441	633	94	88
2	539	2,290	756	7,170	1,030	6,510	713	2,710	405	578	93	99
3	374	1,470	817	7,910	1,400	11,200	359	1,150	363	499	110	144
4	343	1,330	878	8,600	1,400	11,500	391	1,140	316	440	163	227
5	337	1,170	938	9,840	1,350	11,100	313	820	289	399	170	248
6	323	985	999	10,700	1,290	10,800	424	1,100	263	363	207	311
7	233	634	1,060	11,300	1,240	10,200	507	1,210	253	384	191	273
8	173	430	1,140	13,000	1,190	9,710	371	852	247	404	176	235
9	188	538	1,210	14,900	1,360	10,300	298	621	227	358	150	188
10	227	603	1,290	16,300	1,200	9,370	280	490	194	294	190	294
11	281	786	1,370	17,300	1,030	8,080	149	232	153	228	198	276
12	338	1,070	1,430	18,200	633	4,990	132	210	137	193	200	289
13	388	1,370	1,410	18,600	279	1,860	138	207	127	175	199	286
14	449	1,910	1,360	18,100	222	1,410	124	192	134	231	191	225
15	443	1,900	1,310	17,100	401	2,690	127	185	188	335	189	209
16	391	1,790	1,260	16,100	368	2,380	143	199	209	369	194	220
17	478	2,270	1,200	14,100	389	2,260	162	280	217	377	1,650	6,440
18	606	3,130	1,150	12,800	283	1,350	240	429	203	329	230	531
19	520	2,400	1,090	11,600	375	1,380	159	304	150	201	208	279
20	470	2,160	1,020	10,200	290	1,010	132	244	133	177	207	299
21	376	1,630	948	9,050	417	1,100	209	421	123	158	207	234
22	251	1,060	963	8,990	379	883	389	1,000	114	146	208	170
23	181	759	1,050	10,300	642	1,770	330	680	122	169	212	125
24	318	1,710	1,140	11,400	970	2,150	358	664	163	285	217	126
25	406	2,530	1,150	12,000	910	1,930	386	708	148	257	224	166
26	452	3,240	1,100	12,200	212	443	414	680	137	221	230	191
27	498	4,000	1,040	11,200	481	1,120	442	718	119	155	235	211
28	544	4,360	993	10,300	1,270	2,980	446	726	107	134	240	218
29	589	4,790	939	9,620	1,070	3,550	435	689	105	125	242	206
30	637	5,170	873	4,680	720	2,840	447	642	100	107	237	225
31	---	---	806	2,960	---	---	465	636	82	82	---	---
<b>Total</b>	---	60,435	---	362,340	---	139,606	---	23,719	---	8,806	---	13,033

<b>Total suspended sediment discharge (tons)</b>	
<b>Year</b>	698,108

## 08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

## CLIMATOLOGICAL RECORDS

COOPERATION.--Records for Albuquerque Riverside drain and Arenal, Armijo, and Atrisco canals provided by Middle Rio Grande Conservancy District. Data were not provided by time of printing.

Water Quality Cooperation: Bureau of Reclamation funds the Total Load and Turbidity samples. The Army Corps of Engineers funds the Daily suspended sediment concentration samples.

**PRECIPITATION, TOTAL, INCHES**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY SUM VALUES**

[e, estimated]

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	e0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	e0.00	e0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00
4	0.25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	e0.00	e0.00	0.00
5	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00
6	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00
8	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00
9	0.00	0.00	0.03	0.00	0.00	0.22	0.00	0.00	0.01	e0.00	e0.00	0.01
10	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.29	e0.00	e0.00	0.17
11	0.08	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	e0.00	e0.00	0.07
12	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	e0.00	e0.00	0.00
13	0.00	0.00	0.01	0.00	0.00	0.16	0.00	0.00	0.00	e0.00	e0.02	0.00
14	0.14	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.02	e0.00	e0.35	0.00
15	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.01
16	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.69
17	0.01	0.00	0.01	0.00	0.00	0.00	0.14	0.00	0.00	e0.00	e0.00	0.59
18	0.00	0.00	0.12	0.00	0.00	0.00	0.05	0.00	0.00	e0.00	e0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.01
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	e0.02	e0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	e0.46	e0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	e0.01	e0.06	0.00
23	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.23	0.01	e0.00	e0.56	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	e0.00	e0.07	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12	e0.00	e0.00	0.00
26	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.19	e0.12	e0.00	0.00
27	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.01	0.00	e0.00	0.01	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	e0.06	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	e0.03	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.01	---	e0.00	0.00	---
<b>Total</b>	1.67	0.28	0.62	0.00	0.01	0.38	0.70	0.52	0.66	0.70	1.07	1.56
<b>Max</b>	1.15	0.28	0.13	0.00	0.01	0.22	0.37	0.23	0.29	0.46	0.56	0.69
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Calendar Year 2008	Water Year 2009
<b>Total</b>	6.80	8.17
<b>Max</b>	1.15	1.15
<b>Min</b>	0.00	0.00