Water-Data Report 2008

08330875 RIO GRANDE AT ISLETA LAKES NEAR ISLETA, NM

Rio Grande-Elephant Butte Basin
Rio Grande-Albuquerque Subbasin

LOCATION.--Lat 34°56′48″, long 106°40′49″referenced to North American Datum of 1983, Bernalillo County, NM, Hydrologic Unit 13020203, in Isleta Pueblo Grant, on left bank 0.2 mi downstream from Interstate Highway 25 Bridge, and 2.7 mi north of Isleta.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2000 to September 2002 (stage only), October 2002 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,870 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since Nov. 1973 by Cochiti Dam (station 08317300), 54 mi upstream. Possible 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 of which are downstream from station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	355	403	749	629	649	e1,660	e3,910	e3,290	e4,330	e2,070	525	e1,220
2	e464	416	683	648	607	e2,070	e3,800	e3,380	e4,390	e2,290	552	946
3	e370	402	809	643	657	e2,070	e3,560	e3,370	e4,310	e2,010	574	670
4	e286	353	740	583	640	e2,170	e3,450	e3,480	e4,410	e1,620	591	566
5	e302	342	745	532	693	e2,730	e3,660	e3,560	e4,410	e1,270	692	503
6	e290	341	845	553	656	e2,270	e3,400	e3,570	e4,450	e900	1,120	472
7	e312	380	873	656	661	e1,820	e3,370	e3,320	e4,500	e1,050	621	440
8	e314	490	891	968	643	e1,670	e3,370	e3,310	e4,530	e860	471	435
9	e326	504	963	915	575	e1,160	e3,720	e3,530	e4,990	e640	921	463
10	e340	545	1,100	764	583	889	e3,610	e3,660	e4,990	e780	610	589
11	e345	569	1,690	692	627	e1,200	e3,730	e3,770	e4,100	e1,050	564	518
12	e325	571	1,800	696	676	e1,670	e3,510	e3,730	e3,500	1,050	552	459
13	e315	590	1,630	737	689	e1,720	e3,500	e3,700	e3,430	1,060	511	450
14	e325	579	1,350	727	716	e1,930	e3,500	e3,410	e3,190	989	461	444
15	e328	552	1,190	728	773	e2,130	e3,190	e3,350	e3,140	925	441	447
16	e332	576	1,060	724	956	e2,230	e3,030	e3,380	e3,110	763	465	445
17	e305	570	1,060	665	1,110	e2,270	e2,810	e3,610	e3,110	703	602	458
18	e280	583	769	608	1,070	e2,500	e3,200	e3,370	e2,660	800	522	458
19	e290	590	620	563	1,140	e2,350	e3,390	e2,990	e2,510	859	509	481
20	e310	586	675	534	e1,190	e2,090	e3,370	e2,900	e2,550	737	498	494
21	e300	623	810	498	e1,160	e2,050	e3,120	e2,910	e2,510	884	471	511
22	e310	611	852	547	e1,260	e2,170	e3,140	e3,390	e2,710	909	463	499
23	e315	560	776	593	e1,400	e1,430	e3,230	e4,110	e2,660	831	464	458
24	316	590	694	695	1,080	e2,350	e3,520	e4,870	e2,580	627	471	453
25	315	624	695	759	893	e2,570	e3,950	e5,090	e2,300	480	497	461
26	286	634	715	757	e1,480	e2,610	e4,260	e4,950	e2,050	458	488	456
27	273	632	697	638	e1,700	e3,210	e4,270	e4,680	e2,010	448	481	447
28	305	579	631	707	e1,850	e3,110	e3,930	e4,290	e2,010	433	491	438
29	314	501	541	721	e1,860	e3,380	e3,720	e3,890	e1,880	425	574	417
30	327	478	481	748	---	e3,450	e3,640	e3,700	e1,950	436	573	397
31	345	---	569	766	---	e3,470	---	e4,090	---	468	596	---
Total	9,920	15,774	27,703	20,994	27,994	68,399	105,860	114,650	99,270	28,825	17,371	15,495
Mean	320	526	894	677	965	2,206	3,529	3,698	3,309	930	560	516
Max	464	634	1,800	968	1,860	3,470	4,270	5,090	4,990	2,290	1,120	1,220
Min	273	341	481	498	575	889	2,810	2,900	1,880	425	441	397
Ac-ft	19,680	31,290	54,950	41,640	55,530	135,700	210,000	227,400	196,900	57,170	34,460	30,730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	344	617	680	588	699	1,048	1,732	2,476	1,886	630	516	341
Max	754	1,190	894	720	977	2,206	3,529	5,193	5,002	930	1,128	516
(WY)	(2007)	(2007)	(2008)	(2005)	(2005)	(2008)	(2008)	(2005)	(2005)	(2008)	(2006)	(2008)
Min	175	332	420	436	474	413	517	565	425	353	188	131
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2006)	(2006)	(2003)	(2003)	(2004)	(2004)

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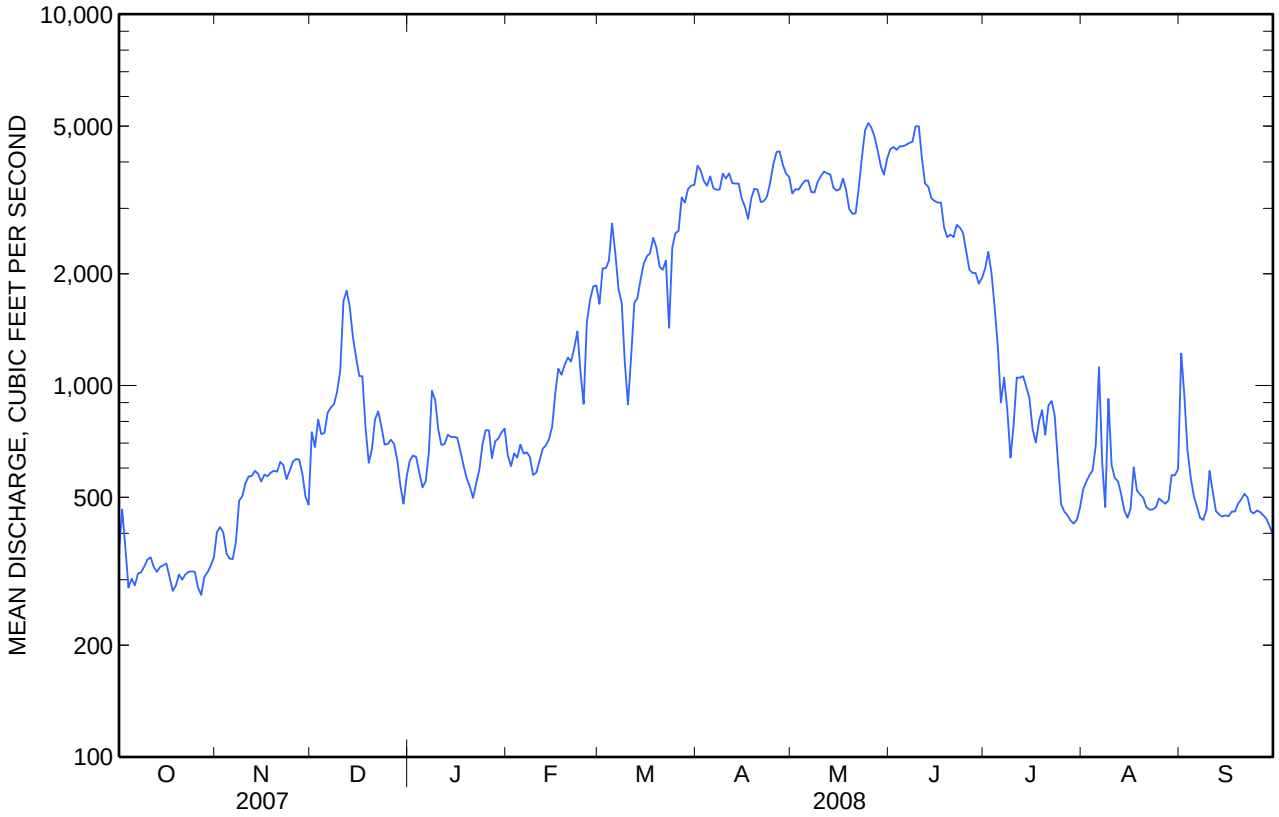
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2003 - 2008	
Annual total	332,925		552,255			
Annual mean	912		1,509		963	
Highest annual mean					1,590	2005
Lowest annual mean					393	2003
Highest daily mean	3,710	May 21	[a]5,090	May 25	6,430	Jun 3, 2005
Lowest daily mean	273	Oct 27	273	Oct 27	84	Aug 9, 2004
Annual seven-day minimum	290	Sep 9	301	Oct 17	95	Oct 19, 2003
Maximum peak flow			[b]5,550	May 24	6,740	Jun 2, 2005
Maximum peak stage			7.26	May 24	7.48	May 24, 2005
Instantaneous low flow			237	Oct 1	70	Sep 20, 2003
Annual runoff (ac-ft)	660,400		1,095,000		697,600	
10 percent exceeds	2,180		3,610		2,300	
50 percent exceeds	611		758		561	
90 percent exceeds	326		403		282	

[a]Estimated.

[b]Estimated.