

Water-Data Report 2013

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 estimated daily discharges, 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.

08330875 RIO GRANDE AT ISLETA LAKES NEAR ISLETA, NM—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	130	148	633	318	447	377	e448	613	567	e595	337	74
2	100	156	641	256	443	296	e458	611	555	e554	270	99
3	98	132	637	244	e461	328	e434	601	570	e488	360	153
4	103	132	673	227	446	322	e424	638	563	289	261	144
5	100	131	694	e230	439	290	e459	667	557	243	286	108
6	103	131	710	e217	496	318	e455	645	610	432	378	90
7	117	128	714	204	539	290	e507	615	609	297	249	e63
8	124	137	746	203	449	321	e523	608	520	331	316	e50
9	e117	139	780	232	419	326	e532	622	507	305	371	e48
10	e96	138	e797	320	439	396	e521	621	491	235	359	87
11	e97	142	807	330	422	362	e525	609	466	222	387	697
12	e100	147	803	e313	399	368	e544	619	431	185	408	558
13	93	144	705	e320	396	372	e520	e601	436	305	390	1,690
14	115	149	635	323	397	371	e514	e567	460	170	314	3,020
15	217	163	661	e335	398	364	e513	e548	494	191	205	3,230
16	241	186	654	e349	394	377	e469	e554	488	139	166	1,520
17	252	282	651	330	414	409	e451	539	492	90	140	e1,580
18	238	303	700	322	414	426	e441	528	e463	81	118	e657
19	143	315	813	327	415	445	e452	525	480	213	124	e648
20	133	346	e820	332	416	452	e454	529	447	459	105	825
21	127	441	e798	289	426	471	e447	517	416	421	150	575
22	126	486	658	283	435	495	461	528	e457	398	109	645
23	126	524	582	279	432	488	457	561	e486	211	e63	1,080
24	116	529	578	297	432	495	458	547	e500	111	e67	e804
25	110	527	577	325	436	501	486	540	e511	144	e78	e616
26	112	535	581	355	440	450	511	533	e544	743	104	e720
27	111	585	590	417	436	415	523	533	e557	2,300	123	e678
28	110	647	512	407	425	406	553	535	e539	1,090	118	e576
29	127	653	e378	395	---	400	587	549	e543	553	100	e497
30	121	641	354	431	---	446	585	531	e550	484	87	e493
31	139	---	360	441	---	e452	---	538	---	429	77	---
Total	4,042	9,117	20,242	9,651	12,105	12,229	14,712	17,772	15,309	12,708	6,620	22,025
Mean	130	304	653	311	432	394	490	573	510	410	214	734
Max	252	653	820	441	539	501	587	667	610	2,300	408	3,230
Min	93	128	354	203	394	290	424	517	416	81	63	48
Ac-ft	8,020	18,080	40,150	19,140	24,010	24,260	29,180	35,250	30,370	25,210	13,130	43,690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	324	563	683	587	653	887	1,498	2,178	1,508	594	481	369
Max	754	1,190	894	743	977	2,206	3,529	5,193	5,002	930	1,128	734
(WY)	(2007)	(2007)	(2008)	(2009)	(2005)	(2008)	(2008)	(2005)	(2005)	(2008)	(2006)	(2013)
Min	130	304	420	311	432	394	490	565	425	353	188	92.7
(WY)	(2013)	(2013)	(2003)	(2013)	(2013)	(2013)	(2013)	(2006)	(2003)	(2003)	(2004)	(2012)

08330875 RIO GRANDE AT ISLETA LAKES NEAR ISLETA, NM—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2003 - 2013	
Annual total	190,061		156,532			
Annual mean	519		429		861	
Highest annual mean					1,590	2005
Lowest annual mean					393	2003
Highest daily mean	2,130	Apr 3	^a 3,230	Sep 15	6,430	Jun 3, 2005
Lowest daily mean	74	Sep 20	48	Sep 9	48	Sep 9, 2013
Annual seven-day minimum	77	Sep 18	84	Sep 4	77	Sep 18, 2012
Maximum peak flow			^b 4,440		6,740	Jun 2, 2005
Maximum peak stage			7.27	Sep 14	7.60	May 22, 2010
Instantaneous low flow			48	Sep 9	48	Sep 9, 2013
Annual runoff (ac-ft)	377,000		310,500		623,500	
10 percent exceeds	912		647		1,850	
50 percent exceeds	539		431		564	
90 percent exceeds	109		117		252	

^a Estimated.

^b Estimated.

