Water-Data Report 2012

08355050 RIO GRANDE AT BRIDGE NEAR ESCONDIDA, NM

Rio Grande-Elephant Butte Basin
Rio Grande-Albuquerque Subbasin

LOCATION.--Lat 34°07′15″, long 106°53′13″ referenced to North American Datum of 1983, Socorro County, NM, Hydrologic Unit 13020203, on the downstream side of the County Road bridge over the Rio Grande. 1.5 miles northeast of Escondida NM.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2005 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.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08355050, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08355050.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	29	366	882	777	668	622	e1,200	650	194	36	0.03	11
2	28	405	850	633	680	563	e1,370	680	204	29	0.10	8.2
3	28	465	817	578	681	516	e1,640	643	205	23	0.00	7.5
4	24	487	818	562	685	520	e2,120	590	205	21	0.00	6.3
5	163	528	820	562	673	541	e1,650	552	200	24	40	5.9
6	144	557	800	591	686	529	1,070	438	193	24	1.4	4.2
7	68	587	763	604	701	518	1,030	391	188	25	0.69	2.1
8	258	616	749	609	720	485	1,260	377	193	32	0.05	0.22
9	201	603	654	622	719	519	1,380	360	191	239	0.00	0.00
10	209	671	616	612	713	533	1,140	358	191	272	0.00	0.00
11	202	738	572	606	719	511	1,030	384	187	103	0.00	0.00
12	174	784	615	604	690	527	1,000	371	190	227	0.00	0.00
13	148	645	676	577	684	524	909	353	187	262	0.00	221
14	97	594	691	575	704	501	895	440	182	267	0.00	100
15	125	687	752	574	704	480	918	449	171	237	0.00	44
16	146	956	788	572	719	504	955	392	159	119	0.00	38
17	147	980	638	567	726	513	917	396	144	51	0.00	6.4
18	135	953	671	565	716	604	796	376	129	35	0.00	4.6
19	88	867	848	575	708	655	668	321	113	23	2.9	5.2
20	77	888	876	538	705	703	639	297	101	15	3.9	5.0
21	e61	957	984	549	684	e720	632	300	87	8.3	5.0	3.8
22	e69	964	866	553	703	e713	577	e226	77	3.5	19	3.1
23	e57	961	868	557	709	e713	464	e188	66	3.3	19	2.0
24	e61	964	848	567	715	e698	432	e171	57	0.02	29	2.1
25	e61	981	786	612	740	e713	374	183	57	0.00	23	2.1
26	e62	920	736	629	694	e677	366	171	56	0.00	51	2.5
27	e58	883	739	622	696	e677	345	140	49	0.00	19	3.3
28	53	873	735	651	690	e677	349	182	40	0.00	17	3.3
29	53	882	731	659	684	e720	357	199	34	0.00	17	3.1
30	89	885	640	661	---	e922	535	196	37	0.40	17	2.9
31	178	---	749	682	---	e1,090	---	195	---	5.6	15	---
Total	3,293	22,647	23,578	18,645	20,316	19,188	27,018	10,969	4,087	2,085.12	280.07	497.82
Mean	106	755	761	601	701	619	901	354	136	67.3	9.03	16.6
Max	258	981	984	777	740	1,090	2,120	680	205	272	51	221
Min	24	366	572	538	668	480	345	140	34	0.00	0.00	0.00
Ac-ft	6,530	44,920	46,770	36,980	40,300	38,060	53,590	21,760	8,110	4,140	556	987

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	302	733	771	738	754	744	1,087	2,158	1,455	374	430	158
Max	830	1,160	929	870	926	1,649	2,662	5,541	5,472	965	2,279	273
(WY)	(2007)	(2007)	(2007)	(2009)	(2008)	(2008)	(2008)	(2005)	(2005)	(2008)	(2006)	(2006)
Min	95.3	511	698	601	645	289	156	157	136	46.4	9.03	16.6
(WY)	(2011)	(2011)	(2011)	(2012)	(2007)	(2006)	(2006)	(2006)	(2012)	(2011)	(2012)	(2012)

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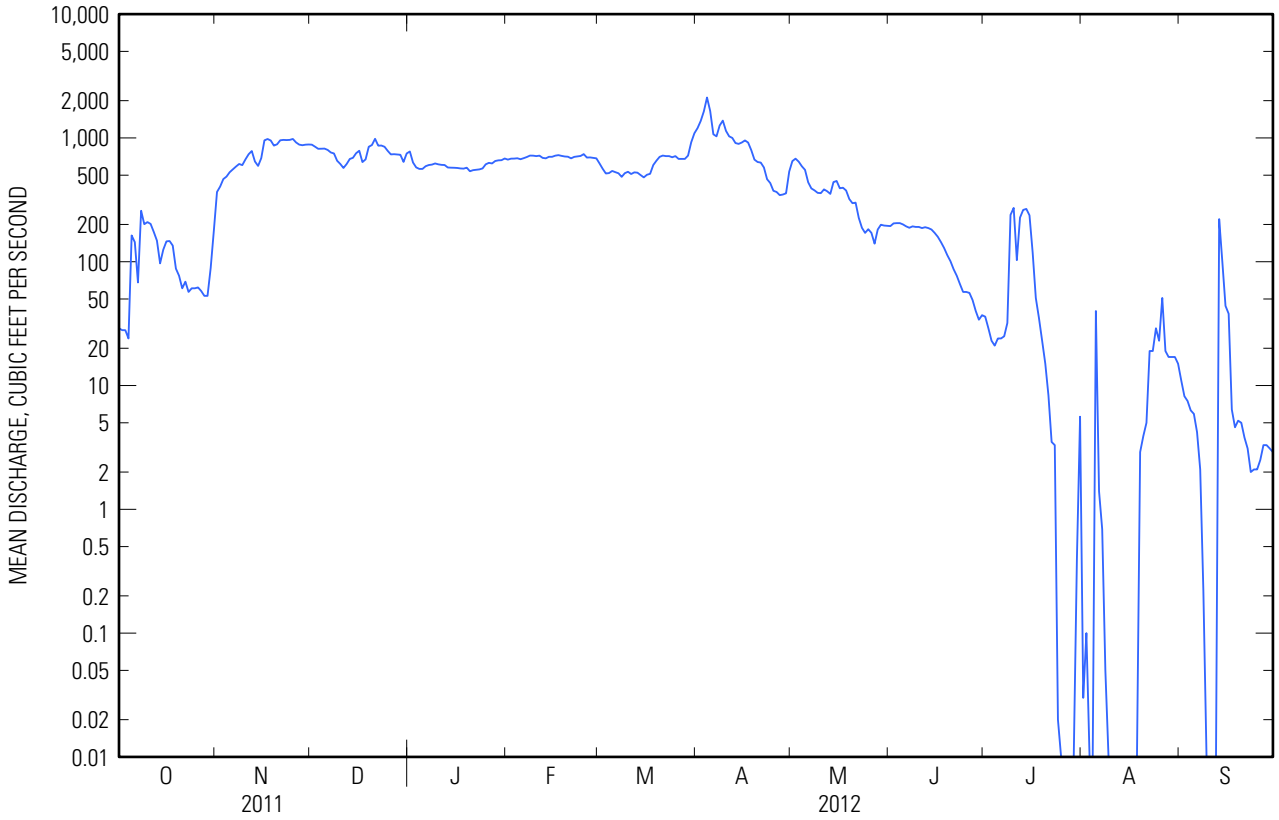
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2005 - 2012	
Annual total	135,159.7		152,604.01			
Annual mean	370		417		722	
Highest annual mean					1,283	2008
Lowest annual mean					344	2011
Highest daily mean	984	Dec 21	[a]2,120	Apr 4	8,490	Jun 4, 2005
Lowest daily mean	4.0	Aug 17	0.00	Jul 25	0.00	Jul 25, 2012
Annual seven-day minimum	7.4	Aug 11	0.00	Aug 9	0.00	Aug 9, 2012
Maximum peak flow			[b]2,120	Apr 4	4,940	May 11, 2009
Maximum peak stage			28.50	Apr 9	30.49	May 25, 2010
Instantaneous low flow			0.00	Jul 22	0.00	Jul 22, 2012
Annual runoff (ac-ft)	268,100		302,700		523,300	
10 percent exceeds	800		870		1,630	
50 percent exceeds	261		418		603	
90 percent exceeds	29		3.0		71	

[a] Estimated.
[b] Estimated.