

Water-Data Report 2013

08263500 RIO GRANDE NEAR CERRO, NM

Upper Rio Grande Basin
Upper Rio Grande Subbasin

LOCATION.--Lat 36°44'24.06", long 105°41'00.39" referenced to North American Datum of 1983, Taos County, NM, Hydrologic Unit 13020101, on left bank 4 mi southwest of Cerro, 5.5 mi northwest of Questa, 7.4 mi upstream from Red River, and at mile 1,693.1.

DRAINAGE AREA.--8,440 mi² of which 2,940 mi² probably is noncontributing, from the closed basin in San Luis Valley, Colorado.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1948 to September 1994, October 1995 to current year.

REVISED RECORDS.--WDR NM-80-I: 1978(M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,110 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 7,000 acres in New Mexico.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	83	79	227	182	213	236	311	86	99	68	83	95
2	87	75	226	182	213	239	312	85	106	68	73	95
3	85	77	234	185	211	249	328	80	99	65	86	83
4	78	93	239	181	210	258	327	79	91	74	79	74
5	76	105	241	176	214	272	341	96	84	69	83	69
6	72	109	238	177	219	274	340	87	102	71	79	72
7	68	101	236	171	223	305	328	122	127	90	100	82
8	67	98	231	173	227	336	332	160	149	84	123	79
9	75	95	222	171	232	338	343	187	131	67	160	88
10	75	98	151	172	230	334	339	192	113	66	154	85
11	74	99	103	173	232	336	245	186	98	66	136	95
12	75	77	137	180	231	345	181	170	86	64	165	106
13	78	79	147	178	228	336	142	169	82	63	169	118
14	77	85	164	170	232	347	144	150	90	64	165	143
15	73	98	170	172	232	347	128	135	103	62	165	214
16	71	123	173	170	230	371	114	131	104	61	176	229
17	68	121	178	164	230	426	108	130	95	58	179	282
18	74	109	194	163	232	471	104	122	86	57	167	277
19	79	103	201	163	234	464	103	104	79	55	143	253
20	81	182	192	165	237	416	102	110	79	59	116	237
21	75	223	199	166	233	397	105	120	78	62	92	272
22	68	232	195	166	236	387	105	123	74	59	77	336
23	68	231	190	167	240	379	97	109	71	55	77	391
24	65	228	183	170	238	370	89	103	65	52	85	389
25	66	230	180	171	235	353	91	109	62	51	77	393
26	66	228	181	173	213	314	90	129	61	50	69	423
27	67	225	187	180	246	287	86	173	60	54	72	372
28	82	218	194	180	233	287	92	148	60	55	69	393
29	93	207	193	173	---	289	89	117	62	68	70	469
30	86	199	184	175	---	299	85	112	64	95	128	522
31	81	---	184	186	---	303	---	107	---	106	121	---
Total	2,333	4,227	5,974	5,375	6,384	10,365	5,601	3,931	2,660	2,038	3,538	6,736
Mean	75.3	141	193	173	228	334	187	127	88.7	65.7	114	225
Max	93	232	241	186	246	471	343	192	149	106	179	522
Min	65	75	103	163	210	236	85	79	60	50	69	69
Ac-ft	4,630	8,380	11,850	10,660	12,660	20,560	11,110	7,800	5,280	4,040	7,020	13,360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	207	342	297	294	349	477	518	903	1,030	419	229	181
Max	1,310	1,073	774	566	657	1,010	2,335	4,577	4,400	2,181	1,273	970
(WY)	(1998)	(1987)	(1987)	(1987)	(1987)	(1987)	(1987)	(1987)	(1949)	(1986)	(1999)	(1999)
Min	52.7	88.1	100	116	140	110	104	75.5	58.1	49.4	44.5	44.8
(WY)	(1957)	(1957)	(1964)	(1957)	(1957)	(1957)	(2003)	(2002)	(1977)	(2002)	(2002)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013	
Annual total	73,094		59,162			
Annual mean	200		162		437	
Highest annual mean					1,275	1987
Lowest annual mean					112	1964
Highest daily mean	1,270	Mar 30	522	Sep 30	9,440	Jun 22, 1949
Lowest daily mean	54	Sep 6	50	Jul 26	40	Sep 10, 1977
Annual seven-day minimum	55	Sep 3	54	Jul 22	42	Sep 5, 1977
Maximum peak flow			579	Sep 30	9,740	Jun 22, 1949
Maximum peak stage			4.62	Sep 30	15.78	Jun 22, 1949
Instantaneous low flow			49	Jul 26	40	Sep 10, 1977
Annual runoff (ac-ft)	145,000		117,300		316,600	
10 percent exceeds	322		313		931	
50 percent exceeds	164		136		271	
90 percent exceeds	65		68		77	

