Water-Data Report 2013

50148890 RIO CULEBRINAS AT MARGARITA DAM NEAR AGUADA, PR

RIO CULEBRINAS BASIN

LOCATION.--Lat 18°23′40″, long 67°09′04″ referenced to North American Datum of 1927, Aguada Municipio, PR, Hydrologic Unit 21010003, on right bank 40 ft upstream of Margarita Dam spillway, 0.2 mi (0.32 km) upstream of Highway 2 at Aguadilla Filtration Plant water intake at Río Culebrinas, 1.05 mi (1.69 km) northeast of Central Coloso, and 2.55 mi (4.1 km) southeast from Aguadilla plaza.

DRAINAGE AREA.--94.6 mi^2, (245 km^2).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage, satellite telemetry at station. Elevation of gage is 14.8 ft (4.511 m) above National Geodetic Vertical Datum (NGVD) of 1929, from topographic map, (Corrected)

REMARKS.--Records fair except those for estimated daily discharges, which are poor. There are water extraction activities at the Margarita Dam operated by the Puerto Rico Aqueduct and Sewer Authority (PRASA). Station is located about 40 ft (12.2 m) upstream from Margarita Dam weir, (Corrected).

REVISIONS.--The figures for 2009 for the month of September, 2010 through 2012 mean daily discharge have been revised. Revision does not exceed USGS parameters for publication of a superseding table. Revised figures are available at the CWSC files.

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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	e149	384	140	57	39	15	73	712	1,220	919	201	e291
2	e125	126	731	52	42	17	37	701	2,020	521	152	e190
3	93	106	154	51	38	22	22	163	1,300	282	120	e159
4	77	96	160	54	32	18	49	108	663	235	111	e156
5	70	94	129	50	33	17	67	157	529	280	136	e153
6	65	216	107	55	31	17	38	392	483	194	e310	e148
7	60	1,370	100	48	33	16	19	945	476	309	e417	e143
8	73	408	93	45	59	15	25	2,930	508	384	e238	e156
9	178	326	90	50	60	15	47	1,590	597	202	e182	e169
10	437	139	84	42	41	10	22	1,190	320	159	e182	e180
11	853	250	80	51	35	7.6	23	2,080	413	151	e170	e370
12	372	819	82	57	43	6.2	36	497	889	139	e170	e660
13	133	2,150	80	55	29	5.6	75	914	657	133	e429	e251
14	118	588	84	52	23	5.8	57	1,780	312	964	e541	e264
15	128	465	76	47	25	5.0	47	1,620	236	1,250	e242	e383
16	109	261	71	42	26	6.0	73	1,320	240	596	e178	e528
17	201	723	69	45	29	9.4	416	710	198	370	e190	e724
18	434	321	70	44	28	11	200	473	173	223	e182	e893
19	423	281	75	42	25	17	58	323	249	229	e210	e740
20	162	185	62	40	24	31	34	279	190	169	e234	e412
21	157	169	61	43	26	13	26	351	153	148	e170	e742
22	1,000	455	63	37	34	9.7	21	216	140	135	e142	e824
23	774	160	130	35	30	20	21	256	228	133	e182	e486
24	245	139	78	35	28	17	211	298	1,280	122	e190	e692
25	345	123	61	34	27	22	559	1,690	1,020	135	e142	600
26	436	115	61	37	33	15	85	1,370	808	539	e198	752
27	324	107	102	37	28	8.0	48	1,750	589	557	e214	1,420
28	153	113	193	33	14	6.1	54	1,720	414	537	e214	294
29	125	170	77	35	---	79	565	835	476	246	e658	187
30	216	105	68	42	---	76	548	1,540	697	154	e647	207
31	190	---	60	36	---	60	---	1,760	---	141	e367	---
Total	8,225	10,964	3,491	1,383	915	592.4	3,556	30,670	17,478	10,556	7,719	13,174
Mean	265	365	113	44.6	32.7	19.1	119	989	583	341	249	439
Max	1,000	2,150	731	57	60	79	565	2,930	2,020	1,250	658	1,420
Min	60	94	60	33	14	5.0	19	108	140	122	111	143
Ac-ft	16,310	21,750	6,920	2,740	1,810	1,180	7,050	60,830	34,670	20,940	15,310	26,130
Cfsm	2.80	3.86	1.19	0.47	0.35	0.20	1.25	10.5	6.16	3.60	2.63	4.64
In.	3.23	4.31	1.37	0.54	0.36	0.23	1.40	12.06	6.87	4.15	3.04	5.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	570	431	180	96.4	69.0	101	206	487	489	368	485	655
Max	984	792	392	207	176	338	442	989	935	736	949	1,260
(WY)	(2006)	(2000)	(2002)	(1999)	(2009)	(2007)	(2003)	(2013)	(2009)	(2011)	(1998)	(2004)
Min	265	201	84.6	44.6	32.7	19.1	49.8	237	156	204	191	113
(WY)	(2013)	(2011)	(2011)	(2013)	(2013)	(2013)	(2010)	(2004)	(2002)	(2003)	(2012)	(2012)

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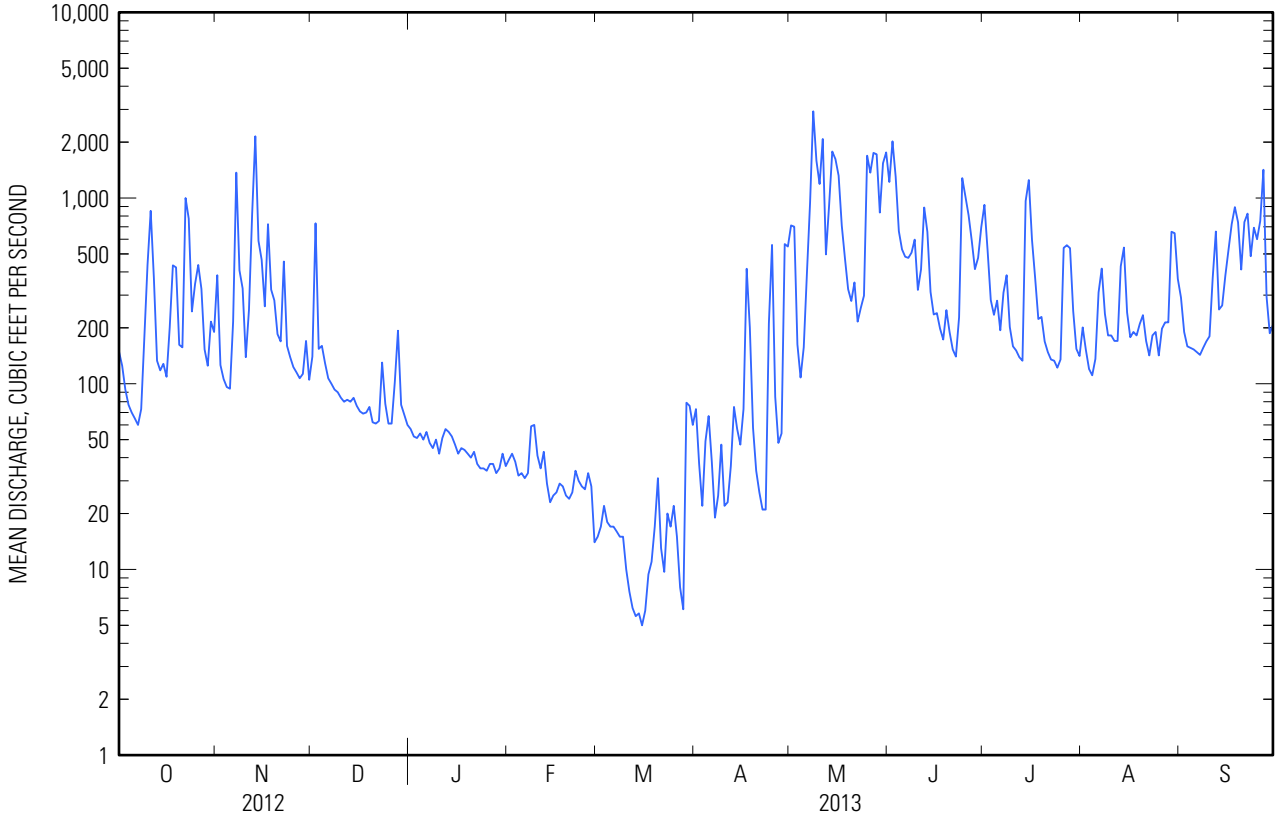
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1998 - 2013	
Annual total	83,495		108,723.4			
Annual mean	228		298		341	
Highest annual mean					421	2011
Lowest annual mean					232	2012
Highest daily mean	2,720	Mar 29	2,930	May 8	6,000	Sep 16, 2004
Lowest daily mean	19	Mar 5	5.0	Mar 15	5.0	Mar 15, 2013
Annual seven-day minimum	26	Mar 4	6.5	Mar 11	6.5	Mar 11, 2013
Maximum peak flow			4,220	May 8	5,480	Sep 22, 1998
Maximum peak stage			15.87	May 8	18.28	Sep 22, 1998
Annual runoff (ac-ft)	165,600		215,700		247,400	
Annual runoff (cfsm)	2.41		3.15		3.61	
Annual runoff (inches)	32.83		42.75		49.04	
10 percent exceeds	559		746		881	
50 percent exceeds	120		151		185	
90 percent exceeds	41		25		43