Water-Data Report 2012

50061800 RIO CANOVANAS NEAR CAMPO RICO, PR

RIO GRANDE DE LOIZA BASIN

LOCATION.--Lat 18°19′08″, long 65°53′21″ referenced to North American Datum of 1927, Loiza Municipio, PR, Hydrologic Unit 21010005, at about 100 ft upstream from bridge, on paved secondary road, 0.4 mi (0.6 km) northeast of junction of State Roads 185 and 186, 1.5 mi (2.4 km) south of Campo Rico, and 4.4 mi (7.1 km) south of Loíza.

DRAINAGE AREA.--9.84 mi^2, (25.5 km^2).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and crest-stage gage, satellite telemetry at station. Elevation of gage is 225 ft (68 m) above National Geodetic Vertical Datum (NGVD) of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

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 50061800, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/50061800.2012.pdf

50061800 RIO CANOVANAS NEAR CAMPO RICO, PR—Continued

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	41	58	31	26	29	28	42	25	37	19	e41	19
2	33	37	29	26	29	26	36	24	27	19	e22	19
3	30	56	28	25	26	23	34	33	26	19	e20	17
4	28	51	27	24	37	20	32	31	25	35	e34	17
5	31	27	34	26	34	19	32	108	25	96	e22	16
6	35	25	29	24	25	21	29	105	24	e34	e17	16
7	27	27	26	24	23	41	27	57	24	e21	e15	16
8	31	30	26	23	27	34	45	37	24	e18	15	15
9	32	68	43	22	24	26	76	33	24	31	14	15
10	25	46	497	22	22	22	55	34	24	38	14	15
11	23	42	67	22	21	20	42	32	23	21	13	14
12	22	27	47	21	20	47	34	31	22	20	13	14
13	45	26	41	21	20	29	44	29	22	19	17	14
14	36	30	37	21	29	28	142	27	21	20	14	18
15	25	48	77	20	28	22	74	26	22	20	14	16
16	22	36	41	25	29	20	41	33	28	19	15	14
17	22	32	36	25	32	19	36	90	35	17	17	14
18	23	29	34	48	23	20	33	74	35	18	22	15
19	23	26	32	28	26	23	31	46	e27	18	15	16
20	21	52	33	22	22	27	29	51	e25	28	13	14
21	39	182	48	21	20	20	28	64	e24	37	30	13
22	23	63	42	20	20	52	103	45	e21	22	40	13
23	20	48	36	20	20	105	42	38	20	18	113	12
24	19	35	33	30	20	59	32	33	19	16	113	12
25	20	43	32	23	19	90	29	31	19	16	82	15
26	20	49	33	37	20	45	28	30	21	15	39	17
27	19	46	30	30	28	35	28	29	20	15	31	16
28	18	39	29	25	24	152	26	32	19	15	26	14
29	25	61	28	26	21	130	25	30	20	15	22	15
30	20	37	28	25	---	107	25	28	20	24	20	14
31	28	---	27	46	---	63	---	32	---	e169	20	---
Total	826	1,376	1,581	798	718	1,373	1,280	1,318	723	892	903	455
Mean	26.6	45.9	51.0	25.7	24.8	44.3	42.7	42.5	24.1	28.8	29.1	15.2
Max	45	182	497	48	37	152	142	108	37	169	113	19
Min	18	25	26	20	19	19	25	24	19	15	13	12
Ac-ft	1,640	2,730	3,140	1,580	1,420	2,720	2,540	2,610	1,430	1,770	1,790	902
Cfsm	2.71	4.66	5.18	2.62	2.52	4.50	4.34	4.32	2.45	2.92	2.96	1.54
In.	3.12	5.20	5.98	3.02	2.71	5.19	4.84	4.98	2.73	3.37	3.41	1.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	41.1	48.4	34.4	26.7	19.0	15.0	18.6	27.9	18.5	19.7	29.6	41.6
Max	273	190	116	75.9	48.4	44.3	96.6	95.5	63.7	63.7	176	196
(WY)	(1971)	(2004)	(1971)	(2005)	(1988)	(2012)	(2003)	(2004)	(1970)	(1979)	(2011)	(1996)
Min	6.74	6.66	5.82	6.66	4.04	3.54	4.36	4.28	2.80	3.72	5.69	5.20
(WY)	(1968)	(1981)	(1968)	(1977)	(1977)	(1977)	(1994)	(1974)	(1974)	(1974)	(1991)	(1967)

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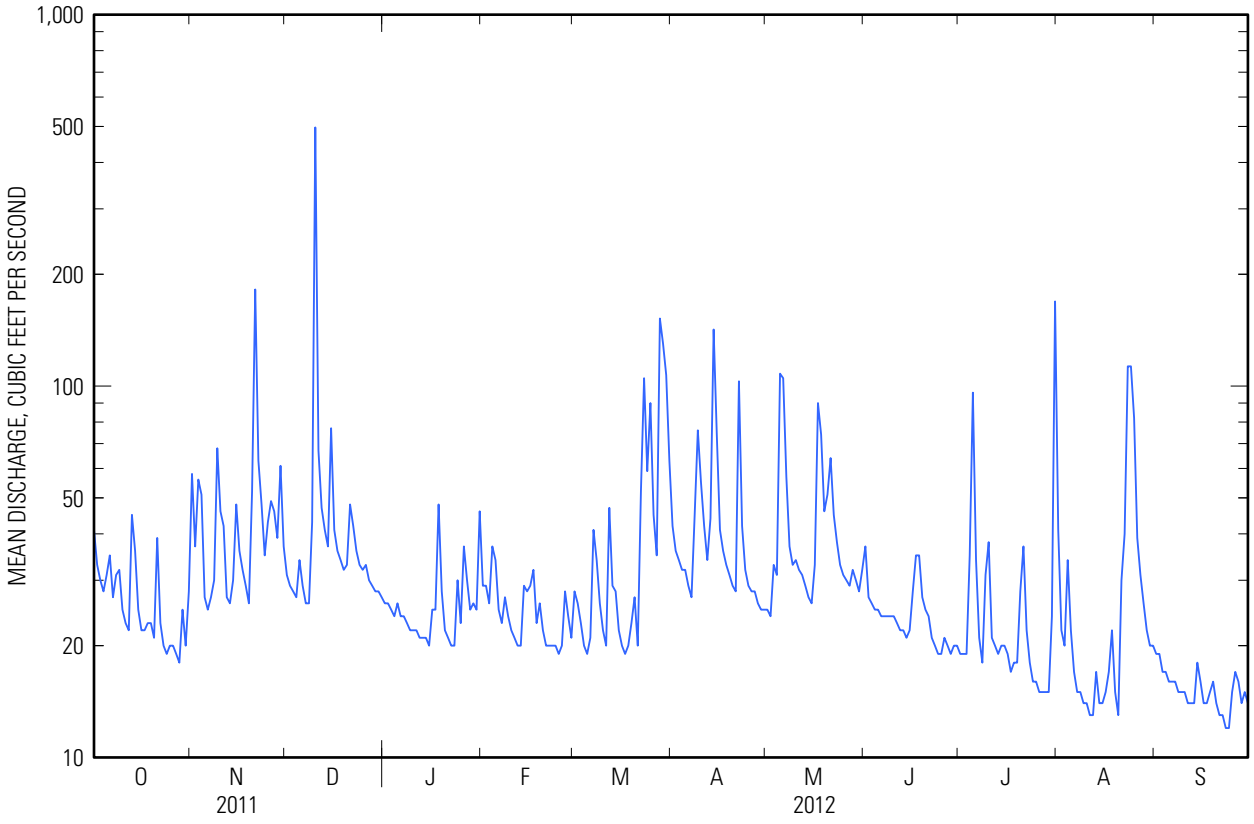
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1967 - 2012	
Annual total	16,127.5		12,243			
Annual mean	44.2		33.5		28.6	
Highest annual mean					58.0	1971
Lowest annual mean					10.5	1994
Highest daily mean	1,610	Aug 23	497	Dec 10	4,230	Sep 10, 1996
Lowest daily mean	8.7	Apr 24	12	Sep 23	0.80	Jul 24, 1977
Annual seven-day minimum	9.2	Apr 19	14	Sep 18	1.5	Jul 18, 1977
Maximum peak flow			3,360	Dec 10	17,300	Sep 21, 1998
Maximum peak stage			9.18	Dec 10	15.90	Sep 21, 1998
Instantaneous low flow					0.80	Jul 24, 1977
Annual runoff (ac-ft)	31,990		24,280		20,720	
Annual runoff (cfsm)	4.49		3.40		2.91	
Annual runoff (inches)	60.97		46.28		39.49	
10 percent exceeds	54		50		49	
50 percent exceeds	27		26		13	
90 percent exceeds	11		16		5.5