16807650 Aplacho River at Apra Heights, Guam

LOCATION.--Lat 13°24'14.4", long -144°41'23.1" referenced to North American Datum of 1983, on right bank 0.5 miles north of Junction 5 and 17 on northeast side of Highway 17 bridge.

DRAINAGE AREA.--0.44 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to December 2004, September 2006 to September 2011 (discontinued). October 1999 to December 2004, unpublished records are in the files of the U.S. Geological Survey.

REVISED RECORDS.--WDR HI-10-1: Drainage Area; WDR HI-11-1: 2007-2010 (Period of record minimum).

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above mean sea level, from topographic map.

REMARKS.--Records computed by C.W. Yeung. Records good, except for periods of estimated discharge, which are poor.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--10 years (water years 2000 - 2004, 2007-2011), 2.29 ft^3/s (1,660 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge: 1,690 ft^3/s, July 5, 2002, gage height 25.16 ft, from rating curve extended above 10 ft^3/s on basis of slope-area measurements at gage height 23.33 ft and 25.22 ft. Minimum discharge: 0.12 ft^3/s, May 19, 2001.

REVISIONS.--The minimum discharge for period of record is 0.12 ft^3/s, May 19, 2001. This supercedes the figure published in WDR HI reports from 2007 to 2010.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 13	0115	*385	*22.01
No other peaks greater than base discharge.			

Minimum reported discharge, 0.36 ft^3/s, June 12-16, but may have been lower during estimated periods.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 16807650, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/16807650.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.1	e4.0	e1.4	e0.91	17	0.85	12	0.76	0.43	0.67	2.0	1.7
2	2.9	e3.1	e1.2	e0.87	4.2	0.82	1.5	0.59	0.43	0.67	2.5	37
3	1.9	e4.4	e1.2	e0.86	2.2	0.79	1.1	0.55	0.46	0.62	2.3	4.0
4	1.7	e3.8	e1.1	e1.1	1.9	0.75	0.95	0.54	0.50	0.85	8.6	2.8
5	1.7	e4.6	e1.3	e0.95	1.7	0.73	0.89	0.51	0.44	0.63	3.6	2.2
6	1.5	e2.9	e1.2	e0.88	1.5	0.71	0.92	0.50	0.56	1.1	3.3	4.1
7	1.6	e2.7	e2.2	e0.86	1.4	0.76	0.82	0.49	0.46	0.65	6.5	2.0
8	1.4	e2.3	e1.3	e3.3	1.4	0.78	0.75	0.51	0.48	0.57	16	12
9	1.7	e2.0	e1.2	e7.2	12	0.76	0.73	0.50	0.43	0.69	3.5	8.6
10	1.4	e1.9	e1.2	e5.5	2.0	0.69	0.71	0.53	0.45	0.82	2.6	3.2
11	7.8	e1.7	e1.2	e3.2	1.7	0.67	0.71	0.54	0.44	0.63	2.2	2.5
12	8.7	e1.6	e1.1	2.0	1.5	0.70	0.69	0.54	0.40	1.4	1.8	2.2
13	28	e1.5	e1.1	1.8	1.3	0.69	0.73	0.52	0.39	7.4	1.8	2.0
14	3.6	e1.4	e1.2	1.4	1.2	0.66	0.67	0.48	0.39	2.5	2.5	4.0
15	2.7	e1.3	e1.1	1.8	1.2	0.62	0.70	0.57	0.41	9.8	1.7	2.1
16	e2.4	e1.9	e1.1	1.7	5.7	0.62	0.70	0.52	0.42	4.0	2.9	3.3
17	e2.0	e4.3	e1.0	1.3	1.7	0.63	0.66	0.48	0.48	1.7	2.6	2.0
18	e1.8	e2.6	e1.0	1.2	1.4	0.75	0.63	0.54	0.58	9.1	2.0	1.8
19	e1.7	e1.9	e1.1	3.0	1.2	2.6	0.60	0.47	1.0	2.1	5.4	1.9
20	e1.5	e1.6	e1.1	6.3	1.1	0.89	0.58	0.48	1.2	1.7	5.8	1.7
21	e1.4	e1.5	e2.5	2.1	1.1	0.79	0.55	0.48	0.75	1.4	3.6	7.0
22	e2.0	e1.3	e1.3	1.8	1.0	0.73	0.54	0.47	0.65	1.2	5.4	4.2
23	e1.4	e1.3	e1.1	1.5	1.00	0.67	0.53	0.54	0.59	1.1	3.8	2.7
24	e1.3	e1.4	e1.0	1.3	0.98	0.67	0.52	0.62	0.54	1.1	24	2.1
25	e1.2	e1.3	e1.1	1.3	0.95	0.62	0.55	0.54	0.85	1.0	5.1	2.1
26	e1.1	e1.2	e0.98	1.2	0.89	0.61	0.57	0.70	0.84	1.0	3.4	1.8
27	e1.2	e1.1	e1.1	1.2	0.87	0.63	0.64	0.51	0.71	1.5	2.6	8.8
28	e1.6	e1.1	e1.1	1.1	0.85	0.66	0.63	0.53	0.71	16	2.1	12
29	e1.2	e1.2	e0.98	1.4	---	0.63	0.55	0.49	0.56	10	1.9	6.7
30	e2.6	e2.4	e0.95	5.8	---	0.66	0.54	0.46	0.46	4.2	1.8	14
31	e4.4	---	e0.91	8.2	---	1.5	---	0.45	---	3.3	1.9	---
Total	98.5	65.3	37.32	73.03	70.94	24.64	32.66	16.41	17.01	89.40	135.2	162.5
Mean	3.18	2.18	1.20	2.36	2.53	0.79	1.09	0.53	0.57	2.88	4.36	5.42
Max	28	4.6	2.5	8.2	17	2.6	12	0.76	1.2	16	24	37
Min	1.1	1.1	0.91	0.86	0.85	0.61	0.52	0.45	0.39	0.57	1.7	1.7
Ac-ft	195	130	74	145	141	49	65	33	34	177	268	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.91	2.56	2.37	1.34	1.17	0.68	0.66	0.67	1.85	3.51	4.84	4.59
Max	4.69	5.58	7.21	2.42	2.53	1.17	1.11	1.09	12.7	16.6	11.8	8.59
(WY)	(2001)	(2002)	(2003)	(2002)	(2011)	(2008)	(2008)	(2008)	(2004)	(2002)	(2004)	(2000)
Min	1.72	1.10	0.88	0.43	0.44	0.38	0.30	0.19	0.36	0.69	1.37	1.53
(WY)	(2000)	(2009)	(2000)	(2000)	(2001)	(2000)	(2000)	(2001)	(2001)	(2010)	(2008)	(2001)

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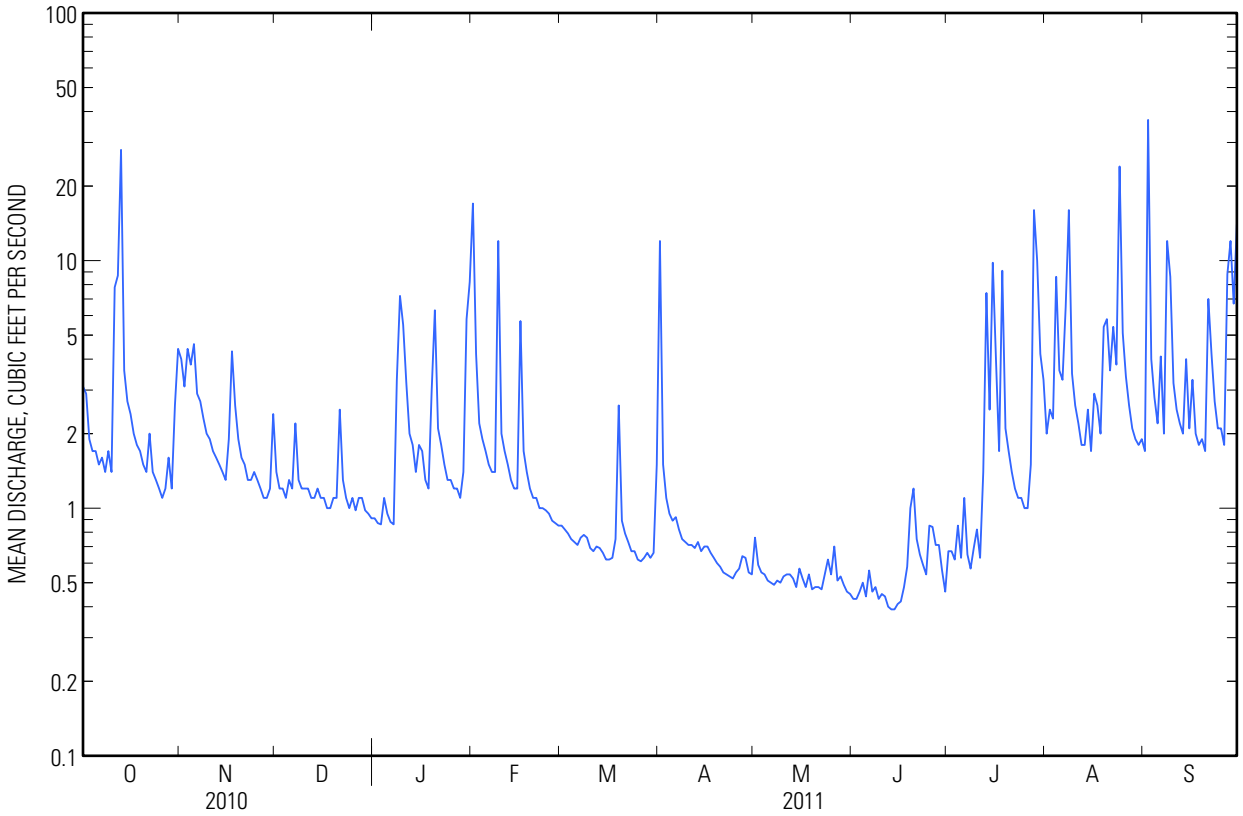
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2000 - 2011	
Annual total	499.63		822.91			
Annual mean	1.37		2.25		2.29	
Highest annual mean					4.31	2004
Lowest annual mean					1.35	2007
Highest daily mean	28	Oct 13	37	Sep 2	200	Jul 5, 2002
Lowest daily mean	0.37	May 28	0.39	Jun 13	0.15	May 19, 2001
Annual seven-day minimum	0.37	May 28	0.41	Jun 10	0.17	May 15, 2001
Maximum peak flow					1,690	Jul 5, 2002
Maximum peak stage					25.16	Jul 5, 2002
Instantaneous low flow					0.21	Apr 19, 2000
Annual runoff (ac-ft)	991		1,630		1,660	
10 percent exceeds	2.7		4.3		3.5	
50 percent exceeds	0.84		1.2		1.1	
90 percent exceeds	0.44		0.53		0.45