

**50047550 LAGO CIDRA AT DAMSITE NEAR CIDRA, PR**

RIO DE BAYAMON BASIN

LOCATION.--Lat 18°11'57", long 66°08'29" referenced to North American Datum of 1927, Cidra Municipio, PR, Hydrologic Unit 21010005, at Lago de Cidra Dam on Río de Bayamón, 1.9 mi (3 km) northeast of Cidra plaza, and 1.8 mi (2.9 km) northwest of Segunda Unidad de Bayamón School.

DRAINAGE AREA.--8.26 mi<sup>2</sup>, (21.39 km<sup>2</sup>).

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1988 to current year.

GAGE.--Water-stage recorder, satellite and radio telemetry at station. Datum of gage is mean sea level.

REMARKS.--Lago de Cidra was completed in 1946. The maximum storage is 5,300 acre-ft (6.53 hm<sup>3</sup>) and provides supplemental water to metropolitan San Juan. The dam is a concrete gravity and earthfill structure, approximately 541 ft (165 m) long between abutments with a maximum structural height of about 78.7 ft (24 m). The spillway portion of the dam, length 131 ft (40 m) and crest elevation 1,322 ft (403 m), is an ungated ogee crest located 131 ft (40 m) from the right abutment. This dam is owned by the Puerto Rico Aqueduct and Sewer Authority (PRASA). New capacity table based on US Geological Survey Water-Resources Investigations Report 99-4144, November 1997.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation 1,328.09 ft (404.8 m), September 10, 1996; minimum elevation 1,295.86 ft (394.98 m), April 22, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,325.52 ft (404.02 m), August 23; minimum elevation, 1,314.71 ft (400.72 m), April 26.

Capacity Table

(based on data from US Geological Survey Water-Resources Investigations Report 99-4144, November 1997)

(Elevation in ft, capacity in acre-ft)

Elevation	Contents	Elevation	Contents
1,260	0	1,309	2,059
1,276	97	1,315	3,170
1,296	762	1,322	4,670

## 50047550 LAGO CIDRA AT DAMSITE NEAR CIDRA, PR—Continued

**LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY OBSERVATION AT 2400 HOURS**  
**[A, No gage-height record]**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,322.25	1,322.58	1,322.32	1,322.07	1,318.30	1,316.47	1,315.79	1,316.39	1,322.49	1,322.43	1,322.40	1,322.44
2	1,322.24	1,322.66	1,322.30	1,322.13	1,318.16	1,316.40	1,315.75	1,316.52	1,322.44	1,322.60	1,322.59	1,322.43
3	1,322.44	1,322.49	1,322.28	1,322.06	1,318.01	1,316.36	1,315.68	1,316.57	1,322.42	1,322.65	1,322.94	1,322.45
4	1,322.63	1,322.58	1,322.25	1,321.97	1,317.90	1,316.31	1,315.62	1,316.56	1,322.63	1,322.45	1,322.62	1,322.46
5	1,322.48	1,322.91	1,322.21	1,321.91	1,317.85	1,316.26	1,315.56	1,316.54	1,322.59	1,322.40	1,322.46	1,322.44
6	1,323.17	1,322.62	1,322.17	1,321.81	1,317.81	1,316.22	1,315.46	1,316.46	1,322.62	1,322.39	1,322.41	1,322.50
7	1,323.75	1,322.51	1,322.14	1,321.70	1,317.81	1,316.15	1,315.33	1,316.37	1,322.67	1,322.45	1,322.42	1,322.46
8	1,322.90	1,322.52	1,322.11	1,321.59	1,317.73	1,316.07	1,315.26	1,316.30	1,322.56	1,322.42	1,322.40	1,322.55
9	1,322.57	1,322.70	1,322.21	1,321.46	1,317.63	1,316.04	1,315.21	1,316.24	1,322.53	1,322.39	1,322.38	1,322.47
10	1,322.50	1,322.54	1,322.19	1,321.34	1,317.52	1,316.00	1,315.15	1,318.27	1,322.48	1,322.38	1,322.39	1,322.48
11	1,322.48	1,322.48	1,322.16	1,321.20	1,317.42	1,315.97	1,315.07	1,318.36	1,322.46	1,322.37	1,322.36	1,322.52
12	1,322.49	1,322.45	1,322.13	1,321.08	1,317.30	1,315.94	1,315.00	1,318.38	1,322.43	1,322.50	1,322.35	1,322.46
13	1,322.47	1,322.42	1,322.09	1,321.07	1,317.23	1,315.92	1,314.92	1,318.38	1,322.40	1,322.44	1,322.39	A
14	1,322.45	1,322.42	1,322.12	1,320.94	1,317.15	1,315.90	1,315.04	1,318.50	1,322.38	1,322.61	1,322.36	A
15	1,322.44	1,322.39	1,322.21	1,320.80	1,317.07	1,315.90	1,315.09	1,318.51	1,322.37	1,322.57	1,322.34	1,322.50
16	1,322.43	1,322.38	1,322.47	1,320.65	1,316.98	1,315.89	1,315.07	1,318.76	1,322.62	1,322.48	1,322.39	1,322.45
17	1,322.42	1,322.38	1,322.37	1,320.50	1,316.90	1,315.88	1,315.00	1,319.54	1,322.46	1,322.43	1,322.39	1,322.43
18	1,322.42	1,322.38	1,322.32	1,320.35	1,316.86	1,315.86	1,314.91	1,319.67	1,322.49	1,322.44	1,322.53	1,322.41
19	1,322.41	1,322.37	1,322.28	1,320.20	1,316.88	1,315.86	1,314.82	1,319.89	1,322.49	1,322.43	1,322.57	1,322.66
20	1,322.41	1,322.37	1,322.23	1,320.04	1,316.83	1,315.89	1,314.80	1,322.73	1,322.45	1,322.41	1,322.42	1,322.47
21	1,322.41	1,322.37	1,322.17	1,319.90	1,317.03	1,315.88	1,314.80	1,322.57	1,322.42	1,322.40	1,322.97	1,322.44
22	1,322.40	1,322.46	1,322.21	1,319.76	1,316.97	1,316.06	1,314.78	1,322.51	1,322.38	1,322.50	1,324.17	1,322.60
23	1,322.44	1,322.50	1,322.16	1,319.64	1,316.89	1,316.05	1,314.76	1,322.48	1,322.36	1,322.82	1,323.98	1,322.45
24	1,322.43	1,322.40	1,322.10	1,319.48	1,316.82	1,316.04	1,314.75	1,322.45	1,322.35	1,322.51	1,322.86	1,322.41
25	1,322.41	1,322.36	1,322.05	1,319.33	1,316.76	1,316.07	1,314.72	1,322.44	1,322.36	1,322.43	1,322.63	1,322.45
26	1,322.40	1,322.36	1,322.02	1,319.17	1,316.70	1,316.05	1,314.92	1,322.41	1,322.36	1,322.48	1,322.53	1,322.65
27	1,322.41	1,322.35	1,321.98	1,319.01	1,316.65	1,316.01	1,316.26	1,322.77	1,322.43	1,322.89	1,322.49	1,322.45
28	1,322.45	1,322.34	1,322.19	1,318.85	1,316.57	1,315.96	1,316.31	1,322.78	1,322.42	1,322.63	1,322.48	1,322.41
29	1,322.48	1,322.35	1,322.30	1,318.70	---	1,315.92	1,316.30	1,322.51	1,322.40	1,322.48	1,322.46	1,322.40
30	1,322.62	1,322.34	1,322.26	1,318.60	---	1,315.88	1,316.27	1,322.45	1,322.37	1,322.42	1,322.45	1,322.39
31	1,322.47	---	1,322.13	1,318.45	---	1,315.83	---	1,322.42	---	1,322.46	1,322.44	---
<b>Mean</b>	1,322.53	1,322.47	1,322.20	1,320.51	1,317.28	1,316.03	1,315.28	1,319.57	1,322.46	1,322.49	1,322.60	---

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