50045000 LAGO LA PLATA AT DAMSITE NEAR TOA ALTA, PR

RIO DE LA PLATA BASIN

LOCATION.--Lat 18°20′40″, long 66°14′10″ referenced to North American Datum of 1927, Toa Alta Municipio, PR, Hydrologic Unit 21010005, 2.9 mi (4.7 km) at northeast of Naranjito plaza, 2.7 mi (4.3 km) west of State Road 167 km 15.3, Buena Vista, Bayamón, and 5.2 mi (8.4 km) east of Corozal plaza.

DRAINAGE AREA.--181 mi^2 of which 8.20 mi^2 probably is noncontributing, (469 km^2).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1989 to current year.

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

REMARKS.--Lago de La Plata first construction phase was completed in 1974 and the second construction phase to provide the spillway with bascule gates was completed in October 1989. The maximum storage is 37,000 acre-ft (45.6 hm^3) and its purpose is the supply of water for domestic and industrial use. Lago de la Plata Dam is a concrete gravity structure located across the Río de la Plata, the dam has an overall length of 774 ft (236 m) and a maximum height of about 131 ft (40 m). The dam spillway is provided with six bascule gates. The spillway crest has a total clear length of 690 ft (210 m), an elevation of 155 ft (47 m). The Dam is owned and operated by the Puerto Rico Aqueduct and Sewer Authority (PRASA). New capacity table based on US Geological Survey Water-Resources Investigations Report 00-4045, October 1998. Prior to October 1994, published as Lago La Plata at Damsite.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 171.64 ft (52.32 m), May 28, 2010; minimum elevation, 107.95 ft (32.9 m), February 21, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 170.47 ft (51.96 m), May 10; minimum elevation, 165.21 ft (50.36 m), August 22.

Capacity Table

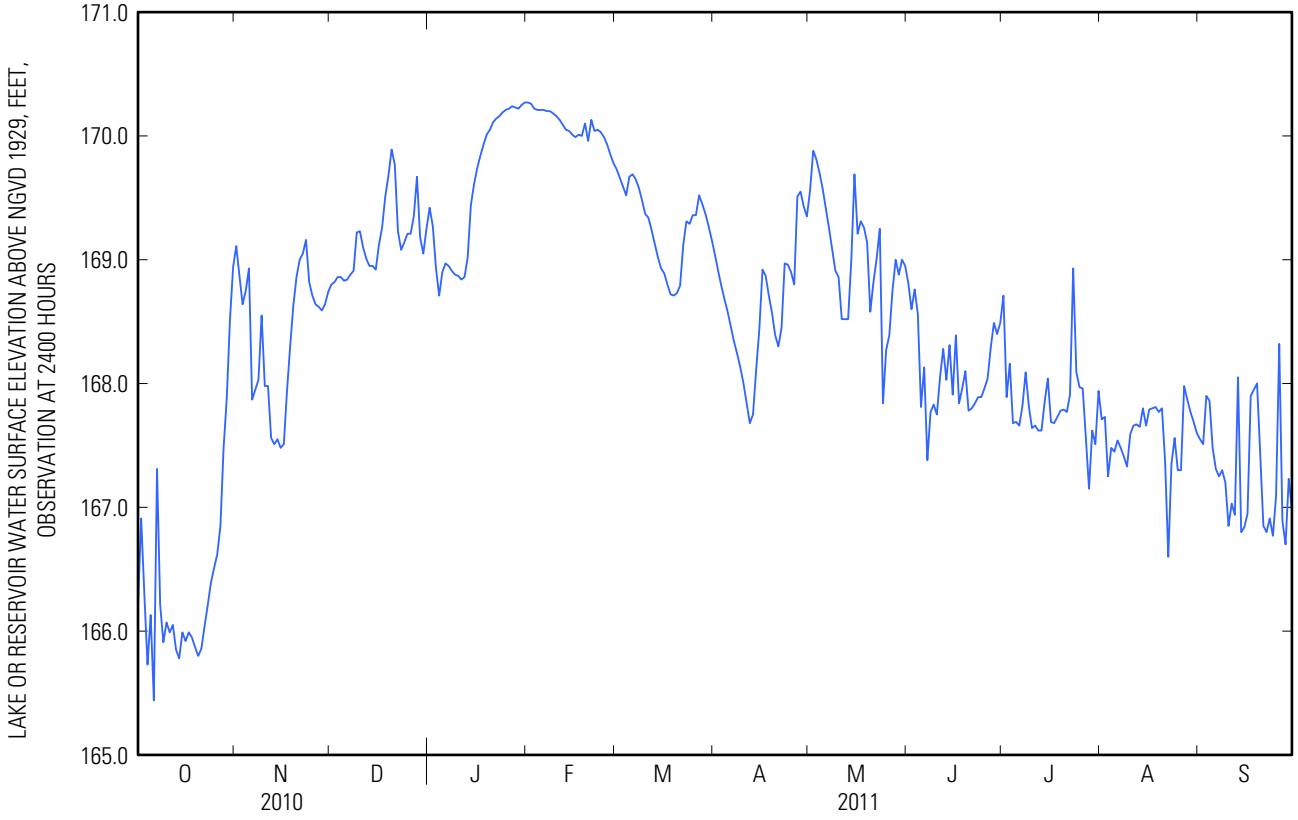
(based on data from US Geological Survey Water-Resources Investigations Report 00-4045, October 1998)

(Elevation in ft, capacity in acre-ft)

Elevation	Contents	Elevation	Contents
82	0	144	12,915
105	1,873	164	24,021
125	5,943	171	28,748

50045000 LAGO LA PLATA AT DAMSITE NEAR TOA ALTA, PR—Continued

LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	166.20	169.11	168.80	169.42	170.27	169.73	169.04	169.56	168.81	168.71	167.71	167.55
2	166.91	168.87	168.82	169.27	170.26	169.66	168.91	169.88	168.60	167.89	167.73	167.51
3	166.30	168.64	168.86	168.93	170.22	169.59	168.79	169.81	168.76	168.16	167.25	167.90
4	165.73	168.75	168.86	168.71	170.21	169.52	168.68	169.70	168.56	167.68	167.48	167.86
5	166.13	168.93	168.83	168.90	170.21	169.67	168.58	169.57	167.81	167.69	167.45	167.48
6	165.44	167.87	168.84	168.97	170.21	169.69	168.46	169.41	168.13	167.66	167.54	167.31
7	167.31	167.95	168.88	168.95	170.20	169.65	168.34	169.25	167.38	167.82	167.48	167.25
8	166.21	168.03	168.91	168.91	170.20	169.58	168.24	169.08	167.77	168.09	167.41	167.30
9	165.91	168.55	169.22	168.88	170.18	169.48	168.13	168.91	167.83	167.82	167.33	167.20
10	166.07	167.98	169.23	168.87	170.16	169.37	168.00	168.86	167.75	167.64	167.59	166.85
11	165.99	167.98	169.10	168.84	170.13	169.34	167.84	168.52	168.05	167.66	167.66	167.03
12	166.05	167.56	169.01	168.86	170.09	169.24	167.68	168.52	168.28	167.62	167.67	166.94
13	165.85	167.51	168.95	169.02	170.05	169.13	167.75	168.52	168.03	167.62	167.65	168.05
14	165.78	167.55	168.95	169.44	170.04	169.02	168.11	168.99	168.31	167.85	167.80	166.80
15	165.99	167.48	168.92	169.61	170.01	168.93	168.44	169.69	167.91	168.04	167.66	166.84
16	165.92	167.51	169.12	169.74	169.99	168.89	168.92	169.21	168.39	167.69	167.79	166.95
17	165.99	167.94	169.26	169.84	170.01	168.80	168.87	169.31	167.84	167.68	167.80	167.90
18	165.95	168.30	169.51	169.93	170.00	168.72	168.71	169.26	167.96	167.73	167.81	167.95
19	165.87	168.63	169.68	170.01	170.10	168.71	168.57	169.14	168.10	167.78	167.77	168.00
20	165.80	168.86	169.89	170.05	169.96	168.73	168.39	168.58	167.78	167.79	167.80	167.43
21	165.86	169.00	169.77	170.11	170.13	168.79	168.30	168.82	167.80	167.77	167.37	166.85
22	166.04	169.05	169.23	170.14	170.04	169.12	168.45	169.01	167.84	167.91	166.60	166.80
23	166.21	169.16	169.08	170.16	170.05	169.31	168.97	169.25	167.89	168.93	167.35	166.91
24	166.39	168.82	169.14	170.19	170.03	169.29	168.96	167.84	167.89	168.09	167.56	166.77
25	166.51	168.71	169.21	170.21	169.99	169.36	168.90	168.27	167.96	167.97	167.30	167.09
26	166.62	168.64	169.21	170.22	169.93	169.36	168.80	168.39	168.04	167.96	167.30	168.32
27	166.85	168.62	169.35	170.24	169.85	169.52	169.51	168.75	168.29	167.56	167.98	166.89
28	167.48	168.59	169.67	170.23	169.78	169.45	169.55	169.00	168.49	167.15	167.87	166.70
29	167.88	168.64	169.18	170.22	---	169.37	169.43	168.88	168.40	167.62	167.77	167.23
30	168.51	168.74	169.05	170.25	---	169.27	169.35	169.00	168.49	167.51	167.69	166.98
31	168.94	---	169.25	170.27	---	169.16	---	168.95	---	167.94	167.60	---
Mean	166.41	168.40	169.15	169.59	170.08	169.27	168.62	169.03	168.10	167.84	167.57	167.29

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