50032290 LAGO EL GUINEO AT DAMSITE NEAR VILLALBA, PR

RIO GRANDE DE MANATI BASIN

LOCATION.--Lat 18°09′42″, long 66°31′38″ referenced to North American Datum of 1927, Barranquitas Municipio, PR, Hydrologic Unit 21010002, at damsite on Río Toro Negro, 3 mi (4.8 km) northwest from Villalba plaza, and 1.9 mi (3.1 km) northeast of Cerro Maravillas. The reservoir itself fixes the territorial limits between the municipalities of Ciales and Orocovis.

DRAINAGE AREA.--1.64 mi^2, (4.25 km^2).

SURFACE-WATER RECORDS

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

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

COOPERATION.--Puerto Rico Electrical Power Authority (PREPA).

REMARKS.--Lago El Guineo was completed in 1931. It provides a maximum storage of approximately 2,180 acre-ft (2.688 hm^3) for power and irrigation. Waters are discharged through an outlet power tunnel into the Rio Toro Negro and conveyed to the head water works of Toro Negro Hydroelectric Plant No. 2, for energy generation at the Toro Negro Hydroelectric Plant No. 1, and are discharged into the Lago Guayabal Reservoir to be later used for irrigation at South Coast Irrigation System. The dam is rockfill with a vertical concrete corewall, rock toes, and riprap facing of upstream slope, with a total length of 565 ft (172 m), a maximum structural height of 125 ft (38 m) to top of corewall. At a maximum reservoir water surface elevation the uncontrolled morning-glory tunnel spillway crest has an elevation of 2,960 ft (902 m) above mean sea level and a design capacity of 7,000 ft^3/s. The dam is owned by the Puerto Rico Electric Power Authority (PREPA). Prior to October 1994, published as Lago El Guineo at Damsite.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation 2,964.94 ft (903.71 m), August 23, 2011; minimum elevation 2,919.79 ft (889.95 m), May 27, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,961.61 ft (902.70 m), August 24; minimum elevation, 2,955.95 ft (900.97 m), September 27.

Capacity Table

(based on data from US Geological Survey Water-Resources Investigations Report 99-4143, 1996)

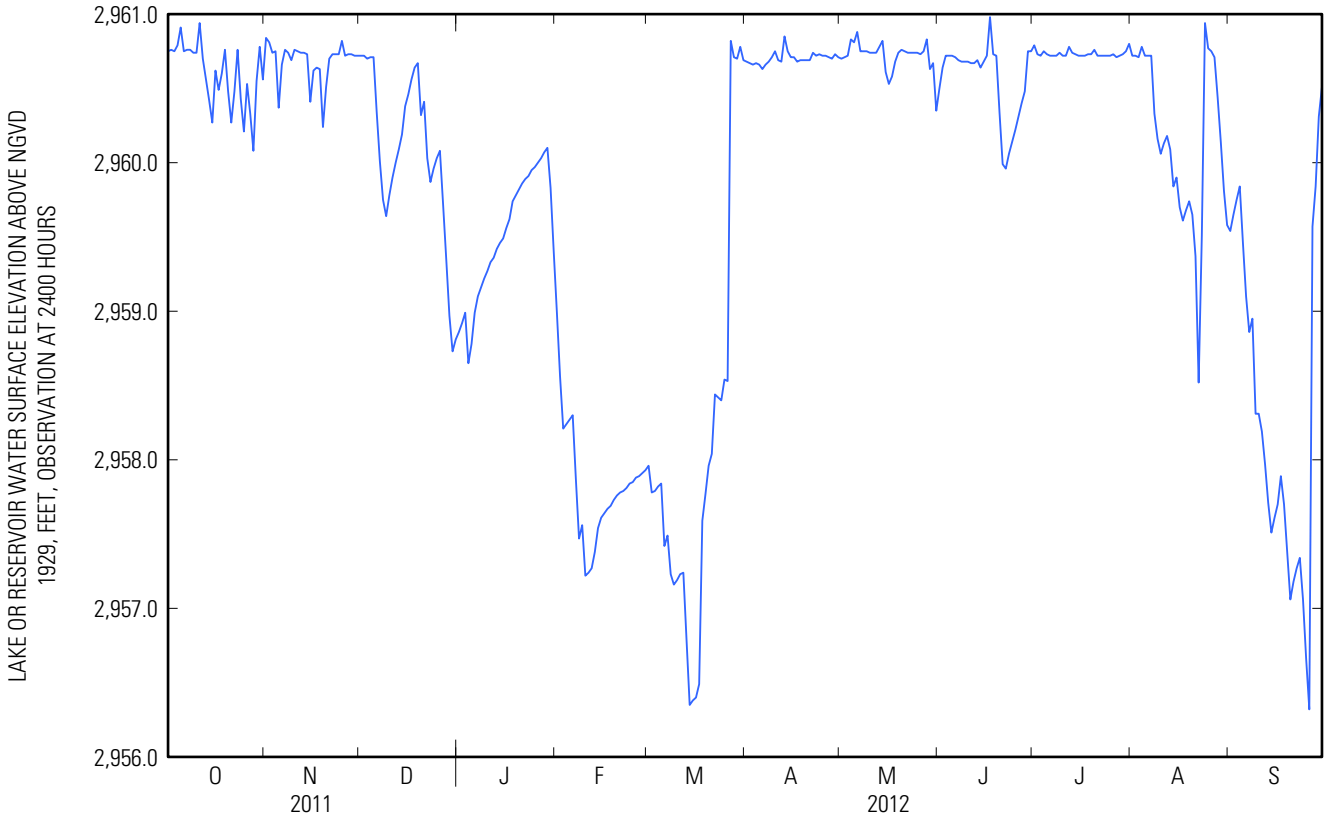
(Elevation in ft, capacity in acre-ft)

Elevation	Contents	Elevation	Contents
2,872	0	2,950	1,308
2,919	361	2,961	1,852
2,925	491	2,966	2,180
2,943	1,029		

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 50032290, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/50032290.2012.pdf

50032290 LAGO EL GUINEO AT DAMSITE NEAR VILLALBA, PR—Continued

LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,960.75	2,960.84	2,960.72	2,958.86	2,958.99	2,957.96	2,960.68	2,960.70	2,960.50	2,960.79	2,960.72	2,959.54
2	2,960.76	2,960.81	2,960.72	2,958.92	2,958.56	2,957.78	2,960.67	2,960.71	2,960.64	2,960.73	2,960.72	2,959.65
3	2,960.75	2,960.74	2,960.70	2,958.99	2,958.21	2,957.79	2,960.66	2,960.72	2,960.72	2,960.72	2,960.71	2,959.75
4	2,960.79	2,960.75	2,960.71	2,958.65	2,958.24	2,957.82	2,960.67	2,960.83	2,960.72	2,960.75	2,960.78	2,959.84
5	2,960.91	2,960.37	2,960.71	2,958.78	2,958.27	2,957.84	2,960.66	2,960.81	2,960.72	2,960.73	2,960.72	2,959.46
6	2,960.75	2,960.66	2,960.34	2,958.99	2,958.30	2,957.42	2,960.63	2,960.88	2,960.71	2,960.72	2,960.72	2,959.10
7	2,960.76	2,960.76	2,960.01	2,959.10	2,957.87	2,957.49	2,960.66	2,960.75	2,960.69	2,960.72	2,960.72	2,958.86
8	2,960.76	2,960.74	2,959.75	2,959.16	2,957.47	2,957.23	2,960.68	2,960.75	2,960.68	2,960.72	2,960.33	2,958.95
9	2,960.74	2,960.69	2,959.64	2,959.22	2,957.56	2,957.16	2,960.71	2,960.75	2,960.68	2,960.74	2,960.16	2,958.31
10	2,960.74	2,960.76	2,959.78	2,959.27	2,957.22	2,957.19	2,960.75	2,960.74	2,960.68	2,960.72	2,960.06	2,958.31
11	2,960.94	2,960.75	2,959.90	2,959.33	2,957.24	2,957.23	2,960.69	2,960.74	2,960.67	2,960.72	2,960.13	2,958.19
12	2,960.70	2,960.74	2,960.00	2,959.36	2,957.27	2,957.24	2,960.68	2,960.74	2,960.67	2,960.78	2,960.18	2,957.97
13	2,960.56	2,960.74	2,960.09	2,959.42	2,957.38	2,956.79	2,960.85	2,960.78	2,960.69	2,960.74	2,960.09	2,957.71
14	2,960.42	2,960.73	2,960.19	2,959.46	2,957.54	2,956.35	2,960.75	2,960.82	2,960.64	2,960.73	2,959.84	2,957.51
15	2,960.27	2,960.41	2,960.38	2,959.49	2,957.61	2,956.38	2,960.71	2,960.61	2,960.68	2,960.72	2,959.90	2,957.61
16	2,960.62	2,960.62	2,960.46	2,959.56	2,957.64	2,956.40	2,960.71	2,960.53	2,960.72	2,960.72	2,959.70	2,957.70
17	2,960.49	2,960.64	2,960.56	2,959.62	2,957.67	2,956.49	2,960.68	2,960.58	2,960.98	2,960.72	2,959.61	2,957.89
18	2,960.60	2,960.63	2,960.64	2,959.74	2,957.69	2,957.59	2,960.69	2,960.68	2,960.73	2,960.73	2,959.68	2,957.70
19	2,960.76	2,960.24	2,960.67	2,959.78	2,957.73	2,957.77	2,960.69	2,960.74	2,960.72	2,960.73	2,959.74	2,957.38
20	2,960.48	2,960.51	2,960.32	2,959.82	2,957.76	2,957.96	2,960.69	2,960.76	2,960.34	2,960.76	2,959.65	2,957.06
21	2,960.27	2,960.70	2,960.41	2,959.86	2,957.78	2,958.04	2,960.69	2,960.75	2,959.99	2,960.72	2,959.37	2,957.18
22	2,960.48	2,960.73	2,960.03	2,959.89	2,957.79	2,958.44	2,960.74	2,960.74	2,959.96	2,960.72	2,958.52	2,957.27
23	2,960.76	2,960.73	2,959.87	2,959.91	2,957.81	2,958.42	2,960.72	2,960.74	2,960.06	2,960.72	2,959.51	2,957.34
24	2,960.43	2,960.73	2,959.96	2,959.95	2,957.84	2,958.40	2,960.73	2,960.74	2,960.14	2,960.72	2,960.94	2,957.06
25	2,960.21	2,960.82	2,960.03	2,959.97	2,957.85	2,958.54	2,960.72	2,960.74	2,960.22	2,960.72	2,960.77	2,956.66
26	2,960.53	2,960.72	2,960.08	2,960.00	2,957.88	2,958.53	2,960.72	2,960.73	2,960.31	2,960.73	2,960.75	2,956.32
27	2,960.33	2,960.73	2,959.72	2,960.03	2,957.89	2,960.82	2,960.71	2,960.75	2,960.40	2,960.71	2,960.71	2,959.57
28	2,960.08	2,960.73	2,959.35	2,960.07	2,957.91	2,960.71	2,960.70	2,960.83	2,960.48	2,960.72	2,960.44	2,959.84
29	2,960.55	2,960.72	2,958.97	2,960.10	2,957.93	2,960.70	2,960.73	2,960.63	2,960.75	2,960.73	2,960.14	2,960.31
30	2,960.78	2,960.72	2,958.73	2,959.83	---	2,960.78	2,960.71	2,960.67	2,960.75	2,960.75	2,959.81	2,960.51
31	2,960.56	---	2,958.81	2,959.40	---	2,960.69	---	2,960.35	---	2,960.80	2,959.58	---
Mean	2,960.60	2,960.68	2,960.07	2,959.50	2,957.82	2,958.06	2,960.70	2,960.72	2,960.55	2,960.73	2,960.15	2,958.35

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