15225990 SOLOMON LAKE NEAR VALDEZ

LOCATION.--Lat 61°04′25″, long 146°18′08″, in NE$^1/_4$ SW$^1/_4$ sec. 21, T. 9 S.,R. 6 W.(Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, at outlet of Solomon Lake, 0.7 mi upstream from mouth of Solomon Gulch, and 4.6 mi southeast of Valdez.

DRAINAGE AREA.--19.2 mi^2.

PERIOD OF RECORD.--October 1991 to current year. Additional unpublished records prior to period of record available from Copper Valley Electric Association and in station files of Geological Survey.

REMARKS.--Reservoir is formed by a rockfill dam at outlet of Solomon Lake. Reservoir is used for power; power-plant operation began January 6, 1982. Usable capacity is 31,500 acre-feet below spillway crest at 685 ft. Discharge released to the penstocks is accounted for at Solomon Gulch Tailrace (station 15225996). Releases through the dam to maintain minimum flows, spillway releases, and incremental flow are accounted for at the Solomon Gulch at top of falls gage (station 15225997).

COOPERATION.--Reservoir contents furnished by Copper Valley Electric Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 32,500 acre-ft, September 21, 1993, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 2,167 acre-ft, May 1, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 32,100 acre-ft August 24, elevation, 686.28 ft, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 3,750 acre-ft, April 24, elevation, 624.0 ft.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	684.4	31,000	----
OCT 31	680.2	27,800	-3,200
NOV 30	675.0	24,800	-3,000
DEC 31	668.1	21,100	-3,700
JAN 31	657.6	15,800	-5,300
FEB 28	648.0	11,800	-4,000
MAR 31	632.5	6,170	-5,630
APR 30	629.1	5,080	-1,090
MAY 31	675.2	24,900	+19,820
JUN 30	685.0	31,500e	+6,600e
JUL 31	685.2	31,600e	+100e
AUG 31	684.2	30,900	-700
SEP 30	684.9	31,400	+500
		CAL YR 2004	+700
		WTR YR 2005	+400

e Estimated