

SOUTH-CENTRAL ALASKA

15225990 SOLOMON LAKE NEAR VALDEZ

LOCATION.--Lat 61°04'25", long 146°18'08", in NE¹/₄ SW¹/₄ 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 mi².

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 Additional unpublished records prior to period of record available from Copper Valley Electric Association and in station files of Geological Survey.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 September 30, elevation, 686.14 ft, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 4,070 acre-ft, April 30 and May 1, elevation, 625.3 ft.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	684.6	31,100	----
OCT 31	678.3	26,600	-4,500
NOV 30	672.8	23,500	-3,100
DEC 31	666.8	20,400	-3,100
JAN 31	658.2	16,100	-4,300
FEB 29	649.7	12,500	-3,600
MAR 31	638.5	8,170	-4,330
APR 30	625.6	4,150	-4,020
MAY 31	648.8	12,100	+7,950
JUN 30	673.6	24,000	+11,900
JUL 31	678.4	26,700	+2,700
AUG 31	----	25,300e	-1,400e
SEP 30	684.4	30,900	+5,600e
		CAL YR 2003	-3,600
		WTR YR 2004	-200

e Estimated