

**ANNUAL REPORT
to the
INTERNATIONAL JOINT COMMISSION
from the
INTERNATIONAL OSOYOOS LAKE BOARD OF CONTROL
for
CALENDAR YEAR 1995**

1. ACTIVITIES OF THE BOARD

The International Osoyoos Lake Board of Control was established on February 12, 1986, by the International Joint Commission to carry out the provisions of the Commission Order of Approval dated December 9, 1982, and the Supplementary Order of Approval dated October 17, 1985.

The Board met in Osoyoos, B.C., on September 28, 1995, and also held a public meeting that day.

2. OPERATION AND MAINTENANCE OF ZOSEL DAM

a. Osoyoos Lake Elevations

Levels of Osoyoos Lake were controlled by Zosel Dam throughout the year in accordance with criteria specified in the Order of Approval. The authorized range of normal operating elevations, 909.0 to 911.5 feet, is shown by the blue area in appendix I. The grey area on appendix I shows the authorized range of elevations, 910.5 to 913.0 feet, that may be used to provide additional storage from April 1 to October 31 if drought conditions are declared by the Board. Drought conditions did not occur and criteria for normal operation applied during the year.

Recorded lake elevations for water years 1992-95 are shown on appendix I.

Data on Osoyoos Lake levels and relevant river flows are summarized in appendix II.

b. Drought Operation

Drought conditions did not occur during the year.

c. Zosel Dam

The Oroville-Tonasket Irrigation District operated Zosel Dam under the authority of the State of Washington, Department of Ecology. Levels on Osoyoos Lake were maintained for the year in accordance with the Commission's Orders of Approval.

3. IMPROVEMENTS TO THE OKANOGAN RIVER CHANNEL

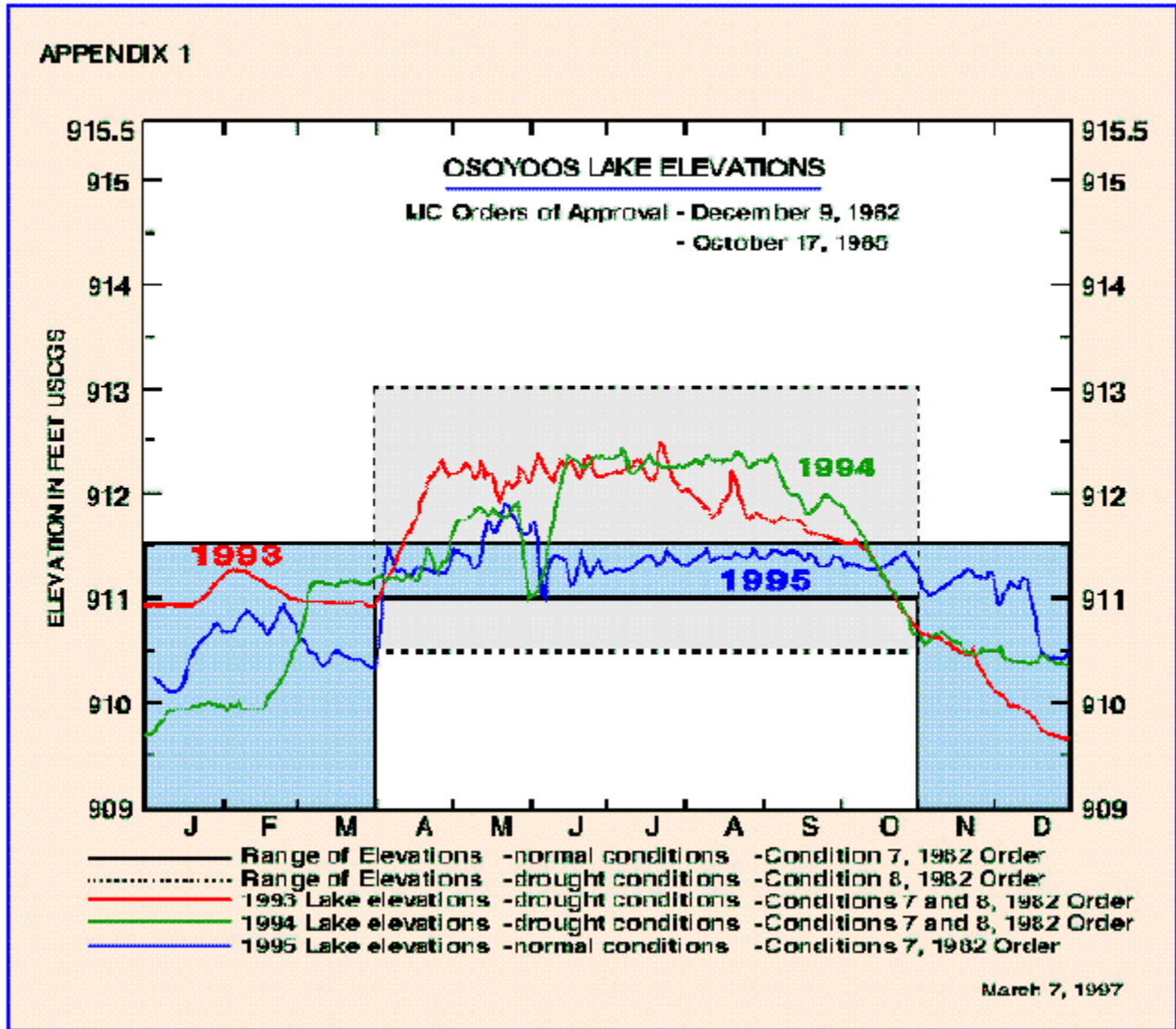
The Board has obtained confirmation from the State regarding the capacities of the Okanogan River Channel. Water is able to be moved out of the lake, through the channel, and past the dam at a rate of 2,500 cubic feet per second with the lake at elevation 913.0 and no appreciable backwater effect from the Similkameen River.

The detailed results of the 1993 model runs will appear in the State's annual Zosel Dam Report to the Board of Control.

The maximum instantaneous flow on the Okanogan River occurred on May 20 at Oroville and was 2,430 cubic feet per second. Osoyoos Lake was at elevation 911.97 feet, and the Okanogan

River at Oroville was in backwater from the Similkameen River on that day.

The maximum elevation on Osoyoos Lake occurred on May 20 at 912.03 feet, and the mean daily discharge was 2,300 cubic feet per second at Okanogan River at Oroville for that day.



APPENDIX II.— OSOYOOS LAKE LEVELS, INFLOWS, AND OUTFLOWS

A. International gaging stations in operation throughout the year:

(1) For Stage Records

Osoyoos Lake near Oroville, Washington

Okanagan River at Oroville, Washington (auxiliary gage)

(2) For Discharge Records

Okanagan River near Oliver, British Columbia

Okanagan River near Oroville, Washington (base gage)

Similkameen River near Nighthawk, Washington

(3) Reports

Monthly summary reports of stage and discharge data were forwarded to the International Joint Commission and to the Board of Control members.

B. Compliance with the lake levels specified in the Orders of Approval is measured at the station "Osoyoos Lake near Oroville," where elevations are expressed in terms of USCGS datum.

C. Osoyoos Lake

Maximum daily mean elevation	277.968 meters (911.97 feet)	- May 20
Maximum instantaneous elevation	277.987 meters (912.03 feet)	- May 20
Minimum instantaneous elevation	277.403 meters (910.12 feet)	- January 8 and 9

D. Okanagan River at Oroville

Maximum instantaneous discharge	68.8cms (2,430 cfs)	- May 20
Maximum daily mean discharge	65.4 cms (2,310 cfs)	- May 21
Annual mean discharge	19.4 cms (686 cfs)	

The annual mean discharge was 163 percent of the 53-year average.

E. Similkameen River near Nighthawk

Maximum instantaneous discharge	456 cms (16,100 cfs)	- November 30
Maximum daily mean discharge	408 cms (14,400 cfs)	- November 30

High river discharges and stages created backwater conditions for the Okanagan River at Oroville gaging station on May 9 to June 24 and November 29 to December 4.