

From available records it was determined that the maximum and minimum flows of the Thompson River at Spences Bridge were 146,000 second feet and 4,100 second feet with a long term mean flow of 26,100 second feet. The comparable figures for the Fraser River at Hope were found to be 536,000 second feet, 12,000 second feet, and 92,300 second feet, respectively.

The report found that with no regulation of the stream flow the theoretical firm potential of the Thompson River from Kamloops to Lytton, and of the Fraser River from Lytton to Hope would be less than 1,000,000 horse power, and that physical conditions are such as to make it uneconomic to develop this power. However, by means of storage independent of the Columbia diversion it was found practical to increase the firm capacity to the point where the four sites on the Fraser below Lytton and the Gladwin site on the Thompson totalling 2,433,000 horse power would approach economic feasibility. By means of the diversion of 10,000,000 acre-feet of water annually from the Columbia, four additional sites on the Thompson achieve economic feasibility and head can be developed on the Eagle River. Under this condition the gross installed capacity along the route could approach 7,000,000 horse power.

Total development was planned over a 20-year period. Capital cost of the various structures and equipment was estimated at \$2,234,700,000. However, this does not include the cost of the Mica Creek and Revelstoke Canyon dams essential to the project. It was assumed that the annual cost of power production would be 9.5 per cent of the capital cost.

Conclusions

The report presents the following summary of data and the conclusion derived from the study:-

SUMMARY

Details of the results of this investigation are reported in succeeding chapters. The essence of these results is represented by the following figures:

<u>Item</u>	<u>Without Columbia Diversion</u>	<u>With Columbia Diversion</u>
Installation - KW	1,816,000	5,210,000
Capital Cost - Millions of Dollars	938.2	2,234.7
Capital Cost - per Unit KW in Dollars	516.0	429.0