

Surprise Rapids Reservoir, pumping and associated diversion works through the Rocky Mountains, and transferring of water from the North Saskatchewan River system to the South Saskatchewan River system.

The annual unit cost was estimated to be \$10.50 per acre-foot of diverted water delivered to the South Saskatchewan system. The cost estimates did not provide any compensation for adverse effects on Columbia River Basin developments. (See footnote at bottom of page 3.)

(c) Diversions from the Upper Columbia-Kootenay Reaches into the South Saskatchewan River

Three alternative schemes were studied for the diversion of water from the Columbia River basin directly into the South Saskatchewan system. Two of these schemes would involve diversions from reservoirs on the upper reach of the Columbia River with water supplemented by diversion from the Kootenay River. In both schemes, the water would be delivered into Bow River, a tributary of the South Saskatchewan River. The third scheme would involve diversion from the Kootenay and Elk Rivers through the Rocky Mountains into Oldman River, a tributary of the South Saskatchewan River.

Diversions under these three schemes have the advantage of directly reaching the South Saskatchewan system without the need of subsequent re-routing of flows from either or both the Athabaska and North Saskatchewan Rivers.

Of the three alternative schemes, diversions from the Kootenay and Elk Rivers were found to yield the lowest annual unit cost. For a diversion of 5,000,000 acre-feet of water annually, the annual unit cost was estimated to be \$7.60 per acre-foot. The cost estimates did not