

provinces and the federal government and the various agencies concerned. This was done after consultation with representatives of the various provinces to get a complete coverage of the agencies in those provinces that had responsibility in some field of water management or water survey.

Mr. HOPKINS: Is there any discussion or are there any plans in the making now that would indicate that water resources in Canada will be a topic at any future dominion-provincial conference.

Mr. PATTERSON: The Canadian council of resource ministers have plans afoot at the present time. The secretariat is preparing material covering the water activities across the country and the council, I believe, has plans for looking into this matter further.

Mr. HOPKINS: Throughout this discussion, reference has been made to costs of operating the Department in regard to research of this type; has any estimation ever been made of the cost of a program that would give us an accurate survey of the water resources in Canada?

Mr. PATTERSON: No; I do not think there has ever been an over-all cost prepared and this is a very difficult thing to arrive at. The costs of operation in the north, of course, are much greater than in the populated areas of the country. Costs in different areas and under different conditions vary greatly. I recall that when we installed a gauge on the Churchill River, in Labrador, in Newfoundland, I think it cost us \$57,000 to install that one gauge. I also recall that a gauge we required be placed on the Niagara River by the power entities cost them \$110,000. Then in some areas where you install a staff gauge, the labour involved in installing that is very small indeed. Automatic gauges, of course, run around possibly \$500, just the instrument that you put in, but the installation of it in these out of the way places. It may be in rock; it may be in earth, and you may have to channel very deeply and run your intake pipe a considerable distance out into the water where the range and stage are very great.

The CHAIRMAN: I am sure, Mr. Patterson, that money spent in Newfoundland and Labrador could not be better spent.

Mr. HOPKINS: Which brings me to a thought which is very close to my heart. I would suggest that there is another place where it could be very well spent and that is in the Ottawa valley. In this recent survey or study into the Ottawa River basin, does this study include the possibilities of navigation of the Ottawa River?

Mr. PATTERSON: No. With respect to the possibility of canalizing the Ottawa River, no such study was made.

Mr. HOPKINS: The main purpose of this study into the Ottawa River basin I presume is on pollution, is it?

Mr. PATTERSON: No, sir. The main purpose was to ascertain the amount of water that is in the basin, that nature supplies to the basin, and a better method of regulating it for the various purposes that the water might be used.

Mr. HOPKINS: Earlier in the discussion the NAWAPA scheme was mentioned. Is the NAWAPA scheme not American born?