

The average pump lift at this point will be about 28 feet. The water supply will be relifted an average of 71 feet from Byron Reservoir and conveyed northward through the East Main Canal to serve irrigable lands east of the James River.

These major facilities will be supplemented by distribution canals, laterals, and pumping plants to deliver water to the land, and the necessary drainage facilities will be provided. Power for pumping will be obtained from the Missouri River Basin power system.

Delivery of water to municipalities and fish and wildlife habitat areas will be at canalside of the system constructed primarily to serve irrigable lands.

The total water requirement for the initial stage will average 563,900 acre-feet annually. Diversion from Lake Oahe will supply about 72 percent of this amount or 408,400 acre-feet, 10,800 acre-feet will be obtained from recaptured return flows carried by the James River in the Lake Plain area, and the remaining 50,700 acre-feet will be obtained from natural flows of the James River.

Fish and wildlife areas will require an average of 19,800 acre-feet annually, municipal and industrial requirements for the 17 communities will total about 26,600 acre-feet annually, and irrigation demands will require 517,500 acre-feet annually.

Senator BURDICK. Could I ask a question before you get into that area?

Will the unused water continue down the James River?

Mr. HOLUM. Yes. We will be making use of the natural flows of the James River.

Senator BURDICK. Under the Garrison project, any—

Mr. HOLUM. There will be some return flows from the Garrison diversion project but a very minor amount into the James River as it is planned now.

Do you have that figure, Mr. Casey?

Mr. CASEY. If the question goes to the Garrison return flows into the James, most of those go into the Red River system.

Senator BURDICK. The Garrison diversion unit plan calls for return flows to the James?

Mr. HOLUM. Yes, there will be some. I take it we are not in a position to tell you exactly.

Senator BURDICK. Will you be able to supply that information to the committee?

Mr. HOLUM. Yes, we will.

(The information requested is as follows:)

Section 3 of the Act of August 5, 1965, to make certain provision in connection with the construction of the Garrison Diversion Unit, Missouri River basin project, provides among other things that the Secretary of the Interior shall give consideration, to returning to the Missouri River to the fullest extent practicable, such of the return flows as are not required for beneficial purposes.

Such return flows from the Garrison Diversion Unit as might otherwise accrue to the Sheyenne and Souris Rivers and thus flow into the Red River of the North, would if found to be practicable, be returned to the James River, a tributary to the Missouri. As the studies required implicitly by the above-cited Section 3 have not been completed, it cannot be stated at this time what the magnitude of this return flow resource would be. If and when such flows can be feasibly returned they would contribute to the water resources available to the Oahe Unit from the James River. To this extent pumping from the Missouri River could be reduced to the overall economic and financial advantage of the Oahe Unit.