

MAY 26 1952

Mr. E. O. Larsen, Chairman  
Bear River Compact Commission

Dear Sir:

The Bear River Compact Engineering Committee held a meeting in the Governor's Board Room, State Capitol Building, on May 26, 1952. This memorandum will serve as a report of the meeting and transmittal of the Committee's report on "The Bear River Irrigation Reserve Method of Compacting on Upstream Storage." Messrs. Crandall and Persen were unable to attend the meeting but were represented as noted below:

U. S. Geological Survey	W. V. Iorns, Chairman
Representing Wyoming	L. C. Bishop
	David Miller
Representing Idaho	M. R. Kulp
	F. M. Cooper
Representing Utah	C. O. Roskelley
	Joseph Tracy
Representing Bureau of Reclamation	E. K. Thomas

Others present were:

E. G. Thorum, Utah Power & Light Company  
J. L. Weidman, Box Elder County Water Users  
Cloyd Christensen, Bureau of Reclamation  
W. N. Jibson, U. S. Geological Survey

Committee action and recommendations on items considered are as follows:

1. The final draft of the Committee's report on "A Bear Lake Irrigation Reserve Method of Compacting on Upstream Storage" was studied and approved. It was recommended that the report as approved be submitted to the Compact Commission.

2. Percentage distribution figures for Article IV Upper Division, revised draft dated January 25, 1952.

The following tabulation on adjudicated and irrigated acreages in the several river section of the Upper Division was presented to the Committee.

	Adjudicated Acreage	Percent of Total	Planimetered Acreage	Percent of Total
Upper Utah Section	480	0.564	480	0.558
Upper Wyoming Section	42,298	49.738	42,485	49.336
Lower Utah Section	33,806*	39.753	34,870	40.493
Lower Wyoming Section	8,457	9.945	8,278	9.613
Totals	85,041	100.00	86,113	100.00

\*Does not include border strips of willow and waste lands as were included in Wyoming adjudications. These areas have been included in planimetered acreage.

As defined in the compact draft all lands irrigated by the Hilliard East Fork, Lannon, Hilliard West Side, Chapman, Francis Lee and Bear River canals are included in the Upper Wyoming Section. Also as defined in the compact draft all B. O. West Side lands are included in the Lower Utah Section. The figure of 7,889 acres for Chapman Canal in Utah was used in the compilation.

The Committee recommended the adoption of the following percentage figures for Article IV-A-1-2-a-(1)

Upper Utah Section diversions	0.6 percent
Upper Wyoming Section diversions	49.3 percent
Lower Utah Section diversions	40.5 percent
Lower Wyoming Section diversions	9.6 percent

3. After discussion of the several possible conditions of stream water supply distribution which may exist in the Upper Division, when the percentage divisions cannot be satisfied as specified, the Committee recommended that the following or similar provisions be submitted to the Drafting Committee for consideration:

"Provided that should any river section not divert its full allocation, the unused portion may, so far as possible, be divided among the other river sections on the basis of their proportional shares, but no continuing right shall be established thereby."

"Provided, further, that should the available supplies be so dispersed in the Division that the percentage allocations cannot be satisfied, then the available supply common to two or more river sections shall be divided between these sections on the basis of their proportional shares, but no continuing right shall be established thereby."

"Provided, further, that any river section may divert all the available supply in its respective reach of the river if such diversion does not cause the available supply in a downstream section of the division to be decreased below its specified percentage."

4. The Committee discussed the probable depletion of stream flow due to future stock water ponds and land treatment programs which may take place in the future. It was the general consensus of opinion of the Committee that:

a. Because of the characteristics of the Bear River drainage basin depletion of stream flow due to stock water ponds, providing they are limited to 20 acre-feet, will not become an appreciable item.

b. The depletion which may occur due to range and land treatment programs outside of the irrigated areas, provided water spreading is not included, will not materially affect the water supply.

Sincerely,  
*W. V. Iorns*  
W. V. Iorns, Chairman  
Engineering Committee