

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ECONOMICS

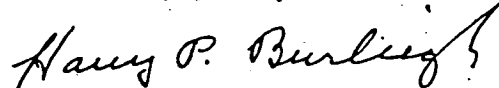
Topeka, Kansas,
January 27, 1941.

Mr. Geo. S. Knapp, Chairman,
Republican River Interstate Compact Commission,
Topeka, Kansas.

Dear Mr. Knapp:

Find attached hereto two tables indicating the approximate recommendations for consumptive water use, by basins and states, that are contained in the Bureau of Agricultural Economics report relating to this basin. It is hoped that this is adequate reply to the inquiry of yourself and fellow commissioners.

Very truly yours,



Harry P. Burleigh,
Hydraulic Engineer,
Bureau of Agricultural Economics

HPB:MM

SUMMARY OF IRRIGATION RECOMMENDATIONS
BY
COMPONENT BASINS
OF
REPUBLICAN RIVER

Basins	Acreage Recommended	Estimated Annual Consumptive Use of Water in Acre Feet
Main Republican between Bankelman, Neb. and the Harlan-Furnas Co. line	43,100	64,650
Main Republican between Harlan-Furnas Co. line and the Nebraska-Kansas State line	27,900	30,690
North Fork Republican	0	
Arikaree River	4,400	6,600
South Fork Republican	4,580	6,870
Frenchman Creek	9,000	13,500
Blackwood & Red Willow creeks	*	
Medicine & Deer creeks	13,400	20,100
Beaver Creek	12,200	15,860
Sappa Creek	5,230	6,800
Prairie Dog Creek	4,950	6,430
Total	124,830	171,500

SUMMARY OF IRRIGATION RECOMMENDATIONS
BY
BASINS IN THE STATES OF COLORADO
KANSAS AND NEBRASKA

Basin	Colorado Acreage Recommended	Estimated Annual Consumptive Use of Water in Acre-Feet
North Fork Republican	0	0
Arikaree River	4,000	6,000
South Fork Republican	1,500	2,250
Frenchman Creek	2,650	3,975
Beaver Creek	2,200	3,300
Total	10,350	15,525

Basins	Nebraska Acreage Recommended	Estimated Annual Consumptive Use of Water in Acre-Feet
South Fork Republican	600	900
Frenchman Creek	6,350	9,525
Beaver Creek	2,450	2,700
Sappa Creek	1,170	1,290
Prairie Dog Creek	300	330
Medicine & Deer Creeks	13,400	20,100
Main Republican River	71,000	95,340
Total	95,270	130,185

Basin	Kansas Acreage Recommended	Estimated Annual Consumptive Use of Water in Acre-Feet
Arikaree	400	600
South Fork Republican	2,480	3,720
Beaver Creek	7,550	9,860
Sappa Creek	4,060	5,510
Prairie Dog Creek	4,650	6,100