

MEETING OF THE

REPUBLICAN RIVER COMPACT COMMISSIONERS

Denver, Colorado

July 15, 1943

*The State Engineers of Colo. - Kans. & Neb.,
former*

The Republican River Compact Commissioners met with Mr. Glen L. Parker, Chief Engineer, U. S. Geological Survey, in the office of the State Engineer of Colorado on July 15, 1943, for the purpose of discussing locations of stream gaging stations needed for carrying out the provisions of the compact. The conference convened at 10:00 o'clock A.M. with the following persons present:

For Colorado:

M. C. Hinderlider, State Engineer
L. T. Burgess, Chief Hydrographer

For Kansas:

George S. Knapp, Chief Engineer, Water Resources Board

For Nebraska:

Wardner G. Scott, State Engineer
Dan S. Jones, Jr., Assistant Chief, Bureau of Irrigation

For U. S. Geological Survey:

Glen L. Parker, Chief Hydraulic Engineer
R. G. Kasel, Chief, Division of Surface Water

Following a general discussion of the subject matter, it was mutually agreed that, pending construction of reservoirs and other developments, gaging stations should be located in the basin in general as follows:

1. At the mouths of all of the tributary streams from which specific allocations of water were made in the compact.

SURFACE WATERS
OF
THE REPUBLICAN BASIN
(INCLUDING SMOKY HILL RIVERS)
COLORADO

From Excerpts of Ground Water Report, Eastern Colorado
by Glenn M. Schroeder of Colorado State Planning Commission

2. At state lines on streams from which allocations of water were made to more than one state.

Accordingly, the following "Compact Stations" were designated:

<u>Name of Stream</u>	<u>Location (at or near)</u>	
1. No. Fork Republican	Colorado-Nebraska State Line	*Old Station
2. So. Fork Republican	Colorado-Nebraska State Line	New Station
3. So. Fork Republican	Kansas-Nebraska State Line (Benkelman)	**Old Station
4. Republican	Nebraska-Kansas State Line (Hardy)	*Old Station
5. Arikaree	Mouth (Haigler)	*Old Station
6. Buffalo Creek	Mouth (Haigler)	*Old Station
7. Rock Creek	Mouth (Parks)	*Old Station
8. Frenchman Creek	Mouth (Culbertson)	**Old Station
9. Blackwood Creek	Mouth (Culbertson)	New Station
10. Driftwood Creek	Mouth (McCook)	New Station
11. Red Willow Creek	Mouth (Red Willow)	**Old Station
12. Medicine Creek	Mouth (Cambridge)	*Old Station
13. Beaver Creek	Kansas-Nebraska State Line (Cedar Bluffs)	New Station
14. Beaver Creek	Mouth (Stamford)	New Station
15. Sappa Creek	Mouth (Beaver City)	**Old Station
16. Sappa Creek	Kansas-Nebraska State Line	New Station
17. Prairie Dog Creek	Kansas-Nebraska State Line (Woodruff)	New Station

*Automatic Recorder
**Chain or Staff Gage only

No stations were planned for the Arikaree at the Colorado-Kansas or Kansas-Nebraska state lines because both of these points are within about five miles of present station at Haigler, near the mouth. A station at the mouth of Prairie Dog Creek was omitted because the high water line of the proposed Harlan County reservoir extends almost to the Kansas-Nebraska state line.

The matter of establishing stations on Beaver Creek at the Colorado-Kansas line and on Driftwood Creek at the Kansas-Nebraska line was discussed. It was decided, however, because both of the streams are composed of several tributaries at the state lines, which presents a difficult problem of obtaining satisfactory records, and because of the small discharge of the streams, that these stations would not be established at this time.

The ^{State Engineers} ~~Commissioners~~ were unanimously of the opinion that all of the stations should be of the Federal type with the Geological Survey responsible for the collection of discharge records. Mr. Parker expressed his willingness to comply with the desire of the Commissioners in this respect. He stated that his funds for the present fiscal year would not permit the taking on of the stations at this time but that he would include an item in the 1945 budget for this purpose.

It was the sense of the meeting that a resident office of the Geological Survey should be established at a central point in the Republican River basin, probably at McCook, Nebraska, to facilitate the stream gaging work. Mr. Knapp requested that if such resident office is set up, he would like to obtain discharge records for development purposes on some of the tributary streams in Kansas. Gaging stations for such purposes would be maintained and operated under a cooperative agreement between the State of Kansas and the Geological Survey. Likewise, present stations operated under current cooperative agreements between the states of Colorado and Nebraska and the Geological Survey and proposed new stations, other than those designated Compact Stations, would be operated as cooperative stations.

A list of the Development Stations, to which others may be added follows:

<u>Name of Stream</u>	<u>Location (at or near)</u>	
Republican	Culbertson, Nebraska	Old Station
Republican	Arapahoe or Oxford, Nebr.	New Station
Republican	Elmington, Nebraska	New Station
So. Fork, Republican	Hale, Colorado (U.S.R.S.)	Old Station
No. Fork, Republican	Wray, Colorado	Old Station
Frenchman Creek	Imperial, Nebraska	Old Station
Stinking Water Creek	Wauneta, Nebraska	Old Station
Rod Willow Creek	North of McCook, Nebraska	Old Station
Sappa Creek	Oberlin, Kansas	New Station
Beaver Creek	Ludell, Kansas	New Station
Prairie Dog Creek	Norton, Kansas	New Station

The matter of obtaining canal diversion records was discussed but no conclusions concerning it were reached.

A lengthy discussion was had concerning the necessity of securing ground water records along with those of surface water at the state line stations. All were agreed that such records would be of value and Mr. Parker was requested to establish observation wells at such stations on streams where proposed irrigation development might warrant it.

Mr. D. D. Lewis, Acting District Engineer, Lincoln District, U. S. Geological Survey, and Mr. Jones were requested to make a reconnaissance survey of the basin to select the Compact Station sites, to prepare estimates of station construction and maintenance costs and to report the same to Mr. Parker. Mr. Knapp requested that they also

select the sites for new Development Stations in Kansas on the
Prairie Dog, Sappa and Beaver Creeks at Norton, Oberlin and Ludell,
respectively.

The meeting was adjourned at 5:00 P.M.