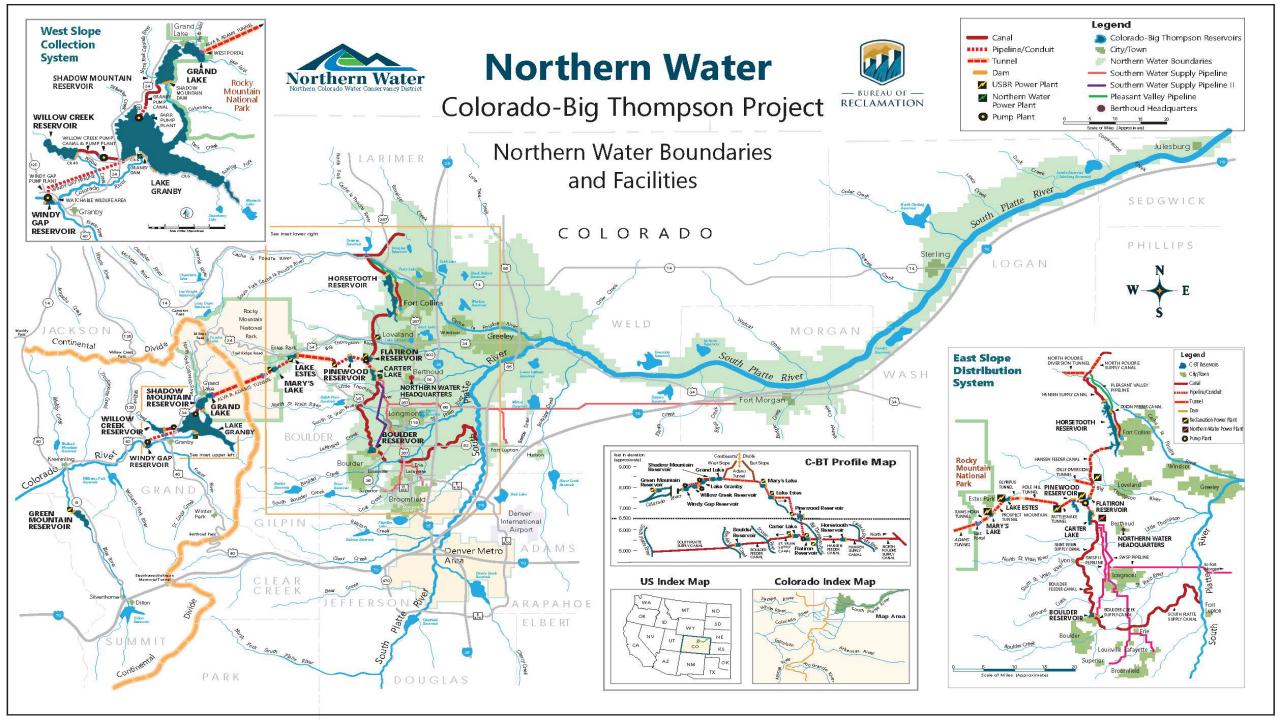
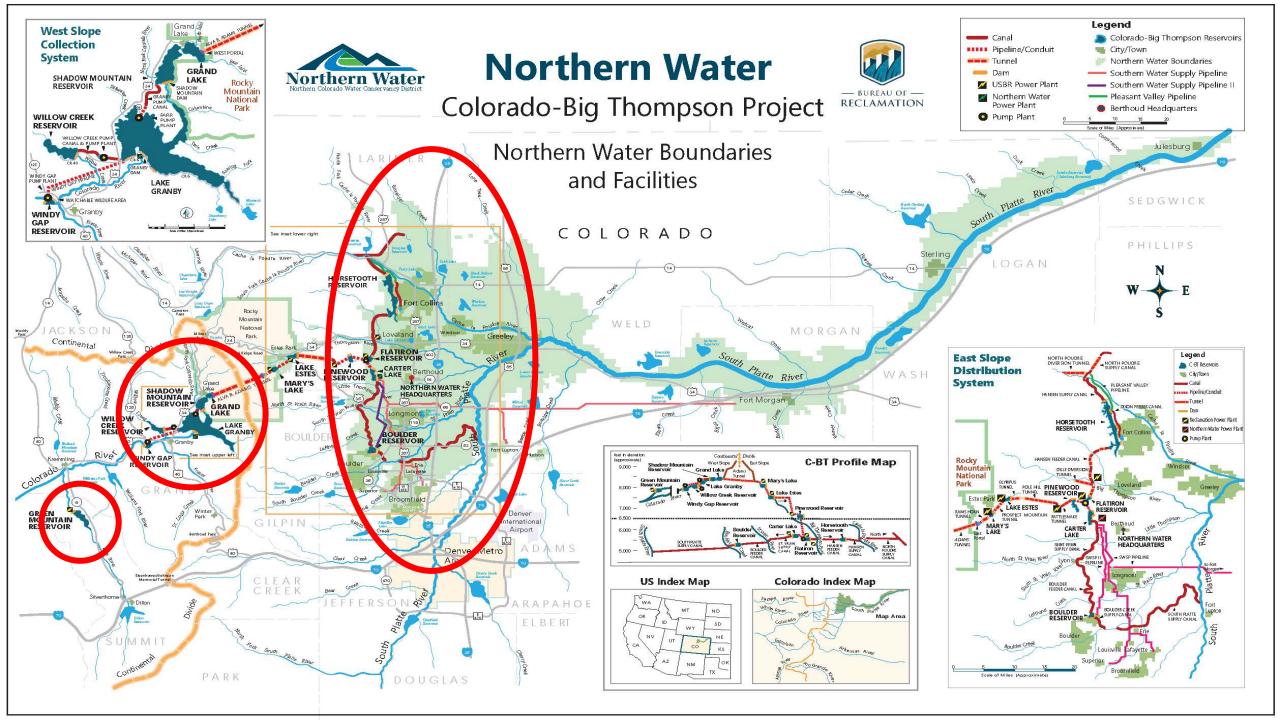
GRAD 592

The South Platte River & Northern Water

Bradley D. Wind, P. E. Northern Water, General Manager



Colorado-Big Thompson Project



C-BT Project

- Project created to provide a supplemental water supply
 - 1.6 million acres in 8 counties
 - 615,000 irrigated acres
 - 1.1 million residents
- Constructed 1938-1957
- Municipal, ag, industrial and domestic water users
- Average deliveries = 215,000 acre-feet/year





C-BT Project Makeup

- 12 reservoirs
- 35 miles of tunnels
- 95 miles of canals
- 7 hydroelectric plants
- 700 miles of transmission lines



SD-80 – Introduction:

The Colorado-Big Thompson project in Colorado contemplates the diversion of surplus waters from the headwaters of the Colorado River on the Pacific or western slope to lands in northeastern Colorado on the Atlantic or eastern slope greatly in need of supplemental irrigation water.

(1) Storage on the Blue River in what is called Green Hountain Reservoir located about 16 miles southeast of Kremmling, Colo., where the Blue enters the Colorado River. This reservoir is to be used to replace water diverted to the eastern slope that would be required by prior rights along the Colorado River.



SD-80 – History & Project Need:

The difficulties experienced by these colonists in distributing the water between them led to the creation of Colorado's irrigation laws which have been copied by most of the irrigation States of the West.

Under such conditions only the older water rights have any assurance of an adequate water supply, and in the dryer years the owners of junior rights are forced to confine their farming to crops that can be matured by the early flood flow or that require a minimum amount of water. In years when the supply is not correctly estimated considerable loss results. Ordinarily the crops raised in this and other irrigated areas do not compete with those grown under rainfall conditions, but a shortage of water always leads to the raising of more of the competing crops. Such crops also cut the income of the irrigation farmer below what he can earn with the higher type, noncompetitive crops.

stream flow. It must be emphasized that the additional water supply here contemplated is to be used for a supplemental supply and not to create a large new additional irrigated acreage.



SD-80 – History & Project Need:

Water district no,	Area irrigated	1926 diversion, acre-feet		Difference, 1926, 11-year average required supple- mentary water in acre-feet	plemental supply Colorado-Moffat Present To Big and seepage su Thompson Jones return me project Pass aore- su water tunnel feet ac water f			Total supple-
(1)	(2)	(3)	(7)	(15)	(16)	return (17)	(18)	(19)
3 4 5 1 2 64	213,640 68,408 81,806 92,394 37,899 121,289	530,000 235,000 113,000 663,000 170,000 513,000	163,000 94,000	132,000 72,000 19,000 206,000 16,000 130,000	104,000 44,100 38,800 81,400 5,000 36,700	11,000 4,500 14,500	21,000 18,500 83,000	57,300 175,400 14,600
Total	615,436	2,224,000	1,649,000	575,000	310,000	30,000	214,500	554,50



Repayment Contract [1938]:

There is also claimed and reserved by the United States for the use

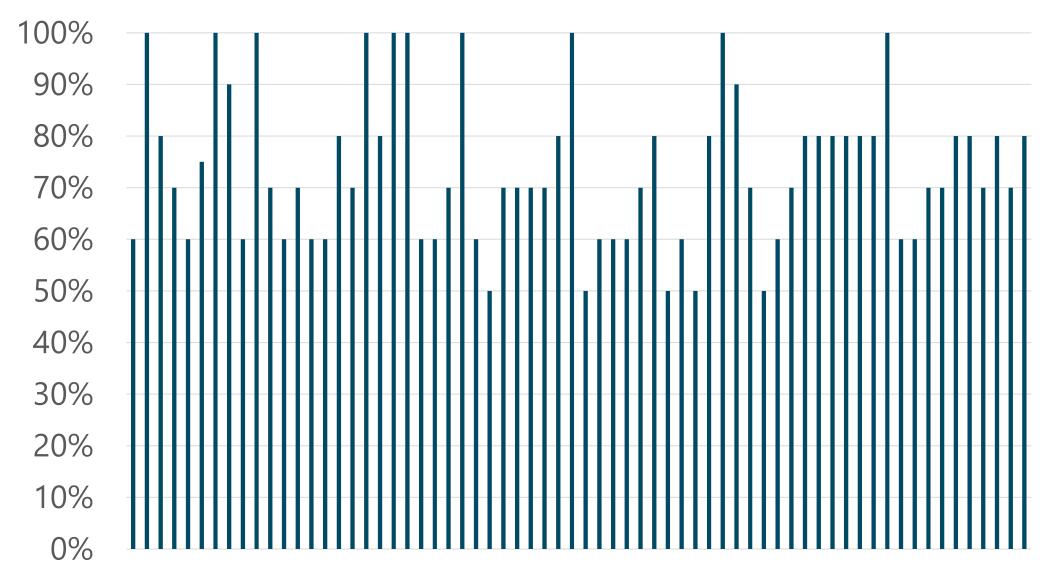
of the District for domestic, irrigation and industrial uses, all of the increment,

seepage and return flow water which may result from the construction of the

project and the importation thereby, from an extraneous source, to-wit, from the

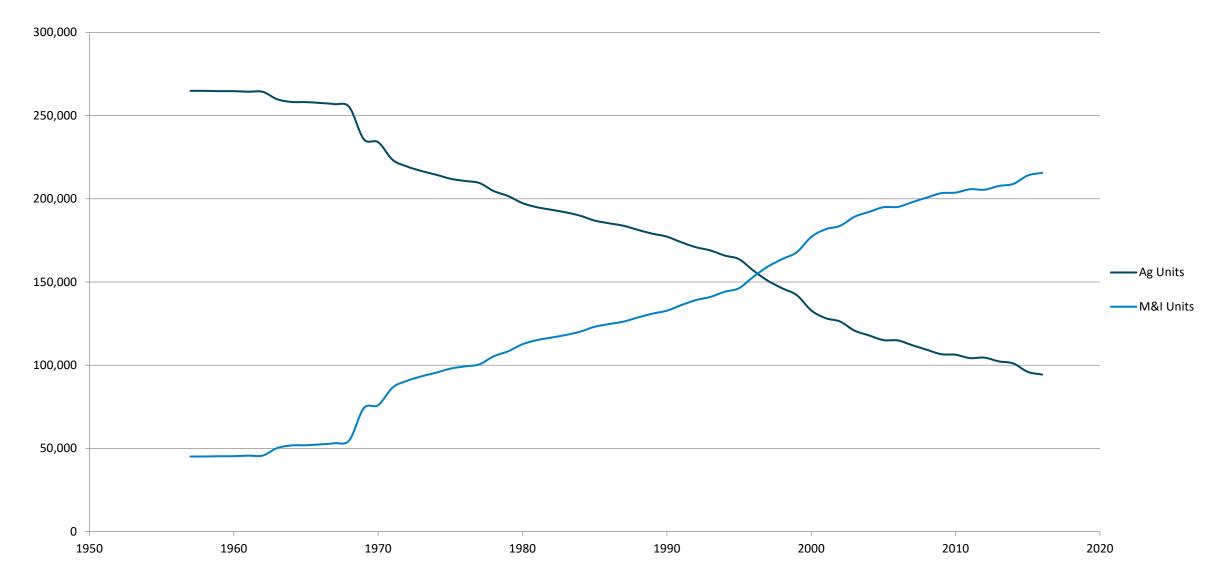


CBT Quota





C-BT Ownership Trends



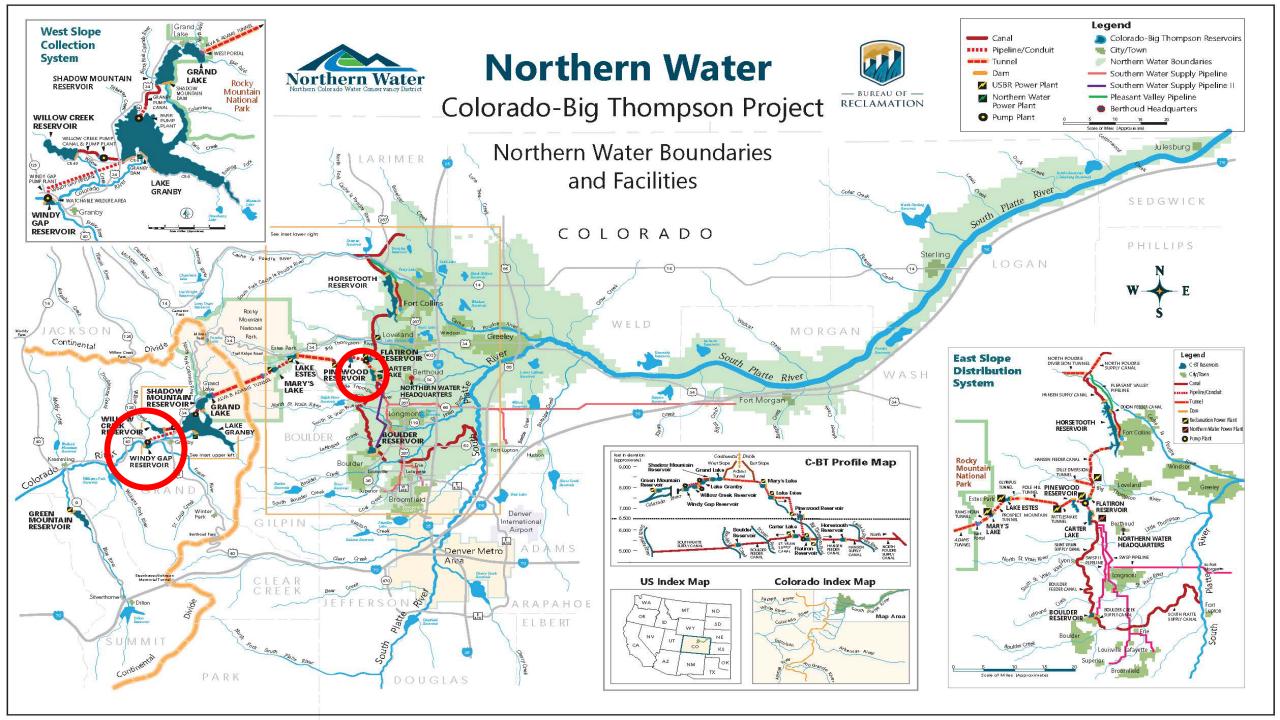


Historical Value Trends of a C-BT Unit

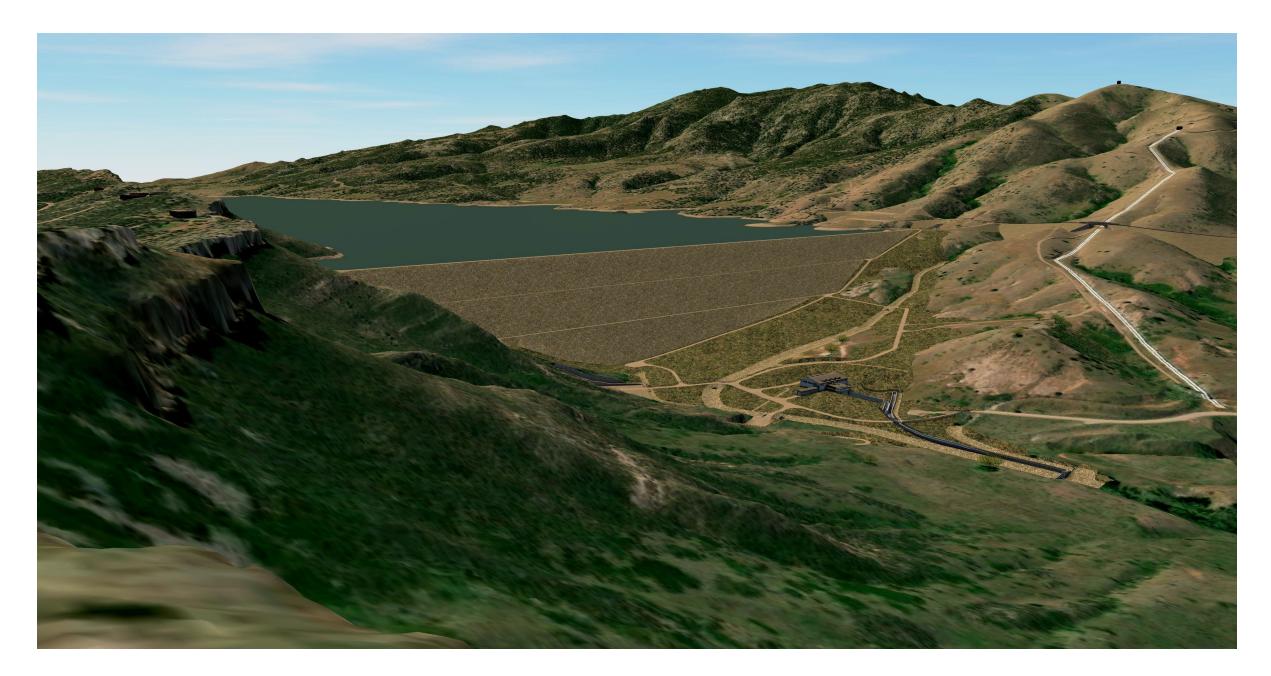
\$0 1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020
\$2,500												
\$5,000												
\$7,500												
\$10,000												
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\$17,500												
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Windy Gap Project







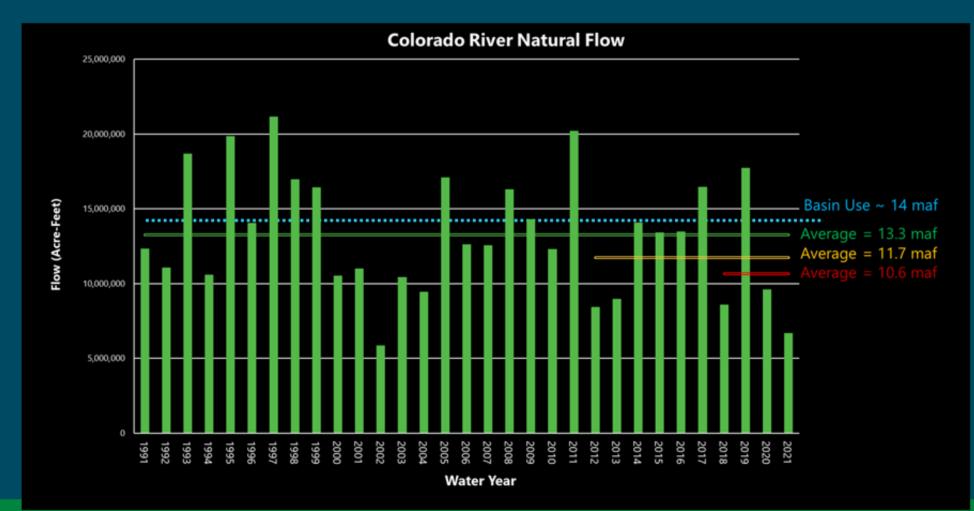


COLORADO RIVER CONNECTIVITY CHANNEL





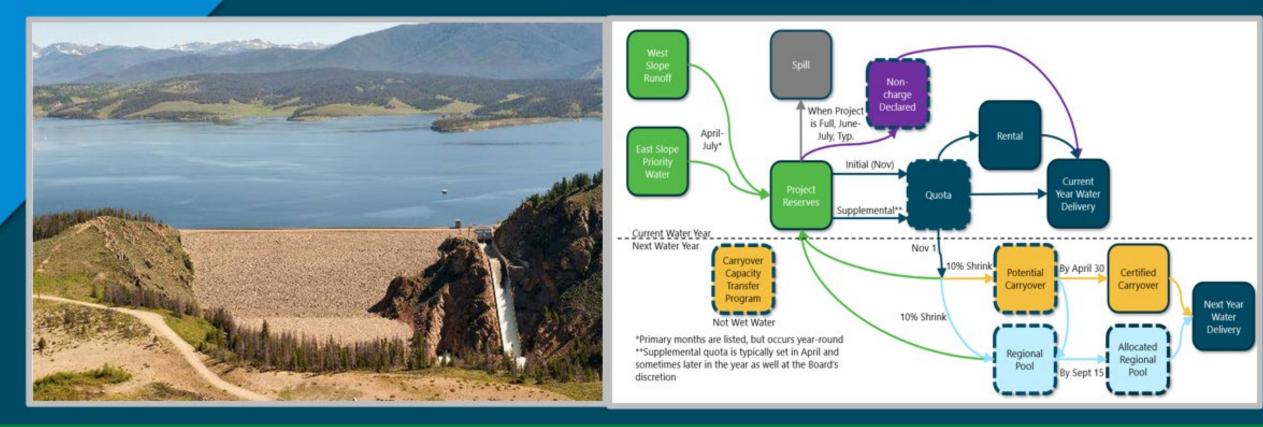
Where from Here?



Where from Here? Engage, Support & Guide



Where from Here? Increase Resiliency



Where from Here? Increase Resiliency



Where from Here? Protect Native Supplies



Where from Here? Improve Watershed Health



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