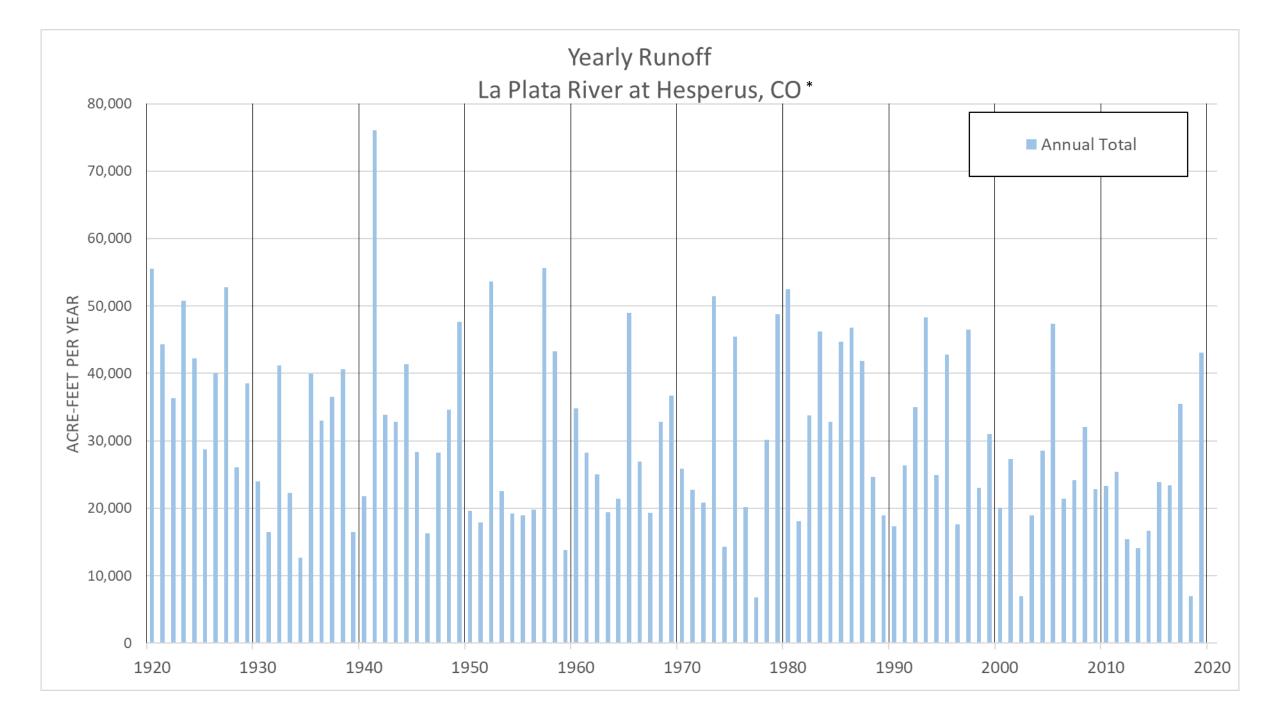
Trends in Runoff and Effects on Water Administration

"Case Study Using La Plata River"

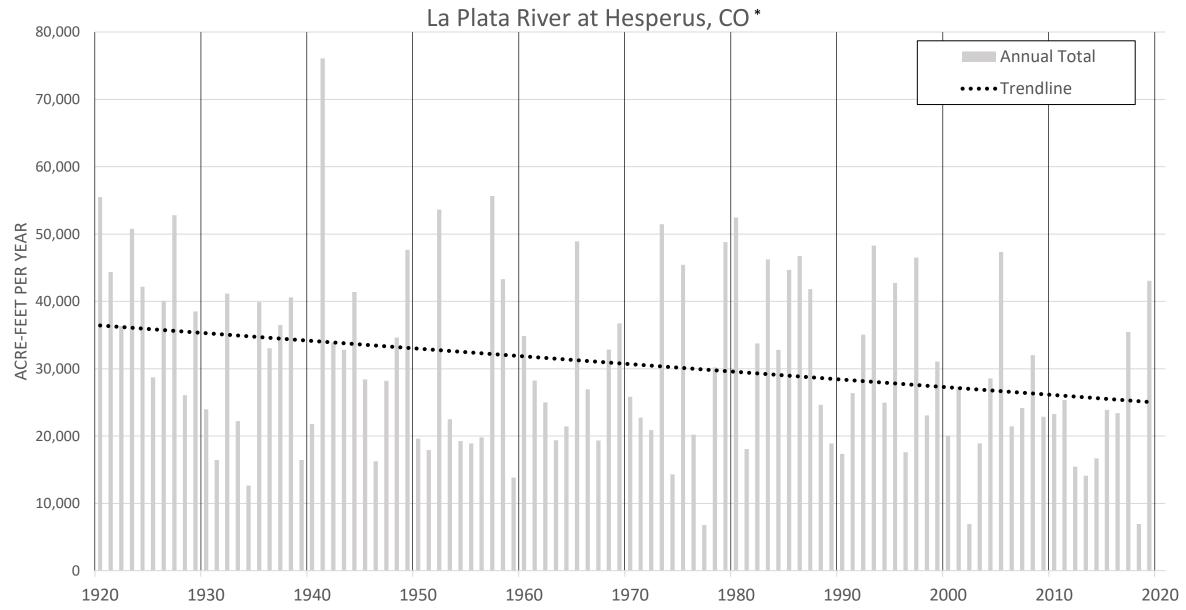
Southwestern Water Conservation District April 1, 2022

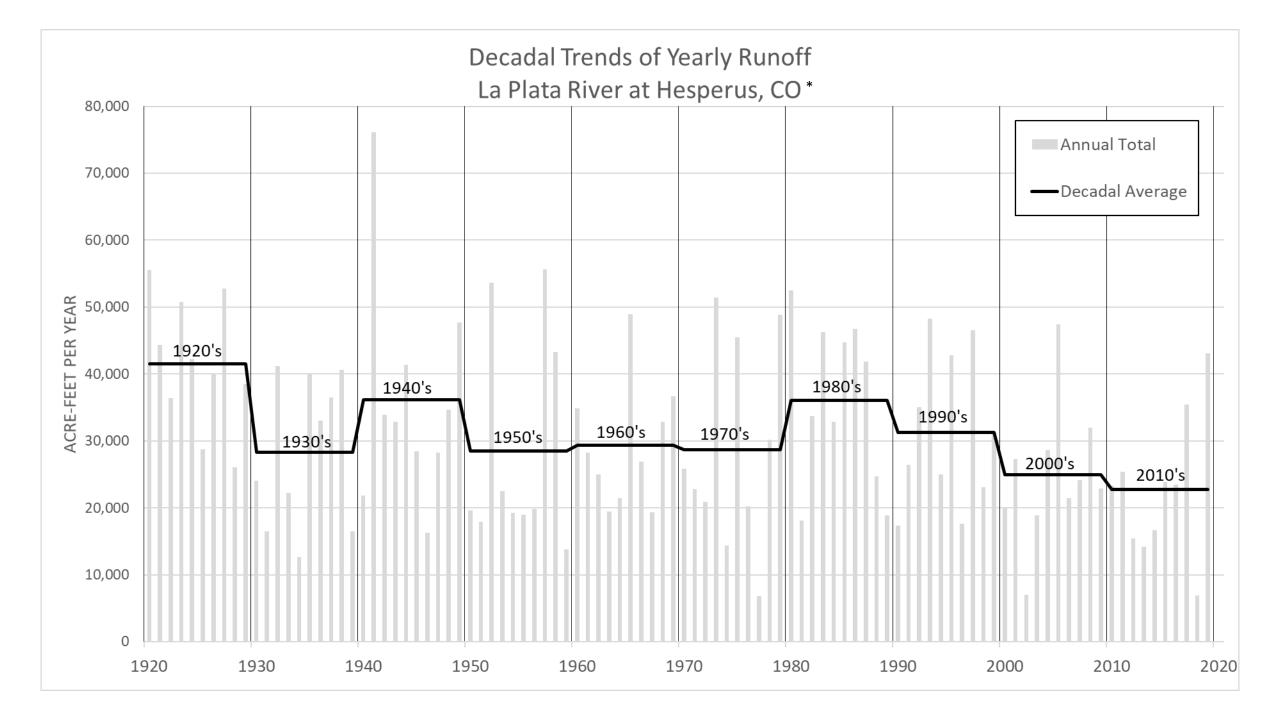
Robert B. Genualdi, P.E., Division Engineer
Durango, CO
Colorado Division of Water Resources

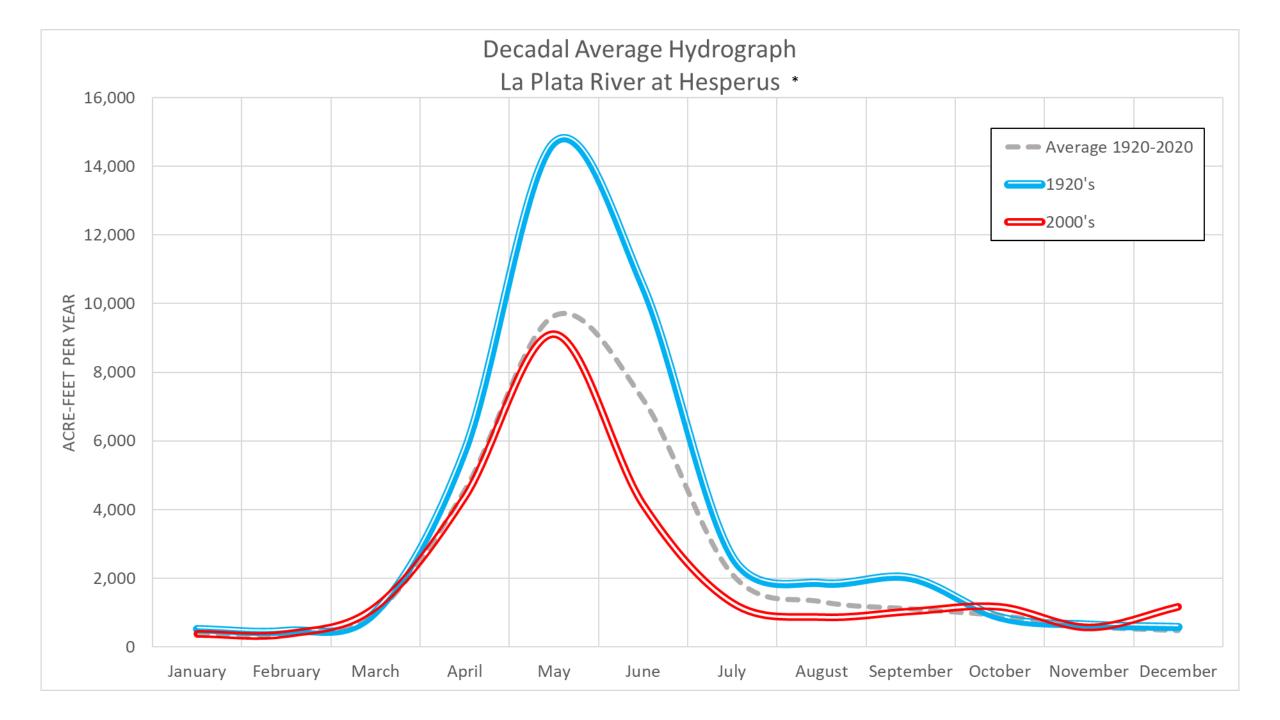




Yearly Runoff







Water Administration

The Priority System accounts for variability in supply and demand

"First in time, first in right"

A Water Right gets you a spot in the priority system.

It establishes your priority (your place in line) when there is a shortage of water.





Pre-1870's
Pre-Statehood
No Water
Rights system
in place



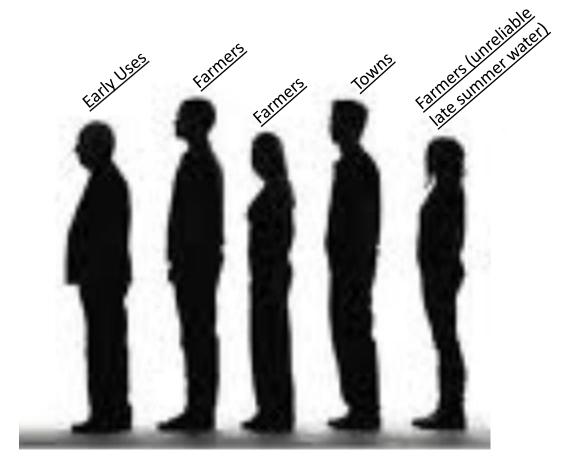


1870's-Early 1900's

Pre-Statehood

Early agriculture and domestic uses.

Need for water administration-"Priority System"



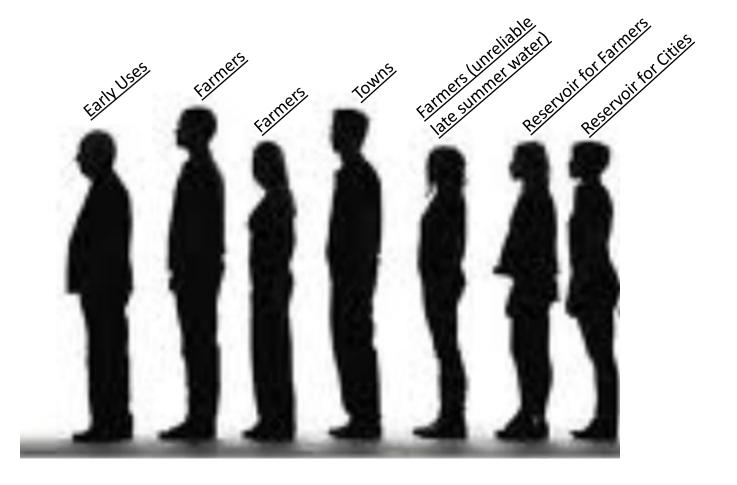
1870's-Early 1900's

Early 1900's-1950's

Pre-Statehood

Early agriculture and domestic uses

Agricultural & population expansion. Reservoir building



1870's-Early 1900's

Early 1900's-1950's

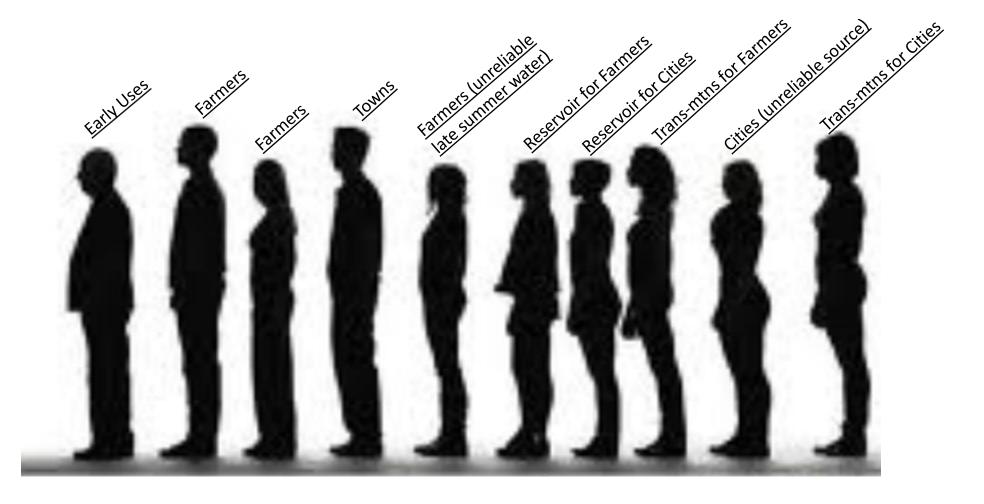
1950's-1970's

Pre-Statehood

Early agriculture and domestic uses

Agricultural & population expansion. Reservoir building

Growing cities. Transmountains and reservoir building



1870's-Early 1900's

Early 1900's-1950's

1950's-1970's

1970's-present

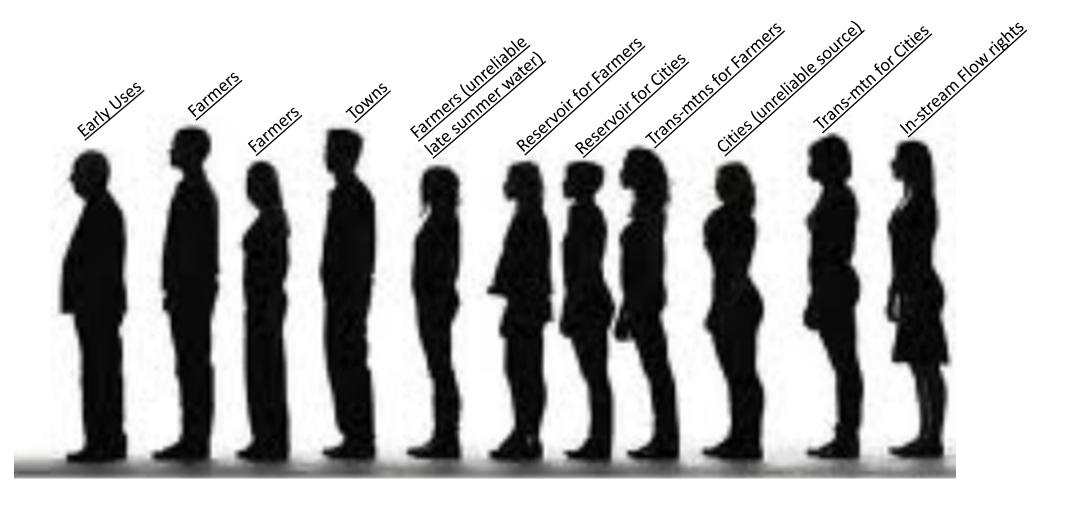
Pre-Statehood

Early agriculture and domestic uses

Agricultural & population expansion. Reservoir building

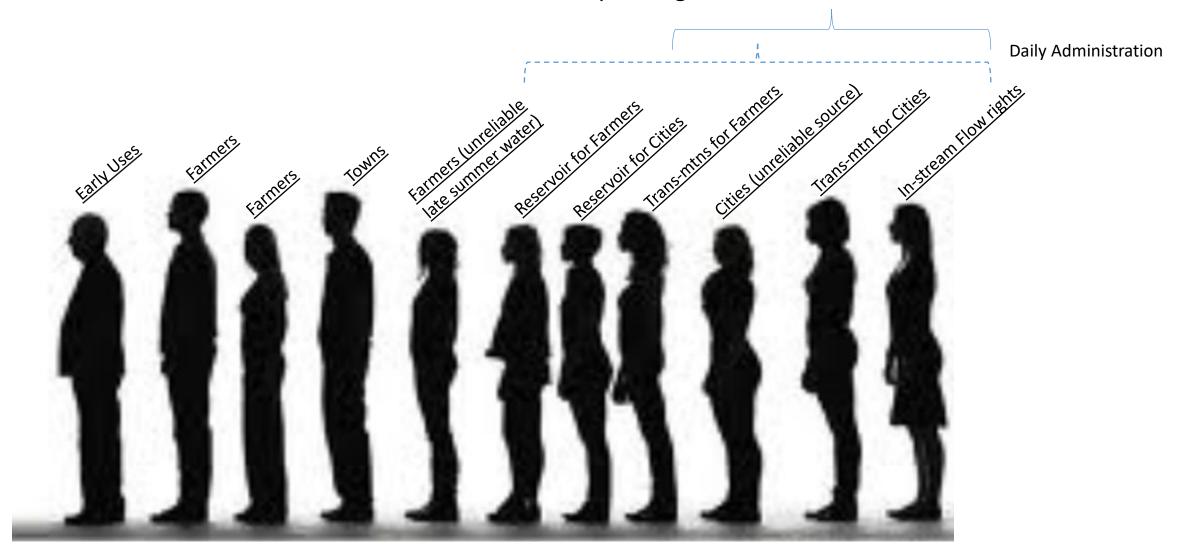
Growing cities. Transmountains and reservoir building

Environmental considerations and growing cities

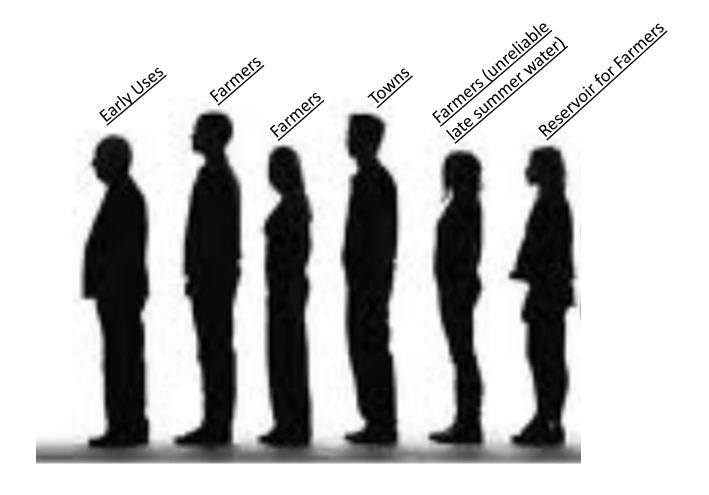




Junior water rights go "out-of-priority" depending on how much water is in the river...



...resulting in "Priority Administration", juniors are turned off



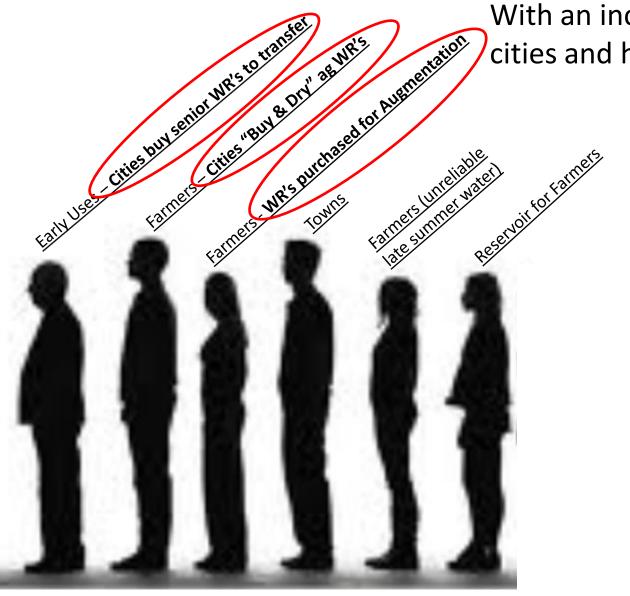


What is Priority Administration?



Water Commissioner adjusting a headgate on the river.

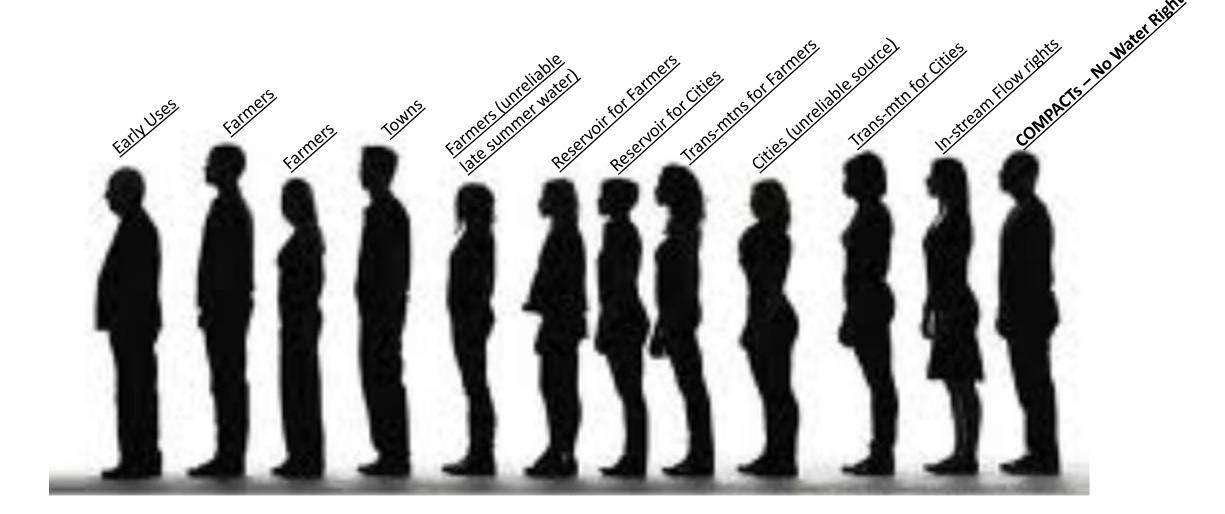




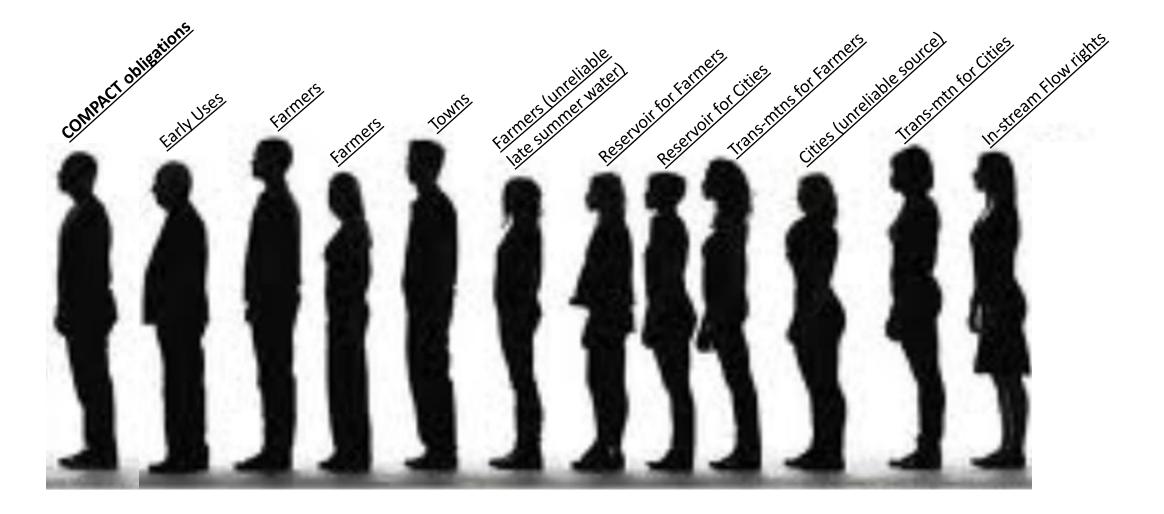


With an increased demand, or decrease in supply, cities and high value uses buy senior rights.

What happens when you introduce a "Compact Call"?



On the La Plata River, the Compact is treated as the top priority...



...and junior water rights may become less reliable.

