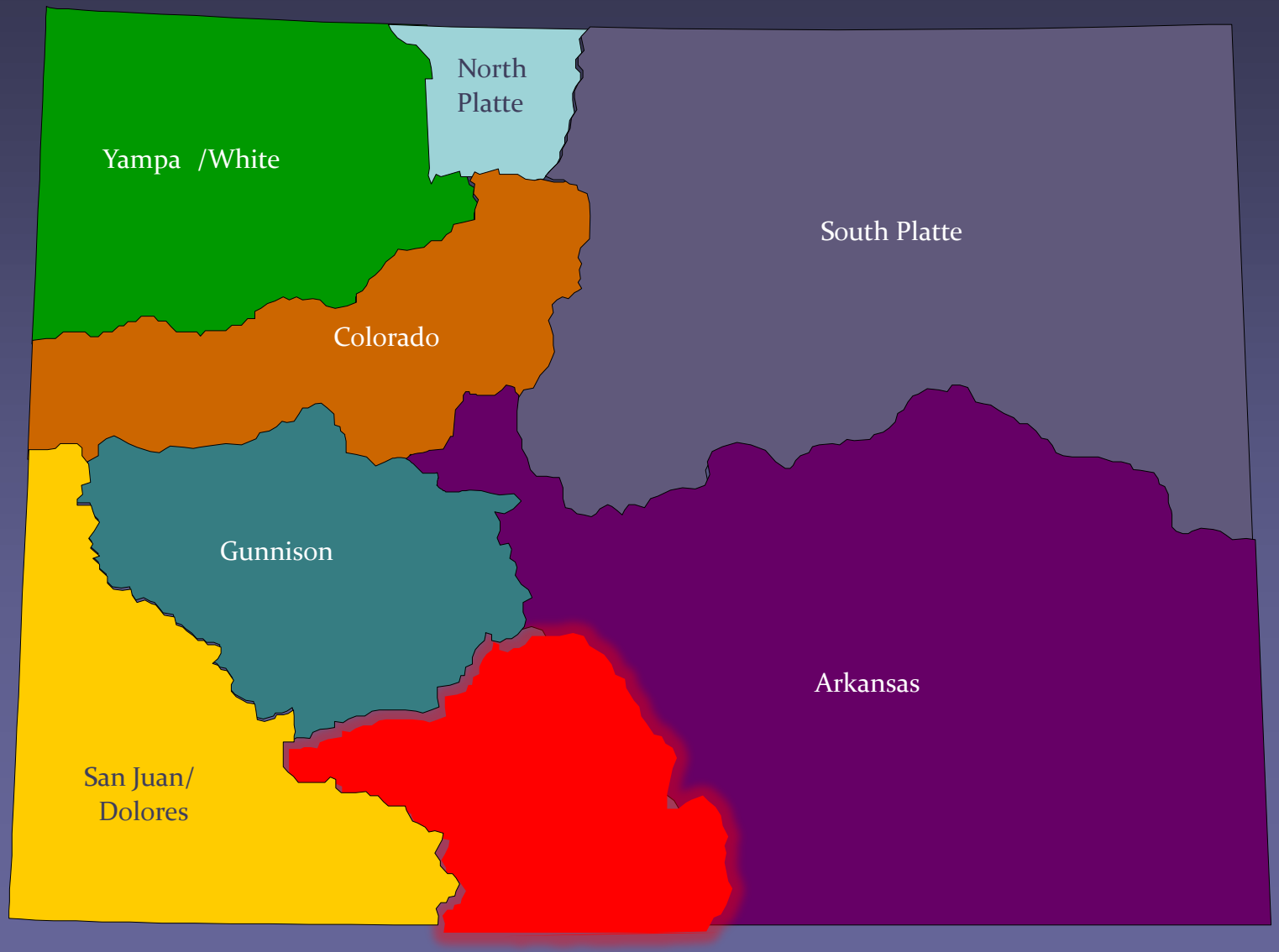
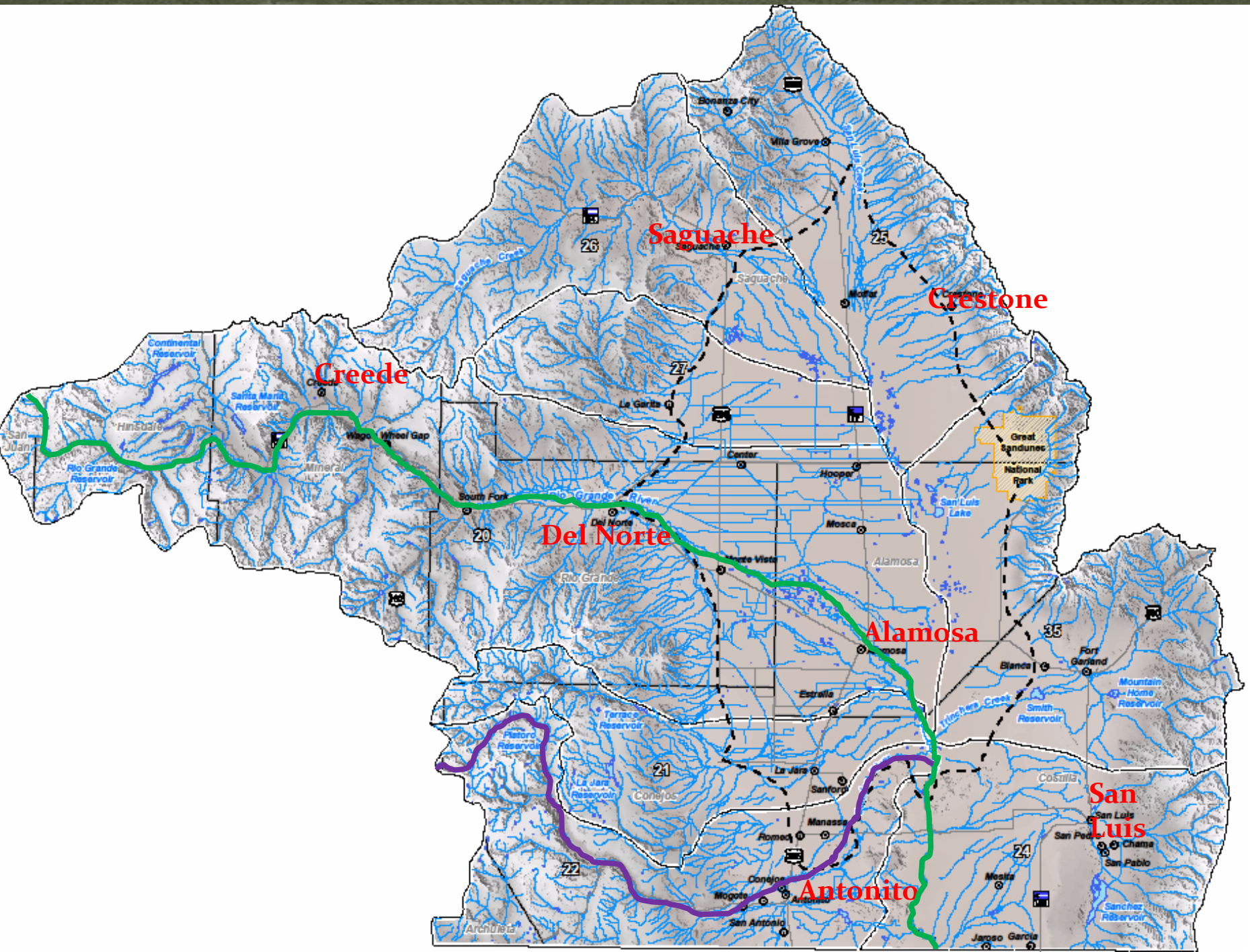
Rio Grande Basin

Craig Cotten
Division Engineer

Rio Grande Basin




Saguache
Crestone
Creede
Del Norte
Alamosa
San Luis
Antonito

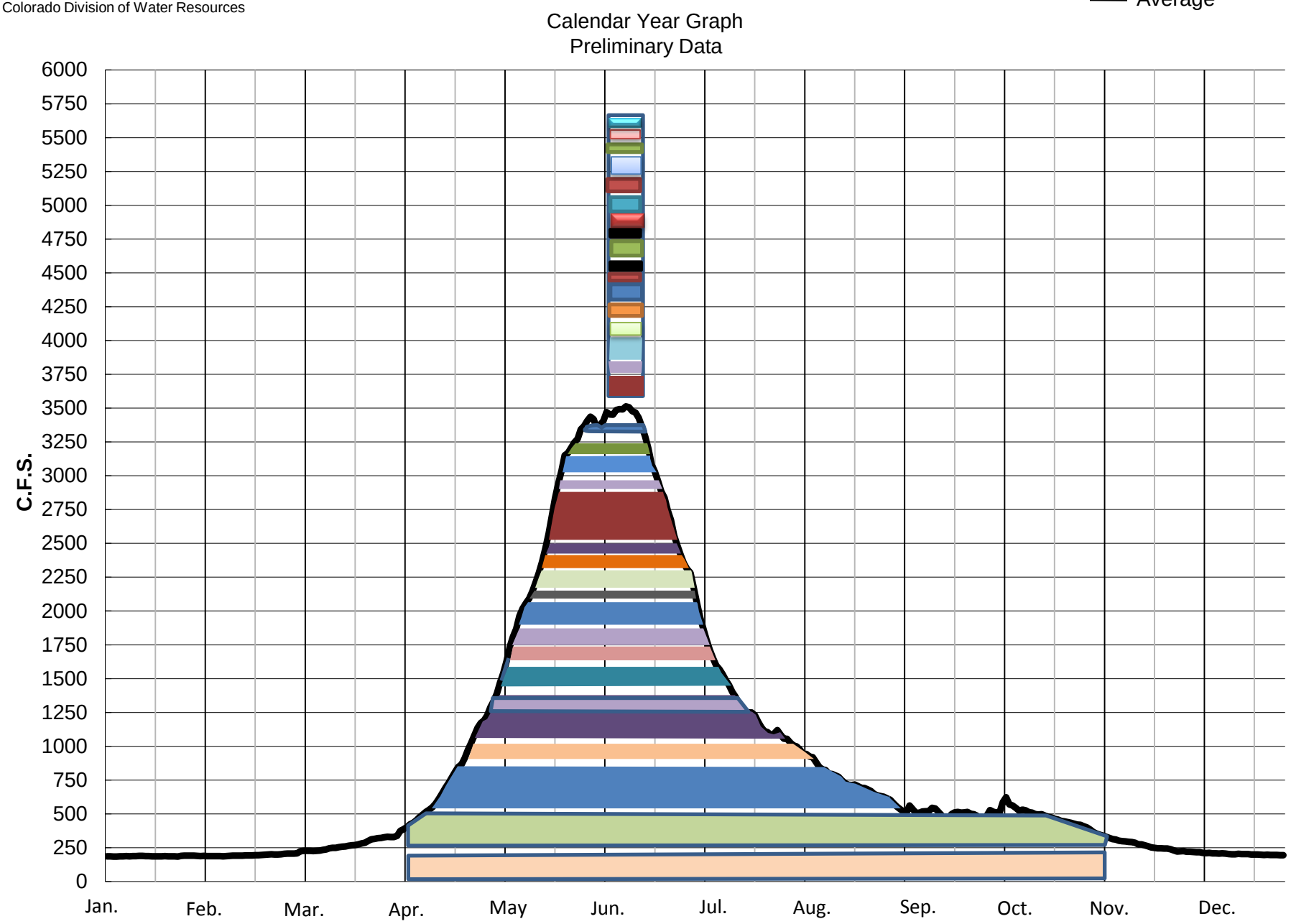
Division 3 Water Rights System

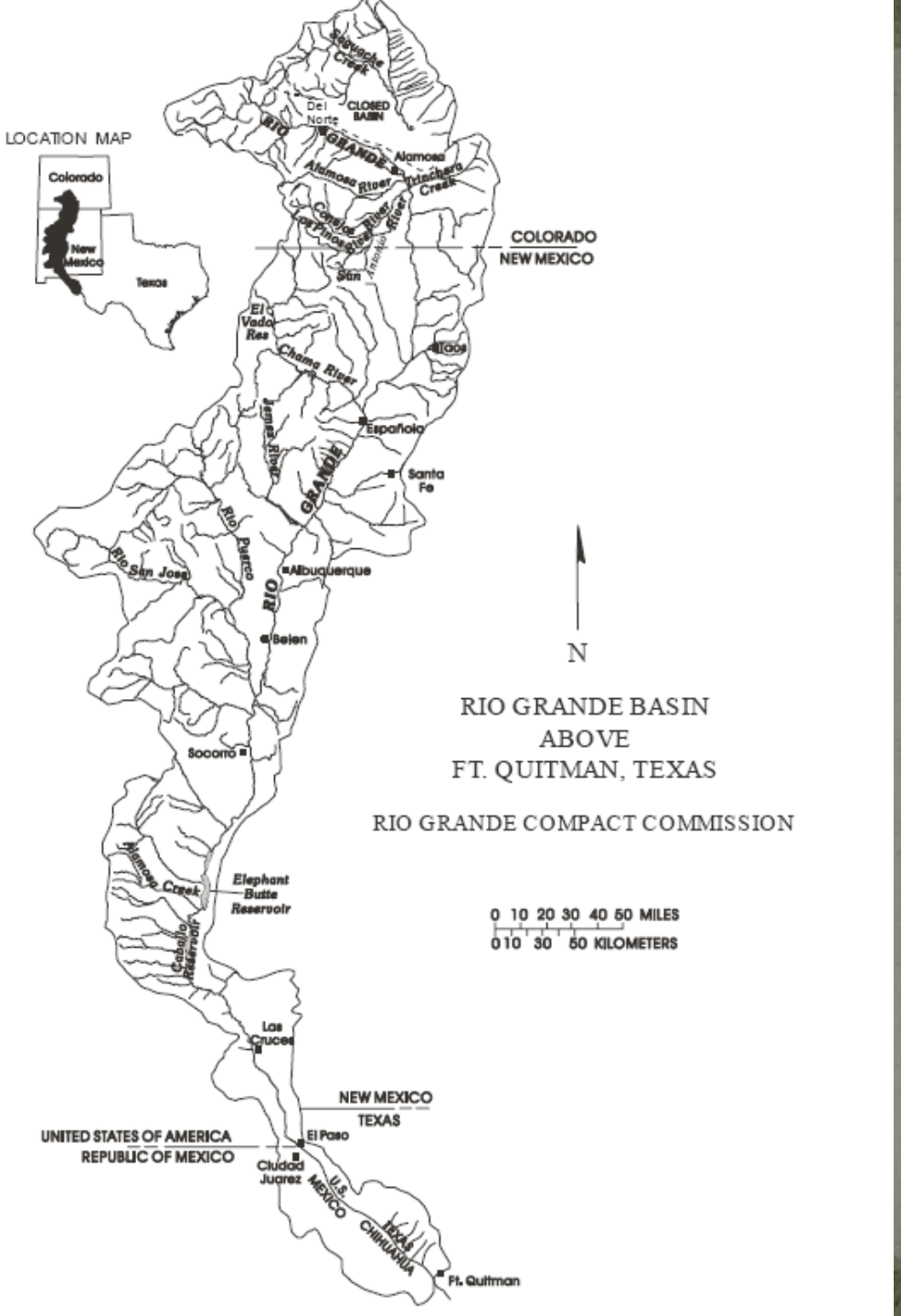
- ***All Division 3 streams are over-appropriated***, which means more water is claimed or desired by water users than is available.
- ***All Division 3 aquifers are over-appropriated,*** and have been considered to be over appropriated since 1982. (see Case No. 04CW24)
- ***Interstate Compact administration*** influences the water availability from the Rio Grande, the Conejos, the Costilla and their tributaries .

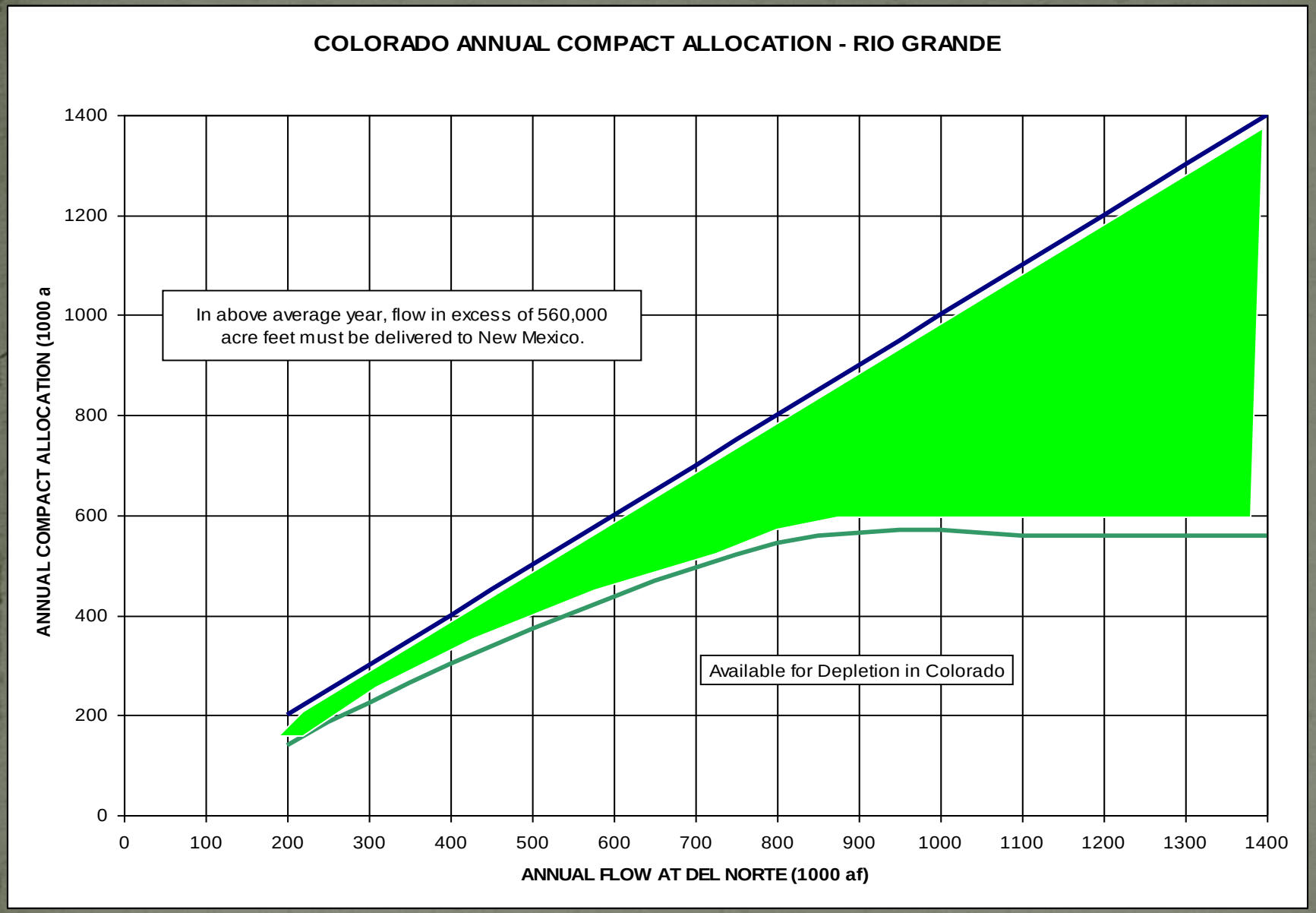
Prepared by:
Colorado Division of Water Resources

STATION NAME: Rio Grande Near Del Norte (RIODELCO)

Calendar Year Graph
Preliminary Data



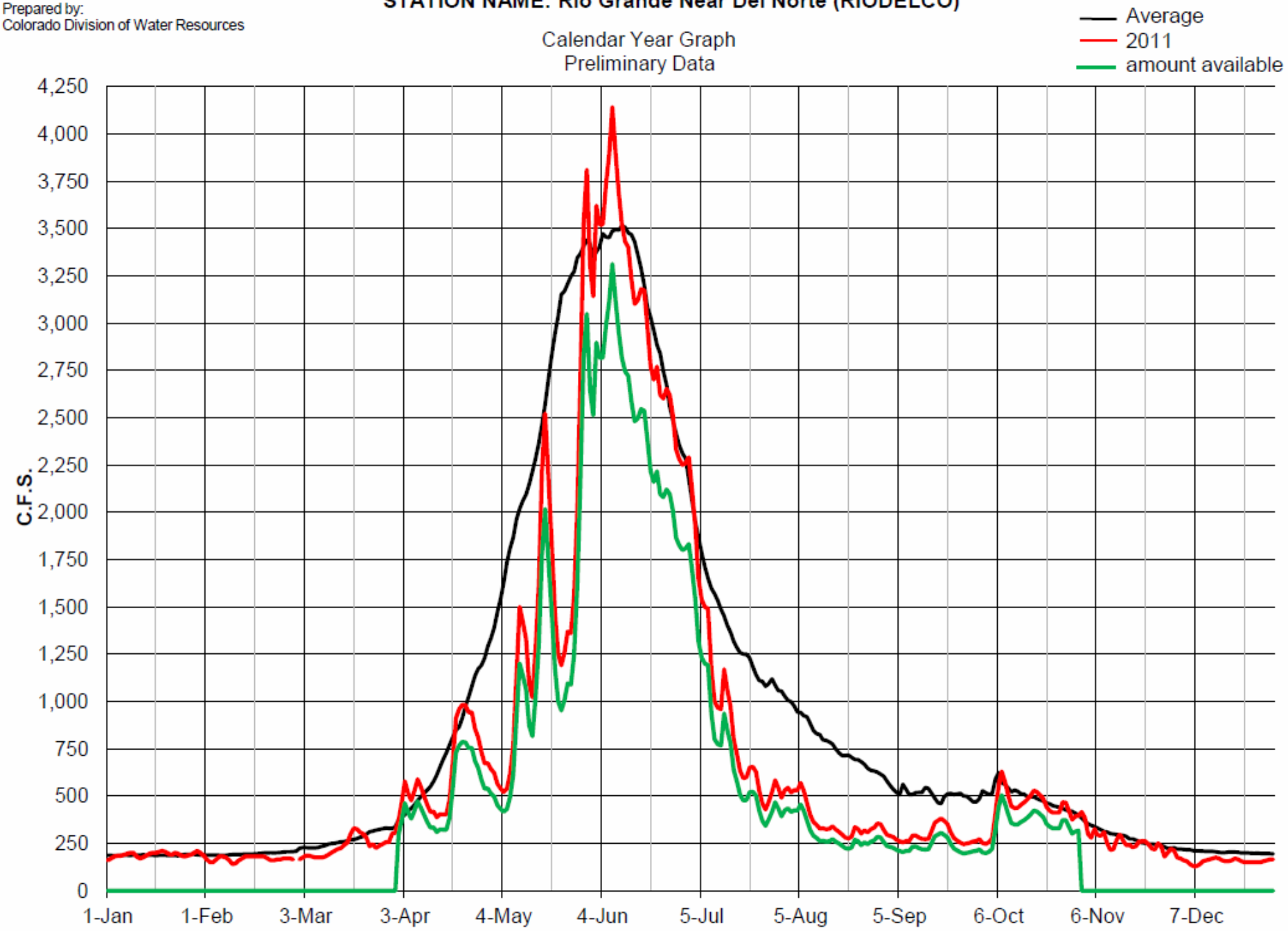

LOCATION MAP
Colorado
New Mexico
Texas
Del Norte
CLOSED BASIN
RIO GRANDE
Alamosa
Alamosa River
Trinchera Creek
Conejos River
Los Pinos River
COLORADO
NEW MEXICO
El Vado Res
Chama River
Taos
Española
Jemez River
Santa Fe
RIO GRANDE
Rio San Jose
RIO Puerco
Albuquerque
RIO
Belen
Socorro
Elephant Butte Reservoir
Caballo Reservoir
Las Cruces
NEW MEXICO
TEXAS
UNITED STATES OF AMERICA
REPUBLIC OF MEXICO
El Paso
Ciudad Juarez
U.S.
MEXICO
TEXAS
CHIHUAHUA
Ft. Quitman
N
RIO GRANDE BASIN
ABOVE
FT. QUITMAN, TEXAS
RIO GRANDE COMPACT COMMISSION
0 10 20 30 40 50 MILES
0 10 30 50 KILOMETERS

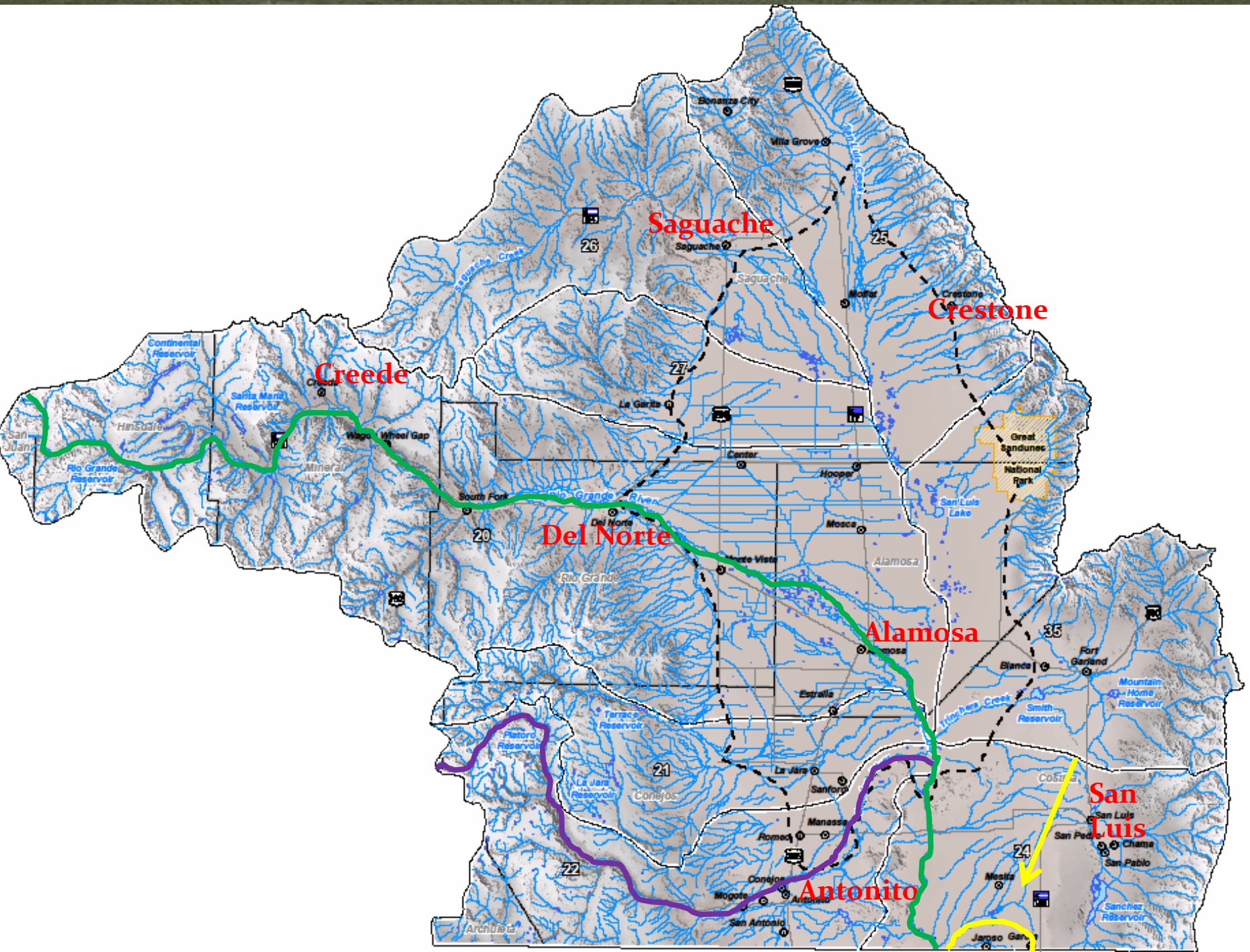

COLORADO ANNUAL COMPACT ALLOCATION - RIO GRANDE
ANNUAL COMPACT ALLOCATION (1000 a
1400
1200
1000
800
600
400
200
0
In above average year, flow in excess of 560,000 acre feet must be delivered to New Mexico.
Available for Depletion in Colorado
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
ANNUAL FLOW AT DEL NORTE (1000 af)

Prepared by:
Colorado Division of Water Resources

STATION NAME: Rio Grande Near Del Norte (RIODELCO)

Calendar Year Graph
Preliminary Data




Saguache
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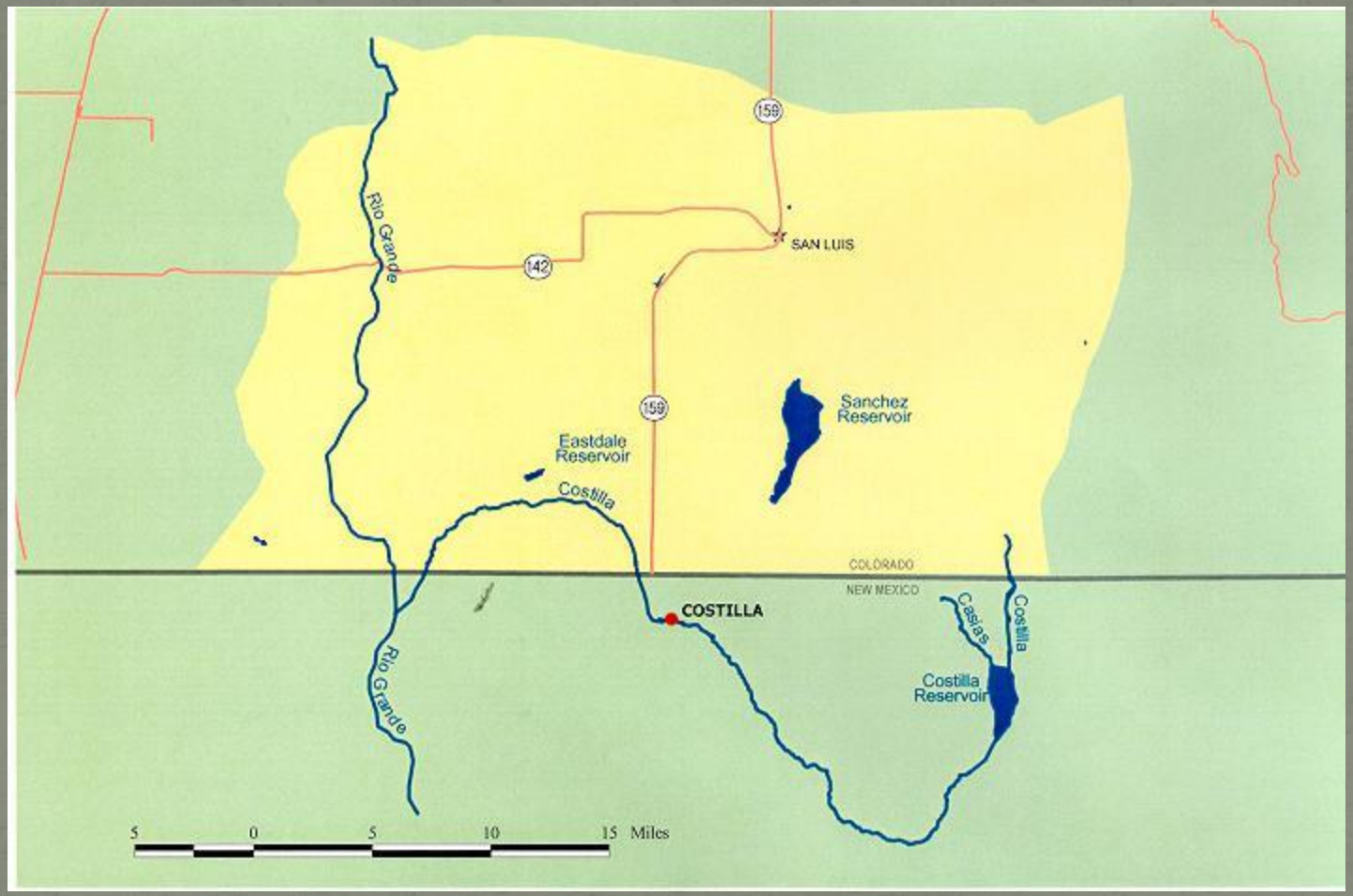
COSTILLA CREEK COMPACT – 1944 (1963)



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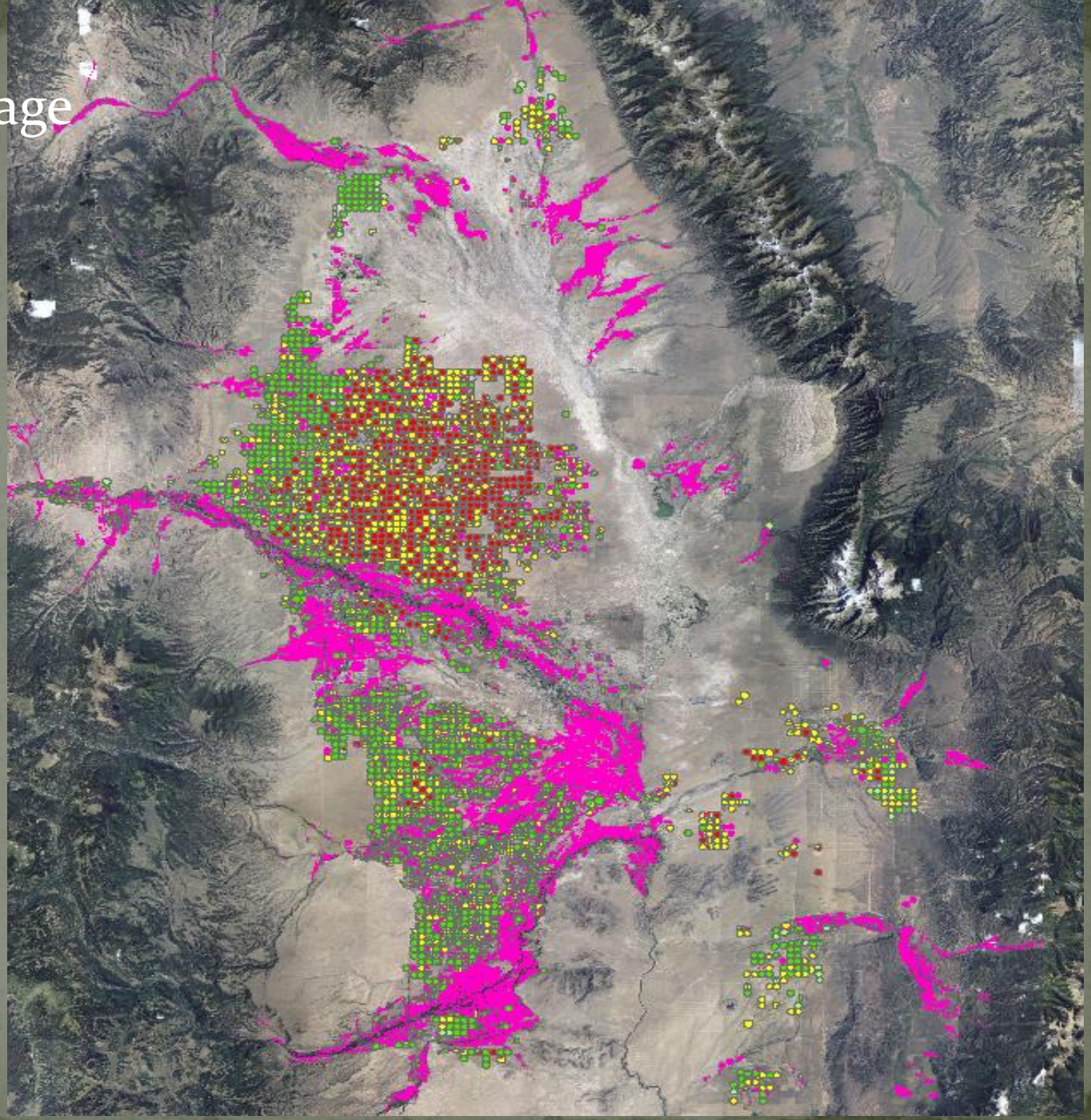
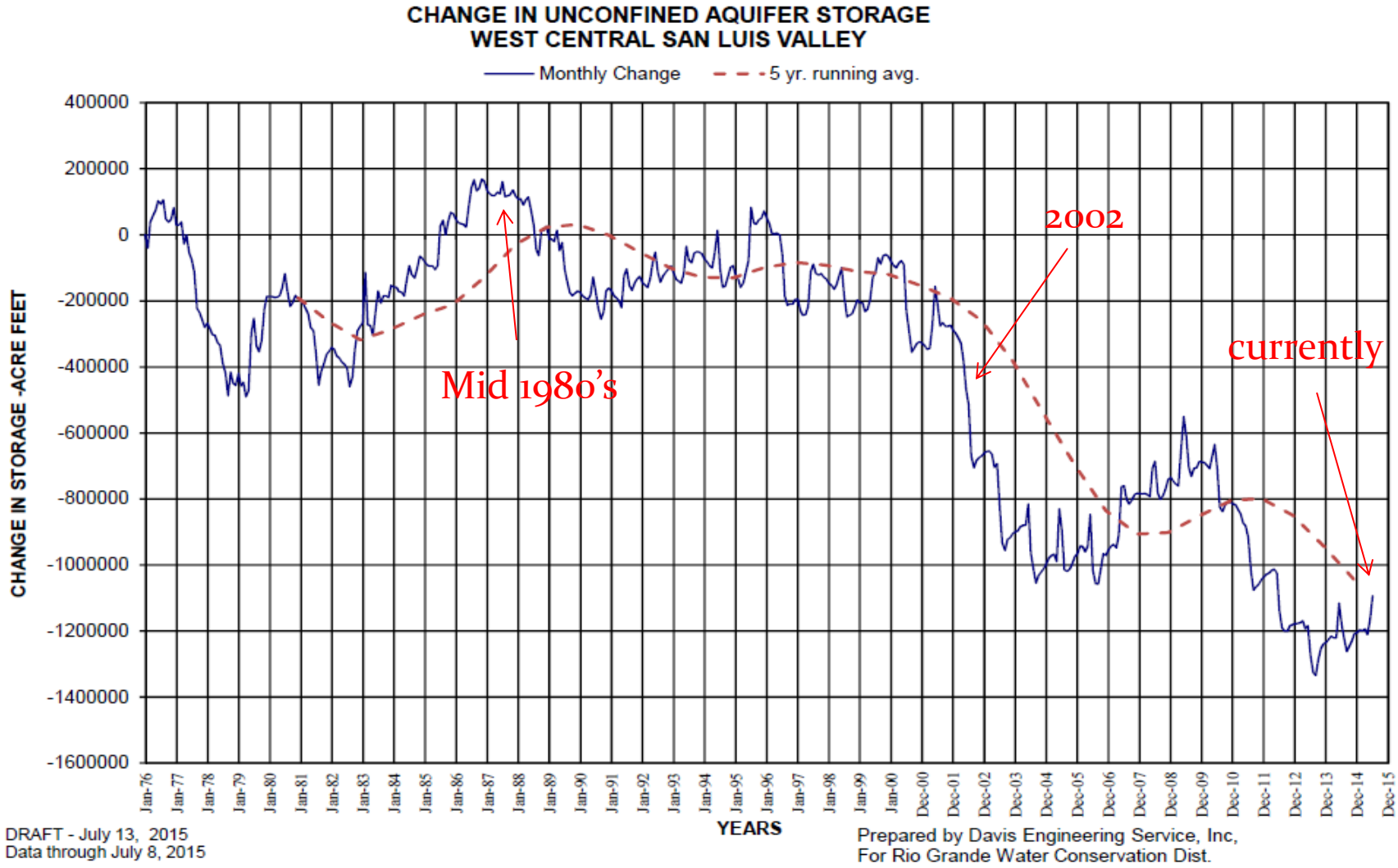
- Irrigated acreage




CHANGE IN UNCONFINED AQUIFER STORAGE
WEST CENTRAL SAN LUIS VALLEY
Monthly Change
5 yr. running avg.
CHANGE IN STORAGE -ACRE FEET
400000
200000
0
-200000
-400000
-600000
-800000
-1000000
-1200000
-1400000
-1600000
Jan-76
Jan-77
Jan-78
Jan-79
Jan-80
Jan-81
Jan-82
Jan-83
Jan-84
Jan-85
Jan-86
Jan-87
Jan-88
Jan-89
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Dec-00
Dec-01
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
YEARS
2002
Mid 1980's
currently
DRAFT - July 13, 2015
Data through July 8, 2015
Prepared by Davis Engineering Service, Inc,
For Rio Grande Water Conservation Dist.

Streamflow Forecasting

Litigation

- 2012: Texas sued New Mexico and Colorado over depletions below Elephant Butte.
- 2013: Federal Government intervened on side of Texas.
- 2014: Supreme Court assigned a Special Master.
- Next week: Hearings on NM Motion to Dismiss and for others to join case.

Endangered Species Issues

Southwestern Willow Flycatcher

Silvery Minnow

Other Species of Concern

- Yellow Billed Cuckoo
- Rio Grande Cutthroat Trout

Questions?