

Surface Water Storage and Potential Projects

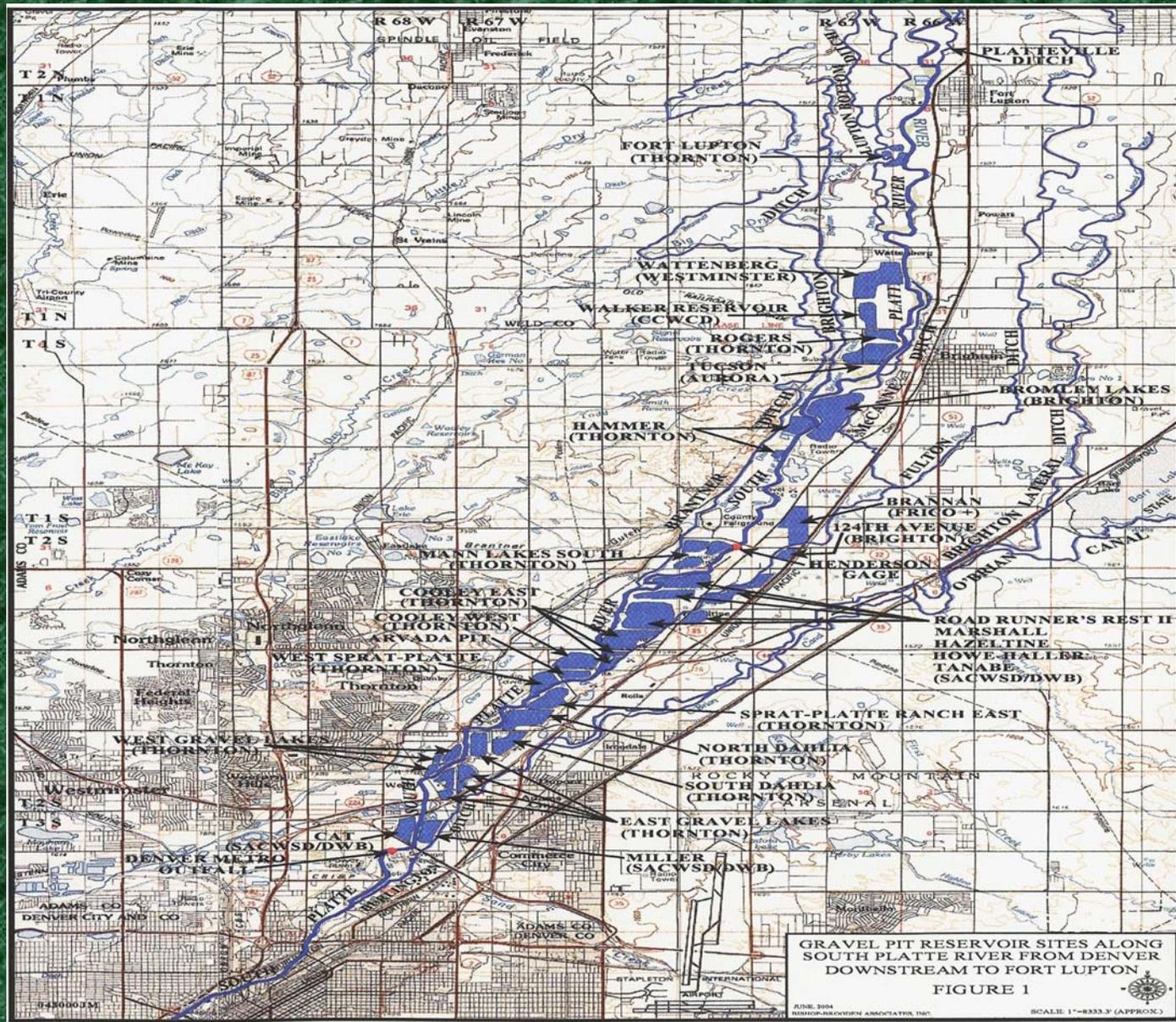
Hal D. Simpson
State Engineer

AWRA
Annual Symposium

Water Storage Volumes Acre-Feet

Water Division	Active Storage	Conditional Storage	Restricted Storage
1	1,770,000	3,460,000	28,488
2	1,450,000	890,000	71,309
3	370,000	140,000	10,739
4	1,450,000	2,210,000	4,016
5	1,420,000	2,860,000	1,860
6	180,000	4,870,000	667
7	670,000	1,540,000	937
Total	7,310,000	15,970,000	118,016

Gravel Pit Reservoir Sites Along South Platte River



Proposed Revisions to the Rules and Regulations for Dam Safety and Dam Construction

Key Changes

- Hazard Classification Terminology**
- Elimination of Intermediate Dam Size**
- Inflow Design Flood**
- IDF Reduction for Elevation**
- General update and clean-up**

INFLOW DESIGN FLOOD REQUIREMENTS

<u>Hazard Classification</u>	<u>High</u>	<u>Significant</u>	<u>Low</u>	<u>NPH</u>
Dam Size				
Large	.9 PMP	.75 (.9 PMP)	100 YR	50 YR
Small	.9 PMP	.50 (.9 PMP)	100 YR	25 YR
Minor	.50 (.9 PMP)	100 YR	50 YR	25 YR

General Storm

East of the Continental Divide - Elevation (ft.)	% Reduction
6,000 to 12,000	20
Above 12,000	30
West of the Continental Divide - Elevation (ft.)	
5,000 to 8,000	20
Above 8,000	30

Local Storm

Statewide - Elevation (ft.)	% Reduction
10,000 to 11,500	20
11,501 to 13,000	30
Above 13,000	40

Proposed Reduction for Elevation

General Storm

East of the Continental Divide

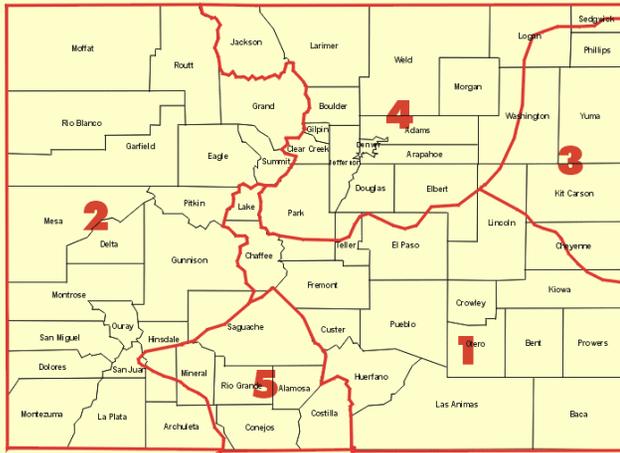
Elevation (ft)	% Reduction
6,000 to 12,000	20
Above 12,000	30

West of the Continental Divide

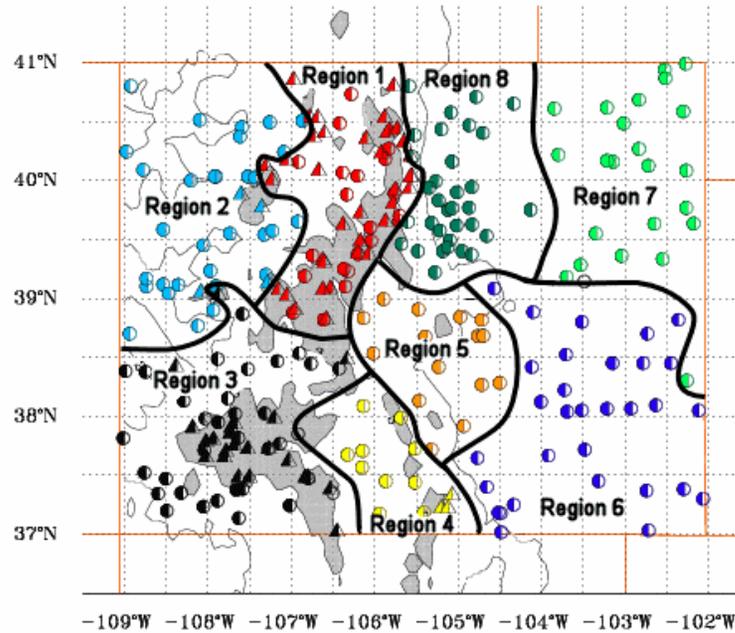
Elevation (ft)	% Reduction
5,000 to 8,000	20
Above 8,000	30

Micro-Climates

Colorado

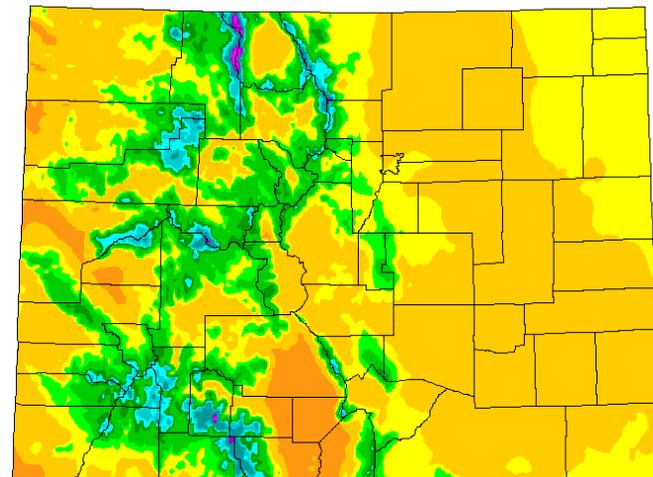


COLORADO



Average Annual Precipitation

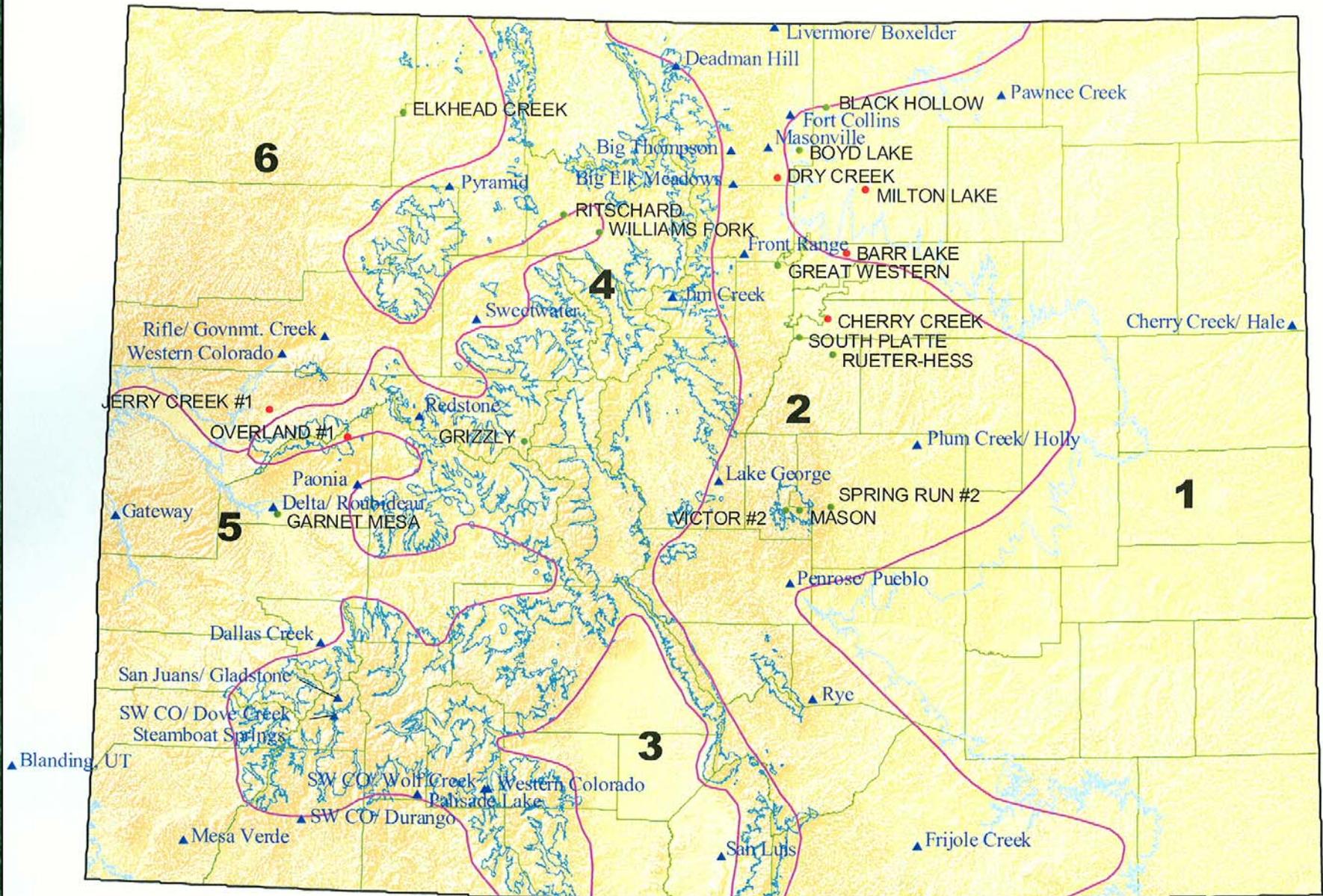
Colorado



This is a map of annual precipitation averaged over the period 1961-1990. Station observations were collected from the NOAA Cooperative and USDA-NRCS SnotNet networks, plus other state and local networks. The PRISM modeling system was used to create the gridded estimates from which this map was made. The size of each grid pixel is approximately 4x4 km. Support was provided by the NRCS Water and Climate Center.

For information on the PRISM modeling system, visit the SCAS web site at <http://www.ocs.orst.edu/prism>

The latest PRISM digital data sets created by the SCAS can be obtained from the Climate Source at <http://www.climate-source.com>



Questions?



The End