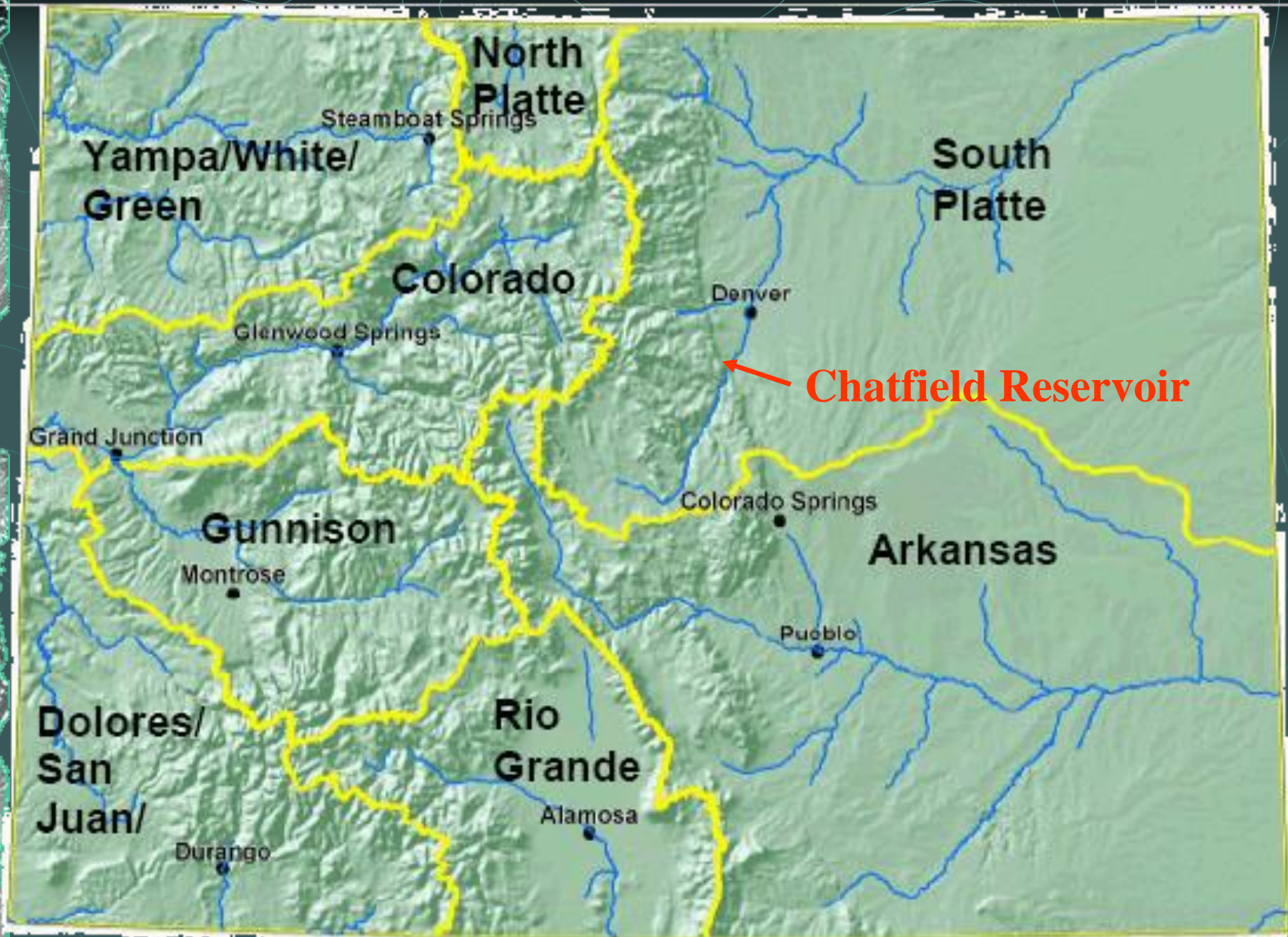


Chatfield Reservoir Reallocation Study







Plum Creek

South Platte

Emergency Spillway

Chatfield Reservoir Reallocation

BACKGROUND



Chatfield Reservoir History:

- 1965 Flood Disaster on Plum Creek/S. Platte River
- Severe Flood Damage and Fatalities in Metro Area
- Facility constructed by Corps for Flood Control
- Chatfield works in harmony with Bear Creek and Cherry Creek Reservoirs (known as Tri-Lakes Project)





"Tri-Lakes" Reservoirs

Bear Creek

Cherry Creek

Chatfield

Image U.S. Geological Survey

Google

39°36'57.01" N 105°00'20.25" W

elev 5380 ft

Jul 31, 2007

Eye alt 22.40 mi

A vertical strip on the left side of the slide shows a topographic map of the Chatfield Reservoir area. It features contour lines, a yellow line representing a road or boundary, and a blue area representing the reservoir. The map is partially obscured by the dark green background of the slide.

Chatfield Reservoir Reallocation

Need for the proposed action:

- **Increasing demand for water supply**
- **Lack of ability to construct new on-line reservoirs**
- **Chatfield is in a key location to help meet current and future M&I, agricultural, and other water needs in the South Platte Basin.**

A vertical strip on the left side of the slide shows a topographic map of a river valley. It features contour lines, a river channel, and some infrastructure like roads or railways.

Q: What is a Reservoir Reallocation?

A: Converting existing storage space from one use (flood control) into another use (water supply)

Chatfield Reservoir Reallocation

Project Highlights:

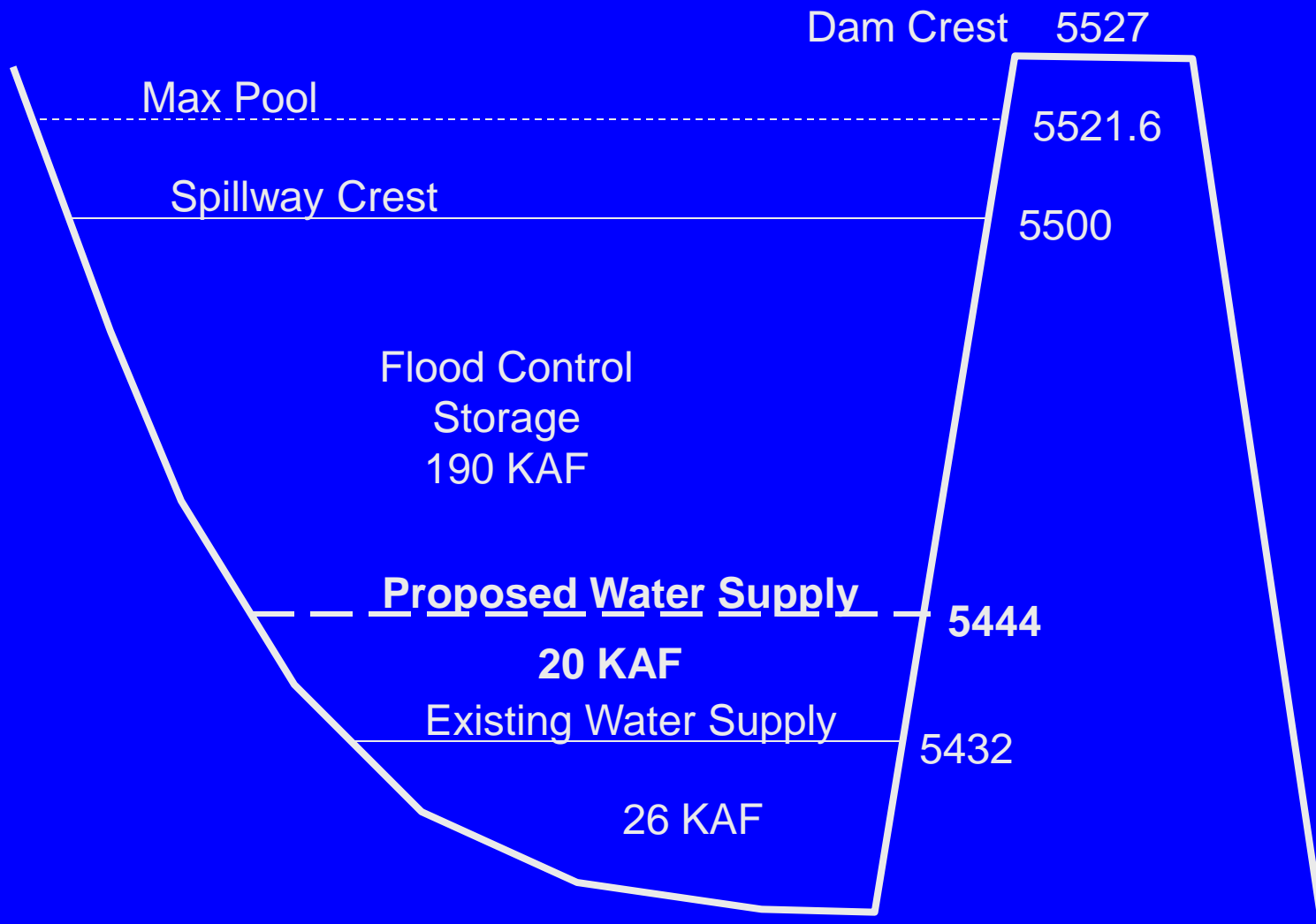
- Targeted reallocation volume is 20,600 AF
- No physical modifications to dam or spillway
- Potentially viable and affordable opportunity for water supply storage along the Front Range
- Recreation modification and environmental mitigation for proposed action are extremely important
- Strong partnership among diverse interests to work on a large-scale Feasibility Report and EIS!

Chatfield Reservoir Reallocation

Technical Information



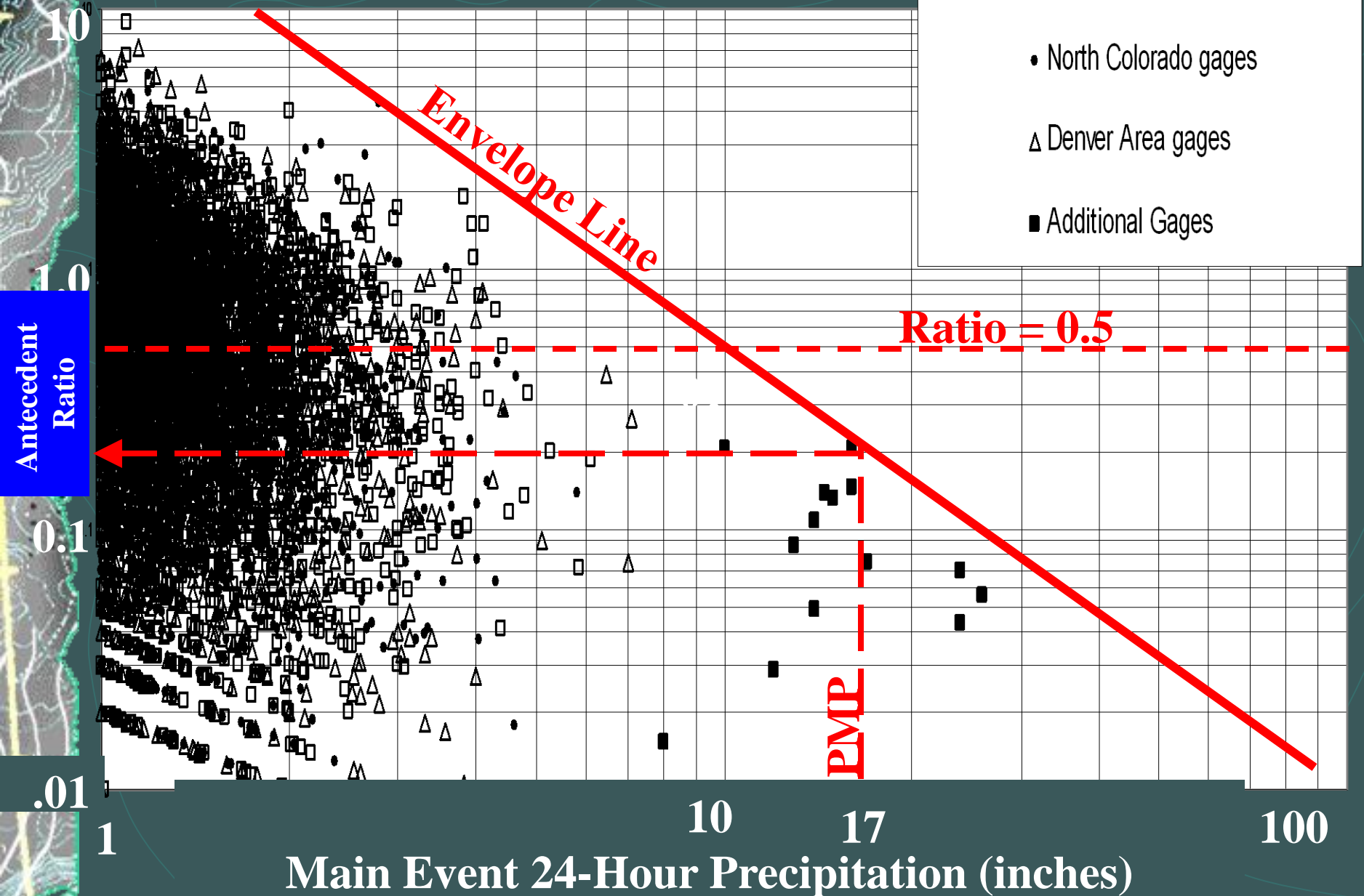
Chatfield Dam Proposed Storage Zones



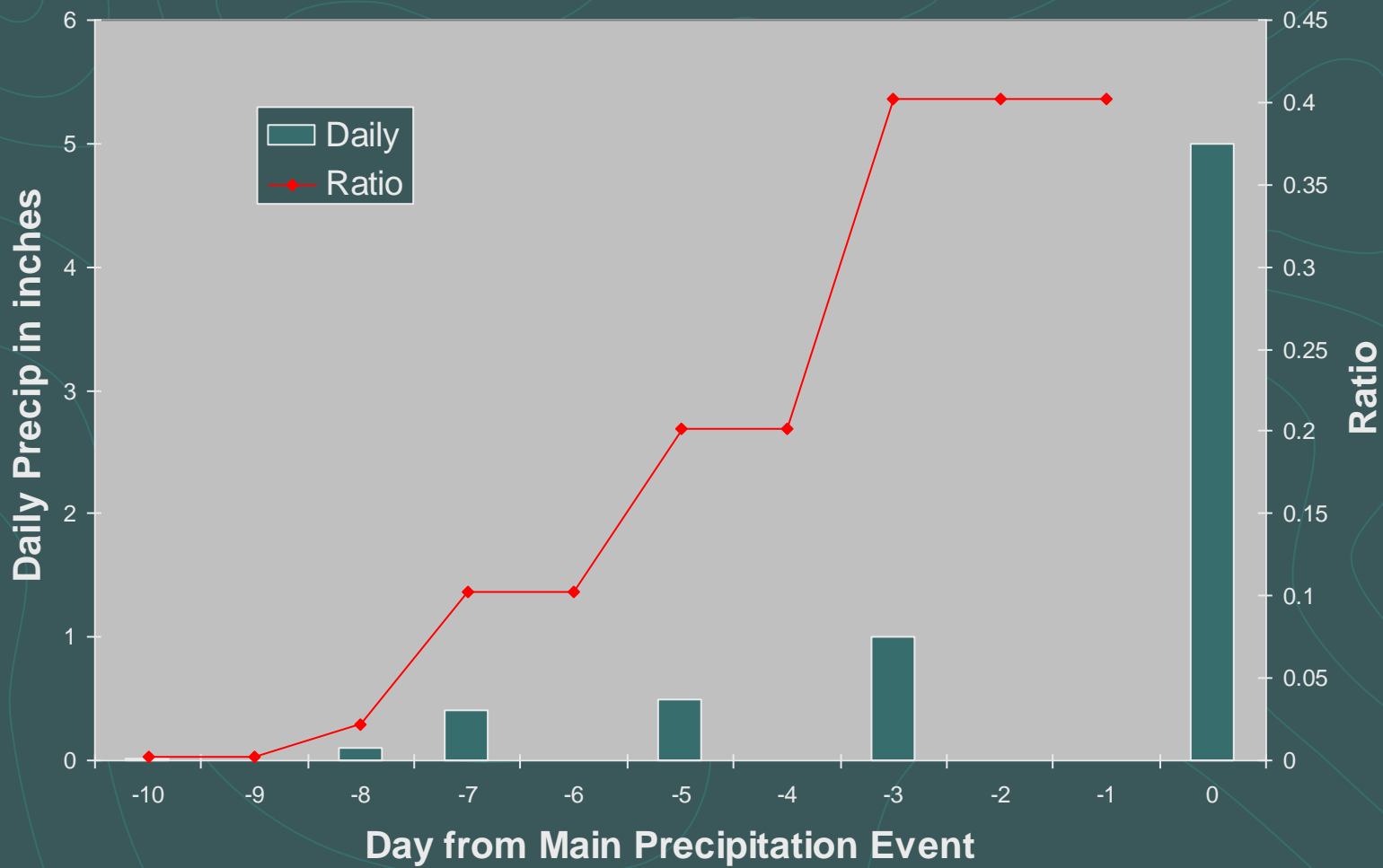
Not to Scale

10-Day Antecedent Precipitation Ratios

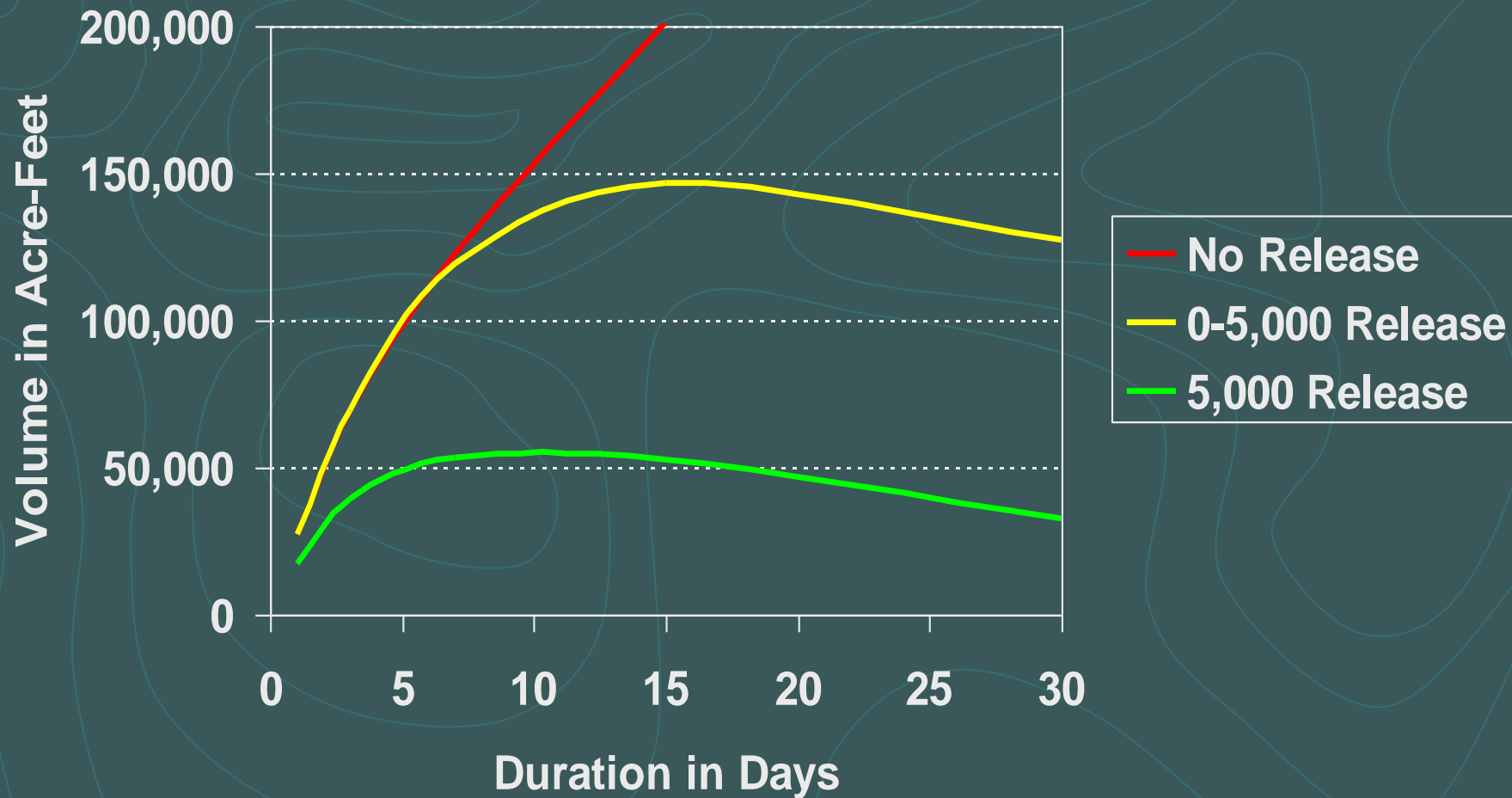
10 Day Antecedent



10-Day Antecedent Precipitation



Chatfield 500-Year Inflow Volume Duration



Operational Changes

A vertical strip on the left side of the slide shows a topographic map of the Chatfield Reservoir area, with contour lines and a yellow line indicating a path or boundary.

Chatfield Reservoir Reallocation

Major Policy Issues

- Can the Antecedent Flood Criteria be modified to allow for reallocation to occur?
- Will the Corps allow for policy exceptions from its Land Use Development Criteria (State Park)

Chatfield Reservoir Reallocation



A vertical strip on the left side of the slide shows a topographic map of the Chatfield Reservoir area, with contour lines and a yellow line indicating a path or boundary.

Chatfield Reservoir Reallocation

Major Policy Issues

- Will the Federal Government waive its “cost of storage” criteria?
- Will the feds allow state-local partnership to implement the project?

A vertical strip on the left side of the slide shows a topographic map of the Chatfield Reservoir area, with contour lines and a yellow line indicating a path or boundary.

Chatfield Reservoir Reallocation

Participating Entities:

Upstream Water Users (11)

- South Metro Water Supply Authority
- Centennial Water and San. District
- Town of Castle Rock
- Roxborough Metro District
- Castle Pines Metro District
- Castle Pines North Metro District
- Perry Park Country Club
- Center of Colorado Water Conservancy District
- Colorado State Parks
- Denver Botanical Garden
- Mt. Carbon Metro District

A vertical strip on the left side of the slide shows a topographic map of the Chatfield Reservoir area, with contour lines and a yellow line indicating a path or boundary.

Chatfield Reservoir Reallocation

Participating Entities (cont):

Downstream Water Users (4)

- Central Colorado Water Conservancy District
- City of Aurora
- City of Brighton
- Western Mutual Ditch Company

Instream Water Users (5)

- City and County of Denver
- City of Littleton
- Denver Water
- Metro Wastewater Reclamation District
- The Greenway Foundation

Chatfield Reservoir Reallocation

Participating Entities (cont):

Project Advisors/Cooperators:

- DOW and USFWS
- The Nature Conservancy
- Audubon Society of Greater Denver
- Sierra Club, South Platte Group
- South Suburban P&RD / South Platte Park
- Colorado Environmental Coalition
- Trout Unlimited
- Western Resource Advocates
- Urban Drainage & Flood Control District



Questions?

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