



CWCB's mission is
"to conserve, develop,
protect, and manage
Colorado's water for
present and future
generations"

Non-consumptive and Consumptive Water Use



Watershed Health, Environment, and Recreation

Colorado's Water Plan sets a measurable objective to cover 80 percent of the locally prioritized lists of rivers with stream management plans, and 80 percent of critical watersheds with watershed protection plans, all by 2030.

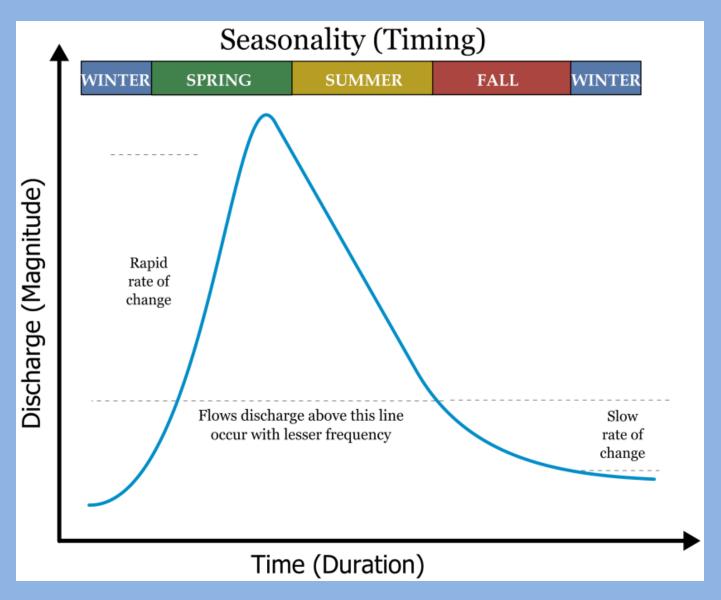


Watershed

"that area of land, a bounded hydrologic system, within which all living things are inextricably linked by their common water course and where, as humans settled, simple logic demanded that they become part of a community"

-John Wesley Powell

Stream Hydrograph





Funding

Colorado's Water Plan sets an objective to sustainably fund its implementation. In order to support this objective, the State will investigate options to raise additional revenue in the amount of \$100 million annually (\$3 billion by 2050) starting in 2020.

Colorado Water Conservation Board Watershed & Flood Protection Section

Grant Programs:

- >Colorado Watershed Restoration Program (CWRP)
 - **✓Watershed/Stream Restoration and Protection** grants
 - **√Flood Mitigation grants**
 - √Stream Management Plan grants
 - **✓ CWCB** Monitoring projects
- >Invasive Phreatophyte Control Program (IPCP)
- >Colorado Healthy Rivers Fund (CHRF)
- Fish and Wildlife Resources Fund (FWRF)

⚠ WARNING ⚠



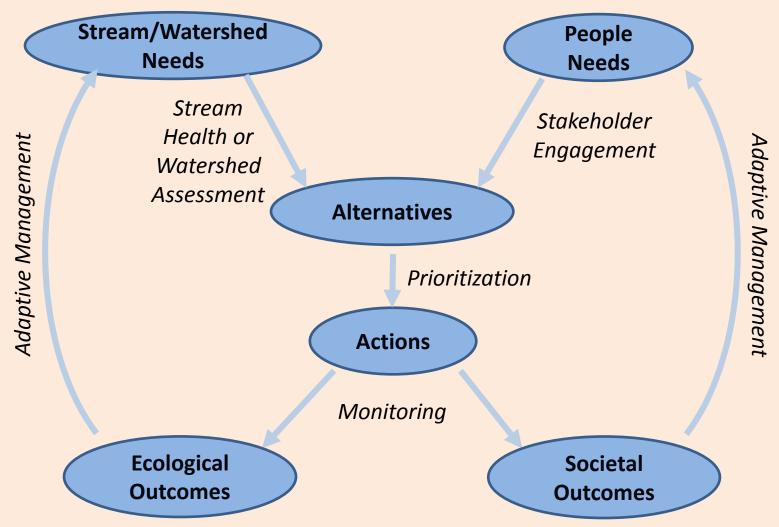
Process and Methodology

TO AVOID INJURY
DON'T TELL ME HOW

TO DO MY JOB

Stream Management and Watershed Planning

adapted from **Colorado Stream Health Assessment Framework.** A holistic health assessment tool for stream management and restoration planning *Presented by: Mark Beardsley, EcoMetrics & Brad Johnson, Johnson Environmental Consulting*



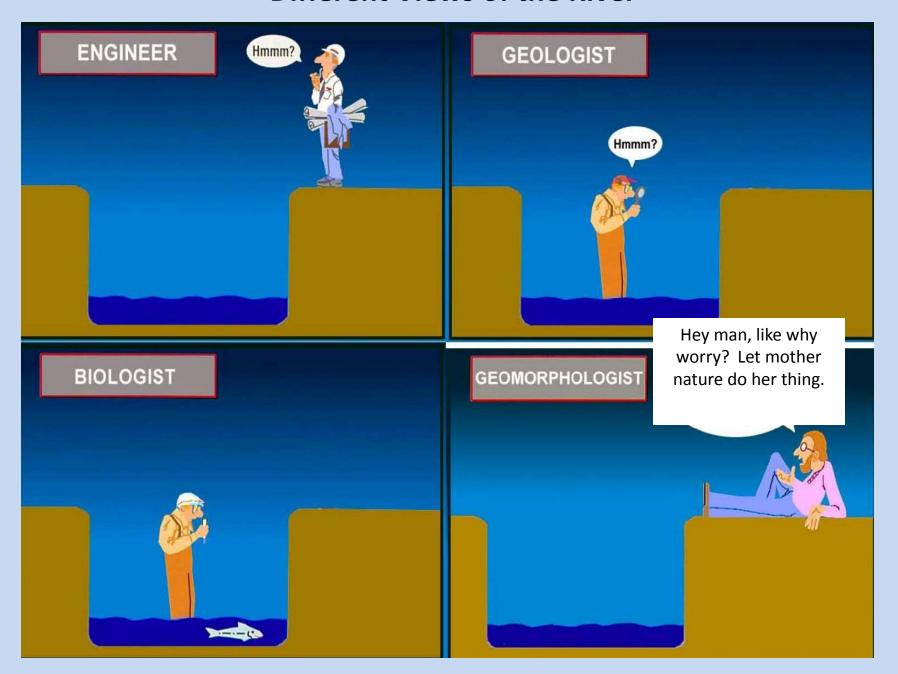
"A collaborative approach to watershed planning includes stakeholder involvement and management actions supported by sound science"

Watershed Coalitions

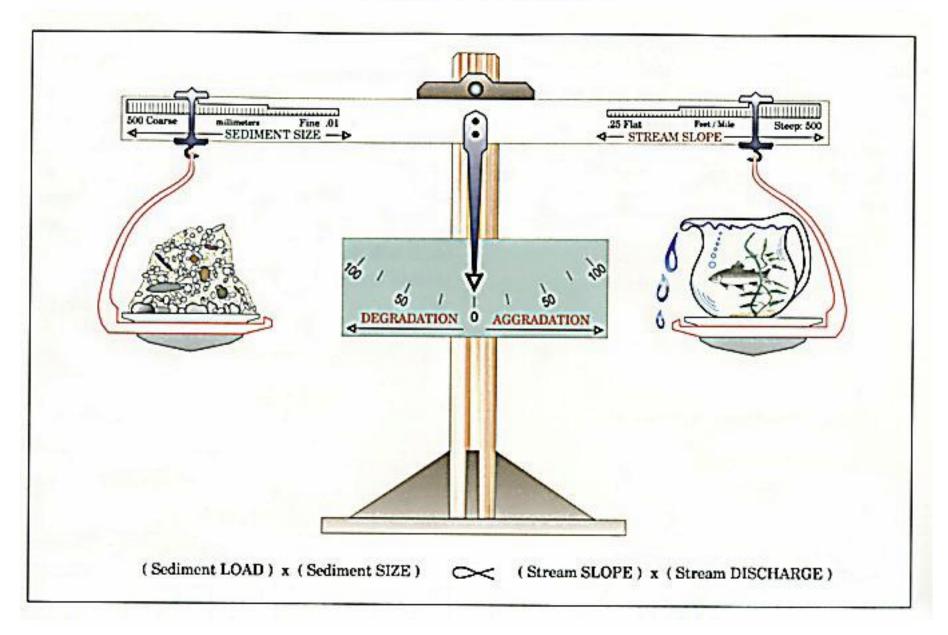


"Water is personal, water is local, water is regional, water is statewide. Everybody has a different idea, a different approach, a different issue, a different concern. Water is the most personal issue we have.."

Different Views of the River



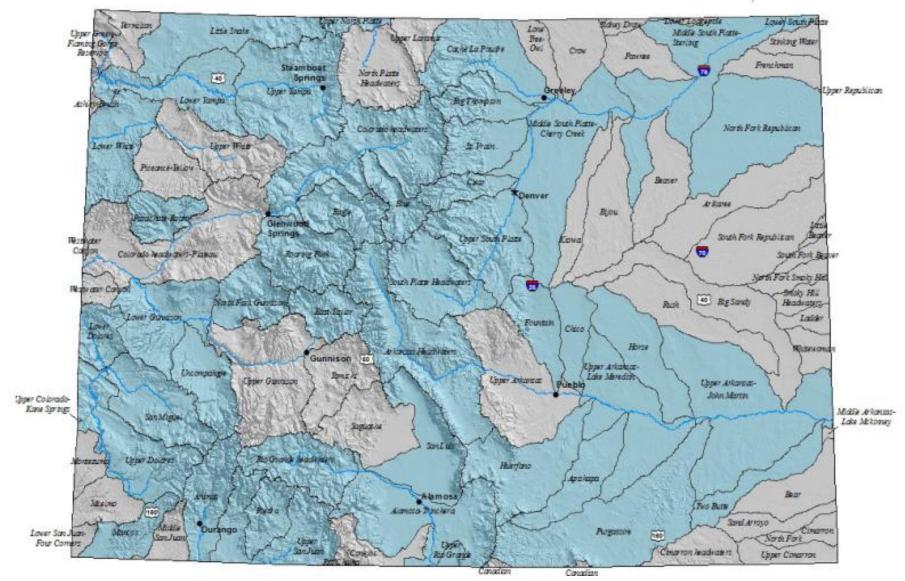
Lane's Balance



Colorado Watersheds

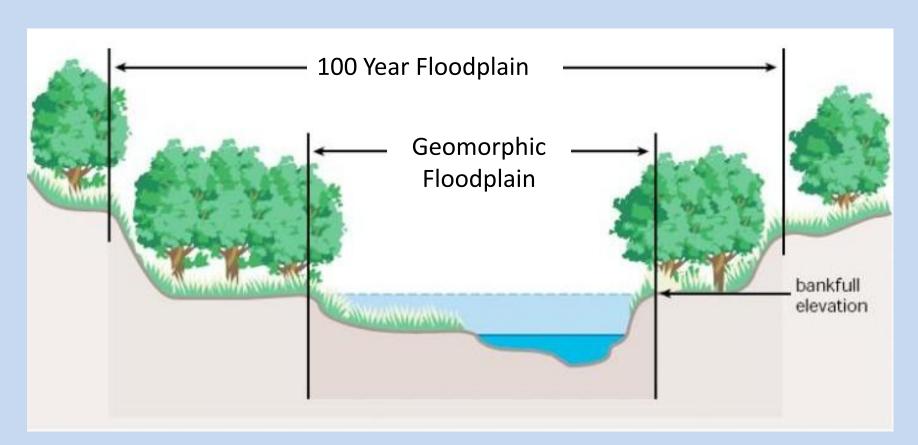
USGS Hydrologic Unit Code (HUC) 8 Scale Sub-Basins



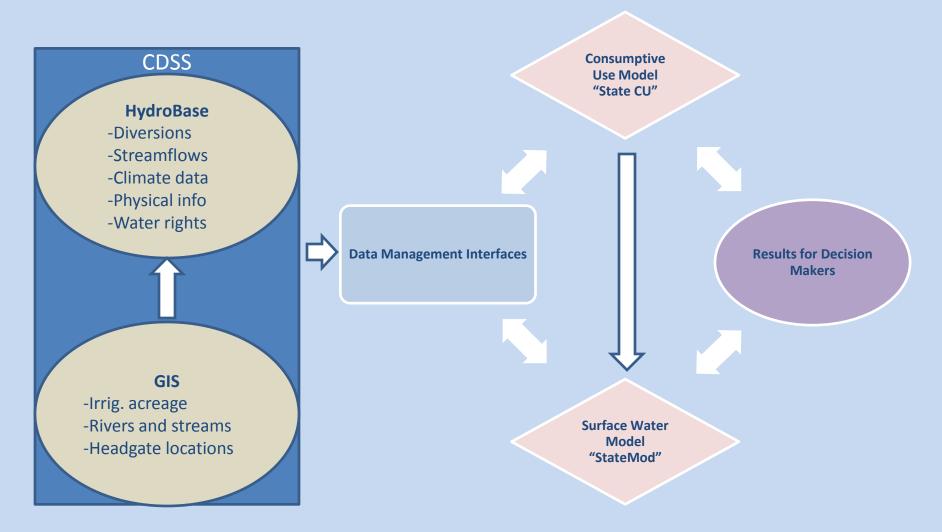


Stream Management Plans

- -Stakeholder Driven Collaborative
- -Assess Hydrology, Biology, Geomorphology
- -ID Flows and other Physical Conditions that Support Objectives
- -Incorporate Goals Identified Locally and in Basin Implementation Plans
- -ID and Prioritize Actions to Achieve Progress to Maintain/Improve Flow Regimes and Physical Conditions

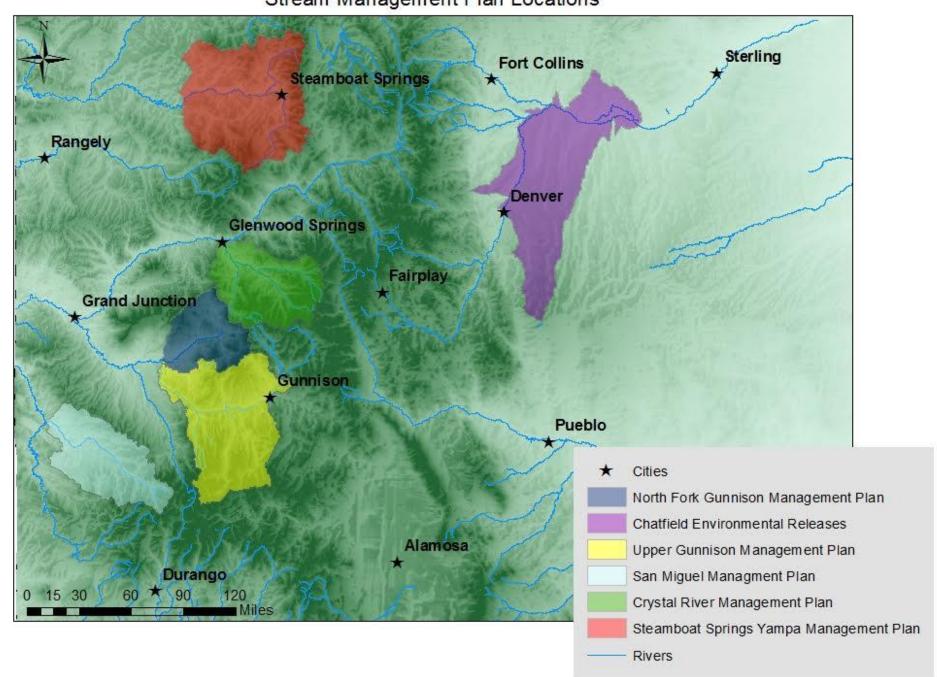


CDSS Data-Centered Approach



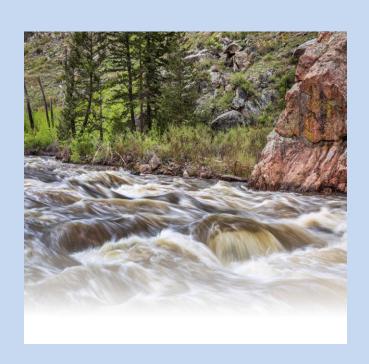
cdss.state.co.us

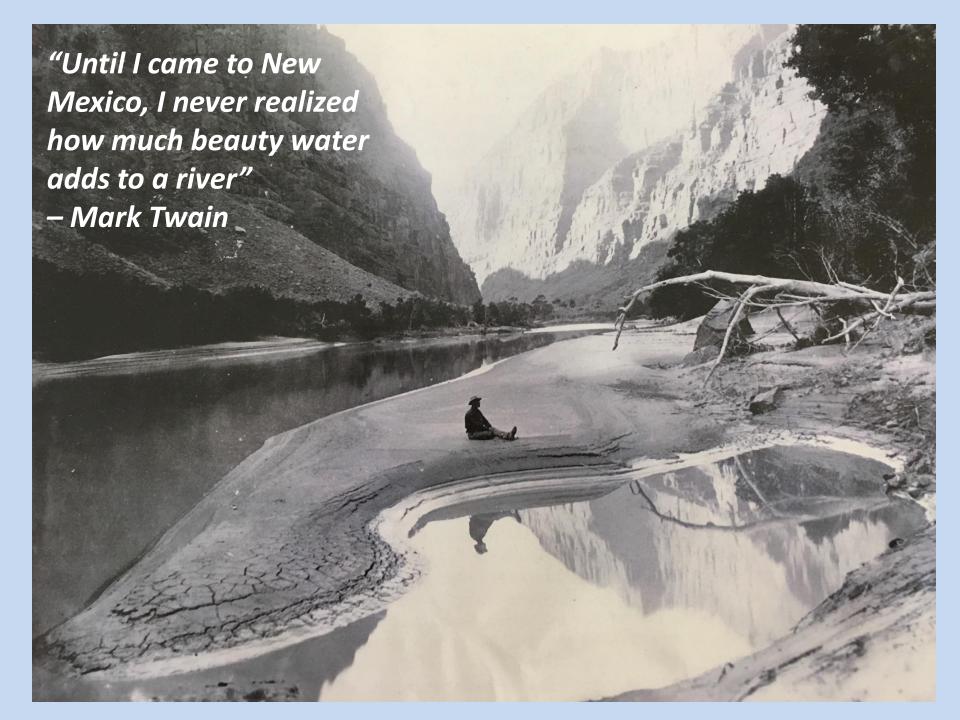
Stream Management Plan Locations



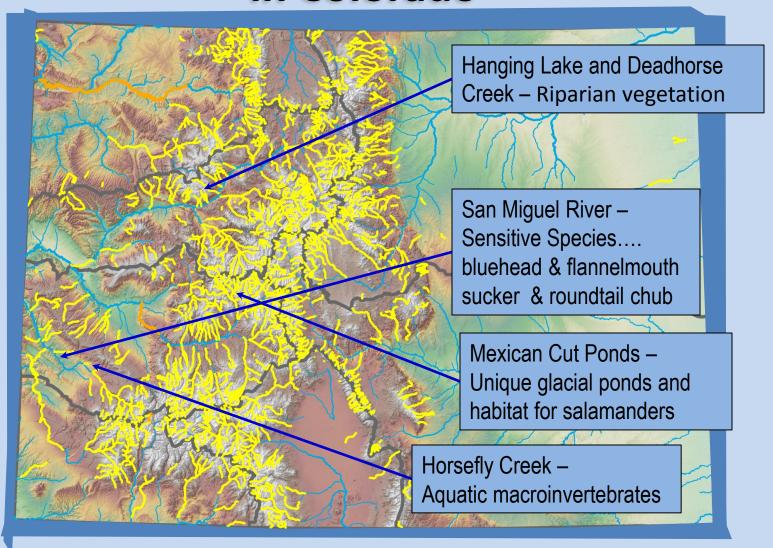
Stream Management Plan Objectives?

- Protect Life and Property
- Stabilize channel banks
- Reconnect floodplains with streams
- Manage sediment
- Reduce hazards and improve flood conveyance
- Enhance recreational opportunities
- Improve habitat





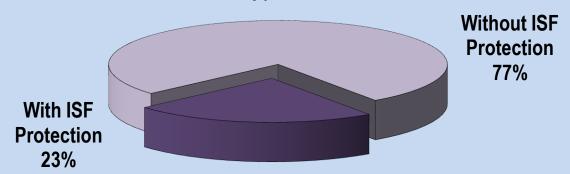
Distribution of Existing ISF Water Rights in Colorado



Yellow lines represent streams with decreed ISF rights

ISF Program Statistics

39,479 miles of perennial streams



Appropriated

Instream flow water rights on

- over <u>1,600</u> stream segments,
- covering <u>9,352</u> miles of stream,
 - and 480 natural lakes

Acquired

Over <u>26</u> water right donations or long-term contracts for water totaling

420 cfs and 9,340 AF

Mapping & Regulating Fluvial Hazard Areas

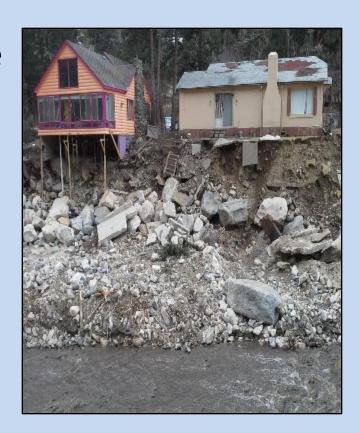


Jamestown, Colorado following the 2013 flood. Retrieved from: Steppe Newsletter



Objectives of Fluvial Hazard Mapping

- Reduce property loss and damage
- Promote river planning and management on a watershed scale
- Increase channel stability by improving floodplain connection and sediment transport
- Reduce public expenditures for disaster response and recovery (avoidance is cost-effective in the long run)
- Protect riparian habitat
- Encourage multiple uses of riparian areas





Swan River Restoration Site

