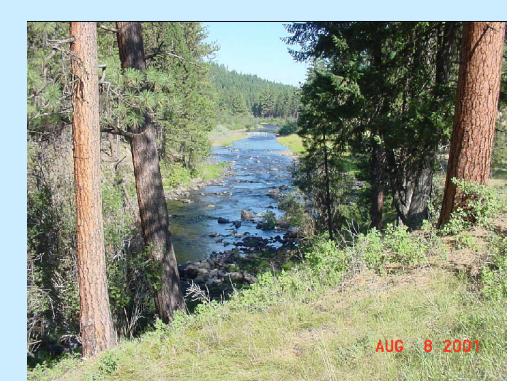
Fisheries Conservation Through Instream Flow Protection and Angling Closures

Bill Schenk

Montana Department of Fish, Wildlife and Parks

Instream Protection Methods

- Murphy Rights (Statutory Designation)
- Water Reservations
- Water Leasing
- Storage
- Basin Closures



- Yellowstone River Basin
 - 8 municipalities
 - 14 conservation districts, and
 - 6 state and federal agencies

(Priority date December 15, 1978)

• Upper Missouri River Basin

- (Above Fort Peck Dam)
- 17 municipalities,
- 15 conservation districts, and
- 4 state and federal agencies.

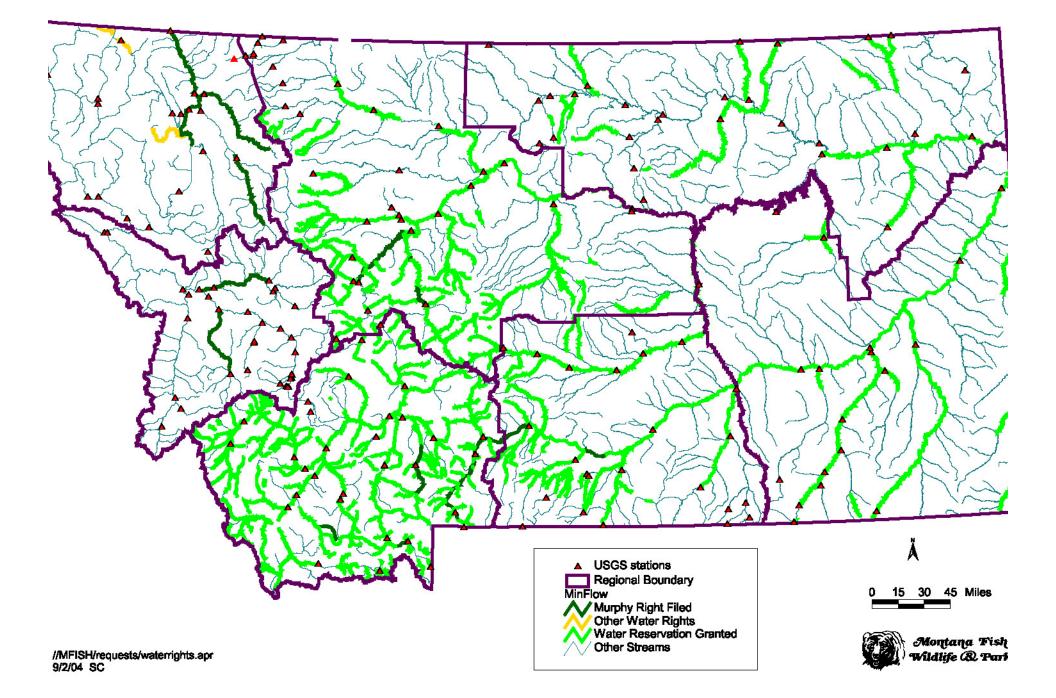
Priority date July 1, 1985

- Lower Missouri River Basin
- (Below Fort Peck Dam)
 - 9 municipalities,
 - 8 conservation districts, and
 - 1 state agency.

Little Missouri River basin

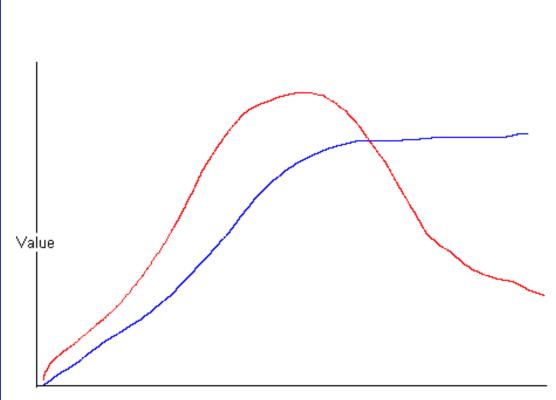
- Water Reservations granted to:
 - 2 municipalities,
 - 3 conservation districts, and
 - 1 state agency.

(Priority date July 1, 1985)



Instream Flow Needs

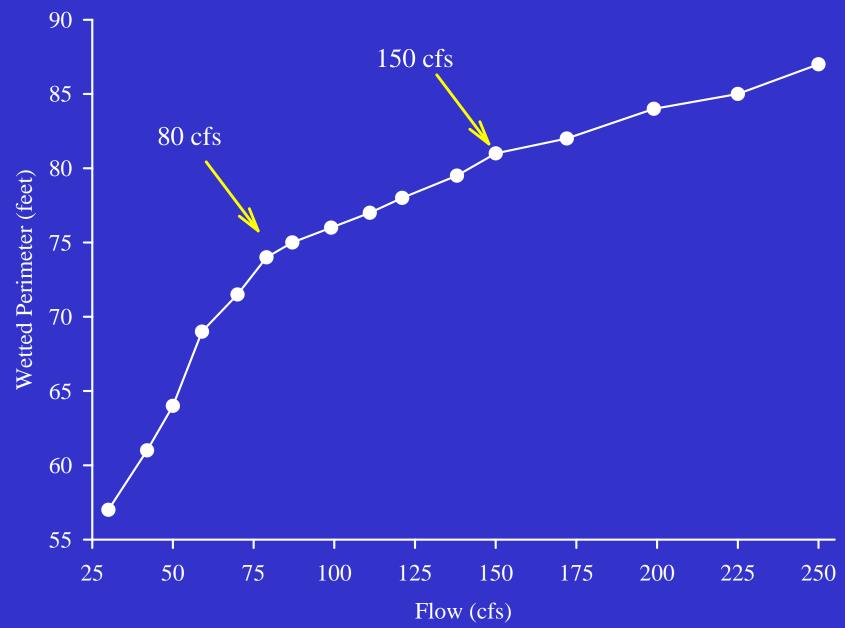
 Assumption that there is a relationship between flow and instream resource values (e.g., fish, recreation, navigation, etc.)



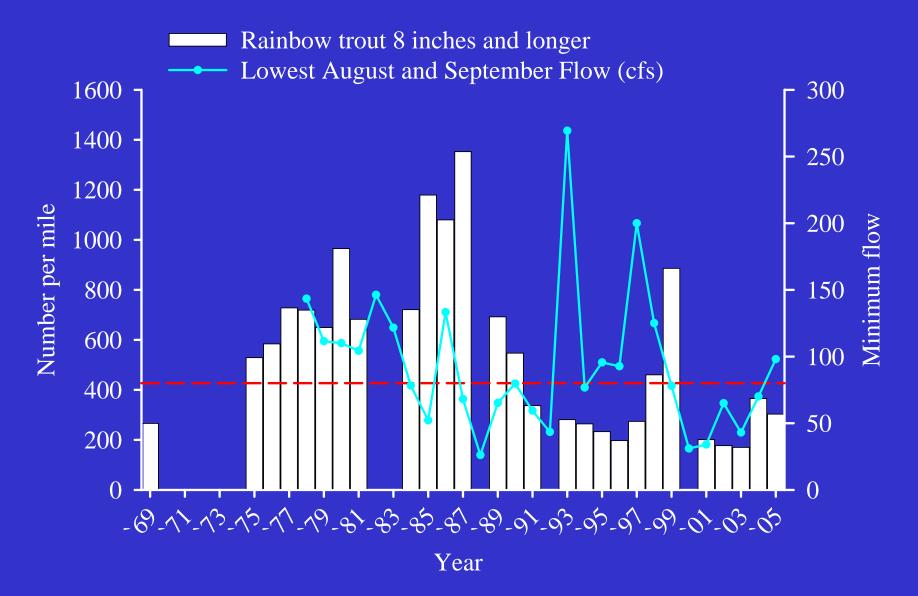
Smith River

Recruitment and Summer Flows

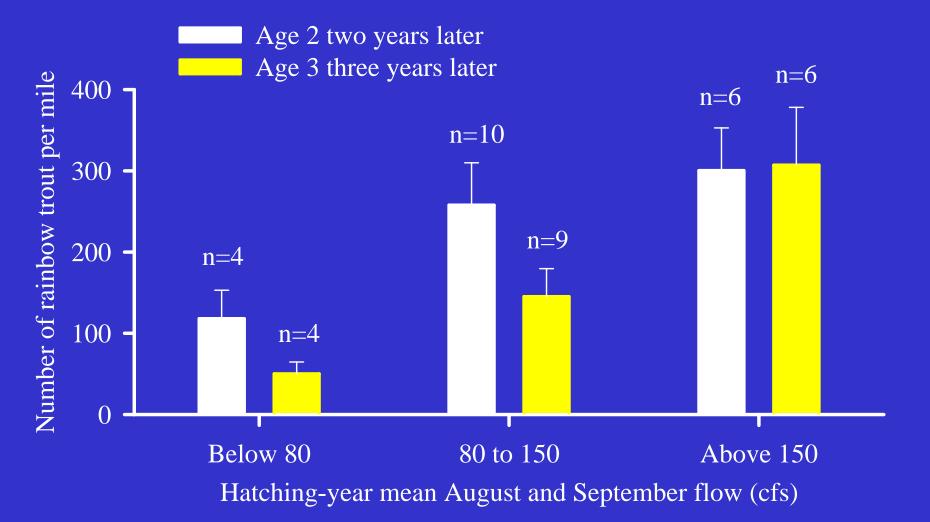
Relationship between available habitat in riffles (wetted perimeter) and flow in the Smith River



Adult rainbow trout and low summer flows

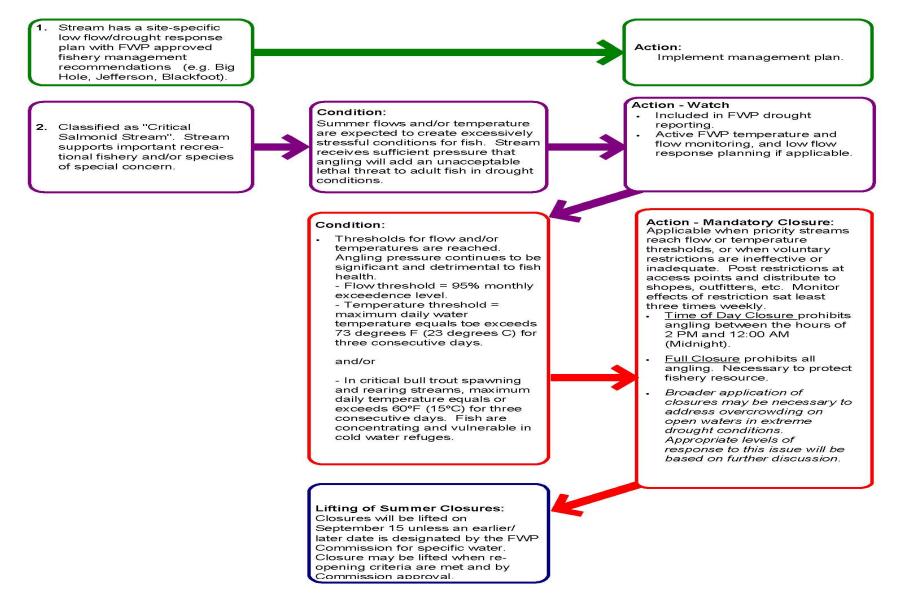


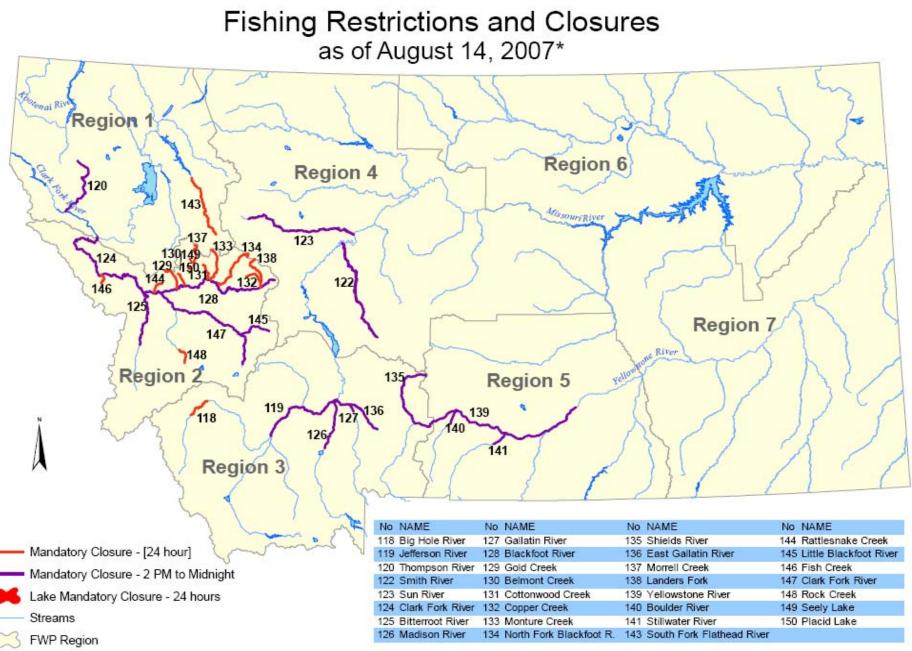
Relationship between rainbow trout recruitment and average hatching-year flow during August and September in the Smith River



FWP Fishing Closure Considerations Flow Chart

For Cold Water Streams in Summer Low Flow Conditions





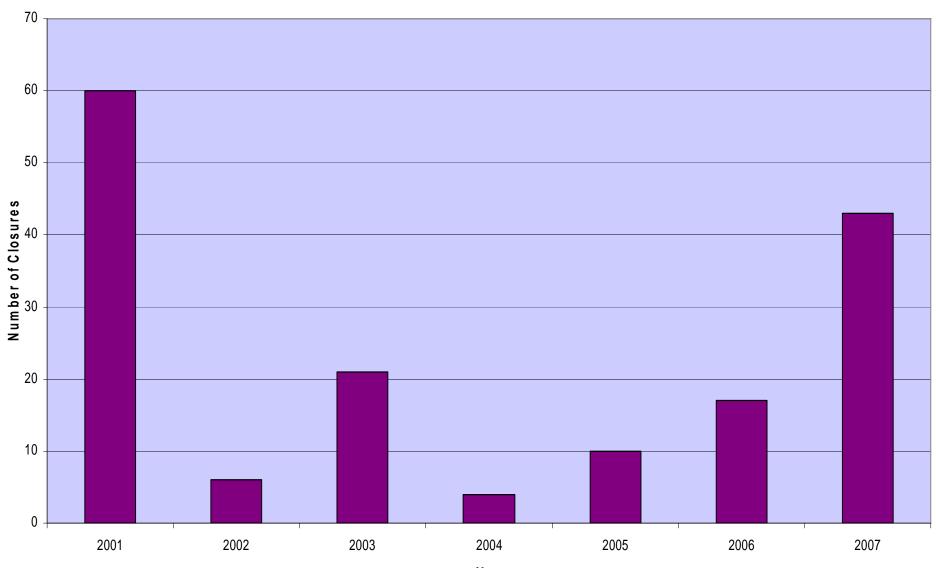
*Map is updated as new closures are posted.

Refer to http://fwp.mt.gov/fishing/guide/waterclosure.aspx for a current list of all active closures. Rev.14



Fishing Closures - Recent History

Number of Fishing Closures



Year

Local Planning Areas

- Nearly 50 local planning groups / watershed groups.
- Collaborative, multistakeholder & often consensus based decision making.
- Management focus vs. quantification of rights.

Watershed Group List

Big Hole Watershed Committee Big Spring Creek Watershed Partnership Bitter Root Water Forum Blackfoot Challenge - Blackfoot River Watershed **Bobtail Creek Watershed Group Buffalo Rapids Watershed Project Bullhead Water Ouality Project Careless Creek Watershed Cedar Creek Watershed Project** Deep Creek Watershed **Devil's Kitchen Management Team** East Pioneer Experimental Stewardship Committee Elk Creek Watershed Council **Flathead Basin Commission** Flint Creek Watershed Kootenai River Network, Inc. Lake Creek Partnership Lonesome Lake Coordinated Resource Management Group Lower Missouri River - Coordinated Resource Mananagement Milk River Watershed Nevada Creek Watershed Prospect Creek Rock Creek Trust **Ruby Valley Watershed Program Snowline Grazing Association - CRM** Sourdough Creek Stone Creek Sun River Watershed Sweathouse Creek **Teton River Watershed Group Tri-State Implementation Council Upper Clark Fork River Basin Steering Committee** Upper Shields Upper Tenmile Watershed Steering Group Upper Yellowstone River Task Force White Pine Creek

Blackfoot Emergency Drought Response Plan



- 3,185 surface water rights in basin.
- 40% (1,270 water rights) > 1 cfs (448 gpm)/65% irrigators.
- 10% of these water rights are on the Blackfoot river mainstem.
 DNRC water rights data base - 2000

Plan Premise:

Shared Sacrifice
Voluntary actions
Equity and Parity in participation:

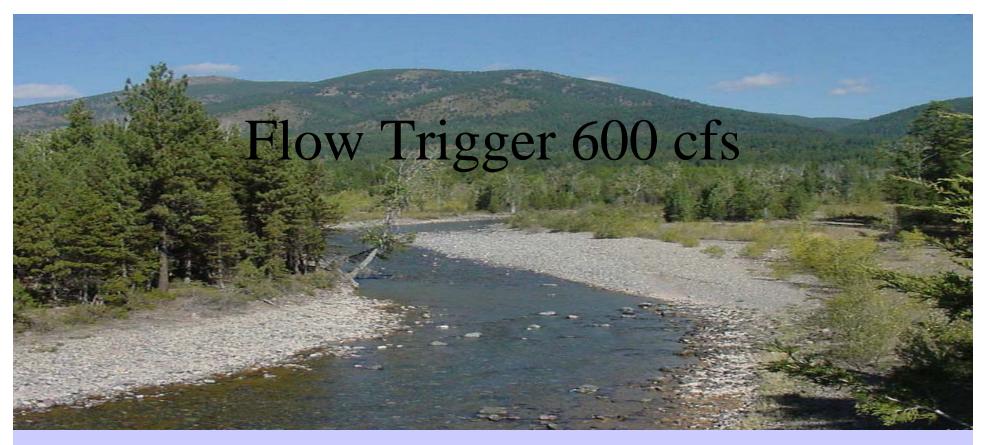
Junior and Senior water users
Multiple users and uses
Basin-wide participation

- In-stream flow water right at Bonner, MT - Contact Plan Participants to implement **Conservation Plans.** Confer with FWP regarding low flow & temperature conditions. -FWP/DNRC begin monitoring river/streams - Drought Committee recommends "Call List" to FWP. - FWP reviews/issues Murphy Right "Call."

Flow Trigger

700 cfs

St. Altartak



- Committee convenes and confirms participation.
- Voluntary fishing restrictions implemented.
- Anglers & Outfitters asked to reduce fishing pressures
- Based upon temperatures mandatory restrictions on fishing & angling.
- Additional "Call" on core "bull trout" tributaries

Flow Trigger 450 cfs

- Emergency Meeting of Drought Committee called.
- Close core Bull Trout streams and reaches to all fishing.
- Request participation or additional participation, especially to senior water users.
- Evaluate junior users and determine if additional "Calls" should be made by FWP.

Storage

- 10,000 A.F. Dedicated storage in Painted Rocks; 2,000 in Como
- Goal: 402 cfs at **Bell Crossing**





Painted Rocks Reservoir