

Henry's Fork Basin Study Reconnaissance Alternatives Scoping

Henry's Fork Basin Study
Interpretation of Issues, Opportunities, Constraints & Ideas

Goals and Objectives		First Phase Alternatives Screening Criteria	
Water Supply (WS) Goal WS: Provide increased water supply to meet Basin needs and help meet downstream State needs		Potential for adverse effect	Potential for beneficial effect
Issues:			
WS-1: Provide new or enhanced storage to meet Basin needs to support all uses - Irrigation (especially upriver and of season supply) - CDM (especially riparian city and colony growth) - Power production	Potential to meet existing and future needs in the Basin:	T	T
WS-2: Provide new or enhanced storage to help meet Basin needs such as meeting mitigation requirements and achieving CDMF objectives	Potential to help meet State needs:	T	T
WS-3: Enhance water supply through improvements in water management (e.g., distribution system improvements, conservation, re-use)	Potential to provide supply to help meet State needs:	T	T
Water Rights, Legal and Contractual Requirements (WR) Goal WR: Protect existing water rights and work within existing Snake River riparian legal and contractual requirements		Potential for adverse effect	Potential for beneficial effect
Issues:			
WR-1: Avoid adverse impact on existing surface or groundwater rights	Potential for adverse impacts on existing water rights (surface or groundwater):	T	T
WR-2: Protect current operations and meet commitments of the Henry's Fork as part of the larger Snake River system	Potential for adverse impacts on ability to meet current contracts and other legal requirements:	T	T
WR-3: Provide a process for participation in the Basin to obtain additional water rights to meet growth needs	Potential to provide opportunity to obtain new water rights:	T	T
Natural Environment (NE) Goal NE: Protect, sustain, and seek to enhance natural resource values in		Potential for adverse effect	Potential for beneficial effect

Brainstorming: Basin Study Goals & Objectives

- Workgroup roundtable discussion produced list of issues, opportunities, constraints, and ideas related to Basin Study
- Study team developed translation into Goals and Objectives and Alternative Screening Criteria in major categories of Water Supply, Water Rights, Legal and Contractual Requirements, Natural Environment, Socioeconomic Environment
- Matrix used to make relative comparisons of alternatives: "Potential for adverse effect" versus "Potential for beneficial effect"
- This tool is expected to be of higher value as we develop additional detail and begin comparison of alternatives in the Reconnaissance Evaluation Phase

Draft Table C. Attribute and Information Summary of Water Supply Alternatives, Henry's Fork Basin Study (Water Supply)

Alternative	Storage Potential (AF)	Potential (Growth Potential)	Flood Control	Natural Environment (NE)			Social	Socioeconomic Environment (SE)
				Wildlife Habitat	Fishery and Riparian	Species of Special Concern		
Arden Dam Replacement	25,000-40,000	2	3	1	2	2	1	1
Black Creek	200,000	2	2	2	2	2	2	1
Easton Creek	10,000-15,000	2	2	1	2	2	2	1
Current Creek	20,000-40,000	2	2	2	2	2	2	1
Dryer	50,000	1	1	1	2	2	2	1
Harrower Bridge/Retain	500,000	1	1	2	2	2	2	1
Marysville Creek	10,000 ³	1	1	1	2	2	2	1
Meadow Creek	10,000-30,000	2	2	2	2	2	2	1
Utah Park Replacement	NA	3	3	3	3	3	3	3
JF Reach	40,000-100,000	2	2	2	2	2	2	1
Lower Middle Lake	10,000-70,000	2	2	2	2	2	2	1
Lower Middle Lake	70,000-75,000	2	2	2	2	2	2	1
Marysville Reach	20,000-50,000	2	2	2	2	2	2	1
Meadow Creek (Water Dam)	40,000-50,000	2	2	2	2	2	2	1
Meadow Creek	10,000	2	2	2	2	2	2	1
Park Lake	10,000-30,000	2	2	2	2	2	2	1

Data: Attribute and Information Summary Table

- Compile and summarize literature information and sources
- Summarize physical attributes, characteristics, and site-specific information of alternatives
- Evaluate each alternative in terms of Water Supply, Natural Environment, and Socioeconomic Environment
- Use color codes to "rate" relative impacts and benefits of alternatives and make comparisons

Desired Output: Alternative Prioritization – Where we are going

- Color codes assigned numeric value to produce "score"
- All criteria weighted equally
- Summary of ranked alternatives

Draft Table E. Attribute and Information Summary of Water Supply Alternatives, Henry's Fork Basin Study

Alternative	Storage Potential (AF)	Water Supply (WS)			Natural Environment (NE)			Social	Socioeconomic Environment (SE)		
		Potential (Growth Potential)	Flood Control	Wildlife Habitat	Fishery and Riparian	Species of Special Concern	Local Economic		Regional Economic	Infrastructure	
Arden Dam Replacement	25,000-40,000	2	3	1	2	2	1	1	1	1	
Black Creek	200,000	2	2	2	2	2	2	2	2	1	
Easton Creek	10,000-15,000	2	2	1	2	2	2	2	2	1	
Current Creek	20,000-40,000	2	2	2	2	2	2	2	2	1	
Dryer	50,000	1	1	1	2	2	2	2	2	1	
Harrower Bridge/Retain	500,000	1	1	2	2	2	2	2	2	1	
Marysville Creek	10,000 ³	1	1	1	2	2	2	2	2	1	
Meadow Creek	10,000-30,000	2	2	2	2	2	2	2	2	1	
Utah Park Replacement	NA	3	3	3	3	3	3	3	3	3	
JF Reach	40,000-100,000	2	2	2	2	2	2	2	2	1	
Lower Middle Lake	10,000-70,000	2	2	2	2	2	2	2	2	1	
Lower Middle Lake	70,000-75,000	2	2	2	2	2	2	2	2	1	
Marysville Reach	20,000-50,000	2	2	2	2	2	2	2	2	1	
Meadow Creek (Water Dam)	40,000-50,000	2	2	2	2	2	2	2	2	1	
Meadow Creek	10,000	2	2	2	2	2	2	2	2	1	
Park Lake	10,000-30,000	2	2	2	2	2	2	2	2	1	