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Managing Water in the West

Henrys Fork Basin Study Workgroup Meeting 4

In Cooperation with:

Idaho Water Resource Board

and

Henrys Fork Watershed Council

U.S. Department of the Interior

Bureau of Reclamation

Meeting Agenda

- **Introduction**
  - Introductions of core workgroup
  - Comments on meeting 3 summary
  - Process summary for new participants
- **Issues, Opportunities… → Finalize List**
- **Interpretation of Issues, Opportunities…**
  - Goals & Objectives → Evaluation Criteria
  - Input to alternatives and study process
- **Use of Goals, Objectives & Criteria Matrix**
- **Wrap-up and Adjourn**

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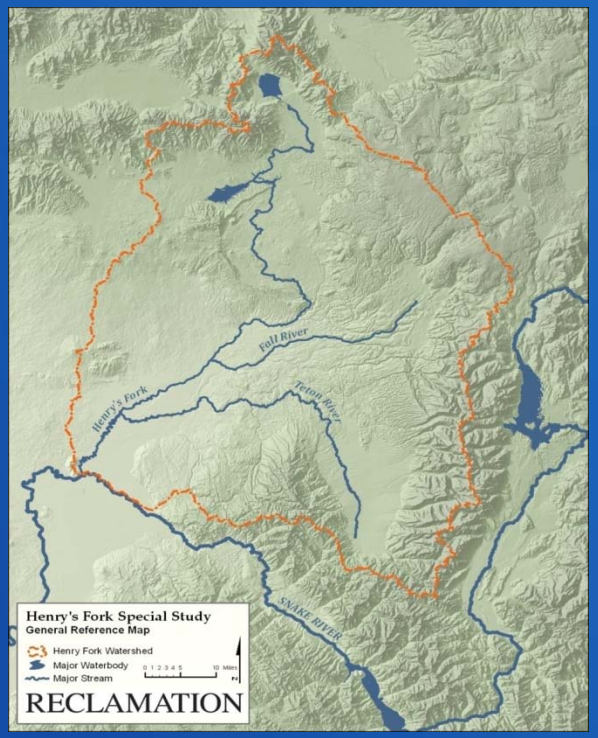
Process Summary

Study Objectives

- Assess Options in the Basin to:
  - Develop Additional Water Supply
    - Surface storage
    - Groundwater storage
  - Improve Water Management
    - Conservation
    - Water markets
    - Other approaches?



- Help meet State water management needs
- Meet needs in the Henrys Fork Basin
- Sustain environmental qualities and values

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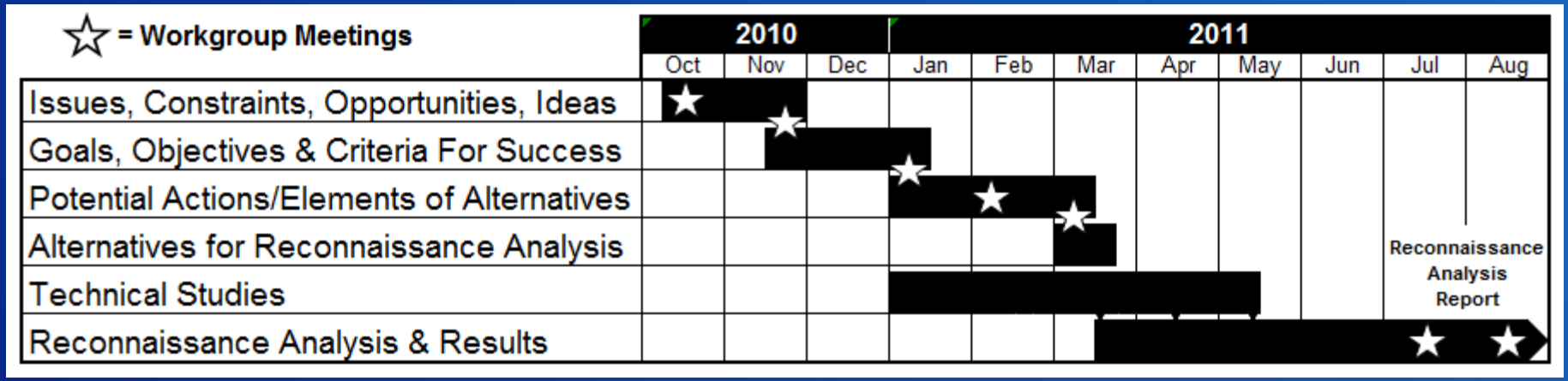
Process Summary

Current Work Steps & Schedule



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Process Summary

Core Workgroup Approach

- Designated representatives from all key interests:
  - Continuity throughout a complex process
  - Commitment to attend meetings, review and comment on work products
  - Full background/"history" as decisions & recommendations are made
  - Experience & credibility of constituent representation
- With opportunities for comment & input by other attendees at each meeting

Process Summary

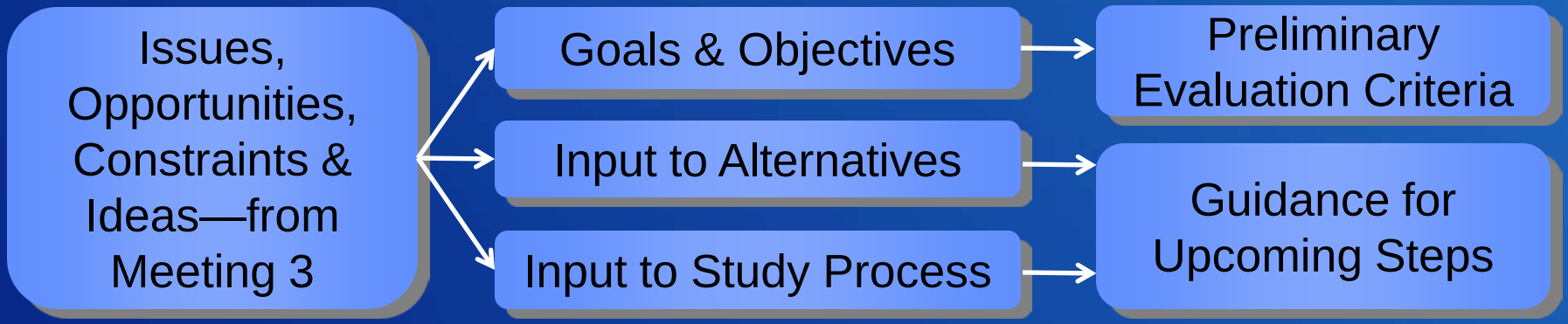
Core Group Expectations & Role

- Attend all workgroup meetings (in partnership with an alternate if necessary)
- Represent & be available to the broader constituency
- Remain open to multiple points of view
- Not a formal advisory committee (as defined in Federal regulations)

Discussions

- Issues, Opportunities, Constraints & Ideas
  → Finalize List
- Interpretation of Issues, Opportunities, Constraints and ideas
- Use of Goals, Objectives & Criteria Matrix

Interpretation of Issues, Opportunities, Constraints and Ideas



Interpretation of Issues, Opportunities, Constraints and Ideas

Issue and Opportunity Statements	Goals and Objectives
	Water Supply (WS)
• Existing storage is committed. New storage would provide the opportunity to meet new needs and accomplish new things	WS-1 Provide additional in-Basin storage
• There is a need for new water storage, especially to support local uses • Provide new storage within Water District 1 to support all uses - Irrigation (especially augmenting end-of-season supply) - CDMI (supporting anticipated city and county growth) - Power production	WS-1.1 Provide new storage to meet Basin needs--to support all uses - Irrigation (especially augmenting end-of-season supply) - CDMI (supporting anticipated city and county growth) - Power production
• Keep regional needs and benefits in mind as well as local (including such purposes as meeting mitigation requirements and/or ESPA CAMP objectives) • Assess the interest/role of the Magic Valley water uses in this alternatives analysis. Outreach to downstream users will be important. Some concensus with these users will likely be necessary to act on significant water supply development in the Henrys Fork Basin. At present, IDWR is keeping downstream users informed about this study.	WS-1.2 Provide new storage to help meet regional and State needs such as meeting mitigation requirements and achieving CAMP objectives
• Improve the predictability and reliability of the water supply. Use available scenario planning tools. • Additional storage = flexibility. The Henrys Fork Basin in high in the river system; thus storage in this basin is more broadly beneficial • Locate new storage to meet identified need (i.e., storage location/elevation dictates where the stored water can be efficiently delivered) • Increase supply reliability for existing junior water rights, which are impacted every year • Enhance the ability to get water where it is needed, WHEN it is needed (timing of supply availability is important) • Increase flexibility in water use and management, especially for fisheries	WS-3 Increase water supply predictability, reliability and flexibility WS-3.1 Provide new storage and other supply actions at locations/elevations where water is deliverable to the largest area--to meet identified need WS-3.2 Improve ability to provide water where it is needed and when it is needed (i.e., supply timing) WS-3.3 Increase reliability of full supply for existing junior water right holders WS-3.4 Provide opportunities for fish flow enhancement when appropriate

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Interpretation of Issues, Opportunities, Constraints and Ideas

Issue and Opportunity Statements	Goals and Objectives
• Use this landscape-level study as an opportunity to shape the future--economic, environmental, land use - Shape water demand - Shape water use	WS-5 Seek water supply actions that support the vision for the future of the Basin--economic, land use, environmental (as reflected in local jurisdiction comprehensive plans)
• Related to surface storage, look at off-stream opportunities, not just on- • Consider aquifer storage as an alternative to surface storage, especially given the challenges of accomplishing new surface storage • Consider aquifer storage and recovery (ASR) as a option to meet supply needs	Input to alternatives
• With new storage, rights will be junior. Given this, an important consideration will be how often it will fill. Can we actually accomplish our water supply objectives?	Input to study process and results *("Quantify the water supply--how much do we really have? When and where is it available?")*

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Interpretation of Issues, Opportunities, Constraints and Ideas

Goals and Objectives		First Phase Alternatives Screening Criteria	Potential for adverse effect	Potential for beneficial effect
Water Supply (WS)				
Goal WS: Provide increased water supply to meet Basin needs and help meet downstream State needs				
Objectives:				
WS-1	Provide additional in-Basin storage			
	WS-1.1 Provide new storage to meet Basin needs--to support all uses - Irrigation (especially augmenting end-of-season supply) - CDMI (supporting anticipated city and county growth) - Power production	Potential to meet existing and future needs in the Basin:	High- Mod- None Mod+ High+	
	WS-1.2 Provide new storage to help meet regional and State needs such as meeting mitigation requirements and achieving CAMP objectives	Potential to help meet State needs:	High- Mod- None Mod+ High+	
WS-2	Enhance water supply through improvements in water management (e.g., distribution system improvements, conservation, re-use)	Potential to meet existing and future needs in the Basin:	High- Mod- None Mod+ High+	
		Potential to provide supply to help meet State needs:	High- Mod- None Mod+ High+	
WS-3	Increase water supply predictability, reliability and flexibility			
	WS-3.1 Provide new storage and other supply actions at locations/elevations where water is deliverable to the largest area--to meet identified need	Potential benefits in terms of service area size:	High- Mod- None Mod+ High+	
	WS-3.2 Improve ability to provide water where it is needed and when it is needed (i.e., supply timing)	Potential to improve supply availability throughout the year, especially during high demand periods:	High- Mod- None Mod+ High+	
	WS-3.3 Increase reliability of full supply for existing junior water right holders	Potential to provide full supply to existing junior rights holders:	High- Mod- None Mod+ High+	
	WS-3.4 Provide opportunities for fish flow enhancement when appropriate	Potential for supply flexibility sufficient to provide fish flow benefits:	High- Mod- None Mod+ High+	
WS-4	Protect supply to existing groundwater users	Potential for adverse impact to existing groundwater users:	High- Mod- None Mod+ High+	
WS-5	Seek water supply actions that support the vision for the future of the Basin--economic, land use, environmental (as reflected in local jurisdiction comprehensive plans)	Potential to support the vision for the future of the Basin--economic, land use, environmental:	High- Mod- None Mod+ High+	

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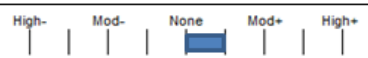
Use of Goal, Objectives, Criteria Matrix

			Storage Alternative 1	
Water Supply (WS)			Potential for adverse effect	Potential for beneficial effect
Goal WS: Provide increased water supply to meet Basin needs and help meet downstream State needs				
Objectives:				
WS-1	Provide additional in-Basin storage			
	WS-1.1 Provide new storage to meet Basin needs--to support all uses - Irrigation (especially augmenting end-of-season supply) - CDMI (supporting anticipated city and county growth) - Power production	Potential to meet existing and future needs in the Basin:		
	WS-1.2 Provide new storage to help meet State needs such as meeting mitigation requirements and achieving CAMP objectives	Potential to help meet State needs:		
WS-2	Enhance water supply through improvements in water management (e.g., distribution system improvements, conservation, re-use)	Potential to meet existing and future needs in the Basin:		
		Potential to provide supply to help meet State needs:		
WS-3	Increase water supply predictability, reliability and flexibility			
	WS-3.1 Provide new storage and other supply actions at locations/elevations where water is deliverable to the largest area--to meet identified need	Potential benefits in terms of service area size:		
	WS-3.2 Improve ability to provide water where it is needed and when it is needed (i.e., supply timing)	Potential to improve supply availability throughout the year, especially during high demand periods:		
	WS-3.3 Increase reliability of full supply for existing junior water right holders	Potential to provide full supply to existing junior rights holders:		
	WS-3.4 Provide opportunities for fish flow enhancement when appropriate	Potential for supply flexibility sufficient to provide fish flow benefits:		
WS-4	Protect supply to existing groundwater users	Potential for adverse impact to existing groundwater users:		
WS-5	Seek water supply actions that support the vision for the future of the Basin--economic, land use, environmental (as reflected in local jurisdiction comprehensive plans)	Potential to support the vision for the future of the Basin--economic, land use, environmental:		
WS-6	Seek and act on opportunities to increase hydroelectric generation as part of water supply actions	Potential for hydropower benefits:		
WS-7	Seek and act on opportunities to increase flood protection as part of water supply actions	Potential flood protection benefits:		

Use of Goal, Objectives, Criteria Matrix

			Storage Alternative 1	
Water Rights, Legal and Contractual Requirements (WR)			Potential for adverse effect	Potential for beneficial effect
Goal WR: Protect existing water rights and work within existing Snake River system legal and contractual requirements				
Objectives:				
WR-1	Avoid adverse impact on existing surface or groundwater rights	Potential for adverse impacts on existing water rights (surface or groundwater):		
WR-2	Protect current operations and meet commitments of the Henrys Fork as part of the larger Snake River system	Potential for adverse impacts on ability to meet current contractual and other legal		
WR-3	Provide a process for municipalities in the Basin to obtain additional water rights to meet growth needs	Potential for providing municipalities the opportunity to obtain new water rights:		
?				
Natural Environment (NE)			Potential for adverse effect	Potential for beneficial effect
Goal NE: Protect and sustain natural resource values in all water supply development and management actions				
Objectives:				
NE-1	Protect and seek to enhance fish and wildlife resources			
NE-1.1	Seek opportunities to improve fish and wildlife habitat conditions	Potential for enhancement of fish and wildlife habitat:		
NE-1.2	Protect sustain wetland and riparian habitat values, with special emphasis on avoiding adverse impact on wetlands in the lower Henrys Fork	Potential for adverse impact on the lower Henrys Fork wetlands:		
		Potential for adverse impact on other wetlands and riparian habitat:		
NE-1.3	Minimize adverse impacts on fishery resources (including habitat, barriers to fish passage, etc.)	Potential for adverse impact on fishery resources (general):		
NE-1.4	Avoid actions that would push species into threatened or endangered status	Potential for adverse impact on sensitive species:		
NE-1.5	Avoid actions that would worsen conditions for species already designated as threatened or endangered	Potential for adverse impact on ESA-listed species:		
NE-2	Protect recreation and tourism values of Basin streams and other water bodies	Potential for adverse impact on Basin recreation and tourism resources:		
NE-3	Retain all stream reaches currently identified as eligible for Wild and Scenic River status in their current condition	Potential for impact on stream reaches eligible for Wild and Scenic status:		

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Wrap-Up

Next Three Meetings

Jan 12th 2011

- Potential Alternatives—Surface Storage:
  - Presentation of prior work with preliminary evaluation
  - Discussion of all options
- Potential Alternatives—Groundwater Storage:
  - Presentation of prior work with preliminary evaluation
  - Discussion of all options

Feb 15th 2011

- Potential Alternatives—Water Management:
  - Presentation of prior work with preliminary evaluation
  - Discussion of all options

Mar 15th 2011

- Comparative Evaluation of Alternatives
- Selection of Alternatives for Reconnaissance Study

Action Items & Adjourn

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