

HFF WaterSMART Applied Science Grant

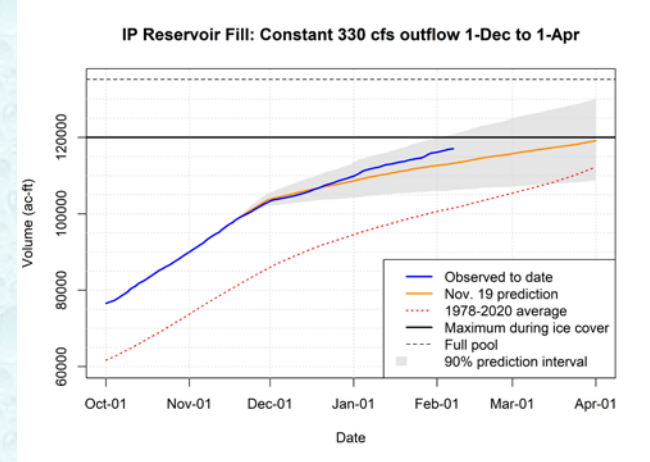
Rob Van Kirk, Henry's Fork Foundation

Henry's Fork Watershed Council, February 7, 2021



Outline

- WaterSMART applied science program
- Goal and objectives
- Timeline and budget
- Project team
- Stakeholder engagement



WaterSMART Applied Science Program

- WaterSMART (Sustain and Manage America's Resources for Tomorrow) in USBR and USGS
- USBR *"will continue to work cooperatively with states, tribes, and local entities as they plan for and implement actions to increase water supply through investments to modernize existing infrastructure and attention to local water conflicts"*
- Many different programs, e.g., small infrastructure, efficiency
- Applied Science is new; first RFP in 2019, 2nd RFP in 2021.
- *"funding to non-Federal entities for the development of tools and information to support water management for multiple uses"*

Goal and Objectives

- Improve water-management precision to
 - Meet irrigation demand
 - Maintain fisheries
 - Recover aquifer levels
- Objectives
 - Develop hydrologic models
 - Apply models to specific scenarios
 - Develop website for data and models
- Models
 - Lower HF groundwater-surface water
 - Teton Valley GW-SW
 - Water-management optimization
 - Automated water report
 - Seasonal predictions

Budget and Timeline

- \$561,000 total: \$273K federal, \$183K HFF, \$105K 3rd-party in-kind

	FY 2021	FY2022	FY2023
Lower HF model			
Teton Valley model			
Optimization model			
Predictive model			
Install stream gages (HF @ Parker, Teton @ Tetonia, Buffalo)			
Real-time streamflow live on website			
Real-time water report data live on website			
End-user model interface on website			
Stakeholder engagement			

Project Team

	Affiliation	Tasks
Heidi Blischke	Prof. geologist (ret.)	Teton Valley model
Matt Hively	HFF	Stream gage installation & rating
Darcy Janssen	HFF	Finances
Jamie Laatsch	HFF	Stakeholder engagement, outreach
Christina Morrisett	Utah State Univ./HFF	Lower HF and optimization models
Melissa Muradian	HFF	Lead programmer, website, data mgmt.
Curtis Nelson	BYUI	Model implementation
Amber Roseberry	HFF	Coding, GIS, web development, stream gages
Rob Van Kirk	HFF	Project director

Stakeholder Engagement

- Progress reports (various media)
- Specific input (formal processes)
 - Data contributions
 - Desired data availability & formats
 - Website user interfaces
 - End-user model capabilities
 - Modeling scenarios
- Forums: HFWC and Teton Water Users Association
- Begin soliciting input this fall

Questions?

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