

ESPA Managed Recharge Update

Water Supply Committee Meeting

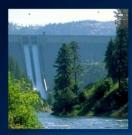
Wesley Hipke January 15, 2016

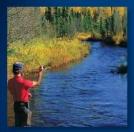




*Preliminary Data











IWRB ESPA Managed Recharge – Lower Valley

Recharge Summary

Recharge Right in Priority:

• Recharge Rate (as of Jan 12th) =

Total Recharged (as of Jan 12th) =

Oct 23rd – present

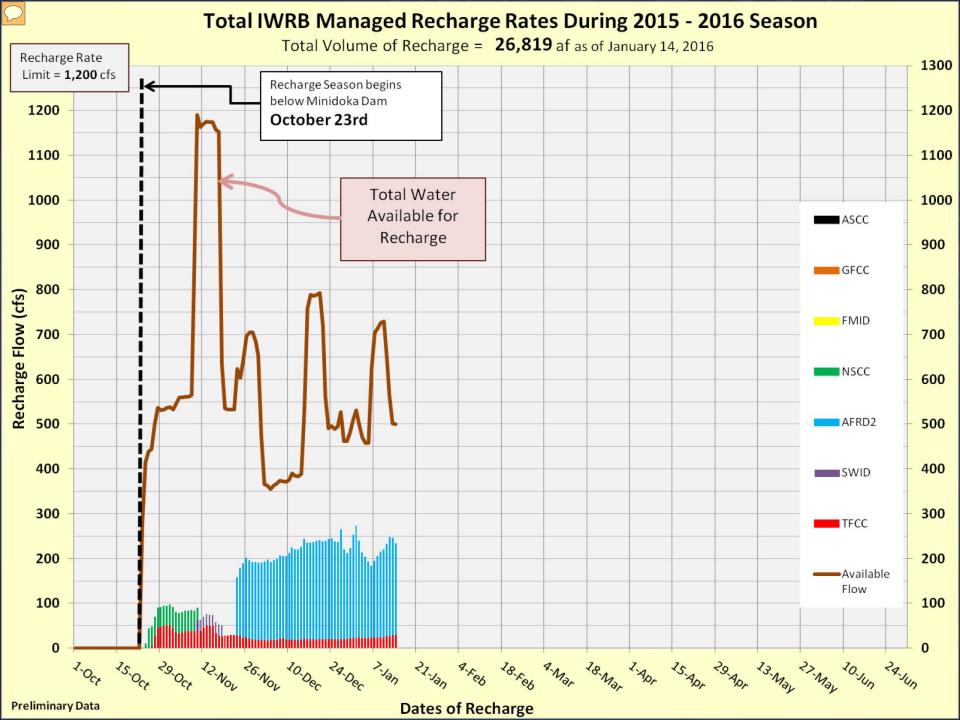
247 cfs

25,871 af *





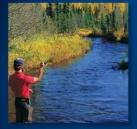
















ESPA Managed Recharge Summary

Oct. 23rd, 2015 – Jan. 12th, 2016

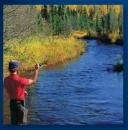
ESPA Area	Canal System	5-Year Retention Time (%)	Mean Recharge Rate (cfs)	Days Recharged	Volume Recharged (Acre-feet)
Lower Valley	American Falls Reservoir	225	405	5 2	20 520
	District No. 2 (Milner-Gooding Canal)	~36	195	53	20,539
	North Side Canal	~37	42	18	1,482
	Company				
	Southwest Irrigation District	~54	25	9	1,339
	Twin Falls Canal Company	~45	27	81	4,352
	26,819				

^{*}Preliminary Data













ESPA Managed Recharge Expansion Projects

Lower Valley

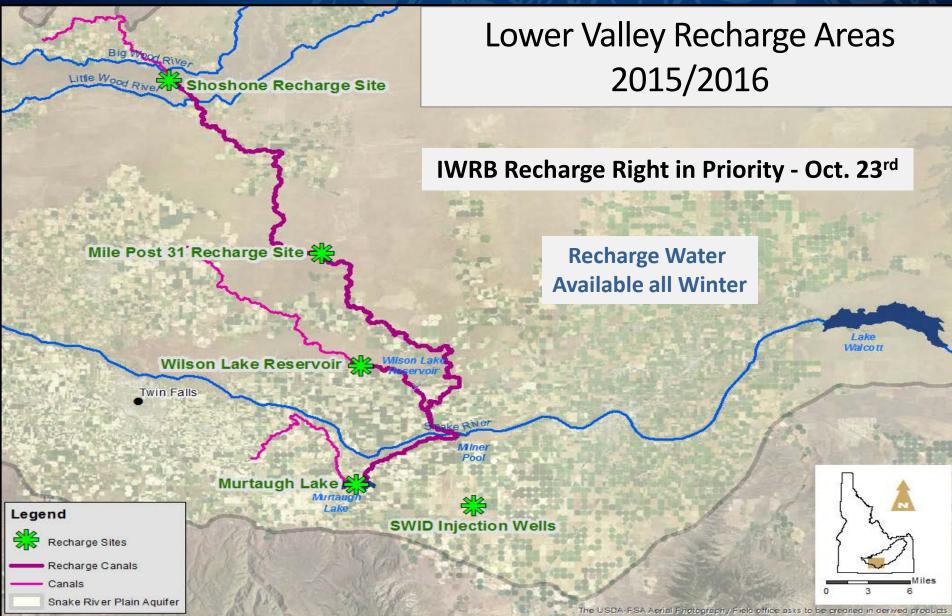
- Infrastructure improvements for winter-time deliveries
- Maximize existing recharge facilities
- Development of new recharge facilities

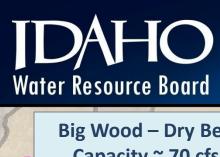
Upper Valley

- Infrastructure improvements to facilitate highly variable availability of recharge timing and volumes
- Maximize/Improve existing recharge facilities
- Development of new recharge facilities

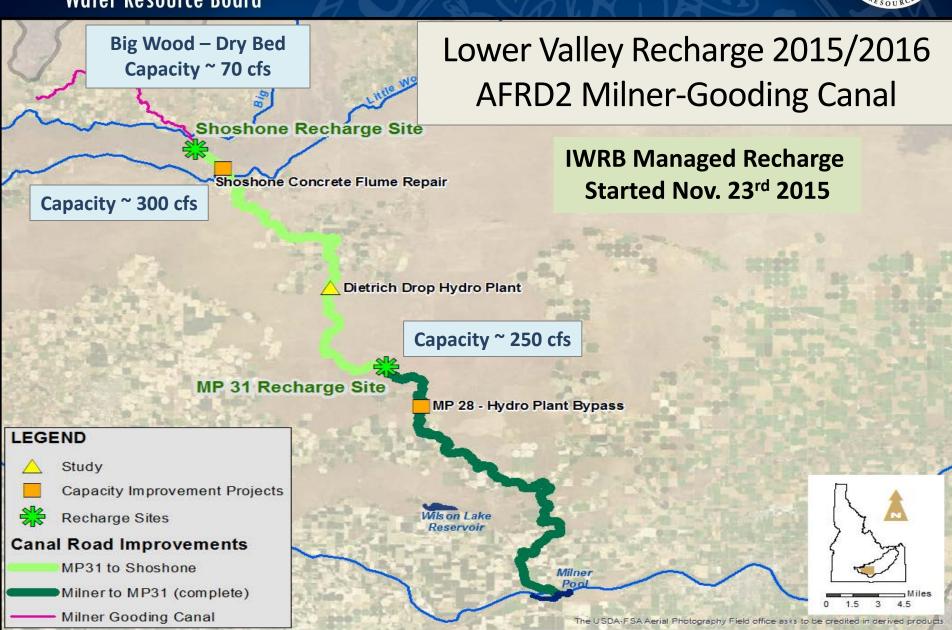






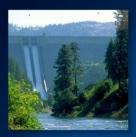


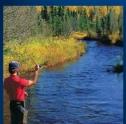
















AFRD2 Managed Recharge Expansion Projects

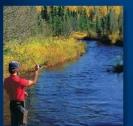
• MP 28 Hydro Plant Bypass - Completed Nov 20th















AFRD2 Managed Recharge Expansion Projects

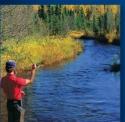
• MP 31 Recharge Site















AFRD2 Managed Recharge Expansion Projects

Concrete Flume







Wilson Lake Hydro Plant

North Side Canal Potential Improvements

Wilson Lake Reservoir

Capacity ~ 130 cfs Ch2M Study 2015 Hazelton B Hydro Plant

> Hazelton A Hydro Plant

C Canal

IWRB Managed Recharge Oct. 23rd to Nov. 10th

Avg. 42 cfs

Resume Recharge ~ Feb. 1st

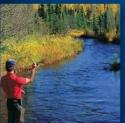
By-Pass Hydro Plant

> Milner Pool







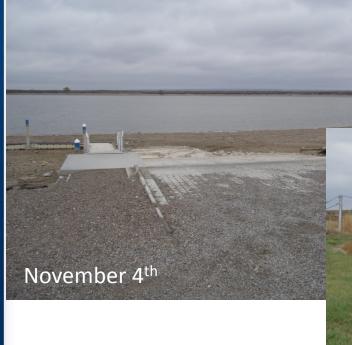






NSCC Managed Recharge Projects

North Side Canal / Wilson Lake







Recharge Sites

Twin Falls Main Canal

win Falls Main Canal - Recharge

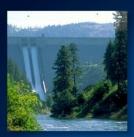


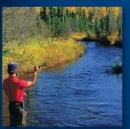
Lower Valley Recharge 2015/2016 Twin Falls Canal **IWRB Managed Recharge** TFCC Point Spill Gate Started Oct. 26th Milner Milner Pool Radial Gates Weir & Stilling Well Capacity 60 to 20 cfs Murtaugh Lake Radial Gate Murtaugh Lake Murtaugh Lake Legend Capacity Improvement Projects

The USDA-FSA Aerial Photography Field office asks to be credited in derived products













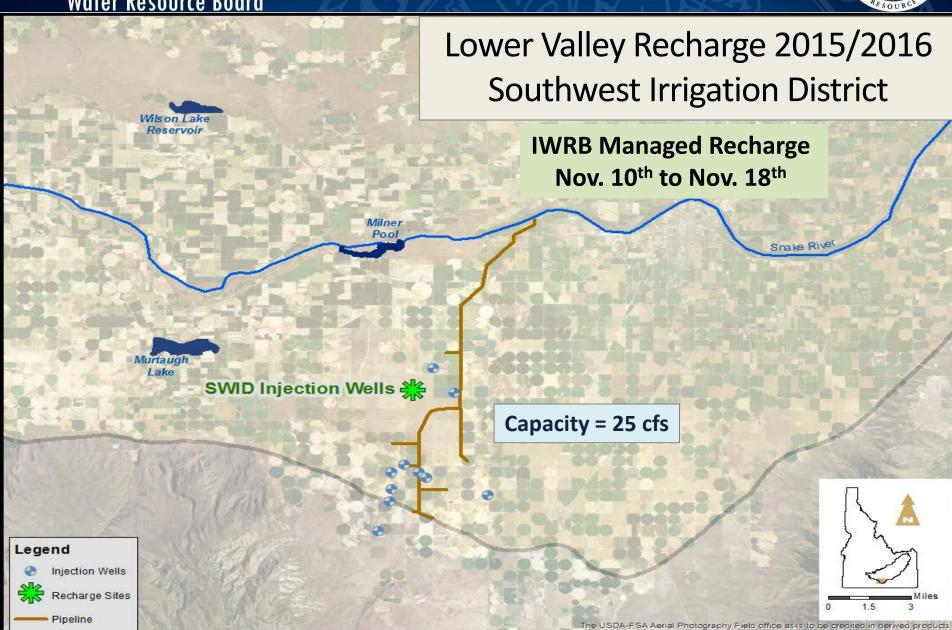
TFCC Managed Recharge Expansion Projects

• Twin Falls Canal / Murtuagh Lake



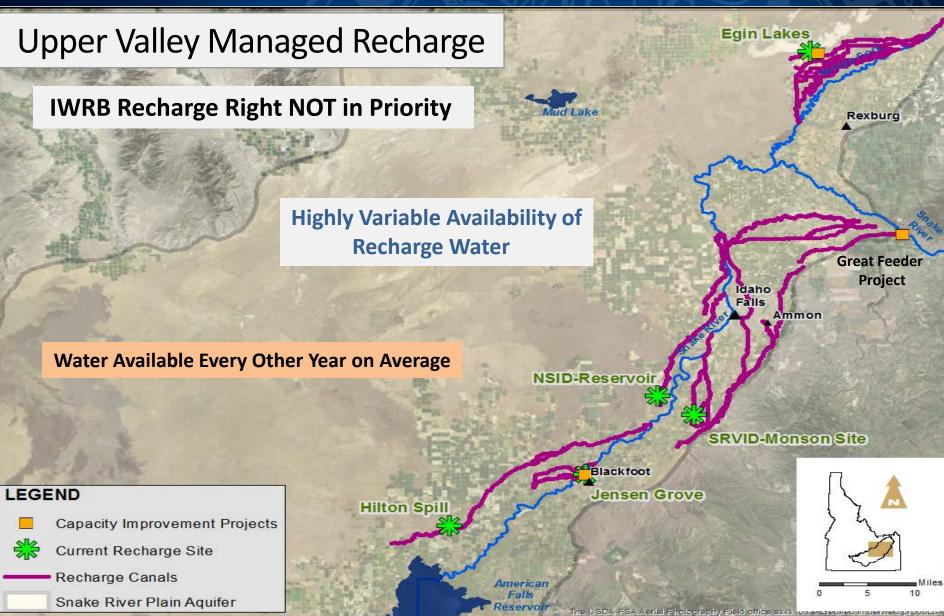






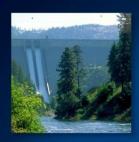


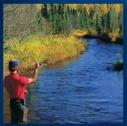
















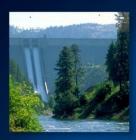
Egin Lakes Managed Recharge Project

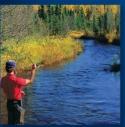
New Recharge Canal















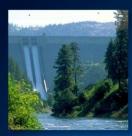
Great Feeder Improvement Project

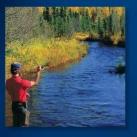
New Recharge Canal















ESPA Managed Recharge Capacity

Lower Valley

Winter Time Capacity

190 cf
270 cf

• 2016/2017 570 cfs

Upper Valley

Off-Canal Capacity

• 2014/2015	200 cfs
• 2015/2016	400 cfs
• 2016/2017	500 cfs







