



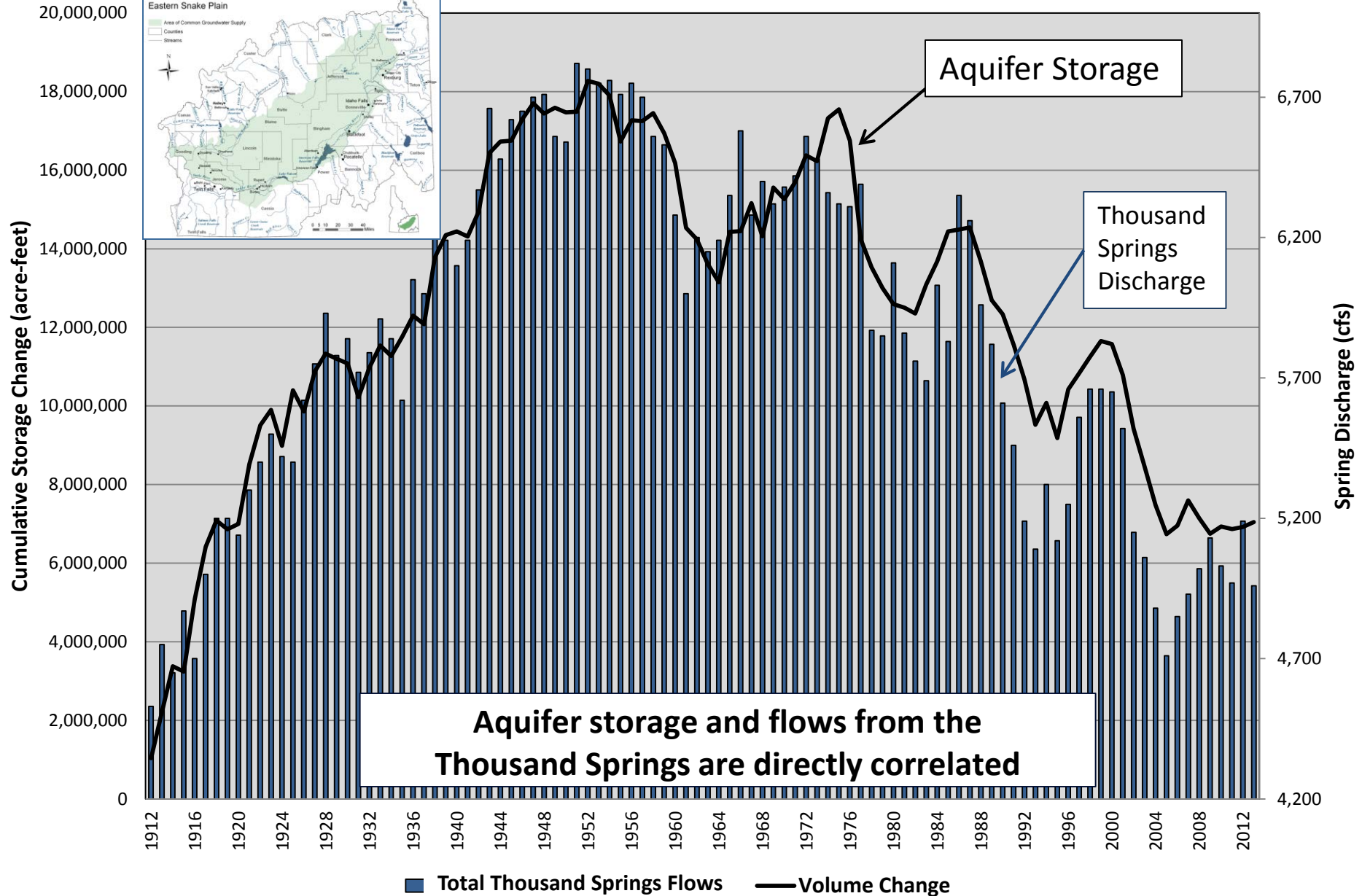
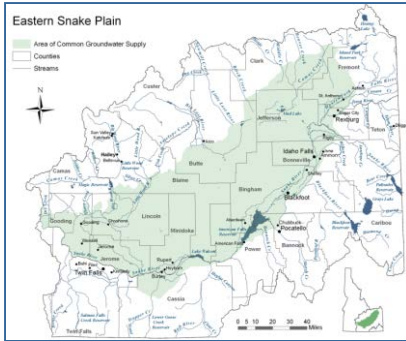
ESPA Managed Recharge Update

Water Supply Committee Meeting

Wesley Hipke
April 10, 2015



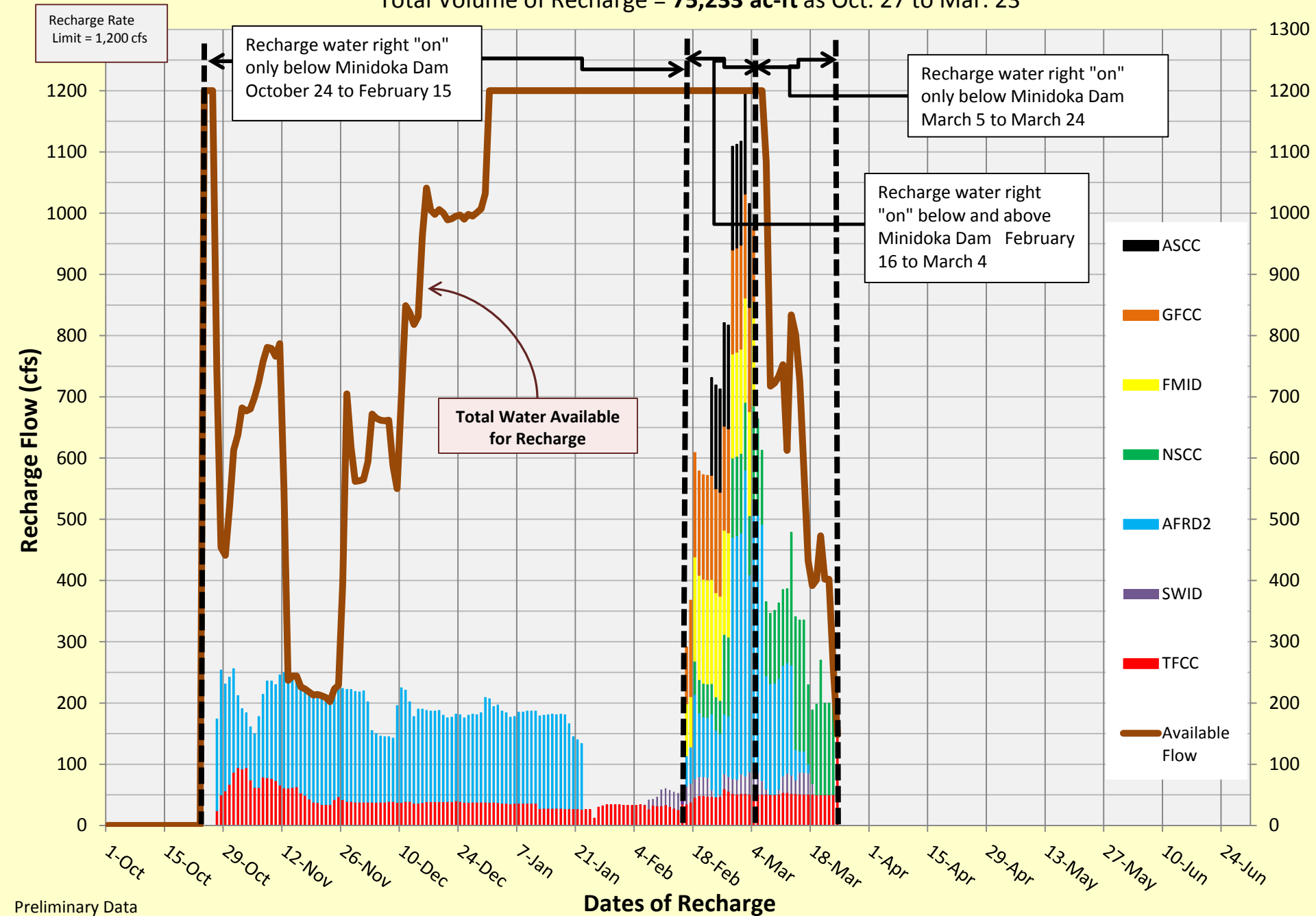
Cumulative Volume Change of Water Stored Within ESPA and Thousand Springs Discharge

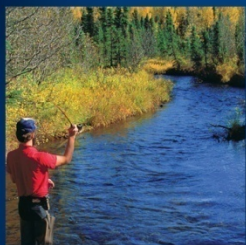




Total Water Board Recharge Rates During 2014 - 2015 Season

Total Volume of Recharge = 75,233 ac-ft as Oct. 27 to Mar. 23





ESPA Managed Recharge Summary

Oct 27th, 2014 to March 23rd, 2015

ESPA Area	Canal System	Median Recharge Rate (cfs)	Days Recharged	Volume Recharged (Acre-feet)
Upper Valley	Aberdeen-Springfield Canal Company	169	10	3,322
	Great Feeder Canal Company	170	17	5,454
	Fremont Madison Irrigation District	170	17	5,389
	Upper Valley Total			14,165
Lower Valley	American Falls Reservoir District No. 2 (Milner-Gooding Canal)	153	118	37,907
	Northside Canal Company	127	34	8,580
	Southwest Irrigation District	25	47	1,928
	Twin Falls Canal Company	39	148	12,653
	Lower Valley Total			61,068
TOTAL				75,233
Preliminary Data				

Preliminary Data

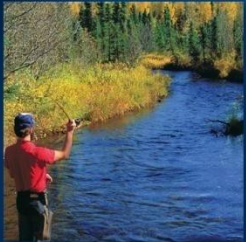
ESPA Recharge Summary – Upper Valley

• Recharge Summary

- Recharge Right in Priority: Feb 16 – Mar 4
- Median Recharge Rate = 509 cfs
- Total Recharged = 14,165 af *

• Complications

- Limited by water right at Minidoka – 2,700 cfs
- Capacity ~ 1,500 cfs
- Surplus Water Operations
 - Limited Duration (17 DAYS)
 - Limited Volume
 - Palisades winter water contracts – USBR Waivers



ESPA Recharge Summary – Lower Valley

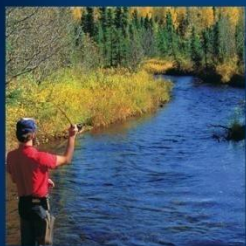
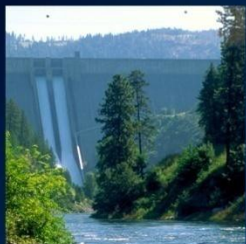
• Recharge Summary

- Recharge Right in Priority: Oct 24 – Mar 23
- Median Recharge Rate = 348 cfs
- Total Recharged (as of Mar 23rd) = 61,068 af *

• Complications

- Limited Capacity
 - Winter Season Capacity = ~200 cfs
 - Spring Season Capacity = ~500 cfs
 - Irrigation Season Capacity = ~450 cfs

*Preliminary Data



ESPA Managed Recharge 2014-2015

IWRB Recharge Water Right (1980 priority) = ~ 1,200 cfs

Lower Valley

Upper Valley

Available Water

~260,000 af

~16,800 af

% Available Water Recharged

23%

84%

Recharge Capacity

~200-500 cfs

~1,500 cfs

Retention in Aquifer (5yr)

avg ~45%

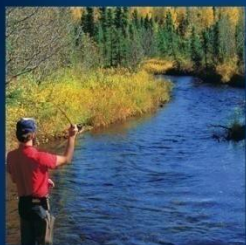
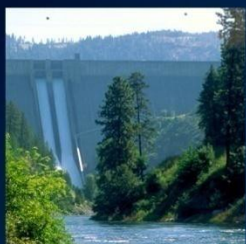
avg ~24%



NSCC - Wilson Lake. Infiltration test, Mar. 15th, 2015



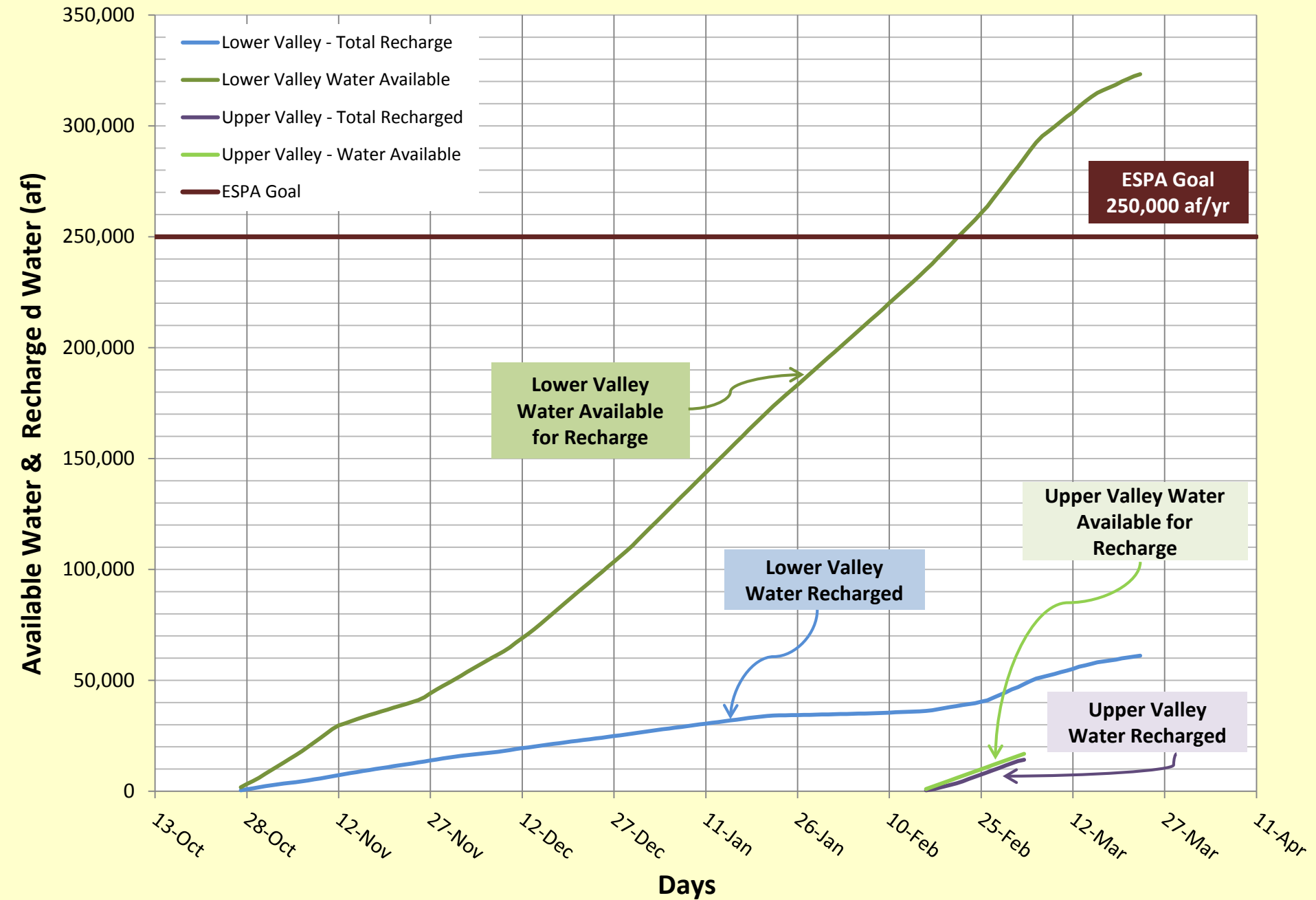
ASCC - Main Headgate, Feb. 26th, 2015





ESPA Managed Recharge - 2014 - 2015 Season

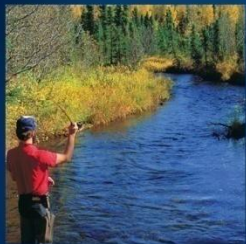
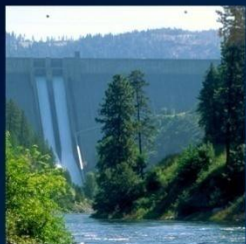
(Volumes from Oct. 27 to March 24)

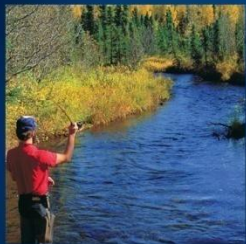
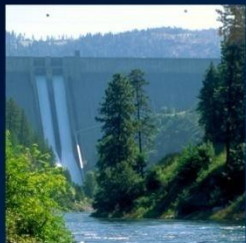
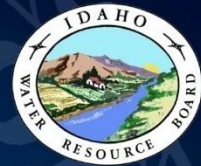


ESPA Managed Recharge 2014-2015

Fall - Spring	Below American Falls	Above American Falls	Total
2009-2010	18,981	60,912	79,893
2010-2011	25,349	36,239	61,587
2011-2012	91,112	74,335	165,446
2012-2013	21,129	0	21,129
2013-2014	10,585	0	10,585
Average	33,431	34,297	67,728
2014 – 2015*	61,068	14,165	75,233

* Preliminary Data





Questions



Mile Post 31 recharge basin on April 8th, 2013.