

ESPA
Comprehensive Aquifer Management Plan
Advisory Committee

***IDWR Update
for the
Committee***

Dave Tuthill

**Director
Idaho Department of Water Resources**

October 25, 2007



Topics

- Present Status
- Surface Storage Opportunities
- Aquifer Study
- 2008 Warning Letter
- Hydropower License Update

The Future Is Drying Up



Simon Norfolk/NB Pictures, for The New York Times

Draining The 100-foot-high bathtub ring left by the dwindling waters of Lake Mead, behind Hoover Dam.

Water Planning in Idaho

- **20th Century**
 - » Irrigation Storage
 - » Hydropower
 - » Flood Control
- **21st Century Needs:**
 - » 20th Century Needs
 - » Endangered Species Requirements
 - » Increased Urbanization
 - » Ground water mitigation
 - » Climate change

On very rare occasions...

...the planets are aligned

- Engagement of all branches of Govt
 - Legislative
 - Judicial
 - Executive
 - Idaho Water Resource Board
 - Local Government
- Engagement of water users
 - Growers
 - Environmentalists
- Engagement of the public
- Drought
- Growing recognition of climate change

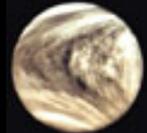
The Sun



Mercury



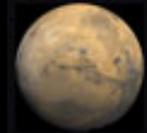
Venus



Earth



Mars



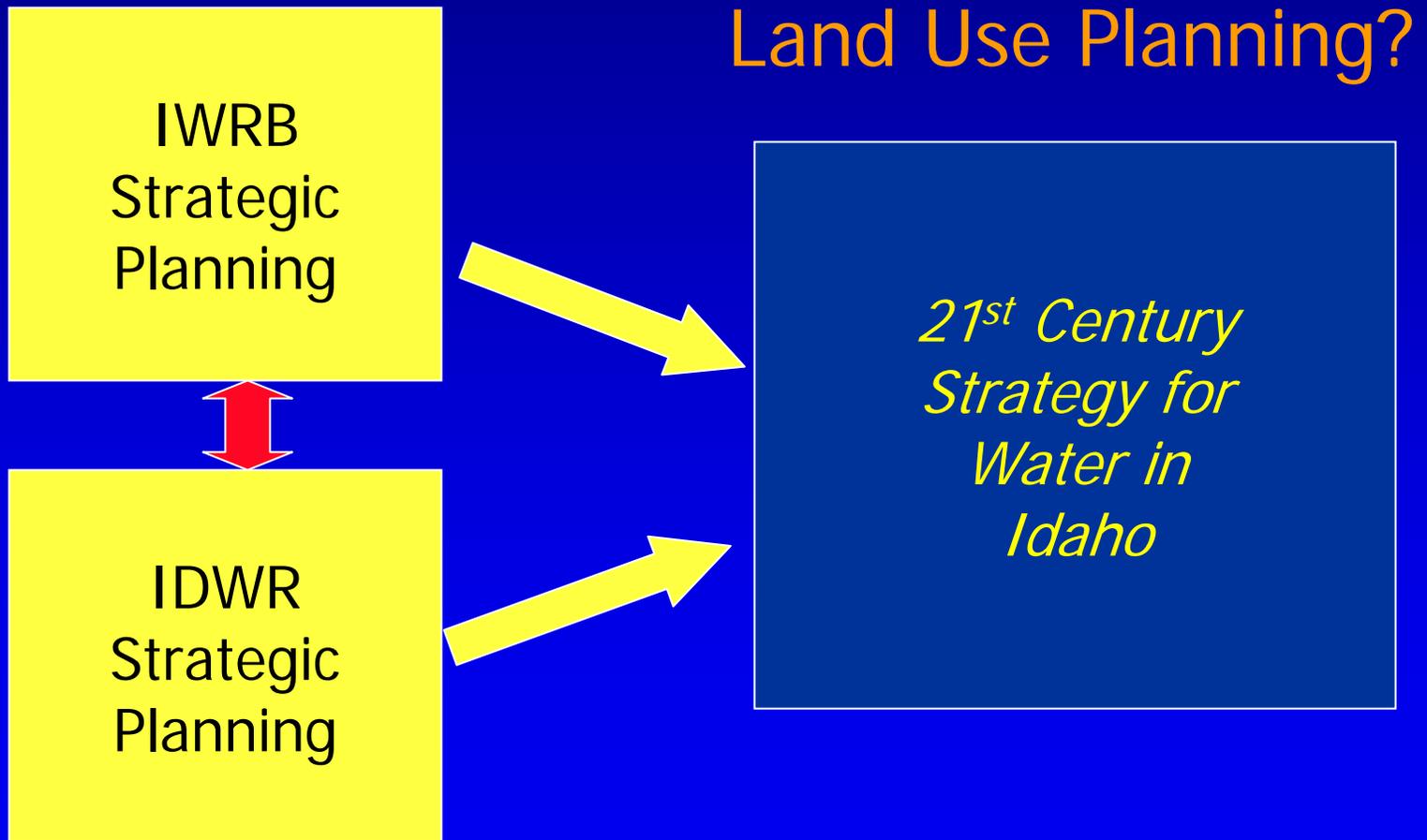
Jupiter



Saturn



Strategic Planning



Surface Water Storage Opportunities



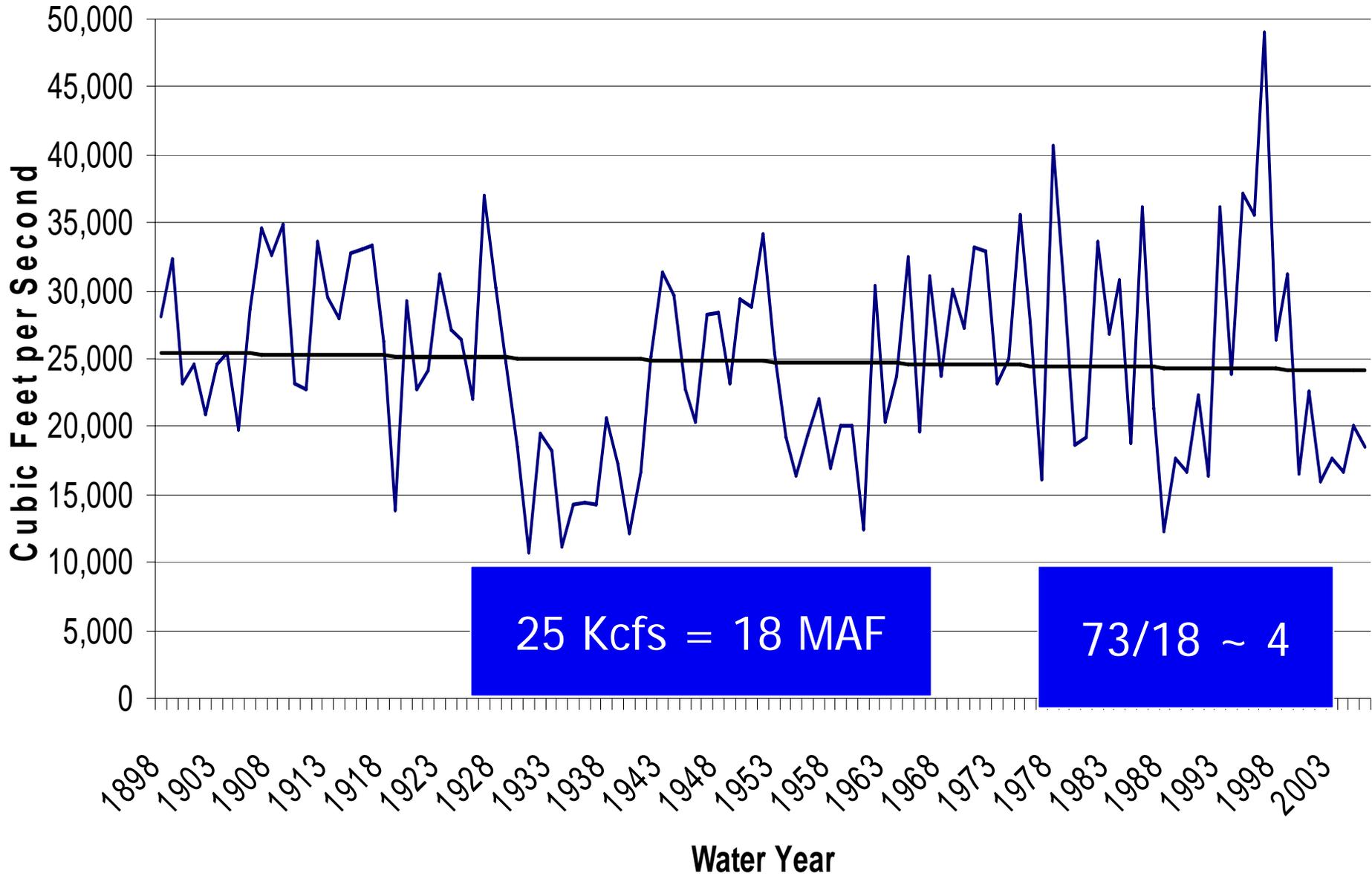
MISSOURI RIVER BASIN

Upper Missouri Storage

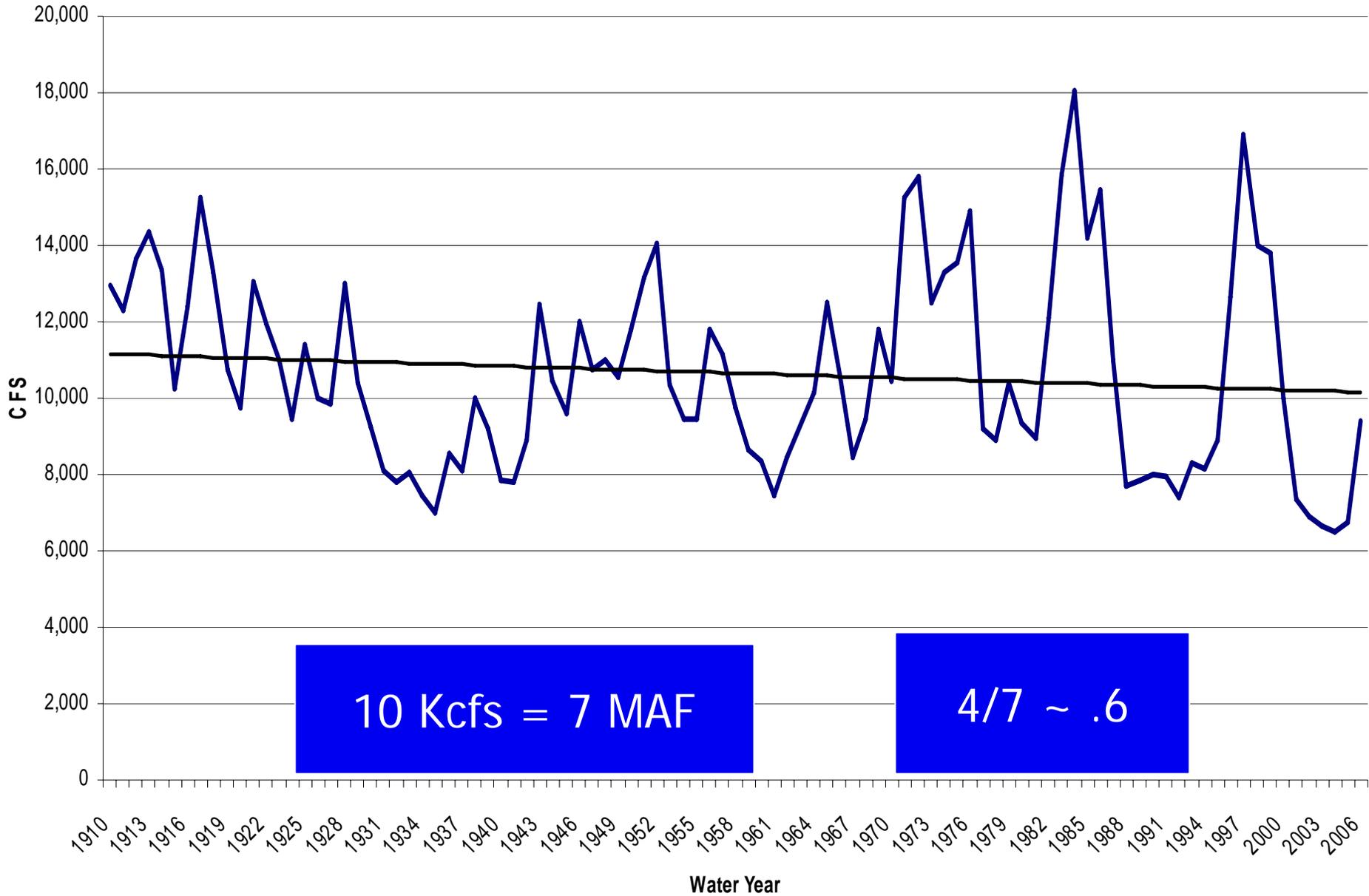
(1000's of acre-feet)

Dam	Permanent	Carryover Multiple Use	Annual Flood Control and Multiple Use	Exclusive Flood Control	Total Storage
Fort Peck	4,211	10,785	2,717	975	18,688
Garrison	4,980	13,130	4,222	1,489	23,821
Oahe	5,373	13,461	3,201	1,102	23,137
Big Bend	1,682	0	117	60	1,859
Fort Randall	1,517	1,607	1,309	985	5,418
Gavins Point	321	0	90	59	470
Totals	18,084	38,983	11,656	4,670	73,393

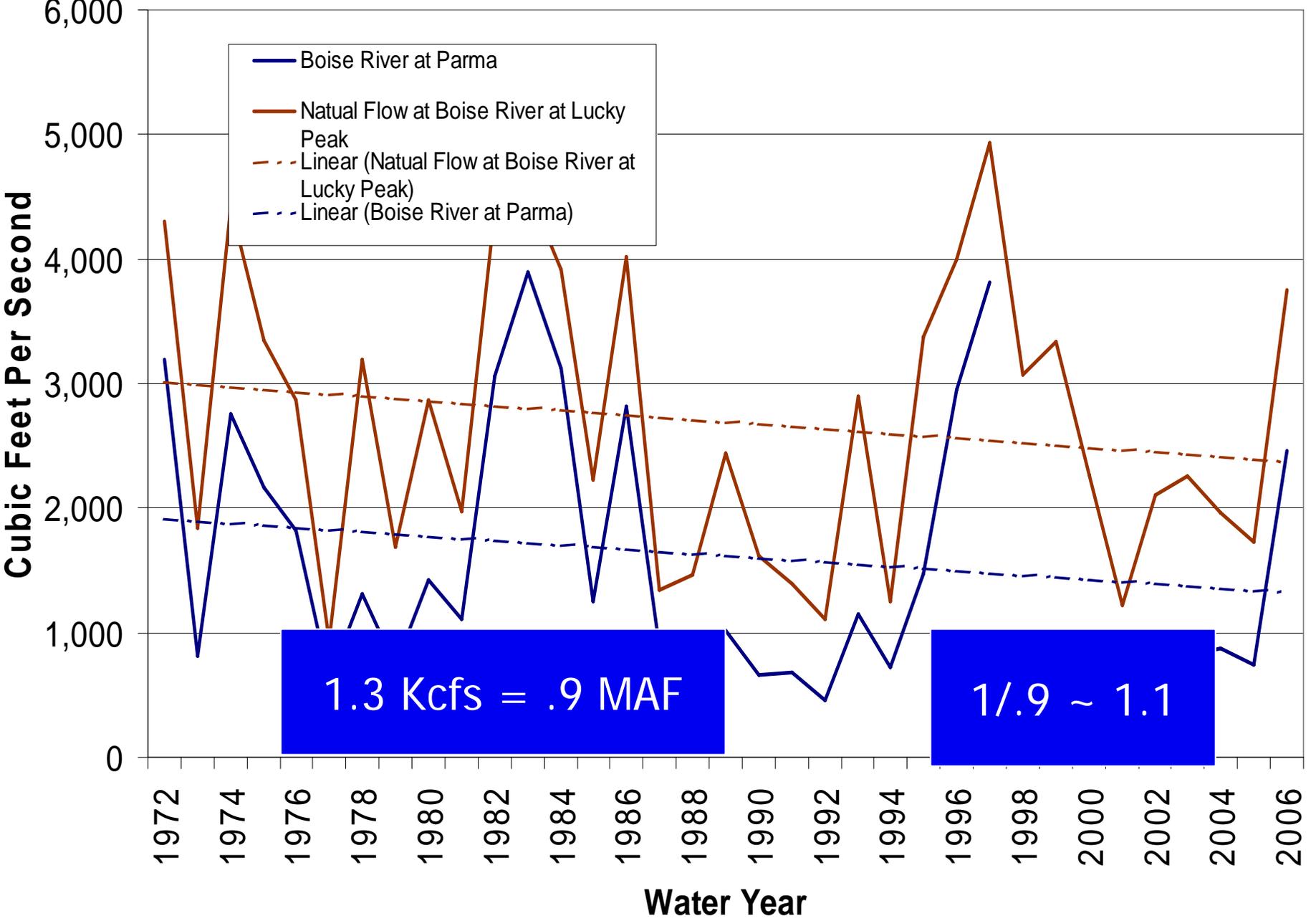
Annual Flows of the Missouri River at Sioux Falls



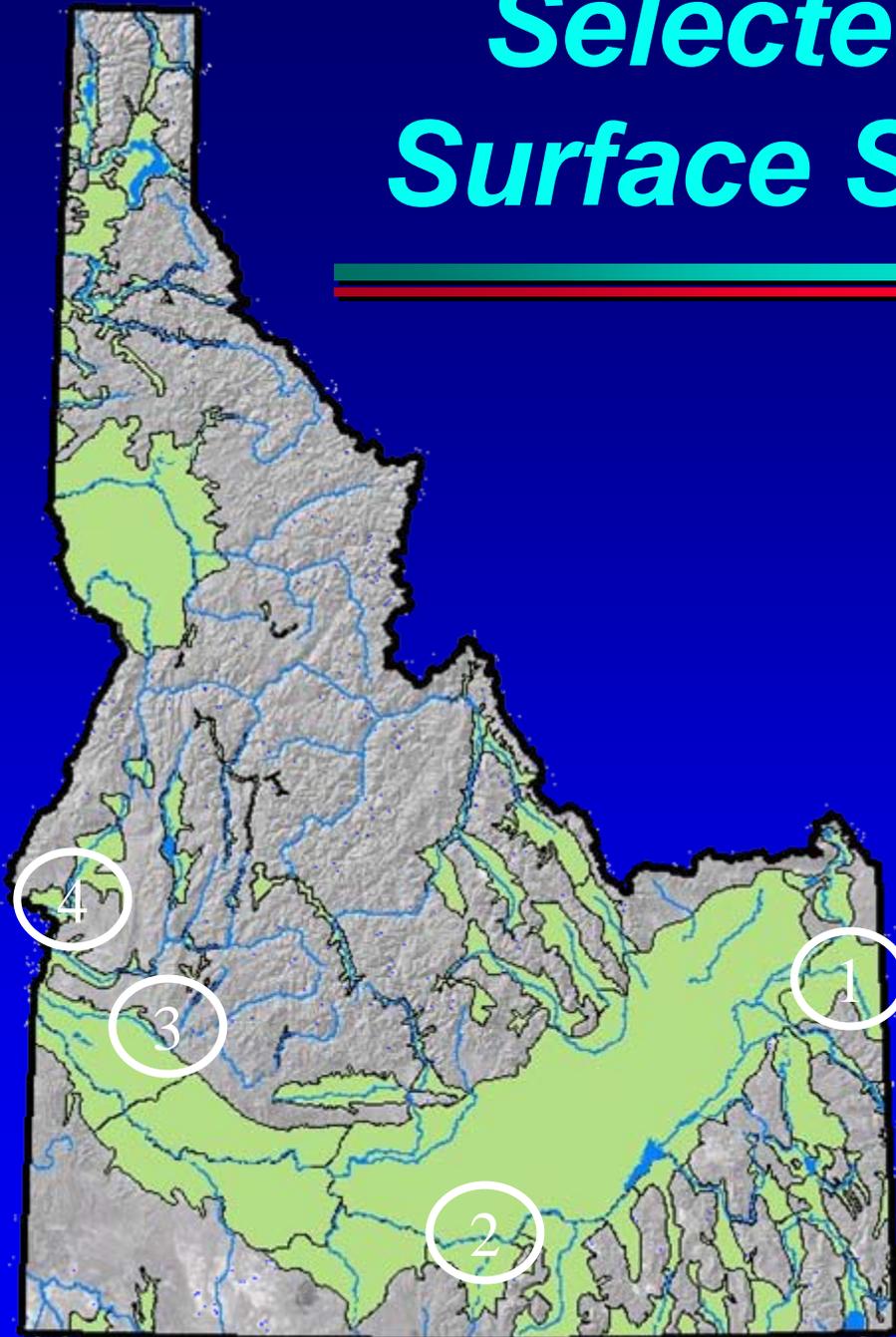
Snake River at King Hill



Boise River at Parma and Natural Flow from Luck Peak



Selected Potential Surface Storage Sites



1. Teton Dam
2. Minidoka Dam
3. Twin Springs Dam
4. Galloway Dam

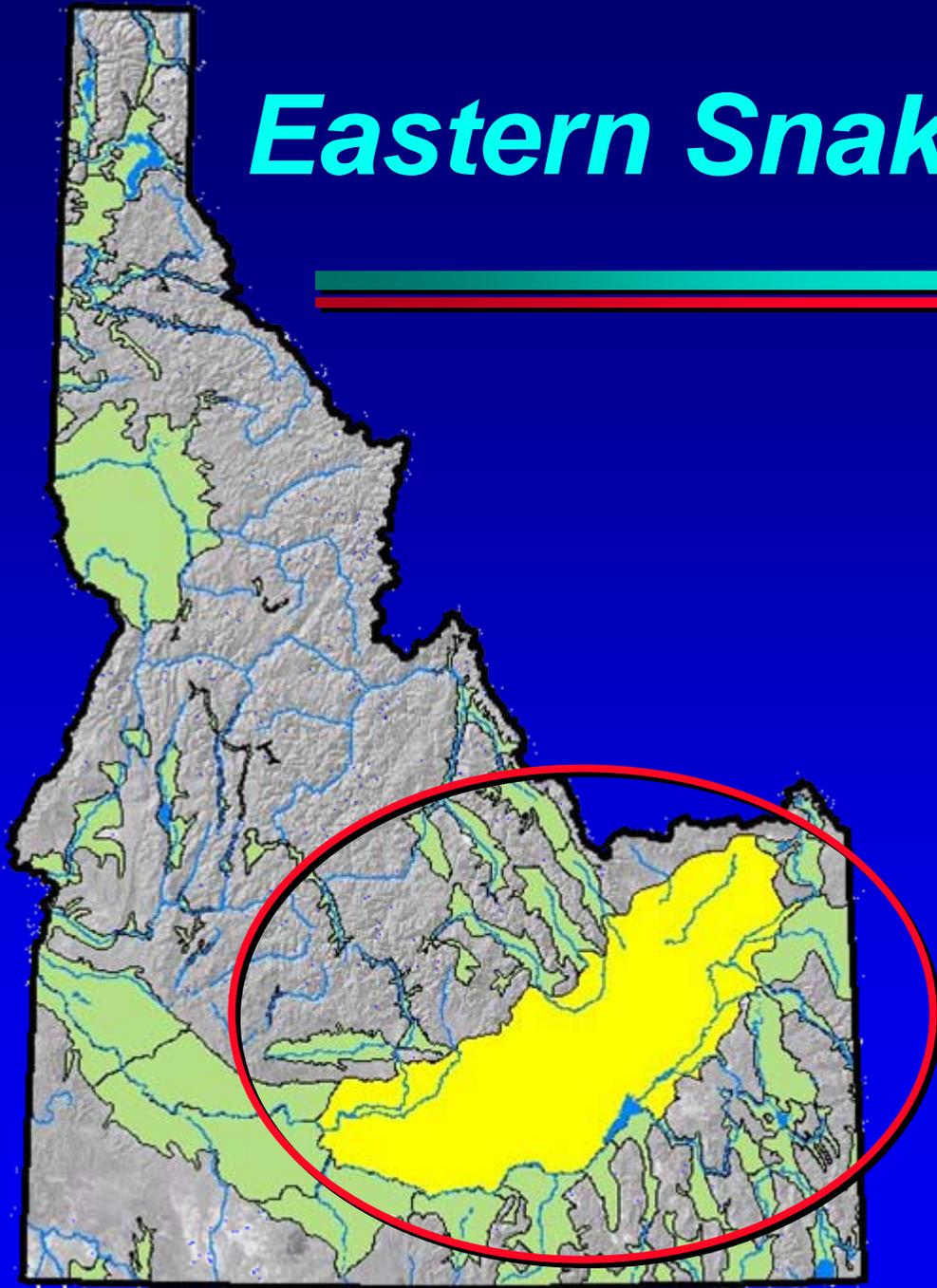
Idaho Aquifers



Aquifer Study Priorities

Priority	Basin Name
1	ESPA
2	Lower Boise/Treasure Valley
3	Spokane Valley-Rathdrum Prairie
4	Moscow-Pullman
5	Big Wood
6	Mountain Home
7	Bear
8	Teton
9	Big Lost
10	Portneuf
11	Blackfoot

Eastern Snake River Plain



Summary of Projected Costs

Basin Name	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Totals
ESPA	\$0.75	\$0.78	\$0.70	\$0.68	\$0.68	\$0.70	\$0.75	\$0.78	\$0.80	\$0.83	\$7.45
Lower Boise/Treasure Valley	\$1.29	\$1.29	\$1.29	\$1.29							\$5.16
Spokane Valley-Rathdrum Prairie	\$0.72	\$0.72	\$0.72	\$0.72							\$2.88
Moscow-Pullman			\$0.76	\$0.76	\$0.76						\$2.28
Big Wood			\$0.68	\$0.68	\$0.68						\$2.04
Mountain Home					\$0.62	\$0.62	\$0.62				\$1.86
Bear					\$0.59	\$0.59	\$0.59				\$1.77
Teton							\$0.63	\$0.63			\$1.26
Big Lost							\$0.93	\$0.93			\$1.86
Portneuf									\$0.91	\$0.91	\$1.82
Blackfoot									\$0.76	\$0.76	\$1.52
Totals	\$2.76	\$2.79	\$4.15	\$4.13	\$3.33	\$1.91	\$3.52	\$2.34	\$2.47	\$2.50	\$29.90

Units are Millions of Dollars

Idaho Department of Water Resources

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Need More Information?

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Email: IDWR_PublicInformation



The 'Rooster Tail' flies marking Lucky Peak Dam's 50th Anniversary

Major Issues

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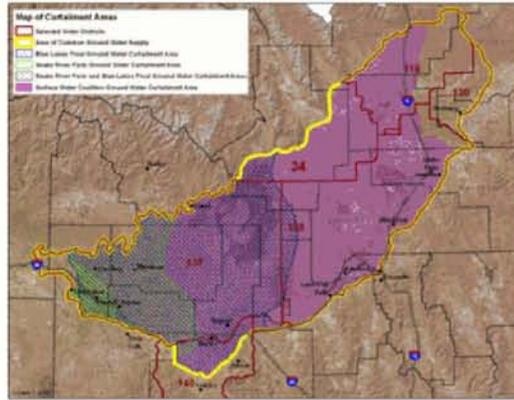
Need More Information?

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2008 Potential Curtailment Information Page

Map of 2008 Potential Curtailment Areas

(click image to enlarge in PDF format)



Related Information:

Map of Eastern Snake River Plain Water Delivery Organizations

(click image to enlarge in PDF format)



Priority Calls For Delivery Of Water & Information On Water Rights

[Legal Documents Related To The Thousand Springs Area Call Including The Most Recent 2007 Filings](#)

[Legal Documents Related To The Surface Water Coalition Call Including The Most Recent 2007 Filings](#)

View 2008 Potential Curtailment Related Documents:

[View list of Potential Curtailment Warning Letter Recipients-Blue Lakes and Snake River Farms Delivery Calls - October 22, 2007](#)

[View list of Potential Curtailment Warning Letter Recipients-Surface Water Coalition Delivery Call - October 22, 2007](#)

[View Letter Re: Notice of Potential Curtailment of Ground Water Rights in the Eastern](#)

Hydropower Water Right

01-7011

- **Twin Falls Canal Company and North Side Canal Company are permit holders**
 - » **Application filed March 30, 1977**
 - » **Subordination condition not added to the original permit, which was issued on June 29, 1977**
 - » **Extensions of time requested in 1982, 1987, 1990 and 1992**
 - » **Extension approval in 1987 contained the following language:**

Subordination Language

- The rights for use of water acquired under this permit shall be junior and subordinate to all other rights for the consumptive beneficial use of water, other than hydropower **and groundwater recharge** within the Snake River Basin of the state of Idaho that are initiated later-in-time than the priority of this permit and shall not give rise to any right or claim against any future rights for the consumptive beneficial use of water, other than hydropower **or ground water recharge** within the Snake River Basin of the state of Idaho initiated later in time than the priority of this permit.

Subsequent Processing

- **October 29, 1993 – Permit holders filed Proof of Beneficial Use**
- **November 1, 1993 – Permit holders filed a Beneficial Use Field Report showing use of 5714.7 cfs, thus completing permit holder submittal requirements**
- **September 5, 2007 – IDWR issues “Notice of Intent to Issue License”**
- **September 28, 2007 – “Petition for Preemptory Writ of Mandate” filed by permit holders**
- **October 10, 2007 – “Order Denying Petition for Alternative Writ of Mandate” issued by 5th Judicial Court**
- **October 10, 2007 – end of response period for Notice**
- **October 19, 2007 – Acceptance of Service by IDWR**

Importance to CAMP

- **Availability of water for recharge upstream from Milner Dam is greatly impacted by this condition**
- **Example: During the winter of 2006-2007, hundreds of thousands of acre feet flowed past Milner – none of this water was available for recharge under the existing condition**
- **Resolution of this issue will add certainty to the availability of flows for recharge**

