

# BEAR RIVER COMMISSION

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(801) 524-6320 (fax)

## MINUTES

### BEAR RIVER COMMISSION ANNUAL MEETING ONE-HUNDRED TENTH COMMISSION MEETING April 17, 2007

#### COMMISSION MEMBERS

##### Chair

Dee C. Hansen

##### Idaho Members

David R. Tuthill  
Rodney Wallentine  
Marcus J. Gibbs

##### Utah Members

Dennis J. Strong  
Blair Francis  
Charles W. Holmgren

##### Wyoming Members

Patrick T. Tyrrell  
Sam Lowham  
Gordon Thornock

#### ENGINEER-MANAGER

Jack A. Barnett  
Suite 101  
106 West 500 South  
Bountiful, UT 84010

The annual meeting of the Bear River Commission was called to order by Chairman Dee Hansen at 1:05 p.m. on Tuesday, April 17, 2007 at the Utah Department of Natural Resources building in Salt Lake City, Utah. This was the one-hundred and tenth meeting of the Commission. Hansen welcomed everyone to the meeting and noted that Marc Gibbs was attending in behalf of Commissioner Dean Mathews and Gary Spackman was attending for Dave Tuthill. Dean Mathews is not going to seek reappointment. Dave Tuthill is the Interim Director of the Idaho Water Resources Department and was unable to attend the meeting. It was further noted that Marc Gibbs has made application to become a Bear River Commissioner. Hansen then asked all in the room to introduce themselves. An attendance roster is attached as Appendix A.

The Commission then reviewed and approved the proposed agenda for the meeting. A copy of the approved agenda is attached as Appendix B. The proposed minutes of the November 21, 2006 Commission meeting were then discussed. Commissioner Charles Holmgren indicated he had some confusion about a reference to USU deliverables on page two, third paragraph. It was determined that Engineer-Manager Jack Barnett would write an additional sentence of clarification. It was moved that the minutes be approved with Barnett's insertion of a clarification. The motion was seconded and carried.

Chairman Hansen moved to agenda item III, the report of the Secretary-Treasurer. Commissioner Dennis Strong discussed the proposed budget and indicated there is a modification to the proposed FY 2008 and proposed FY 2009 budgets to include \$6,000 for a web page/data. He then asked Randy Staker to review the financial status of the Commission. Staker distributed and reviewed an income and expenditure sheet and a budget sheet. A copy of these sheets is attached to these minutes as Appendix C. There is a proposed increase of \$5,000 in the state assessments for FY 2009. The proposed stream gaging amount is \$56,550 for FY 2008 and \$59,350 for FY 2009. Staker indicated the cash balance as of April 10, 2007 is \$107,677.02. This is high because the stream gaging bill was paid twice during the last fiscal year and so this bill is not being paid this fiscal year.

**Bear River Commission**

**April 17, 2007**

**Page 2**

Staker reported that close to \$3,500 has been earned in interest on the State Treasurer's account. Commissioner Pat Tyrrell indicated the budget as proposed reflects the recommendation of the Management Committee that the Commission absorb the cost to keep the Stonefly website maintained. The Management Committee felt this was the most reasonable approach to handle this issue given the value of the website and the posting of real time data. Commissioner Tyrrell also requested that the format of the budget sheet be changed to break out the income and expense sections more clearly. There was a motion to approve the report of the Secretary-Treasurer. The motion was seconded and carried. There was then a motion made to approve the proposed budget for FY 2007-2008 with the addition of \$6,000 to maintain the Stonefly website. The motion was seconded and carried.

Chairman Hansen then moved to agenda item IV, the election of officers. Commissioner Charles Holmgren was thanked for his service as Vice Chairman. Gary Spackman nominated Commissioner Rodney Wallentine as the Vice Chairman. Wallentine was elected as Vice Chairman by acclamation. Commissioner Dennis Strong was nominated to continue as the Secretary-Treasurer. It was moved that nominations cease and the motion was seconded and carried. Strong was then reelected as the Secretary-Treasurer by acclamation. It was noted that Rodney Wallentine would complete a signature card so that he could sign Commission checks.

The Commission moved to agenda item V, a report on the snow pack by Ray Wilson. Wilson used a Power Point presentation to summarize the water supply outlook. A copy of his presentation is attached to these minutes as Appendix D. Wilson pointed out that reservoir storage is 42% of capacity. The projection through June of 2007 is that a drought will develop. Streamflow forecasts are far below average flows basinwide.

Chairman Hansen then asked Connely Baldwin to give the PacifiCorp report under agenda item VI. Baldwin used a Power Point presentation for his report and a copy of his presentation is attached to these minutes as Appendix E. Baldwin indicated the irrigation storage allocation from Bear Lake is dependent on the Bear Lake elevation in the spring. The current elevation of Bear Lake is 5912.22. The estimated spring maximum elevation of Bear Lake is 5912.6 feet. The estimated irrigation allocation is 218,000 acre-feet.

The Commission then moved to agenda item VII, a report on the Bear River Water Users Association (BRWUA) by Carly Burton. Burton distributed a handout and briefly summarized the activities of the Bear River Water Users Association. A copy of the handout is attached to these minutes as Appendix F. Burton reported on the data loggers and then indicated the BRWUA met on April 3. In conclusion, Burton commented on the upcoming 2007 irrigation season.

Chairman Hansen turned the time to Walt Baker for the report of the Water Quality Committee under agenda item VIII. Baker reported that the Water Quality Committee met on Monday, April 16, 2007. Representatives of Idaho, Utah and Wyoming were in attendance. The committee received a status report on the EPA grant and it was noted there will be a one-year extension of the EPA grant. The Utah State University (USU) deliverables are to be completed by June of 2008. A pollution trading workshop will be held on July 19, 2007. There was a discussion of the Watershed Information System (WIS) and how it will continue following the completion of the grant effort. USU presented to the Water Quality Committee a proposal on this subject.

Baker then reported that the tri-state water quality monitoring effort continues. There is an internal grant at USU for additional monitoring work at Mud Lake. The focus will be nutrients and wetlands issues. With regard to TMDLs, there is a late 2007 submission date for Cutler Reservoir; the Lower Bear River TMDL will begin in early 2008; the Upper Bear River TMDL was submitted to the EPA and approved; four segments of the Malad River were submitted to the EPA and approved; Wyoming is entering into discussions with the EPA, revisiting its watershed approach and TMDLs. Baker was asked about the pollution trading efforts and stated that it might be better to look at nonpoint source best management practices rather than point source. Jack Barnett reported on the pollution trading workshop scheduled for July. This will be an opportunity to get potential pollution traders together to discuss potential trading.

Chairman Hansen then reported that Commissioner Charles Holmgren was elected as the new chairman of the Records & Public Involvement Committee (RPIC). Commissioner Gordon Thornock was asked to give the report of the RPIC. Thornock reported that the committee met at 9:00 a.m. that morning. There was a discussion regarding the Bear River Symposium scheduled for September 5-7 in Logan, Utah. The first day will consist of a bus tour and the second and third days will be spent in presentations and discussions. The RPIC asked Jack Barnett to prepare a presentation on gaging and the automation that is taking place on the river as part of the symposium. Thornock indicated the RPIC learned in its meeting that PacifiCorp will no longer have its gage data published by the USGS and the Technical Advisory Committee (TAC) was asked to review how Connely Baldwin gets the data to the modelers in Utah and Idaho and how to publish the PacifiCorp numbers in the biennial report. The RPIC had a presentation by Roger Hansen (with the Bureau of Reclamation) on automation. The RPIC discussed Stonefly taking care of the website. The thirteenth biennial report was given to the RPIC for its review. Comments were to be given to Don Barnett by May 10, 2007. There were no questions for Commissioner Thornock.

Chairman Hansen reported that Commissioner Sam Lowham was elected as the new chairman of the Operations Committee (OC). Commissioner Rodney Wallentine was asked to give the report of the OC. Wallentine indicated the OC met during the morning of April 17. Connely Baldwin gave the PacifiCorp report to the OC. Don Barnett reported to the OC on the Woodruff Narrows Reservoir storage. The reservoir is full and spilling. The OC anticipates regulation this year. Jack Barnett discussed with the OC the opportunity to work with the Army Corps of Engineers and it was concluded that the Commission will not accept this opportunity but will thank the Army Corps for the invitation. The Twin Lakes Canal Company proposal was discussed and it was noted that the application has been filed with the Idaho Department of Water Resources. A proposed transfer of water in the Central Division to Bear Lake was discussed by the OC. A fish pond on Thomas Fork was also discussed. There were no questions for Commissioner Wallentine.

The Commission then took a fifteen minute break. Following the break, Jack Barnett was asked to give the Engineer-Manager's report and the report of the TAC. Barnett indicated that the pollution trading workshop will be a "by invitation only" workshop in order to hold the numbers down. Jeff Horsburgh, with USU, submitted a grant proposal to the university and has received a grant to do additional monitoring on Mud Lake. The intent is to get more water quality data as to inflow and outflow around the perimeters of the Mud Lake facility. It is anticipated that the TAC will perhaps meet in the early summer. Items on the TAC agenda will include: 1) the collection and storage of real time data; 2) the transfer being proposed to take water from the Central Division and allowing it go down the river while wells are drilled near Bear Lake; 3) staying abreast of the Twin Lakes Canal Company proposal; 4) determining how to get the same data previously available since PacifiCorp is no longer going to pay to have the USGS publish its data; 5) the monitoring around Mud Lake; 6) the content in the biennial report and how to array the canal diversions.

## **Bear River Commission**

**April 17, 2007**

**Page 4**

Chairman Hansen then asked Commissioner Tyrrell to give the Management Committee report. Tyrrell indicated the Management Committee discussed the Twin Lakes proposal and the Stonefly posting of the real time data and adding a line-item to the Commission budget to make sure this posting continues. The Management Committee also discussed the Commission's role in the Army Corps of Engineers' effort to make the Bear River Basin a pilot project. It was determined that the Commission has a sound data effort in place and it will be recommended to the Corps that the Corps write a short descriptive report outlining the efforts of the Commission in this regard. The Management Committee discussed the potential of PacifiCorp being a partner with regard to funding the Stonefly posting of data.

Commissioner Tyrrell then gave the Wyoming state report. Tyrrell reported on the drought conditions in Wyoming. With regard to legislation, Wyoming had a general session which lasted forty days. In even numbered years there is a budget session which lasts twenty days. The State Engineer's office was pushing two pieces of legislation, one to provide general rule making authority to promulgate rules under the title under which the State Engineer's office operates. Within the title in specific areas there are rule making authorities for certain types of jobs. Ground water has rule making authorities but surface water permitting does not have rule making authorities. The bill did not pass. There was also a bill to require mandatory licensing of water well drillers. This made it through the session and got to the Governor's desk. The Governor found a fatal flaw in the definition of a contractor and the bill was vetoed. The bills will be brought back to an interim committee during the summer.

The Idaho report was given by Gary Spackman. Spackman reported that Karl Dreher was not reappointed as the Director of Water Resources. He further reported that Dean Mathews will not seek reappointment to the Commission. Idaho determined to raise the subject of resolutions of appreciation for Karl Dreher and Dean Mathews at the next Commission meeting. Spackman then indicated Rock Holbrook is the new water master for the Bear River. The Interim Director of Water Resources is Dave Tuthill. He was not able to attend the Commission meeting because the Governor asked him to attend a water summit in Burley. Spackman noted the Snake River Basin adjudication commenced about twenty years ago. The bulk of the Director's reports that are required by the Idaho Department of Water Resources has been filed with the court. An adjudication is beginning in Northern Idaho. It is currently confined to an area around Coeur d'Alene. The Bear River Basin is the only basin not recently adjudicated in Idaho.

Commissioner Strong then gave the Utah report and indicated he had been communicating with Dave Tuthill regarding storage issues on the Bear River. Utah has looked for years at the Oneida site as a potential storage reservoir for Utah. Tuthill indicated this would not work and the only way Idaho would have a reservoir on the river in Idaho will be under joint partnership, both in water use and funding. When the issue was raised by Twin Lakes as to whether or not Utah was interested in participating, Utah's answer was yes but is interested in an equal partnership that provides equity in storage and cost. Strong indicated he was not optimistic this will happen.

Strong further reported that the Bear River Development Act, as authorized by the Utah State Legislature, directs the Division of Water Resources to pursue the development of 220,000 acre-feet on the Bear River. The Division of Water Resources is proceeding with this effort. Utah is looking at storage principally at Washakee, near the Idaho border near the Malad River, and is looking to do geotechnical studies to make sure this is a good reservoir site. Utah is negotiating with the Weber Basin Water Conservancy District, which operates Willard Bay, on a diversion near the crossing of I-15 and the Bear River to take water out of the Bear River, put it in a pipeline and move it to Willard Bay. This would be developing upwards of 60,000 or 70,000 acre-feet of water to meet the short-term water needs. Strong then reported that Woodruff

**Bear River Commission**

**April 17, 2007**

**Page 5**

Creek has made application with the Board of Water Resources for funding to raise the Woodruff Creek Reservoir. With regard to legislation, there were two instream flow bills which did not pass. The bills came from a legislative study committee. One bill was for instream flow for trout and one was designated as "A Solution For Pollution Is Dilution." This bill proposed that political subdivisions (people that owned waste water treatment facilities) could buy water rights and transfer them, under state law, to the point where they were discharging and mixing those waters so they could comply with their discharge permit requirements. In the short run this sounds like a good idea but they didn't look at the unintended consequences.

Chairman Hansen moved to agenda item XIV, other items. There being no other items, the Commission discussed the date of the next Commission meeting. Traditionally the Water Quality Committee meets the day before the Commission meeting. Monday, November 12 is the day Veteran's Day is observed. It was determined to move the Commission meeting to Wednesday, November 14. Gary Spackman indicated he would check with Dave Tuthill to see if this date will work for Tuthill. An alternate date of November 27 was briefly discussed. The Bear River Commission meeting was adjourned at 3:05 p.m.

## ATTENDANCE ROSTER

### BEAR RIVER COMMISSION ANNUAL MEETING

Utah Department of Water Resources  
Salt Lake City, Utah  
April 17, 2007

#### IDAHO COMMISSIONERS

Rodney Wallentine  
Gary Spackman (attending for Dave Tuthill)  
Marc Gibbs (attending for Dean Mathews)

#### WYOMING COMMISSIONERS

Patrick T. Tyrrell  
Sam Lowham  
Gordon Thornock  
Jade Henderson (Alternate)  
Sue Lowry (Alternate)

#### FEDERAL CHAIR

Dee C. Hansen

#### OTHERS IN ATTENDANCE

##### IDAHO

Liz Cresto, Department of Water Resources

##### UTAH

Todd Adams, Division of Water Resources  
Will Atkin, Division of Water Rights  
Walt Baker, Department of Environmental Quality  
Bob Fotheringham, Division of Water Rights  
Ron Hoffman, Upper Bear River Commissioner  
Ken Short, Division of Water Resources  
Randy Staker, Division of Water Resources

##### WYOMING

Don Shoemaker, Water Commissioner

##### OTHERS

Connely Baldwin, PacifiCorp  
Marvin Bollschweiler, Retired Wyoming Hydrographer  
Carly Burton, Bear River Water Users Association  
Claudia Conder, PacifiCorp  
Claudia Cottle, Bear Lake Watch  
David Cottle, Bear Lake Watch  
Dan Davidson, Bear River Canal Company  
Voneene Jorgensen, Bear River Water Conservancy District

#### UTAH COMMISSIONERS

Dennis Strong  
Blair R. Francis  
Charles Holmgren  
Norman Weston (Alternate)

#### ENGINEER-MANAGER & STAFF

Jack A. Barnett  
Don A. Barnett  
Nola Peterson

**APPENDIX A**  
**PAGE TWO**

Patrick Lambert, U.S. Geological Survey  
Don Riches, Emerald Beach Homeowners Association  
Kerry Schwartz, Bureau of Reclamation  
Ray Wilson, USDA/NRCS Snow Survey

**AGENDA**

Bear River Commission Annual Meeting  
April 17, 2007

Utah Department of Natural Resources Building  
Auditorium  
Salt Lake City, Utah

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COMMISSION AND ASSOCIATED MEETINGS

**April 16**

10:00 a.m. Water Quality Committee Meeting, Room 314

**April 17**

9:00 a.m. Records & Public Involvement Committee Mtg, Room 314 Thornock

10:15 a.m. Operations Committee Meeting, Room 314 Wallentine

11:30 a.m. Informal Meeting of Commission, Room 314 Barnett

11:45 a.m. State Caucuses and Lunch Tuthill/Tyrrell/Strong

1:00 p.m. Commission Meeting, Auditorium Hansen

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ANNUAL COMMISSION MEETING

April 17, 2007

**Convene Meeting:** 1:00 p.m., Chair Dee Hansen

- I. Call to order Hansen
  - A. Welcome of guests and overview of meeting
  - B. Approval of agenda
- II. Approval of minutes of last Commission meeting Hansen  
(November 21, 2006)
- III. Report of Secretary/Treasurer Strong/Staker
- IV. Election of officers and expression of appreciation Hansen



**APPENDIX B  
PAGE ONE**

- V. Snow pack Wilson
- VI. PacifiCorp issues Baldwin
  - A. Water supply
  - B. Allocations in 2007
- VII. Activities of the Bear River Water Users Association Burton
- VIII. Report of the Water Quality Committee Baker
- IX. Report of the Records & Public Involvement Committee Thornock
- X. Report of the Operations Committee Wallentine
- BREAK**
- XI. Engineer-Manager and TAC report J. Barnett
- XII. Report of the Management Committee Tyrrell
  - A. Bear River Commission's role in Army Corps effort
  - B. Bear River Commission's role in the posting of real time diversion data
  - C. Bear River Commission and the Twin Lakes proposal
  - D. Other
- XIII. State Reports
  - A. Wyoming Tyrrell
  - B. Idaho Tuthill
  - C. Utah Strong
- XIV. Other Items Hansen
- XV. Next Commission Meeting Hansen  
(Tuesday, November 13, 2007)

**Anticipated adjournment: 3:30 p.m.**

BEAR RIVER COMMISSION

STATEMENT OF INCOME AND EXPENDITURES

FOR THE PERIOD OF JULY 1, 2006 THRU APRIL 10, 2007

INCOME	CASH ON HAND	OTHER INCOME	FROM STATES	TOTAL REVENUE
Cash Balance 07-01-06	39,859.80			39,859.80
State of Idaho			35,000.00	35,000.00
State of Utah			35,000.00	35,000.00
State of Wyoming			35,000.00	35,000.00
US Fish & Wildlife		6,500.00		6,500.00
Interest on Savings		3,445.45		3,445.45
 TOTAL INCOME TO APR 10, 2007	 39,859.80	 9,945.45	 105,000.00	 154,805.25

DEDUCT OPERATING EXPENSES

	APPROVED BUDGET	UNEXPENDED BALANCE	EXPENDITURES TO DATE
Stream Gaging/USGS Contract	0.00	0.00	0.00
SUBTOTAL	0.00	0.00	0.00

EXPENDED THROUGH COMMISSION

Personal Services	Jack	53,920.00	8,986.70	44,933.30
Travel (Eng-Mgr)		1,200.00	459.32	740.68
Office Expenses		1,600.00	1,006.52	593.48
Printing Biennial Report		2,000.00	2,000.00	0.00
Treasurer Bond & Audit		1,400.00	1,300.00	100.00
Printing		1,600.00	97.90	760.77
Contingency		5,000.00	5,000.00	0.00
SUBTOTAL		66,720.00	19,591.77	47,128.23

TOTAL EXPENSES 66,720.00 19,591.77 47,128.23

CASH BALANCE AS OF 04-10-07 107,677.02

**APPENDIX C**  
**PAGE TWO**

BEAR RIVER COMMISSION

DETAILS OF EXPENDITURES

FOR PERIOD ENDING NOV 1, 2006

642	JACK BARNETT	8,986.66
644	JACK BARNETT	9,265.29
645	JACK BARNETT	4,715.42
646	JACK BARNETT	5,141.94
647	JACK BARNETT	4,868.66
	trans to WQA for service fees	100.00
648	JACK BARNETT	4,547.37
649	VOID	
650	VOID	
651	CAN SURETY	100.00
652	JACK BARNETT	9,402.89

TOTAL EXPENSE 47,128.23

BANK RECONCILIATION

Cash in Bank per Statement 04-10-07	5,904.18
Plus: Intransit Deposits	
Less: Outstanding Checks	
Total Cash in Bank	5,904.18
Plus: Savings Account-Utah State Treasurer	101,772.84
TOTAL CASH IN SAVINGS AND IN CHECKING ACCOUNT	107,677.02

## BEAR RIVER COMMISSION

APPROVED BUDGET FOR FY 2007, AND PROPOSED BUDGETS FOR FY2008 AND FY2009

	FY 2007 PROPOSED BUDGET	FY 2008 PROPOSED BUDGET	FY 2009 PROPOSED BUDGET
	-INCOME-	-INCOME-	-INCOME-
BEGINNING BALANCE	39,859.80	88,939.80	74,219.80
IDAHO	35,000.00	35,000.00	40,000.00
UTAH	35,000.00	35,000.00	40,000.00
WYOMING	35,000.00	35,000.00	40,000.00
USF&WS	6,500.00	6,750.00	7,050.00
INTEREST ON SAVINGS	4,300.00	4,500.00	4,500.00
TOTAL INCOME	155,659.80	205,189.80	205,769.80
	-EXPENDITURES-	-EXPENDITURES-	-EXPENDITURES-
STREAM GAGING-U.S.G.S.	0.00	56,550.00	59,350.00
PERSONAL SERVICES CONTRA	53,920.00	56,620.00	59,450.00
TRAVEL	1,200.00	1,200.00	1,200.00
OFFICE EXPENSES	1,600.00	1,600.00	1,600.00
BIENNIAL REPORT	2,000.00	1,000.00	1,000.00
TREASURER'S BOND & AUDIT	1,400.00	1,400.00	1,400.00
PRINTING	1,600.00	1,600.00	1,600.00
WEB PAGE/DATA	0.00	6,000.00	6,000.00
CONTINGENCY	5,000.00	5,000.00	5,000.00
TOTAL EXPENDITURES	66,720.00	130,970.00	136,600.00
UNEXPENDED CASH BALANCE	88,939.80	74,219.80	69,169.80

***BEAR RIVER COMMISSION  
WATER SUPPLY OUTLOOK  
REPORT***

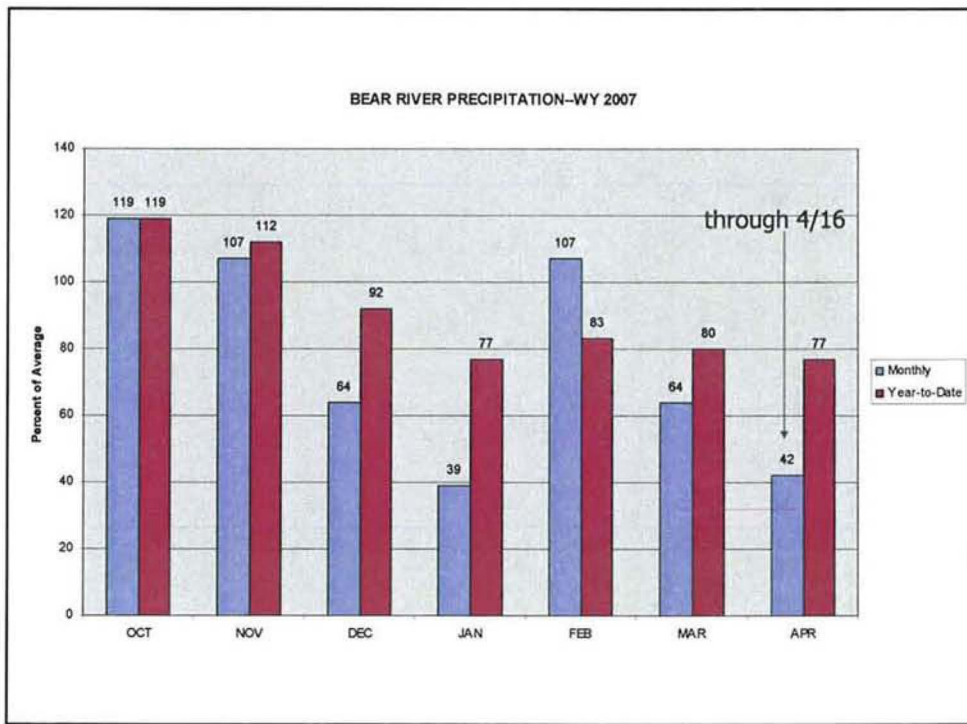
*April 17, 2007*

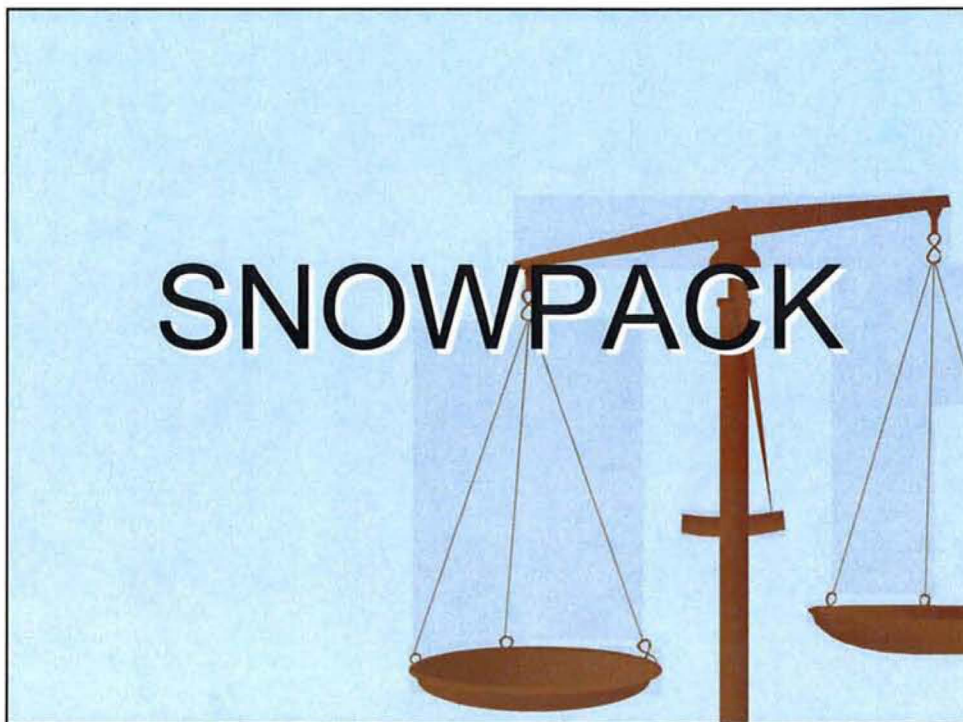
**Ray Wilson  
USDA-NRCS-SNOW SURVEY**

## General Water Supply Conditions

- The April first **snowpack** on the Bear River Watershed was **much below normal**.
- **Streamflow** this spring and summer is expected to be in the **much below normal** range.
- **Bear Lake** is still only **38%** of capacity.

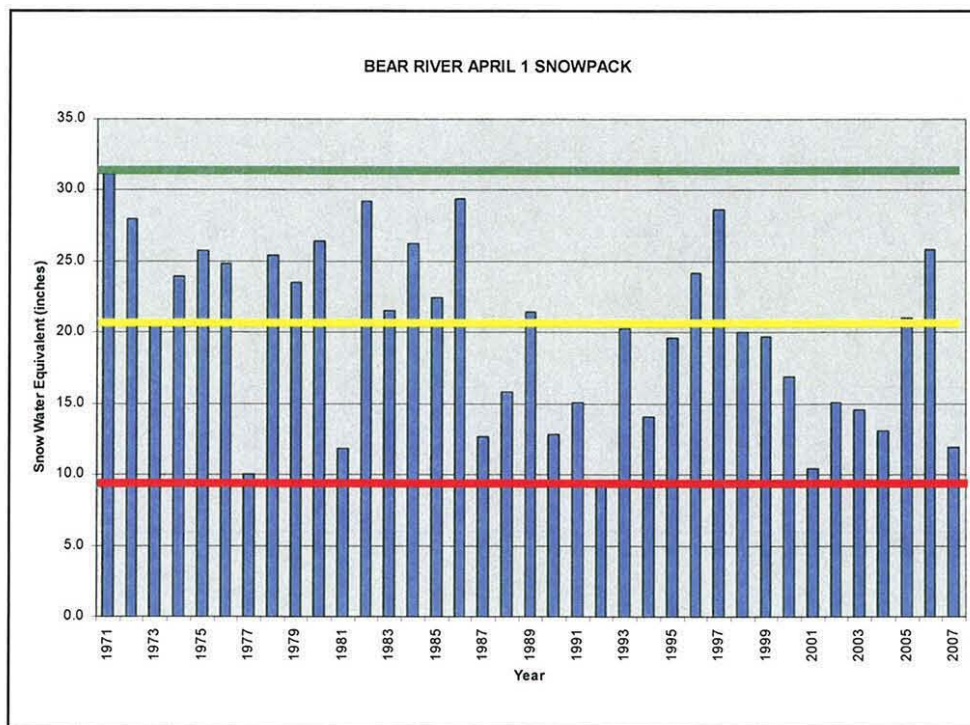
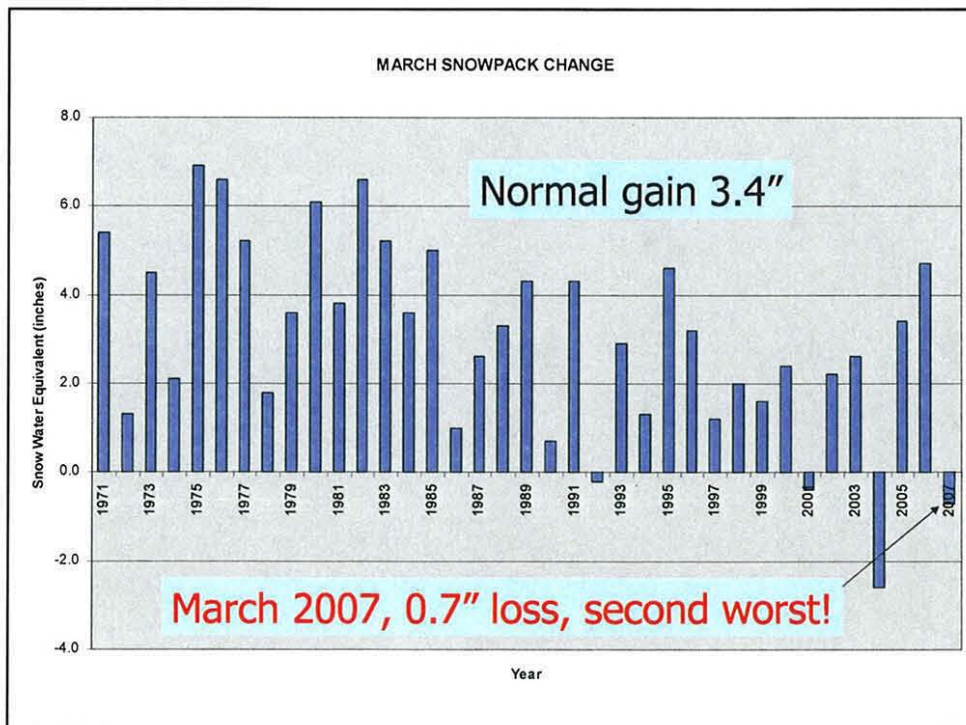
# MOUNTAIN PRECIPITATION



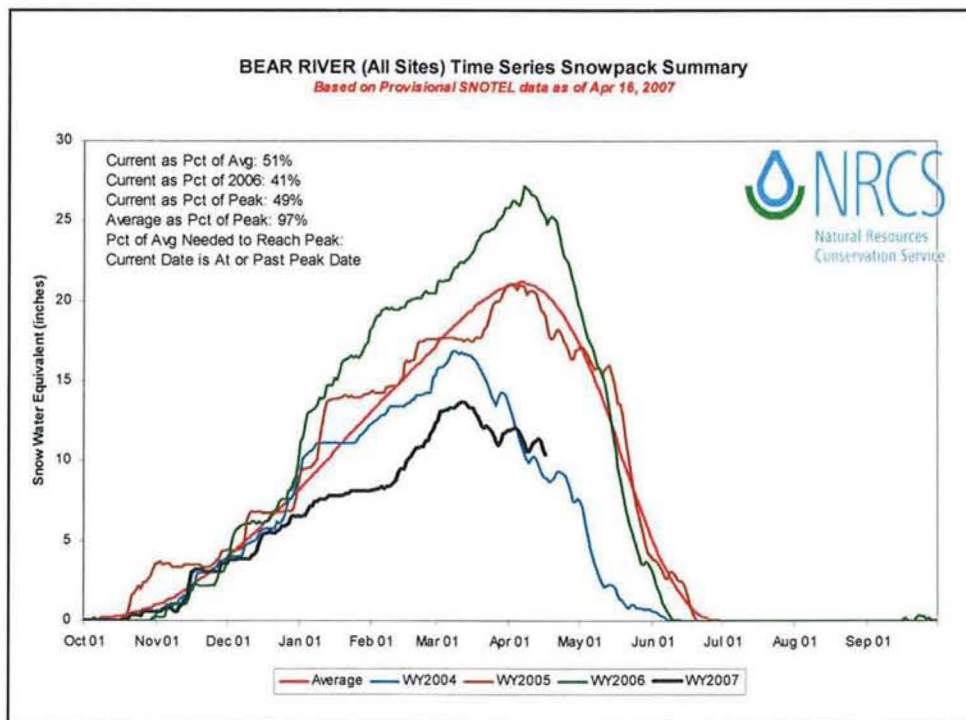
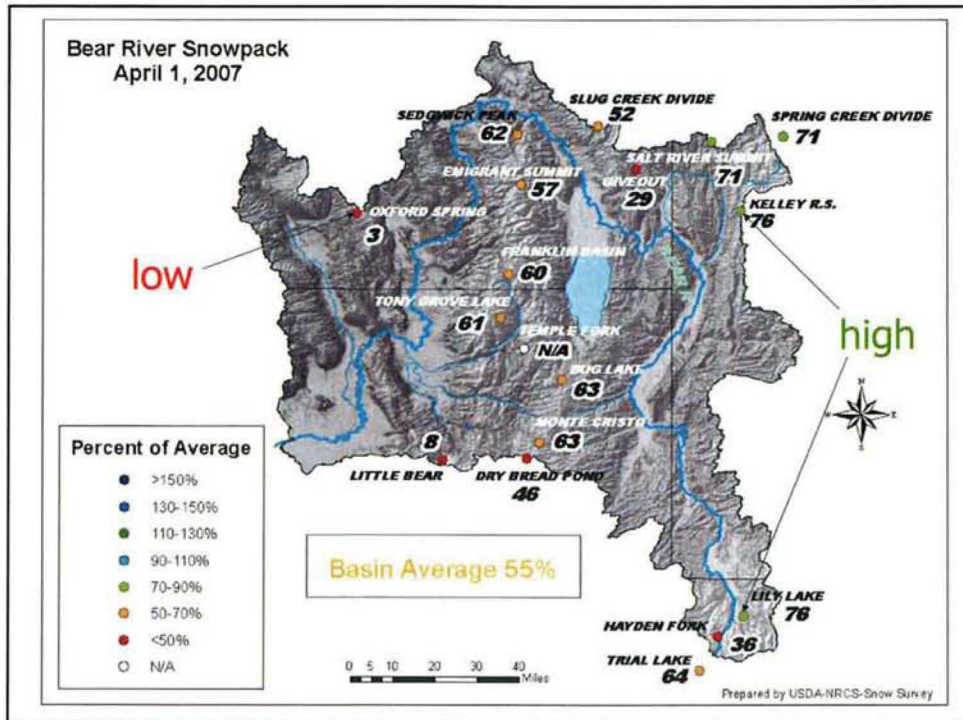


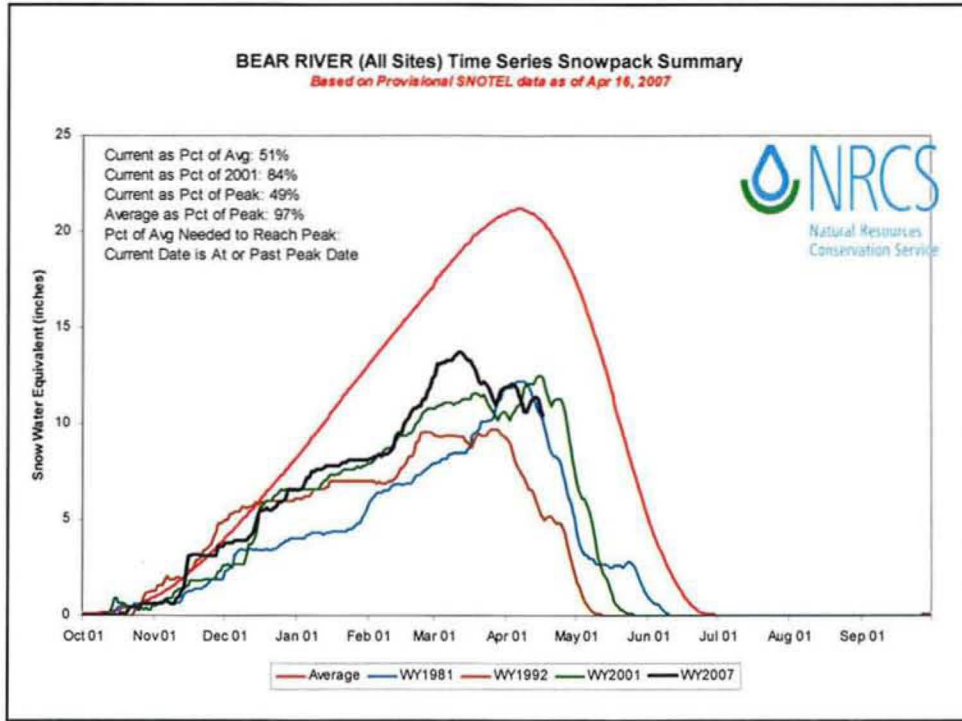
## SEASON SYNOPSIS

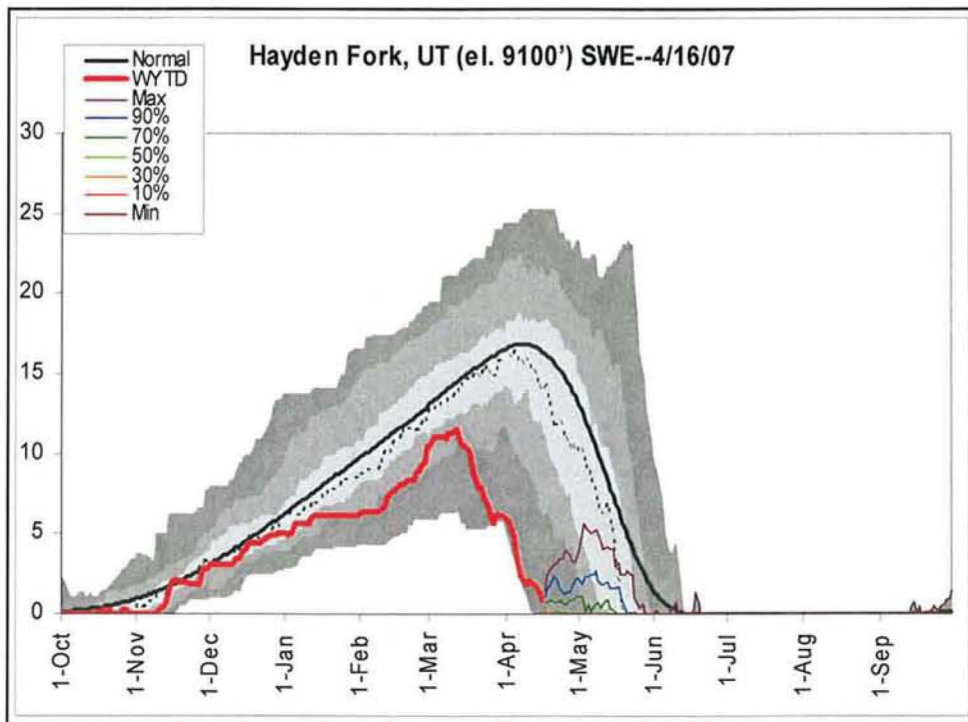
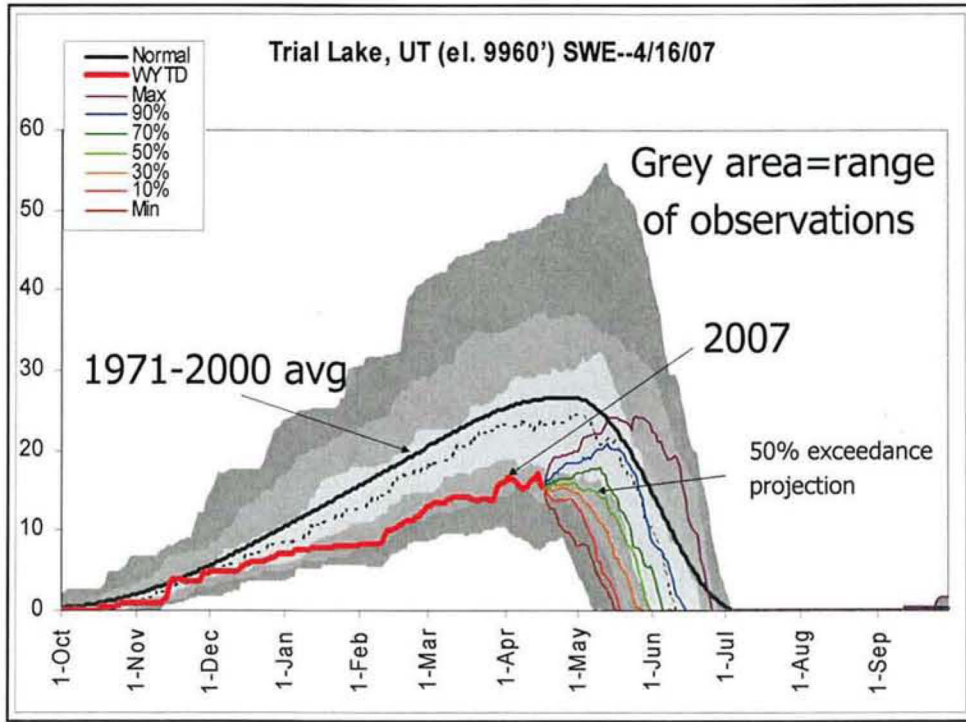
- **January's one-third normal increase just about killed any chance we had of having a normal snowpack year.**
- **February boosted our hopes with an above normal increase.**
- **March saw a net loss of snow water with melt beginning about three weeks early.**
- **The situation has worsened during the first half of April!**

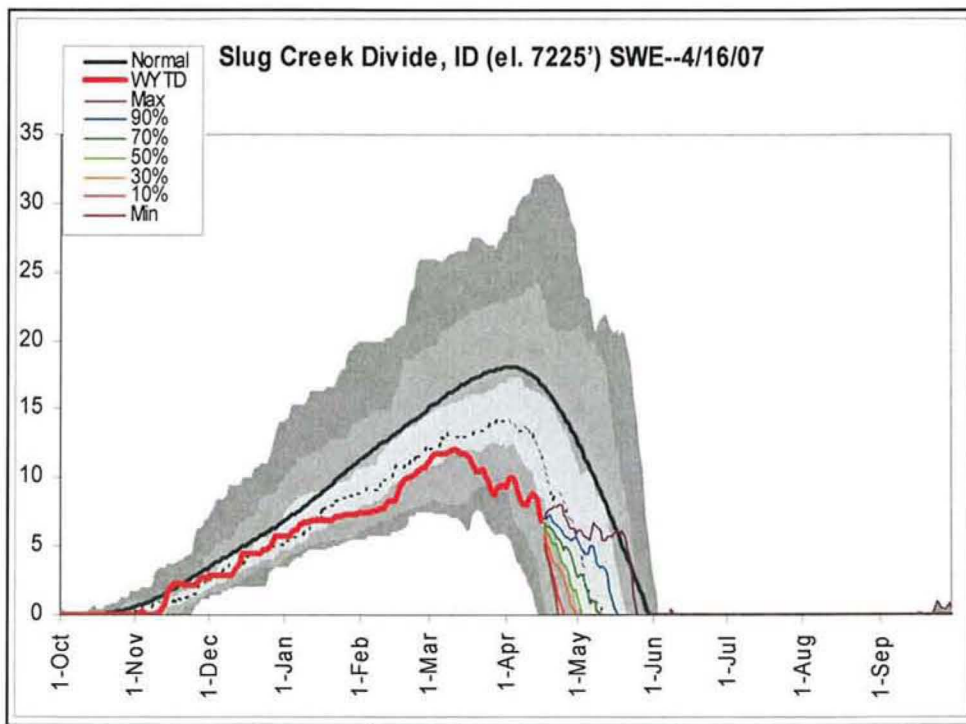
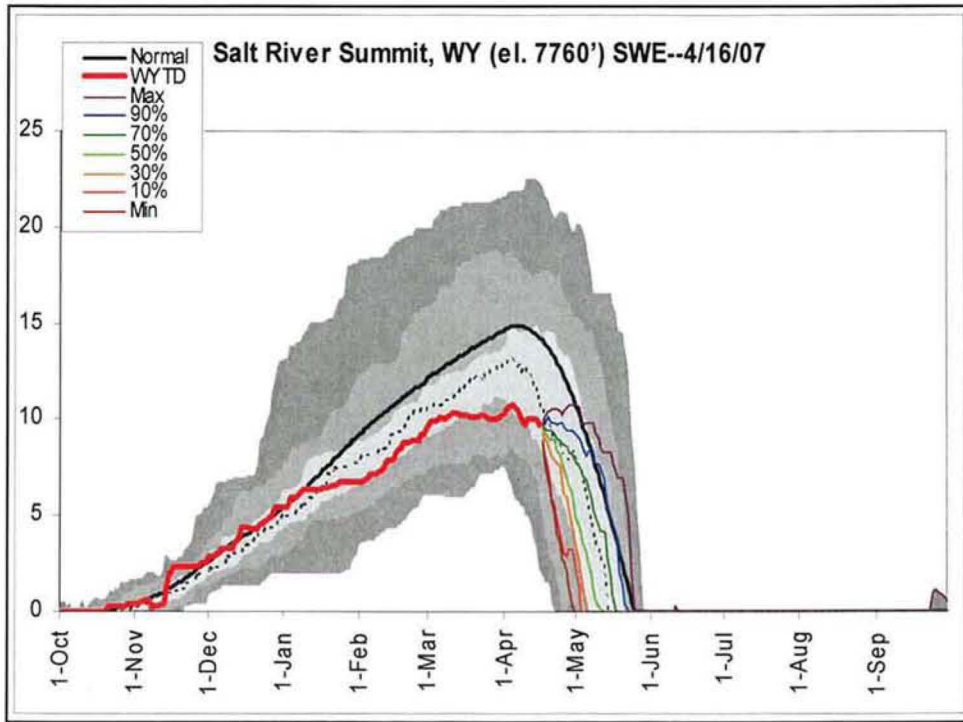


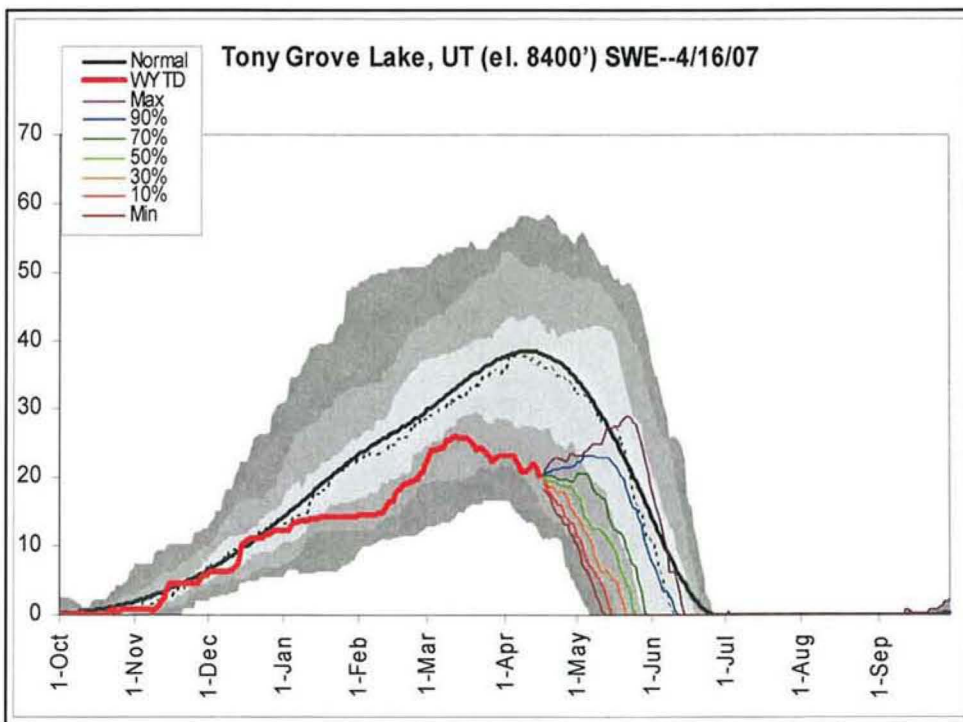
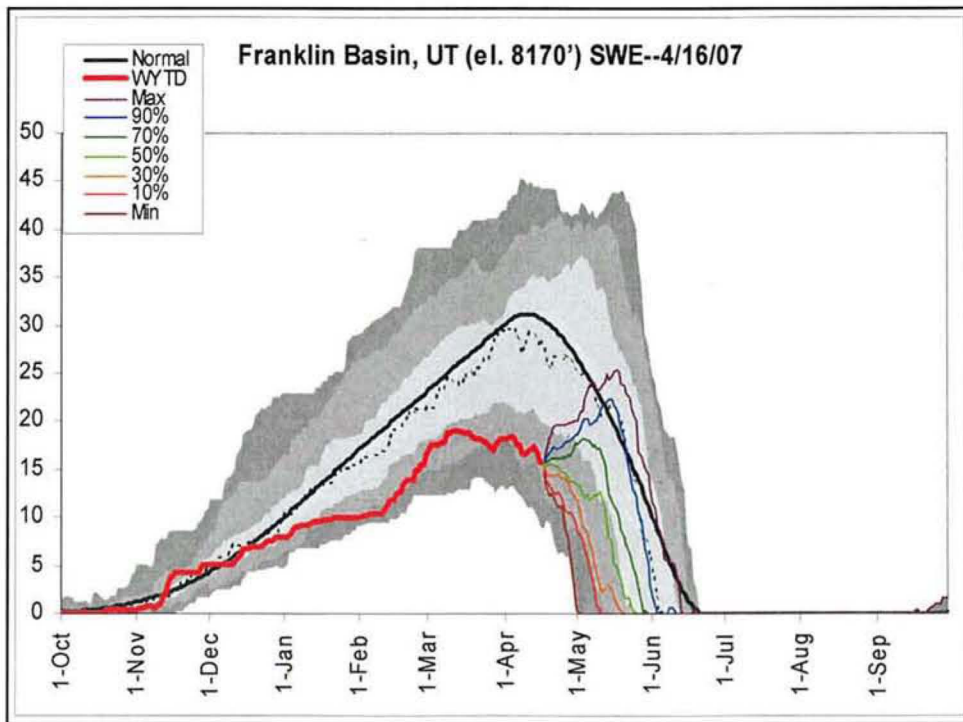


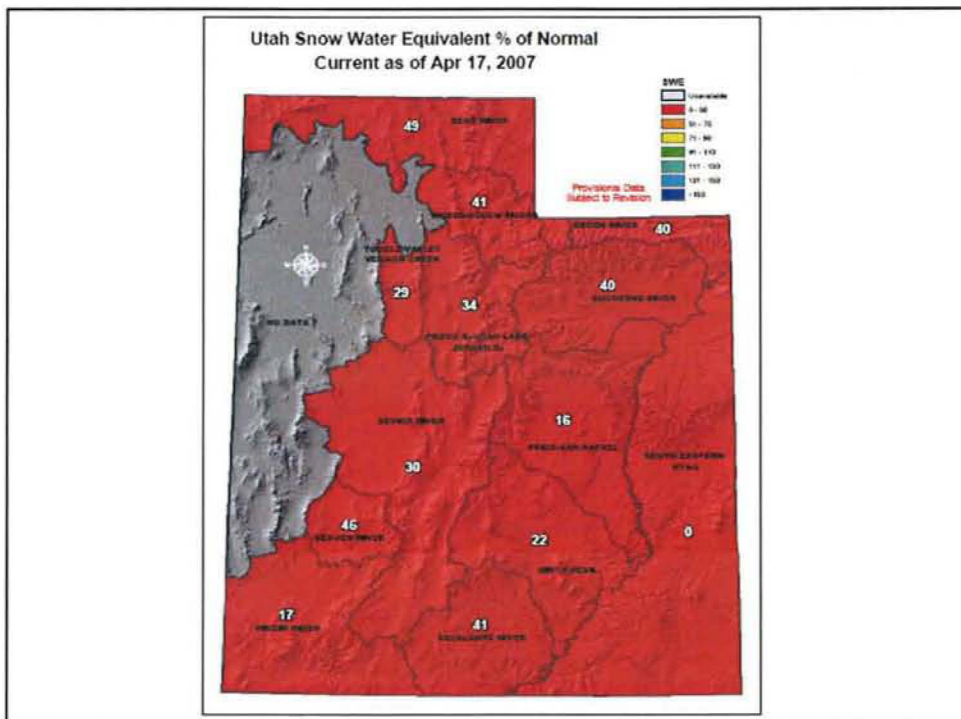
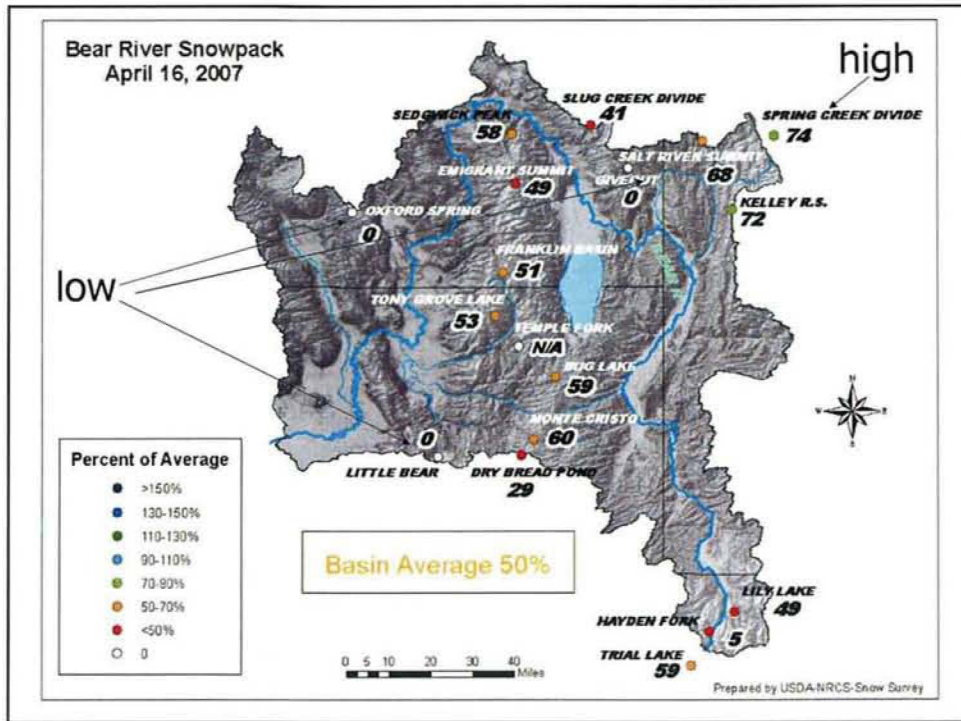




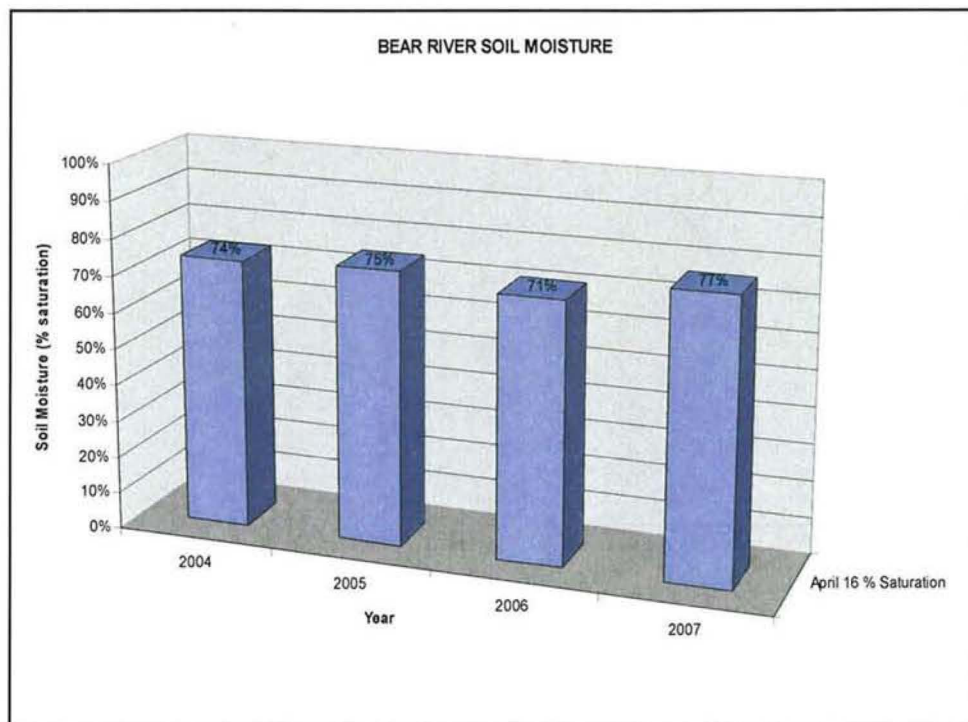




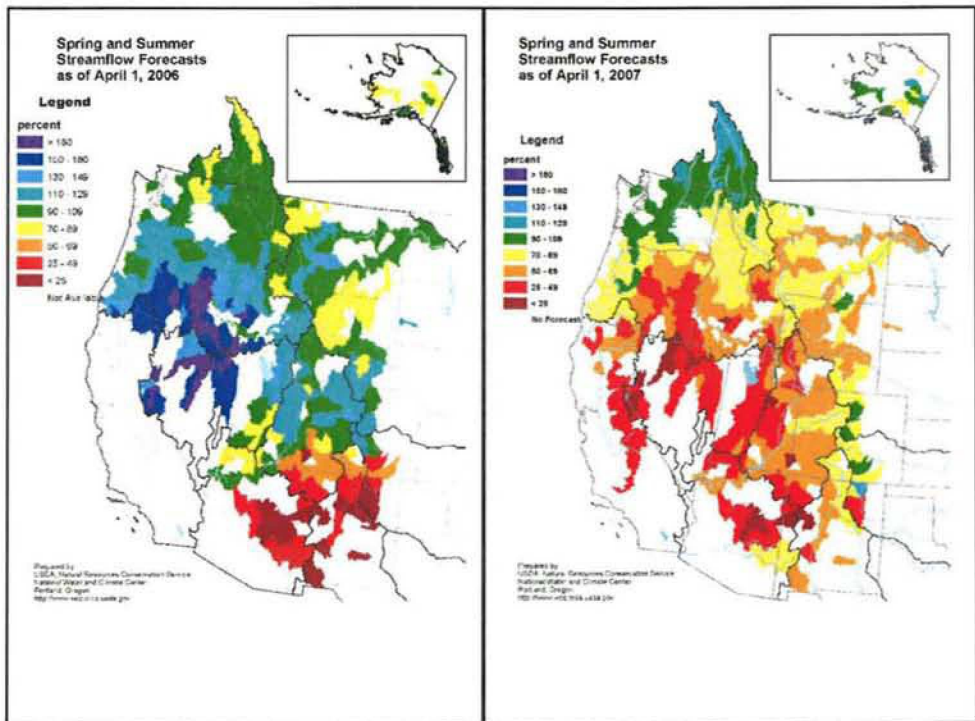




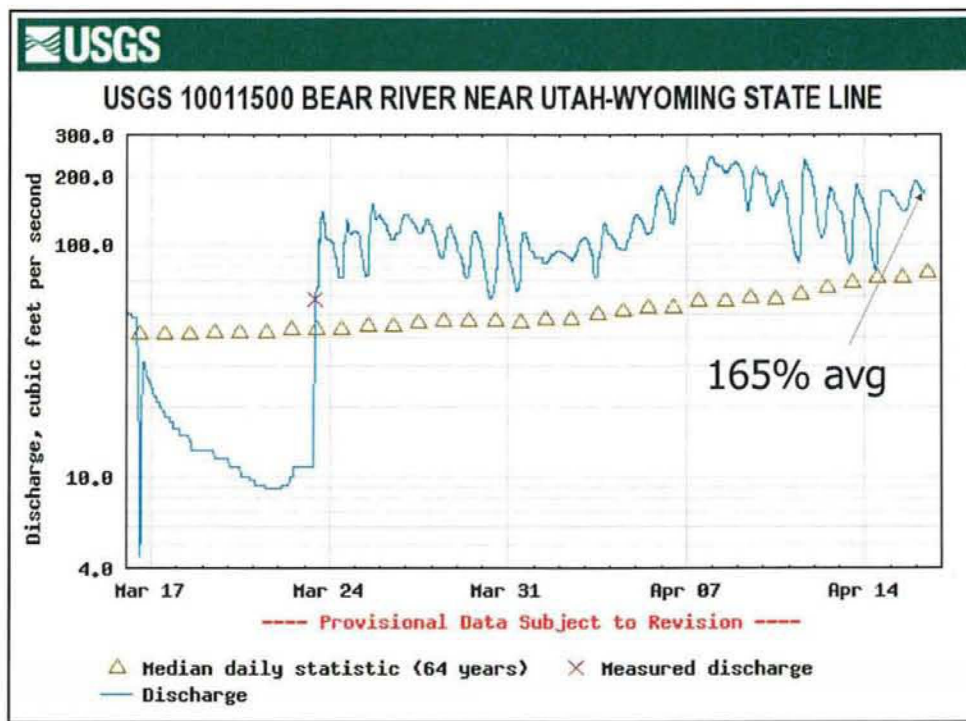
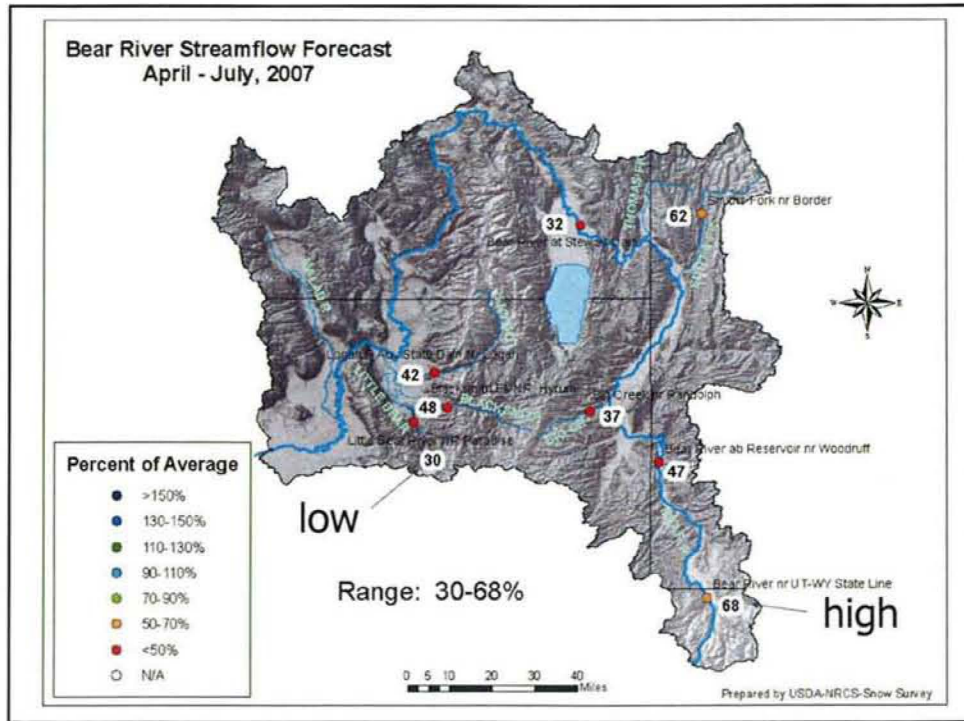
# SOIL MOISTURE

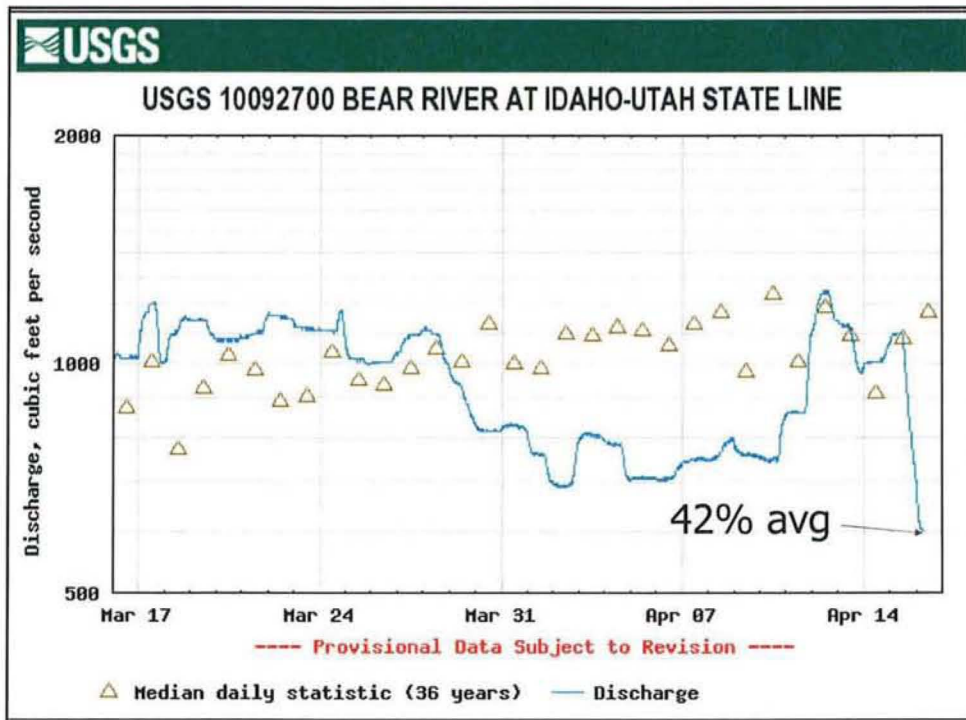
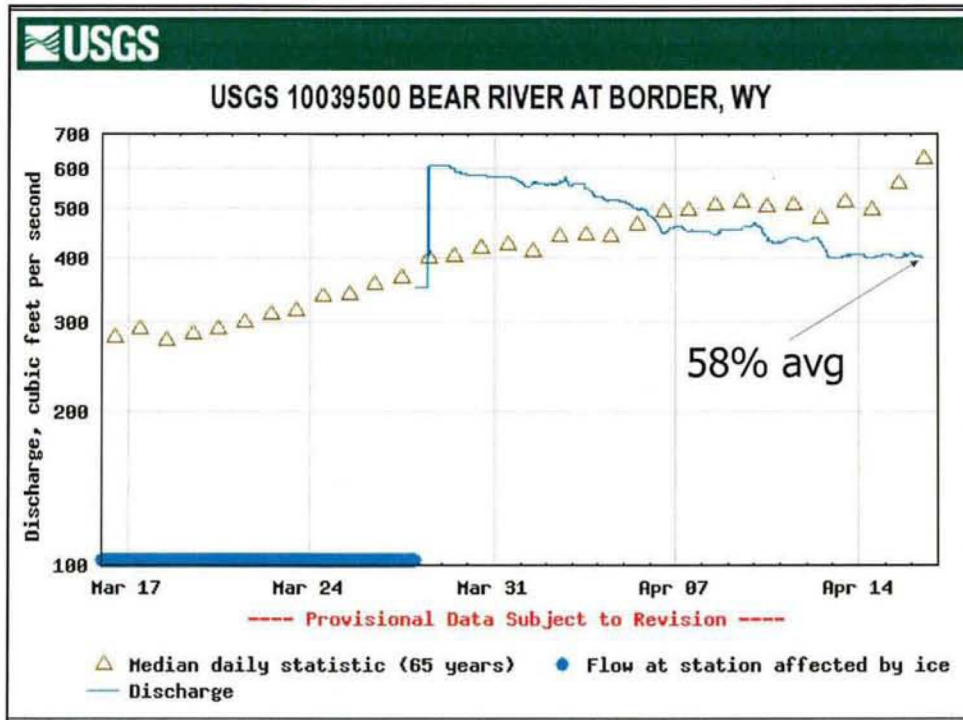


# CURRENT STREAMFLOW AND FORECASTS





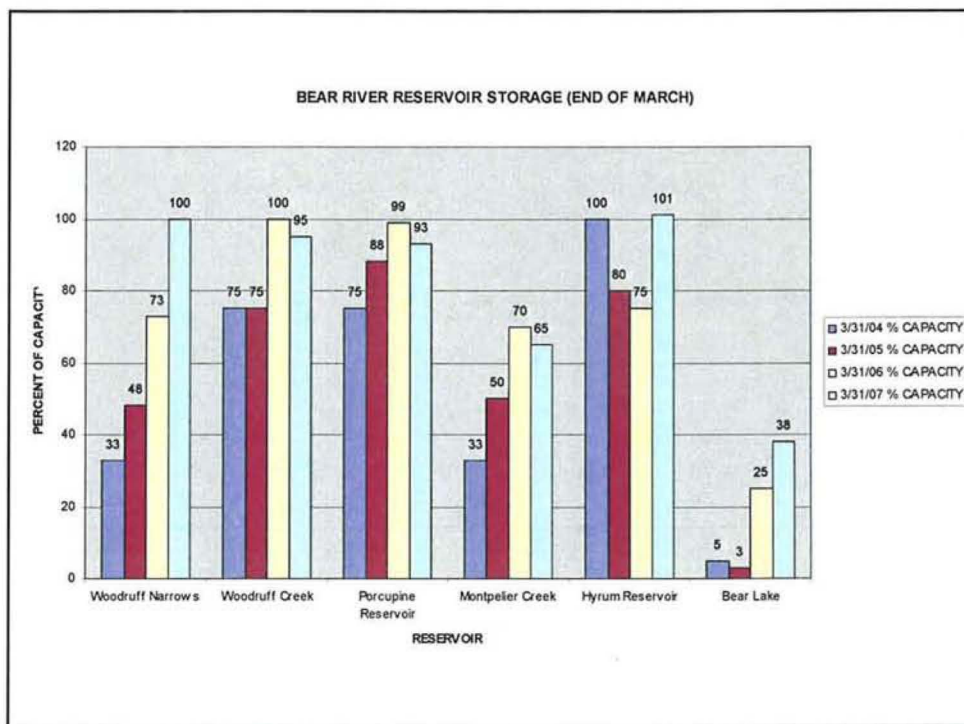
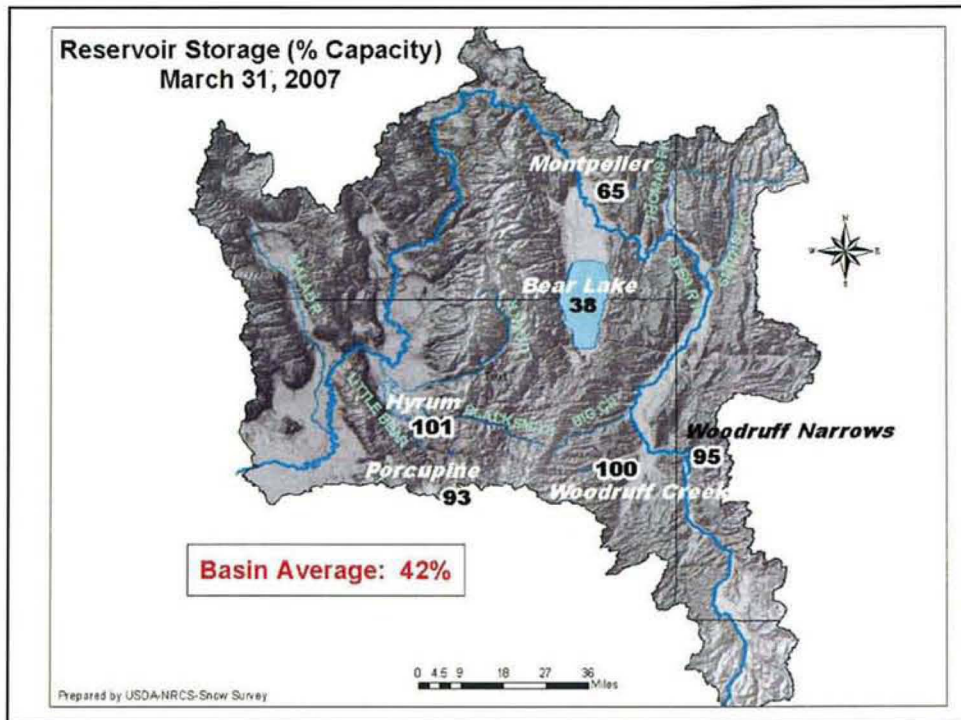


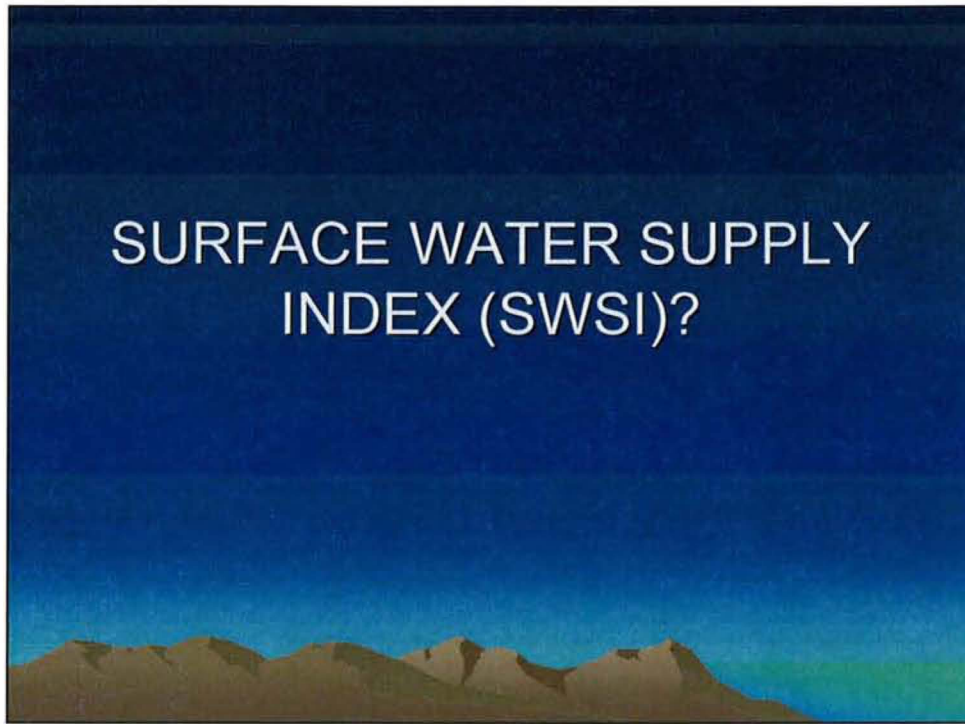


## BEAR RIVER FORECAST CHANGE—4/1-16/07

FORECAST POINT	PERIOD	4/1 FORECAST (KAF)	4/1 % AVG	4/16 FORECAST (KAF)	4/16 % AVG	1971- 2000 AVG	CHANGE (KAF)	CHANGE %
Bear River nr UT-WY State Line	APR-JUL	77	68	72	64	113	-5	-4
Bear River ab Reservoir nr Woodruff	APR-JUL	64	47	64	47	136	0	0
Big Creek nr Randolph	APR-JUL	1.8	37	1.1	22	4.9	-0.7	-14
Smiths Fork nr Border	APR-JUL	64	62	64	62	103	0	0
Bear River at Stewart Dam	APR-JUL	75	32	74	32	234	-1	0
Little Bear River at Paradise	APR-JUL	14	30	13.1	28	46	-0.9	-2
Logan R Abv State Dam Nr Logan	APR-JUL	53	42	47	37	126	-6	-5
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	23	48	16.7	35	48	-6.3	-13

## RESERVOIR STORAGE

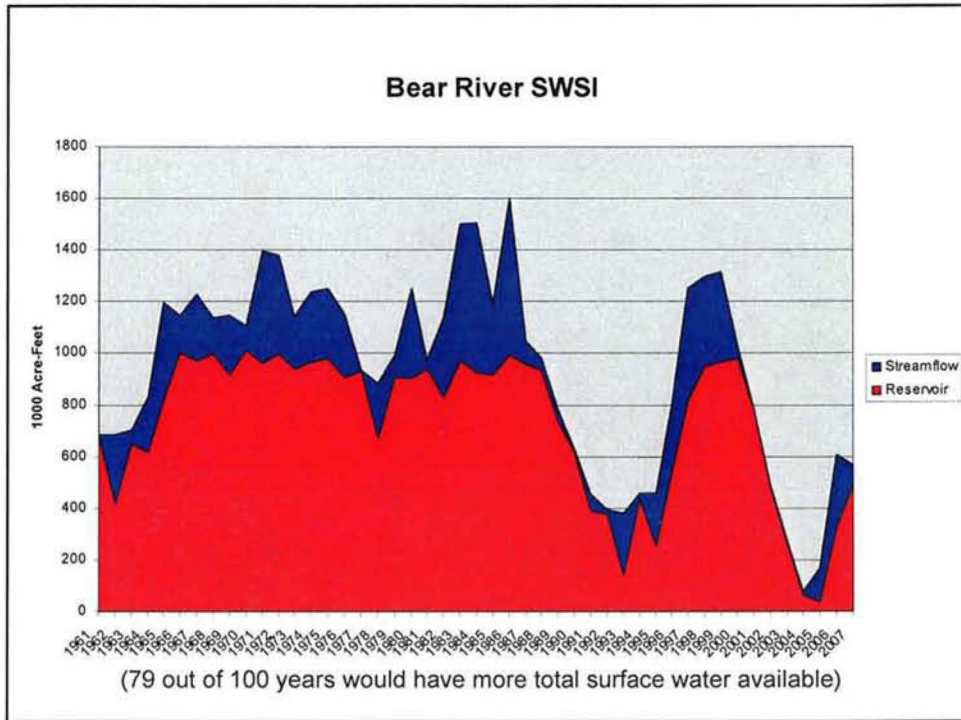




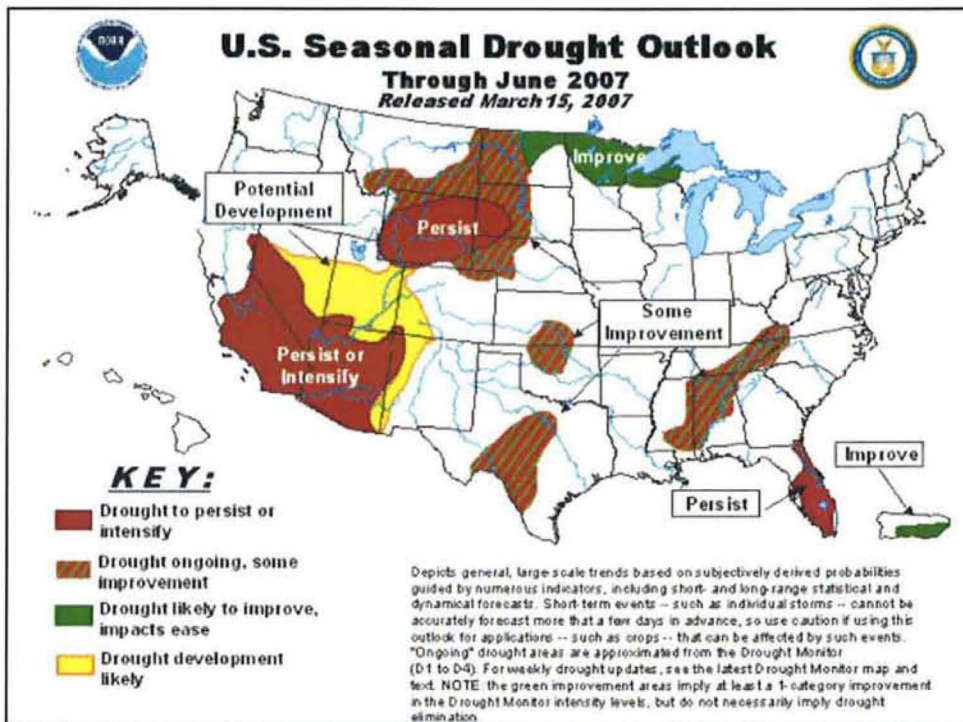
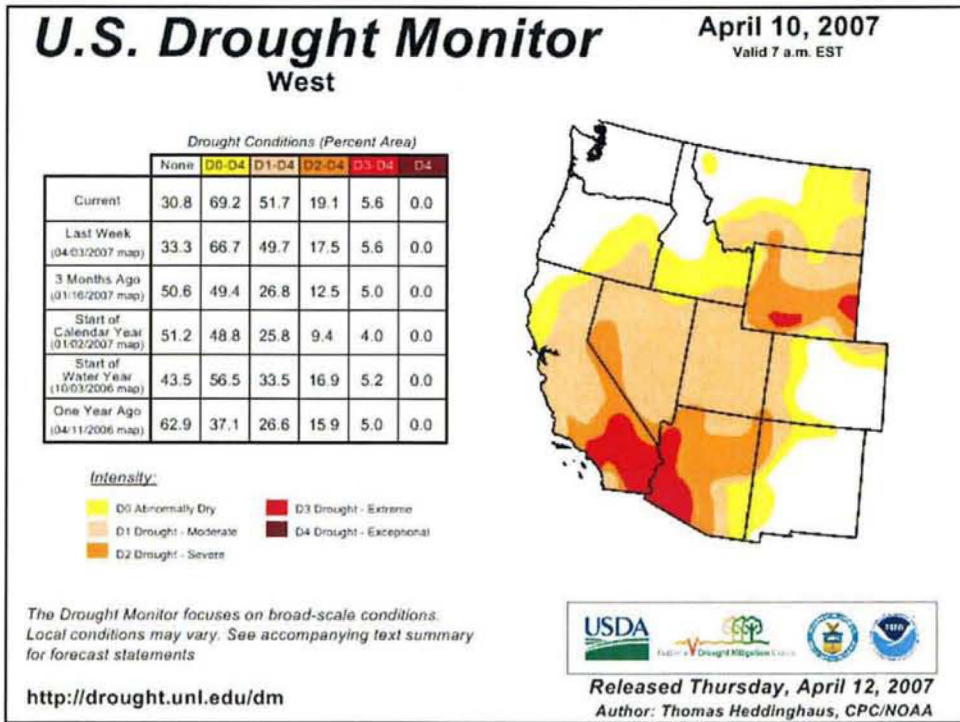
Bear River at Stewart Dam SWSI  
Jan - Apr

April 1, 2007 # of years 47

Record #	Year	Reservoir (KAF)	Streamflow (KAF)	Reservoir + Streamflow (KAF)	Probability	SWSI
1	1960	41	133	174.0	4	-3.99
2	2005	37	133	170.0	4	-3.82
3	2003	259	8	267.0	6	-3.65
4	1983	142	241.0	383.0	8	-3.47
5	1992	376	17.9	393.9	10	-3.30
6	1991	346	66.3	412.3	13	-3.13
7	1994	436	22.2	458.2	15	-2.95
8	1995	255	204.9	459.9	17	-2.78
9	2002	475	8	483.0	19	-2.60
10	2007	498	75	573.0	21	-2.43
11	2006	325.3	290	605.3	23	-2.26
12	1990	617	14.4	631.4	25	-2.08
13	1962	416	268.9	684.9	27	-1.91
14	1961	679	7.8	686.8	29	-1.74
15	1963	847	58.0	905.0	31	-1.56
16	2001	781	1.0	782.0	33	-1.39
17	1989	739	44.8	783.8	35	-1.22
18	1966	529	294.2	823.2	38	-1.04
19	1964	615	214.1	829.1	40	-0.87
20	1976	671	213.9	884.9	42	-0.69
21	1977	928	5.2	933.2	44	-0.52
22	1981	637	38.2	675.2	46	-0.35
23	1968	635	50.2	685.2	49	-0.17
24	1978	609	85.2	694.2	50	0.00
25	2000	891	49.2	940.2	52	0.17
26	1987	956	92.2	1048.2	54	0.35
27	1970	1009	90.0	1109.0	56	0.52
28	1968	999	140.7	1139.7	58	0.69
29	1982	828	311.9	1140.9	60	0.87
30	1973	937	205.6	1142.6	63	1.04
31	1969	1001	146.0	1147.0	65	1.22
32	1969	914	234.3	1148.3	67	1.39
33	1976	906	247.5	1153.5	69	1.56
34	1965	917	274.8	1191.8	71	1.74
35	1965	617	377.8	1194.8	73	1.91
36	1967	969	258.0	1227.0	75	2.08
37	1974	965	273.1	1238.1	77	2.26
38	1975	980	269.0	1249.0	79	2.43
39	1967	815	436.1	1251.1	81	2.60
40	1990	903	360.6	1263.6	83	2.78
41	1998	949	348.3	1297.3	85	2.95
42	1999	665	349.2	1314.2	88	3.13
43	1972	997	382.1	1379.1	90	3.30
44	1971	961	433.9	1394.9	92	3.47
45	1983	972	529.3	1501.3	94	3.65
46	1984	926	577.6	1503.6	96	3.82
47	2004	926	672.2	1598.2	98	3.99



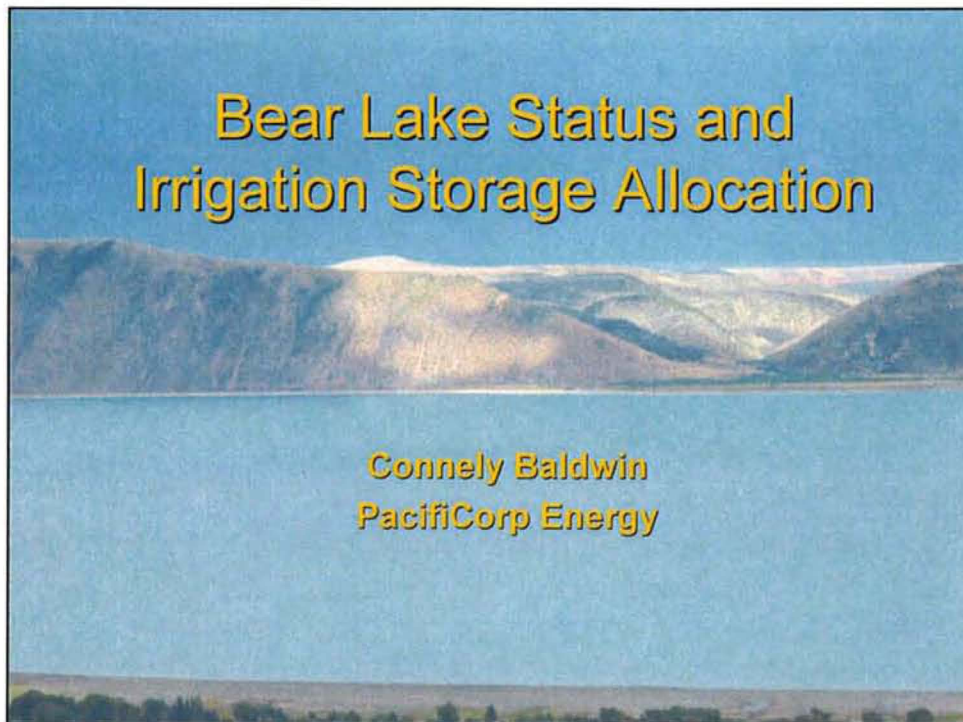
# DROUGHT MONITOR AND LONG RANGE FORECAST



## SUMMATION:

- Following a couple of above average snow years we have slipped back to much below normal.
- Reservoir storage is 42% of capacity overall because of Bear Lake's low level but most smaller reservoirs should fill if they haven't already.
- Stream flow forecasts are for much below average flows basin-wide.
- The drought is back with potential for further development.

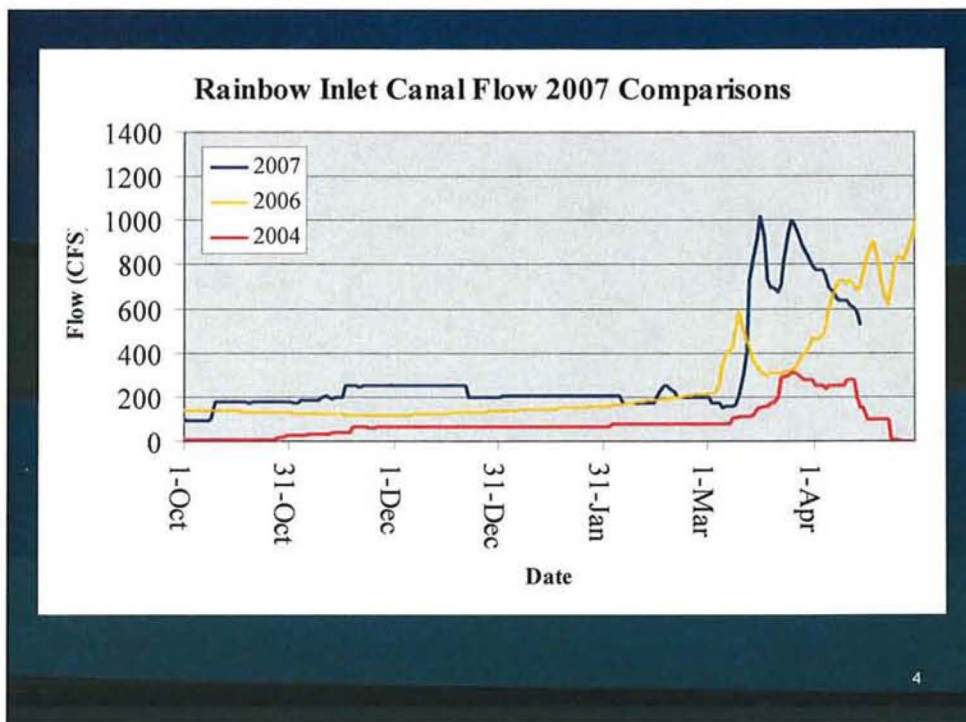
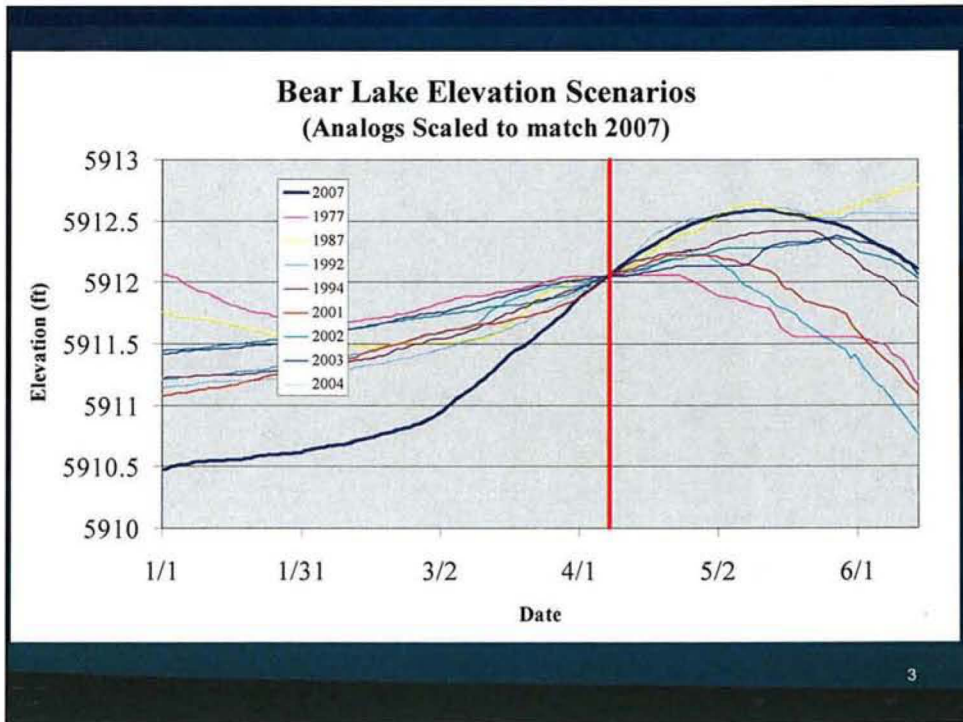




## 2007 Irrigation Storage Allocation

- ❑ Current Bear Lake Elevation: 5912.22 (April 15)
- ❑ NRCS Water Supply Forecast (at Stewart Dam)
  - 42 TAF – 118 TAF
  - Most Likely 75 TAF
- ❑ Analog Years ...

2

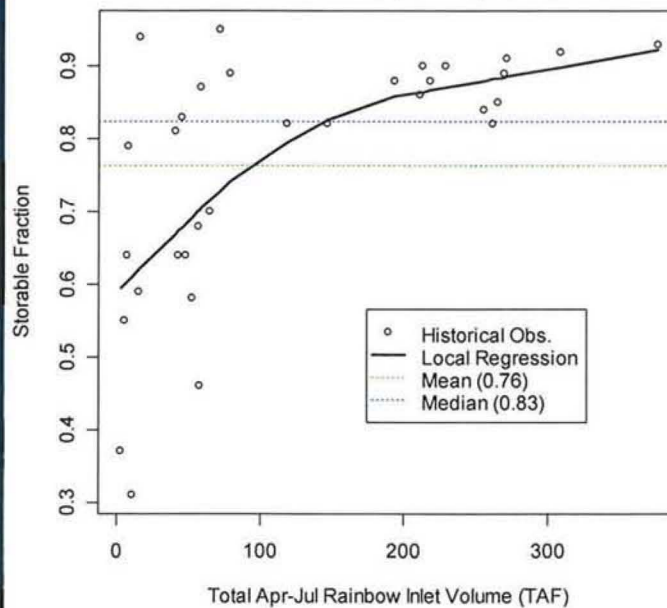


## 2007 Irrigation Storage Allocation

- NRCS Forecast (at Stewart Dam)
  - 42 TAF – 118 TAF
  - Most Likely 75 TAF
- Considerations:
  - Storable Flow
  - Local Inflow to Bear Lake

5

Historical Spring Storable Flow Fraction  
of Rainbow Inlet Canal April-July Runoff Volume



6

## 2007 Irrigation Storage Allocation

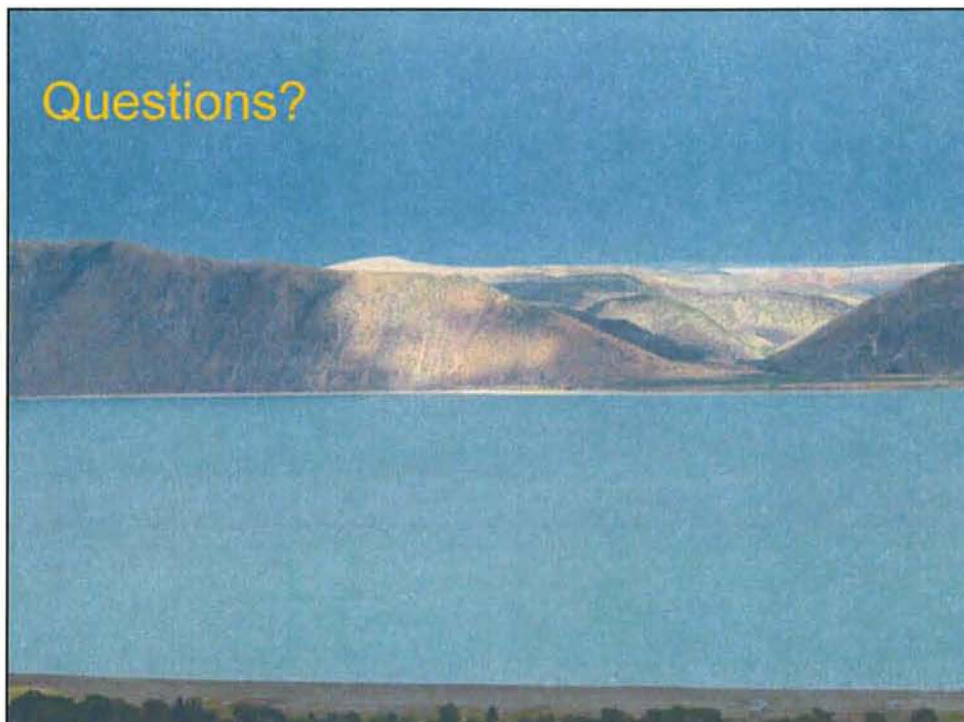
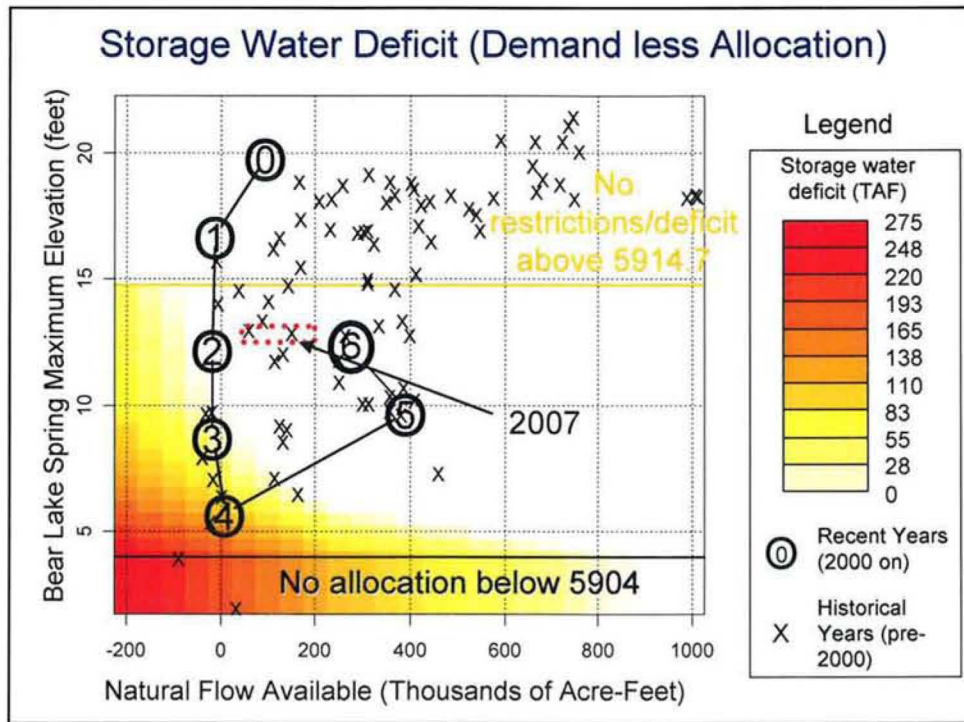
- ❑ NRCS Forecast (at Stewart Dam)
  - 42 TAF – 118 TAF
  - Most Likely 75 TAF
- ❑ Considerations:
  - Storable Flow
  - Local Inflow to Bear Lake
- ❑ Allocation:
  - Estimated Spring Maximum Elevation: **5912.6'**
  - **Irrigation Allocation: 218 TAF**

7

## Is it enough?

USER GROUP	PERCENT ALLOCATION	ALLOCATION AMOUNT	PERCENT LOSSES	LOSS AMOUNT	NET HEADGATE DELIVERY
Last Chance	19.0	41420	1.5	621	40799
West Cache	12.3	26814	2.5	670	26144
Cub River	9.1	19838	3.5	694	19144
Idaho Pumpers	3.0	6540	3.5	229	6311
Utah Pumpers	4.8	10464	4.5	471	9993
Bear River Canal	51.8	112924	4.5	5082	107842
TOTALS	100	218000	3.6%	7767	210233

8



**BEAR RIVER WATER USERS ASSOCIATION  
REPORT TO THE BEAR RIVER COMMISSION  
APRIL 17, 2007**

Data Loggers

In 2006, with help from the Bureau of Reclamation, 3 data loggers were installed, one on West Cache Canal and two on Last Chance Canal Company canals. The data loggers have continued to function properly and will be an important part of the electronic record keeping network in 2007. Cub River Irrigation Company is completing modifications and associated piping to their canal system and an additional data logger will be installed sometime this spring. The Association believes that all canals and river gages should be incorporated into a single real-time network and we will assist in any way we can in cooperation with PacifiCorp, the states and the Compact Commission to make that a reality this year.

Interaction with Pumper Groups

The Association invited the Idaho and Utah Pumper groups to its annual business meeting which was held on April 3, 2007 in Logan. We believe that it is in the best interests of the Association and the Pumper groups to be partners in the Bear River Water Users Association. I believe there is safety in numbers and power in numbers and our hope and our goal is that we resolve any past disputes or issues and move forward to include the pumpers as a viable partner in the Association.

2007 Irrigation Season

As you already know by now, the water supply for 2007, in terms of projected runoff, may approach near record lows in the weeks and months ahead. The March snowpack in the Bear river Basin decreased by 29%, rather than increasing during a normal March. Unless the weather pattern changes, Outlet Canal releases could start very soon. Keep in mind that the earliest Outlet Canal release dates occurred on April 24, 1992 and April 25, 1977, respectively. In reviewing the other dry years since 1977, beginning release dates occurred generally from early to mid-May. In many of the past dry years, we were lucky in some respects because the basin experienced abundant rainstorms in May or in September which either postponed Outlet releases or curtailed releases in September. Fortunately, the 2006 unused allocation of about 160,000 acre feet which was conserved for lake recovery allows for the allocation of 218,000 in 2007. Still, all water users and administrating agencies must work closely in order to survive this irrigation season. There may be difficulties meeting peak irrigation demands later in the season due to the physical limitations of the Lifton facilities combined with the projected low natural flows throughout the system. So the Association and PacifiCorp need to plan and be ready to address these types of problems in the months ahead. All water users also need to do their part to help PacifiCorp minimize system losses which is storage water flows below Cutler Dam. In summary, this will be a difficult year but by working together, hopefully operating and delivery problems will be minimized through conservation and cooperation.