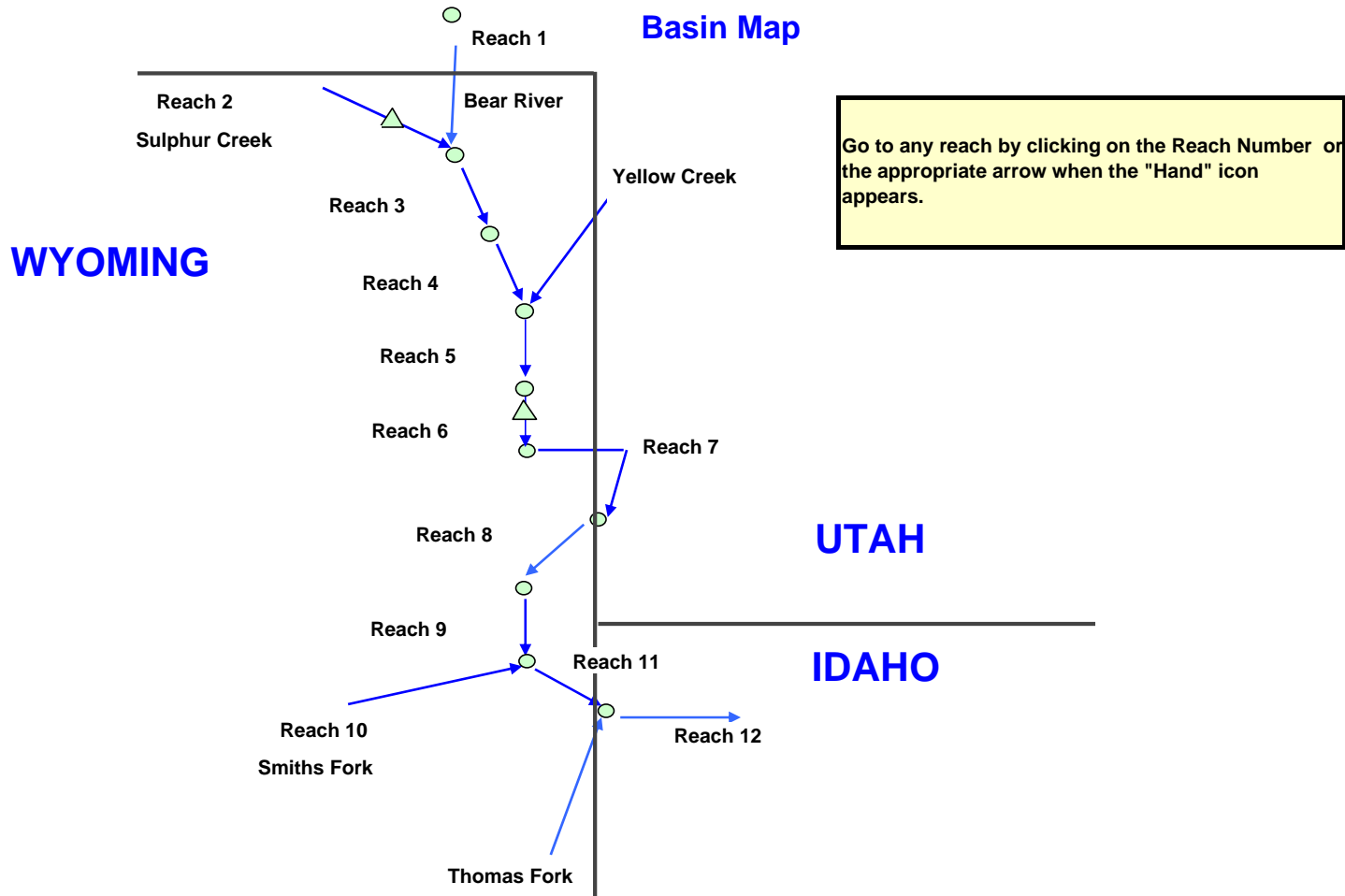


APPENDIX B

BEAR RIVER NORMAL YEAR MODEL OUTPUT

Bear River Spreadsheet Model
Normal Year Conditions



**Bear River Spreadsheet Model
Normal Year Conditions**

Master List of Node Numbers and their Names

Node 1.00	USGS 10011500: Bear River near UT-WY State Line
Node 1.01	Lannon & Lone Mountain
Node 1.02	Hilliard West Side
Node 1.03	Bear Canal
Node 1.04	Crown & Pine Grove
Node 1.05	McGraw & Big Bend
Node 1.06	Lewis
Node 1.07	Meyers No. 2
Node 1.08	Meyers No. 1
Node 1.09	Meyers Irrigation
Node 1.10	Evanston Pipeline
Node 1.11	Booth
Node 1.12	Anel
Node 1.13	Evanston Water Supply
Node 1.15	AggDiv BR-1
Node 1.18	Confluence Mill Cr.
Node 2.00	USGS 10015700: Sulphur Cr. ab Res.BI.La Chapelle Cr.Nr.Evanston,WY
Node 2.01	AggDiv SC-1/Broadbent
Node 2.02	Sulphur Creek Reservoir
Node 2.03	AggDiv SC-2
Node 3.00	Confluence Sulphur Creek / Bear River
Node 3.01	Evanston Water Ditch
Node 3.02	Rocky Mtn & Blyth
Node 4.00	USGS 10016900: Bear R. at Evanston, WY
Node 4.01	John Simms
Node 4.02	S P Ramsey
Node 4.03	AggDiv BR-2
Node 5.00	Confluence Yellow Creek / Bear River
Node 5.01	Chapman Canal
Node 5.02	Morris Bros (Lower)
Node 5.03	AggDiv BR-3
Node 5.04	Tunnel
Node 6.00	USGS 10020100: Bear R. ab res. nr Woodruff, UT

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 6.01 Woodruff Narrows Reservoir
Node 7.00 USGS 10020300: Bear R. bel res. nr Woodruff, UT
Node 7.01 Francis Lee
Node 7.02 Bear River Canal
Node 7.03 Aggregate Utah Diversions
Node 7.04 Partial Returns from Aggregate Utah Diversions
Node 8.00 USGS 10026500: Bear R. nr Randolph, UT
Node 8.01 Pixley Dam
Node 8.02 BQ Dam
Node 9.00 USGS 10028500: Bear R. bel Pixley Dam, near Cokeville, WY
Node 9.01 Confluence Smiths Fork / Bear
Node 9.02 AggDiv BR-4
Node 10.01 USGS 10032000: Smiths Fork nr Border, WY
Node 10.02 Button Flat
Node 10.03 Emelle
Node 10.04 Cooper
Node 10.05 Covey
Node 10.06 VH Canal
Node 10.07 Goodell
Node 10.08 Whites Water
Node 10.09 S Branch Irrigating
Node 10.10 AggDiv SF-1
Node 11.00 USGS 10038000: Bear R. bel Smiths Fork, nr Cokeville, WY
Node 11.01 AggDiv BR-5
Node 11.02 Alonzo F. Sights
Node 11.03 Oscar E. Snyder
Node 11.04 Cook Brothers
Node 12.00 USGS 10039500: Bear R. at Border, WY
Node 12.01 Confluence Thomas Fork
Node 12.02 Aggregate Idaho Diversions
Node 12.03 Rainbow Inlet
Node 12.04 Stewart Dam

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Insert new nodes

**Bear River Spreadsheet Model
Normal Year Conditions**

Return to Start

HELP with
NODE Tables

Reach 2

[Reach 1: Wyoming/Utah Stateline to Confluence with Sulphur Creek](#)

Node 1.00 USGS 10011500: Bear River near UT-WY State Line

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow To This Node												
Node 1.00 Gage Inflow	2,743	2,372	2,931	7,026	37,050	54,949	20,000	6,311	5,701	4,495	3,630	3,056
Node 1.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
Reach 1, 2 & Ungaged Gains	1,049	1,388	6,272	11,859	14,834	7,286	2,335	0	0	0	415	908
Node 1.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.00 Inflow	3,792	3,760	9,203	18,885	51,884	62,236	22,335	6,311	5,701	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.00 NET Flow (In - Out)	3,792	3,760	9,203	18,885	51,884	62,236	22,335	6,311	5,701	4,495	4,045	3,964

Node 1.01 Lannon & Lone Mountain

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow To This Node												
Node 1.01 Node Inflow	3,792	3,760	9,203	18,885	51,884	62,236	22,335	6,311	5,701	4,495	4,045	3,964
Node 1.01 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.01 Inflow	3,792	3,760	9,203	18,885	51,884	62,236	22,335	6,311	5,701	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.01 Diversions	0	0	0	0	633	1,087	922	450	502	0	0	0
Total Node 1.01 Outflow	0	0	0	0	633	1,087	922	450	502	0	0	0
Node 1.01 NET Flow (In - Out)	3,792	3,760	9,203	18,885	51,251	61,149	21,413	5,861	5,199	4,495	4,045	3,964

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.02 Hilliard West Side

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.02 Node Inflow	3,792	3,760	9,203	18,885	51,251	61,149	21,413	5,861	5,199	4,495	4,045	3,964
Node 1.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.02 Inflow	3,792	3,760	9,203	18,885	51,251	61,149	21,413	5,861	5,199	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.02 Diversions	0	0	0	0	244	1,467	1,698	393	701	0	0	0
Total Node 1.02 Outflow	0	0	0	0	244	1,467	1,698	393	701	0	0	0
Node 1.02 NET Flow (In - Out)	3,792	3,760	9,203	18,885	51,007	59,682	19,715	5,468	4,498	4,495	4,045	3,964

Node 1.03 Bear Canal

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.03 Node Inflow	3,792	3,760	9,203	18,885	51,007	59,682	19,715	5,468	4,498	4,495	4,045	3,964
Node 1.03 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.03 Inflow	3,792	3,760	9,203	18,885	51,007	59,682	19,715	5,468	4,498	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.03 Diversions	0	0	0	0	565	3,712	3,112	715	1,068	0	0	0
Total Node 1.03 Outflow	0	0	0	0	565	3,712	3,112	715	1,068	0	0	0
Node 1.03 NET Flow (In - Out)	3,792	3,760	9,203	18,885	50,442	55,970	16,603	4,753	3,430	4,495	4,045	3,964

Node 1.04 Crown & Pine Grove

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.04 Node Inflow	3,792	3,760	9,203	18,885	50,442	55,970	16,603	4,753	3,430	4,495	4,045	3,964
Node 1.04 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.04 Inflow	3,792	3,760	9,203	18,885	50,442	55,970	16,603	4,753	3,430	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.04 Diversions	0	0	0	0	438	1,571	1,375	605	456	0	0	0
Total Node 1.04 Outflow	0	0	0	0	438	1,571	1,375	605	456	0	0	0
Node 1.04 NET Flow (In - Out)	3,792	3,760	9,203	18,885	50,004	54,399	15,228	4,148	2,975	4,495	4,045	3,964

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.05 McGraw & Big Bend

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.05 Node Inflow	3,792	3,760	9,203	18,885	50,004	54,399	15,228	4,148	2,975	4,495	4,045	3,964
Node 1.05 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.05 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.05 Inflow	3,792	3,760	9,203	18,885	50,004	54,399	15,228	4,148	2,975	4,495	4,045	3,964
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.05 Diversions	0	0	0	0	999	1,775	931	648	397	0	0	0
Total Node 1.05 Outflow	0	0	0	0	999	1,775	931	648	397	0	0	0
Node 1.05 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,005	52,624	14,297	3,500	2,578	4,495	4,045	3,964

Node 1.06 Lewis

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.06 Node Inflow	3,792	3,760	9,203	18,885	49,005	52,624	14,297	3,500	2,578	4,495	4,045	3,964
Node 1.06 Irrigation Returns	0	0	0	0	617	1,384	1,202	882	593	193	63	11
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.06 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.06 Inflow	3,792	3,760	9,203	18,885	49,622	54,008	15,499	4,382	3,171	4,688	4,108	3,975
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.06 Diversions	0	0	0	0	92	354	442	287	139	0	0	0
Total Node 1.06 Outflow	0	0	0	0	92	354	442	287	139	0	0	0
Node 1.06 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,530	53,654	15,057	4,095	3,032	4,688	4,108	3,975

Node 1.07 Meyers No. 2

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.07 Node Inflow	3,792	3,760	9,203	18,885	49,530	53,654	15,057	4,095	3,032	4,688	4,108	3,975
Node 1.07 Irrigation Returns	0	0	0	0	112	433	482	312	211	55	17	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.07 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.07 Inflow	3,792	3,760	9,203	18,885	49,642	54,088	15,538	4,407	3,242	4,743	4,125	3,975
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.07 Diversions	0	0	0	0	35	185	363	333	195	0	0	0
Total Node 1.07 Outflow	0	0	0	0	35	185	363	333	195	0	0	0
Node 1.07 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,606	53,903	15,175	4,074	3,048	4,743	4,125	3,975

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.18 Confluence Mill Cr.

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.18 Node Inflow	3,792	3,760	9,203	18,885	49,606	53,903	15,175	4,074	3,048	4,743	4,125	3,975
Node 1.18 Irrigation Returns	0	0	0	0	222	585	675	514	426	177	71	26
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.18 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.18 Inflow	3,792	3,760	9,203	18,885	49,828	54,488	15,850	4,588	3,474	4,920	4,196	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.18 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.18 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.18 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,828	54,488	15,850	4,588	3,474	4,920	4,196	4,001

Node 1.08 Meyers No. 1

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.08 Node Inflow	3,792	3,760	9,203	18,885	49,828	54,488	15,850	4,588	3,474	4,920	4,196	4,001
Node 1.08 Irrigation Returns	0	0	0	0	63	286	488	464	314	92	24	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.08 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.08 Inflow	3,792	3,760	9,203	18,885	49,892	54,774	16,338	5,052	3,788	5,013	4,220	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.08 Diversions	0	0	0	0	72	236	310	221	74	0	0	0
Total Node 1.08 Outflow	0	0	0	0	72	236	310	221	74	0	0	0
Node 1.08 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,820	54,538	16,028	4,831	3,714	5,013	4,220	4,001

Node 1.09 Meyers Irrigation

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.09 Node Inflow	3,792	3,760	9,203	18,885	49,820	54,538	16,028	4,831	3,714	5,013	4,220	4,001
Node 1.09 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.09 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.09 Inflow	3,792	3,760	9,203	18,885	49,820	54,538	16,028	4,831	3,714	5,013	4,220	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.09 Diversions	0	0	0	0	80	336	297	206	92	0	0	0
Total Node 1.09 Outflow	0	0	0	0	80	336	297	206	92	0	0	0
Node 1.09 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,739	54,202	15,731	4,625	3,622	5,013	4,220	4,001

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.10 Evanston Pipeline

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.10 Node Inflow	3,792	3,760	9,203	18,885	49,739	54,202	15,731	4,625	3,622	5,013	4,220	4,001
Node 1.10 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.10 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.10 Inflow	3,792	3,760	9,203	18,885	49,739	54,202	15,731	4,625	3,622	5,013	4,220	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.10 Diversions	0	0	0	0	342	519	719	652	464	0	0	0
Total Node 1.10 Outflow	0	0	0	0	342	519	719	652	464	0	0	0
Node 1.10 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,398	53,683	15,012	3,973	3,158	5,013	4,220	4,001

Node 1.11 Booth

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.11 Node Inflow	3,792	3,760	9,203	18,885	49,398	53,683	15,012	3,973	3,158	5,013	4,220	4,001
Node 1.11 Irrigation Returns	0	0	0	0	18	65	99	88	46	13	3	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.11 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.11 Inflow	3,792	3,760	9,203	18,885	49,416	53,749	15,111	4,061	3,204	5,026	4,223	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.11 Diversions	0	0	0	0	297	745	766	557	404	0	0	0
Total Node 1.11 Outflow	0	0	0	0	297	745	766	557	404	0	0	0
Node 1.11 NET Flow (In - Out)	3,792	3,760	9,203	18,885	49,119	53,004	14,345	3,504	2,800	5,026	4,223	4,001

Node 1.12 Anel

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.12 Node Inflow	3,792	3,760	9,203	18,885	49,119	53,004	14,345	3,504	2,800	5,026	4,223	4,001
Node 1.12 Irrigation Returns	0	0	0	0	39	176	198	166	95	27	6	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.12 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.12 Inflow	3,792	3,760	9,203	18,885	49,159	53,180	14,543	3,670	2,895	5,053	4,229	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.12 Diversions	0	0	0	0	229	737	347	162	136	0	0	0
Total Node 1.12 Outflow	0	0	0	0	229	737	347	162	136	0	0	0
Node 1.12 NET Flow (In - Out)	3,792	3,760	9,203	18,885	48,930	52,443	14,197	3,508	2,759	5,053	4,229	4,001

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.13 Evanston Water Supply

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.13 Node Inflow	3,792	3,760	9,203	18,885	48,930	52,443	14,197	3,508	2,759	5,053	4,229	4,001
Node 1.13 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.13 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.13 Inflow	3,792	3,760	9,203	18,885	48,930	52,443	14,197	3,508	2,759	5,053	4,229	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.13 Diversions	0	0	0	0	77	372	409	317	166	0	0	0
Total Node 1.13 Outflow	0	0	0	0	77	372	409	317	166	0	0	0
Node 1.13 NET Flow (In - Out)	3,792	3,760	9,203	18,885	48,853	52,071	13,788	3,191	2,592	5,053	4,229	4,001

Node 1.15 AggDiv BR-1

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.15 Node Inflow	3,792	3,760	9,203	18,885	48,853	52,071	13,788	3,191	2,592	5,053	4,229	4,001
Node 1.15 Irrigation Returns	0	0	0	0	112	393	289	179	113	30	9	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.15 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 1.15 Inflow	3,792	3,760	9,203	18,885	48,965	52,465	14,077	3,371	2,706	5,084	4,239	4,001
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.15 Diversions	0	0	0	6	158	564	701	319	81	8	0	0
Total Node 1.15 Outflow	0	0	0	6	158	564	701	319	81	8	0	0
Node 1.15 NET Flow (In - Out)	3,792	3,760	9,203	18,879	48,807	51,901	13,376	3,052	2,625	5,076	4,239	4,001

END OF REACH 1

**Bear River Spreadsheet Model
Normal Year Conditions**

Return to Start **Reach 3** Reach 1

Reach 2: Sulphur Creek: Inflow to Confluence with Bear River

Node 2.00 USGS 10015700: Sulphur Cr. ab Res.BI.La Chapelle Cr.Nr.Evanston,WY												
Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 2.00 Gage Inflow	181	218	765	1,934	2,539	936	257	75	82	129	181	160
Node 2.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 2.00 Inflow	181	218	765	1,934	2,539	936	257	75	82	129	181	160
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 2.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.00 NET Flow (In - Out)	181	218	765	1,934	2,539	936	257	75	82	129	181	160

Node 2.01 AggDiv SC-1/Broadbent

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 2.01 Node Inflow	181	218	765	1,934	2,539	936	257	75	82	129	181	160
Node 2.01 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01 Import/Export	0	0	0	0	0	12	12	12	12	0	0	0
Total Node 2.01 Inflow	181	218	765	1,934	2,539	948	269	87	94	129	181	160
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 2.01 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01 NET Flow (In - Out)	181	218	765	1,934	2,539	948	269	87	94	129	181	160

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 2.02 Sulphur Creek Reservoir

Reservoir Node

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow To This Node												
Node 2.02 Node Inflow	181	218	765	1,934	2,539	948	269	87	94	129	181	160
Node 2.02 Irrigation Returns	0	0	0	0	227	1,554	2,179	1,494	1,389	636	221	105
na Ungaged Gains/Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 2.02 Inflow	181	218	765	1,934	2,766	2,503	2,448	1,581	1,483	765	402	265
Outflow from Reservoir												
Node 2.02 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02 Historic Average Release	344	422	995	2,682	4,854	2,976	1,280	1,559	1,177	670	532	308
Node 2.02 Reservoir Evaporation	59	59	72	97	130	189	219	197	139	85	65	75
Reservoir Node 2.02 Total Outflow	403	481	1,067	2,779	4,984	3,165	1,499	1,756	1,317	755	597	383
Calculation of Reservoir End-of-Month Contents												
Change in Storage	(222)	(263)	(302)	(845)	(2,218)	(662)	950	(176)	166	9	(195)	(118)
Starting End-of-Month Contents	15,000											
Max Storage Capacity						19,774						
Inactive Storage Pool										486		
EOM Content (w/o max capacity limitation)	14,778	14,515	14,213	13,368	11,150	10,488	11,438	11,262	11,428	11,438	11,243	11,125
Node 2.02 Actual Release	344	422	995	2,682	4,854	2,976	1,280	1,559	1,177	670	532	308
Node 2.02 Spill	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02 End-of-Month Contents	14,778	14,515	14,213	13,368	11,150	10,488	11,438	11,262	11,428	11,438	11,243	11,125
Node 2.02 NET Flow (In - Out)	344	422	995	2,682	4,854	2,976	1,280	1,559	1,177	670	532	308

Node 2.03 AggDiv SC-2

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow To This Node												
Node 2.03 Node Inflow	344	422	995	2,682	4,854	2,976	1,280	1,559	1,177	670	532	308
Node 2.03 Irrigation Returns	0	0	0	0	106	689	901	633	530	227	75	33
Reach 1, 2 Ungaged Gains	32	43	194	367	459	225	72	0	0	0	13	28
Node 2.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 2.03 Inflow	376	465	1,189	3,049	5,420	3,890	2,253	2,193	1,707	898	620	370
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.03 Diversions	0	0	0	18	457	1,627	2,022	921	235	23	0	0
Total Node 2.03 Outflow	0	0	0	18	457	1,627	2,022	921	235	23	0	0
Node 2.03 NET Flow (In - Out)	376	465	1,189	3,031	4,963	2,263	230	1,272	1,472	875	620	370

END OF REACH 2

**Bear River Spreadsheet Model
Normal Year Conditions**

Return to Start **Reach 4** Reach 2

**Reach 3: Confluence of Bear River / Sulphur Creek to USGS Gage
10016900 (Bear River at Evanston, WY)**

Node 3.00 Confluence Sulphur Creek / Bear River

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 3.00 Node Inflow	3,792	3,760	9,203	18,879	48,807	51,901	13,376	3,052	2,625	5,076	4,239	4,001
Node 3.00 Inflow from Sulphur Creek	376	465	1,189	3,031	4,963	2,263	230	1,272	1,472	875	620	370
Node 3.00 Irrigation Returns	0	0	0	11	287	1,095	1,588	1,077	490	138	25	2
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 3.00 Inflow	4,168	4,225	10,391	21,921	54,057	55,258	15,195	5,401	4,586	6,088	4,883	4,373
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 3.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.00 NET Flow (In - Out)	4,168	4,225	10,391	21,921	54,057	55,258	15,195	5,401	4,586	6,088	4,883	4,373

Node 3.01 Evanston Water Ditch

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 3.01 Node Inflow	4,168	4,225	10,391	21,921	54,057	55,258	15,195	5,401	4,586	6,088	4,883	4,373
Node 3.01 Irrigation Returns	0	0	0	0	152	424	522	451	344	100	30	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 3.01 Inflow	4,168	4,225	10,391	21,921	54,209	55,682	15,716	5,851	4,930	6,188	4,913	4,373
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.01 Diversions	0	0	0	0	213	1,165	1,077	884	351	0	0	0
Total Node 3.01 Outflow	0	0	0	0	213	1,165	1,077	884	351	0	0	0
Node 3.01 NET Flow (In - Out)	4,168	4,225	10,391	21,921	53,996	54,517	14,639	4,967	4,580	6,188	4,913	4,373

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 3.02 Rocky Mtn & Blyth

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 3.02 Node Inflow	4,168	4,225	10,391	21,921	53,996	54,517	14,639	4,967	4,580	6,188	4,913	4,373
Node 3.02 Irrigation Returns	0	0	0	0	115	650	780	733	420	125	29	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 3.02 Inflow	4,168	4,225	10,391	21,921	54,111	55,167	15,419	5,700	4,999	6,313	4,941	4,373
Outflow From This Node												
Reach 1, 2 i Ungaged Losses	0	0	0	0	0	0	0	2,353	1,408	1,436	0	0
Node 3.02 Diversions	0	0	0	0	505	836	554	296	288	0	0	0
Total Node 3.02 Outflow	0	0	0	0	505	836	554	2,649	1,696	1,436	0	0
Node 3.02 NET Flow (In - Out)	4,168	4,225	10,391	21,921	53,606	54,331	14,865	3,051	3,304	4,877	4,941	4,373

END OF REACH 3

**Bear River Spreadsheet Model
Normal Year Conditions**

**Reach 4: USGS Gage 10016900 (Bear River at Evanston, WY) to
Confluence of Bear River and Yellow Creek**

Node 4.00 USGS 10016900: Bear R. at Evanston, WY

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 4.00 Node Inflow	4,168	4,225	10,391	21,921	53,606	54,331	14,865	3,051	3,304	4,877	4,941	4,373
Node 4.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
reach 4 & 5 Ungaged Gains	507	528	1,413	1,287	4,862	5,509	2,351	0	0	169	240	410
Node 4.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 4.00 Inflow	4,675	4,753	11,805	23,207	58,469	59,841	17,216	3,051	3,304	5,046	5,182	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 4.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.00 NET Flow (In - Out)	4,675	4,753	11,805	23,207	58,469	59,841	17,216	3,051	3,304	5,046	5,182	4,783

Node 4.01 John Simms

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 4.01 Node Inflow	4,675	4,753	11,805	23,207	58,469	59,841	17,216	3,051	3,304	5,046	5,182	4,783
Node 4.01 Irrigation Returns	0	0	0	0	178	408	406	304	222	63	19	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 4.01 Inflow	4,675	4,753	11,805	23,207	58,647	60,249	17,622	3,356	3,526	5,109	5,201	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.01 Diversions	0	0	0	0	599	990	546	478	451	0	0	0
Total Node 4.01 Outflow	0	0	0	0	599	990	546	478	451	0	0	0
Node 4.01 NET Flow (In - Out)	4,675	4,753	11,805	23,207	58,048	59,259	17,075	2,878	3,075	5,109	5,201	4,783

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 4.02 S P Ramsey

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 4.02 Node Inflow	4,675	4,753	11,805	23,207	58,048	59,259	17,075	2,878	3,075	5,109	5,201	4,783
Node 4.02 Irrigation Returns	0	0	0	0	202	392	321	251	210	61	20	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 4.02 Inflow	4,675	4,753	11,805	23,207	58,250	59,651	17,397	3,129	3,285	5,170	5,220	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.02 Diversions	0	0	0	0	465	1,127	662	406	430	0	0	0
Total Node 4.02 Outflow	0	0	0	0	465	1,127	662	406	430	0	0	0
Node 4.02 NET Flow (In - Out)	4,675	4,753	11,805	23,207	57,785	58,523	16,735	2,723	2,855	5,170	5,220	4,783

Node 4.03 AggDiv BR-2

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 4.03 Node Inflow	4,675	4,753	11,805	23,207	57,785	58,523	16,735	2,723	2,855	5,170	5,220	4,783
Node 4.03 Irrigation Returns	0	0	0	0	241	551	447	348	297	86	29	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 4.03 Inflow	4,675	4,753	11,805	23,207	58,027	59,074	17,182	3,071	3,152	5,255	5,249	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.03 Diversions	0	0	0	9	223	796	990	451	115	11	0	0
Total Node 4.03 Outflow	0	0	0	9	223	796	990	451	115	11	0	0
Node 4.03 NET Flow (In - Out)	4,675	4,753	11,805	23,199	57,803	58,278	16,192	2,620	3,037	5,244	5,249	4,783

END OF REACH 4

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 5.00 Confluence Yellow Creek / Bear River

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.00 Node Inflow	4,675	4,753	11,805	23,199	57,803	58,278	16,192	2,620	3,037	5,244	5,249	4,783
Node 5.00 Irrigation Returns	0	0	0	0	137	207	288	261	186	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.00 Inflow	4,675	4,753	11,805	23,199	57,940	58,485	16,480	2,881	3,223	5,244	5,249	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.00 NET Flow (In - Out)	4,675	4,753	11,805	23,199	57,940	58,485	16,480	2,881	3,223	5,244	5,249	4,783

Node 5.01 Chapman Canal

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.01 Node Inflow	4,675	4,753	11,805	23,199	57,940	58,485	16,480	2,881	3,223	5,244	5,249	4,783
Node 5.01 Irrigation Returns	0	0	0	4	212	689	820	566	326	92	23	1
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.01 Inflow	4,675	4,753	11,805	23,203	58,152	59,175	17,300	3,447	3,549	5,336	5,272	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.01 Diversions	0	0	0	0	2,605	4,020	2,093	798	701	0	0	0
Total Node 5.01 Outflow	0	0	0	0	2,605	4,020	2,093	798	701	0	0	0
Node 5.01 NET Flow (In - Out)	4,675	4,753	11,805	23,203	55,547	55,154	15,206	2,650	2,847	5,336	5,272	4,783

Node 5.02 Morris Bros (Lower)

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.02 Node Inflow	4,675	4,753	11,805	23,203	55,547	55,154	15,206	2,650	2,847	5,336	5,272	4,783
Node 5.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.02 Inflow	4,675	4,753	11,805	23,203	55,547	55,154	15,206	2,650	2,847	5,336	5,272	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.02 Diversions	0	0	0	0	152	253	87	57	59	0	0	0
Total Node 5.02 Outflow	0	0	0	0	152	253	87	57	59	0	0	0
Node 5.02 NET Flow (In - Out)	4,675	4,753	11,805	23,203	55,395	54,901	15,119	2,593	2,789	5,336	5,272	4,783

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 5.03 AggDiv BR-3

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.03 Node Inflow	4,675	4,753	11,805	23,203	55,395	54,901	15,119	2,593	2,789	5,336	5,272	4,783
Node 5.03 Irrigation Returns	0	0	0	0	1,351	2,474	1,871	1,022	639	164	52	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.03 Inflow	4,675	4,753	11,805	23,203	56,747	57,376	16,990	3,615	3,428	5,500	5,325	4,783
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.03 Diversions	0	0	0	4	101	359	446	203	52	6	0	0
Total Node 5.03 Outflow	0	0	0	4	101	359	446	203	52	6	0	0
Node 5.03 NET Flow (In - Out)	4,675	4,753	11,805	23,199	56,646	57,017	16,545	3,412	3,376	5,494	5,325	4,783

Node 5.04 Tunnel

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.04 Node Inflow	4,675	4,753	11,805	23,199	56,646	57,017	16,545	3,412	3,376	5,494	5,325	4,783
Node 5.04 Irrigation Returns	0	0	0	2	47	179	260	176	80	23	4	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 5.04 Inflow	4,675	4,753	11,805	23,201	56,693	57,196	16,804	3,589	3,456	5,517	5,329	4,784
Outflow From This Node												
reach 4 & 5 Ungaged Losses	0	0	0	0	0	0	0	725	307	0	0	0
Node 5.04 Diversions	0	0	0	0	557	1,602	552	216	194	0	0	0
Total Node 5.04 Outflow	0	0	0	0	557	1,602	552	941	501	0	0	0
Node 5.04 NET Flow (In - Out)	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784

END OF REACH 5

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 6: USGS Gage 10020100 (Bear River above Reservoir, near Woodruff, UT) to USGS Gage 10020300 (Bear River below Reservoir, near Woodruff, UT)

Node 6.00 USGS 10020100: Bear R. ab res. nr Woodruff, UT

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 6.00 Node Inflow	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784
Node 6.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
Reach 6 Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 6.00 Inflow	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 6.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.00 NET Flow (In - Out)	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784

Node 6.01 Woodruff Narrows Reservoir Reservoir Node

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 6.01 Node Inflow	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784
Node 6.01 Irrigation Returns	0	0	0	0	297	882	545	307	177	46	15	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 6.01 Inflow	4,675	4,753	11,805	23,201	56,433	56,476	16,798	2,955	3,132	5,564	5,344	4,784
Outflow from Reservoir												
Node 6.01 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01 Historic Average Release	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Node 6.01 Reservoir Evaporation	201	199	246	329	442	642	743	669	473	289	222	255
Reservoir Node 6.01 Total Outflow	3,648	3,743	7,404	20,377	54,114	60,951	22,774	5,040	4,592	4,439	3,801	3,620
Calculation of Reservoir End-of-Month Contents												
Change in Storage	1,027	1,010	4,401	2,824	2,319	(4,475)	(5,977)	(2,085)	(1,460)	1,124	1,543	1,164
Starting End-of-Month Contents	23,000											
Max Storage Capacity						70,349						
Inactive Storage Pool										1,600		
EOM Content (w/o max capacity limitation)	24,027	25,037	29,438	32,262	34,581	30,106	24,129	22,044	20,584	21,709	23,252	24,416
Node 6.01 Actual Release	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Node 6.01 Spill	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01 End-of-Month Contents	24,027	25,037	29,438	32,262	34,581	30,106	24,129	22,044	20,584	21,709	23,252	24,416
Node 6.01 NET Flow (In - Out)	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Measured EOM: Average NormalYear	23,668	25,146	30,360	35,903	38,392	29,897	23,981	21,389	20,007	21,273	22,764	23,722
	359	(109)	(922)	(3,641)	(3,812)	209	148	655	577	436	487	694

END OF REACH 6

**Bear River Spreadsheet Model
Normal Year Conditions**

**Reach 7: USGS Gage 10020300 (Bear River below Reservoir, near Woodruff, UT) to USGS
Gage 10026500 (Bear River near Randolph, UT)**

Node 7.00 USGS 10020300: Bear R. bel res. nr Woodruff, UT

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.00 Node Inflow	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Node 7.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
Reach 7 Ungaged Gains	3,366	3,922	9,805	8,182	24,962	41,475	22,420	4,227	5,210	3,023	4,106	3,475
Node 7.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.00 Inflow	6,813	7,466	16,963	28,230	78,635	101,784	44,452	8,598	9,329	7,173	7,685	6,840
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.00 NET Flow (In - Out)	6,813	7,466	16,963	28,230	78,635	101,784	44,452	8,598	9,329	7,173	7,685	6,840

Node 7.03 Aggregate Utah Diversions

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.03 Node Inflow	6,813	7,466	16,963	28,230	78,635	101,784	44,452	8,598	9,329	7,173	7,685	6,840
Node 7.03 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.03 Inflow	6,813	7,466	16,963	28,230	78,635	101,784	44,452	8,598	9,329	7,173	7,685	6,840
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.03 Diversions	0	0	0	0	34,210	60,344	27,279	3,794	5,317	0	0	0
Total Node 7.03 Outflow	0	0	0	0	34,210	60,344	27,279	3,794	5,317	0	0	0
Node 7.03 NET Flow (In - Out)	6,813	7,466	16,963	28,230	44,425	41,440	17,172	4,804	4,012	7,173	7,685	6,840

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 7.01 Francis Lee

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.01 Node Inflow	6,813	7,466	16,963	28,230	44,425	41,440	17,172	4,804	4,012	7,173	7,685	6,840
Node 7.01 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.01 Inflow	6,813	7,466	16,963	28,230	44,425	41,440	17,172	4,804	4,012	7,173	7,685	6,840
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01 Diversions	0	0	0	0	1,524	2,999	1,484	544	436	0	0	0
Total Node 7.01 Outflow	0	0	0	0	1,524	2,999	1,484	544	436	0	0	0
Node 7.01 NET Flow (In - Out)	6,813	7,466	16,963	28,230	42,901	38,441	15,689	4,259	3,577	7,173	7,685	6,840

Node 7.02 Bear River Canal

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.02 Node Inflow	6,813	7,466	16,963	28,230	42,901	38,441	15,689	4,259	3,577	7,173	7,685	6,840
Node 7.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.02 Inflow	6,813	7,466	16,963	28,230	42,901	38,441	15,689	4,259	3,577	7,173	7,685	6,840
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.02 Diversions	0	0	0	0	2,424	4,872	1,803	295	487	0	0	0
Total Node 7.02 Outflow	0	0	0	0	2,424	4,872	1,803	295	487	0	0	0
Node 7.02 NET Flow (In - Out)	6,813	7,466	16,963	28,230	40,477	33,570	13,886	3,964	3,090	7,173	7,685	6,840

Node 7.04 Partial Returns from Aggregate Utah Diversions

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.04 Node Inflow	6,813	7,466	16,963	28,230	40,477	33,570	13,886	3,964	3,090	7,173	7,685	6,840
Node 7.04 Irrigation Returns	0	0	0	0	5,494	11,838	8,826	4,335	2,549	705	240	61
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.04 Inflow	6,813	7,466	16,963	28,230	45,971	45,408	22,712	8,299	5,639	7,878	7,925	6,901
Outflow From This Node												
Reach 7 Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.04 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 7.04 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.04 NET Flow (In - Out)	6,813	7,466	16,963	28,230	45,971	45,408	22,712	8,299	5,639	7,878	7,925	6,901

END OF REACH 7

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 8: USGS Gage 10026500 (Bear River near Randolph, UT) to USGS Gage 10026500 (Bear River below Pixley Dam, Cokeville, UT)

Node 8.00 USGS 10026500: Bear R. nr Randolph, UT

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 8.00 Node Inflow	6,813	7,466	16,963	28,230	45,971	45,408	22,712	8,299	5,639	7,878	7,925	6,901
Node 8.00 Irrigation Returns reach 8 Ungaged Gains	0	0	0	0	11,734	24,051	16,947	6,931	3,532	707	261	0
Node 8.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 8.00 Inflow	6,813	7,466	16,963	28,230	57,705	69,458	39,659	15,230	9,171	8,585	8,185	6,901
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 8.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.00 NET Flow (In - Out)	6,813	7,466	16,963	28,230	57,705	69,458	39,659	15,230	9,171	8,585	8,185	6,901

Node 8.02 BQ Dam

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 8.02 Node Inflow	6,813	7,466	16,963	28,230	57,705	69,458	39,659	15,230	9,171	8,585	8,185	6,901
Node 8.02 Irrigation Returns na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 8.02 Inflow	6,813	7,466	16,963	28,230	57,705	69,458	39,659	15,230	9,171	8,585	8,185	6,901
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.02 Diversions	0	0	0	0	2,612	6,924	2,411	123	11	0	0	0
Total Node 8.02 Outflow	0	0	0	0	2,612	6,924	2,411	123	11	0	0	0
Node 8.02 NET Flow (In - Out)	6,813	7,466	16,963	28,230	55,092	62,534	37,249	15,107	9,160	8,585	8,185	6,901

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 8.01 Pixley Dam

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 8.01 Node Inflow	6,813	7,466	16,963	28,230	55,092	62,534	37,249	15,107	9,160	8,585	8,185	6,901
Node 8.01 Irrigation Returns	0	0	0	0	2,045	5,262	3,411	1,327	433	60	19	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 8.01 Inflow	6,813	7,466	16,963	28,230	57,137	67,796	40,659	16,434	9,593	8,645	8,205	6,901
Outflow From This Node												
reach 8 Ungaged Losses	2,067	2,630	5,444	9,603	14,650	25,580	14,220	7,373	3,492	2,483	2,273	1,641
Node 8.01 Diversions	0	0	0	0	2,464	4,003	913	24	151	0	0	0
Total Node 8.01 Outflow	2,067	2,630	5,444	9,603	17,115	29,583	15,133	7,396	3,643	2,483	2,273	1,641
Node 8.01 NET Flow (In - Out)	4,745	4,836	11,520	18,627	40,023	38,213	25,526	9,038	5,950	6,162	5,932	5,260

END OF REACH 8

**Bear River Spreadsheet Model
Normal Year Conditions**

**Reach 9: USGS Gage 10028500 (Bear River below Pixley Dam, near Cokeville, WY) to
Confluence of Bear River and Smiths Fork**

Node 9.00 USGS 10028500: Bear R. bel Pixley Dam, near Cokeville, WY

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 9.00 Node Inflow	4,745	4,836	11,520	18,627	40,023	38,213	25,526	9,038	5,950	6,162	5,932	5,260
Node 9.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
Reach 9 & ' Ungaged Gains	1,727	1,909	4,230	8,155	6,212	8,190	4,769	1,927	1,081	1,486	1,842	1,797
Node 9.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 9.00 Inflow	6,472	6,745	15,750	26,782	46,235	46,403	30,295	10,965	7,031	7,648	7,774	7,056
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 9.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.00 NET Flow (In - Out)	6,472	6,745	15,750	26,782	46,235	46,403	30,295	10,965	7,031	7,648	7,774	7,056

Node 9.02 AggDiv BR-4

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 9.02 Node Inflow	6,472	6,745	15,750	26,782	46,235	46,403	30,295	10,965	7,031	7,648	7,774	7,056
Node 9.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 9.02 Inflow	6,472	6,745	15,750	26,782	46,235	46,403	30,295	10,965	7,031	7,648	7,774	7,056
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.02 Diversions	0	0	0	6	375	1,542	1,982	842	200	8	0	0
Total Node 9.02 Outflow	0	0	0	6	375	1,542	1,982	842	200	8	0	0
Node 9.02 NET Flow (In - Out)	6,472	6,745	15,750	26,776	45,860	44,861	28,313	10,123	6,831	7,640	7,774	7,056

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 9.01 Confluence Smiths Fork / Bear

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 9.01 Node Inflow	6,472	6,745	15,750	26,776	45,860	44,861	28,313	10,123	6,831	7,640	7,774	7,056
Node 9.01 Inflow from Smiths Fork	7,177	7,113	12,258	25,619	41,137	43,205	17,926	7,042	6,558	9,070	8,574	7,872
Node 9.01 Irrigation Returns	0	0	0	7	1,568	4,058	3,939	2,255	959	233	45	1
na Ungaged Gains/Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 9.01 Inflow	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929
Outflow From This Node												
Reach 9 & Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 9.01 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01 NET Flow (In - Out)	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929

END OF REACH 9

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 10: Smiths Fork to Confluence with Bear River

Node 10.01 USGS 10032000: Smiths Fork nr Border,WY

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.01 Gage Inflow	3,671	3,237	3,669	9,074	34,070	39,604	20,052	10,016	6,728	5,648	4,668	4,172
Node 10.01 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
reach 9 & 10 Ungaged Gains	3,506	3,876	8,589	16,557	12,613	16,628	9,683	3,912	2,195	3,017	3,739	3,647
Node 10.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.01 Inflow	7,177	7,113	12,258	25,630	46,683	56,232	29,735	13,928	8,923	8,665	8,407	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.01 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.01 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.01 NET Flow (In - Out)	7,177	7,113	12,258	25,630	46,683	56,232	29,735	13,928	8,923	8,665	8,407	7,820

Node 10.02 Button Flat

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.02 Node Inflow	7,177	7,113	12,258	25,630	46,683	56,232	29,735	13,928	8,923	8,665	8,407	7,820
Node 10.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.02 Inflow	7,177	7,113	12,258	25,630	46,683	56,232	29,735	13,928	8,923	8,665	8,407	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.02 Diversions	0	0	0	0	89	186	236	172	71	0	0	0
Total Node 10.02 Outflow	0	0	0	0	89	186	236	172	71	0	0	0
Node 10.02 NET Flow (In - Out)	7,177	7,113	12,258	25,630	46,594	56,045	29,499	13,756	8,852	8,665	8,407	7,820

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 10.03 Emelle

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.03 Node Inflow	7,177	7,113	12,258	25,630	46,594	56,045	29,499	13,756	8,852	8,665	8,407	7,820
Node 10.03 Irrigation Returns	0	0	0	0	40	95	135	119	69	20	5	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.03 Inflow	7,177	7,113	12,258	25,630	46,634	56,140	29,634	13,875	8,921	8,685	8,412	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.03 Diversions	0	0	0	0	116	842	817	606	54	0	0	0
Total Node 10.03 Outflow	0	0	0	0	116	842	817	606	54	0	0	0
Node 10.03 NET Flow (In - Out)	7,177	7,113	12,258	25,630	46,518	55,298	28,817	13,269	8,867	8,685	8,412	7,820

Node 10.04 Cooper

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.04 Node Inflow	7,177	7,113	12,258	25,630	46,518	55,298	28,817	13,269	8,867	8,685	8,412	7,820
Node 10.04 Irrigation Returns	0	0	0	0	26	196	241	215	77	23	2	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.04 Inflow	7,177	7,113	12,258	25,630	46,544	55,494	29,058	13,484	8,944	8,707	8,414	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.04 Diversions	0	0	0	0	277	472	295	73	26	0	0	0
Total Node 10.04 Outflow	0	0	0	0	277	472	295	73	26	0	0	0
Node 10.04 NET Flow (In - Out)	7,177	7,113	12,258	25,630	46,267	55,022	28,763	13,411	8,918	8,707	8,414	7,820

Node 10.05 Covey

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.05 Node Inflow	7,177	7,113	12,258	25,630	46,267	55,022	28,763	13,411	8,918	8,707	8,414	7,820
Node 10.05 Irrigation Returns	0	0	0	0	150	443	451	316	117	31	3	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.05 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.05 Inflow	7,177	7,113	12,258	25,630	46,417	55,465	29,214	13,727	9,035	8,738	8,417	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.05 Diversions	0	0	0	0	2,518	5,914	5,306	3,122	1,236	0	0	0
Total Node 10.05 Outflow	0	0	0	0	2,518	5,914	5,306	3,122	1,236	0	0	0
Node 10.05 NET Flow (In - Out)	7,177	7,113	12,258	25,630	43,899	49,551	23,908	10,605	7,799	8,738	8,417	7,820

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 10.06 VH Canal

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.06 Node Inflow	7,177	7,113	12,258	25,630	43,899	49,551	23,908	10,605	7,799	8,738	8,417	7,820
Node 10.06 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.06 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.06 Inflow	7,177	7,113	12,258	25,630	43,899	49,551	23,908	10,605	7,799	8,738	8,417	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.06 Diversions	0	0	0	0	425	689	660	654	491	0	0	0
Total Node 10.06 Outflow	0	0	0	0	425	689	660	654	491	0	0	0
Node 10.06 NET Flow (In - Out)	7,177	7,113	12,258	25,630	43,474	48,861	23,248	9,951	7,308	8,738	8,417	7,820

Node 10.07 Goodell

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.07 Node Inflow	7,177	7,113	12,258	25,630	43,474	48,861	23,248	9,951	7,308	8,738	8,417	7,820
Node 10.07 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.07 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.07 Inflow	7,177	7,113	12,258	25,630	43,474	48,861	23,248	9,951	7,308	8,738	8,417	7,820
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.07 Diversions	0	0	0	0	238	418	478	416	329	0	0	0
Total Node 10.07 Outflow	0	0	0	0	238	418	478	416	329	0	0	0
Node 10.07 NET Flow (In - Out)	7,177	7,113	12,258	25,630	43,236	48,443	22,771	9,535	6,978	8,738	8,417	7,820

Node 10.08 Whites Water

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.08 Node Inflow	7,177	7,113	12,258	25,630	43,236	48,443	22,771	9,535	6,978	8,738	8,417	7,820
Node 10.08 Irrigation Returns	0	0	0	0	264	632	816	839	703	346	157	52
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.08 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.08 Inflow	7,177	7,113	12,258	25,630	43,500	49,075	23,587	10,374	7,682	9,084	8,574	7,872
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.08 Diversions	0	0	0	0	830	1,865	1,427	1,215	520	0	0	0
Total Node 10.08 Outflow	0	0	0	0	830	1,865	1,427	1,215	520	0	0	0
Node 10.08 NET Flow (In - Out)	7,177	7,113	12,258	25,630	42,670	47,210	22,160	9,159	7,162	9,084	8,574	7,872

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 10.09 S Branch Irrigating

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.09 Node Inflow	7,177	7,113	12,258	25,630	42,670	47,210	22,160	9,159	7,162	9,084	8,574	7,872
Node 10.09 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.09 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.09 Inflow	7,177	7,113	12,258	25,630	42,670	47,210	22,160	9,159	7,162	9,084	8,574	7,872
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.09 Diversions	0	0	0	0	854	1,213	645	592	242	0	0	0
Total Node 10.09 Outflow	0	0	0	0	854	1,213	645	592	242	0	0	0
Node 10.09 NET Flow (In - Out)	7,177	7,113	12,258	25,630	41,816	45,998	21,515	8,567	6,920	9,084	8,574	7,872

Node 10.10 AggDiv SF-1

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.10 Node Inflow	7,177	7,113	12,258	25,630	41,816	45,998	21,515	8,567	6,920	9,084	8,574	7,872
Node 10.10 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.10 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 10.10 Inflow	7,177	7,113	12,258	25,630	41,816	45,998	21,515	8,567	6,920	9,084	8,574	7,872
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.10 Diversions	0	0	0	11	679	2,793	3,589	1,525	362	14	0	0
Total Node 10.10 Outflow	0	0	0	11	679	2,793	3,589	1,525	362	14	0	0
Node 10.10 NET Flow (In - Out)	7,177	7,113	12,258	25,619	41,137	43,205	17,926	7,042	6,558	9,070	8,574	7,872

END OF REACH 10

**Bear River Spreadsheet Model
Normal Year Conditions**

**Reach 11: Confluence of Bear River and Smiths Fork to USGS Gage
10039500 (Bear River at Border, WY)**

Node 11.00 USGS 10038000: Bear R. bel Smiths Fork, nr Cokeville, WY

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.00 Gage Inflow	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929
Node 11.00 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
reach 11 Ungaged Gains	672	515	451	3,199	1,464	1,727	0	0	0	0	137	252
Node 11.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.00 Inflow	14,320	14,374	28,460	55,600	90,030	93,851	50,178	19,419	14,348	16,943	16,530	15,182
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.00 NET Flow (In - Out)	14,320	14,374	28,460	55,600	90,030	93,851	50,178	19,419	14,348	16,943	16,530	15,182

Node 11.01 AggDiv BR-5

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.01 Node Inflow	14,320	14,374	28,460	55,600	90,030	93,851	50,178	19,419	14,348	16,943	16,530	15,182
Node 11.01 Irrigation Returns	0	0	0	0	1,489	3,734	4,166	3,716	2,409	1,022	359	78
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.01 Inflow	14,320	14,374	28,460	55,600	91,518	97,585	54,344	23,135	16,757	17,965	16,889	15,260
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.01 Diversions	0	0	0	7	462	1,902	2,444	1,038	247	10	0	0
Total Node 11.01 Outflow	0	0	0	7	462	1,902	2,444	1,038	247	10	0	0
Node 11.01 NET Flow (In - Out)	14,320	14,374	28,460	55,593	91,056	95,683	51,900	22,096	16,510	17,955	16,889	15,260

Node 11.02 Alonzo F. Sights

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.02 Node Inflow	14,320	14,374	28,460	55,593	91,056	95,683	51,900	22,096	16,510	17,955	16,889	15,260
Node 11.02 Irrigation Returns	0	0	0	1	78	342	513	337	150	38	6	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.02 Inflow	14,320	14,374	28,460	55,594	91,134	96,025	52,413	22,434	16,660	17,994	16,895	15,260
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.02 Diversions	0	0	0	0	647	1,238	770	325	98	0	0	0
Total Node 11.02 Outflow	0	0	0	0	647	1,238	770	325	98	0	0	0
Node 11.02 NET Flow (In - Out)	14,320	14,374	28,460	55,594	90,487	94,786	51,643	22,109	16,562	17,994	16,895	15,260

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 11.03 Oscar E. Snyder

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.03 Node Inflow	14,320	14,374	28,460	55,594	90,487	94,786	51,643	22,109	16,562	17,994	16,895	15,260
Node 11.03 Irrigation Returns	0	0	0	1	214	641	768	489	213	54	9	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.03 Inflow	14,320	14,374	28,460	55,596	90,701	95,427	52,412	22,598	16,775	18,048	16,904	15,260
Outflow From This Node												
NA Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.03 Diversions	0	0	0	0	654	1,593	1,196	347	298	0	0	0
Total Node 11.03 Outflow	0	0	0	0	654	1,593	1,196	347	298	0	0	0
Node 11.03 NET Flow (In - Out)	14,320	14,374	28,460	55,596	90,048	93,834	51,216	22,251	16,477	18,048	16,904	15,260

Node 11.04 Cook Brothers

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.04 Node Inflow	14,320	14,374	28,460	55,596	90,048	93,834	51,216	22,251	16,477	18,048	16,904	15,260
Node 11.04 Irrigation Returns	0	0	0	1	312	843	878	513	257	63	15	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 11.04 Inflow	14,320	14,374	28,460	55,596	90,360	94,678	52,094	22,764	16,735	18,111	16,919	15,260
Outflow From This Node												
reach 11 Ungaged Losses	0	0	0	0	0	0	38	2,367	1,446	820	0	0
Node 11.04 Diversions	0	0	0	0	1,247	3,135	1,514	1,060	1,391	0	0	0
Total Node 11.04 Outflow	0	0	0	0	1,247	3,135	1,552	3,427	2,837	820	0	0
Node 11.04 NET Flow (In - Out)	14,320	14,374	28,460	55,596	89,113	91,543	50,541	19,337	13,898	17,291	16,919	15,260

END OF REACH 11

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 12: Bear River from USGS Gage 10039500 (Bear River at Border, WY) to Stewart Dam, including Rainbow Inlet

Node 12.00 USGS 10039500: Bear R. at Border, WY

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.00 Node Inflow	14,320	14,374	28,460	55,596	89,113	91,543	50,541	19,337	13,898	17,291	16,919	15,260
Node 12.00 Irrigation Returns	0	0	0	0	661	1,840	1,453	1,007	922	259	92	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.00 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.00 Inflow	14,320	14,374	28,460	55,596	89,774	93,383	51,995	20,344	14,819	17,550	17,012	15,260
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.00 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.00 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.00 NET Flow (In - Out)	14,320	14,374	28,460	55,596	89,774	93,383	51,995	20,344	14,819	17,550	17,012	15,260

Node 12.01 Confluence Thomas Fork

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.01 Node Inflow	14,320	14,374	28,460	55,596	89,774	93,383	51,995	20,344	14,819	17,550	17,012	15,260
Node 12.01 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
reach 12 Ungaged Gains	0	0	0	0	3,665	0	0	0	1,122	0	0	0
Node 12.01 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.01 Inflow	14,320	14,374	28,460	55,596	93,439	93,383	51,995	20,344	15,941	17,550	17,012	15,260
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.01 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.01 Outflow	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.01 NET Flow (In - Out)	14,320	14,374	28,460	55,596	93,439	93,383	51,995	20,344	15,941	17,550	17,012	15,260

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 12.02 Aggregate Idaho Diversions

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.02 Node Inflow	14,320	14,374	28,460	55,596	93,439	93,383	51,995	20,344	15,941	17,550	17,012	15,260
Node 12.02 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.02 Inflow	14,320	14,374	28,460	55,596	93,439	93,383	51,995	20,344	15,941	17,550	17,012	15,260
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02 Diversions	0	0	0	0	14,094	27,139	14,878	7,282	6,947	0	0	0
Total Node 12.02 Outflow	0	0	0	0	14,094	27,139	14,878	7,282	6,947	0	0	0
Node 12.02 NET Flow (In - Out)	14,320	14,374	28,460	55,596	79,345	66,243	37,117	13,063	8,994	17,550	17,012	15,260

Node 12.03 Rainbow Inlet

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.03 Node Inflow	14,320	14,374	28,460	55,596	79,345	66,243	37,117	13,063	8,994	17,550	17,012	15,260
Node 12.03 Irrigation Returns	0	0	0	0	3,946	8,727	6,901	4,315	3,123	847	278	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.03 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.03 Inflow	14,320	14,374	28,460	55,596	83,291	74,970	44,018	17,377	12,117	18,397	17,290	15,260
Outflow From This Node												
na Ungaged Losses	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.03 Diversions	11,163	11,530	27,234	52,840	82,646	67,552	39,806	16,195	11,167	15,798	15,436	13,133
Total Node 12.03 Outflow	11,163	11,530	27,234	52,840	82,646	67,552	39,806	16,195	11,167	15,798	15,436	13,133
Node 12.03 NET Flow (In - Out)	3,158	2,844	1,226	2,756	646	7,418	4,212	1,183	949	2,599	1,854	2,127

Node 12.04 Stewart Dam

Inflow To This Node	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.04 Node Inflow	3,158	2,844	1,226	2,756	646	7,418	4,212	1,183	949	2,599	1,854	2,127
Node 12.04 Irrigation Returns	0	0	0	0	0	0	0	0	0	0	0	0
na Ungaged Gains	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.04 Import/Export	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.04 Inflow	3,158	2,844	1,226	2,756	646	7,418	4,212	1,183	949	2,599	1,854	2,127
Outflow From This Node												
reach 12 Ungaged Losses	2,859	2,553	740	2,378	0	4,912	3,207	492	0	1,940	1,341	1,705
Node 12.04 Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Total Node 12.04 Outflow	2,859	2,553	740	2,378	0	4,912	3,207	492	0	1,940	1,341	1,705
Node 12.04 NET Flow (In - Out)	299	291	485	378	646	2,506	1,004	691	949	659	513	422

**Bear River Spreadsheet Model
Normal Year Conditions**

Return to START

View Diversion Data
by NODE

View Diversion Data
by REACH

Historic Diversion Data (Normal Year)

Historic Diversion Data: Monthly Total By Node

Node Number	Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Reach
Node 1.00	USGS 10011500: Bear Riv	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00
Node 1.01	Lannon & Lone Mountain	0	0	0	0	633	1087	922	450	502	0	0	0	3594	1.00
Node 1.02	Hilliard West Side	0	0	0	0	244	1467	1698	393	701	0	0	0	4503	1.00
Node 1.03	Bear Canal	0	0	0	0	565	3712	3112	715	1068	0	0	0	9171	1.00
Node 1.04	Crown & Pine Grove	0	0	0	0	438	1571	1375	605	456	0	0	0	4444	1.00
Node 1.05	McGraw & Big Bend	0	0	0	0	999	1775	931	648	397	0	0	0	4750	1.00
Node 1.06	Lewis	0	0	0	0	92	354	442	287	139	0	0	0	1315	1.00
Node 1.07	Meyers No. 2	0	0	0	0	35	185	363	333	195	0	0	0	1111	1.00
Node 1.08	Meyers No. 1	0	0	0	0	72	236	310	221	74	0	0	0	913	1.00
Node 1.09	Meyers Irrigation	0	0	0	0	80	336	297	206	92	0	0	0	1011	1.00
Node 1.10	Evanston Pipeline	0	0	0	0	342	519	719	652	464	0	0	0	2695	1.00
Node 1.11	Booth	0	0	0	0	297	745	766	557	404	0	0	0	2769	1.00
Node 1.12	Anel	0	0	0	0	229	737	347	162	136	0	0	0	1610	1.00
Node 1.13	Evanston Water Supply	0	0	0	0	77	372	409	317	166	0	0	0	1341	1.00
Node 1.14	Hilliard East	0	0	0	0	34	534	1462	417	477	0	0	0	2923	1.00
Node 1.15	AggDiv BR-1	0	0	0	6	158	564	701	319	81	8	0	0	1837	1.00
Node 1.18	Confluence Mill Cr.	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00
Node 10.00	Quinn Bourne	0	0	0	0	237	446	398	216	75	0	0	0	1371	10.00
Node 10.01	USGS 10032000: Smiths F	0	0	0	0	0	0	0	0	0	0	0	0	0	10.00
Node 10.02	Button Flat	0	0	0	0	89	186	236	172	71	0	0	0	755	10.00
Node 10.03	Emelle	0	0	0	0	116	842	817	606	54	0	0	0	2435	10.00
Node 10.04	Cooper	0	0	0	0	277	472	295	73	26	0	0	0	1143	10.00
Node 10.05	Covey	0	0	0	0	2518	5914	5306	3122	1236	0	0	0	18097	10.00
Node 10.06	VH Canal	0	0	0	0	425	689	660	654	491	0	0	0	2919	10.00
Node 10.07	Goodell	0	0	0	0	238	418	478	416	329	0	0	0	1879	10.00
Node 10.08	Whites Water	0	0	0	0	830	1865	1427	1215	520	0	0	0	5857	10.00
Node 10.09	S Branch Irrigating	0	0	0	0	854	1213	645	592	242	0	0	0	3545	10.00
Node 10.10	AggDiv SF-1	0	0	0	11	679	2793	3589	1525	362	14	0	0	8974	10.00
Node 11.00	USGS 10038000: Bear R. I	0	0	0	0	0	0	0	0	0	0	0	0	0	11.00
Node 11.01	AggDiv BR-5	0	0	0	7	462	1902	2444	1038	247	10	0	0	6110	11.00
Node 11.02	Alonzo F. Sights	0	0	0	0	647	1238	770	325	98	0	0	0	3077	11.00
Node 11.03	Oscar E. Snyder	0	0	0	0	654	1593	1196	347	298	0	0	0	4088	11.00
Node 11.04	Cook Brothers	0	0	0	0	1247	3135	1514	1060	1391	0	0	0	8348	11.00
Node 12.00	USGS 10039500: Bear R. i	0	0	0	0	0	0	0	0	0	0	0	0	0	12.00
Node 12.01	Confluence Thomas Fork	0	0	0	0	0	0	0	0	0	0	0	0	0	12.00
Node 12.02	Aggregate Idaho Diversions	0	0	0	0	14094	27139	14878	7282	6947	0	0	0	70340	12.00
Node 12.03	Rainbow Inlet	11163	11530	27234	52840	82646	67552	39806	16195	11167	15798	15436	13133	364499	12.00
Node 12.04	Stewart Dam													0	12.00

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 2.00	USGS 10015700: Sulphur	0	0	0	0	0	0	0	0	0	0	0	0	2.00
Node 2.01	AggDiv SC-1/Broadbent	0	0	0	0	0	0	0	0	0	0	0	0	2.00
Node 2.02	Sulphur Creek Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	2.00
Node 2.03	AggDiv SC-2	0	0	0	18	457	1627	2022	921	235	23	0	5304	2.00
Node 3.00	Confluence Sulphur Creek /	0	0	0	0	0	0	0	0	0	0	0	0	3.00
Node 3.01	Evanston Water Ditch	0	0	0	0	213	1165	1077	884	351	0	0	3690	3.00
Node 3.02	Rocky Mtn & Blyth	0	0	0	0	505	836	554	296	288	0	0	2479	3.00
Node 4.00	USGS 10016900: Bear R. a	0	0	0	0	0	0	0	0	0	0	0	0	4.00
Node 4.01	John Simms	0	0	0	0	599	990	546	478	451	0	0	3063	4.00
Node 4.02	S P Ramsey	0	0	0	0	465	1127	662	406	430	0	0	3089	4.00
Node 4.03	AggDiv BR-2	0	0	0	9	223	796	990	451	115	11	0	2596	4.00
Node 5.00	Confluence Yellow Creek / I	0	0	0	0	0	0	0	0	0	0	0	0	5.00
** Node 5.01	Chapman Canal	0	0	0	0	2605	4020	2093	798	701	0	0	10217	5.00
Node 5.02	Morris Bros (Lower)	0	0	0	0	152	253	87	57	59	0	0	607	5.00
Node 5.03	AggDiv BR-3	0	0	0	4	101	359	446	203	52	6	0	1169	5.00
Node 5.04	Tunnel	0	0	0	0	557	1602	552	216	194	0	0	3121	5.00
Node 6.00	USGS 10020100: Bear R. i	0	0	0	0	0	0	0	0	0	0	0	0	6.00
Node 6.01	Woodruff Narrows Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	6.00
Node 7.00	USGS 10020300: Bear R. I	0	0	0	0	0	0	0	0	0	0	0	0	7.00
Node 7.01	Francis Lee	0	0	0	0	1524	2999	1484	544	436	0	0	6987	7.00
Node 7.02	Bear River Canal	0	0	0	0	2424	4872	1803	295	487	0	0	9880	7.00
Node 7.03	Aggregate Utah Diversions	0	0	0	0	34210	60344	27279	3794	5317	0	0	130944	7.00
Node 7.04	Partial Returns from Aggrec	0	0	0	0	0	0	0	0	0	0	0	0	7.00
Node 8.00	USGS 10026500: Bear R. i	0	0	0	0	0	0	0	0	0	0	0	0	8.00
Node 8.01	Pixley Dam	0	0	0	0	2464	4003	913	24	151	0	0	7555	8.00
Node 8.02	BQ Dam	0	0	0	0	2612	6924	2411	123	11	0	0	12081	8.00
Node 9.00	USGS 10028500: Bear R. I	0	0	0	0	0	0	0	0	0	0	0	0	9.00
Node 9.01	Confluence Smiths Fork / B	0	0	0	0	0	0	0	0	0	0	0	0	9.00
Node 9.02	AggDiv BR-4	0	0	0	6	375	1542	1982	842	200	8	0	4955	9.00

**Bear River Spreadsheet Model
Normal Year Conditions**

11163 11530 27234 52901 159790 225050 133212 51451 38384 15877 15436 13133 755160.7
Historic Diversion Data: Monthly Total By Reach

Reach Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1.00	0	0	0	6	4295	14192	13854	6282	5350	8	0	0	
2.00	0	0	0	18	457	1627	2022	921	235	23	0	0	
3.00	0	0	0	0	717	2001	1631	1180	639	0	0	0	
4.00	0	0	0	9	1287	2914	2198	1334	996	11	0	0	
5.00	0	0	0	4	3414	6234	3178	1273	1006	6	0	0	
6.00	0	0	0	0	0	0	0	0	0	0	0	0	
7.00	0	0	0	0	38158	68215	30566	4633	6239	0	0	0	
8.00	0	0	0	0	5077	10927	3324	147	162	0	0	0	
9.00	0	0	0	6	375	1542	1982	842	200	8	0	0	
10.00	0	0	0	11	6262	14840	13850	8592	3407	14	0	0	
11.00	0	0	0	7	3009	7868	5924	2770	2035	10	0	0	
12.00	11163	11530	27234	52840	96740	94691	54683	23476	18115	15798	15436	13133	
	11163	11530	27234	52901	159790	225050	133212	51451	38384	15877	15436	13133	755160.7

Bear River Spreadsheet Model
Normal Year Conditions

Irrigation Return Tables

Return to Start	View Individual Nodes
Help with Irrigation Returns	View "Node Totals" Summary Table
View "Reach Totals" Summary Table	

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Irrigation Returns: Node Evaluation

Reach 1 Nodes

Node 1.01		Lannon & Lone Mountain	Efficiency Pattern = 25											
Total Diversions =		0	0	0	0	633	1087	922	450	502	0	0	0	
Total Irrigation Returns =		0	0	0	0	475	815	691	338	376	0	0	0	
TO:	TO:	Percent	Return Pattern = 1											
(Lewis)	Node 1.06	30.0%	0	0	0	0	71	158	186	153	137	64	27	11
(Confluence Mill Cr.)	Node 1.18	70.0%	0	0	0	0	166	368	434	358	320	150	63	26
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	237	526	621	511	458	214	90	38
Node 1.02		Hilliard West Side	Efficiency Pattern = 22											
Total Diversions =		0	0	0	0	244	1467	1698	393	701	0	0	0	
Total Irrigation Returns =		0	0	0	0	191	1144	1325	307	546	0	0	0	
TO:	TO:	Percent	Return Pattern = 1											
(Sulphur Creek Reservoir)	Node 2.02	100.0%	0	0	0	0	95	620	977	675	663	315	113	55
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	95	620	977	675	663	315	113	55
Node 1.03		Bear Canal	Efficiency Pattern = 22											
Total Diversions =		0	0	0	0	565	3712	3112	715	1068	0	0	0	
Total Irrigation Returns =		0	0	0	0	440	2895	2427	558	833	0	0	0	
TO:	TO:	Percent	Return Pattern = 1											
(Sulphur Creek Reservoir)	Node 2.02	60.0%	0	0	0	0	132	935	1202	818	726	321	108	50
(AggDiv SC-2)	Node 2.03	40.0%	0	0	0	0	88	623	801	546	484	214	72	33
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	220	1558	2004	1364	1209	535	181	83

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.04	Crown & Pine Grove		Efficiency Pattern = 27													
	Total Diversions =		0	0	0	0	438	1571	1375	605	456	0	0	0	0	
	Total Irrigation Returns =		0	0	0	0	319	1147	1003	442	333	0	0	0	0	
TQ: (Lewis) (Confluence Mill Cr.) (Meyers No. 2)	TQ:	Percent	Return Pattern = 2													
	Node 1.06	25.0%	0	0	0	0	56	217	241	156	105	28	8	0	0	
	Node 1.18	25.0%	0	0	0	0	56	217	241	156	105	28	8	0	0	
	Node 1.07	50.0%	0	0	0	0	112	433	482	312	211	55	17	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	224	867	964	625	421	111	33	0	0	
Node 1.05	McGraw & Big Bend		Efficiency Pattern = 30													
	Total Diversions =		0	0	0	0	999	1775	931	648	397	0	0	0	0	
	Total Irrigation Returns =		0	0	0	0	700	1242	652	453	278	0	0	0	0	
TQ: (Lewis)	TQ:	Percent	Return Pattern = 2													
	Node 1.06	100.0%	0	0	0	0	490	1010	775	572	350	101	28	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	490	1010	775	572	350	101	28	0	0	
Node 1.06	Lewis		Efficiency Pattern = 30													
	Total Diversions =		0	0	0	0	92	354	442	287	139	0	0	0	0	
	Total Irrigation Returns =		0	0	0	0	64	248	310	201	98	0	0	0	0	
TQ: (Meyers No. 1)	TQ:	Percent	Return Pattern = 2													
	Node 1.08	100.0%	0	0	0	0	45	186	273	227	139	40	10	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	45	186	273	227	139	40	10	0	0	
Node 1.07	Meyers No. 2		Efficiency Pattern = 27													
	Total Diversions =		0	0	0	0	35	185	363	333	195	0	0	0	0	
	Total Irrigation Returns =		0	0	0	0	26	135	265	243	142	0	0	0	0	
TQ: (Meyers No. 1)	TQ:	Percent	Return Pattern = 2													
	Node 1.08	100.0%	0	0	0	0	18	100	215	237	175	53	14	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	18	100	215	237	175	53	14	0	0	

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.18	Confluence Mill Cr.		Efficiency Pattern = 15											
	Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0
	Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.08	Meyers No. 1		Efficiency Pattern = 27											
	Total Diversions =		0	0	0	0	72	236	310	221	74	0	0	0
	Total Irrigation Returns =		0	0	0	0	52	172	227	162	54	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Booth)	Node 1.11	50.0%	0	0	0	0	18	65	99	88	46	13	3	0
(AggDiv SC-2)	Node 2.03	50.0%	0	0	0	0	18	65	99	88	46	13	3	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	37	131	198	176	93	27	5	0
Node 1.09	Meyers Irrigation		Efficiency Pattern = 30											
	Total Diversions =		0	0	0	0	80	336	297	206	92	0	0	0
	Total Irrigation Returns =		0	0	0	0	56	235	208	144	64	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Anel)	Node 1.12	100.0%	0	0	0	0	39	176	198	166	95	27	6	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	39	176	198	166	95	27	6	0
Node 1.10	Evanston Pipeline		Efficiency Pattern = 60											
	Total Diversions =		0	0	0	0	342	519	719	652	464	0	0	0
	Total Irrigation Returns =		0	0	0	0	137	207	288	261	186	0	0	0
TO:	TO:	Percent	Return Pattern = 3											
(Confluence Yellow Creek / Bear River)	Node 5.00	100.0%	0	0	0	0	137	207	288	261	186	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	137	207	288	261	186	0	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 1.11		Booth	Efficiency Pattern = 27											
		Total Diversions =	0	0	0	0	297	745	766	557	404	0	0	0
		Total Irrigation Returns =	0	0	0	0	217	544	559	407	295	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Evanston Water Ditch)	Node 3.01	100.0%	0	0	0	0	152	424	522	451	344	100	30	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	152	424	522	451	344	100	30	0
Node 1.12		Anel	Efficiency Pattern = 30											
		Total Diversions =	0	0	0	0	229	737	347	162	136	0	0	0
		Total Irrigation Returns =	0	0	0	0	160	516	243	113	95	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(AggDiv BR-1)	Node 1.15	100.0%	0	0	0	0	112	393	289	179	113	30	9	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	112	393	289	179	113	30	9	0
Node 1.13		Evanston Water Supply	Efficiency Pattern = 27											
		Total Diversions =	0	0	0	0	77	372	409	317	166	0	0	0
		Total Irrigation Returns =	0	0	0	0	56	271	299	231	122	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Rocky Mtn & Blyth)	Node 3.02	50.0%	0	0	0	0	20	101	134	124	81	24	6	0
(John Simms)	Node 4.01	50.0%	0	0	0	0	20	101	134	124	81	24	6	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	39	201	269	249	161	47	12	0
Node 1.15		AggDiv BR-1	Efficiency Pattern = 33											
		Total Diversions =	0	0	0	6	158	564	701	319	81	8	0	0
		Total Irrigation Returns =	0	0	0	4	104	372	462	211	53	5	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Confluence Sulphur Creek / Bear River)	Node 3.00	100.0%	0	0	0	3	74	282	409	277	126	35	6	1
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	3	74	282	409	277	126	35	6	1

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 2 Nodes

Node 2.00		USGS 10015700: Sulphur Cr. ab Res.BI.La Chapelle Cr.Ni Division	Efficiency Pattern = 20											
Total Diversions =		0 0 0 0 0 0 0 0 0 0 0 0												
Total Irrigation Returns =		0 0 0 0 0 0 0 0 0 0 0 0												
TQ:	TQ:	Percent	Return Pattern = 3											
(Sulphur Creek Reservoir)	Node 2.02	100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01		AggDiv SC-1/Broadbent	Efficiency Pattern = 33											
Total Diversions =		0 0 0 0 0 0 0 0 0 0 0 0												
Total Irrigation Returns =		0 0 0 0 0 0 0 0 0 0 0 0												
TQ:	TQ:	Percent	Return Pattern = 2											
(Sulphur Creek Reservoir)	Node 2.02	100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02		Sulphur Creek Reservoir	Efficiency Pattern = 15											
Total Diversions =		0 0 0 0 0 0 0 0 0 0 0 0												
Total Irrigation Returns =		0 0 0 0 0 0 0 0 0 0 0 0												
TQ:	TQ:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.03		AggDiv SC-2	Efficiency Pattern = 33											
Total Diversions =		0 0 0 18 457 1627 2022 921 235 23 0 0												
Total Irrigation Returns =		0 0 0 12 301 1074 1335 608 155 15 0 0												
TQ:	TQ:	Percent	Return Pattern = 2											
(Confluence Sulphur Creek / Bear River)	Node 3.00	100.0%	0	0	0	8	213	813	1179	800	364	102	19	2
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	8	213	813	1179	800	364	102	19	2

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 3 Nodes

Node 3.00		Confluence Sulphur Creek / Bear River	Efficiency Pattern = 15											
Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.01		Evanston Water Ditch	Efficiency Pattern = 36											
Total Diversions =		0	0	0	0	213	1165	1077	884	351	0	0	0	0
Total Irrigation Returns =		0	0	0	0	136	745	690	566	224	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 2											
(Rocky Mtn & Blyth)	Node 3.02	100.0%	0	0	0	0	95	549	645	609	339	101	22	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	95	549	645	609	339	101	22	0
Node 3.02		Rocky Mtn & Blyth	Efficiency Pattern = 36											
Total Diversions =		0	0	0	0	505	836	554	296	288	0	0	0	0
Total Irrigation Returns =		0	0	0	0	323	535	355	189	184	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 2											
(John Simms)	Node 4.01	70.0%	0	0	0	0	158	307	271	180	142	39	13	0
(S P Ramsey)	Node 4.02	30.0%	0	0	0	0	68	132	116	77	61	17	6	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	226	439	387	257	202	56	18	0

Reach 4 Nodes

Node 4.00		USGS 10016900: Bear R. at Evanston, WY	Efficiency Pattern = 15											
Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0

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Node 4.01		John Simms	Efficiency Pattern = 36											
		Total Diversions =	0	0	0	0	599	990	546	478	451	0	0	0
		Total Irrigation Returns =	0	0	0	0	383	633	349	306	289	0	0	0
TO: (S P Ramsey) (AggDiv BR-2)	TO:	Percent	Return Pattern = 2											
	Node 4.02	50.0%	0	0	0	0	134	260	205	174	149	44	14	0
	Node 4.03	50.0%	0	0	0	0	134	260	205	174	149	44	14	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	268	520	410	347	298	88	29	0
Node 4.02		S P Ramsey	Efficiency Pattern = 33											
		Total Diversions =	0	0	0	0	465	1127	662	406	430	0	0	0
		Total Irrigation Returns =	0	0	0	0	307	744	437	268	284	0	0	0
TO: (AggDiv BR-2) (Chapman Canal)	TO:	Percent	Return Pattern = 2											
	Node 4.03	50.0%	0	0	0	0	107	291	243	175	148	42	14	0
	Node 5.01	50.0%	0	0	0	0	107	291	243	175	148	42	14	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	215	582	485	349	296	83	28	0
Node 4.03		AggDiv BR-2	Efficiency Pattern = 33											
		Total Diversions =	0	0	0	9	223	796	990	451	115	11	0	0
		Total Irrigation Returns =	0	0	0	6	147	526	653	298	76	7	0	0
TO: (Chapman Canal)	TO:	Percent	Return Pattern = 2											
	Node 5.01	100.0%	0	0	0	4	104	398	577	392	178	50	9	1
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	4	104	398	577	392	178	50	9	1
Reach 5 Nodes														
Node 5.00		Confluence Yellow Creek / Bear River	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	0	0	0	0	0	0	0	
		Total Irrigation Returns =	0	0	0	0	0	0	0	0	0	0	0	
TO: #N/A	TO:	Percent	Return Pattern = 2											
		100.0%	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	0	0	0	0	0	0	0	

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Node 5.01	Chapman Canal		Efficiency Pattern = 27												
	Total Diversions =		0	0	0	0	2605	4020	2093	798	701	0	0	0	
	Total Irrigation Returns =		0	0	0	0	1901	2935	1528	582	512	0	0	0	
TO:	TO:	Percent	Return Pattern = 2												
(AggDiv BR-3)	Node 5.03	100.0%	0	0	0	0	1331	2435	1847	1007	628	161	51	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	1331	2435	1847	1007	628	161	51	0	
Node 5.02	Morris Bros (Lower)		Efficiency Pattern = 36												
	Total Diversions =		0	0	0	0	152	253	87	57	59	0	0	0	
	Total Irrigation Returns =		0	0	0	0	97	162	56	36	38	0	0	0	
TO:	TO:	Percent	Return Pattern = 2												
(AggDiv BR-3)	Node 5.03	30.0%	0	0	0	0	20	40	24	16	12	3	1	0	
(Woodruff Narrows Reservoir)	Node 6.01	70.0%	0	0	0	0	48	93	57	37	27	8	3	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	68	133	81	53	39	11	4	0	
Node 5.03	AggDiv BR-3		Efficiency Pattern = 33												
	Total Diversions =		0	0	0	4	101	359	446	203	52	6	0	0	
	Total Irrigation Returns =		0	0	0	3	66	237	294	134	34	4	0	0	
TO:	TO:	Percent	Return Pattern = 2												
(Tunnel)	Node 5.04	100.0%	0	0	0	2	47	179	260	176	80	23	4	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	2	47	179	260	176	80	23	4	0	
Node 5.04	Tunnel		Efficiency Pattern = 36												
	Total Diversions =		0	0	0	0	557	1602	552	216	194	0	0	0	
	Total Irrigation Returns =		0	0	0	0	356	1025	353	138	124	0	0	0	
TO:	TO:	Percent	Return Pattern = 2												
(Woodruff Narrows Reservoir)	Node 6.01	100.0%	0	0	0	0	249	789	488	270	150	39	12	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.00%	0	0	0	0	249	789	488	270	150	39	12	0	

**Bear River Spreadsheet Model
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Reach 6 Nodes

Node 6.00		USGS 10020100: Bear R. ab res. nr Woodruff, UT				Efficiency Pattern = 15									
Total Diversions =		0				0		0	0	0	0	0	0	0	0
Total Irrigation Returns =		0				0		0	0	0	0	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 3												
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	
Node 6.01		Woodruff Narrows Reservoir				Efficiency Pattern = 15									
Total Diversions =		0				0		0	0	0	0	0	0	0	
Total Irrigation Returns =		0				0		0	0	0	0	0	0	0	
IQ:	IQ:	Percent	Return Pattern = 3												
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	

Reach 7 Nodes

Node 7.00		USGS 10020300: Bear R. bel res. nr Woodruff, UT				Efficiency Pattern = 15								
Total Diversions =		0				0		0	0	0	0	0	0	0
Total Irrigation Returns =		0				0		0	0	0	0	0	0	0
IQ:	IQ:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01		Francis Lee				Efficiency Pattern = 33								
Total Diversions =		0				1524		2999	1484	544	436	0	0	0
Total Irrigation Returns =		0				1006		1979	979	359	287	0	0	0
IQ:	IQ:	Percent	Return Pattern = 1											
Partial Returns from Aggregate Utah Dive	Node 7.04	100.0%	0	0	0	0	503	1241	1135	822	578	224	79	29
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	503	1241	1135	822	578	224	79	29

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Node 7.02		Bear River Canal	Efficiency Pattern = 33												
		Total Diversions =	0	0	0	0	2424	4872	1803	295	487	0	0	0	
		Total Irrigation Returns =	0	0	0	0	1600	3215	1190	195	321	0	0	0	
TO:		TO:	Return Pattern = 1												
Partial Returns from Aggregate Utah Diver		Node 7.04	100.0%	0	0	0	0	800	2008	1639	1037	709	229	68	32
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			100.00%	0	0	0	0	800	2008	1639	1037	709	229	68	32
Node 7.03		Aggregate Utah Diversions	Efficiency Pattern = 30												
		Total Diversions =	0	0	0	0	34210	60344	27279	3794	5317	0	0	0	
		Total Irrigation Returns =	0	0	0	0	23947	42241	19096	2656	3722	0	0	0	
TO:		TO:	Return Pattern = 2												
(USGS 10026500: Bear R. nr Randolph, (Pixley Dam) Partial Returns from Aggregate Utah Diver		Node 8.00	70.0%	0	0	0	0	11734	24051	16947	6931	3532	707	261	0
		Node 8.01	5.0%	0	0	0	0	838	1718	1210	495	252	50	19	0
		Node 7.04	25.0%	0	0	0	0	4191	8589	6052	2476	1261	252	93	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			100.00%	0	0	0	0	16763	34358	24210	9902	5046	1010	372	0
Node 7.04		Partial Returns from Aggregate Utah Diversions	Efficiency Pattern = 30												
		Total Diversions =	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total Irrigation Returns =	0	0	0	0	0	0	0	0	0	0	0	0	0
TO:		TO:	Return Pattern = 2												
	#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			100.00%	0	0	0	0	0	0	0	0	0	0	0	0
Reach 8 Nodes															
Node 8.00		USGS 10026500: Bear R. nr Randolph, UT	Efficiency Pattern = 15												
		Total Diversions =	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total Irrigation Returns =	0	0	0	0	0	0	0	0	0	0	0	0	0
TO:		TO:	Return Pattern = 3												
	#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			0.0%	0	0	0	0	0	0	0	0	0	0	0	0
			100.00%	0	0	0	0	0	0	0	0	0	0	0	0

**Bear River Spreadsheet Model
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Node 8.01	Pixley Dam		Efficiency Pattern = 33											
	Total Diversions =		0	0	0	0	2464	4003	913	24	151	0	0	0
	Total Irrigation Returns =		0	0	0	0	1626	2642	603	16	100	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Confluence Smiths Fork / Bear)	Node 9.01	100.0%	0	0	0	0	1139	2175	1113	396	133	22	10	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	1139	2175	1113	396	133	22	10	0
Node 8.02	BQ Dam		Efficiency Pattern = 33											
	Total Diversions =		0	0	0	0	2612	6924	2411	123	11	0	0	0
	Total Irrigation Returns =		0	0	0	0	1724	4570	1591	81	7	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Pixley Dam)	Node 8.01	100.0%	0	0	0	0	1207	3544	2200	832	180	10	1	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	1207	3544	2200	832	180	10	1	0
Reach 9 Nodes														
Node 9.00	USGS 10028500: Bear R. bel Pixley Dam, near Cokeville,		Efficiency Pattern = 15											
	Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0
	Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01	Confluence Smiths Fork / Bear		Efficiency Pattern = 15											
	Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0
	Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 3											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0

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Node 9.02		AggDiv BR-4	Efficiency Pattern = 42											
		Total Diversions =	0	0	0	6	375	1542	1982	842	200	8	0	0
		Total Irrigation Returns =	0	0	0	3	217	894	1150	488	116	4	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Confluence Smiths Fork / Bear)	Node 9.01	100.0%	0	0	0	2	153	670	1005	661	294	75	13	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	2	153	670	1005	661	294	75	13	0

Reach 10 Nodes

Node 10.01		USGS 10032000: Smiths Fork nr Border,WY	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	0	0	0	0	0	0	0	0
		Total Irrigation Returns =	0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0

Node 10.02		Button Flat	Efficiency Pattern = 36										
		Total Diversions =	0	0	0	89	186	236	172	71	0	0	0
		Total Irrigation Returns =	0	0	0	57	119	151	110	45	0	0	0
TO:	TO:	Percent	Return Pattern = 2										
(Emelle)	Node 10.03	100.0%	0	0	0	40	95	135	119	69	20	5	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	40	95	135	119	69	20	5	0

Node 10.03		Emelle	Efficiency Pattern = 36										
		Total Diversions =	0	0	0	116	842	817	606	54	0	0	0
		Total Irrigation Returns =	0	0	0	74	539	523	388	34	0	0	0
TO:	TO:	Percent	Return Pattern = 2										
(Cooper) (Covey)	Node 10.04	50.0%	0	0	0	26	196	241	215	77	23	2	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	52	392	481	430	154	46	3	0

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Node 10.04		Cooper	Efficiency Pattern = 36											
		Total Diversions =	0	0	0	0	277	472	295	73	26	0	0	0
		Total Irrigation Returns =	0	0	0	0	177	302	189	47	17	0	0	0
TQ:	TQ:	Percent	Return Pattern = 2											
(Covey)	Node 10.05	100.0%	0	0	0	0	124	247	210	101	40	8	2	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	124	247	210	101	40	8	2	0
Node 10.05		Covey	Efficiency Pattern = 30											
		Total Diversions =	0	0	0	0	2518	5914	5306	3122	1236	0	0	0
		Total Irrigation Returns =	0	0	0	0	1763	4140	3714	2186	865	0	0	0
TQ:	TQ:	Percent	Return Pattern = 1											
(Whites Water)	Node 10.08	10.0%	0	0	0	0	88	251	316	282	195	92	35	9
(AggDiv BR-5)	Node 11.01	90.0%	0	0	0	0	793	2260	2841	2537	1755	824	314	78
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	881	2511	3157	2819	1950	916	348	87
Node 10.06		VH Canal	Efficiency Pattern = 47											
		Total Diversions =	0	0	0	0	425	689	660	654	491	0	0	0
		Total Irrigation Returns =	0	0	0	0	225	365	350	347	260	0	0	0
TQ:	TQ:	Percent	Return Pattern = 1											
(Whites Water)	Node 10.08	100.0%	0	0	0	0	113	239	300	338	306	152	74	26
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	113	239	300	338	306	152	74	26
Node 10.07		Goodell	Efficiency Pattern = 47											
		Total Diversions =	0	0	0	0	238	418	478	416	329	0	0	0
		Total Irrigation Returns =	0	0	0	0	126	222	253	220	175	0	0	0
TQ:	TQ:	Percent	Return Pattern = 1											
(Whites Water)	Node 10.08	100.0%	0	0	0	0	63	142	201	219	202	102	48	17
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	63	142	201	219	202	102	48	17

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 10.08		Whites Water	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	830	1865	1427	1215	520	0	0	0
		Total Irrigation Returns =	0	0	0	0	498	1119	856	729	312	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(AggDiv BR-5)	Node 11.01	100.0%	0	0	0	0	348	883	873	793	450	135	31	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	348	883	873	793	450	135	31	0
Node 10.09		S Branch Irrigating	Efficiency Pattern = 42											
		Total Diversions =	0	0	0	0	854	1213	645	592	242	0	0	0
		Total Irrigation Returns =	0	0	0	0	496	703	374	343	140	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(AggDiv BR-5)	Node 11.01	100.0%	0	0	0	0	347	591	452	385	204	62	14	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	347	591	452	385	204	62	14	0
Node 10.10		AggDiv SF-1	Efficiency Pattern = 42											
		Total Diversions =	0	0	0	11	679	2793	3589	1525	362	14	0	0
		Total Irrigation Returns =	0	0	0	6	394	1620	2082	885	210	8	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Confluence Smiths Fork / Bear)	Node 9.01	100.0%	0	0	0	4	277	1213	1821	1198	532	136	23	1
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	4	277	1213	1821	1198	532	136	23	1
Reach 11 Nodes														
Node 11.01		AggDiv BR-5	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	7	462	1902	2444	1038	247	10	0	0
		Total Irrigation Returns =	0	0	0	4	277	1141	1466	623	148	6	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Alonzo F. Sights)	Node 11.02	40.0%	0	0	0	1	78	342	513	337	150	38	6	0
(Oscar E. Snyder)	Node 11.03	40.0%	0	0	0	1	78	342	513	337	150	38	6	0
(Cook Brothers)	Node 11.04	20.0%	0	0	0	1	39	171	256	169	75	19	3	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	3	195	855	1282	843	375	96	16	1

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 11.02		Alonzo F. Sights	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	647	1238	770	325	98	0	0	0
		Total Irrigation Returns =	0	0	0	0	388	743	462	195	59	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Oscar E. Snyder)	Node 11.03	50.0%	0	0	0	0	136	299	255	151	63	16	3	0
(Cook Brothers)	Node 11.04	50.0%	0	0	0	0	136	299	255	151	63	16	3	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	272	598	511	303	126	31	6	0
Node 11.03		Oscar E. Snyder	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	654	1593	1196	347	298	0	0	0
		Total Irrigation Returns =	0	0	0	0	392	956	718	208	179	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(Cook Brothers)	Node 11.04	50.0%	0	0	0	0	137	374	366	192	119	28	9	0
(USGS 10039500: Bear R. at Border, W	Node 12.00	50.0%	0	0	0	0	137	374	366	192	119	28	9	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	275	747	733	385	239	57	18	0
Node 11.04		Cook Brothers	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	1247	3135	1514	1060	1391	0	0	0
		Total Irrigation Returns =	0	0	0	0	748	1881	909	636	835	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
(USGS 10039500: Bear R. at Border, W	Node 12.00	100.0%	0	0	0	0	524	1466	1087	815	802	231	83	0
(Aggregate Idaho Diversions)	Node 12.02	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	524	1466	1087	815	802	231	83	0
Reach 12 Nodes														
Node 12.00		USGS 10039500: Bear R. at Border, WY	Efficiency Pattern = 40											
		Total Diversions =	0	0	0	0	0	0	0	0	0	0	0	0
		Total Irrigation Returns =	0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 2											
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0
		100.00%	0	0	0	0	0	0	0	0	0	0	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 12.01		Confluence Thomas Fork		Efficiency Pattern = 40											
Total Diversions =		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Returns =		0	0	0	0	0	0	0	0	0	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 1												
#N/A		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02		Aggregate Idaho Diversions		Efficiency Pattern = 60											
Total Diversions =		0	0	0	0	14094	27139	14878	7282	6947	0	0	0	0	0
Total Irrigation Returns =		0	0	0	0	5638	10856	5951	2913	2779	0	0	0	0	0
TO:	TO:	Percent	Return Pattern = 2												
(Rainbow Inlet)	Node 12.03	100.0%	0	0	0	0	3946	8727	6901	4315	3123	847	278	0	0
(Stewart Dam)	Node 12.04	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0
		100.0%	0	0	0	0	3946	8727	6901	4315	3123	847	278	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Summary Table : This table represents the TOTAL IRRIGATION RETURNS going TO each node based upon the calculations in the table above

Irrigation Returns: Total By Node

Node Number	Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.00	USGS 10011500: Bear River near UT-W	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.01	Lannon & Lone Mountain	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.02	Hilliard West Side	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.03	Bear Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.04	Crown & Pine Grove	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.05	McGraw & Big Bend	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.06	Lewis	0	0	0	0	617	1384	1202	882	593	193	63	11
Node 1.07	Meyers No. 2	0	0	0	0	112	433	482	312	211	55	17	0
Node 1.08	Meyers No. 1	0	0	0	0	63	286	488	464	314	92	24	0
Node 1.09	Meyers Irrigation	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.10	Evanston Pipeline	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.11	Booth	0	0	0	0	18	65	99	88	46	13	3	0
Node 1.12	Anel	0	0	0	0	39	176	198	166	95	27	6	0
Node 1.13	Evanston Water Supply	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.15	AggDiv BR-1	0	0	0	0	112	393	289	179	113	30	9	0
Node 1.18	Confluence Mill Cr.	0	0	0	0	222	585	675	514	426	177	71	26
Node 10.01	USGS 10032000: Smiths Fork nr Border	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.02	Button Flat	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.03	Emelle	0	0	0	0	40	95	135	119	69	20	5	0
Node 10.04	Cooper	0	0	0	0	26	196	241	215	77	23	2	0
Node 10.05	Covey	0	0	0	0	150	443	451	316	117	31	3	0
Node 10.06	VH Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.07	Goodell	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.08	Whites Water	0	0	0	0	264	632	816	839	703	346	157	52
Node 10.09	S Branch Irrigating	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.10	AggDiv SF-1	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.00	USGS 10038000: Bear R. bel Smiths Fc	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.01	AggDiv BR-5	0	0	0	0	1489	3734	4166	3716	2409	1022	359	78
Node 11.02	Alonzo F. Sights	0	0	0	1	78	342	513	337	150	38	6	0
Node 11.03	Oscar E. Snyder	0	0	0	1	214	641	768	489	213	54	9	0
Node 11.04	Cook Brothers	0	0	0	1	312	843	878	513	257	63	15	0
Node 12.00	USGS 10039500: Bear R. at Border, WY	0	0	0	0	661	1840	1453	1007	922	259	92	0
Node 12.01	Confluence Thomas Fork	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02	Aggregate Idaho Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.03	Rainbow Inlet	0	0	0	0	3946	8727	6901	4315	3123	847	278	0
Node 12.04	Stewart Dam	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.00	USGS 10015700: Sulphur Cr. ab Res.BI	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01	AggDiv SC-1/Broadbent	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02	Sulphur Creek Reservoir	0	0	0	0	227	1554	2179	1494	1389	636	221	105
Node 2.03	AggDiv SC-2	0	0	0	0	106	689	901	633	530	227	75	33

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 3.00	Confluence Sulphur Creek / Bear River	0	0	0	11	287	1095	1588	1077	490	138	25	2
Node 3.01	Evanston Water Ditch	0	0	0	0	152	424	522	451	344	100	30	0
Node 3.02	Rocky Mtn & Blyth	0	0	0	0	115	650	780	733	420	125	29	0
Node 4.00	USGS 10016900: Bear R. at Evanston, V	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.01	John Simms	0	0	0	0	178	408	406	304	222	63	19	0
Node 4.02	S P Ramsey	0	0	0	0	202	392	321	251	210	61	20	0
Node 4.03	AggDiv BR-2	0	0	0	0	241	551	447	348	297	86	29	0
Node 5.00	Confluence Yellow Creek / Bear River	0	0	0	0	137	207	288	261	186	0	0	0
Node 5.01	Chapman Canal	0	0	0	4	212	689	820	566	326	92	23	1
Node 5.02	Morris Bros (Lower)	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.03	AggDiv BR-3	0	0	0	0	1351	2474	1871	1022	639	164	52	0
Node 5.04	Tunnel	0	0	0	2	47	179	260	176	80	23	4	0
Node 6.00	USGS 10020100: Bear R. ab res. nr Wo	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01	Woodruff Narrows Reservoir	0	0	0	0	297	882	545	307	177	46	15	0
Node 7.00	USGS 10020300: Bear R. bel res. nr Wc	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01	Francis Lee	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.02	Bear River Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.03	Aggregate Utah Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.04	Partial Returns from Aggregate Utah Divi	0	0	0	0	5494	11838	8826	4335	2549	705	240	61
Node 8.00	USGS 10026500: Bear R. nr Randolph,	0	0	0	0	11734	24051	16947	6931	3532	707	261	0
Node 8.01	Pixley Dam	0	0	0	0	2045	5262	3411	1327	433	60	19	0
Node 8.02	BQ Dam	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.00	USGS 10028500: Bear R. bel Pixley Dai	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01	Confluence Smiths Fork / Bear	0	0	0	7	1568	4058	3939	2255	959	233	45	1
Node 9.02	AggDiv BR-4	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	27	32757	76219	63805	36943	22621	6757	2226	371

Bear River Spreadsheet Model
Normal Year Conditions

Irrigation Returns: Total By Reach

Reach Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0	0	0	0	1184	3323	3433	2605	1798	589	194	38
2	0	0	0	0	334	2243	3080	2127	1919	863	296	138
3	0	0	0	11	554	2169	2890	2261	1253	363	83	2
4	0	0	0	0	621	1351	1174	903	729	210	68	0
5	0	0	0	6	1747	3550	3238	2026	1231	279	80	1
6	0	0	0	0	297	882	545	307	177	46	15	0
7	0	0	0	0	5494	11838	8826	4335	2549	705	240	61
8	0	0	0	0	13779	29312	20357	8259	3965	767	280	0
9	0	0	0	7	1568	4058	3939	2255	959	233	45	1
10	0	0	0	0	480	1366	1643	1489	966	419	166	52
11	0	0	0	3	2092	5560	6325	5055	3030	1177	390	78
12	0	0	0	0	4607	10567	8354	5322	4045	1106	370	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Reservoir Evaporative Losses

Mean Monthly Evaporation (acre-feet).

Node Number	Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 2.01	Sulphur Creek Reservoir	59	59	72	97	130	189	219	197	139	85	65	75	1385
Node 3.01	Woodruff Narrows	201	199	246	329	442	642	743	669	473	289	222	255	4710

Sulphur Creek	
Avg (ac)=	500
Woodruff Narrows	
Avg (ac)=	1,700

Mean Monthly Evaporation (inches). Values reflect adjustment of pan evaporation data by a factor of 0.6

Mean Monthly Data (Green River, WY)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Overall Average (Gross Pan Evaporation - inches)	2.53	2.44	2.67	3.24	4.27	5.73	6.29	5.61	4.09	2.83	2.26	2.63	44.59
Overall Average (Precipitation - inches)	1.11	1.03	0.94	0.92	1.16	1.20	1.05	0.89	0.75	0.79	0.69	0.83	11.3
Overall Average (Net Evaporation - inches)	1.42	1.41	1.73	2.32	3.12	4.53	5.24	4.72	3.34	2.04	1.57	1.80	33.25

Gross Pan Evaporation data source:

High Plains Climate Center
14 L. W. Chase Hall
University of Nebraska
Lincoln, NE 68583-0728

**Bear River Spreadsheet Model
Normal Year Conditions**

Return Flows

**Irrigation Return Pattern (Amount of
the diversion that returns to the river)**

Type No.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
15	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%	85.0%
20	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
22	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%	78.0%
27	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%	73.0%
25	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
28	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%
30	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%	70.0%
33	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%	66.0%
35	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%
36	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%
40	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%
42	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%	58.0%
47	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%	53.0%
60	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%
70	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Irrigation Return Lags

Pattern No.	0	1	2	3	Total
1	50.0%	25.0%	15.0%	10.0%	100.0%
2	70.0%	20.0%	10.0%	0.0%	100.0%
3	100.0%	0.0%	0.0%	0.0%	100.0%
4	100.0%	0.0%	0.0%	0.0%	100.0%

Note: "0" means proportion that returns in same month as diverted
 "1" means returns in next month
 "2" means returns in two months
 etc.

**Bear River Spreadsheet Model
Normal Year Conditions**

Ungaged Reach Gains

Reach Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 1, 2 & 3	1,081	1,431	6,466	12,226	15,293	7,512	2,407	0	0	0	428	936
Reach 4 & 5	507	528	1,413	1,287	4,862	5,509	2,351	0	0	169	240	410
Reach 6	0	0	0	0	0	0	0	0	0	0	0	0
Reach 7	3,366	3,922	9,805	8,182	24,962	41,475	22,420	4,227	5,210	3,023	4,106	3,475
Reach 8	0	0	0	0	0	0	0	0	0	0	0	0
Reach 9 & 10	5,233	5,786	12,819	24,711	18,826	24,818	14,452	5,839	3,277	4,502	5,581	5,444
Reach 11	672	515	451	3,199	1,464	1,727	0	0	0	0	137	252
Reach 12	0	0	0	0	3,665	0	0	0	1,122	0	0	0
NA												

Ungaged Reach Losses

Reach Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 1, 2 & 3	0	0	0	0	0	0	0	2,353	1,408	1,436	0	0
Reach 4 & 5	0	0	0	0	0	0	0	725	307	0	0	0
Reach 6	0	0	0	0	0	0	0	0	0	0	0	0
Reach 7	0	0	0	0	0	0	0	0	0	0	0	0
Reach 8	2,067	2,630	5,444	9,603	14,650	25,580	14,220	7,373	3,492	2,483	2,273	1,641
Reach 9 & 10	0	0	0	0	0	0	0	0	0	0	0	0
Reach 11	0	0	0	0	0	0	38	2,367	1,446	820	0	0
Reach 12	2,859	2,553	740	2,378	0	4,912	3,207	492	0	1,940	1,341	1,705
NA												

**Bear River Spreadsheet Model
Normal Year Conditions**

Ungaged Gain and Loss Calculations

Reach 1 Gain/Loss			NOTE: Reaches 1 and 3 are sequential reaches of the Bear River Mainstem which comprise a total reach bound by USGS gages. The end of reach 1 (and beginning of reach 3) is a synthetic node representing the confluence with Sulphur Creek. Therefore, the ungaged gain/loss for the combined reach will be added accordingly. Gains are added to the upstream end of reach 1. Losses are taken from downstream end of reach 3.											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Upstream Gage at:	Node 1.00	USGS 10011500: Bear River near UT	2743	2372	2931	7026	37050	54949	20000	6311	5701	4495	3630	3056
Upstream Gage at:	Node 2.00	USGS 10015700: Sulphur Cr. ab Res	181	218	765	1934	2539	936	257	75	82	129	181	160
Downstream Gage at:	Node 4.00	USGS 10016900: Bear R. at Evanston	4168	4225	10391	21921	53606	54331	14865	3051	3304	4877	4941	4373
Gage Difference			1244	1635	6696	12961	14018	-1555	-5392	-3335	-2479	253	1130	1156
Reach Diversions														
1	Total Diversions		0	0	0	6	4261	13659	12392	5865	4874	8	0	0
2	Total Diversions		0	0	0	18	457	1627	2022	921	235	23	0	0
3	Total Diversions		0	0	0	0	717	2001	1631	1180	639	0	0	0
2	Gain/Loss at Sulphur Cr. Res.		-163	-204	-230	-748	-2088	-473	1168	21	305	95	-130	-43
Reach Total Diversions			-163	-204	-230	-724	3347	16813	17214	7987	6053	126	-130	-43
Reach Returns														
1	Total Returns		0	0	0	0	1184	3323	3433	2605	1798	589	194	38
2	Total Returns		0	0	0	0	334	2243	3080	2127	1919	863	296	138
3	Total Returns		0	0	0	11	554	2169	2890	2261	1253	363	83	2
2	Broadbent Import		0	0	0	0	0	12	12	12	12	0	0	0
Reach Total Returns			0	0	0	11	2071	7747	9415	7005	4982	1815	573	178
REACH NAME = Reach 1, 2 & 3 Net Gain/Loss			1081	1431	6466	12226	15293	7512	2407	-2353	-1408	-1436	428	936

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Upstream Gage at:	Node 4.00	USGS 10016900: Bear R. at Evanston	4168	4225	10391	21921	53606	54331	14865	3051	3304	4877	4941	4373
Downstream Gage at:	Node 6.00	USGS 10020100: Bear R. ab res. nr v	4675	4753	11805	23201	56136	55594	16253	2648	2955	5517	5329	4784
Gage Difference			507	528	1413	1280	2530	1263	1388	-403	-348	640	387	411
Reach Diversions														
4	Total Diversions		0	0	0	9	1287	2914	2198	1334	996	11	0	0
5	Total Diversions		0	0	0	4	3414	6234	3178	1273	1006	6	0	0
Reach Total Diversions			0	0	0	13	4701	9148	5375	2607	2001	17	0	0
Reach Returns														
4	Total Returns		0	0	0	0	621	1351	1174	903	729	210	68	0
5	Total Returns		0	0	0	6	1747	3550	3238	2026	1231	279	80	1
Reach Total Returns			0	0	0	6	2368	4901	4413	2929	1960	488	147	1
REACH NAME = Reach 4 & 5 Net Gain/Loss			507	528	1413	1287	4862	5509	2351	-725	-307	169	240	410

**Bear River Spreadsheet Model
Normal Year Conditions**

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Upstream Gage at:	Node 6.00	USGS 10020100: Bear R. ab res. nr v	4675	4753	11805	23201	56136	55594	16253	2648	2955	5517	5329	4784
Downstream Gage at:	Node 7.00	USGS 10020300: Bear R. bel res. nr 1	3447	3544	7158	20048	53673	60309	22031	4371	4119	4150	3578	3365
Gage Difference			-1228	-1209	-4646	-3152	-2464	4715	5778	1723	1164	-1367	-1750	-1419
Reach	Diversions													
6	Total Diversions		0	0	0	0	0	0	0	0	0	0	0	0
6	Gain/Loss at Woodruff Narrows Res.		1228	1209	4646	3152	2761	-3833	-5234	-1416	-987	1414	1765	1419
Reach Total Diversions			1228	1209	4646	3152	2761	-3833	-5234	-1416	-987	1414	1765	1419
Returns														
6	Total Returns		0	0	0	0	297	882	545	307	177	46	15	0
Reach Total Returns			0	0	0	0	297	882	545	307	177	46	15	0
REACH NAME =			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 6 Net Gain/Loss			0	0	0	0	0	0	0	0	0	0	0	0

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Upstream Gage at:	Node 7.00	USGS 10020300: Bear R. bel res. nr 1	3447	3544	7158	20048	53673	60309	22031	4371	4119	4150	3578	3365
Downstream Gage at:	Node 8.00	USGS 10026500: Bear R. nr Randolp	6813	7466	16963	28230	45971	45408	22712	8299	5639	7878	7925	6901
Gage Difference			3366	3922	9805	8182	-7702	-14902	681	3928	1520	3728	4346	3536
Reach	Diversions													
7	Total Diversions		0	0	0	0	38158	68215	30566	4633	6239	0	0	0
Reach Total Diversions			0	0	0	0	38158	68215	30566	4633	6239	0	0	0
Returns														
7	Total Returns		0	0	0	0	5494	11838	8826	4335	2549	705	240	61
Reach Total Returns			0	0	0	0	5494	11838	8826	4335	2549	705	240	61
REACH NAME =			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 7 Net Gain/Loss			3366	3922	9805	8182	24962	41475	22420	4227	5210	3023	4106	3475

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Upstream Gage at:	Node 8.00	USGS 10026500: Bear R. nr Randolp	6813	7466	16963	28230	45971	45408	22712	8299	5639	7878	7925	6901
Downstream Gage at:	Node 9.00	USGS 10028500: Bear R. bel Pixley L	4745	4836	11520	18627	40023	38213	25526	9038	5950	6162	5932	5260
Gage Difference			-2067	-2630	-5444	-9603	-5948	-7195	2814	739	311	-1716	-1993	-1641
Reach	Diversions													
8	Total Diversions		0	0	0	0	5077	10927	3324	147	162	0	0	0
Reach Total Diversions			0	0	0	0	5077	10927	3324	147	162	0	0	0
Returns														
8	Total Returns		0	0	0	0	13779	29312	20357	8259	3965	767	280	0
Reach Total Returns			0	0	0	0	13779	29312	20357	8259	3965	767	280	0
REACH NAME =			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 8 Net Gain/Loss			-2067	-2630	-5444	-9603	-14650	-25580	-14220	-7373	-3492	-2483	-2273	-1641

**Bear River Spreadsheet Model
Normal Year Conditions**

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
9	Upstream Gage at:	Node 9.00	USGS 10028500: Bear R. bel Pixley C	4745	4836	11520	18627	40023	38213	25526	9038	5950	6162	5932	5260
	Upstream Gage at:	Node 10.01	USGS 10032000: Smiths Fork nr Bor	3671	3237	3669	9074	34070	39604	20052	10016	6728	5648	4668	4172
	Downstream Gage at:	Node 11.00	USGS 10038000: Bear R. bel Smiths	13649	13859	28008	52402	88566	92123	50178	19419	14348	16943	16393	14929
		Gage Difference		5233	5786	12819	24701	14473	14307	4600	365	1670	5133	5793	5497
	Reach	Diversions													
	9	Total Diversions		0	0	0	6	375	1542	1982	842	200	8	0	0
	10	Total Diversions		0	0	0	11	6025	14394	13452	8376	3332	14	0	0
		Reach Total Diversions		0	0	0	17	6400	15936	15434	9218	3532	22	0	0
		Returns													
	9	Total Returns		0	0	0	7	1568	4058	3939	2255	959	233	45	1
	10	Total Returns		0	0	0	0	480	1366	1643	1489	966	419	166	52
		Reach Total Returns		0	0	0	7	2048	5424	5582	3744	1926	652	212	53
	REACH NAME =	Reach 9 & 10	Net Gain/Loss	5233	5786	12819	24711	18826	24818	14452	5839	3277	4502	5581	5444
11	Upstream Gage at:	Node 11.00	USGS 10038000: Bear R. bel Smiths	13649	13859	28008	52402	88566	92123	50178	19419	14348	16943	16393	14929
	Downstream Gage at:	Node 12.00	USGS 10039500: Bear R. at Border,)	14320	14374	28460	55596	89113	91543	50541	19337	13898	17291	16919	15260
		Gage Difference		672	515	451	3194	547	-581	363	-82	-451	348	527	331
	Reach	Diversions													
	11	Total Diversions		0	0	0	7	3009	7868	5924	2770	2035	10	0	0
		Reach Total Diversions		0	0	0	7	3009	7868	5924	2770	2035	10	0	0
		Returns													
	11	Total Returns		0	0	0	3	2092	5560	6325	5055	3030	1177	390	78
		Reach Total Returns		0	0	0	3	2092	5560	6325	5055	3030	1177	390	78
	REACH NAME =	Reach 11	Net Gain/Loss	672	515	451	3199	1464	1727	-38	-2367	-1446	-820	137	252
12	Upstream Gage at:	Node 12.00	USGS 10039500: Bear R. at Border,)	14320	14374	28460	55596	89113	91543	50541	19337	13898	17291	16919	15260
	Downstream Gage at:	Node 12.04	Stewart Dam	299	291	485	378	646	2506	1004	691	949	659	513	422
		Gage Difference		-14021	-14083	-27974	-55218	-88468	-89036	-49537	-18646	-12948	-16632	-16406	-14838
	Reach	Diversions													
	12	Total Diversions		11163	11530	27234	52840	96740	94691	54683	23476	18115	15798	15436	13133
		Reach Total Diversions		11163	11530	27234	52840	96740	94691	54683	23476	18115	15798	15436	13133
		Returns													
	12	Total Returns		0	0	0	0	4607	10567	8354	5322	4045	1106	370	0
		Reach Total Returns		0	0	0	0	4607	10567	8354	5322	4045	1106	370	0
	REACH NAME =	Reach 12	Net Gain/Loss	-2859	-2553	-740	-2378	3665	-4912	-3207	-492	1122	-1940	-1341	-1705

**Bear River Spreadsheet Model
Normal Year Conditions**

Import/Export Data

Master List of Node Numbers and their Names

Node	Name	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Node 1.00	USGS 10011500: Bear River near UT-WY Stz	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.01	Lannon & Lone Mountain	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.02	Hilliard West Side	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.03	Bear Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.04	Crown & Pine Grove	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.05	McGraw & Big Bend	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.06	Lewis	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.07	Meyers No. 2	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.08	Meyers No. 1	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.09	Meyers Irrigation	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.10	Evanston Pipeline	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.11	Booth	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.12	Anel	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.13	Evanston Water Supply	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.15	AggDiv BR-1	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.18	Confluence Mill Cr.	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.00	USGS 10015700: Sulphur Cr. ab Res.Bl.La C	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01	AggDiv SC-1/Broadbent	0	0	0	0	0	12	12	12	12	0	0	0
Node 2.02	Sulphur Creek Reservoir	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.03	AggDiv SC-2	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.00	Confluence Sulphur Creek / Bear River	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.01	Evanston Water Ditch	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.02	Rocky Mtn & Blyth	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.00	USGS 10016900: Bear R. at Evanston, WY	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.01	John Simms	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.02	S P Ramsey	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.03	AggDiv BR-2	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.00	Confluence Yellow Creek / Bear River	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.01	Chapman Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.02	Morris Bros (Lower)	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.03	AggDiv BR-3	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.04	Tunnel	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.00	USGS 10020100: Bear R. ab res. nr Woodruff	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01	Woodruff Narrows Reservoir	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.00	USGS 10020300: Bear R. bel res. nr Woodruff	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01	Francis Lee	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.02	Bear River Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.03	Aggregate Utah Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.04	Partial Returns from Aggregate Utah Diversion	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.00	USGS 10026500: Bear R. nr Randolph, UT	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.01	Pixley Dam	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.02	BQ Dam	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.00	USGS 10028500: Bear R. bel Pixley Dam, ne	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01	Confluence Smiths Fork / Bear	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.02	AggDiv BR-4	0	0	0	0	0	0	0	0	0	0	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Node 10.01 USGS 10032000: Smiths Fork nr Border,WY	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.02 Button Flat	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.03 Emelle	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.04 Cooper	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.05 Covey	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.06 VH Canal	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.07 Goodell	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.08 Whites Water	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.09 S Branch Irrigating	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.10 AggDiv SF-1	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.00 USGS 10038000: Bear R. bel Smiths Fork, nr	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.01 AggDiv BR-5	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.02 Alonzo F. Sights	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.03 Oscar E. Snyder	0	0	0	0	0	0	0	0	0	0	0	0
Node 11.04 Cook Brothers	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.00 USGS 10039500: Bear R. at Border, WY	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.01 Confluence Thomas Fork	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02 Aggregate Idaho Diversions	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.03 Rainbow Inlet	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.04 Stewart Dam	0	0	0	0	0	0	0	0	0	0	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Gaging Station Data

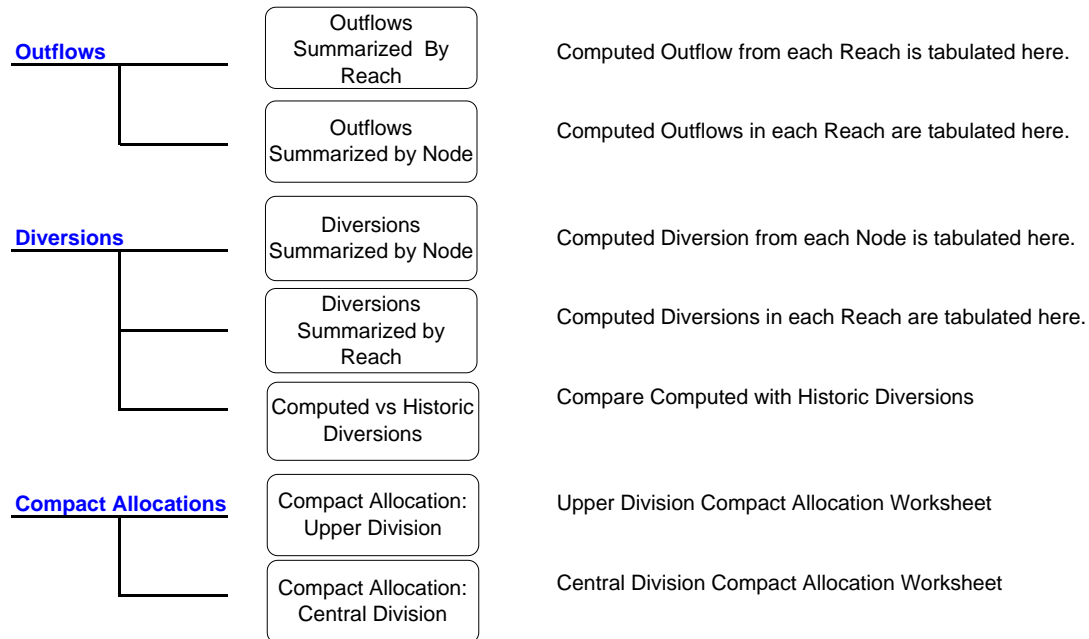
Average Monthly Streamflow (ac-ft) : Normal Year Conditions

Node	Name	Gage Number	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Node 1.00	USGS 10011500: Bear River near UT-WY State	10011500	2,743	2,372	2,931	7,026	37,050	54,949	20,000	6,311	5,701	4,495	3,630	3,056
Node 2.00	USGS 10015700: Sulphur Cr. ab Res.Bl.La Cha	10015700	181	218	765	1,934	2,539	936	257	75	82	129	181	160
Node 4.00	USGS 10016900: Bear R. at Evanston, WY	10016900	4,168	4,225	10,391	21,921	53,606	54,331	14,865	3,051	3,304	4,877	4,941	4,373
Node 6.00	USGS 10020100: Bear R. ab res. nr Woodruff, I	10020100	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784
Node 7.00	USGS 10020300: Bear R. bel res. nr Woodruff,	10020300	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Node 8.00	USGS 10026500: Bear R. nr Randolph, UT	10026500	6,813	7,466	16,963	28,230	45,971	45,408	22,712	8,299	5,639	7,878	7,925	6,901
Node 9.00	USGS 10028500: Bear R. bel Pixley Dam, near	10028500	4,745	4,836	11,520	18,627	40,023	38,213	25,526	9,038	5,950	6,162	5,932	5,260
Node 10.01	USGS 10032000: Smiths Fork nr Border,WY	10032000	3,671	3,237	3,669	9,074	34,070	39,604	20,052	10,016	6,728	5,648	4,668	4,172
Node 11.00	USGS 10038000: Bear R. bel Smiths Fork, nr C	10038000	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929
Node 12.00	USGS 10039500: Bear R. at Border, WY	10039500	14,320	14,374	28,460	55,596	89,113	91,543	50,541	19,337	13,898	17,291	16,919	15,260
Node 12.04	Stewart Dam	PP&L Gage	299	291	485	378	646	2,506	1,004	691	949	659	513	422

**Bear River Spreadsheet Model
Normal Year Conditions**

Results Navigator

Select the Summary Output You Would Like to View



**Bear River Spreadsheet Model
Normal Year Conditions**

Outflow Summary Worksheet

Results Options

Summary of Outflow Calculations: By Node

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 1.00 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	51,884	62,236	22,335	6,311	5,701	4,495	4,045	3,964
Node 1.01 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	51,251	61,149	21,413	5,861	5,199	4,495	4,045	3,964
Node 1.02 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	51,007	59,682	19,715	5,468	4,498	4,495	4,045	3,964
Node 1.03 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	50,442	55,970	16,603	4,753	3,430	4,495	4,045	3,964
Node 1.04 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	50,004	54,399	15,228	4,148	2,975	4,495	4,045	3,964
Node 1.05 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,005	52,624	14,297	3,500	2,578	4,495	4,045	3,964
Node 1.06 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,530	53,654	15,057	4,095	3,032	4,688	4,108	3,975
Node 1.07 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,606	53,903	15,175	4,074	3,048	4,743	4,125	3,975
Node 1.08 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,820	54,538	16,028	4,831	3,714	5,013	4,220	4,001
Node 1.09 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,739	54,202	15,731	4,625	3,622	5,013	4,220	4,001
Node 1.10 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,398	53,683	15,012	3,973	3,158	5,013	4,220	4,001
Node 1.11 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	49,119	53,004	14,345	3,504	2,800	5,026	4,223	4,001
Node 1.12 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	48,930	52,443	14,197	3,508	2,759	5,053	4,229	4,001
Node 1.13 NET Flow (In - Out)	1	3,792	3,760	9,203	18,885	48,853	52,071	13,788	3,191	2,592	5,053	4,229	4,001
Node 1.15 NET Flow (In - Out)	1	3,792	3,760	9,203	18,879	48,807	51,901	13,376	3,052	2,625	5,076	4,239	4,001

Reach 2 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 2.00 NET Flow (In - Out)	2	181	218	765	1,934	2,539	936	257	75	82	129	181	160
Node 2.01 NET Flow (In - Out)	2	181	218	765	1,934	2,539	948	269	87	94	129	181	160
Node 2.02 NET Flow (In - Out)	2	344	422	995	2,682	4,854	2,976	1,280	1,559	1,177	670	532	308
Node 2.03 NET Flow (In - Out)	2	376	465	1,189	3,031	4,963	2,263	230	1,272	1,472	875	620	370

Reach 3 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 3.00 NET Flow (In - Out)	3	4,168	4,225	10,391	21,921	54,057	55,258	15,195	5,401	4,586	6,088	4,883	4,373
Node 3.01 NET Flow (In - Out)	3	4,168	4,225	10,391	21,921	53,996	54,517	14,639	4,967	4,580	6,188	4,913	4,373
Node 3.02 NET Flow (In - Out)	3	4,168	4,225	10,391	21,921	53,606	54,331	14,865	3,051	3,304	4,877	4,941	4,373

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 4 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 4.00 NET Flow (In - Out)	4	4,675	4,753	11,805	23,207	58,469	59,841	17,216	3,051	3,304	5,046	5,182	4,783
Node 4.01 NET Flow (In - Out)	4	4,675	4,753	11,805	23,207	58,048	59,259	17,075	2,878	3,075	5,109	5,201	4,783
Node 4.02 NET Flow (In - Out)	4	4,675	4,753	11,805	23,207	57,785	58,523	16,735	2,723	2,855	5,170	5,220	4,783
Node 4.03 NET Flow (In - Out)	4	4,675	4,753	11,805	23,199	57,803	58,278	16,192	2,620	3,037	5,244	5,249	4,783

Reach 5 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 5.00 NET Flow (In - Out)	5	4,675	4,753	11,805	23,199	57,940	58,485	16,480	2,881	3,223	5,244	5,249	4,783
Node 5.01 NET Flow (In - Out)	5	4,675	4,753	11,805	23,203	55,547	55,154	15,206	2,650	2,847	5,336	5,272	4,783
Node 5.02 NET Flow (In - Out)	5	4,675	4,753	11,805	23,203	55,395	54,901	15,119	2,593	2,789	5,336	5,272	4,783
Node 5.03 NET Flow (In - Out)	5	4,675	4,753	11,805	23,199	56,646	57,017	16,545	3,412	3,376	5,494	5,325	4,783

Reach 6 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 6.00 NET Flow (In - Out)	6	4,675	4,753	11,805	23,201	56,136	55,594	16,253	2,648	2,955	5,517	5,329	4,784
Node 6.01 NET Flow (In - Out)	6	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365

Reach 7 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 7.00 NET Flow (In - Out)	7	6,813	7,466	16,963	28,230	78,635	101,784	44,452	8,598	9,329	7,173	7,685	6,840
Node 7.01 NET Flow (In - Out)	7	6,813	7,466	16,963	28,230	42,901	38,441	15,689	4,259	3,577	7,173	7,685	6,840
Node 7.02 NET Flow (In - Out)	7	6,813	7,466	16,963	28,230	40,477	33,570	13,886	3,964	3,090	7,173	7,685	6,840
Node 7.03 NET Flow (In - Out)	7	6,813	7,466	16,963	28,230	44,425	41,440	17,172	4,804	4,012	7,173	7,685	6,840

Reach 8 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 8.00 NET Flow (In - Out)	8	6,813	7,466	16,963	28,230	57,705	69,458	39,659	15,230	9,171	8,585	8,185	6,901
Node 8.01 NET Flow (In - Out)	8	4,745	4,836	11,520	18,627	40,023	38,213	25,526	9,038	5,950	6,162	5,932	5,260

Reach 9 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 9.00 NET Flow (In - Out)	9	6,472	6,745	15,750	26,782	46,235	46,403	30,295	10,965	7,031	7,648	7,774	7,056
Node 9.01 NET Flow (In - Out)	9	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 10 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 10.01 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	46,683	56,232	29,735	13,928	8,923	8,665	8,407	7,820
Node 10.02 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	46,594	56,045	29,499	13,756	8,852	8,665	8,407	7,820
Node 10.03 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	46,518	55,298	28,817	13,269	8,867	8,685	8,412	7,820
Node 10.04 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	46,267	55,022	28,763	13,411	8,918	8,707	8,414	7,820
Node 10.05 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	43,899	49,551	23,908	10,605	7,799	8,738	8,417	7,820
Node 10.06 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	43,474	48,861	23,248	9,951	7,308	8,738	8,417	7,820
Node 10.07 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	43,236	48,443	22,771	9,535	6,978	8,738	8,417	7,820
Node 10.08 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	42,670	47,210	22,160	9,159	7,162	9,084	8,574	7,872
Node 10.09 NET Flow (In - Out)	10	7,177	7,113	12,258	25,630	41,816	45,998	21,515	8,567	6,920	9,084	8,574	7,872
Node 10.10 NET Flow (In - Out)	10	7,177	7,113	12,258	25,619	41,137	43,205	17,926	7,042	6,558	9,070	8,574	7,872

Reach 11 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 11.01 NET Flow (In - Out)	11	14,320	14,374	28,460	55,593	91,056	95,683	51,900	22,096	16,510	17,955	16,889	15,260
Node 11.02 NET Flow (In - Out)	11	14,320	14,374	28,460	55,594	90,487	94,786	51,643	22,109	16,562	17,994	16,895	15,260
Node 11.03 NET Flow (In - Out)	11	14,320	14,374	28,460	55,596	90,048	93,834	51,216	22,251	16,477	18,048	16,904	15,260
Node 11.04 NET Flow (In - Out)	11	14,320	14,374	28,460	55,596	89,113	91,543	50,541	19,337	13,898	17,291	16,919	15,260

Reach 12 NET Flow (In - Out) Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Node 12.00 NET Flow (In - Out)	11	14,320	14,374	28,460	55,596	89,774	93,383	51,995	20,344	14,819	17,550	17,012	15,260
Node 12.01 NET Flow (In - Out)	11	14,320	14,374	28,460	55,596	93,439	93,383	51,995	20,344	15,941	17,550	17,012	15,260
Node 12.02 NET Flow (In - Out)	11	14,320	14,374	28,460	55,596	79,345	66,243	37,117	13,063	8,994	17,550	17,012	15,260
Node 12.03 NET Flow (In - Out)	11	3,158	2,844	1,226	2,756	646	7,418	4,212	1,183	949	2,599	1,854	2,127
Node 12.04 NET Flow (In - Out)	11	299	291	485	378	646	2,506	1,004	691	949	659	513	422

**Bear River Spreadsheet Model
Normal Year Conditions**

Summary of Outflow Calculations: By Reach

Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reach 1	3,792	3,760	9,203	18,879	48,807	51,901	13,376	3,052	2,625	5,076	4,239	4,001
Reach 2	376	465	1,189	3,031	4,963	2,263	230	1,272	1,472	875	620	370
Reach 3	4,168	4,225	10,391	21,921	53,606	54,331	14,865	3,051	3,304	4,877	4,941	4,373
Reach 4	4,675	4,753	11,805	23,207	57,785	58,523	16,735	2,723	2,855	5,170	5,220	4,783
Reach 5	4,675	4,753	11,805	23,199	56,646	57,017	16,545	3,412	3,376	5,494	5,325	4,783
Reach 6	3,447	3,544	7,158	20,048	53,673	60,309	22,031	4,371	4,119	4,150	3,578	3,365
Reach 7	6,813	7,466	16,963	28,230	44,425	41,440	17,172	4,804	4,012	7,173	7,685	6,840
Reach 8	4,745	4,836	11,520	18,627	40,023	38,213	25,526	9,038	5,950	6,162	5,932	5,260
Reach 9	13,649	13,859	28,008	52,402	88,566	92,123	50,178	19,419	14,348	16,943	16,393	14,929
Reach 10	7,177	7,113	12,258	25,619	41,137	43,205	17,926	7,042	6,558	9,070	8,574	7,872
Reach 11	14,320	14,374	28,460	55,596	89,113	91,543	50,541	19,337	13,898	17,291	16,919	15,260
Reach 12	299	291	485	378	646	2,506	1,004	691	949	659	513	422

**Bear River Spreadsheet Model
Normal Year Conditions**

Results Options

Diversion Summary Worksheet

Summary of Diversion Calculations: By Node

Reach 1 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 1.00 Diversions	USGS 10011500: Bear River nea	1	0	0	0	0	0	0	0	0	0	0	0	0
Node 1.01 Diversions	Lannon & Lone Mountain	1	0	0	0	0	633	1,087	922	450	502	0	0	3,594
Node 1.02 Diversions	Hilliard West Side	1	0	0	0	0	244	1,467	1,698	393	701	0	0	4,503
Node 1.03 Diversions	Bear Canal	1	0	0	0	0	565	3,712	3,112	715	1,068	0	0	9,171
Node 1.04 Diversions	Crown & Pine Grove	1	0	0	0	0	438	1,571	1,375	605	456	0	0	4,444
Node 1.05 Diversions	McGraw & Big Bend	1	0	0	0	0	999	1,775	931	648	397	0	0	4,750
Node 1.06 Diversions	Lewis	1	0	0	0	0	92	354	442	287	139	0	0	1,315
Node 1.07 Diversions	Meyers No. 2	1	0	0	0	0	35	185	363	333	195	0	0	1,111
Node 1.08 Diversions	Meyers No. 1	1	0	0	0	0	72	236	310	221	74	0	0	913
Node 1.09 Diversions	Meyers Irrigation	1	0	0	0	0	80	336	297	206	92	0	0	1,011
Node 1.10 Diversions	Evanston Pipeline	1	0	0	0	0	342	519	719	652	464	0	0	2,695
Node 1.11 Diversions	Booth	1	0	0	0	0	297	745	766	557	404	0	0	2,769
Node 1.12 Diversions	Anel	1	0	0	0	0	229	737	347	162	136	0	0	1,610
Node 1.13 Diversions	Evanston Water Supply	1	0	0	0	0	77	372	409	317	166	0	0	1,341
Node 1.14 Diversions	Hilliard East Side	1	0	0	0	0	29	505	1,423	448	531	0	0	2,937
Node 1.15 Diversions	AggDiv BR-1	1	0	0	0	6	158	564	701	319	81	8	0	1,837

Reach 2 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 2.00 Diversions	USGS 10015700: Sulphur Cr. ab	2	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.01 Diversions	AggDiv SC-1/Broadbent	2	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.02 Diversions	Sulphur Creek Reservoir	2	0	0	0	0	0	0	0	0	0	0	0	0
Node 2.03 Diversions	AggDiv SC-2	2	0	0	0	18	457	1,627	2,022	921	235	23	0	5,304

Reach 3 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 3.00 Diversions	Confluence Sulphur Creek / Bear	3	0	0	0	0	0	0	0	0	0	0	0	0
Node 3.01 Diversions	Evanston Water Ditch	3	0	0	0	0	213	1,165	1,077	884	351	0	0	3,690
Node 3.02 Diversions	Rocky Mtn & Blyth	3	0	0	0	0	505	836	554	296	288	0	0	2,479
														0

Reach 4 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 4.00 Diversions	USGS 10016900: Bear R. at Evar	4	0	0	0	0	0	0	0	0	0	0	0	0
Node 4.01 Diversions	John Simms	4	0	0	0	0	599	990	546	478	451	0	0	3,063
Node 4.02 Diversions	S P Ramsey	4	0	0	0	0	465	1,127	662	406	430	0	0	3,089
Node 4.03 Diversions	AggDiv BR-2	4	0	0	0	9	223	796	990	451	115	11	0	2,596

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 5 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 5.00 Diversions	Confluence Yellow Creek / Bear R	5	0	0	0	0	0	0	0	0	0	0	0	0
Node 5.01 Diversions	Chapman Canal	5	0	0	0	0	2,605	4,020	2,093	798	701	0	0	10,217
Node 5.02 Diversions	Morris Bros (Lower)	5	0	0	0	0	152	253	87	57	59	0	0	607
Node 5.03 Diversions	AggDiv BR-3	5	0	0	0	4	101	359	446	203	52	6	0	1,169
Node 5.04 Diversions	Tunnel	5	0	0	0	0	557	1,602	552	216	194	0	0	3,121
														0

Reach 6 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 6.00 Diversions	USGS 10020100: Bear R. ab res.	6	0	0	0	0	0	0	0	0	0	0	0	0
Node 6.01 Diversions	Woodruff Narrows Reservoir	6	0	0	0	0	0	0	0	0	0	0	0	0

Reach 7 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 7.00 Diversions	USGS 10020300: Bear R. bel res	7	0	0	0	0	0	0	0	0	0	0	0	0
Node 7.01 Diversions	Francis Lee	7	0	0	0	0	1,524	2,999	1,484	544	436	0	0	6,987
Node 7.02 Diversions	Bear River Canal	7	0	0	0	0	2,424	4,872	1,803	295	487	0	0	9,880
Node 7.03 Diversions	Aggregate Utah Diversions	7	0	0	0	0	34,210	60,344	27,279	3,794	5,317	0	0	130,944

Reach 8 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 8.00 Diversions	USGS 10026500: Bear R. nr Ran	8	0	0	0	0	0	0	0	0	0	0	0	0
Node 8.01 Diversions	Pixley Dam	8	0	0	0	0	2,464	4,003	913	24	151	0	0	7,555
Node 8.02 Diversions	BQ Dam	8	0	0	0	0	2,612	6,924	2,411	123	11	0	0	12,081

Reach 9 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 9.00 Diversions	USGS 10028500: Bear R. bel Pix	9	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.01 Diversions	Confluence Smiths Fork / Bear	9	0	0	0	0	0	0	0	0	0	0	0	0
Node 9.02 Diversions	AggDiv BR-4	9	0	0	0	6	375	1,542	1,982	842	200	8	0	4,955

**Bear River Spreadsheet Model
Normal Year Conditions**

Reach 10 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 10.01 Diversions	USGS 10032000: Smiths Fork nr	10	0	0	0	0	0	0	0	0	0	0	0	0
Node 10.02 Diversions	Button Flat	10	0	0	0	0	89	186	236	172	71	0	0	755
Node 10.03 Diversions	Emelle	10	0	0	0	0	116	842	817	606	54	0	0	2,435
Node 10.04 Diversions	Cooper	10	0	0	0	0	277	472	295	73	26	0	0	1,143
Node 10.05 Diversions	Covey	10	0	0	0	0	2,518	5,914	5,306	3,122	1,236	0	0	18,097
Node 10.06 Diversions	VH Canal	10	0	0	0	0	425	689	660	654	491	0	0	2,919
Node 10.07 Diversions	Goodell	10	0	0	0	0	238	418	478	416	329	0	0	1,879
Node 10.08 Diversions	Whites Water	10	0	0	0	0	830	1,865	1,427	1,215	520	0	0	5,857
Node 10.09 Diversions	S Branch Irrigating	10	0	0	0	0	854	1,213	645	592	242	0	0	3,545
Node 10.10 Diversions	AggDiv SF-1	10	0	0	0	11	679	2,793	3,589	1,525	362	14	0	8,974

Reach 11 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 11.01 Diversions	AggDiv BR-5	11	0	0	0	7	462	1,902	2,444	1,038	247	10	0	6,110
Node 11.02 Diversions	Alonzo F. Sights	11	0	0	0	0	647	1,238	770	325	98	0	0	3,077
Node 11.03 Diversions	Oscar E. Snyder	11	0	0	0	0	654	1,593	1,196	347	298	0	0	4,088
Node 11.04 Diversions	Cook Brothers	11	0	0	0	0	1,247	3,135	1,514	1,060	1,391	0	0	8,348

Reach 12 Diversions Summary Table

NODE	Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Node 12.01 Diversions	Confluence Thomas Fork	12	0	0	0	0	0	0	0	0	0	0	0	0
Node 12.02 Diversions	Aggregate Idaho Diversions	12	0	0	0	0	14,094	27,139	14,878	7,282	6,947	0	0	70,340
Node 12.03 Diversions	Rainbow Inlet	12	11,163	11,530	27,234	52,840	82,646	67,552	39,806	16,195	11,167	15,798	15,436	364,499
Node 12.04 Diversions	Stewart Dam	12	0	0	0	0	0	0	0	0	0	0	0	0

**Bear River Spreadsheet Model
Normal Year Conditions**

Summary of Diversion Calculations: By Reach

Reach	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Reach 1	0	0	0	6	4,290	14,164	13,815	6,313	5,405	8	0	0	44,001
Reach 2	0	0	0	18	457	1,627	2,022	921	235	23	0	0	5,304
Reach 3	0	0	0	0	717	2,001	1,631	1,180	639	0	0	0	6,168
Reach 4	0	0	0	9	1,287	2,914	2,198	1,334	996	11	0	0	8,748
Reach 5	0	0	0	4	3,414	6,234	3,178	1,273	1,006	6	0	0	15,114
Reach 6	0	0	0	0	0	0	0	0	0	0	0	0	0
Reach 7	0	0	0	0	38,158	68,215	30,566	4,633	6,239	0	0	0	147,811
Reach 8	0	0	0	0	5,077	10,927	3,324	147	162	0	0	0	19,637
Reach 9	0	0	0	6	375	1,542	1,982	842	200	8	0	0	4,955
Reach 10	0	0	0	11	6,025	14,394	13,452	8,376	3,332	14	0	0	45,604
Reach 11	0	0	0	7	3,009	7,868	5,924	2,770	2,035	10	0	0	21,623
Reach 12	11,163	11,530	27,234	52,840	96,740	94,691	54,683	23,476	18,115	15,798	15,436	13,133	434,839

**Bear River Spreadsheet Model
Normal Year Conditions**

Comparison of Computed vs Historic Diversions

Node	Name	Historic	Estimated	Difference	% Diff
Node 1.01	Lannon & Lone Mountain	3,594	3,594	0	0.0
Node 1.02	Hilliard West Side	4,503	4,503	0	0.0
Node 1.03	Bear Canal	9,171	9,171	0	0.0
Node 1.04	Crown & Pine Grove	4,444	4,444	0	0.0
Node 1.05	McGraw & Big Bend	4,750	4,750	0	0.0
Node 1.06	Lewis	1,315	1,315	0	0.0
Node 1.07	Meyers No. 2	1,111	1,111	0	0.0
Node 1.08	Meyers No. 1	913	913	0	0.0
Node 1.09	Meyers Irrigation	1,011	1,011	0	0.0
Node 1.10	Evanston Pipeline	2,695	2,695	0	0.0
Node 1.11	Booth	2,769	2,769	0	0.0
Node 1.12	Anel	1,610	1,610	0	0.0
Node 1.13	Evanston Water Supply	1,341	1,341	0	0.0
Node 1.15	AggDiv BR-1	1,837	1,837	0	0.0
Node 2.03	AggDiv SC-2	5,304	5,304	0	0.0
Node 3.01	Evanston Water Ditch	3,690	3,690	0	0.0
Node 3.02	Rocky Mtn & Blyth	2,479	2,479	0	0.0
Node 4.01	John Simms	3,063	3,063	0	0.0
Node 4.02	S P Ramsey	3,089	3,089	0	0.0
Node 4.03	AggDiv BR-2	2,596	2,596	0	0.0
Node 5.01	Chapman Canal	10,217	10,217	0	0.0
Node 5.02	Morris Bros (Lower)	607	607	0	0.0
Node 5.03	AggDiv BR-3	1,169	1,169	0	0.0
Node 5.04	Tunnel	3,121	3,121	0	0.0
Node 7.01	Francis Lee	6,987	6,987	0	0.0
Node 7.02	Bear River Canal	9,880	9,880	0	0.0
Node 7.03	Aggregate Utah Diversions	130,944	130,944	0	0.0
Node 8.02	BQ Dam	12,081	12,081	0	0.0
Node 9.02	AggDiv BR-4	4,955	4,955	0	0.0
Node 10.02	Button Flat	755	755	0	0.0
Node 10.03	Emelle	2,435	2,435	0	0.0
Node 10.04	Cooper	1,143	1,143	0	0.0
Node 10.05	Covey	18,097	18,097	0	0.0
Node 10.06	VH Canal	2,919	2,919	0	0.0
Node 10.07	Goodell	1,879	1,879	0	0.0
Node 10.08	Whites Water	5,857	5,857	0	0.0
Node 10.09	S Branch Irrigating	3,545	3,545	0	0.0
Node 10.10	AggDiv SF-1	8,974	8,974	0	0.0
Node 11.01	AggDiv BR-5	6,110	6,110	0	0.0
Node 11.02	Alonzo F. Sights	3,077	3,077	0	0.0
Node 11.03	Oscar E. Snyder	4,088	4,088	0	0.0
Node 11.04	Cook Brothers	8,348	8,348	0	0.0
Node 12.02	Aggregate Idaho Diversions	70,340	70,340	0	0.0
Node 12.03	Rainbow Inlet	364,499	364,499	0	0.0

**Bear River Spreadsheet Model
Normal Year Conditions**

Results Options

**Normal Year
Bear River Commission Water Allocation
Upper Division (AF)**

May	Jun	Jul	Aug	Sep	
169	760	675	372	79	Upper Utah Section Diversion (1)
10,165	26,939	22,844	11,022	8,280	Upper Wyoming Section Diversion
2,319	(4,475)	(5,977)	(2,085)	(1,460)	Woodruff Narrows Reservoir Change in Storage Water
38,158	68,215	30,566	4,633	6,239	Lower Utah Section Diversions
5,077	10,927	3,324	147	162	Lower Wyoming Section Diversions
40,023	38,213	25,526	9,038	5,950	Bear River Below Pixley Dam
95,910	140,578	76,958	23,128	19,250	Total Upper Division Divertible Flow (ac-ft)
1,560	2,362	1,252	376	324	(cfs)

Is Total Upper Division Divertible Flow less than 1250 cfs? If so, Water Emergency (W.E.) exists.

No W.E. No W.E. No W.E. W.E. W.E.

			139	116	Upper Utah Section Allocation
			11,402	9,490	Upper Wyoming Allocation
			9,367	7,796	Lower Utah Section Allocation
			2,220	1,848	Lower Wyoming Section Allocation

NOTE: (1) Upper Utah Division is not modeled explicitly in this model. Diversion data are included here for computation of Compact allocations.

**Bear River Spreadsheet Model
Normal Year Conditions**

Results Options

**Bear River Commission Water Allocation
Central Division (AF)**

	May	Jun	Jul	Aug	Sep	
	9,409	23,804	21,358	11,988	5,567	(1) Wyoming Diversions
	+	+	+	+	+	
	14,094	27,139	14,878	7,282	6,947	(2) Idaho Diversions
	+	+	+	+	+	
	83,291	70,058	40,810	16,886	12,117	(3) Rainbow Inlet Canal plus Bear River Main Stem Flow below Stewart Dam
	=	=	=	=	=	
	106,795	121,001	77,046	36,155	24,631	Total Central Division Divertible Flow (ac-ft)
	1,737	2,033	1,253	608	414	(cfs)
Is Total Divertible Flow (2) < 870 cfs? If so, Water Emergency (W.E.) exists.				W.E.	W.E.	
OR						
	89,113	91,543	50,541	19,337	13,898	Flow of Bear River at Border Gaging Station (ac-ft)
	1,498	1,538	822	325	234	(cfs)
Is Flow at Border < 350 cfs? If so, Water Emergency (W.E.) exists.				W.E.	W.E.	
				15,547	10,591	Allocation in the State of Wyoming
				20,609	14,039	Allocation in the State of Idaho