
TECHNICAL MEMORANDUM

**SUBJECT: Snake/Salt River Basin Plan
Irrigation Diversion Operation and Description**

PREPARED BY: Sunrise Engineering

DATE: July 19, 2002

Introduction:

This memo contains information regarding the larger irrigation diversions in the Snake/Salt River basin. This data is used during the planning process to determine the use of water for irrigation purposes, and to incorporate this use in the river modeling effort.

Diversion Selection:

As with other basin plans that have been completed in Wyoming, the initial inventory was to include diversions of 10 c.f.s. or larger. The diversions to include in this inventory were determined from records of the State Engineer's Office in cooperation with the local Hydrographer/Commissioners, as well as the Superintendent for Water Division IV. Other slightly smaller diversions that are seen as important with regards to irrigation in the basin have also been added to the inventory.

Methodology - Data Gathering for Operation Memoranda and Diversion Records:

Data regarding the selected diversions were obtained from a variety of sources. The water right data for each diversion was obtained from the Hydrographer/Commissioners Regulation Lists as well as the State of Wyoming Tabulation of Adjudicated Surface Water Rights. Operational data was obtained directly from those involved with the ditches, such as a watermaster or irrigation company or district representative.

It was discovered during the data collection process that diversion records for facilities in the basin are not readily available. Flows at most diversions are not generally recorded. Data was collected from the Hydrographers' Annual Reports, however only a few of the diversions were represented in these records. Also, most of the flow records consisted of spot readings on a particular day, with only a handful of readings available. The lack of diversion data in the basin is indicative of the relative lack of regulation on the diversions in the basin. While some water users do call for regulation in certain areas, many ditches are controlled by irrigation districts or companies. This type of self-regulation is possible due to the fact that many diversions are

located on reaches of a stream or river that generally run dry or nearly dry during the summer. These companies have determined that it is in the best interest of their irrigators to divide the water equally without invoking regulation by priority. This is typically the case where many appropriators obtain water through a common diversion and ditch system that was likely built with resources of those with both junior and senior rights. Water is usually divided by taking turns for using the water depending upon the water available. As a result flows are typically not measured, only the time allowed for irrigation. In addition to the self-regulation of diversions, there is no regulation of stored water for irrigation use, as the water stored in the basin reservoirs is for uses outside of the basin.

Due to the lack of diversion records in the basin, the modeling effort will incorporate diversion flows based on the consumptive irrigation requirement for the crop being irrigated. This method is further explained in the technical memorandum prepared by Boyle Engineering entitled “Surface Water Data Synthesis and Spreadsheet Model Development”.

The inventory of key irrigation diversions is shown in **Table 1**.

Table 1. Inventory of Key Diversions

Diversion	Subbasin	Source	Headgate Location		
			Section	Township	Range
Afton Canal	Salt	Swift Creek	30	32	118
Alto Canal	Salt	Strawberry Creek	27	34	118
Ames & Gould Canal	Salt	Salt River	28	36	119
Baker & Heap Canal	Salt	Salt River	34	35	119
Cottonwood Pipeline	Salt	Cottonwood Creek	4	30	118
Crow Creek Canal	Salt	Crow Creek	34	32	119
Dana Ditch	Salt	Various Springs	2, 13	34	119
Dry Creek Pipeline	Salt	Dry Creek	8	31	118
East Side Canal	Salt	Salt River	35	34	119
Freedom Canal	Salt	Salt River	4	34	119
Halling Ditch	Salt	Swift Creek	30	32	118
Hardman Canal	Salt	Strawberry Creek	27	34	118
Idaho Boundary Line	Salt	Stump Creek	06	32	119
Kirkbride Canal	Salt	Salt River	33	35	119
North Canal	Salt	Swift Creek	30	32	118
Porto Canal	Salt	Cedar Creek	5	34	118
Salt River Canal	Salt	Salt River	36	31	119
Stewart Creek Pipeline	Salt	Stewart Creek	24	36	118
Strawberry North Canal	Salt	Strawberry Creek	27	34	118
Strawberry Upper Canal	Salt	Strawberry Creek	27	34	118
Union Canal	Salt	Salt River	22	35	119
Black Rock	Snake	Black Rock Creek	31	45	112
Gaffney	Snake	Buffalo Fork	25	45	113
Adams	Snake	Flat Creek	6	40	116

Diversion	Subbasin	Source	Headgate Location		
			Section	Township	Range
Lost Springs	Snake	Flat Creek	34	42	115
Cyclone	Snake	Gros Ventre River	26	42	116
Enterprise	Snake	Gros Ventre River	24	42	116
Hobo	Snake	Gros Ventre River	24	42	116
Hot Springs	Snake	Gros Ventre River	11	42	115
Savage	Snake	Gros Ventre River	1	42	115
Mormon Row	Snake	Mud Springs	2	42	115
Ideal	Snake	Gros Ventre River	1	42	115
Sabastian	Snake	Gros Ventre River	10	42	115
Spring Gulch Irrigation	Snake	Gros Ventre River	34	42	116
South Park Supply	Snake	Gros Ventre River	18	42	115
Last Chance	Snake	Granite Creek	19	42	116
Pioneer	Snake	Granite Creek	1	41	117
Granite Cr. Supplemental	Snake	Snake River	9	42	116
Iron Rock	Snake	Snake River	13	41	117
Prosperity	Snake	Snake River	13	41	117
Wolff	Snake	Spread Creek	13	44	114
Todd	Teton	Darby Creek	30	43	118
South Side Canal	Teton	Teton Creek	22	44	118
North Side Canal	Teton	Teton Creek	23	44	118
Wyo. & Darby Bench Canal	Teton	Teton Creek	20	43	118
Squirrel Creek Irr. Co. Canal	Teton	Squirrel Creek	5	47	118

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Afton Canal, Swift Creek

Diversion Description: Diversion structure with three 3' x 2' slide gates is located on a bend in Swift Creek.

Diversion Location:

Source: Swift Creek, Trib. Salt River
Section, Township, Range: 30, 32, 118

Conveyance Description: The Afton Canal is an open channel canal with a length of approximately 100 yards. At that point, the water enters the intake structure for the Nield String Pipeline and the West Afton Pipeline. The Nield String Pipeline consists of approximately 5 miles of pipe. The West Afton Pipeline consists of approximately 4 miles of pipe.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
04-10-1886	TERR	D, I	2.34	0.09	0.09	West Afton PL
04-15-1886	TERR	D, I	2.50	0.10	0.19	West Afton PL
05-08-1886	TERR	D, I	830.53	11.92	12.11	Nield String PL
09-01-1886	TERR	D, I	156.66	2.24	14.35	West Afton PL
09-15-1886	TERR	D, I	114.00	1.70	16.05	West Afton PL
10-15-1887	TERR	D, I	5.00	0.07	16.12	West Afton PL
04-15-1888	TERR	D, I	2.50	0.10	16.22	West Afton PL
05-15-1889	TERR	D, I	297.00	4.35	20.57	West Afton PL
06-08-1895	118E	Irrigation	209.86	3.13	23.70	Nield String PL
05-27-1902	868E	Irrigation	100.00	1.42	25.12	West Afton PL
03-07-1903	1006E	D, I	60.00	0.83	25.95	West Afton PL
06-27-1904	6102	Irrigation	16.00	0.22	26.17	West Afton PL
09-29-1905	1449E	Irrigation	20.00	0.28	26.45	West Afton PL

Storage Rights: None

Estimated Canal Losses: Unknown, however canal length is very short.

Irrigation Practices: Nield String Pipeline is 100% sprinkler irrigation. West Afton pipeline is also 100% sprinkler irrigation.

Crop Types / Consumptive Use: The area served by the Nield String Pipeline is approximately 50% alfalfa, 15% grain and 35% pasture/grass hay. The area served by West Afton pipeline is approximately 12% grain, 12% alfalfa and 76% pasture/grass hay.

Return Flows: No return flows.

Other Operational Information: The Nield String Pipeline is generally turned on the beginning of May and turned off the end of October. The West Afton pipeline is generally turned on the end of May and turned off in mid October. These systems have adequate water for operation throughout the year.

Sources: Scott Nield, Nield String Pipeline, Interview, December 24, 2001.
Jody Kennington, West Afton Pipeline, Interview, December 28, 2001.

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Alto Canal, Strawberry Creek

Diversion Description: Concrete structure with leveling boards across creek, 4' by 3.5' slide headgate on side of stream.

Diversion Location:

Source: Strawberry Creek, Trib. Salt River
Section, Township, Range: 27, 34, 118

Conveyance Description: Open channel canal, approximately 7 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
07-18-1895	1023	I, D	460.00	6.55	6.55	
07-08-1901	679E	Irrigation	80.00	1.14	7.69	
07-08-1903	1111E	Irrigation	40.00	0.57	8.26	
10-09-1916	3765E	D, I, S	302.00	4.31	12.57	
08-26-1921	4237E	Irrigation	39.50	0.56	13.13	
03-16-1976	6595E	Irrigation	20.00	0.29	13.42	

Storage Rights: None

Estimated Canal Losses: Approximately 15%.

Irrigation Practices: 68% sprinkler irrigation, 32% flood irrigation.

Crop Types / Consumptive Use: Approximately 85% alfalfa, 10% barley, 5% pasture.

Return Flows: None

Other Operational Information: Typically turned on by mid-May, turned off beginning of September. Must go on turns later in summer.

Sources: Brad Merritt, Interview, February 5, 2002.

Data:

1993: 6/23, 10.11 cfs (upstream of sprinkler diversion), 6.57 cfs (downstream of sprinkler diversion).

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Ames & Gould Canal, Salt River

Diversion Description: The diversion for the Ames & Gould Canal is no longer in operating condition, and has not been used in over 15 years. The sources of water for the canal are return flows from the East Side Canal and runoff from tributaries east of Etna (i.e. Stewart Creek, possibly others) that enter the East Side Canal.

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 28, 36, 119

Conveyance Description: Open channel canal, approximately 7 miles in length. Only approximately 2 miles of the canal are currently in use.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
07-12-1902	4041	D, I	443.60	6.33	6.33	Not used
06-20-1904	1227E	I, S	548.29	7.82	14.15	Not used
11-14-1933	4925E	I, S	97.00	1.39	15.54	Not used

Storage Rights: None

Estimated Canal Losses: Unknown

Irrigation Practices: 100% Flood irrigation

Crop Types / Consumptive Use: 100% Pasture

Return Flows: None

Other Operational Information: Canal is currently used by one landowner, with irrigation covering approximately 800 acres.

Sources: Brian Perkes, Interview, February 1, 2002.

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Baker & Heap Canal, Salt River

Diversion Description: Concrete structure with 13 ft. x 4 ft headgate.

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 34, 35, 119

Conveyance Description: Open channel canal, approximately 5 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-27-1902	854E	Irrigation	193.00	2.74	2.74	
02-27-1905	1342E	Irrigation	154.87	2.20	4.94	
09-11-1908	1989E	Irrigation	289.49	4.13	9.07	
09-08-1913	3258E	I, S	88.00	1.26	10.33	

Storage Rights: None

Estimated Canal Losses: Unknown, canal is not lined.

Irrigation Practices: 90% sprinkler irrigation and 10% flood irrigation.

Crop Types / Consumptive Use: 60% alfalfa, 20% grain and 20% pasture.

Return Flows: No return flows.

Other Operational Information: Year round due to stock watering. Must go on turns later in summer.

Sources: Kendall Jenkins, Interview, December 14, 2001.

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Cottonwood Creek Irrigation District Pipeline, Cottonwood Creek

Diversion Description: Concrete headgate can divert practically entire stream. 20 ft. x 5 ft. inlet screen with ¼” openings for pipeline intake located adjacent to headgate structure.

Diversion Location:

Source: Cottonwood Creek, Trib. Salt River
Section, Township, Range: 04, 30, 118

Conveyance Description: Gravity flow pipeline, approximately 27 miles of pipe of various sizes. The system divides into three major laterals with sizes of 16”, 24”, and 36”.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
08-24-1887	TERR	Irrigation	520.00	7.70	7.70	
05-14-1888	TERR	Irrigation	855.00	12.70	20.40	
05-17-1888	TERR	Irrigation	180.00	2.70	23.10	
06-01-1888	TERR	Irrigation	40.00	0.60	23.70	
05-15-1889	TERR	Irrigation	145.00	2.20	25.90	
06-01-1890	TERR	Irrigation	60.00	0.90	26.80	
06-10-1891	TERR	Irrigation	40.00	0.60	27.40	
05-20-1893	493	Irrigation	333.00	4.74	32.14	
06-24-1893	534	Irrigation	200.00	2.91	35.05	
07-24-1893	TERR	Irrigation	40.00	0.60	35.65	
06-24-1895	148E	Irrigation	10.00	0.14	35.79	
07-05-1895	1032	Irrigation	80.00	1.13	36.92	
07-23-1895	1025	Irrigation	26.00	0.37	37.29	
01-24-1898	327E	Irrigation	70.00	1.00	38.29	
11-16-1898	390E	Irrigation	55.00	0.78	39.07	
06-02-1899	438E	Irrigation	435.00	6.19	45.26	
02-28-1900	516E	Irrigation	15.00	0.21	45.47	
08-16-1901	706E	Irrigation	100.00	1.43	46.90	
12-04-1901	754E	Irrigation	65.00	0.92	47.82	
05-31-1904	6024	Irrigation	280.00	3.97	51.79	
11-11-1904	6301	D, I	38.00	0.53	52.32	
11-11-1904	1290E	D, I	7.00	0.10	52.42	
01-30-1905	6430	Irrigation	80.00	1.13	53.55	

08-27-1906	1613E	Irrigation	60.00	0.86	54.41	
06-26-1907	1739E	Irrigation	60.00	0.85	55.26	
12-09-1907	1799E	Irrigation	90.00	1.27	56.53	
04-16-1908	1888E	Irrigation	174.66	2.49	59.02	
04-16-1908	1889E	Irrigation	45.34	0.64	59.66	
01-03-1916	3585E	Irrigation	34.00	0.49	60.15	
11-13-1920	4192E	Irrigation	28.75	0.41	60.56	
04-16-1956	5854E	Irrigation	40.00	0.57	61.13	
06-22-1970	23444	Irrigation	401.27	5.73	66.86	

Storage Rights: None

Estimated Canal Losses: NA

Irrigation Practices: 100% sprinkler irrigation.

Crop Types / Consumptive Use: 60% alfalfa; 20% pasture and 20% barley & oats.

Return Flows: No flow returns.

Other Operational Information: Turned on May 15th and turned off October 15th. Must go on turns later in summer.

Sources: Lawrence Welch, President, Cottonwood Creek Irrigation District, Interview, December 12, 2001.

Dale Barnes, Water Master, Interview, various dates.

Data:

1998

Date	Reading	Date	Reading	Date	Reading
05/31/98	15,650 cfs	07/22/98	28,600 cfs	08/18/98	21,200 cfs
06/03/98	15,250 cfs	07/23/98	28,800 cfs	08/19/98	17,900 cfs
06/29/98	12,050 cfs	07/27/98	25,700 cfs	08/20/98	16,200 cfs
07/03/98	12,050 cfs	07/28/98	28,000 cfs	08/21/98	13,400 cfs
07/06/98	18,250 cfs	07/31/98	26,700 cfs	08/24/98	18,300 cfs
07/07/98	19,250 cfs	08/02/98	25,300 cfs	08/26/98	16,300 cfs
07/08/98	20,250 cfs	08/06/98	26,400 cfs	08/27/98	18,800 cfs
07/10/98	19,950 cfs	08/07/98	26,900 cfs	08/29/98	17,300 cfs
07/14/98	21,350 cfs	08/08/98	27,400 cfs	09/02/98	14,500 cfs
07/15/98	24,000 cfs	08/10/98	24,700 cfs	09/04/98	13,050 cfs
07/16/98	25,300 cfs	08/11/98	26,500 cfs	09/05/98	16,050 cfs
07/17/98	26,200 cfs	08/13/98	25,700 cfs	09/13/98	10,450 cfs
07/20/98	26,500 cfs	08/14/98	22,100 cfs	09/26/98	6,000 cfs

07/21/98	25,800 cfs	08/17/98	22,500 cfs		
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Some partial system data readings are available for 1997, 1999, 2000, and 2001.

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Crow Creek Canal, Crow Creek

Diversion Description: Concrete diversion struction across stream with a headgate 18 ft. x 4 ft, can put in boards.

Diversion Location:

Source: Crow Creek, Trib. Salt River
Section, Township, Range: 34, 32, 119

Conveyance Description: Ditch is approximately 7 miles long.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-00-1887	TERR	Irrigation	780.00	11.30	11.30	
05-05-1887	TERR	Irrigation	850.00	12.15	23.45	
06-10-1888	TERR	Irrigation	80.00	1.14	24.59	
11-12-1897	284E	Irrigation	40.00	0.57	25.16	
07-05-1899	452E	Irrigation	80.00	1.13	26.29	

Storage Rights: None

Estimated Canal Losses: Losses are believed to be significant, estimated to be up to 75%.

Irrigation Practices: 10-15% Sprinkler irrigation, 85-90% Flood irrigation.

Crop Types / Consumptive Use: 33% alfalfa, 33% native hay, and 33% pasture.

Return Flows: Generally no return flows.

Other Operational Information: Turned on approximately mid April and turned off approximately mid November. Must go on turns in summer.

Sources: Joe Nield, Interview, December 14, 2001.

Data:

2000: 7/7, 35.7 cfs; 7/27, 23.8 cfs.

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Dana Ditch, Titensor Springs, North Spring Creek, Osborne Spring Creek

Diversion Description: Water is collected from the various springs as listed.

Diversion Location:

Source: Titensor Springs, North Spring Creek, Osborne Spring Creek, Trib. Salt River Section, Township, Range: 13, 34, 119 and 2, 34, 119

Conveyance Description: Dana Ditch is an open channel canal approximately 3 miles long which then goes into a pipeline with a length of approximately 3.5 miles.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
10-20-1904	6304	Irrigation	325.00	4.63	4.63	
08-08-1908	1943E	Irrigation	82.00	1.17	5.80	
10-24-1902	5121	Irrigation	160.00	2.28	8.08	
12-30-1903	5787	Irrigation	151.00	2.15	10.23	

Storage Rights: None

Estimated Canal Losses: Unknown

Irrigation Practices: 100% sprinkler irrigation

Crop Types / Consumptive Use: Approximately 2/3 alfalfa and 1/3 grains (barley).

Return Flows: Water is typically run over the pipeline intake screen to reduce collected debris. This wash water then proceeds down a return ditch to Cedar Creek. The quantity of water in the return ditch is not known.

Other Operational Information: Ditch is turned on the beginning of June and turned off the beginning of September. However, there is a small stream running through year round for stock purposes. Must go on turns later in summer.

Sources: Ron Crook, Interview, December 28, 2001.

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Dry Creek Irrigation District Pipeline, Dry Creek

Diversion Description: Concrete headgate on Dry Creek, 3 to 4 ft. x 6 ft. (approx.) gates. Three settling ponds, intake structure with grate.

Diversion Location:

Source: Dry Creek, Trib. Salt River
Section, Township, Range: 08, 31, 118

Conveyance Description: Pipeline with approximate length of 18 miles.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
04-26-1887	TERR	Irrigation	80.00	1.20	1.20	
05-12-1887	TERR	Irrigation	280.00	4.20	5.40	
07-15-1887	TERR	Irrigation	200.00	2.90	8.30	
04-26-1888	TERR	Irrigation	145.00	2.20	10.50	
05-02-1888	TERR	Irrigation	30.00	0.50	11.00	
04-28-1889	TERR	Irrigation	175.00	2.70	13.70	
05-02-1889	TERR	Irrigation	35.00	0.50	14.20	
05-15-1890	TERR	Irrigation	60.00	0.90	15.10	
06-18-1890	TERR	Irrigation	40.00	0.60	15.70	
06-20-1890	TERR	Irrigation	20.00	0.40	16.10	
05-07-1892	271	Irrigation	90.00	1.40	17.50	
10-28-1892	356	Irrigation	30.00	0.50	18.00	
03-28-1893	448	Irrigation	15.00	0.30	18.30	
05-12-1893	479	Irrigation	85.00	1.21	19.51	
05-26-1893	497	Irrigation	100.00	1.42	20.93	
07-01-1894		Irrigation	20.00	0.40	21.33	
02-16-1895	98E	Irrigation	60.00	0.86	22.19	
05-07-1895	115E	Irrigation	295.00	4.21	26.40	
06-05-1895	119E	Irrigation	150.00	2.14	28.54	
06-05-1895	122E	Irrigation	225.00	3.21	31.75	
06-24-1895	152E	Irrigation	100.00	1.43	33.18	
06-29-1895	129E	Irrigation	140.00	1.99	35.17	
07-10-1895	134E	Irrigation	10.00	0.16	35.33	
07-24-1895	140E	D, I, S	40.00	0.60	35.93	

07-26-1895	142E	Irrigation	230.00	3.28	39.21	
11-20-1895	167E	Irrigation	93.30	1.33	40.54	
02-21-1898	316E	Irrigation	13.30	0.19	40.73	
03-04-1898	1770	Irrigation	60.00	0.85	41.58	
07-02-1898	351E	D, I	100.00	1.42	43.00	
10-28-1899	2334	Irrigation	120.00	1.71	44.71	
02-16-1905	1343E	Irrigation	44.00	0.63	45.34	
06-16-1920	4147E	Irrigation	30.00	0.43	45.77	
03-21-1968	23151	Irrigation	386.00	5.51	51.28	

Storage Rights: None

Estimated Canal Losses: NA

Irrigation Practices: All sprinkler irrigation.

Crop Types / Consumptive Use: 15% – 20% barley, 10% pasture and the remainder alfalfa. There are also significant acres of residential use (10%).

Return Flows: No return flows.

Other Operational Information: Turn on the end of April and turn off the end of October. Must go on turns later in summer.

Sources: Kim Tippetts, Dry Creek Irrigation District, Interview, December 6, 2001.

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East Side Canal, Salt River

Diversion Description: Diversion consists of two headgates, each approximately 12' by 4'.

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 35, 34, 119

Conveyance Description: Open channel canal, approximately 15 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
08-08-1904	1266E	D, I, S	3935.31	56.10	56.10	
09-29-1911	2562E	Irrigation	178.00	2.54	58.64	
01-22-1919	4009E	Irrigation	320.00	4.57	63.21	
11-14-1933	4996E	D, I, S	343.34	4.90	68.11	
07-24-1942	5331E	Irrigation	7.00	0.10	68.21	
10-21-1952	5774E	D, I, S	60.00	0.86	69.07	
04-16-1968	6277E	Irrigation	18.00	0.26	69.33	

Storage Rights: None

Estimated Canal Losses: Unknown, however evaporation losses are evident on hot days. Canal is not lined.

Irrigation Practices: 90% Sprinkler irrigation, 10% flood irrigation.

Crop Types / Consumptive Use: Approximately 60% Alfalfa, 30% small grains, 10% pasture.

Return Flows: very little if any

Other Operational Information: Canal is generally in use from the beginning of June to the end of October. Must go on turns late in summer, generally due to inability to divert from Salt River when flows are low.

Sources: Kendall Jenkins, Interview, December 14, 2001.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Freedom Canal, Salt River

Diversion Description: Concrete with boards, with a 20 ft. x 4 ft. opening.

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 04, 34, 119

Conveyance Description: Open channel canal with length of approximately 2.5 miles.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
07-14-1902	4051	Irrigation	30.00	0.42	0.42	
10-24-1902	5122	Irrigation	55.00	0.79	1.21	
12-13-1906	1680E	Irrigation	137.00	1.94	3.15	
02-27-1907	1679E	Irrigation	16.00	0.23	3.38	
08-05-1933	5832E	I, S	580.57	8.28	11.66	

Storage Rights: None.

Estimated Canal Losses: Unknown, canal is not lined.

Irrigation Practices: 60% sprinkler irrigation and 40% flood irrigation.

Crop Types / Consumptive Use: 60% alfalfa, 30% grain and 10% pasture.

Return Flows: None

Other Operational Information: Runs year round. Must go on turns later in summer.

Sources: Kendall Jenkins, Interview, December 14, 2001.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Halling Ditch, Swift Creek

Diversion Description: 3' x 3' slide gate, located in a concrete wall that includes diversion gates for three other canals and ditches.

Diversion Location:

Source: Swift Creek, Trib. Salt River
Section, Township, Range: 30, 32, 118

Conveyance Description: Open channel canal, approximately 2 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-01-1888	TERR	D, I	469.96	8.18	8.18	
11-15-1888	TERR	D, I	80.00	1.20	9.38	
04-13-1895	113E	Irrigation	80.00	1.14	10.52	
05-08-1895	116E	Irrigation	240.00	3.43	13.95	
11-20-1895	168E	Irrigation	80.00	1.14	15.09	
08-06-1920	4149E	Irrigation	34.00	0.49	15.58	
05-23-1947	5441E	I, S	46.00	0.66	16.24	

Storage Rights: None

Estimated Canal Losses: Unknown

Irrigation Practices: 80% flood irrigation and 20% sprinkler irrigation. Some lands are currently not irrigated.

Crop Types / Consumptive Use: 90% pasture and 10% alfalfa and barley.

Return Flows: No return flows.

Other Operational Information: Ditch is turned on the beginning of April and turned off the beginning of November. Must go on turns later in summer.

Sources: O.D. Gardner, Interview, December 10, 2001.

Data:

1998: 8/6, 4.1M.

1999: 7/8, 14.8M; 8/4, 9.4M; 8/19, 1E.

2000: 7/27, 5.5 cfs.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Hardman Canal, Strawberry Creek

Diversion Description: Serves the East Side Irrigation District.

Diversion Location:

Source: Strawberry Creek, Trib. Salt River
Section, Township, Range: 27, 34, 118

Conveyance Description: Open channel canal, approximately 11 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-10-1909	9216	Irrigation	1490.00	21.23	21.23	
02-23-1915	3139E	I, S	80.00	1.14	22.37	
05-23-1918	3901	D, I, S	5.00	0.07	22.44	
07-12-1923	4579E	Irrigation	47.60	0.68	23.12	

Storage Rights: None

Estimated Canal Losses: Unknown, but do not appear to be large.

Irrigation Practices: 100% sprinkler irrigation.

Crop Types / Consumptive Use: 70% alfalfa, 20% grain and 10% pasture.

Return Flows: Can return to Birch Creek Waste Ditch, however, there is generally no return flow.

Other Operational Information: Turned on mid May and turned off mid September. Stock water runs until November. Canal generally has water throughout irrigation season, however irrigators must generally go on turns late in the season.

Sources: Marvin and Rayola Park, Interview, January 8, 2002.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Idaho Boundary Line Ditch, Stump Creek

Diversion Description:

Diversion Location:

Source: Stump Creek, Trib. Salt River
Section, Township, Range: 06, 32, 119

Conveyance Description: Ditch length is 2 to 3 miles long.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-20-1886	TERR	Irrigation	80.00	1.14	1.14	
06-01-1889	TERR	Irrigation	82.50	1.18	2.32	
06-15-1889	TERR	Irrigation	80.00	1.14	3.46	
07-01-1891	86	Irrigation	145.00	2.16	5.62	
07-04-1898	352E	Irrigation	32.00	0.46	6.08	
09-04-1900	577E	Irrigation	280.00	4.02	10.10	
09-24-1901	817E	Irrigation	40.00	0.57	10.67	
03-18-1902	798E	Irrigation	81.90	1.17	11.84	
02-28-1935	4989E	D, I, S	257.13	3.68	15.52	

Storage Rights: None.

Estimated Canal Losses: Unknown, but significant. Ditch is not lined.

Irrigation Practices: 50% sprinkler and 50% flood.

Crop Types / Consumptive Use: 45% alfalfa, 25% grain and 30% pasture.

Return Flows: No return flows.

Other Operational Information: Turned on May to June and turned off in November. Must go on turns later in summer.

Sources: Ron Stoltenberg, Interview, December 24, 2001.

Data:

1998: 8/6, 7.6M; 8/20, 6.7M.

1999: 7/8, 5.2M; 7/21, 7.8M; 8/4, 5.5M; 8/19, 5.6M.

2000: 7/27, 5.6 cfs.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Kirkbride Canal, Salt River

Diversion Description: A log diverts water into the canal through a 12 foot diameter culvert.

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 33, 35, 119

Conveyance Description: Ditch length is approximately 2 miles.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-01-1886	TERR	Irrigation	100.00	1.60	1.60	
05-15-1888	TERR	Irrigation	510.00	7.30	8.90	
05-25-1891	TERR	Irrigation	65.00	0.90	9.80	
07-14-1902	873E	Irrigation	424.50	6.03	15.83	
08-24-1908	1932E	Irrigation	46.26	0.65	16.48	
08-05-1933	5840E	I, S	337.40	4.82	21.30	

Storage Rights: None

Estimated Canal Losses: Unknown, canal is not lined.

Irrigation Practices: 95% sprinkler irrigation and 5% flood irrigation.

Crop Types / Consumptive Use: 60% Alfalfa, 30% small grains, 10% pasture.

Return Flows: Up to 10% may return.

Other Operational Information: Runs year round due to stock use. Must go on turns later in summer.

Sources: Kendall Jenkins, Interview, December 14, 2001.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

North Canal, Swift Creek

Diversion Description: Two 6' x 3' slide gates, located in a concrete wall that includes diversion gates for three other canals and ditches.

Diversion Location:

Source: Swift Creek, Trib. Salt River
Section, Township, Range: 30, 32, 118

Conveyance Description: Open channel canal, approximately 7 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-10-1888	TERR	D, I	776.00	11.60	11.60	
04-01-1895	106E	Irrigation	80.00	1.14	12.74	
04-01-1895	108E	Irrigation	70.00	1.00	13.74	
04-11-1895	110E	Irrigation	35.00	0.50	14.24	
04-11-1895	111E	Irrigation	60.00	0.86	15.10	
06-05-1895	120E	Irrigation	62.00	0.88	15.98	
06-05-1895	124E	Irrigation	1096.70	15.64	31.62	
06-05-1895	118E	Irrigation	69.86	0.99	32.61	
05-26-0899	430E	Irrigation	80.00	1.15	33.76	
07-31-1899	474E	Irrigation	40.00	0.57	34.33	
03-29-1902	809E	Irrigation	286.00	4.06	38.39	
12-03-1942	5333E	I, S	84.00	1.21	39.60	
04-18-1945	5391E	I, S	54.00	0.78	40.38	

Storage Rights: None

Estimated Canal Losses: Possibly 30% to 40%. Canal is not lined.

Irrigation Practices: 15% sprinkler irrigation and 85% flood irrigation.

Crop Types / Consumptive Use: 55% alfalfa, 35% grain and 10% pasture.

Return Flows: None

Other Operational Information: Turned on mid May and turned off November. Must go on turns later in summer.

Sources: Rowan Anderson, Interview, December 21, 2001.

Data:

1997: 9/14, 23.40M.

1999: 8/4, 61.1M; 8/19, 36.5 M.

2000: 5/23, 0.0 cfs; 7/12, 0.0 cfs; 7/27, 16.8 cfs; 8/2, 0.0 cfs; 9/25, 0.0 cfs.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Porto Canal, Cedar Creek

Diversion Description: A concrete structure across Cedar Creek diverts water into a 24” pipe while keeping rocks and gravel in the stream. The pipe empties into an earthen settling pond, then flows into the transmission pipe.

Diversion Location:

Source: Cedar Creek, Trib. Salt River
Section, Township, Range: 05, 34, 118

Conveyance Description: Over 8 miles of pipe with various sizes. Main transmission pipe is 21” diameter. West Cedar Pipeline lateral is nearly 4 miles of additional pipe.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-01-1889	TERR	D, I	140.00	2.10	2.10	
05-27-1895	982	Irrigation	120.00	1.71	3.81	
06-24-1898	1867	Irrigation	240.00	3.40	7.21	
06-18-1900	550E	D, I	320.00	4.55	11.76	
07-22-1901	688E	D, I	80.00	1.14	12.90	
06-03-1902	3985	Irrigation	200.00	2.85	15.75	
05-19-1983	6862E	Power		0.47	16.22	
09-25-1985	6864E	Irrigation	194.61	2.78	19.00	
02-17-1998	7268E	Irrigation	183.00	2.61	21.61	
02-17-1998	7269E	Irrigation	57.00	0.81	22.42	
02-17-1998	7270E	S, D		0.00	22.42	2 taps, stock, domestic

Storage Rights: None

Estimated Canal Losses: None

Irrigation Practices: 100% sprinkler irrigation.

Crop Types / Consumptive Use: 60% alfalfa, 35% barley and 5% pasture.

Return Flows: No return flows.

Other Operational Information: Turned on the beginning of May and turned off the end of October. Must go on turns later in summer.

Sources: Val Pendleton, President, Porto Irrigation District, Interview, December 5, 2001.

Data:

1996: 7/5, 26.90M; 7/15, 24.21M; 7/26, 22.75M; 8/15, 16.52M; 9/15, 12.61M.

1998: Porto Pipeline: 9/4, 5.4M.

W. Cedar Pipeline: 9/4, 2.7M.

1999: W. Cedar Lateral: 7/21, 0.9M; 8/4, 0.3M; 8/19, 2.2M.

Irr. Dist. Lateral: 7/21, 7.8M; 8/4, 8.9M; 8/19, 8.5M.

2000: W. Cedar Lateral: 7/6, 1.3 cfs; 7/9, 1.8 cfs; 7/10, 1.4 cfs; 7/27, 1.3 cfs; 8/1, 1.6 cfs.

Irr. Dist. Lateral: 7/6, 9.8 cfs; 7/9, 10.2 cfs; 7/10, 8.9 cfs; 7/27, 8.5 cfs; 8/1, 8.2 cfs.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Salt River Canal, Salt River

Diversion Description: 16' x 4' headgate with boards (not in good shape).

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 36, 31, 119

Conveyance Description: Open channel canal which splits into two canals approximately ½ mile below diversion. Each canal has a length of approximately 5 miles. Canals serve the Fairview Irrigation District.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-01-1886	TERR	Irrigation	748.34	11.24	11.24	
06-01-1889	TERR	Irrigation	65.00	1.00	12.24	
06-25-1889	TERR	Irrigation	132.97	1.87	14.11	
06-01-1890	TERR	Irrigation	115.00	1.70	15.81	
06-01-1891	TERR	Irrigation	180.00	2.70	18.51	
06-25-1892	TERR	Irrigation	15.00	0.30	18.81	
07-01-1892	TERR	Irrigation	60.00	0.90	19.71	
07-10-1892	133E	Irrigation	1130.00	16.10	35.81	
11-16-1898	389E	Irrigation	65.00	0.93	36.74	
03-05-1945	5387E	I, S	11.00	0.16	36.90	
03-05-1945	5388E	I, S	11.00	0.16	37.06	
04-11-1947	6535E	Irrigation	47.00	0.67	37.73	

Storage Rights: None

Estimated Canal Losses: Estimated to be up to 1/3 of the stream at times throughout the length of the canal.

Irrigation Practices: Approximately 1/3 flood irrigation and 2/3 sprinkler.

Crop Types / Consumptive Use: Typically 15% barley, with the remaining crops consisting on alfalfa and pasture grass. However, in 2001 only about 60 acres were in grain.

Return Flows: Return flows only in times of excess water in the spring. Generally, during summer and fall there are no return flows.

Other Operational Information: Canal in use typically from beginning of May to end of October. Entire stream of Salt River is typically diverted by late summer. Salt River was totally diverted by July 25 in 2000 and by May 8 in 2001. Must go on turns later in summer.

Sources: Casey Erickson, Water Master, Interview, December 6, 2001.
Gary Crook, Fairview Irrigation District, Interview, December 6, 2001.

Data:

1999: 7/21, 83M; 8/19, 34.7M

2000: 7/27, 6.6 cfs.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Stewart Creek Pipeline, Stewart Creek

Diversion Description: Concrete headgate structure with pipe inlet, stop logs used to divert water into inlet.

Diversion Location:

Source: Stewart Creek, Trib. Salt River
Section, Township, Range: 24, 36, 118

Conveyance Description: Gravity flow pipeline with approximate length over 7 miles.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-07-1901	3157	D, I	105.00	1.50	1.50	
08-10-1905	6850	Irrigation	80.00	1.14	2.64	
08-09-1907	7961	Irrigation	120.00	1.71	4.35	
06-18-1909	9217	Irrigation	158.30	2.26	6.61	
09-03-1909	2109E	Irrigation	150.70	2.15	8.76	
08-29-1921	4239E	Irrigation	34.00	0.49	9.25	
03-26-1934	19538	I, S	119.00	1.70	10.95	
06-11-1963	22702	Irrigation	316.00	4.51	15.46	
10-21-1963	6171E	Irrigation	1.40	0.02	15.48	

Storage Rights: None

Estimated Canal Losses: None

Irrigation Practices: 100% sprinkler irrigation.

Crop Types / Consumptive Use: Unknown.

Return Flows: None

Other Operational Information: Recent priority filings may only get water for a month before it is turned off. Older priority filings generally have some water for 2nd crop. System turn on and off times vary year to year depending upon runoff, etc.

Sources: Sybil Crook, Interview, December 21, 2001.

Forsgren Associates, Stewart Creek Irrigation Pipeline Level II Study Final Report, December 1993.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Strawberry North Canal, Strawberry Creek

Diversion Description: Diversion from Strawberry Creek is shared with Hardman Canal.

Diversion Location:

Source: Strawberry Creek, Trib. Salt River
Section, Township, Range: 27, 34, 118

Conveyance Description: Open channel canal, approximately 7 miles in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-21-1887	TERR	Irrigation	218.00	3.30	3.30	
10-06-1889	TERR	Irrigation	120.00	1.50	4.80	
07-05-1890	TERR	Irrigation	16.00	0.30	5.10	
05-29-1891	TERR	Irrigation	300.00	4.42	9.52	
10-03-1891	TERR	Irrigation	85.00	1.30	10.82	
06-01-1892	TERR	Irrigation	100.00	1.50	12.32	
06-24-1895	127E	Irrigation	568.91	8.38	20.70	
06-24-1895	128E	Irrigation	136.00	1.94	22.64	
08-20-1895	153E	Irrigation	140.00	2.00	24.64	
08-21-1895	154E	Irrigation	265.00	3.78	28.42	
09-09-1895	156E	Irrigation	160.00	2.27	30.69	
05-13-1896	198E	Irrigation	210.00	3.00	33.69	
08-11-1903	1112E	Irrigation	60.00	0.86	34.55	
10-27-1904	1284E	Irrigation	40.00	0.57	35.12	
03-26-1923	4521E	Municipal		1.50	36.62	
09-08-1932	4884E	Irrigation	4.00	0.57	37.19	
04-07-1964	6192E	Irrigation	7.00	0.10	37.29	

Storage Rights: None

Estimated Canal Losses: Canal losses are up to 10%.

Irrigation Practices: 30% Flood irrigation, 70% sprinkler irrigation.

Crop Types / Consumptive Use:

Return Flows:

Other Operational Information: Must go on turns later in summer.

Sources: Jade Henderson, Superintendent, Water District IV, Regulation List, November 2001.
Forsgren Associates, Strawberry Canal Rehabilitation Project Level II Feasibility Study,
November 1997.

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Strawberry Upper Canal, Strawberry Creek

Diversion Description: Unknown

Diversion Location:

Source: Strawberry Creek, Trib. Salt River
Section, Township, Range: 27, 34, 118

Conveyance Description: Open channel canal, approximately 1 mile in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-01-1888	TERR	Irrigation	240.00	3.54	3.54	
00-00-1889	TERR	Irrigation	80.00	1.14	4.68	
06-01-1891	TERR	Irrigation	80.00	1.20	5.88	
09-30-1891	TERR	Irrigation	200.00	2.91	8.79	
11-12-1891	173	Irrigation	40.00	0.60	9.39	
06-20-1892	298	Irrigation	80.00	1.14	10.53	
07-13-1895	136E	Irrigation	800.00	11.42	21.95	
07-13-1895	137E	Irrigation	607.00	8.67	30.62	
07-18-1895	139E	Irrigation	80.00	1.14	31.76	
08-20-1895	153E	Irrigation	90.00	1.29	33.05	
09-27-1895	158E	Irrigation	30.00	0.43	33.48	
06-08-1896	207E	Irrigation	80.00	1.14	34.62	
03-16-1900	512E	Irrigation	62.00	0.89	35.51	
02-24-1906	1506E	Irrigation	40.00	0.57	36.08	
06-17-1909	2172E	Irrigation	40.00	0.57	36.65	
12-17-1920	16510	Irrigation	12.00	0.17	36.82	
02-05-1921	4311E	Irrigation	69.25	0.99	37.81	
02-11-1921	16124	Irrigation	13.00	0.19	38.00	
03-26-1923	4521E	Irrigation	80.00	1.14	39.14	
10-24-1961	6220E	Irrigation	26.10	0.38	39.52	

Storage Rights: None

Estimated Canal Losses: Unknown

Irrigation Practices: Unknown

Crop Types / Consumptive Use: Unknown

Return Flows: Unknown

Other Operational Information: Must go on turns later in summer.

Sources:

**Snake/Salt River Basin Planning Study
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Union Canal, Salt River

Diversion Description: Unknown

Diversion Location:

Source: Salt River, Trib. Snake River
Section, Township, Range: 22, 35, 119

Conveyance Description: Unknown

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
08-26-1903	6083	Irrigation	991.00	14.15	14.15	
08-05-1933	5791E	I, S	37.70	0.54	14.69	

Storage Rights: None

Estimated Canal Losses: Unknown

Irrigation Practices: Unknown

Crop Types / Consumptive Use: Unknown

Return Flows: Unknown

Other Operational Information: Unknown

Sources:

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Black Rock, Black Rock Creek

Diversion Location:

Source: Black Rock Creek, Trib. Buffalo Fork or Creek
Section, Township, Range: S31, T45, R112
General: Located behind Black Rock Ranger Station

Diversion Description: Concrete box with screw-top head gate.

Conveyance Description: Open ditch approximately 15,000 feet in length with diversion boxes.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit #	Permitted Use*	Acres	Flow, cfs (2 cfs/70 ac)	Cumulative Flow, cfs	Comments
05-16-1941	5305E	D,I,S	32	.92	.92	
01-13-1953	5658E	I,S	80	2.28	3.2	
06-18-1900	2851	I	120	3.42	6.62	
04-16-1913	11812		70	2	8.62	
01-09-1930	4653E	D,I	432	12.34	20.96	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: none known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Hatchet Ranch

Source: Don Barney

**Snake/Salt River Basin Planning Study
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Description and Operation Memorandum**

Gaffney, Buffalo Fork or Creek

Diversion Location:

Source: Buffalo Fork or Creek, Trib. Snake River

Section, Township, Range: See comments for location

Diversion Description: Unknown

Conveyance Description: Open channel ditch approximately 10,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
09-20-1913	12032	D,I	117	3.34	3.34	Point of diversion changed from 36-45-113 to L6-45-113
09-20-1913	12032	D,I	123	3.51	6.85	See comment above
10-13-1971	6413E	I	252	7.20	14.05	25-45-113
09-20-1913	12032	D,I	278.01	7.94	21.99	See first comment

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: none known

Estimated Canal Losses: Unknown

Irrigation Practices: stock ponds, flood irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information:

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Adams, Little Gros Ventre River or Flat Creek

Diversion Location:

Source: Little Gros Ventre River or Flat Creek, Trib. Snake River
Section, Township, Range: S6, T40, R116

Diversion Description: Concrete basin with drop box

Conveyance Description: Open ditch approximately 95,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
07-24-1914	3003E	D,I	16	.45	.45	
09-24-1896	1333	D,I,S	37.75	1.08	1.53	
09-24-1896	1333	D,I,S	40	1.14	2.67	
09-24-1896	1333	I	80	2.28	4.95	
09-24-1896	1333	D,I	80	2.28	7.23	
09-24-1896	1333	D,I,S	80	2.28	9.51	
09-24-1896	1333	D,I,S	94.97	2.71	12.22	Point of diversion and means of conveyance for 40 acres changed to Wilson Ditch from 6-40-116 to 18-40-116. Voluntary abandonment of 25.03 acres and .36 cfs, 11/18/1982
09-24-1896	1333	I,S	132	3.77	15.99	
09-24-1896	1333	D,I,S	145	4.14	20.13	
09-24-1896	1333	D,I	150	4.28	24.41	Point of diversion and means of conveyance changed to Wilson Ditch from 6-40-116 to 18-40-116
09-24-1896	1333	D,I,S	160	4.57	28.98	
09-24-1896	1333	I	320	9.14	38.12	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: none known

Estimated Canal Losses: Unknown

Irrigation Practices: stock ponds, flood irrigation, domestic irrigation and livestock

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: South Park Ditch Company (Robert Gill or Kelly Lockhart)

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Lost Springs, Little Gros Ventre River or Flat Creek

Diversion Location:

Source: Little Gros Ventre River or Flat Creek, Trib. Snake River
Section, Township, Range: S34, T42, R115

Diversion Description: Wood or concrete

Conveyance Description: Open channel

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow , cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
06-10-1910	2374E	D,I	120	3.43	3.43	
07-24-1908	8619	D,I	155	4.42	7.85	
06-10-1910	2374E	D,I	160	4.58	12.42	
07-24-1908	8619	I	305	8.72	21.14	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: CHECK W/ REFUGE

Crop Types / Consumptive Use: *Unknown*

Return Flows: Unknown

Other Operational Information: Diversion and ditch are now in the Elk Refuge. Does not appear to be used.

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Cyclone, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River

Section, Township, Range: See comments for location

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 6,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
08-17-1899	2241	D,I	5	.14	.14	POD and means of conveyance changed to White Ditch (34-42-116), from 26-42-116
10-14-1901	715E	D,I	17	.48	.62	26-42-116
08-17-1899	2241	D,I	20	.57	1.19	See First Comment
08-17-1899	2241	D,I	40	1.14	2.33	26-42-116
10-14-1901	715E	D,I	60	1.71	4.04	26-42-116
08-17-1899	2241	D,I	120	3.43	7.68	26-42-116
08-17-1899	2241	D,I	120	3.43	11.11	See First Comment
8-17-1899	2441		133.05	3.80	14.91	
			145.9	4.17	19.08	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: approximately 300 acres sprinkler irrigation, remainder flood irrigation

Crop Types / Consumptive Use: crops unlikely

Return Flows: Unknown

Other Operational Information: Jackson Hole Golf and Tennis

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Enterprise, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S24, T42, R116

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 5,500 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
07-15-1914	2992E	D,I	70	2.00	2.00	
06-15-1904	6095	I	73	2.08	4.08	
02-17-1906	1504E	I	135	3.86	7.93	
07-15-1914	2992E	I	530.67	15.16	23.09	
1904	6095		527.22	15.06	38.15	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information:

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Hobo, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S24, T42, R116

Diversion Description: Concrete box with screw gate (Enterprise Ditch)

Conveyance Description: Open channel ditch approximately 5,500 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
10-12-1899	2317	D,I,S	50	1.43	1.43	Point of diversion and means of conveyance changed to Enterprise Ditch, 24-42-116
01-25-1901	617E	I	50	1.43	2.86	See above comment
10-12-1899	2317	D,I,S	70	2.00	4.86	See above comment
01-25-1901	617E	I	88	2.51	7.37	See above comment
07-24-1908	2001E	I	175	5.00	12.37	See above comment
10-12-1899	2317	D,I,S	200	5.71	18.08	See above comment

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Confluences with the Enterprise ditch

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
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Hot Springs, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S11, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 5,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
04-16-1902	814E	I	23	.66	.66	
04-27-1907	1707E	I	23	.66	1.32	
07-31-1899	2208	I	40	1.14	2.46	Adjudicated as from Gros Ventre River and Warm Springs
04-16-1902	814E	I	57	1.63	4.09	
07-31-1899	2208	D,I	60	1.71	5.80	
07-31-1899	2208	I	120	3.42	9.22	
07-05-1910	2268E	D,I,S	157	4.48	13.70	
07-31-1899	2208	I	160	4.57	18.27	
07-31-1899	2208	D,I	270	7.71	25.98	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Teton Valley Ranch

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Savage, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S1, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 15,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
06-18-1934	4975E	D,I	20	.57	.57	
06-18-1934	4975E	D,I	20	.57	1.14	
06-18-1934	4975E	D,I	20	.57	1.71	
04-01-1922	4335E	D,I	20.68	.59	2.30	Original supply is from Ditch Creek through Enl. Kissinger Ditch, permit 1078E
06-18-1934	4975E	D,I	29	.83	3.12	
02-17-1913	2855E	D,I	40	1.14	4.26	
06-18-1934	4975E	D,I	66.18	1.89	6.15	
02-17-1913	2855E	D,I	75	2.14	8.29	
05-15-1911	10707	I	80	2.28	10.57	
06-18-1934	4975E	D,I	90	2.57	13.14	
06-18-1934	4975E	D,I	100	2.86	16.0	
05-15-1911	10707	D,I	180	5.14	21.14	
06-18-1934	4975E	D,I	180	5.14	26.28	
06-18-1934	4975E	D,I	320	9.14	35.42	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: Grand Teton National Park

Crop Types / Consumptive Use: None

Return Flows: Unknown

Other Operational Information: Grand Teton National Park, all water may not be utilized

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Mormon Row, Mud Springs

Diversion Location:

Source: Mud Springs, Trib. Ditch Creek
Section, Township, Range: S2, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 12,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
09-25-1929	17697	D,I	70	2.00	2.00	
09-25-1929	17697	D,I	70	2.00	4.00	
09-25-1929	17697	D,I	140	4.00	8.00	
09-25-1929	17697	D,I	140	4.00	12.00	
09-25-1929	17697	D,I	140	4.00	16.00	
09-25-1929	17697	D,I	140	4.00	20.00	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: Grand Teton National Park

Crop Types / Consumptive Use: None

Return Flows: Unknown

Other Operational Information: Grand Teton National Park, all water may not be utilized

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
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Ideal, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S1, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 10,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
04-19-1902	3833	D,I,S	23	.66	.66	
08-20-1903	1107E	D,I	37	1.06	1.72	
08-20-1903	1107E	D,I	80	2.28	4.00	Point of diversion and means of conveyance changed to Newbold Ditch (1-42-115), to 10-42-115
08-20-1903	1107E	D,I	98.5	2.82	6.82	
08-20-1903	1107E	D,I	135	3.86	10.86	See above comment
05-07-1913	2824.5E	D,I	150	4.28	14.96	See above comment
07-12-1912	2669E	D,I	216	6.18	21.14	Point of diversion and means of conveyance for 196 acres changed to Newbold Ditch (1-42-115), to 10-42-115
05-07-1913	2824.5E	D,I	296	8.46	29.60	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: Grand Teton National Park

Crop Types / Consumptive Use: None

Return Flows: Unknown

Other Operational Information: Grand Teton National Park, all water may not be utilized

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Sebastian, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S10, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 40,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
07-15-1902	884E	I	80	2.28	2.28	Point of diversion and conveyance changed to Newbold Ditch, 10-42-115
06-18-1900	2666	I	90	2.58	4.86	See above comment
04-04-1911	2428E	D,I	125	3.58	8.44	See above comment
08-25-1902	907E	I	160	4.57	13.01	See above comment
06-18-1900	2666	I	450	12.86	25.87	Point of diversion and means of conveyance for 130 acres changed to Mesa Ditch, 17-42-115; 320 acres changed to Newbold Ditch, 10-42-115

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None Known

Estimated Canal Losses: Unknown

Irrigation Practices: None known

Crop Types / Consumptive Use: None known

Return Flows: Unknown

Other Operational Information: Most rights are probably held by GTNP, ditch may serve some subdivisions.

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Spring Gulch Irr, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S34, T42, R116

Diversion Description:

Conveyance Description: Open channel ditch approximately 36,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
10-20-1919	4040E	D,I	12	.34	.34	
02-24-1902	785E	I	40	1.14	1.48	
07-05-1910	2269E	D,I	120	3.42	4.90	
02-28-1898	1789	I	140	4.00	8.90	
02-08-1901	622E	I,S	140	4.00	12.90	
02-07-1921	4252E	D,I	140	4.00	16.90	
02-28-1898	1789	I	240	6.86	23.76	
02-28-1898	1789	I	250	7.14	30.90	
08-01-1921	4253E	D,I	252.8	7.22	38.12	
02-28-1898	1789	I	320	9.14	47.26	
02-28-1898	1789	I	320	9.14	56.40	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Hansen Ranch, Mead Ranch and Lucas Ranch

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

South Park Supply, Gros Ventre River

Diversion Location:

Source: Gros Ventre, Trib. Snake River
Section, Township, Range: S18, T42, R115

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel and 4' diameter pipe from the Gros Ventre to Flat Creek. Approximately 80,000 feet of open channel canal, and 20,000 feet of pipeline.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
01-22-1932	4800E	D,I	.96	.02	.02	
01-02-1932	18086	D,I	6.5	.18	.20	
			7.4	.22	.42	
09-08-1952	5638E	I	10	.28	.70	
01-02-1932	18086	D,I	21	.60	1.30	Appropriation diverted through South Park Supply Ditch to Flat Creek, thence through Wilson & Ealy Ditch & East Side Ditch, 8-40-116, from Adams Springs to the lands.
04-29-1966	6238E	I,S	24.1	.68	1.98	
04-21-1955	5806E	I	27.1	.78	2.76	
01-22-1932	4800E	D,I	30	.86	3.62	
09-08-1952	5638E	I	30	.86	4.48	
01-22-1932	4800E	D,I	36.19	1.04	5.52	
01-22-1932	4800E	D,I	37	1.06	6.58	
			42.43	1.22	7.80	
01-22-1932	4800E	D,I	53	1.52	9.32	
04-29-1966	6238E	I,S	56	1.60	10.92	
			64	1.82	12.74	
09-08-1952	5638E	I	68	1.94	14.68	
01-22-1932	4800E	D,I	69	1.98	16.66	
01-22-1932	4800E	D,I	74	2.12	18.78	
			79.47	2.28	21.06	

09-08-1952	5638E	I	79.84	2.28	23.34	
01-22-1932	4800E	D,I	80	2.28	25.62	
09-08-1952	5638E	I	112	3.20	28.82	
09-08-1952	5638E	I	120	3.42	32.24	
			157.75	4.50	36.74	
			158.6	4.54	41.28	
01-22-1932	4800E	D,I	160	4.58	45.86	
01-22-1932	4800E	D,I	160	4.58	50.44	
01-22-1932	4800E	D,I	160	4.58	55.02	
01-22-1932	4800E	D,I	191.1	5.46	60.48	
			199.97	5.72	66.20	
01-22-1932	4800E	D,I	200	5.72	71.92	
			223.62	6.38	78.30	
01-22-1932	4800E	D,I	365	10.42	88.72	
01-22-1932	4800E	D,I	390	11.14	99.86	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: This ditch is diverted from the Gros Ventre and dumped into Flat Creek until it is diverted for the Manning, Leek, Adams, Wilson and several others.

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Last Chance, Granite Creek

Diversion Location:

Source: Granite Creek, Trib. Fish Creek
Section, Township, Range: S19, T42, R116

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 30,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
08-01-1914	3011E	D,I	40	1.14	1.14	Adjudicated as from West Fork or Channel Granite Creek.
06-24-1907	7793	I	125	3.58	4.72	Point of diversion for 93 acres and 1.33 cfs changed to 19-42-116; and point and means of conveyance for 10 acres and .14 cfs changed to the No Name Ditch, 19-42-116; and point of diversion and means of conveyance for 22 acres and .31cfs changed to Hazel Ditch, 19-42-116
06-24-1907	7793	I	135	3.86	8.58	Point of diversion for 56 acres and .8 cfs changed to 19-42-116; and point and means of conveyance for

						79 acres and 1.13 cfs changed to the No Hazel, 19-42-116. The original point of diversion of the Last Chance Ditch completely and permanently closed off to the satisfaction of the division superintendent.
11-03-1911	2552E	D,I	155	4.42	13.0	
07-18-1914	3002E	D,I	160	4.58	21.79	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Snake River Ranch

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
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Pioneer, Granite Creek

Diversion Location:

Source: Granite Creek, Trib. Fish Creek
Section, Township, Range: S1, T41, R117

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 22,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
07-31-1908	8643	D,I	1	.02	.02	
07-31-1908	8643	D,I	1.55	.04	.06	
07-31-1908	8643	D,I	5	.14	.20	
07-31-1908	8643	D,I	5	.14	.34	
07-31-1908	8643	D,I	7	.20	.54	
07-31-1908	8643	D,I	8.2	.24	.78	
07-31-1908	8643	D,I	46.75	1.34	2.12	
07-31-1908	8643	D,I	75.14	2.14	4.26	
07-31-1908	8643	D,I	120	3.42	7.68	
09-13-1985	6818E	I,Res	162.2	4.64	12.32	
07-31-1908	8643	D,I	235	6.72	19.04	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation, Res = Reservoir

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: HHR Subdivision, Teton Pines, Earl Hardeman

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Granite Creek Supplemental, Snake River

Diversion Location:

Source: Snake River

Section, Township, Range: S9, T42, R116

Diversion Description: Concrete with three 36”diameter screw gates

Conveyance Description: open channel

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
08-08-1952	5636E	I,S	150	4.28	4.28	
02-27-1951	20629	I,S	782.3	22.36	26.64	
10-02-1981	6807E	I,S	386.61	5.52	32.16	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Ditch confluences with Granite Creek

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Iron Rock, Snake River

Diversion Location:

Source: Snake River

Section, Township, Range: S13, T41, R117

Diversion Description: Concrete with screw gate

Conveyance Description: Open channel ditch approximately 20,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
05-19-1902	3910	D,I,S	20	.58	.58	
01-17-1955	5783E	I,S	31	.88	1.31	
01-17-1955	5783E	I,S	105	3.0	4.46	
01-14-1960	5996E	I,S	116	3.32	7.78	
05-19-1902	3910	D,I,S	190	5.42	13.20	
05-27-1965	6147E	I,S	208.63	5.96	19.16	
05-19-1902	3910	D,I,S	213	6.08	25.24	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Walton Ranch, Puzzle Face Ranch, Crane Creek Ranch

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Prosperity, Snake River

Diversion Location:

Source: Snake River

Section, Township, Range: S13, T41, R117

Diversion Description: Concrete with screw gates

Conveyance Description: Open channel ditch approximately 25,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
12-02-1903	5689	I	18	.52	.52	
04-26-1948	5469E	I	33	.94	1.46	
04-26-1948	5469E	I	36.39	1.04	2.50	
04-26-1948	5469E	I	39	1.12	3.62	
12-02-1903	5689	I	54	1.54	5.16	
04-26-1948	5469E	I	55	1.58	6.74	
05-14-1959	5957E	I	58	1.66	8.40	
04-26-1948	5469E	I	66	1.88	10.28	
12-02-1903	5689	I	104	2.98	13.26	
12-02-1903	5689	I	120	3.42	16.68	
03-13-1911	2424E	I	134	3.82	20.50	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Scofield Patton Subdivision, Don Barney property

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Wolff, Spread Creek

Diversion Location:

Source: Spreak Creek, Trib. Snake River
Section, Township, Range: S13, T44, R114

Diversion Description:

Conveyance Description: Open channel ditch approximately 10,000 feet in length.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow, cfs (2 cfs/ac)	Cumulative Flow (cfs)	Comments
11-11-1897	1653	I	40	1.14	1.14	
11-11-1897	1653	I	40	1.14	2.28	
08-20-1923	4419E	D,I	82.12	2.34	4.62	
08-02-1909	2090E	D,I	146.07	4.18	8.80	
08-02-1909	2090E	D,I	148	4.22	13.02	
08-02-1909	2090E	D,I	150	4.28	17.30	
08-02-1909	2090E	D,I	155	4.42	21.72	
08-02-1909	2090E	D,I	155	4.42	26.14	
11-11-1897	1653	D,I	160	4.58	30.72	
11-11-1897	1653	D,I,S	160	4.58	35.30	
11-11-1897	1653	I	187	5.34	40.64	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Flood Irrigation

Crop Types / Consumptive Use: Grass hay mix, stock and pasture

Return Flows: Unknown

Other Operational Information: Probably goes into GTNP

Sources: Don Barney

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Todd, Darby or Good Fellow Creek

Diversion Location:

Source: Darby or Good Fellow Creek, Trib. Teton River
Section, Township, Range: S30, T43, R118

Diversion Description: Concrete box with screw head gates

Conveyance Description: Open channel canal with length of approximately 20,000 feet.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit Number	Permitted Use*	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
01-19-1949	20214	I	2227.2	31.82	31.82	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Sprinkler

Crop Types / Consumptive Use: Alfalfa, Alfalfa/grass mix, barley, oats, wheat

Return Flows: None

Other Operational Information: Nearly all land served by ditch is in Idaho.

Sources: Jim Wilson

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

South Side Canal, Teton Creek

Diversion Location:

Source: Teton Creek, Trib. Teton River
Section, Township, Range: S22, T44, R118

Diversion Description: Concrete box with screw head gates, diversion in Teton Canyon

Conveyance Description: Open channel canal with length of approximately 20,000 feet.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit #	Permitted Use*	Acres	Flow, cfs (2 cfs/70 ac)	Cumulative Flow, cfs	Comments
10-02-1906	7420	I	15	.42	.48	
10-02-1906	7420	I	17	.48	.96	
10-02-1906	7420	I	23.47	.67	1.63	
10-02-1906	7420		39	1.14	2.77	
10-02-1906	7420	I	39.54	1.14	3.91	
10-02-1906	7420		40	1.14	5.05	
10-02-1906	7420		80	2.28	7.33	
10-02-1906	7420		40	1.14	8.47	
10-02-1906	7420		59.43	1.70	10.17	
10-02-1906	7420		64.1	1.83	12.0	
10-02-1906	7420		65	1.86	13.86	
10-02-1906	7420		68.82	1.96	15.82	
10-02-1906	7420		76	2.17	17.99	
10-02-1906	7420		80	2.28	20.27	
10-02-1906	7420		80	2.28	22.55	
10-02-1906	7420		111.7	3.19	25.74	
10-02-1906	7420		115	3.28	29.02	
10-02-1906	7420		116	3.31	32.33	
10-02-1906	7420		120	3.43	35.76	
10-02-1906	7420		131	3.74	39.50	
9-06-1935	5093E	I,D	40	1.14	40.64	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Sprinkler

Crop Types / Consumptive Use: Alfalfa, Alfalfa/grass mix, barley, oats, wheat, potatoes

Return Flows: None

Other Operational Information: Approximately 585 acres are located in Idaho.

Sources: Jim Wilson

**Snake/Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

North Side Canal, Teton Creek

Diversion Location:

Source: Teton Creek, Trib. Teton River
Section, Township, Range: S23, T44, R118

Diversion Description: Concrete box with screw head gates, diversion in Teton Canyon

Conveyance Description: Open channel with approximate length of 30,000 feet.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit #	Permitted Use*	Acres	Flow, cfs (2 cfs/70 ac)	Cumulative Flow, cfs	Comments
4-9-1962	6338E	I	16.9	.48	.48	Enl. Of Northside
4-9-1962	6338E	I	40	1.14	1.62	Enl. Of Northside
4-11-1896	1190	I	38.53	1.10	2.72	Central canal
4-11-1986	1190	I	135	3.86	6.58	Central canal
4-11-1896	1190	I	130	3.71	10.29	Central canal
4-11-1986	1190	I	275	7.86	18.15	Central canal
8-8-1905	6840	I	40	0.57	18.72	Pratt
8-8-1905	6840	I, D	75	1.07	19.79	Pratt
1-15-1906	7168	I	75	1.07	20.86	Brown-Clement
1-15-1906	7168	I	40	1.14	22.0	Brown-Clement
10-02-1906	7421	I, D	42	1.2	23.2	Dalley
10-02-1906	7421	I	34	0.97	24.17	Dalley-Hulett
4-20-1912	11413	I, D	640.12	18.29	42.46	Brown-Clement
4-20-1912	11413	I	40	1.14	43.6	Brown-Clement
1-19-1961	6311E	I	44	0.63	44.23	Enl. Of Brown-Clement

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Sprinkler

Crop Types / Consumptive Use: Alfalfa, Alfalfa/grass mix, barley, oats, wheat, potatoes

Return Flows: None

Other Operational Information: North side canal is a combination of the Brown-Clement ditch, Pratt ditch, Central ditch, and the Dalley ditch. The North Side Pipeline comes off of the Northside ditch. Approximately 160 acres are located in Idaho.

Sources: Jim Wilson

**Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Wyoming & Darby Bench Canal, Darby Creek

Diversion Location:

Source: Darby Creek, Trib. Teton River
Section, Township, Range: S20, T43, R118

Diversion Description: Concrete box with screw head gates

Conveyance Description: Open channel canal with approximate length of 15,000 feet.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit #	Permitted Use*	Acres	Flow, cfs (2 cfs/70 ac)	Cumulative Flow, cfs	Comments
9-11-1896	1332	I	1828.11	52.23	53.23	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: None known

Estimated Canal Losses: Unknown

Irrigation Practices: Sprinkler

Crop Types / Consumptive Use: Alfalfa, Alfalfa/grass mix, barley, oats, wheat, potatoes

Return Flows: None

Other Operational Information: Nearly all land served by ditch is in Idaho.

Sources: Jim Wilson

**Salt River Basin Planning Study
Key Structures and Diversions
Description and Operation Memorandum**

Squirrel Creek Irrigation Co. Canal, Indian Lake Creek

Diversion Location:

Source: Indian Lake Creek, Trib. Squirrel Creek
Section, Township, Range: S5, T47, R118

Diversion Description: Concrete box with screw head gates, diversion north of Driggs near Badger Creek

Conveyance Description: Open channel canal with approximate length of 15,000 feet.

Wyoming Water Rights Summary:

Priority Date (M-D-Y)	Permit #	Permitted Use*	Acres	Flow, cfs (2 cfs/70 ac)	Cumulative Flow, cfs	Comments
11-10-1949	21146	I	800	22.85	22.85	
1-20-1953	21147	I	800	22.85	45.70	

* Permitted Use Symbols: D = Domestic, S = Stock, I = Irrigation

Storage Rights: Indian Lake Res., Permit #6000R, 1953
And Bergman Lake Res., Permit #6001R, 1953

Estimated Canal Losses: Unknown

Irrigation Practices: Sprinkler

Crop Types / Consumptive Use: Alfalfa, Alfalfa/grass mix, barley, oats, wheat, potatoes

Return Flows: None

Other Operational Information: Water from Wyoming, but all irrigated lands in Idaho

Sources: Jim Wilson