Water Division IV

District 3

Botero Ditch, Smith's Fork River

Diversion Description: Information not available at time of report.

Diversion Location:

Source: Smith's Fork River, Trib. Black's Fork River, Trib. Green River
Section, Township, Range: 18, 13, 115

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
03-29-1911	10562	Domestic, Irrigation	160.00	2.28	2.28	
10-04-1915	3525E	Domestic, Irrigation	800.00	11.42	13.70	

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Return Flows are delivered to Smith's Fork above Black's Fork.

Other Operational Information: Information not available at time of report.

Botero Ditch, Smith's Fork River, Diversion Data

No Diversion Data Available.

C.M. Larson Ditch, Cottonwood Creek

Diversion Description: Information not available at time of report.

Diversion Location:

Source: Cottonwood Creek, Trib. Smith's Fork River, Trib. Black's Fork River, Trib. Green River

Section, Township, Range: 18, 15, 113

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
09-16-1908	8742	Irrigation	220.00	3.14	3.14	
02-14-1916	3588E	Domestic, Irrigation	152.80	2.18	5.32	
01-21-1945	5385E	Irrigation, Stock	538.84	7.70	13.02	

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Return flows are delivered to Cottonwood Creek above Smith's Fork..

Other Operational Information: Information not available at time of report.

C.M. Larson Ditch, Cottonwood Creek, Diversion Data

No Diversion Data Available.

Co-operative Ditch, East Fork Smith's Fork River

Diversion Description: Information not available at time of report.

Diversion Location:

Source: East Fork Smith's Fork River, Trib. Smith's Fork River, Trib. Black's Fork River, Trib. Green River

Section, Township, Range: 32, 13, 115

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
10-05-1918	3948E	Irrigation	465.00	6.64	6.64	
03-07-1946	5419E	Domestic, Irrigation	454.00	6.48	13.12	Supplementary Supply for 5.00 acres with Original Supply from Rocky Spring

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Approximately 75% of the return flows are delivered to East Fork Smith's Fork above the Tipperary Ditch, and 25% to East Fork Smith's Fork above the Botero Ditch.

Other Operational Information: Information not available at time of report.

Co-operative Ditch, East Fork Smith's Fork River, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984			2.87	170.78						
1985			4.39	261.22						
1986			5.79	344.53	2.31	142.04				
1987			2.52	149.95	3.21	197.38	3.76	231.19	0.98	58.31
1988										
1989										
1990										
1991					2.05	126.05				
1992			1.86	110.68	0.65	39.97				
1993			6.69	398.08	2.30	141.42				
1994			2.25	133.88	1.46	89.77				
1995			9.38	576.75	2.81	172.78				
1996							0.09	5.53	1.34	79.74
1997					1.58	97.12	0.00	0.00	0.47	27.77
1998							0.85	52.26	0.47	27.97
Averages:			4.47	268.23	2.05	125.82	1.18	72.25	0.82	48.45

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

Co-operative Ditch, East Fork Smith's Fork River, Diversion Data

Data:

1984: 6/1, 4.1 cfs; 6/15, 3.4 cfs; 7/6, off.

1985: 5/13, 4.8 cfs; 5/23, 6.4 cfs; 6/4, 4.7 cfs; 6/8, 6.1 cfs; 6/20, 4.7 cfs; 6/27, 1.9 cfs; 7/4, 1.9 cfs; 7/11, 6.7 cfs.

1986: 6/2, off; 6/12, 10.17 cfs; 6/24, 5.39 cfs; 7/10, off; 7/31, 5.53 cfs.

1987: 5/16, 3.9 cfs; 6/3, 5.4 cfs; 6/22, off; 7/9, 5.7 cfs; 7/16, off; 7/30, 5.0 cfs; 8/13, 3.1 cfs; 8/20, 3.0 cfs; 9/3, 5.4 cfs; 9/10, 9/24, off.

1991 (all est): 6/22, 3 cfs; 6/24, 0 cfs; 7/1, 3 cfs; 7/4, 2 cfs; 7/11, 2 cfs; 7/18, 3.5 cfs; 7/25, 1.5 cfs; 8/1, 0 cfs.

1992 (all est): 6/4, 2.00 cfs; 6/9, 2.00 cfs; 6/11, 0.00 cfs; 6/25, 3.00 cfs; 6/29, 5.00 cfs; 7/2, 0.00 cfs; 7/9, 2.00 cfs; 7/16, 1.50 cfs.

1993: 6/2, 7.17 cfs; 6/4, 8.63 cfs; 6/14, 7.62 cfs; 6/28, 5.68 cfs; 7/2, 0.00 cfs; 7/6, 0.00 cfs; 7/8, 4.05 cfs; 7/15, 5.25 cfs; 7/20, 5.25 cfs; 7/22, 0.00 cfs; 7/29, 0.00 cfs; 8/5, 4.05 cfs; 8/12, 3.08 cfs.

1994: 5/19, 11.2 cfs (arrive), 6.6 cfs (depart); 5/31, 0.0 cfs (arrive), 2.0 cfs (depart); 6/7, 2.0 cfs (arrive), 3.1 cfs (depart); 6/14, 3.1 cfs (arrive), 2.0 cfs (depart); 6/21, 2.0 cfs; 6/28, 2.0 cfs; 7/5, 1.9 cfs; 7/12, 1.7 cfs; 7/19, 1.8 cfs; 7/26, 1.8 cfs (arrive), 0.0 cfs (depart).

1995: 6/20, 11.26 cfs; 7/14, 10.53 cfs; 7/18, 10.00 cfs; 7/25, 8.79 cfs; 8/1, 3.96 cfs; 8/8, 2.75 cfs (arrive), 1.92 cfs (depart); 8/15, 4.05 cfs (arrive), 2.01 cfs (depart); 8/29, 3.56 cfs (arrive), 0.50 cfs (depart); 9/5, 3.93 cfs (arrive), 2.97 cfs (depart); 9/12, 2.98 cfs (arrive), off (depart)

1996: 5/29, 5.00 cfs (est); 8/6, 8/13, 8/27, off; 9/3, 1.5 cfs (est) (arrive), 2.3 cfs (depart); 9/10, 2.86 cfs (arrive), 2.82 cfs (depart); 9/17, 1.82 cfs (arrive), 0.96 cfs (depart); 9/24, 0 cfs.

1997: 6/25, 3.44 cfs; 6/27, 2.86 cfs (arrive), 0.0 cfs (depart); 7/1, 0.0 cfs (arrive), 2.86 cfs (depart); 7/8, 2.86 cfs (arrive); 1.92 cfs (depart); 7/15, 1.92 cfs (arrive), 2.42 cfs (depart); 7/22, 2.01 cfs (arrive), 0.0 cfs (depart); 7/29, 8/5, 8/12, 8/19, 9/2, 9/9, 0.0 cfs; 9/16, 1.5 cfs (est); 9/23, 1.0 cfs (est).

1998: 8/4, 8.79 cfs (arrive), off (depart); 8/11, 8/18, 8/25, off; 9/1, 9/8, dry; 9/15, off; 9/22, off (arrive), 2 cfs (depart); 9/29, 2 cfs (arrive), off (depart).

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.

Davis and Company Ditch, Smith's Fork Creek

Diversion Description: Diversion consists of a single 3' by 4' slide gate mounted on a concrete structure. A concrete and plank diversion dam exists.[1]

Diversion Location:

Source: Smith's Fork Creek, Trib. Black's Fork River, Trib. Green River
Section, Township, Range: SW¼ NW¼ 30, 14, 115

Conveyance Description: Open Channel Canal, approximately 8 miles in length.[1]

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
05-24-1907	8086	Domestic, Irrigation	462.13	6.59	6.59	
02-01-1909	2028E	Irrigation	157.50	2.25	8.84	
03-30-1910	2207E	Domestic, Irrigation	480.00	6.84	15.68	
07-13-1910	2273E	Domestic, Irrigation	140.00	2.00	17.68	
10-04-1910	2314E	Domestic, Irrigation	242.93	3.47	21.15	
02-23-1918	3883E	Irrigation	318.00	4.54	25.69	
06-17-1924	4411E	Irrigation	67.98	0.97	26.66	

Storage Rights: None.

Estimated Canal Losses: Considerably greater than typical (20-25%).[1]

Irrigation Practices: Lands are flood irrigated.[1]

Crop Types / Consumptive Use: Approximately 160 acres of the lands are planted with alfalfa hay; remaining lands are native grass hay and pasture.[1]

Return Flows: Return flows are delivered to the Smith's Fork Creek.[1]

Other Operational Information: Water users who have storage rights in reservoirs located in Utah are restricted to a May 15th ditch turn-on date, and a October 1st turn-off date. Other water uses may

Davis and Company Ditch, Smith's Fork Creek

use water from the ditch when not regulated by priority date. Typically, the ditch is turned on during the third week on April.[1]

Sources: 1) John Yarbrough, State Engineer's Office, Interview, May 4, 2000.

Davis and Company Ditch, Smith's Fork Creek, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984			10.19	606.35						
1985			9.28	552.20	5.72	351.71				
1986			16.60	987.77						
1987			13.36	794.98	4.14	254.56	6.00	368.93	2.57	152.93
1988										
1989										
1990										
1991					4.16	255.79	6.25	384.30	5.79	344.53
1992										
1993					8.91	547.85				
1994			10.09	600.40	4.54	279.15	1.00	61.49	1.79	106.51
1995					15.08	927.23	10.27	631.48	2.51	149.36
1996										
1997					8.31	510.96	4.68	287.76	5.20	309.42
1998							6.79	417.50	0.57	33.92
Averages:			11.90	708.34	7.27	446.75	5.83	358.58	3.07	182.78

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

Davis and Company Ditch, Smith's Fork Creek, Diversion Data

Data:

1984: 6/1, 14.5 cfs; 6/15, 10.2 cfs; 7/6, 5.2 cfs.

1985: 5/23, 12.8 cfs; 6/8, 13.3 cfs; 6/13, 12.6 cfs; 6/20, off; 6/20, 11.7 cfs; 6/27, 4.4 cfs; 7/4, 7.2 cfs; 7/11, 8.9 cfs; 7/18, 4.4 cfs; 7/25, 4.4 cfs; 8/1, 2.4 cfs.

1986: 6/2, 16.51 cfs; 6/12, 19.94 cfs; 6/24, 15.00 cfs; 7/14, 16.00 cfs.

1987: 5/16, 19.7 cfs; 6/3, 21.1 cfs; 6/22, 6.2 cfs; 6/24, 12.4 cfs; 7/2, 10.4 cfs; 7/16, 2.9 cfs; 7/23, off; 8/6, 5.0 cfs; 8/13, 13.6 cfs; 8/20, 2.9 cfs; 8/27, 2.9 cfs; 9/3, 7.2 cfs; 9/10, 2.4 cfs; 9/17, 2.4 cfs; 9/24, 1.5 cfs.

1991: 7/11, 9.74 cfs; 7/18, 6.96 cfs; 7/25, 4.07 cfs; 8/1, 5.01 cfs; 8/15, 8.51 cfs; 8/20, 8.51 cfs; 8/22, 3.05 cfs; 8/24, 3.05 cfs; 8/29, 6.05 cfs; 9/5, 3.05 cfs; 9/19, 6.59 cfs; 9/23, 6.59 cfs; 9/26, 9.95 cfs; 10/3, 4.22 cfs.

1993: 6/17, 25.69 cfs; 6/28, 21.90 cfs; 7/10, 8.84 cfs; 7/11, 6.59 cfs; 7/15, 12.61 cfs; 7/29, 1.68 cfs; 8/5, 4.07 cfs; 8/12, 3.19 cfs.

1994: 5/20, 27.2 cfs (arrive), 25.4 cfs (depart); 5/31, 24.3 cfs; 6/2, 21.3 cfs; 6/11, 21.3 cfs (arrive), 5.7 cfs (arrive), 4.4 cfs (depart); 6/29, 4.4 cfs; 7/5, 4.4 cfs (arrive), 8.9 cfs (depart); 7/6, 9.0 cfs (arrive), 10.6 cfs (depart); 7/12, 10.6 cfs (arrive), 6.4 cfs (depart); 7/17, 3.6 cfs; 7/19, 1.6 cfs; 7/26, 1.6 cfs; 8/18, 1.0 cfs; 8/24, 1.0 cfs; 8/26, 1.0 cfs; 8/30, 0.0 cfs; 9/6, 1.2 cfs; 9/13, 3.8 cfs; 9/20, 2.0 cfs; 9/26, 2.0 cfs.

1995: 6/26, 28.48 cfs; 7/6, 13.55 cfs; 7/12, 21.73 cfs; 7/18, 14.76 cfs; 7/25, 9.95 cfs; 8/2, 13.08 cfs; 8/15, 10.55 cfs (arrive), 13.55 cfs (depart); 8/22, 13.65 cfs; 8/29, off; 9/5, 13.65 cfs (arrive), 9/5, 1.00 cfs (est) (depart); 9/13, 1.50 cfs (est); 9/19, 1.50 cfs (est) (arrive), 3.05 cfs (depart); 9/26, 3.01 cfs.

1997: 6/26, 15.5 cfs; 6/28, 15.5 cfs; 6/30, 16.4 cfs (arrive), 7.15 cfs (depart); 7/1, 7.15 cfs (arrive), 10.8 cfs (depart); 7/8, 9.53 cfs (arrive), 13.6 cfs (depart); 7/15, 12.4 cfs (arrive), 7.53 cfs (depart); 7/22, 6.41 cfs (arrive), 1.8 cfs (depart); 7/24, 1.8 cfs (arrive), 6.47 cfs (depart); 7/29, 6.41 cfs (arrive), 3.62 cfs (depart); 8/5, 3.62 cfs; 8/12, 2.92 cfs (arrive), 2.03 cfs (depart); 8/19, 1.64 cfs (arrive), 5.4 cfs (depart); 8/26, 6.05 cfs (arrive), 9.11 cfs (depart); 9/2, 9.11 cfs; 9/9, 9.11 cfs (arrive), 4.07 cfs (depart); 9/16, 5.36 cfs (arrive), 7.15 cfs (depart); 9/24, 5.36 cfs.

1998: 8/4, 4.54 cfs; 8/11, 5.36 cfs; 8/18, 7.15 cfs; 8/25, 7.15 cfs (arrive), 12.2 cfs (depart); 9/1, 11.25 cfs; 9/8, 9.1 cfs (arrive), 8.1 cfs (depart); 9/15, 8.11 cfs (arrive), 5.03 cfs (depart); 9/22, 5.4 cfs (arrive), 1.9 cfs (depart); 9/29, 3 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.

J.R.G. Ditch, East Fork Smith's Fork River

Diversion Description: Information not available at time of report.

Diversion Location:

Source: East Fork Smith's Fork River, Trib. Smith's Fork River, Trib. Black's Fork River, Trib. Green River

Section, Township, Range: 20, 13, 115

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
09-15-1916	14461	Irrigation	659.00	9.41	9.41	
05-12-1921	4214E	Irrigation	130.50	1.87	11.28	
05-12-1949	5471E	Domestic, Irrigation	762.50	10.88	22.16	

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Return Flows are delivered to Smith's Fork above Black's Fork.

Other Operational Information: Information not available at time of report.

J.R.G. Ditch, East Fork Smith's Fork River, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984			18.72	1,113.92						
1985	11.86	729.24	14.22	846.15						
1986			18.96	1,128.20						
1987			14.27	849.12	5.79	356.01	4.90	301.29	2.96	176.13
1988										
1989										
1990										
1991					6.49	399.05	5.59	343.72	5.80	345.12
1992										
1993			21.06	1,253.16	7.44	457.47				
1994	5.46	335.72	2.78	165.42	0.94	57.80	0.00	0.00	0.00	0.00
1995					16.81	1,033.61	8.14	500.51	6.23	370.71
1996										
1997					5.23	321.58	5.75	353.55	1.76	104.73
1998							5.23	321.58	3.34	198.74
Averages:	8.66	532.48	15.00	892.66	7.12	437.59	4.94	303.44	3.35	199.24

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

J.R.G. Ditch, East Fork Smith's Fork River, Diversion Data

Data:

1984: 6/1, 28.8 cfs; 6/15, 21.3 cfs; 7/6, off.

1985: 5/13, 17.8 cfs; 5/23, 19.9 cfs; 6/4, 19.9 cfs; 6/8, 22.2 cfs; 6/13, off; 6/14, 10.0 cfs; 6/20, 13.6 cfs; 7/4, 14.0 cfs; 7/11, 4.5 cfs.

1986: 6/2, 14.76 cfs; 6/12, 24.21 cfs; 6/24, 19.94 cfs; 7/10, off.

1987: 5/16, 21.1 cfs; 6/3, 23.0 cfs; 6/19, 14.8 cfs; 6/22, 11.7 cfs; 6/24, off; 7/2, 9.3 cfs; 7/9, 9.3 cfs; 7/16, 6.4 cfs; 7/23, off; 7/30, 5.0 cfs; 8/13, 10.0 cfs; 8/20, off; 9/3, 4.4 cfs; 9/10, 9.3 cfs; 9/17, 9/24, off.

1991: 6/22, 18.8 cfs; 6/24, 0 cfs; 7/4, 3.77 cfs; 7/11, 16.5 cfs; 7/18, 0 cfs; 7/25, 3.92 cfs; 8/1, 10.1 cfs; 8/5, 10.1 cfs; 8/8, 11.9 cfs; 8/10, 11.9 cfs; 8/12, 11.9 cfs; 8/15, 0 cfs; 8/29, 3.06 cfs; 9/5, 9.11 cfs; 9/9, 9.11 cfs; 9/12, 9.11 cfs; 9/16, 9.11 cfs; 9/19, 0 cfs; 9/26, 4.54 cfs; 10/3, 0 cfs.

1992: 6/1, 25.64 cfs; 6/2, 12.15 cfs; 6/3, 0.00 cfs.

1993: 6/2, 14.76 cfs; 6/14, 24.20 cfs; 6/28, 25.76 cfs; 7/2, 0.00 cfs; 7/4, 9.40 cfs; 7/6, 9.40 cfs; 7/8, 8.91 cfs; 7/10, 6.99 cfs; 7/15, 13.55 cfs; 7/20, 13.55 cfs; 7/22, 6.59 cfs; 7/29, 0.00 cfs; 8/5, 4.07 cfs; 8/12, 13.08 cfs.

1994: 5/14, 4.7 cfs (arrive), 4.2 cfs (depart); 5/18, 18.7 cfs (arrive), 16.0 cfs (depart); 5/19, 16.3 cfs (arrive), 12.2 cfs (depart); 5/31, 4.5 cfs (arrive), 6.8 cfs (depart); 6/7, 6.8 cfs (arrive), 2.3 cfs (depart); 6/12, 0.0 cfs; 6/14, 0.0 cfs (arrive), 5.0 cfs (depart); 6/21, 5.5 cfs (arrive), 0.0 cfs (depart); 6/28, 0.0 cfs; 7/5, 0.0 cfs (arrive), 3.8 cfs (depart); 7/12, 4.5 cfs (arrive), 0.0 cfs (depart); 7/19, 7/26, 8/10, 8/18, 8/24, 8/30, 9/6, 9/13, 9/20, 9/26, 0.0 cfs.

1995: 6/20, 26.60 cfs; 7/14, 16 cfs; 7/18, 18.6 cfs; 7/25, 14.03 cfs; 8/1, 12.38 cfs; 8/8, 8.91 cfs (arrive), 10.80 cfs (depart); 8/15, 10.16 cfs; 8/22, 10.16 cfs (arrive), 4.86 cfs (depart); 8/29, 4.70 cfs (arrive), off (depart); 9/5, off (arrive), 4.86 cfs (depart); 9/12, 5.03 cfs (arrive), off (depart); 9/19, off (arrive), 8.91 cfs (depart); 9/26, 8.91 cfs (arrive), off (depart).

1997: 6/25, 20.0 cfs (arrive), 14.2 cfs (depart); 6/27, 14.2 cfs (arrive), 2.27 cfs (depart); 7/1, 2.27 cfs (arrive), 4.54 cfs (depart); 7/8, 4.54 cfs (arrive), 3.62 cfs (depart); 7/15, 3.62 cfs (arrive), 9.11 cfs (depart); 7/22, 8.71 cfs (arrive), 4.54 cfs (depart); 7/29, 4.54 cfs (arrive), 3.62 cfs (depart); 8/5, 3.62 cfs (arrive), 0.0 cfs (depart); 8/12, 8.71 cfs (arrive), 6.05 cfs (depart); 8/19, 6.23 cfs (arrive), 10.2 cfs (depart); 9/2, 3.19 cfs (arrive), 1.0 cfs (est) (depart); 9/9, 1.0 cfs; 9/16, 1.0 cfs (arrive), 5.03 cfs (depart); 9/23, 5.03 cfs.

1998: 8/4, 12.38 cfs (arrive), 7.15 cfs (depart); 8/11, 7.15 cfs (arrive), off (depart); 8/18, 4.22 cfs (arrive), 8.51 cfs (depart); 8/25, 8.51 cfs (arrive), 10.8 cfs (depart); 9/1, dry; 9/8, off (arrive), 5 cfs (depart); 9/15, 5.03 cfs (arrive), 3.18 cfs (depart); 9/22, 3.8 cfs (arrive), 5.4 cfs (depart); 9/29, 6.2 cfs (arrive), 9.1 cfs (depart).

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.

Kidman-Wall Ditch, East Fork Smith's Fork Creek

Diversion Description: Diversion consists of two 4' by 4' steel sliding gates mounted on a concrete structure. A small rock diversion dam exists.[1]

Diversion Location:

Source: Smith's Fork Creek, Trib. Black's Fork River, Trib. Green River
Section, Township, Range: 23, 15, 115

Conveyance Description: Open Channel Canal.[1]

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
11-07-1896	1390	Irrigation	275.00	3.92		POD/MOC change from Erickson & Polson Ditch
11-23-1896	1371	Irrigation	298.00	4.25		
06-05-1897	258E	Irrigation	160.00	2.28		POD/MOC change from Erickson & Polson Ditch
10-27-1917	3824E	Irrigation	92.00	1.31		
01-24-1922	4278E	Domestic, Irrigation	160.62	2.29		

Storage Rights: None.

Estimated Canal Losses: No significant losses are experienced through the canal. In fact, significant gains are made from the Milich Ditch.[1]

Irrigation Practices: Lands are entirely flood irrigated.[1]

Crop Types / Consumptive Use: Water is used to irrigate almost entirely native grass hay.[1]

Return Flows: South Branch Smith's Fork.[1]

Other Operational Information:

Sources: 1) John Yarbrough, State Engineer's Office, Interview, May 4, 2000.

Kidman-Wall Ditch, East Fork Smith's Fork Creek, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984			24.51	1,458.45						
1985										
1986			23.06	1,372.17						
1987			23.51	1,398.94	1.85	113.75				
1988										
1989										
1990										
1991					8.34	512.81	2.20	135.27	3.35	199.34
1992										
1993			12.53	745.59	15.56	956.75				
1994			13.63	811.04	0.00	0.00	0.00	0.00	0.00	0.00
1995					11.67	717.56	6.28	386.14	7.72	459.37
1996							6.62	407.05	5.88	349.88
1997					1.95	119.90	0.00	0.00	2.62	155.90
1998									4.86	289.19
Averages:			19.45	1,157.24	6.56	403.46	3.02	185.69	4.07	242.28

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

Kidman-Wall Ditch, East Fork Smith's Fork Creek, Diversion Data

Data:

1984: 6/1, 28.8 cfs; 6/15, 24.0 cfs; 7/6, 21.0 cfs.
1986: 6/2, 8.20 cfs; 6/12, 26.74 cfs; 6/24, 27.94 cfs; 7/14, 22.49 cfs.
1987: 5/16, 19.9 cfs; 6/3, 21.8 cfs; 6/19, 32.1 cfs; 6/22, 21.8 cfs; 7/11, 7/13, 7/30, off.
1991: 7/3, 20.6 cfs; 7/5, 8.62 cfs; 7/10, 21.0 cfs; 7/12, 20.3 cfs; 7/18, 0 cfs; 7/26, 6.48 cfs; 8/5, 0 cfs; 9/5, 5.35 cfs; 9/12, 5.35 cfs; 9/21, 0 cfs; 10/3, 4.54 cfs.
1992: 6/5, 24.00 cfs.
1993: 6/16, 26.34 cfs; 6/30, 24.00 cfs; 7/7, 18.52 cfs; 7/23, 12.63 cfs; 7/30, 12.15 cfs; 8/7, 8/14, 0.00 cfs.
1994: 5/22, 22.1 cfs; 5/26, 22.5 cfs; 6/12, 21.0 cfs (arrive), 12.6 cfs (depart); 6/13, 16.8 cfs (arrive), 12.6 cfs (depart); 6/20, 10.8 cfs; 6/21, 10.8 cfs (arrive), 8.7 cfs (depart); 6/22, 8.7 cfs (arrive), 11.2 cfs (depart); 6/27, 8.0 cfs; 6/28, 9.0 cfs (arrive), 0.0 cfs (depart); 7/15, 7/25, 8/12, 8/17, 8/24, 9/7, 9/13, 9/19, 0.0 cfs.
1995: 6/23, 25.55 cfs; 7/13, 21.75 cfs; 7/21, 7/26, off; 8/4, 8/17, dry; 8/23, 13.59 cfs (arrive), 16.81 cfs (depart); 8/30, 17.49 cfs; 9/6, 13.59 cfs; 9/13, 13.59 cfs; 9/20, 2.00 cfs (est); 9/27, off.
1996: 8/8, 1.25 cfs (est); 8/28, 12.1 cfs (arrive), 20.3 cfs (depart); 9/4, 12.0 cfs; 9/11, 12.1 cfs (arrive), 3.52 cfs (depart); 9/20, 3.52 cfs; 9/26, 2.8 cfs.
1997: 7/1, 13.6 cfs (arrive), 0.0 cfs (depart); 7/9, 13.6 cfs (arrive), 0.0 cfs (depart); 7/17, 7/25, 0.0 cfs; 7/30, 0.0 cfs (arrive), 6.0 cfs (depart); 7/31, 6.0 cfs (arrive), 0.0 cfs (depart); 8/7, 8/14, 8/21, 8/29, off; 9/2, 0.0 cfs (arrive), 2.0 cfs (est) (depart); 9/10, 2.0 cfs (est) (arrive), 9.25 cfs (depart); 9/12, 10.6 cfs; 9/18, 3.62 cfs.
1998: 8/19, 7.95 cfs; 8/27, 7.95 cfs; 9/3, dry; 9/10, 6.7 cfs; 9/17, 5.36 cfs; 9/24, 6.7 cfs; 10/1, 3.5 cfs; 10/1, 3.52 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.

Milich Ditch, East Fork Smith's Fork Creek

Diversion Description: Diversion consists of two 3' by 4' steel sliding gates mounted on a concrete wall. A concrete and plank diversion dam across the river channel exists.[1]

Diversion Location:

Source: East Fork Smith's Fork Creek, Trib. Smith's Fork Creek, Trib. Black's Fork River, Trib. Green River

Section, Township, Range: 32, 13, 115

Conveyance Description: Open Channel Canal, approximately 20 miles in length.[1]

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
03-13-1915	13126	Domestic, Irrigation	3,689.47	52.76	52.76	
05-11-1920	4178E	Domestic, Irrigation	320.00	4.57	57.33	
01-18-1944	5369E	Res. Supply			57.33	Supply Ditch for Graham Reservoir.
04-04-1946	5452E	Domestic, Irrigation	170.00	2.43	59.76	

Storage Rights: None.

Estimated Canal Losses: Canal losses are considerably high due to the rocky nature of the soil.[1]

Irrigation Practices: Lands are entirely flood irrigated.[1]

Crop Types / Consumptive Use: Water is used to irrigate approximately 300 acres of alfalfa. Remainder of lands are pasture and native grass hay.[1]

Return Flows: Smith's Fork between Perry Draw and South Creek.

Other Operational Information:

Sources: 1) John Yarbrough, State Engineer's Office, Interview, May 4, 2000.

Milich Ditch, East Fork Smith's Fork Creek, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984										
1985	57.96	3,563.82	41.57	2,473.59	28.28	1,738.87	7.35	451.93		
1986			84.29	5,015.60	27.29	1,678.00				
1987			54.10	3,219.17	24.55	1,509.52	13.82	849.76	3.76	223.74
1988										
1989										
1990										
1991			37.14	2,209.98	27.05	1,663.24	11.61	713.87	9.14	543.87
1992			34.92	2,077.88	10.34	635.78				
1993			65.71	3,910.02	39.20	2,410.31				
1994	25.49	1,567.32	30.29	1,802.38	15.29	940.15	0.38	23.37		
1995					47.29	2,907.75	31.82	1,956.54	17.22	1,024.66
1996	37.36	2,297.00	68.77	4,092.00	30.64	1,884.00	18.83	1,158.00	14.97	891.00
1997	40.35	2,481.00	50.94	3,031.00	27.50	1,691.00	13.95	858.00	13.31	792.00
1998	27.86	1,713.00	43.81	2,607.00	59.67	3,669.00	17.29	1,063.00	11.48	683.00
Averages:	37.80	2,324.43	51.15	3,043.86	30.65	1,884.33	14.38	884.31	11.65	693.04

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

Milich Ditch, East Fork Smith's Fork Creek, Diversion Data

Data:

1985: 5/3, 44.0 cfs; 5/23, 72.2 cfs; 6/3, 68.1 cfs; 6/4, 64.7 cfs; 6/8, 72.2 cfs; 6/18, off; 6/20, 64.0 cfs; 6/27, 14.1 cfs; 7/4, 27.5 cfs; 7/11, 42.3 cfs; 7/18, 29.0 cfs; 7/25, 23.7 cfs; 8/1, 11.9 cfs; 8/16, 18.5 cfs.

1986: 6/2, 97.48 cfs; 6/12, 97.48 cfs; 6/24, 82.29 cfs; 7/14, off; 7/17, 36.76 cfs; 7/31, 26.54 cfs.

1987: 5/16, 36.8 cfs; 6/3, 82.3 cfs; 6/19, 68.9 cfs; 6/24, off; 7/2, 26.6 cfs; 7/9, 24.2 cfs; 7/16, 34.6 cfs; 7/23, 25.1 cfs; 7/30, 10.2 cfs; 8/6, 13.3 cfs; 8/13, 32.0 cfs; 8/20, 7.9 cfs; 8/27, 4.9 cfs; 9/10, 4.9 cfs; 9/17, 4.9 cfs; 9/24, 4.9 cfs.

1991: 6/10, 48.7 cfs; 6/11, 48.7 cfs; 6/12, 54.9 cfs; 6/20, 78.6 cfs; 6/22, 70.8 cfs; 6/24, 35.1 cfs; 7/1, 29 cfs; 7/4, 34.1 cfs; 7/11, 23.7 cfs; 7/18, 34.1 cfs; 7/25, 25.1 cfs; 8/1, 12.6 cfs; 8/5, 12.6 cfs; 8/8, 0 cfs; 8/10, 0 cfs; 8/12, 0 cfs; 8/15, 20.5 cfs; 8/20, 20.6 cfs; 8/22, 16.0 cfs; 8/24, 16.0 cfs; 8/27, 16.0 cfs; 8/29, 6.2 cfs; 9/5, 5.66 cfs; 9/9, 5.66 cfs; 9/12, 10.5 cfs; 9/16, 7.94 cfs; 9/19, 10.1 cfs; 9/23, 10.1 cfs; 9/26, 13.7 cfs; 10/3, 6.2 cfs.

1992: 6/1, 75.00 cfs; 6/2, 68.80 cfs; 6/3, 54.70 cfs; 6/4, 36.20 cfs; 6/9, 45.80 cfs; 6/11, 34.80 cfs; 6/18, 16.20 cfs; 6/25, 37.80 cfs; 6/29, 37.20 7/2, 23.70 cfs; 7/9, 20.16 cfs; 7/16, 20.16 cfs.

1993: 6/2, 71.54 cfs; 6/4, 71.54 cfs; 6/14, 71.54 cfs; 6/25, 61.38 cfs; 6/28, 64.50 cfs; 7/2, 64.03 cfs; 7/6, 58.13 cfs; 7/7, 22.36 cfs; 7/8, 17.63 cfs; 7/15, 39.50 cfs; 7/20, 39.50 cfs; 7/22, 39.50 cfs; 7/29, 39.50 cfs; 8/5, 24.65 cfs; 8/12, 7.05 cfs.

1994: 5/14, 4.6 cfs; 5/16, 4.6 cfs (arrive), 40.1 cfs (depart); 5/18, 40.1 cfs (arrive), 66.6 cfs (depart); 5/19, 66.6 cfs; 5/22, 66.3 cfs (arrive), 0.0 cfs (depart); 5/25, 0.0 cfs (arrive), 42.3 cfs (depart); 5/27, 66.7 cfs (arrive), 68.1 cfs (depart); 5/31, 68.9 cfs (arrive), 50.6 cfs (depart); 6/3, 50.1 cfs (arrive), 45.2 cfs (depart); 6/7, 45.2 cfs (arrive), 38.4 cfs (depart); 6/11, 38.3 cfs (arrive), 32.5 cfs (depart); 6/14, 32.5 cfs (arrive), 0.0 cfs (depart); 6/21, 35.0 cfs; 6/28, 33.6 cfs (arrive), 4.6 cfs (depart); 7/5, 4.6 cfs (arrive), 32.0 cfs (depart); 7/12, 32.0 cfs (arrive), 27.5 cfs (depart); 7/19, 27.0 cfs (arrive), 4.0 cfs (depart); 7/26, 4.6 cfs (arrive), 2.0 cfs (depart); 8/10, 1.0 cfs (arrive), 0.0 cfs (depart); 9/6, 0.0 cfs (arrive), 12.3 cfs (depart).

1995: 6/20, 78.63 cfs; 7/14, 45.8 cfs; 7/18, 7.06 cfs; 7/21, 58.13 cfs; 7/25, 51.82 cfs; 8/1, 42.89 cfs; 8/8, 42.89 cfs (arrive), 29.97 cfs (depart); 8/15, 30.47 cfs; 8/22, 29.97 cfs (arrive), 22.81 cfs (depart); 8/29, 22.36 cfs (arrive), 34.08 cfs (depart); 9/5, 38.39 cfs; 9/12, 38.59 cfs (arrive), 11.19 cfs (depart); 9/19, 5.66 cfs; 9/26, 5.66 cfs (arrive), 14.08 cfs (depart).

1996: May, 2297 AF; June, 4092 AF; July, 1884 AF; August, 1158 AF; September, 891 AF. (Totals computed by Hydrographer).

1997: May, 2481 AF; June, 3031 AF; July, 1691 AF; August, 858 AF; September, 792 AF. (Totals computed by Hydrographer).

1998: May, 1713 AF; June, 2607 AF; July, 3669 AF; August, 1063 AF; September, 683 AF. (Totals computed by Hydrographer).

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.

South Side and Kidman-Wall Ditch, Smith's Fork River

Diversion Description: Information not available at time of report.

Diversion Location:

Source: Smith's Fork River, Trib. Black's Fork River, Trib. Green River
Section, Township, Range: 27, 15, 115

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
10-04-1898	374E	Irrigation	670.00	9.54	9.54	
02-03-1899	408E	Irrigation	70.00	1.00	10.54	
02-23-1900	505E	Irrigation	50.00	0.71	11.25	
03-16-1900	518E	Irrigation	83.00	1.18	12.43	

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Return Flows are delivered to Smith's Fork above Black's Fork.

Other Operational Information: Information not available at time of report.

South Side and Kidman-Wall Ditch, Smith's Fork River, Diversion Data

No Diversion Data Available.

Timber Line Ditch, East Fork Smith's Fork River

Diversion Description: Information not available at time of report.

Diversion Location:

Source: East Fork Smith's Fork River, Trib. Smith's Fork River, Trib. Black's Fork River, Trib. Green River

Section, Township, Range: 29, 13, 115

Conveyance Description: Open Channel Canal.

Wyoming Water Rights Summary:

Priority Date (M–D–Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
06-24-1902	4026	Domestic, Irrigation, Stock	1,036.21	14.79	14.79	

Storage Rights: None.

Estimated Canal Losses: Information not available at time of report.

Irrigation Practices: Information not available at time of report.

Crop Types / Consumptive Use: Information not available at time of report.

Return Flows: Return Flows are delivered to East Fork Smith's Fork above the confluence with West Fork Smith's Fork.

Other Operational Information: Information not available at time of report.

Timber Line Ditch, East Fork Smith's Fork River, Diversion Data

Wateryear	May		June		July		August		September	
	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)	Average (cfs)	Monthly Total (AF)
1980										
1981										
1982										
1983										
1984										
1985	6.78	416.89	5.26	312.99						
1986			9.17	545.65						
1987			7.47	444.50						
1988										
1989										
1990										
1991					4.32	265.63	1.28	78.70	3.05	181.49
1992										
1993			8.76	521.26	5.49	337.57				
1994	6.66	409.51	3.99	237.42	0.00	0.00	0.00	0.00	0.00	0.00
1995							2.98	183.23		
1996							0.00	0.00	0.00	0.00
1997			0.00	0.00	0.00	0.00	0.00	0.00		
1998							1.81	111.29	0.00	0.00
Averages:	6.72	413.20	5.78	343.64	2.45	150.80	1.01	62.20	0.76	45.37

Blank cells are due to missing/insufficient data.
Average = Average Flow for ENTIRE month. Monthly Total = Total Volume used during month.
See Methodology section for explanations.
Spot data readings used in calculating averages in table on following pages.

Timber Line Ditch, East Fork Smith's Fork River, Diversion Data

Data:

1985: 5/13, 10.0 cfs; 5/23, 11.9 cfs; 6/4, 10.0 cfs; 6/8, 11.9 cfs; 6/22, off.
1986: 6/2, off; 6/12, 13.29 cfs; 6/24, 10 cfs; 7/14, 9.08 cfs.
1987: 5/16, 10.0 cfs; 6/3, 11.1 cfs; 7/13, off.
1991: 6/22, 10.6 cfs; 6/24, 10.6 cfs; 8/1, 0 cfs; 9/5, 2.88 cfs; 9/9, 2.88 cfs; 9/12, 2.88 cfs; 9/19, 2.98 cfs; 9/23, 3.29 cfs; 10/3, 3.68 cfs.
1992: 6/1, 11.90 cfs; 6/2, 10.00 cfs; 6/4, 10.16 cfs.
1993: 6/4, 11.60 cfs; 6/14, 8.74 cfs; 6/28, 10.00 cfs; 7/2, 10.00 cfs; 7/6, 10.00 cfs; 7/20, 0.00 cfs; 7/22, 0.00 cfs; 7/27, 6.79 cfs; 7/29, 6.79 cfs; 8/5, 5.74 cfs.
1994: 5/14, 11.6 cfs; 5/19, 11.4 cfs; 6/7, 11.6 cfs; 6/12, 8.5 cfs (arrive), 0.0 cfs (depart); 6/14, 0.0 cfs; 7/12, 0.0 cfs; 7/26, 0.0 cfs; 8/24, 0.0 cfs; 9/26, 0.0 cfs.
1995: 7/25, 7.06 cfs; 8/1, 7.06 cfs; 8/8, off; 8/15, 4.63 cfs (arrive), 5.99 cfs (depart); 8/22, 4.39 cfs (arrive), off (depart); 8/29, 4.29 cfs (arrive), off (depart); 9/5, off.
1996: 5/29, 6.52 cfs; 8/6, 8/13, 8/27, 9/10, 9/17, 9/24, 0 cfs.
1997: 6/25, 9.2 cfs; 7/1, 11.6 cfs (arrive), 0.0 cfs (depart); 7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 0.0 cfs.
1998: 8/4, 2.59 cfs; 8/11, 2.98 cfs; 8/18, 1.86 cfs; 8/25, 1.86 cfs; 9/1, 9/8, 9/15, 9/22, 9/29, dry.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, slightly below average; 1986, average; 1987, average; 1988, below average; 1989, below average; 1990, below average; 1991, slightly below average; 1992; below average; 1993, average; 1994, below average; 1995, slightly above average; 1996, average; 1997, average; 1998, slightly above average.

Source: State Engineer's Office, Annual Hydrographers' Reports.