

**Water Division IV**  
**District 9**

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Charles F. Roberson Ditch, Ham's Fork River

**Diversion Description:** Diversion consists of a single 24" diameter Waterman slide gate. A small rock diversion dam exists.<sup>1</sup>

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range: 24, 21, 114

**Conveyance Description:** Open Channel Canal, approximately 4½ miles in length.<sup>1</sup>

**Wyoming Water Rights Summary:**

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
Spring 1882	Terr.	Domestic, Irrigation, Stock	460.00	6.58	6.58	
12-26-1905	1501E	Domestic, Irrigation, Stock	200.00	2.85	9.43	

**Storage Rights:** None.

**Estimated Canal Losses:** Slightly greater than typical (10-15%).<sup>1</sup>

**Irrigation Practices:** Lands are entirely flood irrigated.<sup>1</sup>

**Crop Types / Consumptive Use:** Water is used to irrigate almost entirely native grass hay and pasture.<sup>1</sup>

**Return Flows:** Ham's Fork River above Opal, Wyoming.

**Other Operational Information:** Conveyance losses through the Ham's Fork River channel itself are significantly high. Ditch is typically turned on in early May. As water levels in Ham's Fork decrease, water users typically practice self-regulation by rotation or reducing water taken from the river. Ditch is typically turned off in July.<sup>1</sup>

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

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Charles F. Roberson Ditch, Ham'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			23.85	1,419.17	17.68	1,087.10				
1986										
1987			15.49	921.72	5.13	315.43				
1988	16.76	1,030.53	20.36	1,211.50						
1989	15.43	948.75	21.61	1,285.88	16.21	996.71				
1990	7.76	476.87	22.07	1,313.26	17.74	1,090.79				
1991										
1992			9.93	590.88						
1993			19.61	1,166.88	18.88	1,160.89			6.06	360.79
1994			14.92	887.80						
1995			15.11	899.11	16.70	1,026.84	6.07	373.23		
1996			14.37	855.07	5.63	346.18				
1997	10.43	641.32	21.53	1,281.12	7.93	487.60				
1998										

Averages: 

12.60	774.37	18.08	1,075.67	13.24	813.94	6.07	373.23	6.06	360.79
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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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Charles F. Roberson Ditch, Ham's Fork River, Diversion Data

**Data:**

1985: 5/20, 16.34 cfs; 6/18, 26.64 cfs; 7/2, 21.30 cfs; 7/16, 11.52 cfs; 7/30, 24.35 cfs; 8/15, 0.0 cfs.

1987: 5/16, 13.00 cfs; 6/10, 16.21 cfs; 7/6, 14.28 cfs; 7/6, 10.20 cfs; 7/23, off.

1988: 5/3, dry; 5/19, 25.68 cfs; 6/14, 19.57 cfs; 6/27, 21.00 cfs; 7/12, off.

1989: 5/5, 10.20 cfs; 5/23, 21.15 cfs; 6/7, 23.28 cfs; 6/16, 15.28 cfs; 6/23, 24.16 cfs; 7/13, 28.10 cfs;  
7/20, 23.20 cfs.

1990: 5/14, 7.34 cfs; 5/29, 17.30 cfs; 6/6, 23.92 cfs; 6/21, 23.64 cfs; 6/27, 17.84 cfs; 7/10, 18.62 cfs;  
7/20, 22.85 cfs; 8/6, off.

1992: 5/18, 10.45 cfs; 6/23, 12.45 cfs; 6/29, off.

1993: 5/19, 22.80 cfs; 5/28, 19.30 cfs; 6/9, 17.50 cfs; 6/18, 20.30 cfs; 7/13, 23.10 cfs; 7/26, 19.40 cfs;  
7/30, off; 9/10, 21.40 cfs; 9/27, off.

1994: 5/20, 12.60 cfs; 6/2, 24.73 cfs; 6/10, 22.00 cfs; 6/20, 12.00 cfs; 7/1, off.

1995: 6/6, 13.17 cfs; 6/23, 21.16 cfs; 7/13, 16.30 cfs; 7/26, 17.20 cfs; 8/14, dry; 8/22, 15.86 cfs; 8/25,  
16.30 cfs.

1996: 6/6, 12.3 cfs; 6/20, 21.2 cfs; 7/25, 0 cfs.

1997: 5/14, 16.0 cfs; 6/18, 23.6 cfs; 7/9, 16.0 cfs; 7/16, 14.4 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, 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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Moore and Bagley Ditch, Ham's Fork River

**Diversion Description:** Diversion consists of a single 3' x 3' slide gate.<sup>1</sup>

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range: 15, 19, 112

**Conveyance Description:** Open Channel Canal, approximately 15 miles in length.<sup>1</sup>

**Wyoming Water Rights Summary:**

Priority Date (M-D-Y)	Permit Number	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)	Comments
09-03-1903	5593	Irrigation	756.00	10.80	10.80	

**Storage Rights:** None.

**Estimated Canal Losses:** Greater than typical (20-25%).<sup>1</sup>

**Irrigation Practices:** Lands are entirely flood irrigated.<sup>1</sup>

**Crop Types / Consumptive Use:** Water is used to irrigate almost entirely native grass hay and pasture.<sup>1</sup>

**Return Flows:** Ham's Fork River above confluence with Black's Fork.

**Other Operational Information:** Conveyance losses through the Ham's Fork River channel itself are significantly high. Ditch is typically turned on in May. As water levels in Ham's Fork decrease, water users typically practice self-regulation by rotation or reducing water taken from the river. Ditch is typically turned off in July.<sup>1</sup>

Sources: 1) John Yarbrough, State Engineer's Office, Interview, May 4, 2000.
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Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Moore and Bagley Ditch, Ham'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			14.46	860.43	6.29	386.76				
1986										
1987			15.36	913.98						
1988	11.72	720.63	17.29	1,028.83						
1989	15.46	950.60	21.92	1,304.33	7.95	488.83				
1990	10.62	653.00	22.14	1,317.42	4.52	277.92	4.83	296.99		
1991										
1992	6.37	391.68	9.27	551.60						
1993	10.34	635.78	7.67	456.40	15.45	949.98	0.93	57.18	10.36	616.46
1994	15.17	932.77	10.01	595.64						
1995			11.70	696.20	5.62	345.56	0.00	0.00		
1996			5.02	298.71	1.15	70.71				
1997			12.12	721.19	4.70	288.99				
1998										

Averages: 

11.61	714.08	13.36	794.98	6.53	401.25	1.92	118.06	10.36	616.46
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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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Moore and Bagley Ditch, Ham's Fork River, Diversion Data

**Data:**

1985: 5/28, 25.27 cfs; 6/19, 10.76 cfs; 7/3, 11.57 cfs; 7/17, 6.28 cfs; 8/1, 8/15, 0 cfs.  
 1987: 6/2, 0 cfs; 6/8, 29.57 cfs; 6/15, 18.30 cfs; 6/22, 19.10 cfs; 6/29, 1.30 cfs; 7/8, off.  
 1988: 5/3, 7.50 cfs; 5/11, 8.86 cfs; 5/20, 11.92 cfs; 5/31, 21.35 cfs; 6/8, 24.00 cfs; 6/21, 31.20 cfs.  
 1989: 5/5, 11.10 cfs; 5/17, 16.30 cfs; 5/24, 22.40 cfs; 6/5, 22.50 cfs; 6/14, 23.68 cfs; 6/21, 23.24 cfs; 7/6, 12.24 cfs; 7/18, 8.20 cfs; 7/31, off.  
 1990: 5/1, 9.25 cfs; 5/7, 4.65 cfs; 5/23, 12.40 cfs; 6/4, 24.10 cfs; 6/19, 23.40 cfs; 6/26, 20.82 cfs; 7/2, 11.82 cfs; 7/16, 14.18 cfs; 7/30, off; 8/21, 13.72 cfs.  
 1992: 5/1, 7.15 cfs; 5/15, 4.66 cfs; 5/30, 8.32 cfs; 6/5, 10.50 cfs; 6/16, 12.36 cfs; 6/30, 3.82 cfs -- closed after measurement.  
 1993: 5/14, 18.45 cfs; 5/26, 18.60 cfs; 6/18, 1.68 cfs; 7/6, 17.30 cfs; 7/16, 26.40 cfs; 7/30, closed; 9/3, 1.85 cfs; 9/7, 6.40 cfs; 9/21, 10.34 cfs; 10/1, 24.35 cfs; 10/6, 18.38 cfs.  
 1994: 5/6, 12.56 cfs; 5/16, 21.40 cfs; 5/25, 18.65 cfs; 6/8, 12.81 cfs; 6/27, 6.48 cfs; 7/3, out of water.  
 1995: 5/18, 8.36 cfs; 6/1, 9.60 cfs; 6/22, 12.82 cfs; 7/10, 12.91 cfs; 7/19, 7/27, 8/14, 8/18, 8/22, dry.  
 1996: 5/21, 15.7 cfs; 5/31, 17.1 cfs; 6/19, 0 cfs; 7/24, 2.3 cfs.  
 1997: 5/20, 20.6 cfs; 6/4, 15.2 cfs; 6/17, 10.2 cfs; 7/8, 12.0 cfs; 7/15, 6.2 cfs.  
 1998: 9/4, 4.0 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, 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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Nutria Ditch, Ham's Fork River

**Diversion Description:** Information not available at time of report.

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range: 31, 21, 112

**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
11-12-1884	Terr.	Domestic, Irrigation, Stock	340.00	4.92	4.92	POD/MOC change from a portion of Winslow, Hallock, and Capen Ditch
06-21-1909	9279	Irrigation	912.00	13.02	17.94	Not Adjudicated

**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 Ham's Fork above Fabian Ditch.

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



Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Nutria Ditch, Ham'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					13.10	805.20				
1986										
1987										
1988	14.57	895.87	15.83	941.95						
1989			29.44	1,751.80	15.86	975.19				
1990			15.28	909.22						
1991										
1992			5.96	354.64						
1993			19.02	1,131.77	4.79	294.53				
1994			8.96	533.16						
1995			15.11	899.11	13.20	811.64	0.00	0.00		
1996			13.89	826.51	6.50	399.67				
1997	10.85	667.14	26.34	1,567.34	11.85	728.63				
1998										

Averages:	12.71	781.51	16.65	990.61	10.88	669.14	0.00	0.00		
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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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Nutria Ditch, Ham's Fork River, Diversion Data

**Data:**

1985: 6/18, 21.27 cfs; 7/2, 23.87 cfs; 7/16, 10.78 cfs; 7/30, 7.23 cfs; 8/15, 0.0 cfs.  
1987: 6/23, 21.60 cfs; 7/6, 0.0 cfs ("not enough water in river").  
1988: 5/5, dry; 5/19, 22.44 cfs; 6/9, 23.15 cfs; 6/21, 21.30 cfs; 7/12, off.  
1989: 5/17, 31.50 cfs; 5/24, 26.40 cfs; 6/7, 29.16 cfs; 6/16, 30.46 cfs; 6/23, 31.40 cfs; 7/13, 16.20 cfs;  
7/20, 28.60 cfs; 7/26, 0.0 cfs.  
1990: 5/21, 22.62 cfs; 5/29, 6.20 cfs; 6/4, 15.80 cfs; 6/19, 27.00 cfs; 6/27, 15.30 cfs; 7/12, 14.00 cfs.  
1992: 5/30, 9.63 cfs; 6/9, 10.00 cfs; 6/29, off.  
1993: 5/20, 21.60 cfs; 5/26, 23.60 cfs; 6/18, 20.00 cfs; 7/2, 11.40 cfs; 7/26, off.  
1994: 5/16, 20.15 cfs; 6/2, off; 6/8, 14.36; 6/27, 7.60 cfs; 7/3, off.  
1995: 5/19, 6/2, dry; 6/22, 23.82 cfs; 7/10, 24.10 cfs; 7/26, 8/14, 8/18, 8/22, dry.  
1996: 5/23, 20.2 cfs; 6/6, 0 cfs; 6/20, 24.5 cfs; 7/25, 0 cfs.  
1997: 5/14, 0.00 cfs; 5/23, 24.6 cfs; 6/18, 27.3 cfs; 7/8, 24.0 cfs; 7/16, 24.8 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, 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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Old Mexican Ditch, Ham's Fork River

**Diversion Description:** Information not available at time of report.

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range:

**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
06-21-1909	9278	Domestic, Irrigation	864.00	12.34	12.34	

**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 Ham's Fork above Fabian Ditch.

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

04/27/01

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Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Old Mexican Ditch, Ham's Fork River, Diversion Data

No Diversion Data.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

South Fork Ditch, South Fork Fontenelle Creek

**Diversion Description:** Information not available at time of report.

**Diversion Location:**

Source: South Fork Fontenelle Creek, Trib. Fontenelle Creek, Trib. Green River  
Section, Township, Range: 24, 25, 116

**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
05-21-1915	13221	Domestic, Irrigation, Stock	503.00	7.17	7.17	
03-25-1921	4269E	Irrigation	39.40	0.56	7.73	
03-25-1921	4270E	Irrigation	35.00	0.50	8.23	
03-25-1921	4271E	Irrigation	23.00	0.33	8.56	
09-27-1927	4557E	Irrigation	51.80	0.74	9.30	
01-05-1931	4701E	Irrigation	106.30	1.52	10.82	

**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 60% of the return flows are delivered to Fontenelle Creek at South Fork Fontenelle Creek, and approximately 40% are delivered to Bartlett Creek.<sup>1</sup>

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

Sources: 1) Williams, Linda I., "A Model of the Green River Using the Wyoming Integrated River System Operation Study (WIRSOS)," M.S. Thesis, University of Wyoming, Department of Civil Engineering, December 1995.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

South Fork Ditch, South Fork Fontenelle Creek, Diversion Data

No Diversion Data Available.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

South Side Ditch, Ham's Fork River

**Diversion Description:** Information not available at time of report.

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range: 31, 21, 114

**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
09-27-1900	2841	Irrigation	700.00	10.00	10.00	

**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 Ham's Fork below Opal.

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

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

South Side Ditch, Ham'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			12.19	725.36	6.18	379.99				
1986										
1987			3.54	210.64						
1988			10.32	614.06						
1989	10.20	627.17	10.17	605.16	5.51	338.80				
1990			14.22	846.15	8.54	525.10				
1991										
1992			6.20	368.93						
1993			12.98	772.36	12.54	771.05				
1994			7.72	459.37						
1995			13.13	781.29	5.34	328.34	0.00	0.00		
1996										
1997	7.84	482.06	13.16	783.07	4.57	281.00	0.21	12.91	0.48	28.56
1998										

Averages:	9.02	554.62	10.36	616.64	7.11	437.38	0.11	6.46	0.48	28.56
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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.



Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

South Side Ditch, Ham's Fork River, Diversion Data

**Data:**

1985: 5/17, 15.30 cfs; 6/18, 10.26 cfs; 7/2, 16.08 cfs; 7/16, 4.52 cfs; 7/30, 0.0 cfs.

1987: 5/16, 0 cfs; 6/10, 7.66 cfs; 6/23, 0 cfs.

1988: 5/19, dry; 6/14, 14.34 cfs; 7/12, off.

1989: 5/5, 9.75 cfs; 5/23, 12.60 cfs; 6/7, 13.24 cfs; 6/16, 7.86 cfs; 6/23, 9.06 cfs; 7/13, 8.87 cfs; 7/20, 9.36 cfs.

1990: 5/29, 12.42 cfs; 6/6, 15.80 cfs; 6/21, 14.72 cfs; 6/27, 11.70 cfs; 7/10, 8.36 cfs; 7/20, 10.76 cfs; 8/6, off.

1992: 5/18, 12.60 cfs; 6/9, 11.15 cfs; 6/26, closed.

1993: 5/28, 20.60 cfs; 6/9, 15.38 cfs; 6/18, 8.60 cfs; 7/2, 14.00 cfs; 7/13, 16.20 cfs; 7/26, 12.18 cfs; 7/30, closed; 9/23, 9.34 cfs; 9/27, closed.

1994: 5/20, 13.26 cfs; 6/2, 15.05 cfs; 6/10, 10.78 cfs; 7/1, closed.

1995: 5/19, 11.73 cfs; 6/6, 17.00 cfs; 6/23, 10.36 cfs; 7/13, 8.60 cfs; 7/26, 8/14, 8/22, 8/25, dry.

1997: 5/14, 13.5 cfs; 6/18, 13.5 cfs; 7/9, 11.0 cfs; 7/16, 0.00 cfs; 7/17, 1.0 cfs (est); 7/24, 1.0 cfs (est); 7/25, 1.0 cfs (est); 7/31, 8/6, 8/13, 8/21, 0.0 cfs; 8/29, 1.0 cfs (est); 9/11, 0.0 cfs; 9/18, 1.0 cfs (est); 9/25, 1.0 cfs (est).

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, 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.

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Winslow, Hallock, and Capen Ditch, Ham's Fork River

**Diversion Description:** Information not available at time of report.

**Diversion Location:**

Source: Ham's Fork River, Trib. Black's Fork River, Trib. Green River  
Section, Township, Range: 31, 21, 112

**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
11-12-1884	Terr.	Domestic, Irrigation, Stock	695.00	10.05	10.05	

**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 Ham's Fork above Fabian Ditch.

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

Green River Basin, Wyoming; Key Structures and Diversions  
Description and Operation Memorandum

Winslow, Hallock, and Capen Ditch, Ham'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			0.73	43.44	0.05	3.07				
1986										
1987										
1988			14.94	888.99						
1989	13.87	82.53	23.73	1,412.03	20.10	1,235.90	6.11	375.69	4.45	264.79
1990			9.09	540.89						
1991										
1992			6.25	371.90						
1993			13.92	828.30	8.70	534.94				
1994			10.58	629.55						
1995			9.84	585.52	6.00	368.93	0.00	0.00		
1996			9.05	538.51	2.60	159.87				
1997			1.46	87.15	4.44	273.04				
1998										

Averages: 

13.87	82.53	9.96	592.63	6.98	429.29	3.06	187.84	4.45	264.79
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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.

Green River Basin, Wyoming; Key Structures and Diversions  
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**Data:**

1985: 5/21, 2.54 cfs; 6/18, 0.41 cfs; 7/2, 0.18 cfs; 7/16, 0 cfs.

1987: 6/17, 11.34 cfs; 7/6, 6.30 cfs; 7/13, 0.0 cfs.

1988: 5/19, 20.74 cfs; 6/9, 21.23 cfs; 6/21, 11.15 cfs; 7/12, dry.

1989: 5/9, 8.20 cfs; 5/24, 23.60 cfs; 6/7, 24.73 cfs; 6/16, 24.14 cfs; 6/23, 22.96 cfs; 7/13, 20.82 cfs; 7/20, 21.60 cfs; 8/26, off; 9/22, 10.40 cfs.

1990: 5/29, 21.10 cfs; 6/4, 7.50 cfs; 6/19, 10.60 cfs; 6/27, 8.30 cfs; 7/12, off.

1992: 6/2, 10.23 cfs; 6/9, 10.32 cfs; 6/12, 10.00 cfs; 6/29, closed.

1993: 5/20, not open; 5/26, 18.30 cfs; 6/18, 10.60 cfs; 7/2, 15.60 cfs; 7/16, 12.10 cfs; 7/26, closed; 9/23, 8.96 cfs; 9/27, 6.80 cfs.

1994: 5/16, 0.00 cfs; 6/2, 14.10 cfs; 6/8, 12.16 cfs; 6/27, 9.00 cfs; 7/3, out of water.

1995: 5/19, 6/2, dry; 6/22, 16.31 cfs; 7/10, 9.80 cfs; 7/27, 8/14, 8/18, 8/22, dry.

1996: 5/23, 13.6 cfs; 6/6, 9 cfs; 6/20, 9.8 cfs; 7/25, 0 cfs.

1997: 5/14, 5/23, 6/18, 0.00 cfs; 7/8, 10.4 cfs; 7/16, 9.0 cfs.

Supply: 1980, average; 1981, slightly below average; 1982, average; 1983, above average; 1984, above average; 1985, 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.