# LITTLE WIND RIVER

Coolidge
Double Ditch
Little Wind 4
Little Wind 5
Ray
Sub Agency

### **COOLIDGE CANAL**

USGS ID 42108 H3, 43108 A3, 43108 A5, 43108 A4 USGS Name Arapahoe NE, Riverton East, Pavillion SE Riverton West

#### **DIVERSION DESCRIPTION**

Sliding steel gates in concrete headwall

### **DIVERSION LOCATION**

Source: Little Wind River

N  $2^{\circ}$  17'E, 2554' from the SW corner of Section 36, Township 1N, Range 1W, WRM

#### CONVEYANCE DESCRIPTION

Open dirt canal approximately 12 miles long, concrete check structures, approximately 12 major laterals, over 100 individual farm turnouts.

#### WYOMING WATER RIGHTS

<b>Priority Date</b>	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
7/03/1868	Wind River Tribes	Irr.	6897.00		30108.87		
7/03/1868	Walton	Irr.	1637.25		7133.15		
3/18/1905	6632	Irr.	1078.20	15.36		15.36	

#### STORAGE RIGHTS

Washakie Reservoir Ray Lake Reservoir

### **ESTIMATED CANAL LOSSES**

Varies with time of year Est. 25% at peak

### **IRRIGATION PRACTICES**

Convential gravity irrigation methods, open dirt sublaterals, some gated pipe, some sprinklers.

# CROP TYPES / CONSUMPTIVE USE

Grass hay, alfalfa hay, small grains, ocassional corn, native pasture, gardens and lawns

# **RETURN FLOWS**

100% to Little Wind River, some directly, some via Mill Creek, some via Sharpnose Draw

### OTHER OPERATIONAL INFORMATION

BIA Watermaster and ditchriders

## **CONTACT INFORMATION**

U.S. BIA, Irrigation Dept. Fort Washakie, WY (307)332-2596

# PHOTO LOG

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

Monthly Summary (ac-ft)

Wonthly Sun	Discharge (ac-ft)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992				0	5,770	7,890	6,610	3,920	2,750				26,940
1993													
1994													
1995													
1996													
1997													
1998													
1999													
2000													
2001													
Total				0	5,770	7,890	6,610	3,920	2,750				26,940

Monthly Summary (cfs)

Wonthly Sum	Discharge (cfs)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992				0	94	133	107	64	46				74
1993													
1994													
1995													
1996													
1997													
1998													
1999													
2000													
2001													
Average				0	94	133	107	64	46				74

Notes: 1 2

Data from SEO Hydrographers Reports, USGS Gage Data and WRDS electronic data. Monthly summaries are summarized from daily data. Missing readings interpolated from readings immediately before and after missing data.

### **DOUBLE DITCH**

# **DIVERSION DESCRIPTION**

One 3' screwtype rectangular gate covering a 65 foot long buried oval culvert.

# **DIVERSION LOCATION**

Source: Little Wind River

N 65° W, 1573' from the SE corner Section 23, Township 1S, Range 3E, WRM, and is in the SW 1/4 SE 1/4 Section 23.

# **CONVEYANCE DESCRIPTION**

Open dirt ditch 3 3/4 miles long serving approximately 760 acres and one user. Two big electric pumps lift water to permitted lands above ditch. Ditch capacity  $\sim 25$  c.f.s.

### WYOMING WATER RIGHTS

<b>Priority Date</b>	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
12/11/1914	13401	Irr.	284.90	4.08		4.08	
12/29/1922	4340E	Dom.,Irr.,Stk.	169.62	2.42		6.50	
3/30/1978	6681E	Irr.	301.00	4.30		10.80	

### STORAGE RIGHTS

None

# **ESTIMATED CANAL LOSSES**

Varies with the time of year; estimated 20% at peak.

# **IRRIGATION PRACTICES**

Conventional flood and sideroll sprinkler irrigation practices.

# **CROP TYPES / CONSUMPTIVE USE**

Alfalfa hay, native hay, pasture, occasional small grain.

#### **RETURN FLOWS**

Minimal

### OTHER OPERATIONAL INFORMATION

Efficiently operated ditch.

# **CONTACT INFORMATION**

Griffin Brothers, Inc. Riverton, WY (307) 856-2030

# PHOTO LOG

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

# LITTLE WIND RIVER DITCH NO. 4

#### **DIVERSION DESCRIPTION**

One 3' screwtype sliding rectangular gate in concrete headwall, headgate rebuilt 1997.

# **DIVERSION LOCATION**

Source: Little Wind River

S 40° 30' W, 704' from the center of Section 31, Township 1N, Range 2E, WRM, and is in the NE 1/4 SW 1/4 Section 31.

### **CONVEYANCE DESCRIPTION**

Open dirt ditch 2 1/2 miles long serving 509 acres. Ditch capacity  $\sim$  15 c.f.s.

### **WYOMING WATER RIGHTS**

<b>Priority Date</b>	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
7/03/1868	Wind River Tribes	lm.	72.80		377.76		
5/05/1905	6604	Irr.	298.14	4.26		4.26	

### STORAGE RIGHTS

None

# **ESTIMATED CANAL LOSSES**

Varies with the time of year, estimated 30-35% at peak.

# **IRRIGATION PRACTICES**

Conventional flood irrigation methods, some use of irrigation pipe.

# **CROP TYPES / CONSUMPTIVE USE**

Pasture, yards, hay.

## **RETURN FLOWS**

Some to Little Wind River

# OTHER OPERATIONAL INFORMATION

#### CONTACT INFORMATION

Earl Givens

Shoshone and Arapahoe Tribes

Arapahoe, WY (307)856-2190

Ft. Washakie, WY (307) 332-3164

## **PHOTO LOG**

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

### LITTLE WIND RIVER DITCH NO. 5

# **DIVERSION DESCRIPTION**

One 36" pipe in concrete headwall with metal slide.

# **DIVERSION LOCATION**

Source: Little Wind River

S 78° 29' W, 553' from the center of Section 4, Township 1S, Range 2E, WRM, and is in the NE 1/4 SW 1/4 Section 4.

# **CONVEYANCE DESCRIPTION**

Open dirt ditch 3 1/2 miles long serving approximately 300 acres. Ditch capacity ~ 14 c.f.s.

# **WYOMING WATER RIGHTS**

<b>Priority Date</b>	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
7/03/1868	Wind River Tribes	Irr.	330.40		1714.85		
7/03/1868	Walton	Irr.	217.90		1064.79		
5/05/1905	6605	Irr.	40.00	0.57		0.57	

### STORAGE RIGHTS

None

#### **ESTIMATED CANAL LOSSES**

Varies with the time of year; estimated 35-40% at peak.

# **IRRIGATION PRACTICES**

Conventional flood irrigation methods, some use of gated pipe.

# **CROP TYPES / CONSUMPTIVE USE**

Alfalfa hay, native hay, pasture, occasional small grain.

### **RETURN FLOWS**

Some to Little Wind River

# OTHER OPERATIONAL INFORMATION

### **CONTACT INFORMATION**

Floyd Collins Shoshone and Arapahoe Tribes

Arapahoe, WY Ft. Washakie, WY (307)856-2924 (307) 332-3164

### **PHOTO LOG**

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

### **RAY CANAL**

### **DIVERSION DESCRIPTION**

Sliding steel gates in concrete headwall.

# **DIVERSION LOCATION**

Source: South Fork Little Wind River and North Fork Little Wind River via supply canal N 30  $^\circ$  0'E, 1283' from SW Corner Section 6, Township 1S, Range 1 W, WRM

#### **CONVEYANCE DESCRIPTION**

Open dirt canal with screw type turnouts into 12 main laterals. Main canal approximately 11 miles long, over 150 individual turnouts. Concrete check and drop structures.

### WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
7/03/1868	Wind River Tribes	Irr.	9258.00		43061.13		
7/03/1868	Walton	Irr.	1692.26		7869.01		
3/18/1905	6633 9080	Irr.	1598.30	21.15		21.15	

# STORAGE RIGHTS

Washakie Reservoir Ray Lake Reservoir

# **ESTIMATED CANAL LOSSES**

Varies with time of year Est. 10-15% at peak

### **IRRIGATION PRACTICES**

Conventional flood irrigation practices, some concrete delivery ditches, some gated pipe, some sprinklers.

## **CROP TYPES / CONSUMPTIVE USE**

Pasture, hay, small grains, some corn, lawns, and gardens.

### **RETURN FLOWS**

Some back to Little Wind River via Trout Creek, some via Mill Creek, and some to North Fork Popo Agie River

## OTHER OPERATIONAL INFORMATION

BIA Watermaster and ditchriders

#### **CONTACT INFORMATION**

U.S. BIA Fort Washakie, WY (307)332-3164

#### **PHOTO LOG**

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

# **DIVERSION RECORD**

Monthly Summary (ac-ft)

	Discharge (ac-ft)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989				2,825	10,653	12,369	14,138	10,130	6,456				56,571
1990				1,651	8,870	19,012	16,893	9,229	8,714				64,369
1991				804	1,307	5,271	14,238	10,040	8,356				40,016
1992				0	11,840	14,700	6,760	9,810	2,620				45,730
1993				0	3,460	6,780	13,470	13,480	8,520				45,710
1994				0	9,230	16,660	10,910	4,680	2,270				43,750
1995				1,300	1,600	1,760	14,670	14,820	4,740				38,890
1996				216	6,637	18,252	17,631	11,193	3,443	1,045			57,372
1997					9,031	14,085	15,642	12,252	9,912	4,503			60,921
1998				110	6,820	10,060	16,410	13,130	9,300				55,830
1999				610	1,120	10,460	17,180	8,860	5,650				43,880
2000													
2001													
Total				751	6,415	11,764	14,358	10,693	6,362	2,774			50,345

Monthly Summary (cfs)

	Discharge (cfs)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989				47	173	208	230	165	108				155
1990				28	144	320	275	150	146				177
1991				14	21	89	232	163	140				110
1992				0	193	247	110	160	44				126
1993				0	56	114	219	219	143				125
1994				0	150	280	177	76	38				120
1995				22	26	30	239	241	80				106
1996				4	108	307	287	182	58	17			157
1997					147	237	254	199	167	73			201
1998				2	111	169	267	214	156				153
1999				10	18	176	279	144	95				120
2000				-									
2001													
Average				13	104	198	234	174	107	45			125

Notes:

Data from SEO Hydrographers Reports, USGS Gage Data and WRDS electronic data.

Monthly summaries are summarized from daily data. Missing readings interpolated from readings immediately before 1 and after missing data.

# SUB AGENCY CANAL

# **DIVERSION DESCRIPTION**

Sliding steel grates in concrete headwall

### **DIVERSION LOCATION**

Source: Little Wind River

SW 1/4 NW 1/4 Section 11, Township 1S, Range 2E, WRM

### **CONVEYANCE DESCRIPTION**

Open Dirt canal approximately 8 miles long, with 10 major laterals, concrete drops and check structures. Over 60 individual delivery turnouts.

### WYOMING WATER RIGHTS

<b>Priority Date</b>	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
7/03/1868	Wind River Tribes	Irr.	3045.00		14144.00		
7/03/1868	Walton	Irr.	901.35		4146.21		
5/05/1905	6582	Irr.	835.00	11.91		11.91	

### STORAGE RIGHTS

Washakie Reservoir Ray Lake Reservoir

### **ESTIMATED CANAL LOSSES**

Varies with time of year Est. 15-20% at peak

#### **IRRIGATION PRACTICES**

Conventional flood irrigation practices - some concrete delivery ditches, gated pipe, some sprinklers.

# CROP TYPES / CONSUMPTIVE USE

Pasture, hay, corn, small grain, lawns, and gardens.

# **RETURN FLOWS**

Some directly to Little Wind River via constructed drains. Some to Big Wind River via tail end of lefthand ditch.

## OTHER OPERATIONAL INFORMATION

BIA watermaster and ditchriders

#### **CONTACT INFORMATION**

U.S. BIA Fort Washakie, WY (307)332-2596

# **PHOTO LOG**

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

# **DIVERSION RECORD**

Monthly Summary (ac-ft)

	Discharge (ac-ft)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1973													
1974													
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992				470	6,100	4,840	7,150	6,140	4,270				28,970
1993													
1994													
1995													
1996													
1997													
1998													
1999													
2000													
2001													
Total				470	6,100	4.840	7,150	6,140	4,270				28,970

Monthly Summary (cfs)

Year 1973 1974	Discharge (cfs) Jan	Feb			l			1				1	
1973 1974	Jan	reb		Α	14	Long	11	A	0	0.1	NI	D	
1974			Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
1975													
1976													
1977													
1978													
1979													
1980													
1981													
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991													
1992				8	99	81	116	100	72				79
1993													
1994													
1995													
1996													
1997													
1998													
1999													
2000													
2001													
Average				8	99	81	116	100	72				79

Notes:

- Data from SEO Hydrographers Reports, USGS Gage Data and WRDS electronic data. Monthly summaries are summarized from daily data. Missing readings interpolated from readings immediately before and after missing data. 1