# BIG WIND RIVER

**Aragon**
**Green**
**Hurtado**
**Johnstown**
**LeClair**
**Lefthand**
**Lowerwind**
**Riverton Valley**
**Upper Wind**
**Wyoming Canal**

**DESCRIPTION AND OPERATION MEMORANDUM**

ARAGON DITCH

**DIVERSION DESCRIPTION**

Open intake to river, controlled by river surface elevation and spill gate down-ditch

**DIVERSION LOCATION**

Source: Big Wind River
S 70° 15'W, 1830' from 1/4 corner common to Sections 32 and 33, Township 3N, Range 1E, WRM

**CONVEYANCE DESCRIPTION**

Open dirt ditch 4+ miles long, some screw type turnouts; including Kinnear ditch, capacity is ~ 35 c.f.s. serving 1150 acres.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 1969.68 | | 407.30 | | |
| 7/03/1868 | Walton | Irr. | 611.00 | | 2986.90 | | |
| 5/05/1905 | 6598 | Irr. | 410.63 | 5.85 | | 5.85 | |
| 5/05/1905 | 1366E | Irr. | 280.00 | 4.00 | | 9.85 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

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

**IRRIGATION PRACTICES**

Conventional flood irrigation practices, some gated pipe, some sprinklers.

**CROP TYPES / CONSUMPTIVE USE**

Pasture, native hay, alfalfa hay, small grains, gardens and lawns

**RETURN FLOWS**

100% to Big Wind River

**OTHER OPERATIONAL INFORMATION**

Private Ditch, approximately 10 users

**CONTACT INFORMATION**

Clyde Woolery
Kinnear, WY
(307)856-6167

**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**

**DESCRIPTION AND OPERATION MEMORANDUM**

GREEN DITCH

**DIVERSION DESCRIPTION**

One 8' screwtype sliding steel gate in concrete headwall.

**DIVERSION LOCATION**

Source: Big Wind River
N 60° W, 1520' from the east 1/4 corner of Section 30, Township 42N, Range 107W, and is in the SW 1/4 NE 1/4 Section 30.

**CONVEYANCE DESCRIPTION**

Open dirt ditch 4 1/2 miles long delivering water to approximately 950 acres and 65 users. Entire area is heavily subdivided and serves dozens of small parcels, a golf course, and only one larger ranch. Ditch capacity is ~ 25 c.f.s.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 10/26/1899 | 2331 | Irr. | 399.00 | 5.69 | | 5.69 | |
| 7/17/1905 | 1406E | Irr. | 328.00 | 4.67 | | 10.36 | |
| 5/11/1906 | 1538E | Irr. | 36.00 | 0.51 | | 10.87 | |
| 12/17/1909 | 2162E | Irr. | 13.00 | 0.18 | | 11.05 | |
| 12/07/1914 | 3077E | Irr.,Stk. | 75.00 | 1.07 | | 12.12 | |
| 6/14/1961 | 6014E | Irr.,Stk. | 98.00 | 1.40 | | 13.52 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

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

**IRRIGATION PRACTICES**

Conventional flood irrigation practices, numerous pumps, some pipe.

**CROP TYPES / CONSUMPTIVE USE**

Alfalfa hay, grass hay, pasture, yards.

**RETURN FLOWS**

Minimal, all to Big Wind River.

**OTHER OPERATIONAL INFORMATION**

**CONTACT INFORMATION**

Parker Land and Cattle Co.
Dubois, WY
(307) 455-3969

**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**

**DESCRIPTION AND OPERATION MEMORANDUM**

HURTADO DITCH

**DIVERSION DESCRIPTION**

Open intake to river controlled by river surface elevation and spill gate downditch approximately 1/4 mile.

**DIVERSION LOCATION**
Source: Big Wind River
S 16°38'E 2879' from NE corner Section 20, Township 3N, Range 1W, WRM

**CONVEYANCE DESCRIPTION**

Open dirt 4 miles long, some screw type turnouts into laterals. Ditch capacity ~ 18 c.f.s.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 205.00 | | 973.75 | | |
| 7/03/1868 | Walton | Irr. | 162.00 | | 769.50 | | |
| 5/05/1905 | 6600 | Irr. | 184.00 | 2.62 | | 2.62 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

Varies with time of year
Approximately 25% at peak

**IRRIGATION PRACTICES**

Gravity surface irrigation.

**CROP TYPES / CONSUMPTIVE USE**

Hay, pasture, some small grains

**RETURN FLOWS**

100% to Big Wind River

**OTHER OPERATIONAL INFORMATION**

Private ditch

**CONTACT INFORMATION**

Vern Wickstrom
Kinnear, WY
(307)857 - 2969

**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**

**DESCRIPTION AND OPERATION MEMORANDUM**

JOHNSTOWN CANAL

**DIVERSION DESCRIPTION**

Sliding metal gates in concrete headwall against stable rock cliff, spill gate down ditch approximately 3/4 mile

**DIVERSION LOCATION**

Source: Big Wind River
S 45° 40'W, 2305' from 1/4 corner common to Sections 13 and 14, Township 2N, Range 1E, WRM

**CONVEYANCE DESCRIPTION**

Dirt canal 5 miles long with screw type headgates for turnouts into sublaterals, some concrete check structures, some wooden dividers on-farm. Three major sublaterals with approximately 25 individual farm turnouts. Capacity approximately 30 c.f.s.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 668.00 | | 3841.00 | | |
| 7/03/1868 | Walton | Irr. | 202.00 | | 1222.10 | | |
| 3/18/1905 | 6631 | Irr. | 405.00 | 5.79 | | 5.79 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

Varies with time of year, 25% at peak

**IRRIGATION PRACTICES**

Flood irrigation by gravity methods below canal, some moveable pipe. Sprinkler irrigation above canal

**CROP TYPES / CONSUMPTIVE USE**

Native pasture, grass and alfalfa hay, small grains, gardens

**RETURN FLOWS**

100% to the Big Wind River

**OTHER OPERATIONAL INFORMATION**

BIA watermaster and ditchrider

**CONTACT INFORMATION**

U.S. Bureau of Indian Affairs, 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.

**DIVERSION RECORD**

***Monthly Summary (ac-ft)***

| Year | Discharge (ac-ft) 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 | | | | | 475 | 1,093 | 1,742 | 1,311 | 818 | | | | 5,438 |
| 1992 | | | | 50 | 1,400 | 1,420 | 780 | 1,590 | 960 | | | | 6,200 |
| 1993 | | | | 0 | 770 | 1,070 | 1,430 | 1,220 | 650 | | | | 5,140 |
| 1994 | | | | 0 | 1,610 | 1,770 | 1,750 | 1,300 | 1,420 | | | | 7,850 |
| 1995 | | | | 0 | 130 | 680 | 1,250 | 1,550 | 1,020 | | | | 4,630 |
| 1996 | | | | 0 | 650 | 1,010 | 1,640 | 1,820 | 1,460 | | | | 6,580 |
| 1997 | | | | 0 | 770 | 980 | 1,850 | 1,200 | 1,100 | | | | 5,900 |
| 1998 | | | | 0 | 380 | 1,470 | 1,380 | 1,650 | 1,180 | | | | 6,060 |
| 1999 | | | | 0 | 430 | 2,000 | 2,010 | 2,060 | 1,620 | | | | 8,120 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | 1,391 | 1,946 | 1,991 | 1,884 | 1,757 | | | | 8,970 |
| Total | | | | 6 | 801 | 1,344 | 1,582 | 1,559 | 1,199 | | | | 6,490 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) 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 | | | | | 8 | 18 | 28 | 21 | 14 | | | | 18 |
| 1992 | | | | 1 | 23 | 24 | 13 | 26 | 16 | | | | 17 |
| 1993 | | | | 0 | 13 | 18 | 23 | 20 | 11 | | | | 14 |
| 1994 | | | | 0 | 26 | 30 | 28 | 21 | 24 | | | | 22 |
| 1995 | | | | 0 | 2 | 11 | 20 | 25 | 17 | | | | 13 |
| 1996 | | | | 0 | 11 | 17 | 27 | 30 | 25 | | | | 18 |
| 1997 | | | | 0 | 13 | 16 | 30 | 20 | 18 | | | | 16 |
| 1998 | | | | 0 | 6 | 25 | 22 | 27 | 20 | | | | 17 |
| 1999 | | | | 0 | 7 | 34 | 33 | 34 | 27 | | | | 22 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | 23 | 33 | 32 | 31 | 30 | | | | 30 |
| Average | | | | 0 | 13 | 23 | 26 | 25 | 20 | | | | 18 |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

LECLAIR – RIVERTON #2 CANAL

USGS ID 44108 H3, 44108 A3, 44108 A4, 44108 A5 USGS Name Arapahoe NE, Riverton East, Pavillion SE, Riverton West

**DIVERSION DESCRIPTION**

Gear driven slide gates in concrete headwall. Stable headgate location against sandrock cliff on river bend spill gate approximately 2 miles down ditch from HG. Low concrete dam.

**DIVERSION LOCATION**

Source: Big Wind River
N 80° 20' W, 983' from 1/4 corner between Sections 32 and 33, Township 2N, Range 2E, WRM

**CONVEYANCE DESCRIPTION**

Open Ditch, 450 c.f.s capacity, 31 miles long. Dirt canal with screw type diversion gates into sublaterals, numerous buried pipe main laterals.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 1252.90 | | 6002.96 | | |
| 7/03/1868 | Walton | Irr. | 1978.40 | | 9496.32 | | |
| 5/05/1905 | 6601 | Irr. | 545.21 | 7.78 | | 7.78 | |
| 8/07/1906 | 7300 | Irr. | 10932.63 | 156.10 | | 163.88 | |
| 4/03/1975 | 6574E | Irr. | 2.00 | 0.03 | | 163.91 | |

**STORAGE RIGHTS**

Boysen Reservoir by contract with U.S. Bureau of Reclamation 14,400 a.f. per year by exchange

**ESTIMATED CANAL LOSSES**

Varies with time of year
approximately 20% at peak

**IRRIGATION PRACTICES**

Gravity Irrigation by standard surface methods, some concrete lined ditches, some underground pipe, considerable use of gated pipe, some sprinklers, row crops.

**CROP TYPES / CONSUMPTIVE USE**

Cultivated pasture, hay,small grain, corn, beans, sugar beets, lawns and gardens.

**RETURN FLOWS**

Approximately 30% to Riverton Valley Canal, 70% to Big Wind River

**OTHER OPERATIONAL INFORMATION**

Serves municipal water to City of Riverton during summer months, serves Riverton Country Club and Mountain Veiw Cemetery. Delevery to numerous residential subdivisions.

**CONTACT INFORMATION**

Johnnie Hubenka
462 S Federal Blvd, Ste. A
Riverton, WY 82501
(307) 856-3327

**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)***

| Year | Discharge (ac-ft) Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1973 | | | | | 5,207 | 19,478 | 15,564 | 17,496 | 2,202 | | | | 59,946 |
| 1974 | | | | | 14,218 | 22,290 | 21,862 | 18,101 | 10,762 | | | | 87,233 |
| 1975 | | | | | 867 | 13,827 | 22,733 | 16,427 | 11,393 | | | | 65,246 |
| 1976 | | | | | 12,881 | 15,531 | 21,888 | 13,208 | 11,937 | | | | 75,443 |
| 1977 | | | | | 5,823 | 14,779 | 14,830 | 11,070 | 8,846 | | | | 55,349 |
| 1978 | | | | | 1,619 | 14,753 | 17,865 | 15,021 | 10,512 | | | | 59,770 |
| 1979 | | | | 0 | 2,257 | 18,573 | 20,714 | 14,753 | 11,762 | 4,255 | | | 68,059 |
| 1980 | | | | | | | | | | | | | |
| 1981 | | | | 173 | 8,470 | 12,980 | 18,360 | 12,980 | 7,180 | | | | 60,143 |
| 1982 | | | | 0 | 0 | 5,306 | 19,880 | 19,520 | 8,541 | | | | 53,247 |
| 1983 | | | | 0 | 0 | 20,400 | 22,660 | 18,560 | 14,680 | | | | 76,300 |
| 1984 | | | | 0 | 6,140 | 19,720 | 21,510 | 17,670 | 13,500 | | | | 78,540 |
| 1985 | | | | 2,060 | 18,080 | 18,180 | 18,610 | 14,630 | 11,470 | | | | 83,030 |
| 1986 | | | | 805 | 12,870 | 21,020 | 21,950 | 19,311 | 12,490 | | | | 88,446 |
| 1987 | | | | 1,310 | 17,440 | 16,890 | 20,480 | 17,250 | 11,590 | | | | 84,960 |
| 1988 | | | | 2,740 | 15,900 | 22,180 | 18,190 | 14,690 | 9,720 | | | | 83,420 |
| 1989 | | | | 4,660 | 12,960 | 12,220 | 20,380 | 18,440 | 13,410 | | | | 82,070 |
| 1990 | | | | 1,490 | 10,970 | 19,560 | 19,150 | 17,350 | 11,780 | | | | 80,300 |
| 1991 | | | | 1,690 | 4,340 | 11,820 | 21,430 | 14,380 | 12,880 | | | | 66,540 |
| 1992 | | | | 2,780 | 0 | 13,850 | 15,870 | 17,580 | 13,800 | | | | 63,880 |
| 1993 | | | | 370 | 8,320 | 11,080 | 20,140 | 17,900 | 17,140 | | | | 74,950 |
| 1994 | | | | 3,600 | 15,030 | 14,110 | 14,820 | 16,030 | 12,630 | | | | 76,220 |
| 1995 | | | | 1,750 | 4,000 | 8,370 | 18,860 | 18,100 | 13,510 | | | | 64,590 |
| 1996 | | | | 0 | 13,320 | 16,010 | 20,740 | 18,680 | 12,680 | | | | 81,430 |
| 1997 | | | | 1,400 | 15,060 | 14,860 | 23,210 | 13,390 | 13,050 | | | | 80,970 |
| 1998 | | | | 220 | 10,510 | 9,720 | 24,370 | 13,120 | 10,150 | | | | 68,090 |
| 1999 | | | | 1,570 | 5,670 | 16,800 | 23,340 | 20,710 | 10,470 | | | | 78,560 |
| 2000 | | | | 4,590 | 15,990 | 18,210 | 19,920 | 15,950 | 12,150 | | | | 86,810 |
| 2001 | | | | 1,111 | 14,571 | 15,509 | 13,589 | 13,880 | 9,935 | | | | 68,595 |
| Total | | | | 1,469 | 9,018 | 15,644 | 19,747 | 16,293 | 11,435 | 4,255 | | | 73,605 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1973 | | | | | 85 | 327 | 253 | 285 | 37 | | | | 197 |
| 1974 | | | | | 231 | 375 | 356 | 294 | 181 | | | | 287 |
| 1975 | | | | | 14 | 232 | 370 | 267 | 191 | | | | 215 |
| 1976 | | | | | 209 | 261 | 356 | 215 | 201 | | | | 248 |
| 1977 | | | | | 95 | 248 | 241 | 180 | 149 | | | | 183 |
| 1978 | | | | | 26 | 248 | 291 | 244 | 177 | | | | 197 |
| 1979 | | | | 0 | 37 | 312 | 337 | 240 | 198 | 69 | | | 187 |
| 1980 | | | | | | | | | | | | | |
| 1981 | | | | 3 | 138 | 218 | 299 | 211 | 121 | | | | 165 |
| 1982 | | | | 0 | 0 | 89 | 323 | 317 | 144 | | | | 146 |
| 1983 | | | | 0 | 0 | 343 | 369 | 302 | 247 | | | | 210 |
| 1984 | | | | 0 | 100 | 331 | 350 | 287 | 227 | | | | 216 |
| 1985 | | | | 35 | 294 | 306 | 303 | 238 | 193 | | | | 228 |
| 1986 | | | | 14 | 209 | 353 | 357 | 314 | 210 | | | | 243 |
| 1987 | | | | 22 | 284 | 284 | 333 | 281 | 195 | | | | 233 |
| 1988 | | | | 46 | 259 | 373 | 296 | 239 | 163 | | | | 229 |
| 1989 | | | | 78 | 211 | 205 | 331 | 300 | 225 | | | | 225 |
| 1990 | | | | 25 | 178 | 329 | 311 | 282 | 198 | | | | 221 |
| 1991 | | | | 28 | 71 | 199 | 349 | 234 | 216 | | | | 183 |
| 1992 | | | | 47 | 0 | 233 | 258 | 286 | 232 | | | | 176 |
| 1993 | | | | 6 | 135 | 186 | 328 | 291 | 288 | | | | 206 |
| 1994 | | | | 60 | 244 | 237 | 241 | 261 | 212 | | | | 209 |
| 1995 | | | | 29 | 65 | 141 | 307 | 294 | 227 | | | | 177 |
| 1996 | | | | 0 | 217 | 269 | 337 | 304 | 213 | | | | 223 |
| 1997 | | | | 24 | 245 | 250 | 377 | 218 | 219 | | | | 222 |
| 1998 | | | | 4 | 171 | 163 | 396 | 213 | 171 | | | | 186 |
| 1999 | | | | 26 | 92 | 282 | 380 | 337 | 176 | | | | 216 |
| 2000 | | | | 77 | 260 | 306 | 324 | 259 | 204 | | | | 238 |
| 2001 | | | | 19 | 237 | 261 | 221 | 226 | 167 | | | | 188 |
| Average | | | | 25 | 147 | 263 | 321 | 265 | 192 | 69 | | | 183 |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

LEFT HAND CANAL (ALSO KNOWN AS BIG WIND RIVER DITCH)

**DIVERSION DESCRIPTION**

Sliding metal gates in concrete headwall.

**DIVERSION LOCATION**

Source: Big Wind River
At the section corner common to Sections 27,28,33 and 34 in Township 1N, Range 3E. WRM

**CONVEYANCE DESCRIPTION**

Dirt canal, 5 miles long with screw type headgates for turnouts into sublaterals, concrete drops and check structuresin main canal and laterals, same wooden divider boxes on-farm. Six major sublaterals with approximately 60 individual turnouts to farm fields. Capacity is approximately 45 c.f.s.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 7267.00 | | 1205.00 | | |
| 7/03/1868 | Walton | Irr. | 69.87 | | 421.32 | | |
| 3/18/1905 | 6634 | Irr. | 570.20 | 4.35 | | 4.35 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

Varies with season
Estimated 25% at peak

**IRRIGATION PRACTICES**

Flood irrigation by gravity methods, some moveable pipe on-farm.

**CROP TYPES / CONSUMPTIVE USE**

Native pasture, cultivated pasture, grass and alfalfa hay, small grains, lawns and gardens, and occasional corn.

**RETURN FLOWS**

Approximately 65% to the Big Wind River, and 35% to the Little Wind River.

**OTHER OPERATIONAL INFORMATION**

Some co-mingling of water from Sub Agency Ditch possible. Tail end of canal could be used to transport Little Wind River water to the Big Wind River via Sub Agency Canal.

**CONTACT INFORMATION**

U.S. Bureau of Indian Affairs, Irrigation Department
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)***

| Year | Discharge (ac-ft) 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 | | | | | 1,283 | 1,448 | 1,793 | 1,878 | 1,357 | | | | 7,759 |
| 1992 | | | | 0 | 2,170 | 1,480 | 1,870 | 1,520 | 1,390 | | | | 8,430 |
| 1993 | | | | 0 | 1,240 | 2,360 | 1,190 | 1,650 | 1,890 | | | | 8,330 |
| 1994 | | | | 0 | 1,300 | 2,100 | 2,740 | 2,930 | 2,550 | | | | 11,620 |
| 1995 | | | | | 469 | 760 | 1,289 | 1,710 | 1,092 | | | | 5,320 |
| 1996 | | | | 0 | 520 | 890 | 1,520 | 1,450 | 1,100 | | | | 5,480 |
| 1997 | | | | 0 | 1,360 | 1,490 | 1,560 | 990 | 1,270 | | | | 6,670 |
| 1998 | | | | 0 | 850 | 1,220 | 1,640 | 540 | 870 | | | | 5,120 |
| 1999 | | | | 0 | 250 | 990 | 1,530 | 1,210 | 620 | | | | 4,600 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | 1,445 | 2,475 | 2,503 | 2,009 | 2,289 | | | | 10,722 |
| Total | | | | 0 | 1,089 | 1,521 | 1,764 | 1,589 | 1,443 | | | | 7,405 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) 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 | | | | | 21 | 24 | 29 | 31 | 23 | | | | 26 |
| 1992 | | | | 0 | 35 | 25 | 30 | 25 | 23 | | | | 23 |
| 1993 | | | | 0 | 20 | 40 | 19 | 27 | 32 | | | | 23 |
| 1994 | | | | 0 | 21 | 35 | 45 | 48 | 43 | | | | 32 |
| 1995 | | | | | 8 | 13 | 21 | 28 | 18 | | | | 18 |
| 1996 | | | | 0 | 8 | 15 | 25 | 24 | 18 | | | | 15 |
| 1997 | | | | 0 | 22 | 25 | 25 | 16 | 21 | | | | 18 |
| 1998 | | | | 0 | 14 | 21 | 27 | 9 | 15 | | | | 14 |
| 1999 | | | | 0 | 4 | 17 | 25 | 20 | 10 | | | | 13 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | 24 | 42 | 41 | 33 | 38 | | | | 35 |
| Average | | | | 0 | 18 | 26 | 29 | 26 | 24 | | | | 20 |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

LOWER WIND RIVER A CANAL

**DIVERSION DESCRIPTION**

Manually operated sliding gates in concrete rectangle.

**DIVERSION LOCATION**

Source: Big Wind River/Dry Creek
SE 1/4 NE 1/4 Section 32, Township 5N, Range 4W, WRM
Rediversion of Big Wind River flows co-mingled with natural flows of Dry Creek

**CONVEYANCE DESCRIPTION**

Open dirt ditch 3 1/2 miles long with concrete check structures and screw type delivery gates to individual fields and sublaterals.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 1177.00 | | 10683.00 | | |
| 4/27/1905 | 6625 | Irr. | 315.03 | 4.49 | | 4.49 | |
| 12/08/1905 | 1462E | Irr. | 1.00 | 0.01 | | 4.50 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

Varies with time of year, estimated 40% at peak

**IRRIGATION PRACTICES**

Conventional wild flooding practices through dirt ditches, some gated pipe.

**CROP TYPES / CONSUMPTIVE USE**

Native hay, alfalfa hay, pasture, some small grains, lawns and gardens.

**RETURN FLOWS**

100% to Big Wind River, directly and via Dry Creek and Cottonwood Draw.

**OTHER OPERATIONAL INFORMATION**

BIA management with local user group, BIA employs ditch rider

**CONTACT INFORMATION**

U.S. Bureau of Indian Affairs, Irrigation Dept.
Fort Washakie, WY
(307)332-2596

Tim Schell
Crowheart, WY
(307)486-2203

**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)***

| Year | Discharge (ac-ft) 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 | | | | | | | | | | | | | |
| 1993 | | | | | | | | | | | | | |
| 1994 | | | | | | | | | | | | | |
| 1995 | | | | | | | | | | | | | |
| 1996 | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | |
| 1998 | | | | | | | | | | | | | |
| 1999 | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | 0 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) 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 | | | | | | | | | | | | | |
| 1993 | | | | | | | | | | | | | |
| 1994 | | | | | | | | | | | | | |
| 1995 | | | | | | | | | | | | | |
| 1996 | | | | | | | | | | | | | |
| 1997 | | | | | | | | | | | | | |
| 1998 | | | | | | | | | | | | | |
| 1999 | | | | | | | | | | | | | |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | ERR |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

RIVERTON VALLEY CANAL

**DIVERSION DESCRIPTION**

Manually operated sliding steel gates in concrete headwall. Gravel diversion dam, spill gate 1 1/2 miles down ditch.

**DIVERSION LOCATION**

Source: Big Wind River
S 43° 45' W, 831' from the SE corner of Section 27, Township 1N, Range 3E. WRM
Type: Manual Gates 185 c.f.s. capacity

**CONVEYANCE DESCRIPTION**

Open dirt canal, some open concrete lining, some closed pipe lining ditch, canal, and pipe. 185 c.f.s. capacity, 28 miles long screw type headgates for delivery into sublaterals, some piped laterals.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 8/07/1906 | 7300 | Irr. | 8890.00 | 127.00 | | | |

**STORAGE RIGHTS**

Boysen contract for 9000 acre feet per year by exchange

**ESTIMATED CANAL LOSSES**

Varies with season
Estimated 10% at peak

**IRRIGATION PRACTICES**

Open dirt laterals, concrete lined ditches, underground pipe, sprinklers. 8,033 irrigated acres, 610 users. Includes delivery to various subdivisions within Riverton city limits, small lawn pumps

**CROP TYPES / CONSUMPTIVE USE**

Pasture, hay, small grains, corn, beans, sugar beets, gardens, and lawns.

**RETURN FLOWS**

100% to Big Wind / Big Horn River, some directly, some via Madden Draw, and some via constructed drains.

**OTHER OPERATIONAL INFORMATION**

Recieves considerable inflows from LeClair Canal return flows.

**CONTACT INFORMATION**

Robert Rein
420 East Washington
Riverton, WY 82501
(307) 856-3103

**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)***

| Year | Discharge (ac-ft) Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1973 | | | | | 2,836 | 7,740 | 6,345 | 6,077 | 577 | | | | 23,576 |
| 1974 | | | | | 5,726 | 7,025 | 7,892 | 5,328 | 3,646 | | | | 29,617 |
| 1975 | | | | | 1,061 | 6,942 | 8,924 | 6,149 | 4,772 | | | | 27,848 |
| 1976 | | | | | 5,056 | 6,645 | 8,771 | 5,423 | 4,951 | | | | 30,845 |
| 1977 | | | | | 4,520 | 7,942 | 6,536 | 4,106 | 3,043 | | | | 26,146 |
| 1978 | | | | | 1,313 | 7,886 | 8,539 | 5,732 | 3,352 | | | | 26,822 |
| 1979 | | | | 0 | 1,400 | 9,178 | 9,632 | 4,826 | 4,673 | | | | 29,709 |
| 1980 | | | | | | | | | | | | | |
| 1981 | | | | 0 | 4,120 | 7,510 | 7,810 | 5,940 | 3,630 | | | | 29,010 |
| 1982 | | | | 0 | 8,281 | 6,839 | 8,906 | 4,758 | 2,321 | | | | 31,105 |
| 1983 | | | | 0 | 2,130 | 8,480 | 8,290 | 5,780 | 4,030 | | | | 28,710 |
| 1984 | | | | 0 | 4,240 | 7,910 | 9,170 | 5,810 | 4,730 | | | | 31,860 |
| 1985 | | | | 3,210 | 8,640 | 8,010 | 8,150 | 6,080 | 5,760 | | | | 39,850 |
| 1986 | | | | 1,440 | 7,940 | 7,600 | 8,050 | 6,150 | 4,310 | | | | 35,490 |
| 1987 | | | | 940 | 8,090 | 7,390 | 7,390 | 5,610 | 4,710 | | | | 34,130 |
| 1988 | | | | 1,910 | 9,020 | 9,690 | 8,860 | 7,620 | 4,820 | | | | 41,920 |
| 1989 | | | | 3,640 | 7,080 | 5,010 | 8,990 | 7,030 | 4,330 | | | | 36,080 |
| 1990 | | | | 1,370 | 6,650 | 9,050 | 9,150 | 7,510 | 6,080 | | | | 39,810 |
| 1991 | | | | 1,390 | 4,410 | 7,070 | 10,270 | 7,420 | 5,740 | | | | 36,300 |
| 1992 | | | | 1,610 | 8,600 | 5,000 | 6,820 | 7,360 | 5,490 | | | | 34,880 |
| 1993 | | | | 540 | 5,520 | 4,870 | 8,990 | 7,110 | 6,900 | | | | 33,930 |
| 1994 | | | | 1,740 | 9,030 | 7,730 | 8,210 | 7,740 | 5,450 | | | | 39,900 |
| 1995 | | | | 780 | 2,130 | 3,640 | 8,430 | 8,370 | 5,200 | | | | 28,550 |
| 1996 | | | | 740 | 8,410 | 6,430 | 9,350 | 7,330 | 5,990 | | | | 38,250 |
| 1997 | | | | 1,210 | 6,890 | 4,490 | 8,767 | 7,230 | 6,250 | | | | 34,837 |
| 1998 | | | | 0 | 6,560 | 4,520 | 8,220 | 5,300 | 5,690 | | | | 30,290 |
| 1999 | | | | 660 | 3,530 | 6,390 | 8,680 | 6,850 | 4,830 | | | | 30,940 |
| 2000 | | | | 2,930 | 6,860 | 6,730 | 8,180 | 6,790 | 4,090 | | | | 35,580 |
| 2001 | | | | 526 | 8,152 | 6,276 | 7,410 | 7,160 | 2,940 | | | | 32,464 |
| Total | | | | 1,120 | 5,650 | 6,928 | 8,383 | 6,378 | 4,582 | | | | 33,042 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1973 | | | | | 46 | 130 | 103 | 99 | 10 | | | | 78 |
| 1974 | | | | | 93 | 118 | 128 | 87 | 61 | | | | 97 |
| 1975 | | | | | 17 | 117 | 145 | 100 | 80 | | | | 92 |
| 1976 | | | | | 82 | 112 | 143 | 88 | 83 | | | | 102 |
| 1977 | | | | | 74 | 133 | 106 | 67 | 51 | | | | 86 |
| 1978 | | | | | 21 | 133 | 139 | 93 | 56 | | | | 88 |
| 1979 | | | | 0 | 23 | 154 | 157 | 78 | 79 | | | | 82 |
| 1980 | | | | | | | | | | | | | |
| 1981 | | | | 0 | 67 | 126 | 127 | 97 | 61 | | | | 80 |
| 1982 | | | | 0 | 135 | 115 | 145 | 77 | 39 | | | | 85 |
| 1983 | | | | 0 | 35 | 143 | 135 | 94 | 68 | | | | 79 |
| 1984 | | | | 0 | 69 | 133 | 149 | 94 | 79 | | | | 87 |
| 1985 | | | | 54 | 141 | 135 | 133 | 99 | 97 | | | | 110 |
| 1986 | | | | 24 | 129 | 128 | 131 | 100 | 72 | | | | 97 |
| 1987 | | | | 16 | 132 | 124 | 120 | 91 | 79 | | | | 94 |
| 1988 | | | | 32 | 147 | 163 | 144 | 124 | 81 | | | | 115 |
| 1989 | | | | 61 | 115 | 84 | 146 | 114 | 73 | | | | 99 |
| 1990 | | | | 23 | 108 | 152 | 149 | 122 | 102 | | | | 109 |
| 1991 | | | | 23 | 72 | 119 | 167 | 121 | 96 | | | | 100 |
| 1992 | | | | 27 | 140 | 84 | 111 | 120 | 92 | | | | 96 |
| 1993 | | | | 9 | 90 | 82 | 146 | 116 | 116 | | | | 93 |
| 1994 | | | | 29 | 147 | 130 | 134 | 126 | 92 | | | | 109 |
| 1995 | | | | 13 | 35 | 61 | 137 | 136 | 87 | | | | 78 |
| 1996 | | | | 12 | 137 | 108 | 152 | 119 | 101 | | | | 105 |
| 1997 | | | | 20 | 112 | 75 | 143 | 118 | 105 | | | | 96 |
| 1998 | | | | 0 | 107 | 76 | 134 | 86 | 96 | | | | 83 |
| 1999 | | | | 11 | 57 | 107 | 141 | 111 | 81 | | | | 85 |
| 2000 | | | | 49 | 112 | 113 | 133 | 110 | 69 | | | | 98 |
| 2001 | | | | 9 | 133 | 105 | 121 | 116 | 49 | | | | 89 |
| Average | | | | 19 | 92 | 116 | 136 | 104 | 77 | | | | 91 |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

UPPER WIND RIVER A CANAL

**DIVERSION DESCRIPTION**

Manually operated sliding gates in concrete headwall.

**DIVERSION LOCATION**

Source: Big Wind River
N 4° 45' E, 4818, from the SW corner Section 14, Township 5N, Range 5W, WRM

**CONVEYANCE DESCRIPTION**

Open dirt dirch 4 1/2 miles long with concrete check structures and screw type delivery gates to individual fields and sublaterals. Capacity ~ 75 c.f.s.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 1177.00 | | 10683.00 | | |
| 4/27/1905 | 6625 | Irr. | 315.03 | 4.49 | | 4.49 | |
| 12/08/1905 | 1462E | Irr. | 1.00 | 0.01 | | 4.50 | |

**STORAGE RIGHTS**

None

**ESTIMATED CANAL LOSSES**

Varies with time of year, estimated 40% at peak

**IRRIGATION PRACTICES**

Conventional wild flooding practices through dirt ditches, some gated pipe.

**CROP TYPES / CONSUMPTIVE USE**

Native pasture, native hay, alfalfa hay, some small grains, lawns and gardens.

**RETURN FLOWS**

100% to Big Wind River, directly and via Dry Creek.

**OTHER OPERATIONAL INFORMATION**

User operated under BIA oversight - BIA employs ditch rider

**CONTACT INFORMATION**

U.S. Bureau of Indian Affairs, Irrigation Dept.
Fort Washakie, WY
(307)332-2596

Tim Schell
Crowheart, WY
(307)486-2203

**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)***

| Year | Discharge (ac-ft) 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 | | | | | | | | | | | | | |
| 1993 | | | | | | | | | | | | | |
| 1994 | | | | | | | | | | | | | |
| 1995 | | | | | | | | | | | | | |
| 1996 | | | | | | | | | | | | | |
| 1997 | | | | 0 | 2,700 | 3,600 | 4,020 | 3,700 | 2,540 | | | | 16,560 |
| 1998 | | | | 0 | 3,670 | 3,800 | 3,710 | 3,500 | 3,700 | | | | 18,380 |
| 1999 | | | | | 2,296 | 3,243 | 3,039 | 3,279 | 2,635 | | | | 14,491 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | 592 | 4,508 | 4,564 | 2,795 | 3,697 | 3,400 | | | | 19,557 |
| Total | | | | 197 | 3,294 | 3,802 | 3,391 | 3,544 | 3,069 | | | | 17,296 |

***Monthly Summary (cfs)***

| Year | Discharge (cfs) 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 | | | | | | | | | | | | | |
| 1993 | | | | | | | | | | | | | |
| 1994 | | | | | | | | | | | | | |
| 1995 | | | | | | | | | | | | | |
| 1996 | | | | | | | | | | | | | |
| 1997 | | | | 0 | 44 | 60 | 65 | 60 | 43 | | | | 45 |
| 1998 | | | | 0 | 60 | 64 | 60 | 57 | 62 | | | | 50 |
| 1999 | | | | | 37 | 55 | 49 | 53 | 44 | | | | 48 |
| 2000 | | | | | | | | | | | | | |
| 2001 | | | | 10 | 73 | 77 | 45 | 60 | 57 | | | | 54 |
| Average | | | | 3 | 54 | 64 | 55 | 58 | 52 | | | | 48 |

Notes:

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

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

**DESCRIPTION AND OPERATION MEMORANDUM**

WYOMING CANAL

USGS ID 43108 C4, 43108 C5, 43108 B2, 43108 B3, 43108 B4, 43108 B5, 43108 B6, 43108 C3, 43108 C6, 43108 A4
USGS Name Mexican Pass SW, Harris Bridge, Riverton West, Hidden Valley, Riverton NE
Pavillion Butte, Morton, Lost Wells Butte, Ocean Lake, Pavillion, Mexican Pass SE

**DIVERSION DESCRIPTION**

Concrete diversion dam across full width of river with electrically controlled radial gate openings for river by pass.

**DIVERSION LOCATION**
Source: Big Wind River
NE 1/4 NE 1/4 Section 23 Township 3N Range 2W

**CONVEYANCE DESCRIPTION**

Open dirt canal with concrete lined sections, numerous concrete drops and check structures, screw type headgates for delivery into laterals, sublaterals, and farm delivery ditches; bi-furication works divides the system into two main canals (Pilot Canal and Wyoming Canal), lower 20 miles of Wyoming Canal is buried pipe.

**WYOMING WATER RIGHTS**

| Priority Date | Permit Number | Permit Use | Acres | Flow(cfs) | (af) | Cumulative Flow(cfs) | Comments |
|---|---|---|---|---|---|---|---|
| 7/03/1868 | Wind River Tribes | Irr. | 2229.00 | | 10684.36 | | |
| 7/08/1906 | 7300 | Irr. | 73775.00 | 1045.00 | | 1045.00 | |

**STORAGE RIGHTS**

Bull Lake Reservoir - 152,000 A.F.
Pilot Butte - 30,000 A.F.

**ESTIMATED CANAL LOSSES**

Varies with time of year
Est. 30% at peak

**IRRIGATION PRACTICES**

Conventional flood irrigation practices. Considerable concrete lined delivery ditches, underground pipe, gated pipe, side roll, handset, and center pivot sprinklers.

**CROP TYPES / CONSUMPTIVE USE**

Pasture, grass hay, alfalfa hay, small grains, row crops - beans, corn and sugar beets.

**RETURN FLOWS**

Some to 5-mile Creek, some to Muddy Creek, some to Cottonwood Creek, some directly to Boysen Reservoir.

**OTHER OPERATIONAL INFORMATION**

Managed by formal irrigation istrict board abd Bureau of Reclamation

**CONTACT INFORMATION**

Midvale Irrigation District
Pavillion, Wy
(307)856-6359

**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 | 0 | 0 | 5,357 | 18,647 | 38,291 | 93,363 | 69,706 | 58,920 | 20,043 | 1,835 | 0 | 0 | 304,328 |
| 1974 | 0 | 0 | 0 | 20,926 | 54,915 | 91,162 | 89,734 | 67,990 | 50,337 | 155 | 0 | 0 | 375,064 |
| 1975 | 0 | 0 | 0 | 11,480 | 21,721 | 72,703 | 92,709 | 80,004 | 55,024 | 103 | 0 | 0 | 333,643 |
| 1976 | 0 | 0 | 0 | 11,782 | 71,261 | 90,428 | 106,752 | 72,035 | 62,282 | | | | 414,540 |
| 1977 | | | | 23,542 | 22,769 | 60,616 | 56,591 | 30,250 | 32,884 | 0 | | | 226,653 |
| 1978 | | | 19,667 | 22,459 | 24,667 | 82,785 | 94,276 | 69,307 | 47,628 | 10 | 0 | 0 | 360,789 |
| 1979 | | | | 5,639 | 37,761 | 84,914 | 85,656 | 69,622 | 36,405 | | | | 319,997 |
| 1980 | 0 | 0 | 6,230 | 26,162 | 42,604 | 88,270 | 96,378 | 64,989 | 54,009 | 20 | 0 | 0 | 378,642 |
| 1981 | 0 | 0 | 15,741 | 19,409 | 48,945 | 75,855 | 93,899 | 68,145 | 55,320 | 9,511 | 0 | 0 | 377,313 |
| 1982 | | | | 0 | 54,960 | 81,490 | 101,170 | 80,155 | 46,400 | | | | 364,175 |
| 1983 | | | | | | | | | | | | | |
| 1984 | | | | | | | | | | | | | |
| 1985 | | | | 25,800 | 74,000 | 78,470 | 72,810 | 66,710 | 61,160 | | | | 378,950 |
| 1986 | | | | | | | | | | | | | |
| 1987 | | | | 27,800 | 78,360 | 71,790 | 94,280 | 67,160 | 50,764 | | | | 390,154 |
| 1988 | | | | 24,640 | 59,220 | 79,160 | 78,150 | 52,740 | 39,520 | | | | 333,430 |
| 1989 | | | | 17,220 | 54,590 | 62,770 | 86,120 | 59,130 | 47,240 | | | | 327,070 |
| 1990 | | | | 15,830 | 50,420 | 99,270 | 84,670 | 59,310 | 59,400 | | | | 368,900 |
| 1991 | | | | 16,020 | 25,210 | 60,720 | 93,070 | 69,500 | 48,080 | | | | 312,600 |
| 1992 | | | | 16,980 | 68,170 | 46,470 | 58,500 | 60,390 | 50,930 | | | | 301,440 |
| 1993 | | | | 6,190 | 39,470 | 59,530 | 77,320 | 77,520 | 52,220 | | | | 312,250 |
| 1994 | | | | 17,920 | 65,870 | 65,340 | 61,100 | 51,980 | 16,470 | | | | 278,680 |
| 1995 | | | | 8,400 | 29,900 | 62,930 | 91,960 | 86,220 | 54,620 | | | | 334,030 |
| 1996 | | | | 16,310 | 69,260 | 89,630 | 93,500 | 77,750 | 65,260 | | | | 411,710 |
| 1997 | | | | 13,090 | 66,540 | 72,540 | 100,600 | 65,170 | 69,530 | | | | 387,470 |
| 1998 | | | | 10,710 | 61,290 | 67,010 | 98,400 | 77,440 | 63,830 | | | | 378,680 |
| 1999 | | | | 17,270 | 39,680 | 87,080 | 101,890 | 78,530 | 54,140 | | | | 378,590 |
| 2000 | | | | 21,640 | 71,136 | 70,846 | 68,910 | 68,880 | 49,475 | | | | 350,887 |
| 2001 | | | | 16,302 | 52,456 | 57,871 | 58,553 | 46,029 | 17,157 | | | | 248,368 |
| Total | 0 | 0 | 6,714 | 16,622 | 50,903 | 75,116 | 84,873 | 66,380 | 48,466 | 1,662 | 0 | 0 | 349,074 |

***Monthly Summary (cfs)***

| | Discharge (cfs) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
| 1973 | 0 | 0 | 87 | 313 | 623 | 1,569 | 1,134 | 958 | 337 | 30 | 0 | 0 | 558 |
| 1974 | 0 | 0 | 0 | 352 | 893 | 1,532 | 1,459 | 1,106 | 846 | 3 | 0 | 0 | 688 |
| 1975 | 0 | 0 | 0 | 193 | 353 | 1,222 | 1,508 | 1,301 | 925 | 2 | 0 | 0 | 611 |
| 1976 | 0 | 0 | 0 | 198 | 1,159 | 1,520 | 1,736 | 1,172 | 1,047 | | | | 759 |
| 1977 | | | | 396 | 370 | 1,019 | 920 | 492 | 553 | 0 | | | 625 |
| 1978 | | | 320 | 377 | 401 | 1,391 | 1,533 | 1,127 | 800 | 0 | 0 | 0 | 850 |
| 1979 | | | | 95 | 614 | 1,427 | 1,393 | 1,132 | 612 | | | | 879 |
| 1980 | 0 | 0 | 101 | 440 | 693 | 1,483 | 1,567 | 1,057 | 908 | 0 | 0 | 0 | 694 |
| 1981 | 0 | 0 | 256 | 326 | 796 | 1,275 | 1,527 | 1,108 | 930 | 155 | 0 | 0 | 691 |
| 1982 | | | | 0 | 894 | 1,369 | 1,645 | 1,304 | 780 | | | | 999 |
| 1983 | | | | | | | | | | | | | |
| 1984 | | | | | | | | | | | | | |
| 1985 | | | | 434 | 1,203 | 1,319 | 1,184 | 1,085 | 1,028 | | | | 1,042 |
| 1986 | | | | | | | | | | | | | |
| 1987 | | | | 467 | 1,274 | 1,206 | 1,533 | 1,092 | 853 | | | | 1,071 |
| 1988 | | | | 414 | 963 | 1,330 | 1,271 | 858 | 664 | | | | 917 |
| 1989 | | | | 289 | 888 | 1,055 | 1,401 | 962 | 794 | | | | 898 |
| 1990 | | | | 266 | 820 | 1,668 | 1,377 | 965 | 998 | | | | 1,016 |
| 1991 | | | | 269 | 410 | 1,020 | 1,514 | 1,130 | 808 | | | | 859 |
| 1992 | | | | 285 | 1,109 | 781 | 951 | 982 | 856 | | | | 827 |
| 1993 | | | | 104 | 642 | 1,000 | 1,257 | 1,261 | 878 | | | | 857 |
| 1994 | | | | 301 | 1,071 | 1,098 | 994 | 845 | 277 | | | | 764 |
| 1995 | | | | 141 | 486 | 1,058 | 1,496 | 1,402 | 918 | | | | 917 |
| 1996 | | | | 274 | 1,126 | 1,506 | 1,521 | 1,264 | 1,097 | | | | 1,131 |
| 1997 | | | | 220 | 1,082 | 1,219 | 1,636 | 1,060 | 1,168 | | | | 1,064 |
| 1998 | | | | 180 | 997 | 1,126 | 1,600 | 1,259 | 1,073 | | | | 1,039 |
| 1999 | | | | 290 | 645 | 1,463 | 1,657 | 1,277 | 910 | | | | 1,041 |
| 2000 | | | | 364 | 1,157 | 1,191 | 1,121 | 1,120 | 831 | | | | 964 |
| 2001 | | | | 274 | 853 | 973 | 952 | 749 | 288 | | | | 681 |
| Average | 0 | 0 | 109 | 279 | 828 | 1,262 | 1,380 | 1,080 | 814 | 27 | 0 | 0 | 482 |

Notes:

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

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