
MEMORANDUM

Subject: **Bear River Basin Plan**
 Key Structures and Diversions
 COVEY CANAL DIVERSION

Date: August 7, 2000

Diversion Description: The Covey Canal headgate consists of two 62-inch rectangular steel gates set into a concrete headwall. The structure was built in the early 1990's. There is a concrete cut-off wall across the river to divert flows. There is a side outlet gate to pass low flows downstream.



Covey Canal headgate structure



*Covey Canal cut-off wall
across the Smiths Fork*

Diversion Location: The Covey Canal headgate structure is located on Smiths Fork, tributary to the Bear River. Brunner Creek and Spring Creek are also captured by the Covey Canal. Diversion records are maintained (and regulation occurs) at both confluences as well as at the headgate. The Diversion is regulated as part of the Central Division of the Bear River Compact. See location map hereafter.

Latitude N 42° 07' 19.6"
Longitude W 110° 54' 08.3"

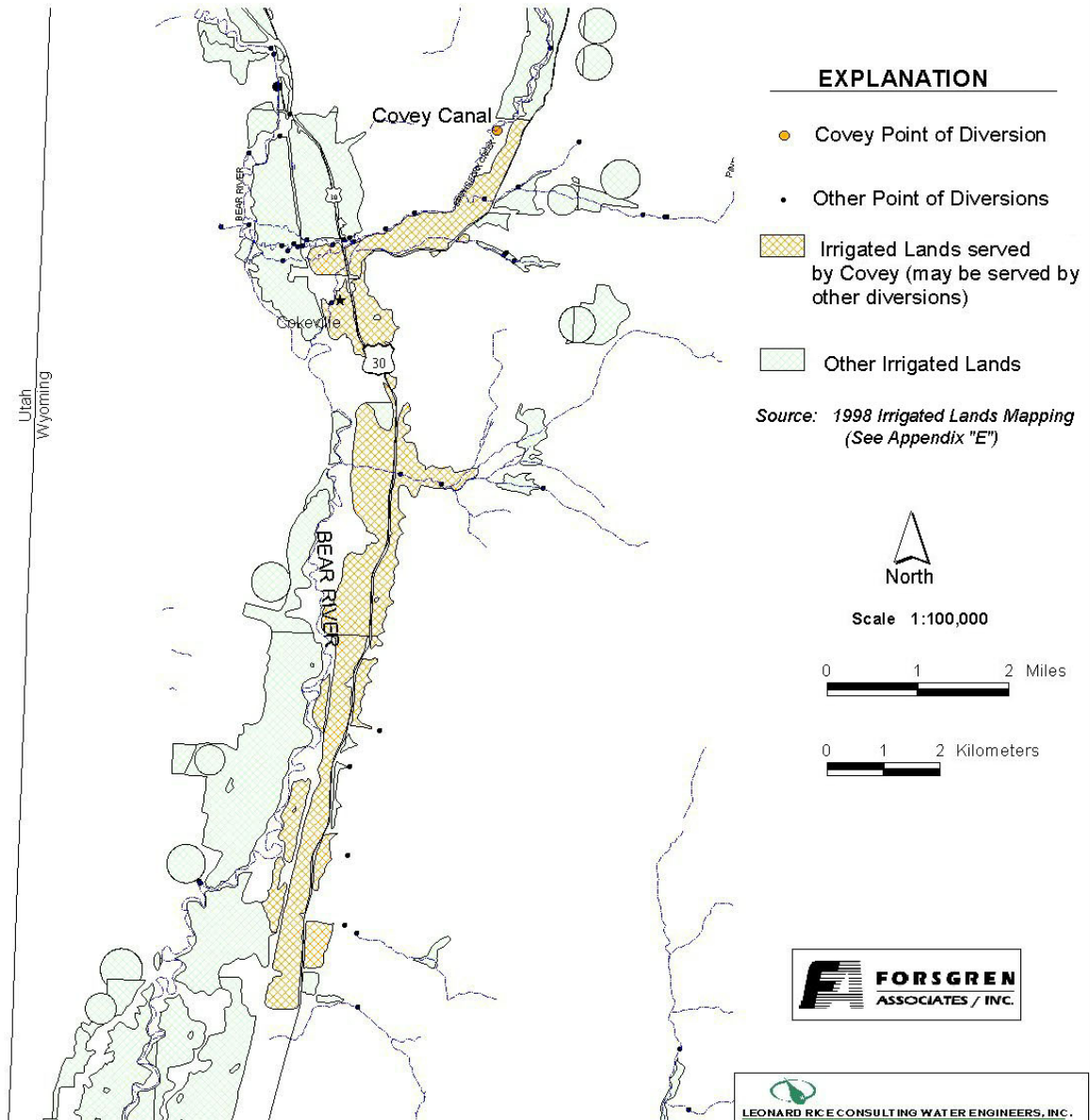
Conveyance Description: Open channel canal, approximately 121,000 feet in length¹

Direct Flow Water Rights:²

| Priority Date | Permit Number | Permitted Use | Permitted Acres | Flow (CFS) | Cumulative (CFS) | Comments |
|---------------|---------------|-------------------------------|-----------------|------------|------------------|----------|
| 05-22-1886 | TERR | Irrigation, Storage | 70 | 1.00 | 1.00 | |
| 10-28-1886 | TERR | Irrigation, Storage | 165 | 2.36 | 3.36 | |
| 10-28-1886 | TERR | Irrigation, Storage | 70 | 1.00 | 4.36 | |
| 05-10-1890 | TERR | Irrigation, Storage | 65 | 0.93 | 5.29 | |
| 05-18-1893 | 491 | Irrigation | 275 | 2.92 | 9.21 | |
| 06-20-1894 | 750 | Irrigation, Domestic, Storage | 319.96 | 4.57 | 13.78 | |
| 05-31-1897 | 514 | Irrigation, Domestic, Storage | 514 | 7.34 | 21.12 | |
| 04-21-1902 | 823E | Irrigation, Domestic, Storage | 34 | 0.18 | 21.60 | |
| 09-26-1903 | 1094E | Irrigation, Domestic, Storage | 40 | 0.57 | 22.17 | |
| 03-09-1909 | 2065E | Irrigation | 45 | 0.64 | 22.81 | |
| 03-09-1909 | 2065E | Irrigation | 119 | 1.70 | 24.51 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 403.18 | 5.75 | 30.26 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 201.46 | 2.88 | 33.14 | |
| 06-19-1909 | 9120 | Irrigation, Domestic | 47.20 | 0.67 | 33.81 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 47.58 | 0.68 | 34.49 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 73.45 | 1.05 | 35.54 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 26.76 | 0.37 | 35.91 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 100 | 1.42 | 37.33 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 336.88 | 4.81 | 42.14 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 154.66 | 2.20 | 44.34 | |

| | | | | | | |
|------------|-------|-------------------------------------|--------|--------|-------|--|
| 06-09-1909 | 9120 | Irrigation, Domestic | 44 | 0.63 | 44.97 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 26.16 | 0.37 | 45.34 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 31.55 | 0.44 | 45.78 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 139.25 | 1.99 | 47.77 | |
| 06-09-1909 | | Supplemental Supply | | 121.47 | | <i>Pixley, Bear River</i> |
| 06-09-1909 | | Supplemental Supply | | 351.28 | | <i>Leeds Creek</i> |
| 06-09-1909 | 9120 | Irrigation, Storage | 101.20 | 1.44 | 49.21 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 200 | 1.86 | 52.07 | |
| 06-09-1909 | 9120 | Irrigation, Domestic | 61.65 | 0.88 | 52.95 | |
| 06-09-1909 | | Supplemental Supply | | 25.48 | | <i>Pixley, Bear River</i> |
| 06-09-1909 | | Supplemental Supply | | 17.17 | | <i>Leeds Creek</i> |
| 09-05-1911 | 2585E | Irrigation, Domestic, Storage | 185.62 | 2.65 | 55.60 | |
| 11-20-1912 | 2700E | Irrigation, Domestic | 55.72 | 0.79 | 56.39 | |
| 11-20-1912 | 2700E | Irrigation, Domestic | 28.23 | 0.40 | 56.79 | |
| 11-20-1912 | 2700E | Irrigation, Domestic | 110.33 | 1.58 | 58.37 | |
| 11-20-1912 | 2700E | Irrigation, Domestic | 28.45 | .040 | 58.77 | |
| 11-20-1912 | 2700E | Irrigation, Domestic | 13.84 | 0.19 | 58.96 | |
| 08-30-1913 | 2913E | Irrigation | 14 | 0.20 | 59.16 | |
| 08-30-1913 | 2914E | Irrigation | 55 | 0.79 | 59.95 | |
| 08-30-1913 | 2915E | Irrigation | 15.50 | 0.22 | 60.17 | |
| 08-30-1913 | 2916E | Irrigation | 32 | 0.46 | 60.63 | |
| 09-27-1927 | 4561E | Irrigation | 99.60 | 1.42 | 62.05 | |
| 01-08-1953 | 5657E | Irrigation, Storage | 75 | 1.07 | 63.12 | |
| 01-08-1953 | 5657E | Supplemental Supply | | 27 | | <i>Haggerty No. 3, Brunner Creek</i> |

Covey Point of Diversion Location Map



Associated Storage Rights: None

Irrigation Practices: Irrigation practices are mixed (Approx. 70% flood irrigation, 30% center pivot sprinkler irrigation).³

Estimated Diversion Efficiency:

Calculated Diversion Efficiency = Conveyance Efficiency X Application Efficiency:

| | |
|--------------------------------------|------------|
| Conveyance Efficiency: | 45% |
| Application Efficiency: | <u>65%</u> |
| Overall Diversion Efficiency: | 30% |

Conveyance efficiency is estimated based on total length of main canal. Application efficiency for flood irrigation and sprinkler irrigation is estimated at 55% and 85% respectively.

Crop Types / Consumptive Use: Irrigated acreage is mixed between meadow grasses, alfalfa, and grains (primarily oats). In general, the sprinkled acreage is alfalfa and grains.³

Return Flows: Return flow is primarily captured the Whites Water Ditch (approx. 10%) with the remaining 90% returning to the Bear River.

The following return flow pattern was adopted for modeling in this study are as follows:

| <u>Month</u> <u>(after initial Diversion)</u> | <u>Percent of Return</u> |
|--|--------------------------|
| 0 | 50% |
| 1 | 25% |
| 2 | 15% |
| 3 | <u>10%</u> |
| | 100% |

Other Operational Information: The Covey Canal is operated by the Smiths Fork Irrigation District. The canal is very long with the most senior water rights appropriated to irrigated lands near the end of the canal.

References:

- 1) *USDA -Soil Conservation Service Economic Research Service-Forest Service in Cooperation with the States of Idaho, Utah, Wyoming, Irrigation Conveyance Systems, Working Paper for the Bear River Basin Type IV Study, Idaho-Utah-Wyoming, April 1976*
- 2) *Water rights summary obtained from State Engineer Interstate Reglist – revised April 14, 1999*

- 3) *Irrigation practices based on field investigation and interview with Mr. Kevin Wilde, Water Hydrographer-Commissioner – November 30, 1999.*
- 4) *State of Utah Natural Resources, Water Budget Studies – Utah, Bear River Study Area, September 1994*

**BEAR RIVER WYOMING DIVERSIONS
MONTHLY DIVERSION RECORDS**

COVEY CANAL

(Cumulative Totals of Diversions at Smiths Fork, Bruner Creek, and Spring Creek)

| YEAR | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|
| | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft |
| 1970 | 1672 | 53.9 | 3316.4 | 3077 | 102.6 | 6103.1 | 2896 | 93.4 | 5744.1 | 3452 | 111.4 | 6846.9 | 26 | 0.9 | 51.6 |
| 1971 | 1025 | 33.1 | 2033.1 | 3682 | 122.7 | 7303.1 | 3028 | 97.7 | 6006.0 | 2650 | 85.5 | 5256.2 | 135 | 4.5 | 267.8 |
| 1972 | 1205 | 38.9 | 2390.1 | 4137 | 137.9 | 8205.6 | 3828 | 123.5 | 7592.7 | 2777 | 89.6 | 5508.1 | 543 | 18.1 | 1077.0 |
| 1973 | 710 | 22.9 | 1408.3 | 3916 | 130.5 | 7767.3 | 2914 | 94.0 | 5779.8 | 2160 | 69.7 | 4284.3 | 457 | 15.2 | 906.4 |
| 1974 | 1370 | 44.2 | 2717.4 | 6175 | 205.8 | 12247.9 | 2644 | 85.3 | 5244.3 | 2137 | 68.9 | 4238.7 | 816 | 27.2 | 1618.5 |
| 1975 | 981 | 31.6 | 1945.8 | 3117 | 103.9 | 6182.5 | 3206 | 103.4 | 6359.0 | 1761 | 56.8 | 3492.9 | 487 | 16.2 | 966.0 |
| 1976 | 1228 | 39.6 | 2435.7 | 3270 | 109.0 | 6486.0 | 5029 | 162.2 | 9974.9 | 2236 | 72.1 | 4435.0 | 420 | 14.0 | 833.1 |
| 1977 | 563 | 18.2 | 1116.7 | 520 | 17.3 | 1031.4 | 354 | 11.4 | 702.1 | 372 | 12.0 | 737.9 | 275 | 9.2 | 545.5 |
| 1978 | 1380 | 44.5 | 2737.2 | 2553 | 85.1 | 5063.8 | 2797 | 90.2 | 5547.8 | 1760 | 56.8 | 3490.9 | 640 | 21.3 | 1269.4 |
| 1979 | 1146 | 37.0 | 2273.1 | 2906 | 96.9 | 5764.0 | 2008 | 64.8 | 3982.8 | 1138 | 36.7 | 2257.2 | 382 | 12.7 | 757.7 |
| 1980 | 703 | 22.7 | 1394.4 | 2311 | 77.0 | 4583.8 | 3222 | 103.9 | 6390.7 | 1092 | 35.2 | 2166.0 | 428 | 14.3 | 848.9 |
| 1981 | 1718 | 55.4 | 3407.6 | 1795 | 59.8 | 3560.3 | 1858 | 59.9 | 3685.3 | 1190 | 38.4 | 2360.3 | 595 | 19.8 | 1180.2 |
| 1982 | 1079 | 34.8 | 2140.2 | 2520 | 84.0 | 4998.3 | 1859 | 60.0 | 3687.3 | 1711 | 55.2 | 3393.7 | 783 | 26.1 | 1553.1 |
| 1983 | 901 | 29.1 | 1787.1 | 1687 | 56.2 | 3346.1 | 2181 | 70.4 | 4326.0 | 1018 | 32.8 | 2019.2 | 931 | 31.0 | 1846.6 |
| 1984 | 1207 | 38.9 | 2394.0 | 2322 | 77.4 | 4605.6 | 2220 | 71.6 | 4403.3 | 1901 | 61.3 | 3770.6 | 472 | 15.7 | 936.2 |
| 1985 | 1361 | 43.9 | 2699.5 | 2598 | 86.6 | 5153.1 | 2263 | 73.0 | 4488.6 | 1198 | 38.6 | 2376.2 | 645 | 21.5 | 1279.3 |
| 1986 | 1358 | 43.8 | 2693.6 | 2940 | 98.0 | 5831.4 | 1900 | 61.3 | 3768.6 | 1904 | 61.4 | 3776.5 | 779 | 26.0 | 1545.1 |
| 1987 | 511 | 16.5 | 1013.6 | 1894 | 63.1 | 3756.7 | 1981 | 63.9 | 3929.3 | 974 | 31.4 | 1931.9 | 551 | 18.4 | 1092.9 |
| 1988 | 2533 | 81.7 | 5024.1 | 2291 | 76.4 | 4544.1 | 1572 | 50.7 | 3118.0 | 716 | 23.1 | 1420.2 | 394 | 13.1 | 781.5 |
| 1989 | 1977 | 63.8 | 3921.3 | 2386 | 79.5 | 4732.6 | 1620 | 52.3 | 3213.2 | 1357 | 43.8 | 2691.6 | 604 | 20.1 | 1198.0 |
| 1990 | 2129 | 68.7 | 4222.8 | 1938 | 64.6 | 3844.0 | 1094 | 35.3 | 2169.9 | 334 | 10.8 | 662.5 | 0 | 0.0 | 0.0 |
| 1991 | 2425 | 78.2 | 4809.9 | 3028 | 100.9 | 6006.0 | 2328 | 75.1 | 4617.5 | 1419 | 45.8 | 2814.5 | 270 | 9.0 | 535.5 |
| 1992 | 987 | 31.8 | 1957.7 | 1696 | 56.5 | 3364.0 | 1000 | 32.3 | 1983.5 | 95 | 3.1 | 188.4 | 0 | 0.0 | 0.0 |
| 1993 | 1218 | 39.3 | 2415.9 | 3241 | 108.0 | 6428.4 | 2045 | 66.0 | 4056.2 | 1167 | 37.6 | 2314.7 | 911 | 30.4 | 1806.9 |
| 1994 | 1347 | 43.5 | 2671.7 | 1978 | 65.9 | 3923.3 | 1011 | 32.6 | 2005.3 | 287 | 9.3 | 569.3 | 230 | 7.7 | 456.2 |
| 1995 | 2104 | 67.9 | 4173.2 | 2320 | 77.3 | 4601.7 | 1947 | 62.8 | 3861.8 | 1515 | 48.9 | 3005.0 | 1492 | 49.7 | 2959.3 |
| 1996 | 985 | 31.8 | 1953.7 | 3043 | 101.4 | 6035.7 | 2519 | 81.3 | 4996.4 | 1111 | 35.8 | 2203.6 | 840 | 28.0 | 1666.1 |
| 1997 | 1140.2 | 36.8 | 2261.6 | 4067.7 | 135.6 | 8068.2 | 2425.1 | 78.2 | 4810.1 | 744.3 | 24.0 | 1476.3 | 612.7 | 20.4 | 1215.3 |
| 1998 | 1000.2 | 32.3 | 1983.9 | 601.1 | 20.0 | 1192.3 | 3314.2 | 106.9 | 6573.6 | 949.3 | 30.6 | 1882.9 | 613.2 | 20.4 | 1216.3 |

AVERAGES

42.2 2596.5

89.7 5335.5

74.6 4586.8

45.7 2812.8

17.6 1048.6

**BEAR RIVER WYOMING DIVERSIONS
MONTHLY DIVERSION RECORDS**

COVEY CANAL @ BRUNER CREEK

| YEAR | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|
| | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft |
| 1970 | 259 | 8.4 | 513.7 | 92 | 3.1 | 182.5 | 66 | 2.1 | 130.9 | 1664 | 53.7 | 3300.5 | 0 | 0.0 | 0.0 |
| 1971 | 0 | 0.0 | 0.0 | 96 | 3.2 | 190.4 | 0 | 0.0 | 0.0 | 397 | 12.8 | 787.4 | 0 | 0.0 | 0.0 |
| 1972 | 0 | 0.0 | 0.0 | 96 | 3.2 | 190.4 | 377 | 12.2 | 747.8 | 397 | 12.8 | 787.4 | 495 | 16.5 | 981.8 |
| 1973 | 0 | 0.0 | 0.0 | 91 | 3.0 | 180.5 | 215 | 6.9 | 426.4 | 232 | 7.5 | 460.2 | 0 | 0.0 | 0.0 |
| 1974 | 230 | 7.4 | 456.2 | 3026 | 100.9 | 6002.0 | 89 | 2.9 | 176.5 | 195 | 6.3 | 386.8 | 0 | 0.0 | 0.0 |
| 1975 | 0 | 0.0 | 0.0 | 174 | 5.8 | 345.1 | 234 | 7.5 | 464.1 | 302 | 9.7 | 599.0 | 270 | 9.0 | 535.5 |
| 1976 | 200 | 6.5 | 396.7 | 187 | 6.2 | 370.9 | 1789 | 57.7 | 3548.4 | 270 | 8.7 | 535.5 | 240 | 8.0 | 476.0 |
| 1977 | 240 | 7.7 | 476.0 | 224 | 7.5 | 444.3 | 213 | 6.9 | 422.5 | 217 | 7.0 | 430.4 | 0 | 0.0 | 0.0 |
| 1978 | 402 | 13.0 | 797.4 | 232 | 7.7 | 460.2 | 285 | 9.2 | 565.3 | 273 | 8.8 | 541.5 | 270 | 9.0 | 535.5 |
| 1979 | 283 | 9.1 | 561.3 | 265 | 8.8 | 525.6 | 166 | 5.4 | 329.3 | 151 | 4.9 | 299.5 | 0 | 0.0 | 0.0 |
| 1980 | 425 | 13.7 | 843.0 | 232 | 7.7 | 460.2 | 212 | 6.8 | 420.5 | 219 | 7.1 | 434.4 | 244 | 8.1 | 484.0 |
| 1981 | 280 | 9.0 | 555.4 | 249 | 8.3 | 493.9 | 227 | 7.3 | 450.2 | 214 | 6.9 | 424.5 | 205 | 6.8 | 406.6 |
| 1982 | 517 | 16.7 | 1025.5 | 166 | 5.5 | 329.3 | 5 | 0.2 | 9.9 | 311 | 10.0 | 616.9 | 377 | 12.6 | 747.8 |
| 1983 | 679 | 21.9 | 1346.8 | 13 | 0.4 | 25.8 | 584 | 18.8 | 1158.3 | 18 | 0.6 | 35.7 | 704 | 23.5 | 1396.4 |
| 1984 | 894 | 28.8 | 1773.2 | 651 | 21.7 | 1291.2 | 532 | 17.2 | 1055.2 | 444 | 14.3 | 880.7 | 0 | 0.0 | 0.0 |
| 1985 | 506 | 16.3 | 1003.6 | 93 | 3.1 | 184.5 | 248 | 8.0 | 491.9 | 259 | 8.4 | 513.7 | 272 | 9.1 | 539.5 |
| 1986 | 899 | 29.0 | 1783.1 | 797 | 26.6 | 1580.8 | 684 | 22.1 | 1356.7 | 558 | 18.0 | 1106.8 | 566 | 18.9 | 1122.6 |
| 1987 | 321 | 10.4 | 636.7 | 181 | 6.0 | 359.0 | 197 | 6.4 | 390.7 | 223 | 7.2 | 442.3 | 223 | 7.4 | 442.3 |
| 1988 | 453 | 14.6 | 898.5 | 176 | 5.9 | 349.1 | 124 | 4.0 | 246.0 | 152 | 4.9 | 301.5 | 154 | 5.1 | 305.5 |
| 1989 | 86 | 2.8 | 170.6 | 90 | 3.0 | 178.5 | 93 | 3.0 | 184.5 | 93 | 3.0 | 184.5 | 114 | 3.8 | 226.1 |
| 1990 | 44 | 1.4 | 87.3 | 30 | 1.0 | 59.5 | 31 | 1.0 | 61.5 | 21 | 0.7 | 41.7 | 0 | 0.0 | 0.0 |
| 1991 | 126 | 4.1 | 249.9 | 160 | 5.3 | 317.4 | 153 | 4.9 | 303.5 | 101 | 3.3 | 200.3 | 0 | 0.0 | 0.0 |
| 1992 | 183 | 5.9 | 363.0 | 156 | 5.2 | 309.4 | 182 | 5.9 | 361.0 | 14 | 0.5 | 27.8 | 0 | 0.0 | 0.0 |
| 1993 | 345 | 11.1 | 684.3 | 160 | 5.3 | 317.4 | 190 | 6.1 | 376.9 | 214 | 6.9 | 424.5 | 247 | 8.2 | 489.9 |
| 1994 | 204 | 6.6 | 404.6 | 127 | 4.2 | 251.9 | 128 | 4.1 | 253.9 | 116 | 3.7 | 230.1 | 111 | 3.7 | 220.2 |
| 1995 | 323 | 10.4 | 640.7 | 266 | 8.9 | 527.6 | 222 | 7.2 | 440.3 | 256 | 8.3 | 507.8 | 236 | 7.9 | 468.1 |
| 1996 | 345 | 11.1 | 684.3 | 365 | 12.2 | 724.0 | 240 | 7.7 | 476.0 | 196 | 6.3 | 388.8 | 240 | 8.0 | 476.0 |
| 1997 | 496.1 | 16.0 | 984.0 | 361.3 | 12.0 | 716.6 | 322.4 | 10.4 | 639.5 | 247 | 8.0 | 489.9 | 384.3 | 12.8 | 762.2 |
| 1998 | 400.3 | 12.9 | 794.0 | 363.2 | 12.1 | 720.4 | 316.1 | 10.2 | 627.0 | 286.7 | 9.2 | 568.7 | 283.2 | 9.4 | 561.7 |

AVERAGES

10.2 625.2

10.5 623.7

9.0 555.7

8.9 549.9

6.5 385.4

**BEAR RIVER WYOMING DIVERSIONS
MONTHLY DIVERSION RECORDS**

**COVEY CANAL at HEAD
(on Smith's Fork)**

| YEAR | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|
| | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft |
| 1970 | 1226 | 39.5 | 2431.7 | 2843 | 94.8 | 5639.0 | 2723 | 87.8 | 5401.0 | 1664 | 53.7 | 3300.5 | 0 | 0.0 | 0.0 |
| 1971 | 1025 | 33.1 | 2033.1 | 3586 | 119.5 | 7112.7 | 2874 | 92.7 | 5700.5 | 2128 | 68.6 | 4220.8 | 75 | 2.5 | 148.8 |
| 1972 | 1205 | 38.9 | 2390.1 | 3917 | 130.6 | 7769.3 | 3296 | 106.3 | 6537.5 | 2240 | 72.3 | 4443.0 | 48 | 1.6 | 95.2 |
| 1973 | 710 | 22.9 | 1408.3 | 3751 | 125.0 | 7440.0 | 2606 | 84.1 | 5168.9 | 1835 | 59.2 | 3639.7 | 457 | 15.2 | 906.4 |
| 1974 | 1016 | 32.8 | 2015.2 | 3026 | 100.9 | 6002.0 | 2415 | 77.9 | 4790.1 | 1796 | 57.9 | 3562.3 | 595 | 19.8 | 1180.2 |
| 1975 | 981 | 31.6 | 1945.8 | 2766 | 92.2 | 5486.3 | 2785 | 89.8 | 5524.0 | 1270 | 41.0 | 2519.0 | 124 | 4.1 | 246.0 |
| 1976 | 916 | 29.5 | 1816.9 | 2933 | 97.8 | 5817.5 | 3060 | 98.7 | 6069.4 | 1789 | 57.7 | 3548.4 | 30 | 1.0 | 59.5 |
| 1977 | 146 | 4.7 | 289.6 | 136 | 4.5 | 269.8 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 170 | 5.7 | 337.2 |
| 1978 | 849 | 27.4 | 1684.0 | 2186 | 72.9 | 4335.9 | 2412 | 77.8 | 4784.1 | 1332 | 43.0 | 2642.0 | 220 | 7.3 | 436.4 |
| 1979 | 722 | 23.3 | 1432.1 | 2492 | 83.1 | 4942.8 | 1752 | 56.5 | 3475.0 | 911 | 29.4 | 1806.9 | 382 | 12.7 | 757.7 |
| 1980 | 78 | 2.5 | 154.7 | 1913 | 63.8 | 3794.4 | 2849 | 91.9 | 5650.9 | 703 | 22.7 | 1394.4 | 30 | 1.0 | 59.5 |
| 1981 | 1252 | 40.4 | 2483.3 | 1414 | 47.1 | 2804.6 | 1500 | 48.4 | 2975.2 | 828 | 26.7 | 1642.3 | 258 | 8.6 | 511.7 |
| 1982 | 388 | 12.5 | 769.6 | 2189 | 73.0 | 4341.8 | 1701 | 54.9 | 3373.9 | 1257 | 40.5 | 2493.2 | 237 | 7.9 | 470.1 |
| 1983 | 42 | 1.4 | 83.3 | 1515 | 50.5 | 3005.0 | 1439 | 46.4 | 2854.2 | 798 | 25.7 | 1582.8 | 30 | 1.0 | 59.5 |
| 1984 | 135 | 4.4 | 267.8 | 1499 | 50.0 | 2973.2 | 1526 | 49.2 | 3026.8 | 1287 | 41.5 | 2552.7 | 301 | 10.0 | 597.0 |
| 1985 | 743 | 24.0 | 1473.7 | 2364 | 78.8 | 4688.9 | 1874 | 60.5 | 3717.0 | 885 | 28.5 | 1755.4 | 360 | 12.0 | 714.0 |
| 1986 | 351 | 11.3 | 696.2 | 1970 | 65.7 | 3907.4 | 1052 | 33.9 | 2086.6 | 1189 | 38.4 | 2358.3 | 64 | 2.1 | 126.9 |
| 1987 | 0 | 0.0 | 0.0 | 1591 | 53.0 | 3155.7 | 1676 | 54.1 | 3324.3 | 617 | 19.9 | 1223.8 | 208 | 6.9 | 412.6 |
| 1988 | 1953 | 63.0 | 3873.7 | 1980 | 66.0 | 3927.3 | 1327 | 42.8 | 2632.1 | 471 | 15.2 | 934.2 | 150 | 5.0 | 297.5 |
| 1989 | 1773 | 57.2 | 3516.7 | 2176 | 72.5 | 4316.0 | 1413 | 45.6 | 2802.6 | 1171 | 37.8 | 2322.6 | 400 | 13.3 | 793.4 |
| 1990 | 1904 | 61.4 | 3776.5 | 1747 | 58.2 | 3465.1 | 920 | 29.7 | 1824.8 | 229 | 7.4 | 454.2 | 0 | 0.0 | 0.0 |
| 1991 | 2154 | 69.5 | 4272.4 | 2701 | 90.0 | 5357.4 | 2002 | 64.6 | 3970.9 | 1190 | 38.4 | 2360.3 | 270 | 9.0 | 535.5 |
| 1992 | 611 | 19.7 | 1211.9 | 1374 | 45.8 | 2725.3 | 665 | 21.5 | 1319.0 | 62 | 2.0 | 123.0 | 0 | 0.0 | 0.0 |
| 1993 | 615 | 19.8 | 1219.8 | 2944 | 98.1 | 5839.3 | 1745 | 56.3 | 3461.2 | 795 | 25.6 | 1576.9 | 467 | 15.6 | 926.3 |
| 1994 | 986 | 31.8 | 1955.7 | 1726 | 57.5 | 3423.5 | 772 | 24.9 | 1531.2 | 89 | 2.9 | 176.5 | 8 | 0.3 | 15.9 |
| 1995 | 1541 | 49.7 | 3056.5 | 1929 | 64.3 | 3826.1 | 1606 | 51.8 | 3185.5 | 1135 | 36.6 | 2251.2 | 1145 | 38.2 | 2271.1 |
| 1996 | 401 | 12.9 | 795.4 | 2539 | 84.6 | 5036.0 | 2166 | 69.9 | 4296.2 | 818 | 26.4 | 1622.5 | 488 | 16.3 | 967.9 |
| 1997 | 470.6 | 15.2 | 933.4 | 3547.7 | 118.3 | 7036.8 | 1959.2 | 63.2 | 3886.0 | 343.3 | 11.1 | 680.9 | 74.9 | 2.5 | 148.6 |
| 1998 | 384 | 12.4 | 761.7 | 62.1 | 2.1 | 123.2 | 2857.6 | 92.2 | 5668.0 | 549.7 | 17.7 | 1090.3 | 204.6 | 6.8 | 405.8 |

AVERAGES

27.3 1681.0

74.5 4433.2

61.1 3759.9

32.7 2009.6

7.8 464.9

**BEAR RIVER WYOMING DIVERSIONS
MONTHLY DIVERSION RECORDS**

COVEY CANAL @ SPRING CREEK

| YEAR | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|------------------------------|-------------|---------------------|
| | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft | Total of Daily Ave for Month | Average CFS | Monthly Total Ac-Ft |
| 1970 | 187 | 6.0 | 370.9 | 142 | 4.7 | 281.7 | 107 | 3.5 | 212.2 | 124 | 4.0 | 246.0 | 26 | 0.9 | 51.6 |
| 1971 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 154 | 5.0 | 305.5 | 125 | 4.0 | 247.9 | 60 | 2.0 | 119.0 |
| 1972 | 0 | 0.0 | 0.0 | 124 | 4.1 | 246.0 | 155 | 5.0 | 307.4 | 140 | 4.5 | 277.7 | 0 | 0.0 | 0.0 |
| 1973 | 0 | 0.0 | 0.0 | 74 | 2.5 | 146.8 | 93 | 3.0 | 184.5 | 93 | 3.0 | 184.5 | 0 | 0.0 | 0.0 |
| 1974 | 124 | 4.0 | 246.0 | 123 | 4.1 | 244.0 | 140 | 4.5 | 277.7 | 146 | 4.7 | 289.6 | 221 | 7.4 | 438.3 |
| 1975 | 0 | 0.0 | 0.0 | 177 | 5.9 | 351.1 | 187 | 6.0 | 370.9 | 189 | 6.1 | 374.9 | 93 | 3.1 | 184.5 |
| 1976 | 112 | 3.6 | 222.1 | 150 | 5.0 | 297.5 | 180 | 5.8 | 357.0 | 177 | 5.7 | 351.1 | 150 | 5.0 | 297.5 |
| 1977 | 177 | 5.7 | 351.1 | 160 | 5.3 | 317.4 | 141 | 4.5 | 279.7 | 155 | 5.0 | 307.4 | 105 | 3.5 | 208.3 |
| 1978 | 129 | 4.2 | 255.9 | 135 | 4.5 | 267.8 | 100 | 3.2 | 198.3 | 155 | 5.0 | 307.4 | 150 | 5.0 | 297.5 |
| 1979 | 141 | 4.5 | 279.7 | 149 | 5.0 | 295.5 | 90 | 2.9 | 178.5 | 76 | 2.5 | 150.7 | 0 | 0.0 | 0.0 |
| 1980 | 200 | 6.5 | 396.7 | 166 | 5.5 | 329.3 | 161 | 5.2 | 319.3 | 170 | 5.5 | 337.2 | 154 | 5.1 | 305.5 |
| 1981 | 186 | 6.0 | 368.9 | 132 | 4.4 | 261.8 | 131 | 4.2 | 259.8 | 148 | 4.8 | 293.6 | 132 | 4.4 | 261.8 |
| 1982 | 174 | 5.6 | 345.1 | 165 | 5.5 | 327.3 | 153 | 4.9 | 303.5 | 143 | 4.6 | 283.6 | 169 | 5.6 | 335.2 |
| 1983 | 180 | 5.8 | 357.0 | 159 | 5.3 | 315.4 | 158 | 5.1 | 313.4 | 202 | 6.5 | 400.7 | 197 | 6.6 | 390.7 |
| 1984 | 178 | 5.7 | 353.1 | 172 | 5.7 | 341.2 | 162 | 5.2 | 321.3 | 170 | 5.5 | 337.2 | 171 | 5.7 | 339.2 |
| 1985 | 112 | 3.6 | 222.1 | 141 | 4.7 | 279.7 | 141 | 4.5 | 279.7 | 54 | 1.7 | 107.1 | 13 | 0.4 | 25.8 |
| 1986 | 108 | 3.5 | 214.2 | 173 | 5.8 | 343.1 | 164 | 5.3 | 325.3 | 157 | 5.1 | 311.4 | 149 | 5.0 | 295.5 |
| 1987 | 190 | 6.1 | 376.9 | 122 | 4.1 | 242.0 | 108 | 3.5 | 214.2 | 134 | 4.3 | 265.8 | 120 | 4.0 | 238.0 |
| 1988 | 127 | 4.1 | 251.9 | 135 | 4.5 | 267.8 | 121 | 3.9 | 240.0 | 93 | 3.0 | 184.5 | 90 | 3.0 | 178.5 |
| 1989 | 118 | 3.8 | 234.0 | 120 | 4.0 | 238.0 | 114 | 3.7 | 226.1 | 93 | 3.0 | 184.5 | 90 | 3.0 | 178.5 |
| 1990 | 181 | 5.8 | 359.0 | 161 | 5.4 | 319.3 | 143 | 4.6 | 283.6 | 84 | 2.7 | 166.6 | 0 | 0.0 | 0.0 |
| 1991 | 145 | 4.7 | 287.6 | 167 | 5.6 | 331.2 | 173 | 5.6 | 343.1 | 128 | 4.1 | 253.9 | 0 | 0.0 | 0.0 |
| 1992 | 193 | 6.2 | 382.8 | 166 | 5.5 | 329.3 | 153 | 4.9 | 303.5 | 19 | 0.6 | 37.7 | 0 | 0.0 | 0.0 |
| 1993 | 258 | 8.3 | 511.7 | 137 | 4.6 | 271.7 | 110 | 3.5 | 218.2 | 158 | 5.1 | 313.4 | 197 | 6.6 | 390.7 |
| 1994 | 157 | 5.1 | 311.4 | 125 | 4.2 | 247.9 | 111 | 3.6 | 220.2 | 82 | 2.6 | 162.6 | 111 | 3.7 | 220.2 |
| 1995 | 240 | 7.7 | 476.0 | 125 | 4.2 | 247.9 | 119 | 3.8 | 236.0 | 124 | 4.0 | 246.0 | 111 | 3.7 | 220.2 |
| 1996 | 239 | 7.7 | 474.0 | 139 | 4.6 | 275.7 | 113 | 3.6 | 224.1 | 97 | 3.1 | 192.4 | 112 | 3.7 | 222.1 |
| 1997 | 173.5 | 5.6 | 344.1 | 158.7 | 5.3 | 314.8 | 143.5 | 4.6 | 284.6 | 154 | 5.0 | 305.5 | 153.5 | 5.1 | 304.5 |
| 1998 | 215.9 | 7.0 | 428.2 | 175.8 | 5.9 | 348.7 | 140.5 | 4.5 | 278.7 | 112.9 | 3.6 | 223.9 | 125.4 | 4.2 | 248.7 |

AVERAGES **4.7** **290.4** **4.7** **278.6** **4.4** **271.3** **4.1** **253.3** **3.3** **198.3**