LITTLE GOOSE CREEK

BURN CLEUCH DITCH DIVERSION
COLORADO COLONY DITCH DIVERSION
GERDEL DITCH DIVERSION
LAST CHANCE DITCH DIVERSION
PERALTA DITCH DIVERSION & MOUNTAIN SUPPLY (PERALTA) DIVERSION DITCH

LITTLE GOOSE CREEK DRAINAGE
INTRODUCTION

BACKGROUND

Little Goose Creek flows out of the east slope of the Bighorn Mountains, sandwiched between Piney Creek drainage and the East Fork of Big Goose Creek to the north. In Sheridan, it joins Big Goose Creek, which runs north to join the Tongue east of Ranchester. Little Goose Creek transfers much Big Goose Creek stored water in via transbasin diversion ditches like the Peralta, Cross Creek, and Park Diversion ditches though it has some storage in Willits and Fordyce Tepee No. 1 reservoirs.

CHARACTERISTICS

State Engineer's Office water commissioners estimate the instream losses in Little Goose Creek to be a maximum of 10 percent by its confluence with Big Goose Creek.

Available reservoir water in Little Goose Creek drainage helps to mitigate water shortages.

In addition, irrigators today tend toward more conservation of the water they can use, which often materializes as new sprinkler irrigation. This has the effect of reducing return flows to the creek. Partially as a result, Little Goose Creek typically goes into regulation every year.

In years of ample water, water commissioners/hydrographers divert 15-20 cfs into Little Goose Creek drainage from the Big Goose Creek drainage via the Peralta and Park Diversion ditches to enhance Little Goose flows.

USAGE

Little Goose Creek's diversions are used primarily for agricultural irrigation but also supply stock and industrial demands.

Regulation

Water commissioners estimate that regulation is imposed on Little Goose drainage diversions with the following timing:

Wet Year	*Average Year*	*Dry Year*
End of July	Mid-July	End of June

Though these times provide the general timing of the imposition of regulation, water commissioners begin regulation when Little Goose Creek's stream flow drops below 60 cfs at the mouth of the canyon.

Agriculture

Growers in Little Goose Creek drainage tend to plant acreage in the following pattern:

- 45 percent alfalfa
- 30 percent grass hay
- 10 percent grains
- 15 percent corn

The grains (usually barley or oats) are used to rejuvenate the soil after approximately five years of alfalfa/grass growth. Corn is used as a silage crop.

Irrigation Practices

Type of irrigation	Percentage of irrigated land
Ditch-flood	65
Gated pipe	15
Sprinkler	20

Note: Much of the flow cited in the following memoranda will depend in large part upon storage water imported from the Big Goose Creek drainage.

The typical irrigation season runs from April 15-May 1 (depending on whether the spring runoff is delayed by colder weather) to early/mid October (depending on when the first snows fall and the ground freezes). Post-season irrigation is not typically practiced because reservoirs that would provide that water are shut off on the first of October.

Double appropriation

Irrigation water rights with priority dates of March 1, 1945 or earlier are entitled to an additional 1cfs per 70 acres under Wyoming's surplus water statutes. Whenever the supply in a stream exceeds the amount required to satisfy all existing appropriations established prior to March 1, 1985, the stream is said to be in an excess flow condition and water right holders with priorities between March 2, 1945 and March 1, 1985 may use an additional 1 cfs for each 70 acres irrigated.

On Little Goose Creek, this practice is limited primarily by the condition of ditches. Many of the ditches are not capable of carrying all of the water an irrigator could use.

% of appropriation	% of ditches in drainage capable of flow
200	20
150	60
100-150	90
0-100	90

Permitted Uses

Permits granted for water appropriation are granted for specific uses. The following pages contain tables of permits and their associated uses. The following table provides a key to those uses:

Code	Use
Chem	Chemical
Com	Commercial
Cul	Culinary
D	Domestic
Drl	Drilling
Eng	Steam Engines
Fire	Fire Protection
Fish	Fish Propogation
F.C.	Flood Control
I	Irrigation
Ind	Industrial
I.F.	Instream Flow
Mech	Mechanical
Mfg	Manufacturing
Mil	Milling

Code	Use
Min	Mining
Misc	Miscellaneous
Mun	Municipal
Oil	Oil Refining or Production
P.C.	Pollution Control
Power	Power Development
R.R.	Railroad
Rec	Recreational
Ref	Refining
Res. Supply	Supply Facility for a Reservoir
S	Stock
T	Transportation

WATER RIGHTS

Two water rights summary tables are provided for each diversion serving irrigation referenced here. The first, included in the body of the diversion synopsis, refers to the rights on record with the State Engineer's Office and is derived from that office's *Tabulation of Adjudicated Surface Water Rights of the State of Wyoming, Water Division Number Two* (Oct. 1999).

Because this rights summary is pulled directly from the SEO *Tab,* the rights cited follow the SEO's priority order:

Hierarchy	Format of right	Example
1	Day, Month, Year	05-15-1884
2	Month and Year	05-00-1884
3	Specified Season and Year	Spring 1884
4	Year Only	1884
5	Before Year	Before 1884

Board orders or court orders may also establish a specific priority.

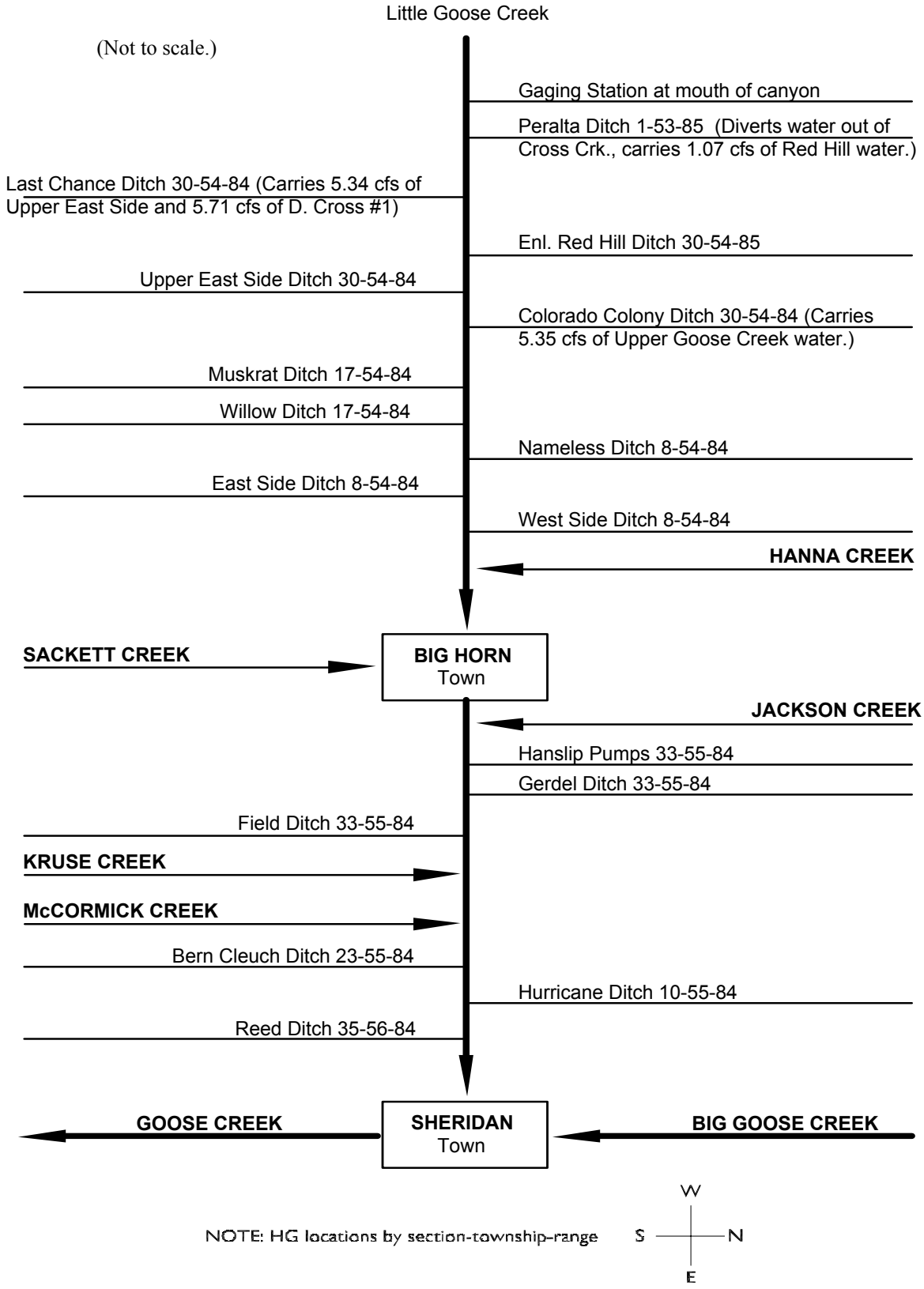
Irrigated Lands Water Rights Database

The second table, which follows the diversion synopsis, is taken from the irrigated lands water rights database developed for the basin plan. It can be used as a reference with the following caveats: It only lists water rights associated with the irrigated lands polygons mapped by HKM. The table does not include nonirrigation rights devoted to reservoir supply, municipal, fish propagation, etc. The rights on this table are associated only with those irrigated lands identified through the course of this study, both actively irrigated and currently idle.

Column Heading Key

PerNo	Permit Number	"Terr" denotes a territorial right.
PerSfx	Permit Suffix	D = direct flow E = enlargement R = reservoir
Facility Name		Parentheses denote the former means of conveyance for the water right.
Unit	Flow or volume	CFS = cubic feet per second AF = acre-feet GPM = gallons per minute
SupTyp	Supply Type	OS = original supply SS = supplement supply, for lands having an original supply from another source Sec = secondary supply, for water stored in a reservoir
Status	Status of adjudication	Adj = adjudicated Una = unadjudicated
Source	Source water	Parentheses denote the permit number of the related storage right.

Schematic for Little Goose stream and diversions:



KEY DIVERSIONS

Diversion: **BURN CLEUCH DITCH DIVERSION**

Date: 29 Aug. 2000

Note: The Burn Cleuch Ditch has returned no flows to Big Goose Creek in recent years, primarily due to construction around Sheridan.

Burn Cleuch Ditch Headgate

Diversion Description: Headgate consists of a single 5.9 x 5.6-foot rectangular wooden gate in concrete slides operated with a Waterman-type screw, mounted in a concrete headwall.

Diversion Location: The Burn Cleuch Ditch diversion is located on the main stem of Little Goose Creek between the confluences of Little Goose with McCormick and Big Goose Creek in Sheridan.

Headgate:

Lat.	Long.
N 44° 43' 40.6"	W 106° 56' 37.7"

Flume:

Lat.	Long.
N 44° 43' 43.8"	W 106° 56' 43.7"

Conveyance Description: Open channel canal, approximately 5 mi. long.

Direct Flow Water Rights: The summary of direct flow rights follows:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative (cfs)
Terr.	10-29-1881	D,I,S	31	0.48	0.48
Terr.	10-29-1881	D,I,S	48	0.69	1.17
Terr.	10-29-1881	D,I,S	105	1.50	2.67
Terr.	10-29-1881	D,I,S	139	2.02	4.69
Terr.	10-29-1881	D,I,S	609	8.70	13.39
6731E	8-12-77	I	37.41	0.53	13.92

Associated Storage Rights: None.

Irrigation Practices: See Little Goose summary.

Return Flows: Estimated percentage of total diversion developing into return flows:

Destination	Wet Yr.	Avg Yr.	Dry Yr.
Big Goose Creek	0	0	0

Losses: 15 percent by the end of the ditch

References: Bill Knapp, water commissioner, State Engineer's Office, interview, 29 Aug. 2000

Irrigated Lands Water Rights Database

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
Terr	D	Burn Cleuch (5 pump points)	Oct. 29, 1881	932.8	13.39	CFS	OS	Adj	Little Goose Creek
6731	E	Whitney Enlargement Burn Cleuch	Aug. 12, 1977	37.41	0.53	CFS	OS	Adj	Little Goose Creek

Name	Burn Cleuch Ditch Diversion
Source	Little Goose Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971													
1972													
1973													
1974							0.00	0.00	433.82	647.84	643.02	0.00	1724.68
1975													
1976													
1977													
1978													
1979													
1980													
1981							0.00	541.00	278.00	543.00	393.00	291.00	2046.00
1982							0.00	227.83	519.15	456.92	592.87	96.78	1893.55
1983							0.00	102.66	447.73	537.58	544.17	260.25	1892.39
1984							0.00	101.31	578.60	745.77	828.39	307.62	2561.69
1985							0.00	535.53	522.09	817.10	567.22	164.34	2606.28
1986							0.00	491.58	736.73	460.48	610.99	164.60	2464.38
1987													
1988							0.00	267.20	639.81	582.85	96.65	0.00	1586.51
1989							0.00	190.65	551.70	562.02	556.11	252.79	2113.27
1990							0.00				561.05	0.00	
1991							0.00	0.00	305.43	571.46	509.02	146.80	1532.71
1992							0.00				557.81	331.87	
1993							0.00	100.87	308.02	409.27	425.42	290.40	1533.98
1994							0.00	279.09	531.78	516.46	527.91	305.53	2160.77
1995							0.00	10.18	373.75	370.89	285.70	234.61	1275.13
1996							0.65	235.46	673.18	564.08	635.43	569.40	2678.20
1997							0.00	176.28	269.17	406.59	373.54	108.79	1334.37
1998							0.00	482.82	479.32	615.46	481.43	144.28	2203.31
1999							0.00	0.00	248.36	563.84	539.53	269.75	1621.48
Mean							0.03	220.14	464.51	551.27	512.07	207.31	1954.63
Max							0.65	541.00	736.73	817.10	828.39	569.40	2678.20
Min							0.00	0.00	248.36	370.89	96.65	0.00	1275.13

Notes:
1. Monthly data is derived from spot measurements in the Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement
3. Monthly data for 1981 is derived from published AF values in the Hydrographers Annual Reports.

Name	Burn Cleuch Ditch Diversion		
Source	Little Goose Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971			
1972			
1973			
1974	12-Jun	31-Aug	0
1975			
1976			
1977			
1978			
1979			
1980			
1981	1-May	30-Sep	0
1982	15-May	5-Sep	13
1983	28-May	20-Sep	17
1984	24-May	11-Sep	24
1985	7-May	9-Sep	20
1986	16-May	8-Sep	35
1987			
1988	18-May	6-Aug	18
1989	23-May	14-Sep	7
1990	15-May	30-Aug	57
1991	6-Jun	12-Sep	9
1992	6-May	30-Sep	69
1993	11-May	28-Sep	23
1994	18-May	20-Sep	7
1995	31-May	15-Sep	16
1996	29-Apr	24-Sep	30
1997	15-May	11-Sep	27
1998	8-May	8-Sep	25
1999	18-Jun	17-Sep	25
Avg.	19-May	12-Sep	22
Earliest	29-Apr	6-Aug	0
Latest	18-Jun	30-Sep	69

Notes: 1. Data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980.

KEY DIVERSIONS

Diversion: **COLORADO COLONY DITCH DIVERSION**

Date: 29 Aug. 2000


Colorado Colony Headgate

Note: The Colorado Colony Ditch will entirely divert Little Goose Creek in normal years. More senior rights downstream are normally able to satisfy their appropriations with return flows to Little Goose Creek. In dry years, conservation and sprinkler usage reduce the return flows, requiring water commissioners to allow flow past the Colorado Colony headgate.

Diversion Description: Headgate consists of four, 2.8 x 2-foot rectangular steel gates in steel slides operated with Waterman-type screws, mounted in a concrete-and-rock headwall. The headgate is adjacent to a similarly constructed bypass gate used to control head on the main gates. All gates appear to be in good condition.

Diversion Location: The Colorado Colony Ditch diversion is located on the main stem of Little Goose Creek.

Headgate:

Lat.	Long.
N 44° 37' 41.8"	W 107° 1' 44.7"

Flume:

Lat.	Long.
N 44° 36' 16.1"	W 107° 2' 20.5"

Conveyance Description: Open channel canal, approximately 15 mi. long.

Direct Flow Water Rights: The summary of direct flow rights follows:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative (cfs)
Terr.	07-04-1883	I	5869	83.86	83.86
305E	01-14-1898	I	35	0.50	84.36
382E	07-01-1898	I	35	0.50	84.86
3145E	03-08-1915	D,I,S	815.1	11.64	96.50

Note: Colorado Colony Ditch also carries 5.35 cfs of #7 Upper Goose Creek Ditch water.

Associated Storage Rights: Big Horn Reservoir is attached to lands below Colorado Colony. Irrigators on the Colorado Colony Ditch also use Park Reservoir and Cross Creek Reservoir water.

Irrigation Practices: See Little Goose summary.

Return Flows: Estimated percentage of total diversion developing into return flows:

Destination	Wet Yr.	Avg Yr.	Dry Yr.
Big Goose	40	30	20

Losses: Approximately 25 percent by the end of the ditch

References: Bill Knapp, water commissioner, State Engineer's Office, interview, 29 Aug. 2000

Irrigated Lands Water Rights Database

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
Terr	D	Upper Goose Creek (Red Hill Extension, Colorado Colony)	Nov. 15, 1881	375	5.35	CFS	OS	Adj	Little Goose Creek
Terr	D	Colorado Colony	July 4, 1883	5868.74	83.86	CFS	OS	Adj	Little Goose Creek
Terr	D	Big Goose & Beaver (Peralta, Colorado Colony)	Aug. 29, 1885	6430	92.01	CFS	OS	Adj	East Fork Big Goose Creek
Terr	D	Peralta (Colorado Colony, Red Hill, Big Goose & Beaver)	Nov. 1, 1885	3971.5	56.7	CFS	OS	Adj	Cross Creek
305	E	Enl. Colorado Colony	Jan. 14, 1898	35	0.5	CFS	OS	Adj	Little Goose Creek
445	E	Enl. Colorado Colony	June 15, 1898	6317.8	0		SS	Adj	Cross Creek
4186	E	Enl. Colorado Colony	July 10, 1908	5317.24	0		Sec	Adj	Cross Creek (1352R)
3145	E	Enl. Colorado Colony	March 8, 1915	815.1	11.64	CFS	OS	Adj	Little Goose Creek
3145	E	Enl. Colorado Colony	March 8, 1915	728	0		SS	Adj	Little Goose Creek
4298	E	Enl. Peralta (Colorado Colony)	Nov. 7, 1921	2049	0		SS	Adj	Little Goose Creek
5335	E	Third Enl. Red Hill (Colorado Colony)	Dec. 22, 1942	237	3.36	CFS	OS	Adj	Little Goose Creek
5978	E	Enl. Peralta (Colorado Colony)	April 14, 1952	844.9	0		SS	Adj	Cross Creek
5978	E	Enl. Peralta (Colorado Colony)	April 14, 1952	456.8	6.52	CFS	OS	Adj	Cross Creek
5979	E	Enl. Peralta (Colorado Colony)	April 14, 1952	693.2	0		SS	Adj	Little Goose Creek
5979	E	Enl. Peralta (Colorado Colony)	April 14, 1952	25.72	0.37	CFS	OS	Adj	Little Goose Creek

Name	Colorado Colony Ditch Diversion
Source	Little Goose Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971	0.00					0.00	0.00	726.94	3811.04	3657.32	4174.21	1479.27	13848.78
1972	0.00					0.00	0.00	1350.74	5536.66	3415.34	3532.36	2602.91	16438.01
1973	161.85					0.00	0.00	861.62	5345.85	3423.07	4159.53	1653.22	15605.14
1974	0.00					0.00	0.00	1993.39	5591.60	4083.77	3893.95	1884.89	17447.60
1975	0.00					0.00	0.00	37.79	2343.37	3784.86	3992.53	2812.56	12971.11
1976	0.00					0.00	615.87	2535.67	5070.74	4124.03	3807.87	2487.27	18641.45
1977	0.00					0.00	0.00	3295.93	3625.39	2567.80	3055.73	1543.34	14088.19
1978	0.00					0.00	0.00	0.00	0.00	3583.93	2696.53	2448.20	8728.66
1979													
1980	0.00					0.00	586.00	3896.00	3244.00	2906.00	2081.00	1226.00	13939.00
1981	0.00					274.00	843.00	2883.00	2112.00	2312.00	1454.00	1572.00	11450.00
1982	0.00					0.00	0.00	2590.00	2620.00	3530.00	3900.00	2380.00	15020.00
1983	0.00					0.00	0.00	580.00	4500.00	4050.00	2970.00	1700.00	13800.00
1984	0.00					0.00	0.00	0.00	2517.84	3796.58	3183.56	1838.23	11336.21
1985	0.00					0.00	0.00	3005.08	3420.78	2989.07	1697.70	822.00	11934.63
1986	0.00					0.00	17.93	3184.59	4084.40	3351.50	3256.33	1295.17	15189.92
1987	0.00					0.00	0.00	4351.00	2954.00	2510.00	2573.00	1810.00	14198.00
1988	0.00					0.00	0.00	2050.00	4090.00	3274.00	1970.00	1005.00	12389.00
1989	0.00					0.00	696.50	3685.80	3236.20	2767.60	2891.70	1626.60	14904.40
1990	0.00					0.00	0.00	865.50	3195.30	3567.60	3064.70	2589.20	13282.30
1991	0.00					0.00	0.00	964.70	2924.80	3157.80	2710.60	1414.60	11172.50
1992	0.00					0.00	785.50	3525.90	2739.70	2373.30	3330.90	2744.20	15499.50
1993	0.00					0.00	0.00	1608.20	2864.60	2821.90	3353.80	3169.50	13818.00
1994	0.00					0.00	0.00	2053.90	3284.30	2908.70	2431.40	1126.50	11804.80
1995	0.00					0.00	96.10	389.90	2149.00	2576.70	3788.50	2554.40	11554.60
1996	0.00					0.00	0.00	781.40	3574.50	3331.50	3309.60	2268.50	13265.50
1997	0.00					0.00	0.00	1013.80	3438.00	3296.20	3005.40	3250.60	14004.00
1998	0.00					0.00	0.00	3540.30	4019.90	3669.50	3444.10	2478.80	17152.60
1999	0.00					0.00	102.00	393.00	2455.00	3443.00	3322.00	1776.00	11491.00
Mean	5.78					9.79	133.68	1863.01	3383.89	3259.75	3108.96	1984.25	13749.10
Max	161.85					274.00	843.00	4351.00	5591.60	4124.03	4174.21	3250.60	18641.45
Min	0.00					0.00	0.00	0.00	0.00	2312.00	1454.00	822.00	8728.66

Notes: 1. Monthly data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement

Name	Colorado Colony Ditch Diversion		
Source	Little Goose Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971	21-May	30-Sep	0
1972	11-May	2-Oct	0
1973	22-May	27-Sep	0
1974	8-May	30-Sep	0
1975	27-May	30-Sep	0
1976	9-Apr	30-Sep	0
1977	1-May	30-Sep	1
1978	1-Jul	30-Sep	0
1979			
1980	22-Apr	30-Sep	0
1981	16-Mar	30-Sep	0
1982	1-May	30-Sep	0
1983	23-May	30-Sep	0
1984	4-Jun	30-Sep	0
1985	1-May	30-Sep	0
1986	29-Apr	20-Sep	0
1987	1-May	30-Sep	0
1988	3-May	30-Sep	0
1989	20-Apr	30-Sep	0
1990	23-May	30-Sep	0
1991	3-May	30-Sep	0
1992	15-Apr	30-Sep	0
1993	1-May	30-Sep	0
1994	12-May	30-Sep	0
1995	26-Apr	30-Sep	0
1996	11-May	30-Sep	0
1997	16-May	30-Sep	0
1998	5-May	30-Sep	0
1999	12-Apr	30-Sep	0
Avg.	5-May	29-Sep	0
Earliest	16-Mar	20-Sep	0
Latest	1-Jul	2-Oct	1

Notes: 1. Data is from Hydrographers' Annual

KEY DIVERSIONS

Diversion: **GERDEL DITCH DIVERSION**

Date: 29 Aug. 2000


Gerdel Ditch Headgate

Note: The Gerdel Ditch entirely diverts Little Goose Creek at its headgate. Return flows typically put 12-14 cfs back into Little Goose Creek downstream of lands served by the Gerdel Ditch.

Diversion Description: Headgate consists of a single, 3.8 x 3-foot rectangular steel gate in steel slides operated with Waterman-type screw, mounted in a tilting concrete headwall.

Diversion Location: The Gerdel Ditch diversion is located on the main stem of Little Goose Creek between the confluences of Little Goose with Kruse and Jackson creeks.

Headgate:

Lat.	Long.
N 44° 41' 30.0"	W 106° 58' 59.0"

Flume:

Lat.	Long.
N 44° 41' 30.5"	W 106° 58' 55.5"

Conveyance Description: Open channel canal, approximately 5 mi. long.

Direct Flow Water Rights: The summary of direct flow rights follows:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative (cfs)
Terr.	04-15-1880	Misc		1.30	1.30
Terr.	04-15-1880	I	1	0.02	1.32
Terr.	04-15-1880	I	100	1.43	2.75
Terr.	04-15-1880	I	125	1.79	4.54
Terr.	04-15-1880	I	130	1.86	6.40
Terr.	04-15-1880	I	140	2.00	8.40
Terr.	04-15-1880	I	140	2.00	10.40
4108E	06-09-20	I	52.8	0.75	11.15

Associated Storage Rights: None

Irrigation Practices: See Little Goose summary.

Return Flows: Estimated percentage of total diversion developing into return flows:

Destination	Wet Yr.	Avg Yr.	Dry Yr.
Burn-Cleuch Ditch	40	40	40

Losses: 15 percent by the end of the ditch

References: Bill Knapp, water commissioner, State Engineer's Office, interview, 29 Aug. 2000

Irrigated Lands Water Rights Database

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
Terr	D	Gerdel (Waldheim Pump System, Argento Pump)	April 15, 1880	636	9.1	CFS	OS	Adj	Little Goose Creek
4108	E	Enl Gerdel	June 9, 1920	52.8	0.75	CFS	OS	Adj	Little Goose Creek

Name	Gerdel Ditch Diversion
Source	Little Goose Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971													
1972													
1973													
1974							0.00	0.00	215.05	436.38	410.90	0.00	1062.33
1975													
1976													
1977													
1978													
1979													
1980													
1981							0.00	631.72	856.00	436.00	433.00	431.00	2787.72
1982							0.00	384.83	768.87	475.60	682.88	468.30	2780.48
1983							0.00	44.11	836.65	753.43	511.55	99.31	2245.05
1984							0.00	0.00	324.57	609.72	586.71	155.08	1676.08
1985							0.00	602.74	463.87	544.37	540.99	109.07	2261.04
1986							0.00				634.42	115.27	
1987							0.00	354.13	398.33	293.63	446.43	195.19	1687.71
1988							179.54	351.33	633.69	692.80	111.45	0.00	1968.81
1989							0.00	137.34	474.34	553.17	586.62	221.93	1973.40
1990							0.00				433.09	253.82	
1991							0.00	0.00	250.23	649.96	632.21	422.00	1954.40
1992							0.00				621.99	485.39	
1993							0.00	277.92	527.37	395.10	546.95	291.03	2038.37
1994							0.00	556.79	627.32	635.05	649.11	435.42	2903.69
1995							0.00	0.00	460.99	625.27	675.92	319.00	2081.18
1996							0.53	276.57	552.98	652.54	595.48	433.03	2511.13
1997							0.00	359.92	642.69	629.72	572.25	172.06	2376.64
1998							0.00	365.80	622.51	680.78	616.90	148.00	2433.99
1999							0.00	0.00	283.53	662.72	622.47	306.84	1875.56
Mean							9.00	255.48	525.82	572.13	545.57	253.09	2153.98
Max							179.54	631.72	856.00	753.43	682.88	485.39	2903.69
Min							0.00	0.00	215.05	293.63	111.45	0.00	1062.33

Notes:
1. Monthly data is derived from spot measurements in the Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement
3. Monthly data for Jun-Sep 1981 is derived from published AF values in the Hydrographers Annual Reports.

Name	Gerdel Ditch Diversion		
Source	Little Goose Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971			
1972			
1973			
1974	17-Jun	31-Aug	0
1975			
1976			
1977			
1978			
1979			
1980			
1981	1-May	30-Sep	27
1982	18-May	22-Sep	13
1983	28-May	10-Sep	17
1984	12-Jun	11-Sep	21
1985	1-May	9-Sep	32
1986	5-May	8-Sep	54
1987	13-May	14-Sep	32
1988	20-Apr	6-Aug	21
1989	23-May	14-Sep	5
1990	10-May	24-Sep	62
1991	13-Jun	24-Sep	12
1992	5-May	23-Sep	74
1993	11-May	28-Sep	33
1994	9-May	22-Sep	10
1995	31-May	15-Sep	16
1996	29-Apr	24-Sep	41
1997	15-May	11-Sep	27
1998	8-May	8-Sep	25
1999	18-Jun	17-Sep	25
Avg.	17-May	14-Sep	27
Earliest	20-Apr	6-Aug	0
Latest	18-Jun	30-Sep	74

Notes: 1. Data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980.

KEY DIVERSIONS

Diversion: **LAST CHANCE DITCH DIVERSION**

Date: 29 Aug. 2000

Diversion Description: Headgate consists of two, 3.6 x 3-foot rectangular steel gates in steel slides operated with Waterman-type screws, mounted in a steel headwall. Both gates look in good condition and control flow through two, three-foot–diameter corrugated metal pipes.

Last Chance Headgate

Diversion Location: The Last Chance Ditch diversion is located on the main stem of Little Goose Creek, and delivers water to the Kruse Creek headwaters.

Headgate:

Lat.	Long.
N 44° 35' 46.4"	W 107° 2' 20.8"

Conveyance Description: Open channel canal, approximately 11 mi. long.

Direct Flow Water Rights: The summary of direct flow rights follows:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative (cfs)
Terr.	03-20-1888	I,S	30	0.43	0.43
Terr.	03-20-1888	I,S	50	0.71	1.14
Terr.	03-20-1888	I,S	50	0.71	1.85
Terr.	03-20-1888	I,S	150	2.14	3.99
Terr.	03-20-1888	I,S	400	5.71	9.70
2324E	01-07-1908	I	90	1.28	10.98
5340E	01-22-1943	I	283	4.04	15.02
6698E	09-22-1977	I	62	0.88	15.90

Note: Last Chance Ditch also carries 5.34 cfs of Upper East Side Ditch and 5.71 cfs of Double Cross #1 water.

Associated Storage Rights: S. K. Johnston owns stored water in Park.

Irrigation Practices: See Little Goose summary.

Return Flows: Estimated percentage of total diversion developing into return flows:

Destination	Wet Yr.	Avg. Yr.	Dry Yr.
Kruse Creek	20	20	20

Losses: Approximately 25 percent by the end of the ditch. Last Chance Ditch crosses a number of glacial gravel seams, losing much water in conveyance.

References: Bill Knapp, water commissioner, State Engineer's Office, interview, 29 Aug. 2000

Irrigated Lands Water Rights Database

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
Terr	D	Upper East Side (Last Chance)	Dec. 1, 1881	634	9.05	CFS	OS	Adj	Little Goose Creek
Terr	D	Last Chance	May 6, 1885	195	2.78	CFS	OS	Adj	Rock Creek
Terr	D	Last Chance	March 20, 1888	680	9.7	CFS	OS	Adj	Little Goose Creek
Terr	D	Last Chance, 2nd App.	April 20, 1888	75	1.07	CFS	OS	Adj	Rock Creek
255	E	Enl. Last Chance	May 31, 1897	40	0.55	CFS	OS	Adj	Little Rapid Creek
2324	E	Enl. Last Chance	Jan. 7, 1908	330	4.71	CFS	OS	Adj	Cross Creek and Little Goose Creek
2324	E	Enl. Last Chance	Jan. 7, 1908	100	0		SS	Adj	Little Goose Creek
2324	E	Enl. Last Chance	Jan. 7, 1908	20	0		SS	Adj	Cross Creek and Little Goose Creek
13962	D	Last Chance	Dec. 27, 1915	36	0.51	CFS	OS	Adj	Smith Draw
17133	D	Last Chance	Sep. 4, 1926	44.5	0.66	CFS	OS	Adj	East Pass Creek
5340	E	Enl. Last Chance	Jan. 22, 1943	120	0		SS	Adj	Little Goose Creek
5340	E	Enl. Last Chance	Jan. 22, 1943	283	4.04	CFS	OS	Adj	Little Goose Creek
5572	E	Enl. Last Chance through Park Res. Diversion	April 26, 1951	465.1	0		SS	Adj	East Fork Big Goose Creek
5572	E	Enl. Last Chance through Park Res. Diversion	April 26, 1951	431.3	6.16	CFS	OS	Adj	East Fork Big Goose Creek
6698	E	Clow Enlargement Last Chance	Sep. 27, 1977	71	0		SS	Adj	Little Goose Creek
6698	E	Clow Enlargement Last Chance	Sep. 27, 1977	61.7	0.88	CFS	OS	Adj	Little Goose Creek

Name	Last Chance Ditch Diversion
Source	Little Goose Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971	0.00						0.00	181.90	624.26	1109.16	1627.64	617.63	4160.59
1972	0.00						5.20	56.87	1137.20	1230.35	1286.48	903.93	4620.03
1973	21.54						0.00	73.79	942.23	1307.11	1364.23	592.26	4301.16
1974	0.00						0.00	523.04	1449.12	1459.83	1233.32	810.45	5475.76
1975	0.00						0.00	1.98	11.90	865.98	1296.40	743.19	2919.45
1976	0.00						0.00	4.40	1019.03	1337.06	1355.11	677.81	4393.41
1977	0.00						0.00	786.39	1543.73	1252.96	1151.60	678.21	5412.89
1978	0.00						0.00	0.00	85.67	1259.90	1368.00	966.94	3680.51
1979													
1980	0.00						0.00	1289.00	1506.00	462.00	303.00	345.00	3905.00
1981	0.00						325.00	489.00	933.00	718.00	683.00	636.00	3784.00
1982	0.00						0.00	141.00	483.00	1100.00	1570.00	430.00	3724.00
1983	0.00						0.00	0.00	1670.00	1520.00	1300.00	1040.00	5530.00
1984	0.00						0.00	0.00	0.00	1546.08	1556.00	1225.17	4327.25
1985	0.00						0.00	792.84	1067.80	1122.50	991.81	533.07	4508.02
1986	0.00						0.00	983.46	786.10	1191.07	827.23	359.85	4147.71
1987	0.00						233.00	1043.00	919.00	992.00	875.00	467.00	4529.00
1988	0.00						0.00	235.00	1288.00	1292.00	548.00	354.00	3717.00
1989	0.00						0.00	373.60	781.30	901.50	1183.10	822.20	4061.70
1990	0.00						0.00	89.80	388.10	1084.60	1111.10	817.00	3490.60
1991	0.00						0.00	0.00	259.60	1080.30	1159.30	530.30	3029.50
1992	0.00						55.30	1035.80	672.10	753.50	876.10	564.10	3956.90
1993	0.00						0.00	0.00	302.00	366.90	897.90	630.70	2197.50
1994	0.00						0.00	250.00	855.30	1118.60	757.10	605.90	3586.90
1995	0.00						0.00	0.00	143.70	819.70	1063.90	703.50	2730.80
1996	0.00						0.00	17.40	680.10	1217.80	1150.40	654.70	3720.40
1997	0.00						0.00	148.30	288.80	642.20	685.50	565.60	2330.40
1998	0.00						0.00	614.20	827.40	1147.60	1148.00	511.40	4248.60
1999	0.00						0.00	0.00	414.00	1000.00	1076.00	555.00	3045.00
Mean	0.77						22.09	326.10	752.80	1067.81	1087.33	655.03	3911.93
Max	21.54						325.00	1289.00	1670.00	1546.08	1627.64	1225.17	5530.00
Min	0.00						0.00	0.00	0.00	366.90	303.00	345.00	2197.50

Notes:
1. Monthly data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement
3. May & June 1971 data contain interpolated data using the WRDS records.

Name	Last Chance Ditch Diversion		
Source	Little Goose Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971	17-May	30-Sep	6
1972	27-Apr	2-Oct	0
1973	24-May	28-Sep	0
1974	10-May	30-Sep	0
1975	27-May	30-Sep	0
1976	31-May	26-Sep	0
1977	10-May	30-Sep	0
1978	27-Jun	30-Sep	0
1979			
1980	1-May	30-Sep	0
1981	12-Apr	30-Sep	0
1982	1-May	30-Sep	0
1983	1-Jun	30-Sep	0
1984	3-Jul	30-Sep	0
1985	1-May	30-Sep	0
1986	5-May	30-Sep	0
1987	21-Apr	30-Sep	0
1988	22-May	30-Sep	0
1989	16-May	30-Sep	0
1990	23-May	30-Sep	0
1991	3-Jun	30-Sep	0
1992	28-Apr	30-Sep	0
1993	9-Jun	30-Sep	0
1994	18-May	30-Sep	0
1995	6-Jun	30-Sep	0
1996	21-May	30-Sep	0
1997	15-May	30-Sep	0
1998	5-May	30-Sep	0
1999	9-Jun	30-Sep	0
Avg.	18-May	29-Sep	0
Earliest	12-Apr	26-Sep	0
Latest	3-Jul	2-Oct	6

Notes: 1. Data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980.

KEY DIVERSIONS

Diversion: **PERALTA DITCH DIVERSION and MOUNTAIN SUPPLY (PERALTA) DIVERSION DITCH**

Date: 29 Aug. 2000

Diversion Description: Headgate consists of two, 3.5 x 3.5-foot square steel gates in steel slides operated with Waterman-type screws, mounted in a concrete-and-rock throat. One of the gates screws is badly bent.

Mountain Supply Ditch Headgate

Diversion Location: The Peralta Ditch diversion is located on the main stem of Little Goose Creek, and represents the first diversion downstream of the canyon mouth.

Mountain Supply Headgate:

Lat.	Long.
N 44° 32' 47.7"	W 107° 12' 37.4"

Mountain Supply Flume:

Lat.	Long.
N 44° 32' 54.3"	W 107° 12' 38.9"

Peralta (on Little Goose) Headgate:

Lat.	Long.
N 44° 35' 47.6''	W 107° 2' 21.1''

Conveyance Description: Open channel canal, approximately 14 mi. long. Approximately 250 feet of the diversion is piped near the headgate. The conveyance crosses a number of gravel seams, increasing the ditch loss.

Direct Flow Water Rights: The summary of direct flow rights follows:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)
Terr.	11-01-1885	I	23.50	0.34	0.34
Terr.	11-01-1885	I	30.00	0.43	0.77
Terr.	11-01-1885	I	35.00	0.50	1.27
Terr.	11-01-1885	I	40.00	0.57	1.84
Terr.	11-01-1885	I	50.00	0.71	2.55
Terr.	11-01-1885	I	50.00	0.71	3.26
Terr.	11-01-1885	I	70.00	1.00	4.26
Terr.	11-01-1885	I	70.50	1.00	5.26
Terr.	11-01-1885	I	75.00	1.07	6.33
Terr.	11-01-1885	I	80.00	1.14	7.47
Terr.	11-01-1885	I	105.00	1.51	8.98
Terr.	11-01-1885	I	155.00	2.21	11.19
Terr.	11-01-1885	I	160.00	2.28	13.47
Terr.	11-01-1885	I	160.00	2.28	15.75
Terr.	11-01-1885	I	300.00	4.28	20.03
Terr.	11-01-1885	I	320.00	4.57	24.60
Terr.	11-01-1885	I	320.00	4.57	29.17
Terr.	11-01-1885	I	320.00	4.57	33.74

Direct Flow Water Rights cont'd:

Permit	Priority Date	Permitted Use	Acres	Flow (cfs)	Cumulative Flow (cfs)
Terr.	11-01-1885	I	320.00	4.57	38.31
Terr.	11-01-1885	I	360.00	5.14	43.45
Terr.	11-01-1885	I	480.00	6.85	50.30
Terr.	11-01-1885	I	518.00	7.40	57.70
238E	03-08-1897	I	55.00	0.78	58.48
381E	07-01-1898	D,I	40.00	0.57	59.05
16007	09-15-1920	I	30.42	0.43	59.48
4298E	11-07-1921	D,I,S	0.00	0.02	59.50
4298E	11-07-1921	I	4.00	0.06	59.56
4298E	11-07-1921	I	20.00	0.28	59.84
4298E	11-07-1921	D,I,S	20.00	0.28	60.12
4298E	11-07-1921	D,I,S	45.00	0.66	60.78
4298E	11-07-1921	D,I,S	53.00	0.78	61.56
4298E	11-07-1921	I	120.00	1.71	63.27
4298E	11-07-1921	I	127.00	1.81	65.08
4298E	11-07-1921	D,I,S	435.00	6.23	71.31
4298E	11-07-1921	I	665.00	9.50	80.81
5600E	02-07-1952	I	100.00	1.43	82.24
5978E	04-14-1952	I	5.00	0.07	82.31
5978E	04-14-1952	I	159.00	2.27	84.58
5978E	04-14-1952	I	292.80	4.18	88.76
5979E	04-14-1952	I	25.72	0.37	89.13

Note: This ditch carries water from Cross Creek (a tributary of Big Goose), the East Fork of Big Goose, and Little Goose. It also carries 1.07 cfs of Red Hill Ditch water. "Peralta Mountain Supply" exists as two separate rights in Clear Creek and Big Goose. Of the two, the Clear Creek right is junior and is used first.

Associated Storage Rights: Individual landowners use water stored in Cross Creek, Park, Martin, and Willits reservoirs.

Irrigation Practices: See Little Goose summary.

Return Flows: Estimated percentage of total diversion developing into return flows:

Destination	Wet Yr.	Avg. Yr.	Dry Yr.
Little Goose	25	25	25

Losses: 30 percent by the end of the ditch

References: Bill Knapp, water commissioner, State Engineer's Office, interview, 29 Aug. 2000

Irrigated Lands Water Rights Database

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
Terr	D	Red Hill (Peralta)	April 30, 1883	75	1.07	CFS	OS	Adj	Little Goose Creek
Terr	D	Big Goose & Beaver (Peralta, Colorado Colony)	Aug. 29, 1885	6430	92.01	CFS	OS	Adj	East Fork Big Goose Creek
Terr	D	Peralta (Colorado Colony, Red Hill, Big Goose & Beaver)	Nov. 1, 1885	3971.5	56.7	CFS	OS	Adj	Cross Creek
Terr	D	Peralta (Big Goose & Beaver)	Nov. 1, 1885	70.5	1	CFS	OS	Adj	East Fork Big Goose Creek
Terr	D	Peralta (Colorado Colony, Red Hill, Big Goose & Beaver)	Nov. 1, 1885	3971.5	56.7	CFS	OS	Adj	Cross Creek

Irrigated Lands Water Rights Database cont'd.

PerNo	PerSfx	Facility Name	Priority	Acres	Amount	Unit	SupTyp	Status	Source
238	E	Enl. Peralta	March 8, 1897	55	0.78	CFS	OS	Adj	Cross Creek
381	E	Enl. Peralta	July 1 1898	40	0.57	CFS	OS	Adj	Cross Creek
16007	D	Peralta	Sep. 15, 1920	30.42	0.43	CFS	SS	Adj	North Prong Hurlburt Creek
4298	E	Enl. Peralta (Colorado Colony)	Nov. 7, 1921	1489	21.33	CFS	OS	Adj	Little Goose Creek
4298	E	Enl. Peralta (Colorado Colony)	Nov. 7, 1921	2049	0		SS	Adj	Little Goose Creek
5601	E	Enl. Peralta	Feb. 7, 1952	200	0		SS	Adj	Little Goose Creek
5979	E	Enl. Peralta (Colorado Colony)	April 14, 1952	25.72	0.37	CFS	OS	Adj	Little Goose Creek
5978	E	Enl. Peralta (Colorado Colony)	April 14, 1952	456.8	6.52	CFS	OS	Adj	Cross Creek
5979	E	Enl. Peralta (Colorado Colony)	April 14, 1952	693.2	0		SS	Adj	Little Goose Creek

Name	Mountain Supply (Peralta) Diversion
Source	Cross Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971								0.00	0.00	1806.99	2492.43	627.17	4926.59
1972								0.00	626.50	1243.79	1885.68	1233.52	4989.49
1973								0.00	437.75	1556.17	2073.92	718.61	4786.45
1974								0.00	1099.24	2354.58	2512.46	674.78	6641.06
1975								0.00	294.39	2290.81	2804.43	895.66	6285.29
1976								0.00	1105.90	2362.71	2438.87	1340.83	7248.31
1977								0.00	2109.42	1253.02	2142.35	739.44	6244.23
1978								0.00	0.00	1839.09	1058.38	2651.70	5549.17
1979													
1980								0.00	1178.00	2518.00	2043.00	1058.00	6797.00
1981								271.00	1304.00	1229.00	1342.00	1801.00	5947.00
1982								0.00	287.00	1880.00	2670.00	968.00	5805.00
1983								0.00	1410.00	2910.00	2290.00	1080.00	7690.00
1984								0.00	1609.00	2277.00	2095.00	1276.00	7257.00
1985								0.00	1536.16	2066.93	1134.26	0.00	4737.35
1986								0.00	1728.38	1703.87	2413.46	389.66	6235.37
1987								0.00	479.00	672.00	1529.00	584.00	3264.00
1988								0.00	789.00	2702.00	1129.00	428.00	5048.00
1989								0.00	877.20	1885.70	2234.10	833.40	5830.40
1990								0.00	1239.50	1039.00	1884.40	2076.50	6239.40
1991								0.00	1768.60	1575.60	1682.50	0.00	5026.70
1992								198.20	1650.50	1774.30	1836.20	2242.10	7701.30
1993								0.00	1523.70	950.60	2617.10	2132.50	7223.90
1994								0.00	1093.70	2091.40	1765.90	315.50	5266.50
1995								0.00	0.00	804.00	2930.90	1582.10	5317.00
1996								0.00	2245.10	1592.10	2438.70	1380.40	7656.30
1997								0.00	2231.20	1542.70	1790.10	1695.60	7259.60
1998								50.40	1808.60	2047.00	1500.20	1967.50	7373.70
1999								0.00	2178.30	2171.00	2891.90	776.30	8017.50
Mean								18.56	1164.65	1790.69	2058.08	1123.87	6155.84
Max								271.00	2245.10	2910.00	2930.90	2651.70	8017.50
Min								0.00	0.00	672.00	1058.38	0.00	3264.00

Notes:
1. Monthly data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement
3. July 1971 data contains interpolated data using the WRDS records.

Name	Mountain Supply (Peralta) Diversion Ditch		
Source	Cross Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971	1-Jul	30-Sep	5
1972	10-Jun	30-Sep	0
1973	25-Jun	18-Sep	0
1974	11-Jun	22-Sep	0
1975	19-Jun	17-Sep	0
1976	7-Jun	28-Sep	0
1977	1-Jun	30-Sep	0
1978	1-Jul	30-Sep	0
1979			
1980	13-Jun	30-Sep	0
1981	4-May	30-Sep	0
1982	25-Jun	17-Sep	0
1983	15-Jun	30-Sep	0
1984	5-Jun	30-Sep	0
1985	3-Jun	29-Aug	0
1986	11-Jun	8-Sep	0
1987	10-Jun	30-Sep	0
1988	5-Jun	25-Sep	0
1989	1-Jun	20-Sep	0
1990	20-Jun	30-Sep	0
1991	5-Jun	30-Aug	0
1992	12-May	30-Sep	0
1993	11-Jun	30-Sep	0
1994	6-Jun	30-Sep	0
1995	13-Jul	30-Sep	0
1996	3-Jun	30-Sep	0
1997	5-Jun	30-Sep	0
1998	26-May	30-Sep	0
1999	11-Jun	30-Sep	0
Avg.	9-Jun	24-Sep	0
Earliest	4-May	29-Aug	0
Latest	13-Jul	30-Sep	5

Notes: 1. Data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980.

Name	Peralta Ditch Diversion
Source	Little Goose Creek
District	4
Data	Total monthly flow in AF

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1970													
1971							0.00	783.15	1420.36	944.96	792.24	170.70	4111.41
1972							0.00	189.42	1970.97	999.89	962.78	533.04	4656.10
1973							0.00	2.34	1587.29	1203.41	827.50	972.89	4593.43
1974							0.00	529.78	1743.67	992.33	769.39	550.81	4585.98
1975							0.00	0.00	60.85	485.81	1026.45	746.56	2319.67
1976													
1977							0.00	966.64	1117.69	742.71	599.29	178.51	3604.84
1978							0.00	0.00	0.00	0.00	220.54	814.61	1035.15
1979													
1980							100.00	1601.00	1446.00	358.00	142.00	236.00	3883.00
1981							142.00	573.00	1211.00	444.00	232.00	248.00	2850.00
1982							0.00	229.00	1370.00	1010.00	1040.00	624.00	4273.00
1983							0.00	0.00	1200.00	1020.00	580.00	298.00	3098.00
1984							0.00	0.00	70.69	971.22	493.51	295.20	1830.62
1985							0.00	744.17	1534.50	774.90	429.09	147.85	3630.51
1986							0.00	302.21	1411.86	792.79	569.64	423.62	3500.12
1987							0.00	1297.00	1042.00	559.00	707.00	356.00	3961.00
1988							52.00	496.00	1494.00	681.00	363.00	159.00	3245.00
1989							0.00	0.00	1534.00	708.90	675.00	431.50	3349.40
1990							0.00	0.00	312.00	758.60	663.90	400.20	2134.70
1991							0.00	27.30	653.80	765.40	359.40	152.80	1958.70
1992							36.50	607.00	985.60	905.50	713.90	690.40	3938.90
1993							0.00	375.30	558.40	452.50	759.40	622.30	2767.90
1994							0.00	431.80	758.80	382.00	357.30	324.30	2254.20
1995							0.00	0.00	0.00	433.40	955.80	456.20	1845.40
1996							0.00	87.00	786.30	778.60	566.30	414.20	2632.40
1997							0.00	334.80	284.20	715.30	738.60	596.30	2669.20
1998							0.00	864.20	1034.30	928.00	738.30	1049.40	4614.20
1999							0.00	4.66	577.00	772.00	690.00	357.00	2400.66
Mean							12.24	386.88	969.08	725.19	628.60	453.68	3175.68
Max							142.00	1601.00	1970.97	1203.41	1040.00	1049.40	4656.10
Min							0.00	0.00	0.00	0.00	142.00	147.85	1035.15

Notes: 1. Monthly data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980
2. Zero flow is assumed prior to the first and after the last measurement

Name	Peralta Ditch Diversion		
Source	Little Goose Creek		
District	4		
Data	First & Last Dates, Max. Days		
Water Year	First Date of Measurement	Last Date of Measurement	Maximum Days Missing
1970			
1971	17-May	30-Sep	0
1972	29-May	2-Oct	0
1973	21-May	27-Sep	0
1974	20-May	30-Sep	0
1975	18-Jun	30-Sep	0
1976			
1977	10-May	30-Sep	0
1978	17-Aug	30-Sep	0
1979			
1980	22-Apr	30-Sep	0
1981	17-Apr	30-Sep	0
1982	13-May	30-Sep	0
1983	8-Jun	30-Sep	0
1984	23-Jun	30-Sep	0
1985	1-May	30-Sep	0
1986	17-May	30-Sep	0
1987	1-May	30-Sep	0
1988	19-Apr	30-Sep	0
1989	1-Jun	30-Sep	0
1990	18-Jun	30-Sep	0
1991	20-May	30-Sep	0
1992	27-Apr	30-Sep	0
1993	11-May	30-Sep	0
1994	18-May	30-Sep	0
1995	12-Jul	30-Sep	0
1996	21-May	30-Sep	0
1997	5-May	30-Sep	0
1998	5-May	30-Sep	0
1999	28-May	30-Sep	0
Avg.	22-May	29-Sep	0
Earliest	17-Apr	27-Sep	0
Latest	17-Aug	2-Oct	0

Notes: 1. Data is from Hydrographers' Annual Reports for years 1980 and later, and from WRDS for years prior to 1980.