

HAYMEADOW PROPERTY

EAGLE, COLORADO

RECONNAISSANCE EVALUATION OF WATER DEMANDS AND WATER RIGHTS

APRIL 22, 2011



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1.0 SUMMARY

This report evaluates the water rights associated with the Haymeadow Property, and also quantifies average monthly water demands for the residential development proposed for the property. The objective of this assessment is to quantify the historical use associated with irrigation water rights on the property, and to compare this historical use with future on-site water demands. Specific information related to peak water demands and to facility sizing is not addressed in this assessment, but is presented in the Conceptual Utility Report prepared by Alpine Engineering (April 2011). Please note that the water demand estimates outlined in this report are based on the current Concept Plan for the site. As the development plan for the Haymeadow Property is refined, it may be appropriate to update the water demand estimates outlined herein.

Overview. The Haymeadow Property is a 660 acre parcel of land located east of Brush Creek and immediately south of the Town of Eagle. Most of the parcel is flood irrigated with senior water rights that are diverted from Brush Creek. Flood irrigation on the site has occurred for over 100 years. Historically, about 5,200 acre feet of water has been annually diverted to irrigate the property, and about 1,070 acre feet of water has been annually consumed by the irrigation.

The conceptual development plan for the property proposes 979 residential units. A substantial open space park complex is also proposed, along with an integrated system of open space corridors, trails and community parks that will connect the various residential neighborhoods developed on the site.

The development will require both treated (potable) and untreated (non-potable) water supplies. Potable water will supply in-house residential uses, and irrigation water for lawns and gardens in the higher density residential areas. Potable water will be supplied by the Town of Eagle. Non-potable water supplies will be required for open space irrigation, landscape irrigation at multi-family units, and for the maintenance of small ponds and minor water features located within the on-site parks and open space corridors. Non-potable water will be diverted from Brush Creek through existing irrigation ditches.

Water Diversions. When the property is fully developed, the total amount of water diverted for the residential development (both potable and non-potable) will be substantially less than the historical irrigation diversions for the property. Ultimately, the total water demands (diversions) for residential and irrigation purposes are estimated to be about 1,240 acre feet per year, or about 24% of the historical irrigation diversions. Of this total, about 512 acre feet of potable water supply will be required, and approximately 728 acre feet of non-potable water will be required. Also, when compatible with the Town of Eagle's Stream Management Plan, additional non-potable water will be diverted from Brush Creek through existing diversion structures on the property. This additional non-potable water will offset delivery system losses to the non-potable irrigation system, and will be used for aesthetic and recreational purposes in community parks and open spaces (water features).

The Town of Eagle has developed water management objectives which promote the maintenance of streamflow in Brush Creek. In accordance with the Town of Eagle's management objectives for Brush Creek, the on-site ditches and water features will be efficiently designed to utilize the smallest amount of water that is necessary to meet the objectives of the development. This design and operation will maximize stream flow of Brush Creek. Even when considering the use of on-site water features, it is anticipated that overall diversions from Brush Creek will be substantially less than historical irrigation diversions, particularly during the late summer months when the maintenance of Brush Creek stream flow is of most concern.

Consumptive Water Use. Only a small portion of the water that is diverted for residential use will be actually consumed. We estimate that annual consumptive water use associated with the development will total approximately 683 acre feet per year, or about 64% of the historical consumptive water use on the property. Of this total, about 18 acre feet will be consumed for residential use, with the remaining consumptive use associated with continued irrigation.

Water Rights. As outlined above, the development will divert and consume substantially less water than the current irrigation practices on the parcel. Senior water rights associated with the property are more than adequate to offset irrigation season water use. During the non-irrigation season, the development will consume about 7.3 acre feet of water at build-out.

Senior irrigation water rights adequate to supply the irrigation season depletions of the project will be conveyed to the Town of Eagle. Approximately 395 acre feet of excess consumptive use credits are associated with the development, and will be retained. In addition, the applicant proposes to acquire water in Wolford Mountain Reservoir or other similar storage reservoirs to offset the 7.3 acre feet of non-irrigation season depletions of the development.

2.0 WATER DEMANDS

The Haymeadow Property will require both potable and non-potable water supplies. A summary of projected water demands and consumptive use from each of these water sources is outlined below. The water demand estimates are based on the assumptions and criteria outlined in Appendix A of the Alpine Engineering 2011 report and include:

- Assumed build-out condition
- Master plan dated 03/10/2011
- Approximate park acreage within development pods = 20% of total acreage (irrigation worksheet from DHM)
- Assumed road right-of-way within development pods = 20% of total acreage
- Multi-family common areas were calculated for Neighborhood A using DHM site plan (dated 03/07/2011). Multi-family common areas for other parcels were approximated based on densities for Neighborhood A.
- School/recreation area assumed 50% irrigated
- Community parks turf areas assumed 10% turf in "natural/rough" areas along with irrigated fields and landscaping within the Trailhead Community Park

2.1 Potable Water System

Potable, treated water will be required for domestic in-house use and for the irrigation of lawn and garden areas. It is anticipated that potable water supplies for the development will be supplied by the Town of Eagle. Total potable water system demands are estimated to be about 512 acre feet per year, with an associated annual consumptive use of about 137 acre feet for the potable water system (Table 1). Peak system demands and infrastructure requirements are addressed in the Conceptual Utility Report prepared by Alpine Engineering (April 2011).

Maximum in-house residential demands are estimated to total 353.7 acre feet per year (Table 1). Of this total demand, it is estimated that 5% (17.7 acre feet of water) will be consumed. These maximum residential demands are based on an occupancy rate varying from 2.8 to 3.2 occupants, depending upon the size of the residential dwelling. Accessory dwelling unit (ADU) occupancy is estimated at 2.0 occupants per unit. Based on potable demands outlined in the Alpine Engineering 2011 report, we have estimated the single family units to be 90% occupied on a year-round basis, and all other units were estimated to be 100% occupied year-round. Based on our experience with other residential developments we conclude that actual occupancy, and associated residential water use, will likely be significantly less than outlined in Table 1.

It is estimated that about 61.7 acres of lawn and garden area will be irrigated by the potable water system. This area is consistent with the proportion of irrigated areas in adjoining residential developments of a similar density. The potable irrigation will require about 158 acre feet of diversions per year, with an annual consumptive water use of about 119 acre feet (Table 1).

TABLE 1
Haymeadow Property - Water Demand Estimates

RESIDENTIAL DEVELOPMENT		
Unit Type	Units / Lot	Occupants / Unit
Single Family	644	3.2
Multi Family	335	2.8
ADU	97	2.0
Sales Center/Community Park	1	10
Events Pavilion	1	200
K-8 School	1	600
Fire Station	1	
Fire Station ADU	5	2.8
Total	1085	

IRRIGATED AREA	
	Irrigated Area (acres)
Potable System	61.7
Non-Potable System	281.5

POND AREA	
	Total Surface Area (acres)
Pond Area (Non-Potable)	2.0

WATER REQUIREMENTS (ACRE FEET)

In House Use (gpcd) =	100	Irrigation Consumptive Use (ft) =	1.93
School/Parks Use (gpcd) =	20	Domestic C.U. =	5%
Pavilion Use (gpcd) =	6	Irrigation Efficiency =	75%
Fire Station Use (gpd) =	2,250		

	POTABLE SYSTEM						NON - POTABLE SYSTEM		TOTAL DEVELOPMENT	
	In-House		Irrigation		Total Potable System		Diversions	Consumptive Use	Diversions	Consumptive Use
	Diversions	Consumptive Use	Diversions	Consumptive Use	Diversions	Consumptive Use				
January	30.0	1.5	0.0	0.0	30.0	1.5	0.0	0.0	30.0	1.5
February	27.1	1.4	0.0	0.0	27.1	1.4	0.0	0.0	27.1	1.4
March	30.0	1.5	0.0	0.0	30.0	1.5	0.0	0.0	30.0	1.5
April	29.1	1.5	3.4	2.5	32.4	4.0	15.5	11.6	47.9	15.6
May	30.0	1.5	25.5	19.1	55.5	20.6	117.2	87.9	172.7	108.5
June	29.1	1.5	34.7	26.0	63.8	27.5	159.5	119.6	223.3	147.1
July	30.0	1.5	37.0	27.8	67.1	29.3	170.1	127.6	237.2	156.8
August	30.0	1.5	30.3	22.7	60.3	24.2	139.1	104.3	199.4	128.5
September	29.1	1.5	21.2	15.9	50.3	17.4	97.5	73.1	147.8	90.5
October	30.0	1.5	6.3	4.7	36.3	6.2	28.7	21.5	65.0	27.7
November	29.1	1.5	0.0	0.0	29.1	1.5	0.0	0.0	29.1	1.5
December	<u>30.0</u>	<u>1.5</u>	<u>0.0</u>	<u>0.0</u>	<u>30.0</u>	<u>1.5</u>	<u>0.0</u>	<u>0.0</u>	<u>30.0</u>	<u>1.5</u>
Annual	353.7	17.7	158.4	118.8	512.0	136.5	727.7	545.7	1239.7	682.2

2.2 Non-Potable Water System

Untreated water will be used to irrigate parks and open space areas, and to offset evaporation from several small storage ponds that will supply the non-potable irrigation system. It is estimated that the ponds may have a total surface area of about 2 acres. Parks and open space irrigation includes turf areas (109.7 acres), rough areas (61 acres) and hay fields (114.4 acres) as outlined in Appendix A of the Alpine Engineering 2011 report. This total area is estimated to be about 285.1 acres in size.

The non-potable irrigation system will divert water from the on-site ponds to be located in the southwestern (down-gradient) portion of the development. The supply of water for these ponds will be from three existing irrigation ditches on the property, the Love and White Ditch, the Mathews Ditch, and the Wilkinson Ditch. As water is routed to the ponds via the irrigation ditches, it will provide secondary aesthetic benefits as outlined below. Total non-potable water demands are estimated to be about 728 acre feet per year, with an annual consumptive water use of approximately 546 acre feet.

2.3 Neighborhood Parks / Flow Through Water Features

Irrigation ditches and minor water features will be maintained throughout several open space corridors, trails and community parks that connect the various residential neighborhoods developed on the site. These ditches and water features will provide a water supply for non-potable irrigation, will be used to maintain water levels and water quality in the on-site ponds, and will enhance the character of open space areas. These water features may also serve a dual use as storm water drainage facilities.

Existing irrigation ditches and drainage features will be utilized for this purpose. The ditches that will be maintained and operated at existing locations are the Mathews Ditch, the Wilkinson Ditch, and the Love and White Ditch. It is possible that the Hernage Ditch will no longer be used. Although final design is not complete, it is anticipated that the ditches will only divert water in-priority, during the historical irrigation season (April through October). The ditches will be operated in a manner consistent with the Town of Eagle's Stream Management Plan.

The amount of water diverted through these structures will be carefully controlled to minimize diversions from Brush Creek and to ensure that only that amount of water required for the above uses is diverted from the stream. Further, the structures will be designed to operate with as little water as is reasonable. It is anticipated that the amount of water delivered through the ditches will be substantially less than the historical irrigation diversions. The rate of diversions into the ditches will likely vary throughout the year. Maximum diversions may occur during snowmelt runoff when stream flow in Brush Creek is high. Conversely, it is anticipated that diversions may decrease during the late summer months of drought years, in order to maximize the stream flow in Brush Creek during these critical periods.

Flow through water features will occur along three corridors (Alpine Engineering, 2011). When water is available from Brush Creek, it is estimated that a maximum of about 4 cfs will be routed through each of three separate open space corridors into the non-potable irrigation ponds. Total diversions from the Love and White Ditch, the Wilkinson Ditch, and the Mathews Ditch may exceed 15 cfs at certain times, and the rate of diversions will be less than the historical amount of water diverted to irrigate the property.

3.0 HISTORICAL WATER USE

Numerous senior irrigation water rights are associated with the Haymeadow Property. These senior rights have historically supplied irrigation water to about 556 acres of pasture. An overview of historical water use on the site occurs below.

3.1 Appurtenant Water Rights

Four irrigation ditches have been used on the property; the Love and White Ditch, the Mathews Ditch, the Wilkinson Ditch and the Hernage Ditch. In total, about 40 cfs of irrigation water rights are appurtenant to the property (Table 2).

Most of the appurtenant water rights are very senior and are not subject to curtailment by a downstream water right call. Based on updated mapping developed by Grand River Consulting, in coordination with Resource Engineering, we conclude that the rights have provided a reliable irrigation supply to about 556 acres of pasture (Figure 1). A summary of the estimated irrigated area by ditch is also provided in Table 2.

TABLE 2 Haymeadow Property - Appurtenant Water Rights ¹				
Structure / Irrigated Area	Amount (cfs)	Adjudication Date	Appropriation Date	Case No.
Hernage Ditch (50 acres)	0.729	12/17/1889	05/01/1882	CA294
	0.515	12/17/1889	03/30/1887	CA294
	0.172	12/17/1889	10/01/1889	CA294
	0.088	3/5/1901	5/20/1990	CA385
	<u>3.31</u>	10/3/1936	9/1/1923	CA963
	4.814			
Mathews Ditch (286 acres)	1.69	12/17/1889	06/01/1883	CA294
	1.69	12/17/1889	02/08/1889	CA294
	1.037	12/17/1889	07/30/1889	CA294
	0.565	3/5/1901	04/10/1896	CA385
	<u>12.28</u>	10/3/1936	9/1/1923	CA963
	17.262			
Wilkinson Ditch (163 acres)	2.818	3/5/1901	04/30/1882	CA385
	0.587	3/5/1901	04/30/1889	CA385
	0.288	10/3/1936	9/1/1923	CA963
	<u>8.465</u>	10/3/1936	9/1/1923	CA963
	12.157			
Love and White Ditch (57 acres)	0.866	12/17/1889	07/31/1889	CA294
	1.023	3/5/1901	02/01/1883	CA385
	1.849	3/5/1901	06/10/1897	CA385
	<u>2.412</u>	10/3/1936	9/1/1923	CA963
	6.150			
¹ Preliminary Summary Subject to Review and Confirmation				

3.2 Historical Diversions

Diversions records maintained by the State of Colorado for the four on-site ditches are summarized in Attachment 1. In total, the four ditches have diverted an average of about 8,600 acre feet per year. A substantial portion of this water has been used on property both upstream and downstream of the Haymeadow site. The amount of water historically diverted to the Haymeadow parcel is estimated to be approximately 5,200 acre feet per year. The rate of total irrigation diversions to the Haymeadow Property has averaged about 16 cfs to 21 cfs during the height of the irrigation season (June through August). In the future, a maximum of approximately 15 cfs will be diverted through the three open space corridors, into ponds that will supply non-potable irrigation water.

3.3 Historical Consumptive Use

Irrigation on the property has historically consumed about 1,070 acre feet of water per year (Table 3). The majority of historical consumptive water use is associated with the Mathews Ditch and the Wilkinson Ditch. Annual consumptive water use at the site has been calculated to be 1.93 feet per acre, based upon the Blaney-Criddle method modified with Pochop coefficients (Attachment 2).

	Hernage Ditch	Mathews Ditch	Wilkinson Ditch	Love and White Ditch	Total
Irrigated Acres	50.0	286.0	163.0	57.0	556.0
April	2.05	11.73	6.68	2.34	22.80
May	15.50	88.66	50.53	17.67	172.36
June	21.10	120.69	68.79	24.05	234.63
July	22.50	128.70	73.35	25.65	250.20
August	18.40	105.25	59.98	20.98	204.61
September	12.90	73.79	42.05	14.71	143.45
October	3.80	21.74	12.39	4.33	42.26
Total	96.25	550.55	313.78	109.73	1,070.30

4.0 WATER RIGHTS

The senior irrigation water rights associated with the Haymeadow Property are more than adequate to offset irrigation season demands associated with the development. During the non-irrigation season (November through March) the Haymeadow water rights are not adequate to offset residential depletions. A total of about 7.3 acre feet of depletions will occur during the non-irrigation season (Table 4).

TABLE 4 Summary of Consumptive Water Use (acre feet)				
	Historical Irrigation Consumptive Use	Consumptive Use for Haymeadow Residential Development	Excess Consumptive Use Credit	Consumptive Use Shortfall
January		1.50		1.50
February		1.36		1.36
March		1.50		1.50
April	22.80	15.61	7.19	
May	172.36	108.51	63.85	
June	234.63	147.13	87.50	
July	250.20	156.84	93.36	
August	204.61	128.54	76.07	
September	143.45	90.52	52.93	
October	<u>42.26</u>	27.74	<u>14.52</u>	
November		1.45		1.45
December		<u>1.50</u>		<u>1.50</u>
Annual	1,070.3	682.19	395.42	7.32

It is our understanding that the Town of Eagle has adequate water rights to fully supply the existing water treatment plant located on upper Brush Creek. At some point in the future, the Town's water demands are projected to exceed the capacity of the existing plant, at which time the Town will construct an additional treatment plant near the confluence of Brush Creek and the Eagle River. The senior irrigation rights of the Haymeadow Property can be utilized in the developments non-potable water system, and can also be transferred to the downstream intake of the Town's future water treatment plant on lower Brush Creek.

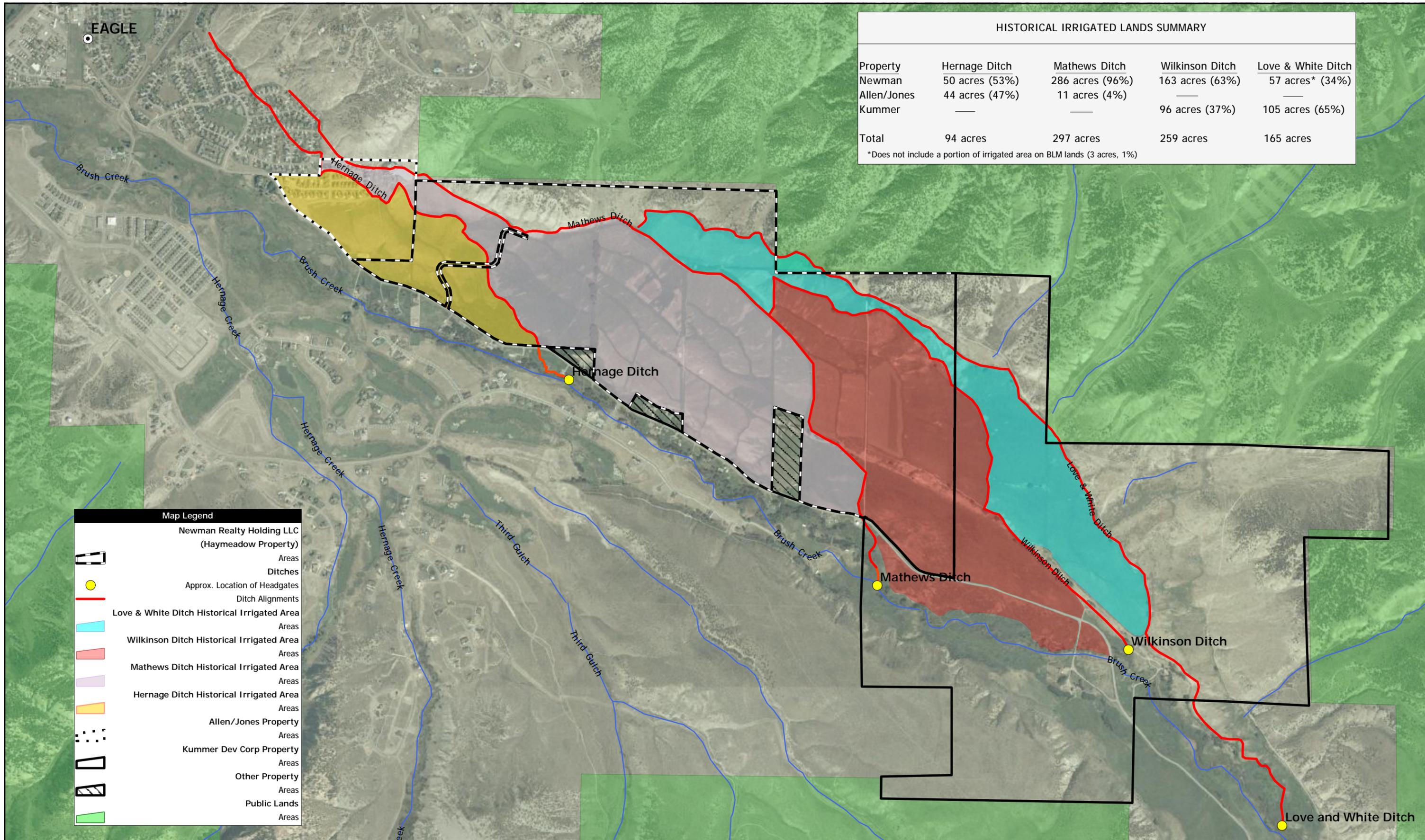
On an annual basis, approximately 395 acre feet of excess consumptive use credits are associated with the property (Table 4). This excess occurs during the irrigation season. During the non-irrigation season, the development will consume about 7.3 acre feet of water which cannot be offset by the senior irrigation rights. The applicant proposes to acquire water in Wolford Mountain Reservoir or other similar storage reservoirs to offset the 7.3 acre feet of non-irrigation season depletions of the development.

It is our understanding that the Applicant will work with the Town of Eagle to identify appropriate water rights that may be conveyed in the future.

5.0 RESERVOIR STORAGE

We do not believe that on-site water storage is needed to provide a reliable legal or physical water supply to the development. During the irrigation season, the senior water rights appurtenant to the property will provide a reliable legal supply of water. However, the 7.3 acre feet of project depletions during the non-irrigation season will typically occur when a downstream water right call is in-place from the Shoshone Hydroelectric Plant in Glenwood Canyon. These depletions must be augmented by a replacement source of water upstream of the Shoshone Plant. We recommend that the Haymeadow Project acquire 7.3 acre feet of augmentation water, plus an additional 10% of water for transit losses, from a storage project such as Wolford Mountain Reservoir, which is located near Kremmling, Colorado. This reservoir water would fully augment all non-irrigation season depletions of the development.

During the non-irrigation season, no water right call along the lower Eagle River has historically occurred, nor is a water right call anticipated from this area in the future. Accordingly, on-site storage is not required for augmentation of non-irrigation season depletions.



HISTORICAL IRRIGATED LANDS SUMMARY				
Property	Hernage Ditch	Mathews Ditch	Wilkinson Ditch	Love & White Ditch
Newman	50 acres (53%)	286 acres (96%)	163 acres (63%)	57 acres* (34%)
Allen/Jones	44 acres (47%)	11 acres (4%)	—	—
Kummer	—	—	96 acres (37%)	105 acres (65%)
Total	94 acres	297 acres	259 acres	165 acres

*Does not include a portion of irrigated area on BLM lands (3 acres, 1%)

Map Legend	
	Newman Realty Holding LLC (Haymeadow Property) Areas
	Approx. Location of Headgates
	Ditch Alignments
	Love & White Ditch Historical Irrigated Area
	Wilkinson Ditch Historical Irrigated Area
	Mathews Ditch Historical Irrigated Area
	Hernage Ditch Historical Irrigated Area
	Allen/Jones Property Areas
	Kummer Dev Corp Property Areas
	Other Property Areas
	Public Lands Areas

0 1 mi

FIGURE 1
Haymeadow Property
Historical Irrigated Area Vicinity Map
 Eagle County, Colorado



Date: April 20, 2011

Map By: M.P.
 File Name: haymeadow.map



Attachment 1

Diversion Records

Structure Summary Report

HydroBase

State of Colorado

Structure Name: MATHEWS DITCH **Water District:** 37 **Structure ID Number:** 694

Source: BRUSH CREEK

Location: Q10 Q40 Q160 Section Twnshp Range PM
 NE SE SE 10 5S 84W S

Distance From Section Lines: From N/S Line: From E/W Line:

UTM Coordinates (NAD 83): Northing (UTM y): 4387861 Easting (UTM x): 346570 Spotted from PLSS distances from section lines

Latitude/Longitude (decimal degrees):

Water Rights Summary:	Total Decreed Rate(s) (CFS):	Absolute:	19.3400	Conditional:	0.0000	AP/EX:	0.0000
	Total Decreed Volume(s) (AF):	Absolute:	0.0000	Conditional:	0.0000	AP/EX:	0.0000

Water Rights -- Transactions

Case Number	Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority Number	Decreed Amount	Adjudication Type	Uses	Action Comment
81CW0479	1889-12-17	1883-06-01	12205.00000	0	13	1.8000 C	O,TF	1	DRYUP 10ACRES FOR 18.1AFCU FOR EAST BRUSH
81CW0479	1889-12-17	1883-06-01	12205.00000	0	13	1.8000 C	O,TT	A	NEW USE LIM MAY1-OCT15 EAST BRUSH MUNI ALL
CA0294	1889-12-17	1883-06-01	12205.00000	0	13	1.8000 C	O,C	1	
CA0963	1889-12-17	1883-06-01	12205.00000	0	13	1.8000 C	O,CA	1	
CA0294	1889-12-17	1888-02-08	13918.00000	1	60	1.8000 C	O,C	1	
CA0963	1889-12-17	1888-02-08	13918.00000	1	60	1.8000 C	O,CA	1	
CA0294	1889-12-17	1889-07-30	14456.00000	0	82	1.4000 C	O,C	1	
CA0963	1889-12-17	1889-07-30	14456.00000	0	82	1.4000 C	O,CA	1	
CA0385	1901-03-05	1896-04-10	16902.00000	0	171	0.6000 C	S	1	
CA0963	1936-10-03	1923-09-01	30894.26906	0	455 SS	13.7400 C	S	1	

Water Rights -- Net Amounts

Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority/Case Number	Rate (CFS)			Volume (Acre-Feet)		
					Absolute	Conditional	AP/EX	Absolute	Conditional	AP/EX
1889-12-17	1883-06-01	12205.00000	0	13	1.8000	0	0	0	0	0
1889-12-17	1888-02-08	13918.00000	1	60	1.8000	0	0	0	0	0
1889-12-17	1889-07-30	14456.00000	0	82	1.4000	0	0	0	0	0
1901-03-05	1896-04-10	16902.00000	0	171	0.6000	0	0	0	0	0
1936-10-03	1923-09-01	30894.26906	0	455 SS	13.7400	0	0	0	0	0

Irrigated Acres Summary -- Totals From Various Sources

GIS Total (Acres):	324.263	Reported: 2005
Diversion Comments Total (Acres):	200	Reported: 2007
Structure Total (Acres):		Reported:

Irrigated Acres From GIS Data

Year	Land Use	Acres Flood	Acres Furrow	Acres Sprinkler	Acres Drip	Acres Groundwater	Acres Total
1993	***Year Total***	326.23	0	0	0	0	326.23
1993	GRASS_PASTURE	326.23	0	0	0	0	326.23
2000	***Year Total***	264.45	0	0	0	0	264.45
2000	GRASS_PASTURE	264.45	0	0	0	0	264.45
2005	***Year Total***	324.26	0	0	0	0	324.26
2005	GRASS_PASTURE	324.26	0	0	0	0	324.26

Diversion Summary in Acre-Feet - Total Water Through Structure

Year	FDU	LDU	DWC	Maxq & Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Total
1951	1951-08-18	1951-10-25	69	19 10-16	0	0	0	0	0	0	0	0	0	156	461	619	1235
1952	1952-05-06	1952-10-15	163	19 06-18	0	0	0	0	0	0	160	602	1136	1116	1104	241	4359
1953	1953-05-22	1953-10-30	162	19 05-22	0	0	0	0	0	0	383	931	344	455	735	210	3059
1954	1954-05-10	1954-10-25	169	19 05-22	0	0	0	0	0	0	390	402	344	336	333	731	2537
1955	1955-05-17	1955-10-31	153	19 05-17	0	0	0	0	0	0	482	739	648	338	175	322	2704
1956	1956-05-01	1956-10-30	183	13 06-30	0	0	0	0	0	0	251	394	692	344	317	219	2218
1957	1957-04-25	1957-10-29	188	15 06-12	0	0	0	0	0	23	189	705	781	609	582	345	3234
1958	1958-04-25	1958-10-30	189	19 05-29	0	0	0	0	0	32	232	1107	490	307	333	308	2809
1974	1974-05-16	1974-10-09	147	19 06-19	0	0	0	0	0	0	333	828	769	361	339	102	2732
1975	1975-06-05	1975-09-08	96	13 06-05	0	0	0	0	0	0	0	650	775	775	200	0	2399
1976	1976-05-10	1976-10-31	175	7 05-10	0	0	0	0	0	0	314	428	407	332	321	332	2135
1977	1977-05-18	1977-10-31	167	13 06-15	0	0	0	0	0	0	168	690	605	258	264	283	2268
1978	1978-05-15	1978-10-31	170	18 05-15	0	0	0	0	0	0	607	1071	1107	1107	547	430	4869
1979	1979-06-06	1979-10-31	148	16 06-06	0	0	0	0	0	0	0	793	984	829	530	547	3683
1980	1980-06-19	1980-09-09	83	14 06-19	0	0	0	0	0	0	0	333	861	603	175	0	1972
1981	1981-05-06	1981-09-13	131	11 05-21	0	0	0	0	0	0	544	549	504	471	183	0	2252
1982	1982-05-19	1982-10-17	152	13 07-22	0	0	0	0	0	0	266	613	689	805	577	239	3189
1983	1983-05-05	1983-10-31	180	19 06-21	0	0	0	0	0	0	343	627	1156	859	421	375	3781
1984	1984-05-20	1984-10-31	165	17 06-22	0	0	0	0	0	0	190	644	790	413	363	375	2775
1985	1985-05-23	1985-10-31	162	12 06-21	0	0	0	0	0	0	202	676	648	615	223	203	2566
1986	1986-05-28	1986-09-25	121	13 05-28	0	0	0	0	0	0	103	774	761	518	190	0	2346
1987	1987-05-20	1987-09-16	120	14 06-09	0	0	0	0	0	0	209	803	753	432	42	0	2240
1988	1988-05-05	1988-10-31	166	9 08-17	0	0	0	0	0	0	115	439	475	347	225	51	1651
1989	1989-05-01	1989-10-22	161	16 06-08	0	0	0	0	0	0	508	882	702	153	207	176	2628
1990	1990-05-18	1990-10-18	154	22 06-05	0	0	0	0	0	0	205	1041	648	221	342	207	2665
1991	1991-05-23	1991-10-20	151	22 06-01	0	0	0	0	0	0	143	1154	673	184	417	119	2690
1992	1992-05-11	1992-10-31	174	8 05-11	0	0	0	0	0	0	321	458	312	430	280	246	2047
1993	1993-05-18	1993-10-11	147	24 05-30	0	0	0	0	0	0	452	1309	960	256	397	87	3461
1994	1994-05-03	1994-10-19	170	9 05-03	0	0	0	0	0	0	535	553	424	400	417	264	2593
1995	1995-04-23	1995-10-25	173	13 05-15	0	0	0	0	0	107	580	750	269	426	417	347	2897
1996	1996-05-04	1996-10-26	176	20 05-15	0	0	0	0	0	0	793	680	547	369	373	258	3021
1997	1997-05-19	1997-10-29	164	16 06-05	0	0	0	0	0	0	382	943	817	738	565	518	3962
1998	1998-05-25	1998-10-29	158	16 05-25	0	0	0	0	0	0	222	795	702	553	313	288	2873
2001	2001-05-18	2001-10-28	164	15	0	0	0	0	0	0	139	298	307	404	893	833	2874
2002	2002-05-21	2002-09-12	115	11 05-21	0	0	0	0	0	0	240	433	295	369	143	0	1480
2003	2003-03-16	2003-10-25	224	10 06-24	0	0	0	0	63	119	128	257	581	382	333	278	2142
2004	2004-05-18	2004-10-14	150	8 05-18	0	0	0	0	0	0	225	421	107	143	298	139	1333
2005	2005-05-11	2005-10-24	157	8 05-17	0	0	0	0	0	0	312	462	280	307	298	212	1871
2006	2006-05-03	2006-10-30	181	8 07-10	0	0	0	0	0	0	443	458	491	314	283	268	2257
2007	2007-05-03	2007-10-19	170	12 05-31	0	0	0	0	0	0	601	712	628	503	482	305	3231
2008	2008-04-23	2008-09-09	122	12 05-14	0	0	0	0	0	8	441	452	543	656	37	0	2138
2009	2009-05-07	2009-10-07	120	14 05-07	0	0	0	0	0	0	709	639	100	723	264	14	2449

<i>Minimum:</i>	7	0	0	0	0	0	0	0	0	0	0	0	0	143	37	0	1235
<i>Maximum:</i>	24	0	0	0	0	0	63	119	793	1309	1156	1116	1104	833	4869		
<i>Average:</i>	15	0	0	0	0	2	7	306	655	598	474	367	250	2658			

42.00 years with diversion records

Notes: The average considers all years with diversion records, even if no water is diverted.
 The above summary lists total monthly diversions.
 * = Infrequent Diversion Record. All other values are derived from daily records.
 Average values include infrequent data if infrequent data are the only data for the year.

Diversion Comments

IYR	NUC Code	Acres Irrigated	Comment
1951		246	
1952		246	
1953		246	
1954		246	
1955		246	
1956		246	
1957		246	
1974		246	
1975		246	
1976		246	
1977		246	
1978		246	
1979		246	
1980		246	
1981		246	
1982		246	
1983		246	
1984		246	
1985		245	
1987		246	
1988		246	
1989		246	
1990		246	
1991		246	
1992		246	
1993		246	
1994		246	
1995		246	
1996		246	
1997		246	
1998		246	
1999	Water available, but not taken	0	WETLANDWS STUDY
2000		200	
2004		200	
2005		200	
2006		200	
2007		200	

Note: Diversion comments and reservoir comments may be shown for a structure, if both are available.

Structure Summary Report

HydroBase

State of Colorado

Structure Name: LOVE AND WHITE DITCH **Water District:** 37 **Structure ID Number:** 686

Source: BRUSH CREEK

Location: Q10 Q40 Q160 Section Twnshp Range PM
NW NW SW 13 5S 84W S

Distance From Section Lines: From N/S Line: From E/W Line:

UTM Coordinates (NAD 83): Northing (UTM y): 4386644 Easting (UTM x): 348484 Spotted from PLSS distances from section lines

Latitude/Longitude (decimal degrees):

Water Rights Summary:	Total Decreed Rate(s) (CFS):	Absolute: 20.4000	Conditional: 5.1000	AP/EX: 0.0000
	Total Decreed Volume(s) (AF):	Absolute: 0.0000	Conditional: 0.0000	AP/EX: 0.0000

Water Rights -- Transactions

Case Number	Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority Number	Decreed Amount	Adjudication Type	Uses	Action Comment
81CW0479	1889-12-17	1889-07-31	14457.00000	0	83	0.6200 C	O,TT	A	NEW USE LIM MAY1-OCT15 THRU EAGLE TWN OF GRAV
81CW0479	1889-12-17	1889-07-31	14457.00000	0	83	1.5800 C	O,TT	A	NEW USE LIM MAY1-OCT15 FOR EAST BRUSH MUNI
81CW0479	1889-12-17	1889-07-31	14457.00000	0	83	0.6200 C	O,TF	1	DRYUP 20AC FOR 36.2AFCU FOR GOLF RESID STORE
81CW0479	1889-12-17	1889-07-31	14457.00000	0	83	1.5800 C	O,TF	1	DRYUP 57AC FOR 103.2AFCU FOR EAST BRUSH MUNI
CA0294	1889-12-17	1889-07-31	14457.00000	0	83	2.2000 C	O	1	
81CW0479	1901-03-05	1883-02-01	16251.12085	0	134	2.6000 C	S,TF	1	DRYUP 91AC FOR 164.7AFCU,EXCESS CREDIT STORED
81CW0479	1901-03-05	1883-02-01	16251.12085	0	134	2.6000 C	S,TT	A	NEW USES LIM MAY1-OCT15 AT EAST BRUSH MUNI
CA0385	1901-03-05	1883-02-01	16251.12085	0	134	2.6000 C	S	1	
80CW0345	1901-03-05	1897-06-10	17328.00000	0	176	1.0000 C	S,TF	1	SECOND ENL DRYUP 50AC FOR 94AFCU 0.24CFS
80CW0345	1901-03-05	1897-06-10	17328.00000	0	176	1.0000 C	S,TT	12A	NEW USE LIM MAY1-OCT15 & 94AFCU SEE SCHED BY
94CW0290	1901-03-05	1897-06-10	17328.00000	0	176	0 C	S,TT	EQ	USE ENLARGEMENT ALLOWS STORAGE OF 94 AF OF
CA0385	1901-03-05	1897-06-10	17328.00000	0	176	5.7000 C	S	1	
CA0565	1911-11-13	1911-07-29	22489.00000	0	298	0.2000 C	S	1	
81CW0479	1936-10-03	1923-09-01	30894.26906	0	455 PP	9.7000 C	S,TT	A	ALL EAST BRUSH MUNI LIM 6.4CFS & 1.0CFS-CU,
81CW0479	1936-10-03	1923-09-01	30894.26906	0	455 PP	9.7000 C	S,TF	1	NO CU CREDIT ASSOCIATED WITH THIS RIGHTS
CA0963	1936-10-03	1923-09-01	30894.26906	0	455 PP	9.7000 C	S	1	
92CW0310	1992-12-31	1989-02-21	51864.50821	0		5.1000 C	S,C	1	*1992 ENL, IRR 178A IN E1/2 SEC10 & SEC11, DIL

Water Rights -- Net Amounts

Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority/Case Number	Rate (CFS)			Volume (Acre-Feet)		
					Absolute	Conditional	AP/EX	Absolute	Conditional	AP/EX
1889-12-17	1889-07-31	14457.00000	0	83	2.2000	0	0	0	0	0
1901-03-05	1883-02-01	16251.12085	0	134	2.6000	0	0	0	0	0
1901-03-05	1897-06-10	17328.00000	0	176	5.7000	0	0	0	0	0
1911-11-13	1911-07-29	22489.00000	0	298	0.2000	0	0	0	0	0
1936-10-03	1923-09-01	30894.26906	0	455 PP	9.7000	0	0	0	0	0
1992-12-31	1989-02-21	51864.50821	0	92CW0310	0	5.1000	0	0	0	0

Irrigated Acres Summary -- Totals From Various Sources

GIS Total (Acres):	395.851	Reported: 2005
Diversion Comments Total (Acres):	200	Reported: 2007
Structure Total (Acres):		Reported:

Irrigated Acres From GIS Data

Year	Land Use	Acres Flood	Acres Furrow	Acres Sprinkler	Acres Drip	Acres Groundwater	Acres Total
1993	***Year Total***	281.81	0	0	0	0	281.81
1993	ALFALFA	4.42	0	0	0	0	4.42
1993	GRASS_PASTURE	277.39	0	0	0	0	277.39
2000	***Year Total***	503.26	0	0	0	0	503.26
2000	GRASS_PASTURE	503.26	0	0	0	0	503.26
2005	***Year Total***	395.85	0	0	0	0	395.85
2005	GRASS_PASTURE	395.85	0	0	0	0	395.85

Diversion Summary in Acre-Feet - Total Water Through Structure

Year	FDU	LDU	DWC	Maxq & Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Total		
1951	1951-07-11	1951-10-20	102	15 07-11	0	0	0	0	0	0	0	0	637	816	364	226	2044		
1952	1952-05-09	1952-10-20	165	6 06-22	0	0	0	0	0	0	141	229	336	274	129	8	1118		
1953	1953-06-29	1953-10-30	124	14 06-29	0	0	0	0	0	0	0	54	766	621	706	296	2442		
1954	1954-05-13	1954-10-25	166	14 05-22	0	0	0	0	0	0	438	627	658	397	342	320	2782		
1955	1955-06-05	1955-10-31	149	9 06-05	0	0	0	0	0	0	0	471	458	342	363	394	2027		
1956	1956-05-20	1956-10-30	164	13 05-20	0	0	0	0	0	0	304	759	623	385	352	325	2747		
1957	1957-05-05	1957-10-29	178	9 07-19	0	0	0	0	0	0	289	281	381	540	483	261	2235		
1958	1958-05-05	1958-10-30	179	11 08-26	0	0	0	0	0	0	526	584	432	357	625	546	3070		
1974	1974-06-19	1974-10-09	113	9 08-19	0	0	0	0	0	0	0	119	307	398	506	152	1482		
1975	1975-06-05	1975-09-08	96	10 06-05	0	0	0	0	0	0	0	526	588	492	127	0	1733		
1976			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1977	1977-05-18	1977-10-31	167	5 05-24	0	0	0	0	0	0	129	228	184	184	171	129	1026		
1978	1978-05-15	1978-10-31	170	12 05-15	0	0	0	0	0	0	405	714	738	738	521	498	3613		
1979	1979-06-06	1979-10-31	148	8 06-06	0	0	0	0	0	0	0	402	498	498	482	205	2084		
1980	1980-05-16	1980-09-10	118	7 05-16	0	0	0	0	0	0	232	434	442	191	26	0	1325		
1981	1981-05-06	1981-09-14	132	10 05-22	0	0	0	0	0	0	485	558	431	320	144	0	1938		
1982	1982-05-24	1982-10-14	144	12 05-24	0	0	0	0	0	0	192	720	744	692	411	192	2951		
1983	1983-05-25	1983-10-31	160	5 05-25	0	0	0	0	0	0	71	303	299	262	224	173	1332		
1984	1984-05-04	1984-10-31	181	14 06-29	0	0	0	0	0	0	444	501	556	287	250	258	2296		
1985	1985-05-16	1985-09-19	127	7 07-09	0	0	0	0	0	0	48	228	344	320	196	0	1136		
1986	1986-06-01	1986-10-31	153	7 06-16	0	0	0	0	0	0	0	363	412	369	156	135	1435		
1987	1987-05-20	1987-09-16	120	5 06-12	0	0	0	0	0	0	109	281	268	170	41	0	870		
1988	1988-05-05	1988-10-25	160	4 07-06	0	0	0	0	0	0	125	154	248	232	178	77	1013		
1989	1989-05-24	1989-10-31	132	16 06-28	0	0	0	0	0	0	135	502	538	60	212	243	1690		
1990	1990-05-25	1990-10-31	160	18 06-05	0	0	0	0	0	0	111	795	640	330	315	169	2360		
1991	1991-05-24	1991-10-31	161	18 06-13	0	0	0	0	0	0	127	801	615	369	282	123	2317		
1992	1992-05-25	1992-10-31	160	18 06-01	0	0	0	0	0	0	111	1071	464	369	119	123	2257		
1993	1993-05-12	1993-10-11	153	20 05-12	0	0	0	0	0	0	793	883	277	229	179	65	2426		
1994	1994-05-03	1994-10-19	170	11 08-24	0	0	0	0	0	0	299	286	289	407	446	113	1840		
1995	1995-04-22	1995-10-28	190	11 06-12	0	0	0	0	0	100	492	589	629	553	464	278	3105		
1996	1996-05-03	1996-10-29	180	12 05-03	0	0	0	0	0	0	690	714	661	508	419	345	3336		
1997	1997-06-10	1997-10-30	143	12 06-10	0	0	0	0	0	0	0	500	674	596	524	476	2770		
1998	1998-05-23	1998-10-29	160	10 05-23	0	0	0	0	0	0	179	449	400	419	417	403	2265		
2001	2001-05-18	2001-10-27	163	8 06-05	0	0	0	0	0	0	50	427	361	307	298	268	1711		
2002	2002-05-23	2002-10-28	159	10 09-13	0	0	0	0	0	0	107	413	452	246	216	167	1601		
2003	2003-05-29	2003-10-27	152	8 05-29	0	0	0	0	0	0	48	453	317	246	238	214	1516		
2004	2004-05-28	2004-10-24	150	9 05-28	0	0	0	0	0	0	67	470	369	70	238	190	1405		
2005	2005-05-24	2005-10-24	154	8 05-24	0	0	0	0	0	0	127	476	492	349	238	190	1872		
2006	2006-05-03	2006-10-25	176	9 06-29	0	0	0	0	0	0	449	467	422	392	331	203	2264		
2007	2007-05-31	2007-10-19	142	9 06-28	0	0	0	0	0	0	16	485	490	447	405	249	2091		
2008	2008-05-06	2008-10-30	166	7 07-08	0	0	0	0	0	0	318	307	333	426	381	381	2146		
2009	2009-05-07	2009-10-07	120	9 05-07	0	0	0	0	0	0	436	401	50	352	321	75	1636		
<i>Minimum:</i>					0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Maximum:</i>					20	0	0	0	0	100	793	1071	766	816	706	546	3613		
<i>Average:</i>					10	0	0	0	0	2	202	453	448	370	306	202	1984		

42.00 years with diversion records

Notes: The average considers all years with diversion records, even if no water is diverted.
 The above summary lists total monthly diversions.
 * = Infrequent Diversion Record. All other values are derived from daily records.
 Average values include infrequent data if infrequent data are the only data for the year.

Diversion Comments

IYR	NUC Code	Acres Irrigated	Comment
1951		378	
1952		378	
1953		378	
1954		378	
1955		378	
1956		378	
1974		378	
1975		378	
1976	Water taken but no data available		
1977		378	
1978		378	
1979		378	
1980		378	
1981		378	
1982		378	
1983		378	
1984		378	
1985		375	
1987		378	
1988		378	
1989		375	
1990		378	
1991		378	
1992		378	
1993		378	
1994		378	
1995		378	
1996		378	
1997		378	
1998		378	
1999	Water available, but not taken	0	WETLANDS STUDY
2000		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY
2001		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2002		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2003		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2004		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2005		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2006		0	ADAMS RIB AUG PLAN NOT IN PLACE. IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2007		200	ADAM'S RIB AUG PLAN NOT IN PLACE, IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2008			ADAM'S RIB AUG PLAN NOT IN PLACE, IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION
2009			ADAM'S RIB AUG PLAN NOT IN PLACE, IRRIGATION ONLY DECREE 81CW479 ALLOWS ALL ORIGINAL IRRIGATION

Note: Diversion comments and reservoir comments may be shown for a structure, if both are available.

Structure Summary Report

HydroBase

State of Colorado

Structure Name: WILKINSON DITCH **Water District:** 37 **Structure ID Number:** 857

Source: BRUSH CREEK

Location: Q10 Q40 Q160 Section Twnshp Range PM
NW NW NE 14 5S 84W S

Distance From Section Lines: From N/S Line: From E/W Line:
UTM Coordinates (NAD 83): Northing (UTM y): 4387469 Easting (UTM x): 347753 Spotted from PLSS distances from section lines

Latitude/Longitude (decimal degrees):

Water Rights Summary:	Total Decreed Rate(s) (CFS):	Absolute: 20.7100	Conditional: 2.0000	AP/EX: 0.0000
	Total Decreed Volume(s) (AF):	Absolute: 0.0000	Conditional: 0.0000	AP/EX: 0.0000

Water Rights -- Transactions

Case Number	Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority Number	Decreed Amount	Adjudication Type	Uses	Action Comment
CA0385	1901-03-05	1882-04-30	16251.11808	0	132	4.8000	C S	1	
CA0385	1901-03-05	1899-04-30	18017.00000	0	187	1.0000	C S	1	FIRST ENL
CA0963	1936-10-03	1923-09-01	30894.26906	0	455	0.4900	C S,C	1	SECOND ENL
CA0963	1936-10-03	1923-09-01	30894.26906	0	455	14.4200	C S	1	SECOND ENL
W0137	1936-10-03	1923-09-01	30894.26906	0	455	0.4900	C S,CA	1	SECOND ENL
92CW0310	1992-12-31	1989-02-21	51864.50821	0		2.0000	C S,C	1	"1992 ENL, IRR 68A IN E1/2 SEC10 & S1/2SW1/4 SEC11,

Water Rights -- Net Amounts

Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority/Case Number	Rate (CFS)			Volume (Acre-Feet)		
					Absolute	Conditional	AP/EX	Absolute	Conditional	AP/EX
1901-03-05	1882-04-30	16251.11808	0	132	4.8000	0	0	0	0	0
1901-03-05	1899-04-30	18017.00000	0	187	1.0000	0	0	0	0	0
1936-10-03	1923-09-01	30894.26906	0	455	14.9100	0	0	0	0	0
1992-12-31	1989-02-21	51864.50821	0	92CW0310	0	2.0000	0	0	0	0

Irrigated Acres Summary -- Totals From Various Sources

GIS Total (Acres):	105.092	Reported: 1993
Diversion Comments Total (Acres):	180	Reported: 2007
Structure Total (Acres):		Reported:

Irrigated Acres From GIS Data

Year	Land Use	Acres Flood	Acres Furrow	Acres Sprinkler	Acres Drip	Acres Groundwater	Acres Total
1993	***Year Total***	105.09	0	0	0	0	105.09
1993	GRASS_PASTURE	105.09	0	0	0	0	105.09

Diversion Summary in Acre-Feet - Total Water Through Structure

Year	FDU	LDU	DWC	Maxq & Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Total
1951	1951-07-11	1951-10-20	102	16 07-11	0	0	0	0	0	0	0	0	683	714	106	79	1582
1952	1952-05-09	1952-10-10	155	19 06-22	0	0	0	0	0	0	196	511	1044	809	818	240	3618
1953	1953-05-22	1953-10-30	162	8 07-23	0	0	0	0	0	0	28	108	486	512	475	215	1824
1955	1955-06-08	1955-10-31	146	18 06-09	0	0	0	0	0	0	0	802	1086	1086	1051	1086	5111
1956	1956-05-15	1956-10-30	169	15 06-30	0	0	0	0	0	0	211	389	693	416	364	336	2410
1957	1957-06-01	1957-10-29	151	19 06-01	0	0	0	0	0	0	0	1129	968	686	583	450	3815
1958	1958-05-09	1958-10-31	176	21 10-24	0	0	0	0	0	0	866	880	1084	1045	1002	1090	5967
1974	1974-05-16	1974-10-09	147	19 06-19	0	0	0	0	0	0	416	1026	801	404	339	102	3088
1975	1975-06-05	1975-10-31	149	18 06-05	0	0	0	0	0	0	0	933	1077	990	692	615	4307
1976	1976-05-13	1976-08-31	111	14 05-13	0	0	0	0	0	0	524	827	855	855	0	0	3060
1977	1977-05-18	1977-10-31	167	14 06-15	0	0	0	0	0	0	235	724	575	325	313	430	2604
1978	1978-05-15	1978-10-31	170	12 05-15	0	0	0	0	0	0	405	714	738	738	421	375	3391
1979	1979-05-24	1979-10-31	161	18 06-06	0	0	0	0	0	0	190	1017	1113	850	613	277	4059
1980	1980-05-16	1980-09-10	118	17 07-23	0	0	0	0	0	0	390	732	837	741	194	0	2895
1981	1981-05-06	1981-09-14	132	21 05-22	0	0	0	0	0	0	864	1180	941	744	336	0	4065
1982	1982-05-24	1982-10-31	161	19 05-24	0	0	0	0	0	0	295	1107	1144	1051	553	363	4513
1983	1983-05-25	1983-10-11	140	13 07-08	0	0	0	0	0	0	157	672	785	720	587	214	3136
1984	1984-05-04	1984-10-31	181	18 06-29	0	0	0	0	0	0	339	409	902	676	613	633	3573
1985	1985-05-16	1985-09-19	127	17 07-09	0	0	0	0	0	0	222	727	911	805	334	0	3000
1986	1986-06-01	1986-09-09	101	17 06-16	0	0	0	0	0	0	0	803	879	838	202	0	2722
1987	1987-05-20	1987-08-25	98	41 07-24	0	0	0	0	0	0	164	904	1868	1041	0	0	3978
1988	1988-05-20	1988-10-12	146	13 06-07	0	0	0	0	0	0	162	709	714	588	379	114	2666
1989	1989-05-24	1989-10-29	159	30 06-13	0	0	0	0	0	0	190	1303	815	412	371	225	3316
1990	1990-05-18	1990-10-18	154	12 06-05	0	0	0	0	0	0	254	698	738	440	267	153	2550
1991	1991-05-25	1991-10-25	154	12 06-17	0	0	0	0	0	0	139	625	738	369	298	198	2366
1992	1992-05-12	1992-10-04	146	10 05-24	0	0	0	0	0	0	349	555	483	350	339	45	2123
1993	1993-05-19	1993-10-11	146	7 06-01	0	0	0	0	0	0	129	415	424	383	298	109	1757
1994	1994-05-03	1994-10-27	178	7 08-22	0	0	0	0	0	0	311	336	350	327	286	257	1867
1995	1995-04-23	1995-10-28	188	6 05-15	0	0	0	0	0	53	348	357	218	369	349	278	1972
1996	1996-05-08	1996-10-28	174	11 06-14	0	0	0	0	0	0	281	506	530	342	321	300	2279
1997	1997-05-19	1997-10-29	164	10 06-22	0	0	0	0	0	0	134	395	615	432	357	345	2279
1998	1998-05-24	1998-10-29	159	7 05-24	0	0	0	0	0	0	103	345	324	307	298	288	1665
2001	2001-05-18	2001-08-20	95	4 05-18	0	0	0	0	0	0	111	238	246	159	0	0	754
2002	2002-05-21	2002-09-12	115	10 05-21	0	0	0	0	0	0	218	595	615	290	138	0	1856
2003	2003-05-29	2003-10-26	151	7 05-29	0	0	0	0	0	0	42	372	277	277	268	232	1467
2004	2004-04-26	2004-08-02	99	7 05-21	0	0	0	0	0	50	351	417	305	16	0	0	1139
2005	2005-05-17	2005-10-14	151	7 05-17	0	0	0	0	0	0	208	381	307	307	298	139	1640
2006	2006-05-03	2006-10-25	176	7 06-29	0	0	0	0	0	0	368	384	423	375	340	258	2148
2007	2007-05-03	2007-10-19	170	10 05-03	0	0	0	0	0	0	558	572	544	503	434	283	2895
2008	2008-05-06	2008-10-30	153	8 07-21	0	0	0	0	0	0	357	342	183	502	343	321	2049
2009	2009-06-01	2009-10-07	95	6 07-28	0	0	0	0	0	0	0	219	48	274	226	53	819
<i>Minimum:</i>					4	0	0	0	0	0	0	0	48	16	0	0	754
<i>Maximum:</i>					41	0	0	0	0	53	866	1303	1868	1086	1051	1090	5967
<i>Average:</i>					14	0	0	0	0	3	247	619	692	563	371	246	2740

41.00 years with diversion records

Notes: The average considers all years with diversion records, even if no water is diverted.
 The above summary lists total monthly diversions.
 * = Infrequent Diversion Record. All other values are derived from daily records.
 Average values include infrequent data if infrequent data are the only data for the year.

Diversion Comments

IYR	NUC Code	Acres Irrigated	Comment
1951		284	
1952		284	
1953		310	
1954		340	
1955		340	
1956		340	
1957		340	
1974		340	
1975		340	
1976		340	
1977		340	
1978		340	
1979		340	
1980		340	
1981		340	
1982		340	
1983		340	
1984		340	
1985		340	
1987		340	
1988		340	
1989		340	
1990		340	
1991		340	
1992		340	
1993		340	
1994		340	
1995		340	
1996		340	
1997		340	
1998		340	
1999	Water available, but not taken	0	WETLANDS STUDY
2000		75	
2004		80	
2005		80	
2006		80	
2007		180	NEW 3' PARSHALL FLUME 2007

Note: Diversion comments and reservoir comments may be shown for a structure, if both are available.

Structure Summary Report

HydroBase

State of Colorado

Structure Name: HERNAGE DITCH **Water District:** 37 **Structure ID Number:** 635

Source: BRUSH CREEK

Location: Q10 Q40 Q160 Section Twnshp Range PM
SW NE NE 9 5S 84W S

Distance From Section Lines: From N/S Line: From E/W Line:

UTM Coordinates (NAD 83): Northing (UTM y): 4388909 Easting (UTM x): 344711.9 Spotted from PLSS distances from section lines

Latitude/Longitude (decimal degrees): 39.635878 -106.809588

Water Rights Summary:	Total Decreed Rate(s) (CFS):	Absolute: 13.8100	Conditional: 0.3300	AP/EX: 0.0000
	Total Decreed Volume(s) (AF):	Absolute: 0.0000	Conditional: 0.0000	AP/EX: 0.0000

Water Rights -- Transactions

Case Number	Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority Number	Decreed Amount	Adjudication Type	Uses	Action Comment
CA0294	1889-12-17	1882-05-01	11809.00000	3	5	2.4000	C O,C	1	
CA0963	1889-12-17	1882-05-01	11809.00000	3	5	2.4000	C O,CA	1	
87CW0386	1889-12-17	1887-03-30	13603.00000	0	50	0.6000	C O,TF	1	DRYUP 21AC FOR 38.1AFCU LIM MAY1-OCT15
87CW0386	1889-12-17	1887-03-30	13603.00000	0	50	0.6000	C O,TT	2348A	DIVR 0.127C TO MUNI RETURN0.473C BLW DITCH
CA0294	1889-12-17	1887-03-30	13603.00000	0	50	1.2000	C O,C	1	
CA0963	1889-12-17	1887-03-30	13603.00000	0	50	1.2000	C O,CA	1	
CA0294	1889-12-17	1889-08-21	14478.00000	0	88	0.2800	C O,C	1	
CA0963	1889-12-17	1889-08-21	14478.00000	0	88	0.2800	C O,CA	1	
CA0294	1889-12-17	1889-10-01	14519.00000	0	91	0.4000	C O,C	1	
CA0963	1889-12-17	1889-10-01	14519.00000	0	91	0.4000	C O,CA	1	
CA0385	1901-03-05	1895-05-03	16559.00000	0	168	0.0344	C S	1	
CA0385	1901-03-05	1900-05-20	18402.00000	0	199	0.2054	C S	1	
CA0963	1936-10-03	1923-09-01	30894.26906	0	455 VV	9.2900	C S	1	
84CW0739	1984-12-31	1983-02-01	48942.48609	0		0.3300	C S,C	123578A	TERRACE ENL, FILLS BRUSH CR TERRACE RES, DIL

Water Rights -- Net Amounts

Adjudication Date	Appropriation Date	Administration Number	Order Number	Priority/Case Number	Rate (CFS)			Volume (Acre-Feet)		
					Absolute	Conditional	AP/EX	Absolute	Conditional	AP/EX
1889-12-17	1882-05-01	11809.00000	3	5	2.4000	0	0	0	0	0
1889-12-17	1887-03-30	13603.00000	0	50	1.2000	0	0	0	0	0
1889-12-17	1889-08-21	14478.00000	0	88	0.2800	0	0	0	0	0
1889-12-17	1889-10-01	14519.00000	0	91	0.4000	0	0	0	0	0
1901-03-05	1895-05-03	16559.00000	0	168	0.0340	0	0	0	0	0
1901-03-05	1900-05-20	18402.00000	0	199	0.2050	0	0	0	0	0
1936-10-03	1923-09-01	30894.26906	0	455 VV	9.2900	0	0	0	0	0
1984-12-31	1983-02-01	48942.48609	0	84CW0739	0	0.3300	0	0	0	0

Irrigated Acres Summary -- Totals From Various Sources

GIS Total (Acres):	138.324	Reported: 2005
Diversion Comments Total (Acres):	0	Reported: 2006
Structure Total (Acres):		Reported:

Irrigated Acres From GIS Data

Year	Land Use	Acres Flood	Acres Furrow	Acres Sprinkler	Acres Drip	Acres Groundwater	Acres Total
1993	***Year Total***	83.17	0	0	0	0	107.32
1993	ALFALFA	12.90	0	0	0	0	37.04
1993	GRASS_PASTURE	70.28	0	0	0	0	70.28
2000	***Year Total***	121.71	0	0	0	0	121.71
2000	GRASS_PASTURE	121.71	0	0	0	0	121.71
2005	***Year Total***	138.32	0	0	0	0	138.32
2005	GRASS_PASTURE	138.32	0	0	0	0	138.32

Diversion Summary in Acre-Feet - Total Water Through Structure

Year	FDU	LDU	DWC	Maxq & Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Total	
1951	1951-07-10	1951-10-20	103	4 08-21	0	0	0	0	0	0	0	0	166	236	245	112	759	
1952	1952-05-06	1952-10-31	179	9 08-22	0	0	0	0	0	0	119	302	377	324	530	289	1940	
1953	1953-05-16	1953-10-30	168	14 06-26	0	0	0	0	0	0	44	206	849	699	314	151	2263	
1954	1954-05-10	1954-10-30	173	8 05-23	0	0	0	0	0	0	206	279	267	266	172	214	1404	
1955	1955-05-17	1955-10-31	168	12 05-17	0	0	0	0	0	0	284	391	362	278	265	144	1724	
1956	1956-04-11	1956-10-31	204	11 06-27	0	0	0	0	0	192	298	339	524	269	191	67	1879	
1957	1957-06-01	1957-10-30	152	14 06-01	0	0	0	0	0	0	0	803	679	170	180	157	1990	
1958	1958-05-15	1958-10-30	158	14 05-15	0	0	0	0	0	0	457	806	354	260	141	188	2206	
1974	1974-05-16	1974-10-10	145	9 06-19	0	0	0	0	0	0	114	345	298	120	256	85	1218	
1975	1975-05-14	1975-10-31	171	1 05-14	0	0	0	0	0	0	50	83	86	86	83	86	475	
1976	1976-05-10	1976-10-31	175	4 07-22	0	0	0	0	0	0	61	83	142	258	250	258	1052	
1977	1977-05-24	1977-10-31	144	4 05-24	0	0	0	0	0	0	68	151	34	100	116	123	592	
1978	1978-05-15	1978-10-31	170	14 05-15	0	0	0	0	0	0	455	803	830	830	356	252	3527	
1979	1979-06-06	1979-10-31	148	7 06-06	0	0	0	0	0	0	0	342	424	363	244	252	1626	
1980	1980-06-19	1980-09-09	83	6 06-19	0	0	0	0	0	0	0	150	387	252	73	0	863	
1981	1981-05-06	1981-09-13	131	10 06-11	0	0	0	0	0	0	443	559	633	407	70	0	2112	
1982	1982-05-19	1982-10-17	152	8 05-19	0	0	0	0	0	0	214	494	467	375	235	78	1862	
1983	1983-05-05	1983-10-31	180	10 06-21	0	0	0	0	0	0	171	327	621	466	175	178	1939	
1984	1984-05-20	1984-10-31	165	11 06-22	0	0	0	0	0	0	119	410	437	233	208	215	1623	
1985	1985-05-23	1985-10-31	162	6 06-21	0	0	0	0	0	0	102	345	258	197	96	92	1090	
1986	1986-05-28	1986-10-31	157	7 05-28	0	0	0	0	0	0	59	440	422	300	141	123	1484	
1987	1987-05-20	1987-09-22	126	9 05-20	0	0	0	0	0	0	202	397	311	181	37	0	1129	
1988	1988-06-07	1988-10-25	131	4 06-29	0	0	0	0	0	0	0	146	150	99	77	57	528	
1989	1989-05-01	1989-10-31	151	8 06-28	0	0	0	0	0	0	177	236	263	163	108	85	1032	
1990	1990-05-25	1990-10-31	146	17 06-05	0	0	0	0	0	0	115	901	516	107	24	101	1763	
1991	1991-05-23	1991-10-31	162	15 06-11	0	0	0	0	0	0	143	754	210	123	30	31	1290	
1992	1992-05-26	1992-10-31	159	10 06-05	0	0	0	0	0	0	95	579	184	31	30	31	950	
1993	1993-05-18	1993-10-11	147	10 06-01	0	0	0	0	0	0	222	595	417	238	179	65	1716	
1995	1995-06-05	1995-10-28	146	2 06-05	0	0	0	0	0	0	0	93	111	87	54	50	395	
1996	1996-05-08	1996-10-29	175	2 06-14	0	0	0	0	0	0	48	86	111	88	69	40	442	
1997	1997-05-19	1997-10-30	165	2 06-05	0	0	0	0	0	0	13	86	98	96	83	83	460	
1998	1998-05-24	1998-10-28	158	1 05-24	0	0	0	0	0	0	16	39	31	31	30	28	174	
2001	2001-05-08	2001-10-30	176	4 07-21	0	0	0	0	0	0	95	119	167	175	149	149	853	
2002	2002-09-09	2002-10-28	50	6 09-13	0	0	0	0	0	0	0	0	0	0	227	222	449	
2003	2003-06-01	2003-07-21	51	4 06-01	0	0	0	0	0	0	0	238	167	0	0	0	405	
2004	2004-05-27	2004-09-26	123	4 05-27	0	0	0	0	0	0	40	238	246	246	206	0	976	
2005	2005-05-11	2005-10-14	157	4 05-11	0	0	0	0	0	0	167	218	159	123	119	56	841	
2006	2006-05-04	2006-10-25	175	4 05-04	0	0	0	0	0	0	228	189	210	171	150	109	1056	
2007	2007-05-31	2007-09-10	103	4 05-31	0	0	0	0	0	0	7	208	215	215	69	0	715	
2008	2008-04-23	2008-09-29	160	3 04-23	0	0	0	0	0	40	154	149	144	110	63	0	660	
2009	2009-05-05	2009-10-07	156	3 05-05	0	0	0	0	0	0	134	149	154	154	149	35	774	
<i>Minimum:</i>				1	0	0	0	0	0	0	0	0	0	0	0	0	0	174
<i>Maximum:</i>				17	0	0	0	0	0	192	457	901	849	830	530	289	3527	
<i>Average:</i>				7	0	0	0	0	0	6	125	319	304	218	151	103	1225	

41.00 years with diversion records

Notes: The average considers all years with diversion records, even if no water is diverted.
 The above summary lists total monthly diversions.
 * = Infrequent Diversion Record. All other values are derived from daily records.
 Average values include infrequent data if infrequent data are the only data for the year.

Diversion Comments

IYR	NUC Code	Acres Irrigated	Comment
1951		210	
1952		210	
1953		210	
1954		210	
1955		210	
1956		210	
1957		210	
1974		210	
1975		210	
1976		210	
1977		210	
1978		210	
1979		210	
1980		210	
1981		210	
1982		210	
1983		210	
1984		210	
1985		210	
1987		210	
1988		210	
1989		115	
1990		210	
1991		210	
1992		210	
1993		210	
1994	Structure not usable	0	
1997		10	
1998		10	
1999	Water available, but not taken	0	
2000	Water available, but not taken	0	
2001		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH ID'S 566, 567 AND 723
2002		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH IDS 566, AND 567
2003		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH IDS 566, AND 567
2004		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH IDS 566, AND 567
2005		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH IDS 566, AND 567
2006		0	CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH NO 1 DITCH AND DITCH NO 2
2007			CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH NO 1 AND DITCH NO 2 ID'S 566
2008			CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH NO 1 AND DITCH NO 2 ID'S 566
2009			CARRIER TO 2ND CHANNEL OF BRUSH CREEK, SUPPLEMENTS FLOW FOR DITCH NO 1 AND DITCH NO 2 ID'S 566

Note: Diversion comments and reservoir comments may be shown for a structure, if both are available.

Diversion Summary in Acre-Feet - Total Water Through Structure

Year	FDU	LDU	DWC	Maxq & Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Total	
1951			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1952	1952-05-08	1952-06-27	51	4 05-08	0	0	0	0	0	0	181	204	0	0	0	0	384	
1953	1953-05-08	1953-07-18	72	0 05-08	0	0	0	0	0	0	10	12	7	0	0	0	29	
1954			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1955	1955-06-30	1955-09-26	89	0 06-30	0	0	0	0	0	0	0	1	18	18	15	0	53	
1956	1956-05-15	1956-08-14	92	1 05-15	0	0	0	0	0	0	44	77	80	36	0	0	237	
1957	1957-05-05	1957-09-09	128	5 06-11	0	0	0	0	0	0	44	204	275	37	11	0	571	
1958	1958-05-05	1958-07-14	71	2 05-05	0	0	0	0	0	0	91	101	47	0	0	0	239	
1974			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1975			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1976			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1977			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1978			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1979			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1980			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1982			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1984	1984-05-20	1984-08-31	104	3 05-20	0	0	0	0	0	0	60	149	61	61	0	0	331	
1985			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1986			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1987	1987-05-20	1987-07-15	57	1 05-20	0	0	0	0	0	0	24	60	30	0	0	0	113	
1988			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1991			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1992			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1993			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1994			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Minimum:</i>				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maximum:</i>				5	0	0	0	0	0	0	181	204	275	61	15	0	0	571
<i>Average:</i>				1	0	0	0	0	0	0	17	30	19	6	1	0	0	73

27.00 years with diversion records

Notes: The average considers all years with diversion records, even if no water is diverted.

The above summary lists total monthly diversions.

* = Infrequent Diversion Record. All other values are derived from daily records.

Average values include infrequent data if infrequent data are the only data for the year.

Diversion Comments

IYR	NUC Code	Acres Irrigated	Comment
1951		54	
1952		54	
1953		64	
1954		85	
1955		85	
1956		85	
1957		85	
1974			NOT USED RECOMMEND FOR ABANDONMENT NO HGT OR PMF
1975			NOT USED RECOMMEND FOR ABANDONMENT
1976	Structure not usable		
1977			NOT USED
1978	Water available, but not taken		
1979	No information available		
1980	No information available		
1981		85	
1982	Structure not usable		
1983	Structure not usable		
1984		80	
1985			STRUCTURE NOT USEABLE
1986			STRUCTURE NOT USABLE
1987		0	IRRIGATED ACREAGE UNDER ID 636
1988	Structure not usable	0	IRRIGATED ACREAGE UNDER ID 636
1989	Structure not usable	0	
1990	Structure not usable	0	
1991	Structure not usable	0	
1992	Structure not usable	0	
1993	Structure not usable	0	
1994	Structure not usable	0	
1995	Structure not usable	0	
1996	Structure not usable	0	
1997	Structure not usable	0	
1998	Structure not usable	0	
1999	Structure not usable	0	
2000	Structure not usable	0	2000 ABANDONMENT LIST
2001	Structure not usable	0	2000 ABANDONMENT LIST
2002	Structure not usable	0	2000 ABANDONMENT LIST
2003	Structure not usable	0	2000 ABANDONMENT LIST
2004	Structure not usable	0	2000 ABANDONMENT LIST
2005	Structure not usable	0	2000 ABANDONMENT LIST
2006	Structure not usable	0	2000 ABANDONMENT LIST
2007	Structure not usable		NO LONGER EXISTS
2008	Structure not usable		NO LONGER EXISTS
2009	Structure not usable		NO LONGER EXISTS
2010	Structure not usable		NO LONGER EXISTS

Note: Diversion comments and reservoir comments may be shown for a structure, if both are available.

ATTACHMENT 2
 BLANEY - CRIDDLE CONSUMPTIVE USE CALCULATIONS
 BASED ON POCHOP METHOD FOR BLUEGRASS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Month	Days	Mean Temp (F)	% of Ann. Daylight Hours	Initial Growth Coeff. K(c)	Adjusted Growth Coeff. K(c)	Temp. Coeff. K(t)	Potential Cons. Use (in)	Total Precip. (in)	Effective Precip. (in)	Net Irrigation Requirement (in)	Net Irrigation Requirement (ft)
April	5	41.5	1.53	0.970	1.032	0.786	0.51	0.13	0.03	0.49	0.041
May	31	51.0	9.95	1.000	1.064	0.817	4.42	0.85	0.70	3.72	0.310
June	30	59.5	10.03	1.100	1.156	0.845	5.83	0.87	0.77	5.06	0.422
July	31	66.0	10.16	1.060	1.114	0.867	6.47	1.18	1.07	5.40	0.450
August	31	63.5	9.51	0.980	1.030	0.858	5.34	1.07	0.92	4.42	0.368
September	30	56.0	8.38	0.970	1.020	0.834	3.99	1.12	0.89	3.10	0.258
October	14	44.5	3.55	0.890	0.947	0.796	1.19	0.42	0.27	0.92	0.076
Total =	172						27.76	5.65	4.65	23.11	1.926

(1) Total Growing Season (Apr 25 - Oct 14)	(6) Temperature Coefficient based on Pochop method
(2) Eagle Weather Station	(7) Columns (2)*(3)*(5)*(6)/100
(3) 39 degrees latitude adj. for (1)	(8) Eagle Weather Station
(4) Based on Pochop Method for bluegrass	(9) SCS Technical Release #21, Sept. 1970
(5) Elevation correction for 6650 feet based on Pochop correction factor	(10) Consumptive Use minus Effective Ppt., cols (7)-(9)
	(11) Column 10 expressed in feet