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# UPPER GREEN WATERSHED STUDY LEVEL I APPENDIX



# **Wyoming Water Development Commission**



# **Sublette County Conservation District**

### Prepared by:



SUNRISE

47 E. 4<sup>th</sup> Avenue Afton, WY 83110 Tel: (307) 885-8500 Fax: (307) 885-8501

140 East Broadway, Suite 23 Jackson, WY 83002 Tel: (307) 733-4216 Fax: (307) 733-1245

# UPPER GREEN WATERSHED STUDY LEVEL I

For



# **Wyoming Water Development Commission**



# **Sublette County Conservation District**

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### **APPENDIX A**

## **UPLAND WATER DEVELOPMENT PROJECTS**

Poole Slough – Albert Sommers

Barney

Borhoff

**Budd Ranches** 

**Corbin McGinnis** 

**Cottonwood Ranches** 

DH Budd

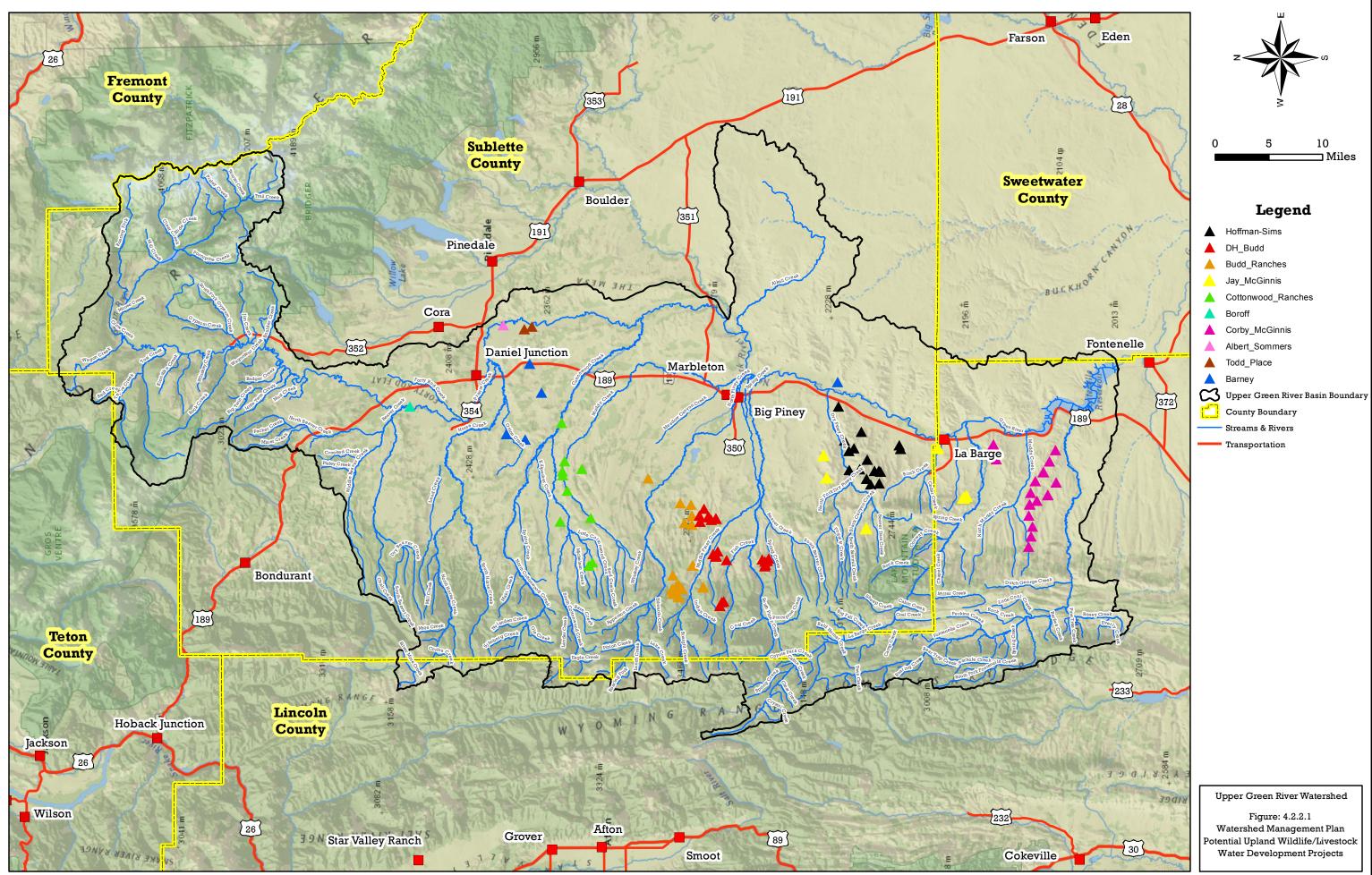
**Hoffman-Sims** 

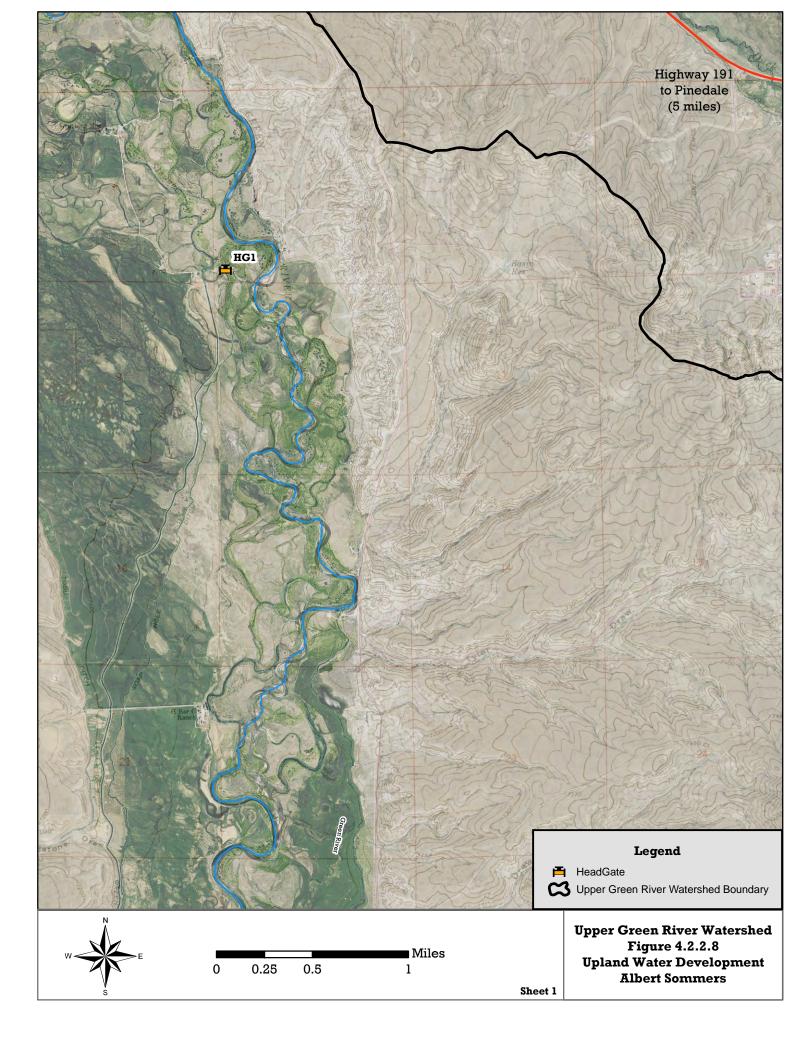
Jay McGinnis

**Todd Place** 

Joc Saxton

Wapika Ranches





#### Upper Green Watershed Study Level I Irrigation System Rehabilitation Engineer's Opinion of Probable Construction Costs



 Owner/Operator
 Abert Sommers and Etal.

 Site Name
 Poole Slough

 Type Of Project
 Reconstruct Diversion - Concrete Check Structure

 Notes/Description
 Name: Poole Slough Check Structure

Location:-109.977522, 42.8528

Description: The Poole Slough supplies water from the Green River to the a headgate at this location. There is a rock check structure built across the slough at this point to back water up and into the diversion struture. During higher flows the rock check structure collapses and requires reconstruction to maintain the pool elevation sufficient to supply the headgate.

Proposed Project: The proposed project is to reconstruct the rock structure with larger angular rock or replace the rock with a concrete check weir. The concrete structure will be outfitted with weir boards arranged in two 7' bays for a total of 14' of overflow area. The replacement structure will be designed to pass flows by overtopping to preserve the channel in its present location.

CONSTRO					
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Temporary Flow Control	1	LS	\$5,000.00	\$5,000
2	Dewatering	1	LS	\$3,000.00	\$3,000
3	Excavation	200	CY	\$18.00	\$3,600
4	Concrete Footing (10' wide x 50' long)	20	CY	\$300.00	\$6,000
5	Concrete Wall (6' tall x 48' long)	11	CY	\$350.00	\$3,850
6	Weir Slots	4	Each	\$600.00	\$2,400
7	7' Weir Boards	4	Each	\$25.00	\$100
8	Backfill (Native)	100	CY	\$12.00	\$1,200
9	18" Riprap Backfill/Slope Protection	110	CY	\$40.00	\$4,400
			Su	btotal Construction	\$29,550

# ITEMIZED COST ESTIMATE for CONCRETE STRUCTURE CONSTRUCTION COSTS

INCIDENTAL PROJECT COSTS

Construction Permits	\$200
Performance Bond	\$300
Insurance	\$200
15% O&P	\$4,433
Subtotal	\$5,133
Subtotal	\$34,683
Construction Engineering @ 10% of Subtotal #1	\$3,468
Subtotal	\$38,151
Contingency @ 15% of Subtotal #2	\$5,723
Total Construction Cost	\$43,874
Preparation of Final Designs and Specifications	\$3,949
Permitting @ 8% of Project Cost	\$3,510
Legal @ 4% of Project Cost	\$1,755
Environmental Study	\$4,000

Total Project Cost \$57,088

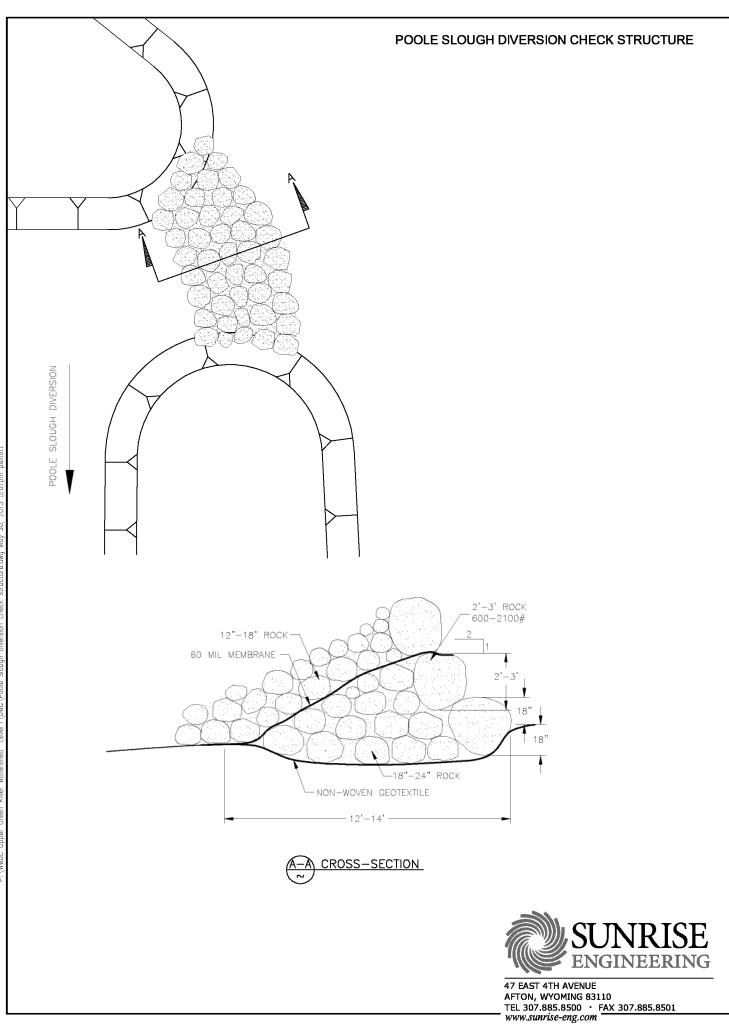
Upper Green Watershed Study Level I Irrigation System Rehabilitation

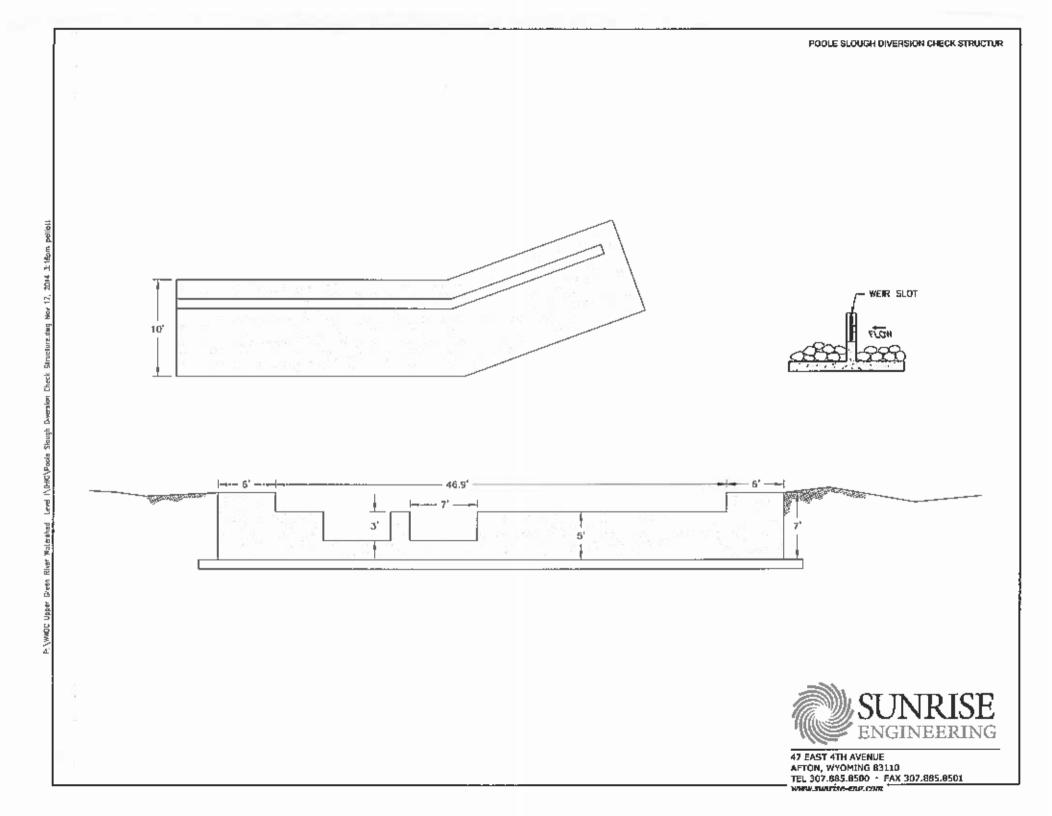
### Photographs

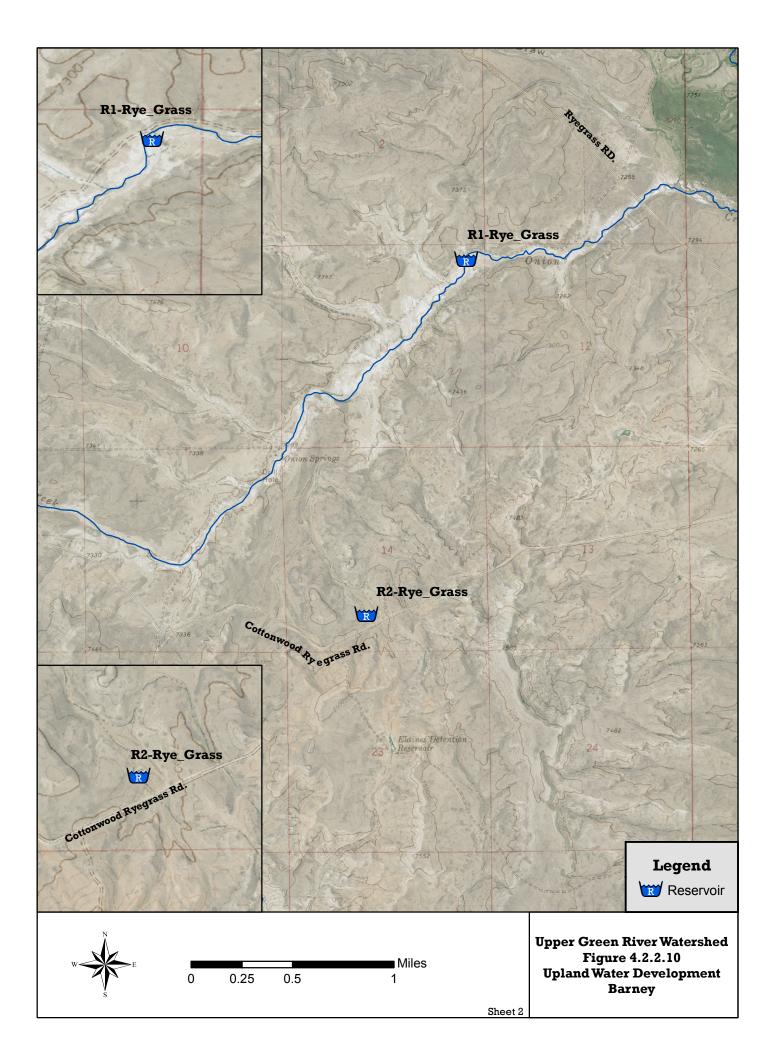
Abert Sommers and Etal. Poole Slough Location:-109.977522, 42.8528



Rock diversion dam to be replaced









Owner/OperatorBill BarneySite NameR1-Rye GrassType Of ProjectReservoir Rehab of DamNotes/DescriptionName: R1-Rye Grass

Location: -110.176833, 42.850333

Description: This reservoir is in need of repair to the dam. The dam is approximately 450' long with a maximum height of 10' to 12'. The pool area is rougly 350' x 550'.

Proposed Project: The reservoir project would consist of reconstructing a low level outlet, and emergency spillway. The upstream dam face would be cleared and grubbed and the breached area would be excavated and reconstructed. The entire upstream face would then receive a low permeability layer of imported clay followed by a protective layer of native material.

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Clearing and Grubbing and Excavation	300	CY	\$10.00	\$3,000
2	Excavate and Replace Damaged Dam Sections	900	CY	\$8.00	\$7,200
3	Grade and Contour Upstream Face	1,800	SY	\$6.00	\$10,800
4	Import Clay Liner Material for Up Stream Face	300	CY	\$35.00	\$10,500
5	Borrow Random Fill Outter Shell (pool area)	600	CY	\$10.00	\$6,000
6	Low Level Outlet/Pipe Intake Structure	1	LS	\$12,000.00	\$12,000
7	Emergency Overflow Rip Rap	60	CY	\$50.00	\$3,000
8	Compaction & Material Testing	1	LS	\$3,000.00	\$3,000
9	Construction Access Road Improvements	1	LS	\$3,000.00	\$3,000
10	Reseeding	30,000	SF	\$0.10	\$3,000
11	Rock Access Ramps	100	CY	\$40.00	\$4,000
			C	onstruction Total	\$65,500

#### CONSTRUCTION COSTS

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$400 \$700 \$400 \$9,825 <b>\$6,012</b>
Subtotal	\$71,512
Construction Engineering @ 10% of Subtotal #1	\$7,151
Subtotal	\$78,663
Contingency @ 15% of Subtotal #2	\$11,799
Total Construction Cost	\$90,462

- Preparation of Final Designs and Specifications \$8,000
  - Permitting @ 3% of Project Cost \$2,720
    - Legal @ 4% of Project Cost \$3,620 Environmental Study \$5,000
      - Total Project Cost \$109,802



Owner/OperatorBill BarneySite NameR2-Rye GrassType Of ProjectReservoir Liner RehabNotes/DescriptionName: R2-Rye Grass

Location: -110.186867, 42.825033

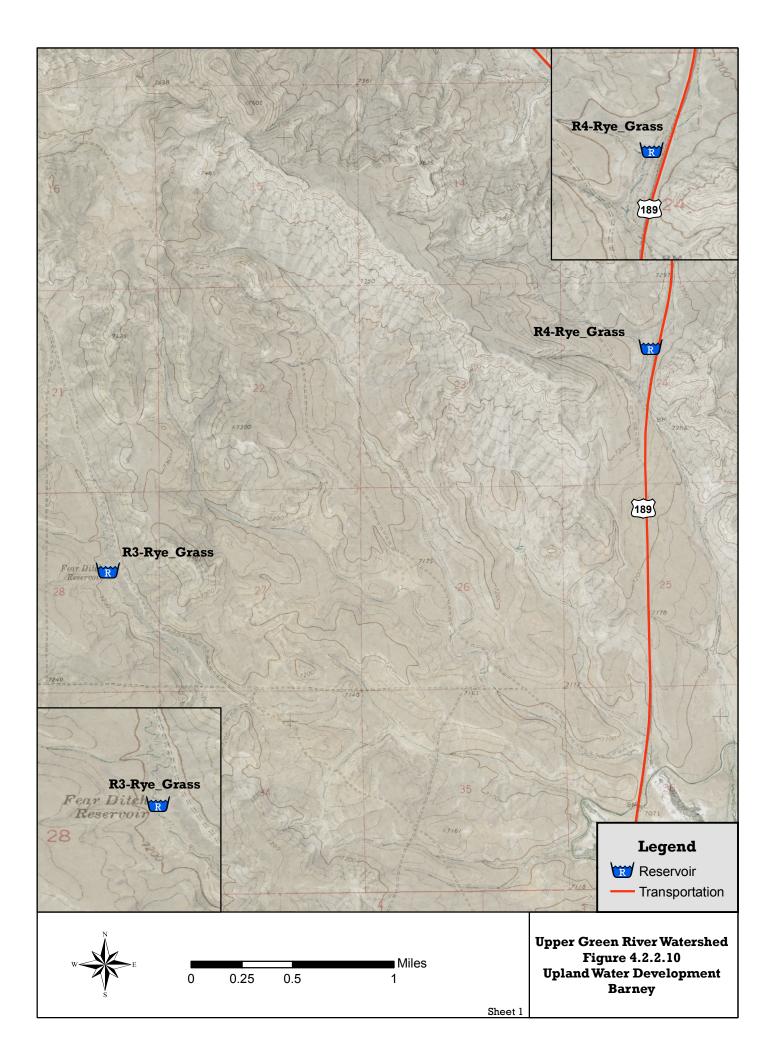
Description: This small flow through pond is in need of a liner to prevent seepage. It is located about 350' off of County Road 117.

Proposed Project: The project entails a new bentonite liner for the roughly 70' x 90' pond. The pond presently approximates the shape of a kidney bean.

CONSTRUCTION COSTS					
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Clearing and Grubbing and Excavation for Liner	350	CY	\$10.00	
2	Bentonite Liner Material	150	CY	\$25.00	\$3,750
3	Borrow Random Cover over Bentonite (pool area)	270	CY	\$10.00	\$2,700
4	Construction Access Road Improvements	1	LS	\$500.00	\$500
5	Reseeding Acess Road	3,600	SF	\$0.10	\$360
6	Rock Access Ramp	20	CY	\$40.00	\$800
				Construction Total	\$11.610

	<b>Construction Permits</b>	\$100
	Performance Bond	\$200
	Insurance	\$100
	Insurance	\$1,742
	Subtotal	\$6,012
<b>Construction Permits</b>		
Performance Bond	Subtotal	\$17,622
Insurance		
Construction Engineering	@ 10% of Subtotal #1	\$1,762

- Subtotal \$19,384
- Contingency @ 15% of Subtotal #2 \$2,908
  - Total Construction Cost \$22,291
- Preparation of Final Designs and Specifications \$1,790 Permitting @ 3% of Project Cost \$670
  - Legal @ 4% of Project Cost \$900
    - Environmental Study \$2,000
      - Total Project Cost \$27,651





Owner/OperatorBill BarneySite NameR3-Rye GrassType Of ProjectReservoir Liner RehabNotes/DescriptionName: R3-Rye Grass

Location: -110.101600, 42.802483

Description: This small flow through reservoir is created by a 250' long dam. The pool area is about 500' long with the upper 2/3 winding in shape. The pool area is in need of a liner to prevent seepage.

Proposed Project: The project entails a new bentonite liner. We recommend the liner be installed in the lower 1/3 of the length of the pool area and that the lower pool area be excavated a few feet prior to liner placement.

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Clearing and Grubbing and Excavation for Liner	2,500	CY	\$10.00	\$25,000
2	Bentonite Liner Material	500	CY	\$25.00	\$12,500
3	Borrow Random Cover over Bentonite (pool area)	1,000	CY	\$10.00	\$10,000
4	Construction Access Road Improvements	1	LS	\$3,000.00	\$3,000
5	Reseeding	4,000	SF	\$0.10	\$400
6	Rock Access Ramp	20	CY	\$40.00	\$800
			C	Construction Total	\$51,700

Construction Permits Performance Bond Insurance Insurance	\$300 \$600 \$300 \$7,755
Subtotal	\$6,012
Construction Permits	AF7 742
Performance Bond Subtotal	\$57,712
Insurance	65 774
Construction Engineering @ 10% of Subtotal #1	\$5,771
Subtotal	\$63,483
Contingency @ 15% of Subtotal #2	\$9,522
Total Construction Cost	\$73,005
	ĆF 050

- Preparation of Final Designs and Specifications \$5,850 Permitting @ 3% of Project Cost \$2,200
  - Legal @ 4% of Project Cost \$2,930
    - Environmental Study \$4,000
      - Total Project Cost \$87,985



Owner/OperatorBill BarneySite NameR4-Rye GrassType Of ProjectReservoir Liner RehabNotes/DescriptionName: R4-Rye Grass

Location: -110.048667, 42.818017

Description: This small flow through reservoir is created by a 260' long dam. The pool area is about 220' long and triangular in shape. The pool area is in need of a liner to prevent seepage. The project is located adjacent to Highway 189.

Proposed Project: The project entails a new bentonite liner. We recommend the liner be installed in the lower 1/3 of the length of the pool area and that the lower pool area be excavated a few feet prior to liner placement.

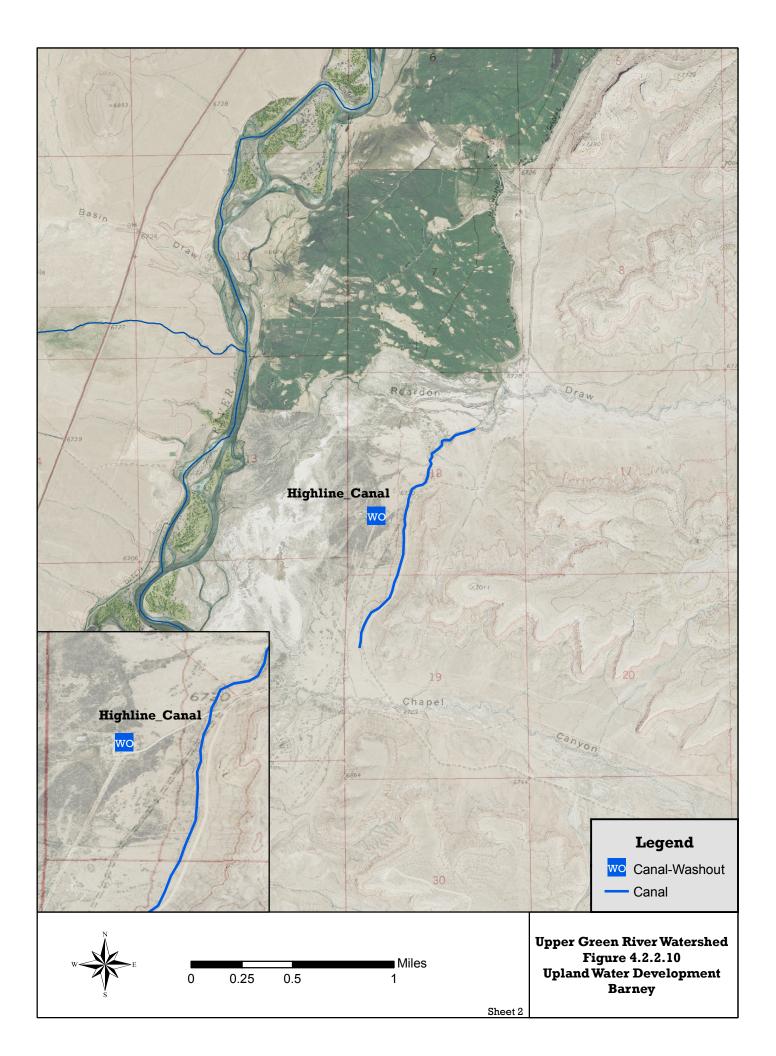
CONSTRUCTION COSTS					
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Clearing and Grubbing and Excavation for Liner	3,000	CY	\$10.00	\$30,000
2	Bentonite Liner Material	550	CY	\$25.00	\$13,750
3	Borrow Random Cover over Bentonite (pool area)	1,100	CY	\$10.00	\$11,000
4	Construction Access Road Improvements	1	LS	\$2,000.00	\$2,000
5	Traffic Control Signage	1	LS	\$800.00	\$800
6	Reseeding	4,000	SF	\$0.10	\$400
7	Rock Access Ramp	20	CY	\$40.00	\$800
			C	Construction Total	\$58,750

#### INCIDENTAL PROJECT COSTS

#### Construction Permits

	Performance Bond	\$300
	Insurance	\$600
	Insurance	\$300
	15% O&P	\$8,813
Construction Permits	Subtotal	\$6,012
Performance Bond		
Insurance	Subtotal	\$64,762

- Construction Engineering @ 10% of Subtotal #1 \$6,476
  - Subtotal \$71,238
  - Contingency @ 15% of Subtotal #2 \$10,686
    - Total Construction Cost \$81,923
- Preparation of Final Designs and Specifications \$2,460
  - Permitting @ 3% of Project Cost \$3,280
    - Legal @ 4% of Project Cost \$4,000
      - Environmental Study \$5,000
        - Total Project Cost \$96,663





Owner/OperatorBill BarneySite NameHighline CanalType Of ProjectCanal Repair (Washout)Notes/DescriptionName: Highline Canal

Location: -110.088083, 42.404283

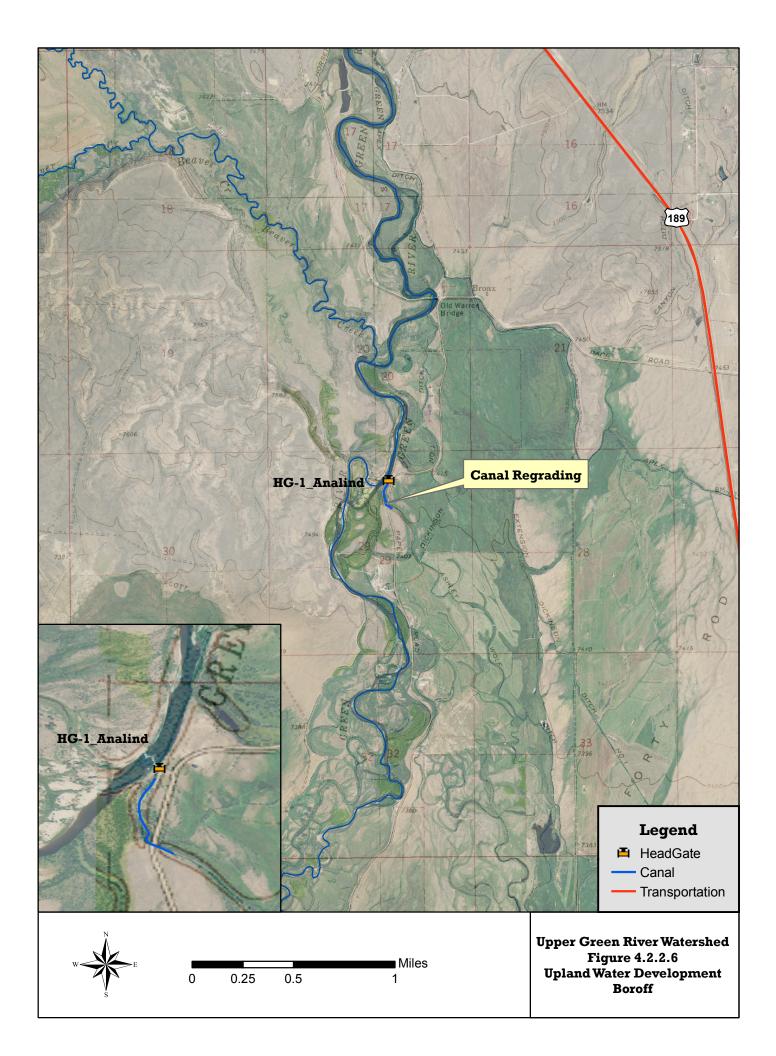
Description: This section of the Highline Canal washed out and needs to be repaired.

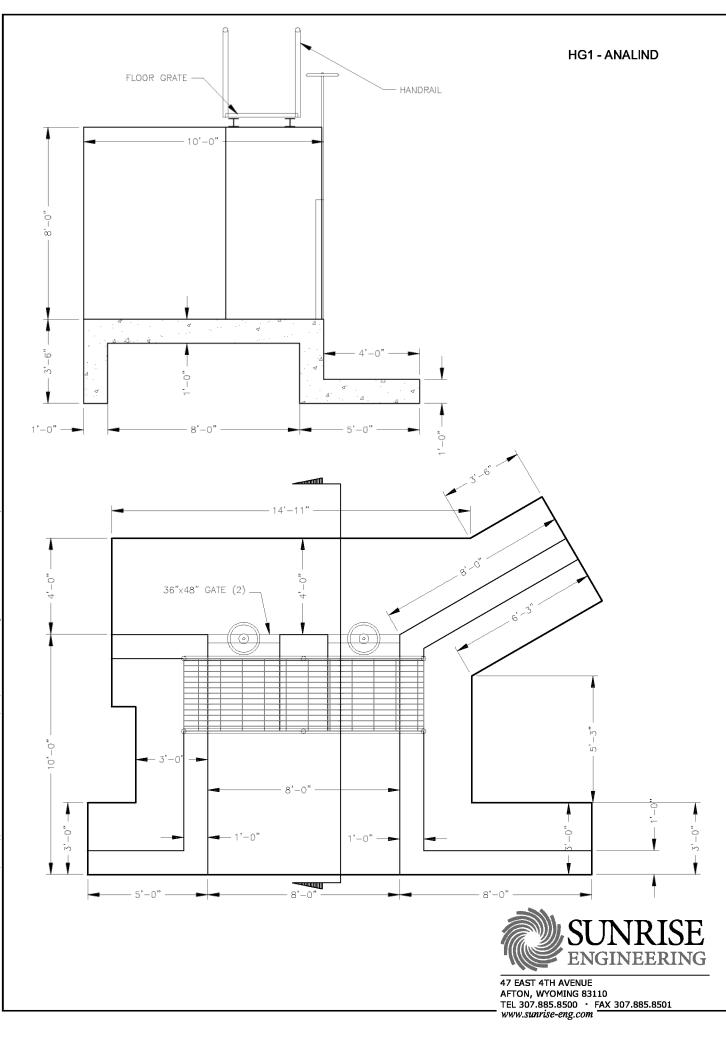
Proposed Project: This project will repair the canal berm and line a short 200' stretch of the canal in this area.

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Clearing and Grubbing and Excavation for repair	100	CY	\$10.00	\$1,000
2	Import Embankment Material	120	CY	\$20.00	\$2,400
3	Bentonite Liner Material	60	CY	\$25.00	\$1,500
4	Borrow Random Cover over Bentonite (pool area)	1,100	CY	\$10.00	\$11,000
5	Reseeding	2,000	SF	\$0.10	\$200
			C	Construction Total	\$16,100

- \$100 **Construction Permits** Performance Bond \$200 \$100 Insurance Insurance \$2,415 Subtotal \$6,012 **Construction Permits** \$22,112 Performance Bond Subtotal Insurance Construction Engineering @ 10% of Subtotal #1 \$2,211 Subtotal \$24,323 Contingency @ 15% of Subtotal #2 \$3,648 **Total Construction Cost** \$27,971
- Preparation of Final Designs and Specifications \$2,240 Permitting @ 3% of Project Cost \$840
  - Legal @ 4% of Project Cost \$1,120
    - Environmental Study \$0
      - Total Project Cost \$32,171







 Owner/Operator
 Jon Boroff

 Site Name
 HG-1 Analind

 Type Of Project
 Diversion

 Notes/Description
 Name: Diversion

Location: 42° 42' 46.78"N, 110° 07' 28.30"W

Description: This site on the east bank of the main stem of the Green River is a 6' wide x 8' tall timber diverison structure. It delivers water to the Analind ditch at approximately 15 to 30 cfs. The structure works well in higher flows, however in early spring and in dryer low flow years the structure sits slightly high and relies on a boulder check structure to keep water flowing in the ditch. The check structure is breached in many years leaving the gate dry.

Proposed Project: The project includes lowering the structure to some degree in relation to the river as allowed by the ditch grade. The main project components include:

- 1) Construct new concrete headwall and tailwater training walls
- 2) Install two 48" slide gates
- 3) Reinforce the River check structure with additional boulders
- 4) Regrade the ditch for a distance of about 650 feet

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Demolition and Removal of Old Structure and Grading	1	LS	\$3,000.00	\$3,000
2	Footing and Turndown	12	CY	\$300.00	\$3,600
3	Vertical Walls	16	CY	\$400.00	\$6,400
4	Stop Log Slots	1	LS	\$500.00	\$500
5	36" x 48" Slide Gates	2	Each	\$1,800.00	\$3,600
6	Backfil New Structure	1	LS	\$800.00	\$800
7	Repair Rock Check Structure	1	LS	\$4,000.00	\$4,000
8	Regrade Ditch	650	LF	\$5.00	\$3,250
9	6"-12" Rip Rap	17	CY	\$125.00	\$2,125
	Construction		uction Total	\$27,275	

#### INCIDENTAL PROJECT COSTS

Construction Permits	\$200
Performance Bond	\$300
Insurance	\$200
15% O&P	\$4,091
Subtotal	\$4,791
Subtotal	\$32,066
Construction Engineering @ 10% of Subtotal #1	\$3,207
Subtotal	\$35,273
Contingency @ 15% of Subtotal #2	\$5,291
Total Construction Cost	\$40,564
Preparation of Final Designs and Specifications	\$3,245
Permitting @ 5% of Project Cost	\$2.028

Permitting @ 5% of Project Cost \$2,028 Legal @ 4% of Project Cost \$1,623 Environmental Study \$4,000

- Environmental Study \$4,000 Total Project Cost \$51,460
- Total Project Cost

Upper Green Watershed Study Level I Irrigation System Rehabilitation

### Photographs

Jon Boroff HG-1 Analind



Interior of Headgate



Upstream End of Headgate



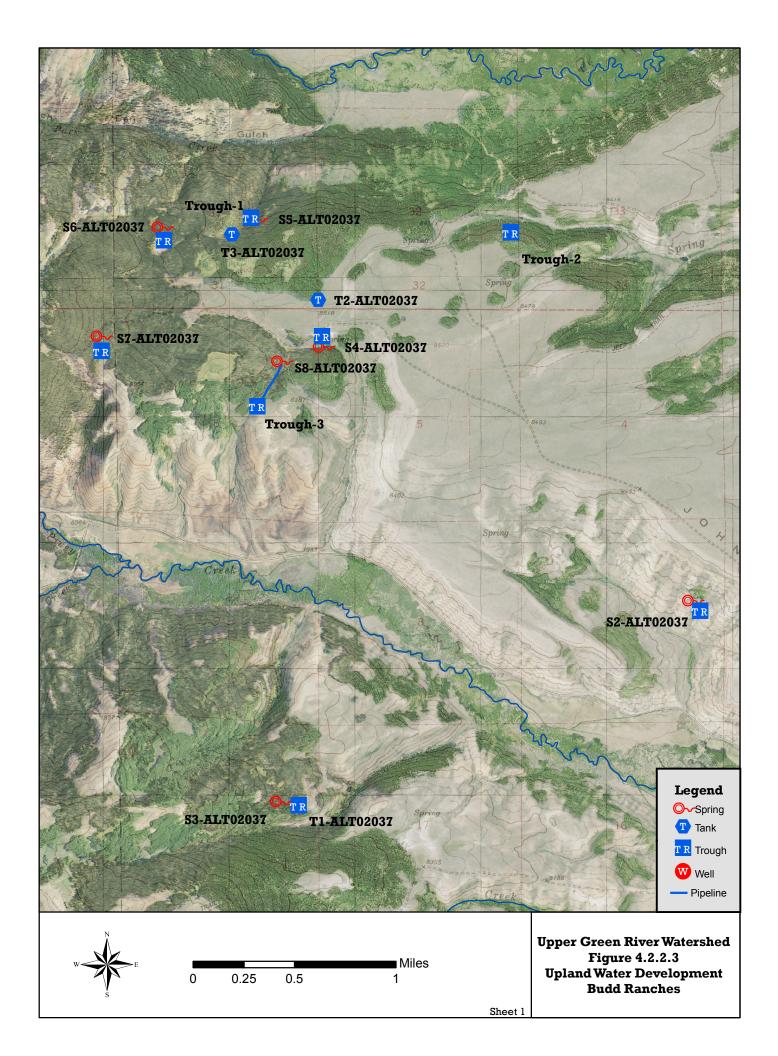
Sample Replacement Headgate



Downstream End of Headgate



Rock Push up Dam





Owner/Operator Site Name Type Of Project Notes/Description

#### Budd Ranches S2-ALT02037 Spring Name: Spring Site S2-ALT02037

Location: 42° 36' 06"N, 110° 25' 10"W Description: This is a damaged spring site that requires complete redevelopment and reconstruction. A storage tank is in place, however a new spring box, collection lines, and rectangular trough is required. This was a lower priority project at the time of the visit.

Proposed Project: The proposed project at this site is to redevelop the spring with new collection lines, a new collection box, new outlet piping to the tank, new piping to the trough and new float control valves in the trough. Typically this site operates year round with a flow through trough.

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

14		Our stilles			<b>T</b>
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development (taken from cost details)	1	LS	\$3,302.50	\$3,303
2	Stock Tank (taken from cost details)	1	LS	\$1,934.00	\$1,934
3	2" HDPE Piping	400	LF	\$6.00	\$2,400
		Subtota	l Spring	Construction	\$7,637

Performance Bond	\$100
Insurance	\$100
15% O&P	\$1,150
Subtotal	\$9,087

- Construction Engineering @ 10% of Subtotal #1 \$909
  - Subtotal \$9,995
  - Contingency @ 15% of Subtotal #2 \$1,499
    - Total Construction Cost \$11,494
- Preparation of Final Designs and Specifications\$920Permitting @ 3% of Project Cost\$345Legal @ 4% of Project Cost\$460Environmental Study\$2,500Total Project Cost\$15,719

Budd Ranches



Owner/Operator Site Name Type Of Project Notes/Description

S3-ALT02037 Spring, Tank Name: Spring Site S3-ALT02037 Location: 42° 35' 15"N, 110° 27' 34"W (Spring); 42° 35' 14"N, 110° 27' 28"W (Tank 1); 42° 35' 24"N, 110° 27' 20"W (Tank#2)

Description: The spring feeds both tanks. The pipe and spring box were damaged by the 2012 Fontenelle fire and need replacement. **This is a high priority project.** 

Proposed Project: The proposed project is to install a new spring box with spring collection lines, new pipe to the tanks, and manual values to allow routing of flow to one or both tanks.

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

contorneo	CTION COSTS FER SFRING				
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development (taken from cost details)	1	LS	\$3,302.50	\$3,303
2	Stock Tank (taken from cost details)	2	LS	\$1,934.00	\$3,868
3	1-1/2" HDPE Piping (surface)	1,900	LF	\$2.00	\$3,800
		Subtota	al Spring	Construction	\$10,971

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$100 \$200 \$100 \$1,650 <b>\$13,021</b>
Construction Engineering @ 10% of Subtotal #1 Subtotal	\$1,302 <b>\$14,323</b>
Contingency @ 15% of Subtotal #2	\$2,148
Total Construction Cost	\$16,471
Preparation of Final Designs and Specifications Permitting @ 3% of Project Cost Legal @ 4% of Project Cost Environmental Study <b>Total Project Cost</b>	\$1,318 \$494 \$659 \$2,500 <b>\$21,442</b>



Owner/Operator Site Name Type Of Project Notes/Description Budd Ranches S4-ALT02037 Spring Name: Spring Site S4-ALT02037 Location: 42° 37' 12"N,110° 27' 18"W

Description: This is spring and tank site with tank in place along with deteriorated spring box. This is a lower priority project.

Proposed Project: The proposed project at this site is to redevelop the spring with new collection lines, a new collection box, new outlet piping to the tank.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development (taken from cost details)	1	LS	\$3,302.50	\$3,303
2	2" HDPE Piping	200	LF	\$6.00	\$1,200
		Sub	total Spr	ing Construction	\$4,503

Construction Permits	\$100
Performance Bond	\$100
Insurance	\$100
15% O&P	\$680
Subtotal	\$980
Subtotal	\$5,483
Construction Engineering @ 10% of Subtotal #1	\$548
Subtotal	\$6,031
Contingency @ 15% of Subtotal #2	\$905
Total Construction Cost	\$6,935
Preparation of Final Designs and Specifications	\$555
Dormitting @ 29/ of Droject Cost	6200

Total Project Cost	\$9,476
Environmental Study	\$1,500
Legal @ 4% of Project Cost	\$277
Permitting @ 3% of Project Cost	\$208
Preparation of Final Designs and Specifications	\$555

**Budd Ranches** 



Owner/Operator Site Name Type Of Project Notes/Description

S5-ALT02037 Spring Name: Spring Site S5-ALT02037 Location: 42° 37' 45"N, 110° 27' 41"W (Spring); 42° 37' 41"N, 110° 27' 50"W (Stock Tank)

Description: This is spring and tank site in need of a new spring box, storage tank and associated piping. This is a high priority project.

Proposed Project: The proposed project at this site is to redevelop the spring with new collection lines, a new collection box, new outlet piping to the tank and a new stock tank.

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

Description	Quantity	Unit	Unit Cost	Total Cost
Spring Development (taken from cost details)	1	LS	\$3,302.50	\$3,303
Stock Tank (taken from cost details)	2	LS	\$1,934.00	\$3,868
2" HDPE Piping	1,500	LF	\$6.00	\$9,000
	Subt	total Spr	ing Construction	\$16,171
	Description Spring Development (taken from cost details) Stock Tank (taken from cost details)	Description         Quantity           Spring Development (taken from cost details)         1           Stock Tank (taken from cost details)         2           2" HDPE Piping         1,500	Description         Quantity         Unit           Spring Development (taken from cost details)         1         LS           Stock Tank (taken from cost details)         2         LS           2" HDPE Piping         1,500         LF	DescriptionQuantityUnitUnit CostSpring Development (taken from cost details)1LS\$3,302.50Stock Tank (taken from cost details)2LS\$1,934.00

Construction Permits	\$100
Performance Bond	\$200
Insurance	\$100
15% O&P	\$2,430
Subtotal	\$2,830
Subtotal	\$19,001
Construction Engineering @ 10% of Subtotal #1	\$1,900
Subtotal	\$20,901
Contingency @ 15% of Subtotal #2	\$3,135
Total Construction Cost	\$24,036
Preparation of Final Designs and Specifications	\$1,923

Total Project Cost	\$30,141
Environmental Study	\$2,500
Legal @ 4% of Project Cost	\$961
Permitting @ 3% of Project Cost	\$721
Preparation of Final Designs and Specifications	Ş1,923

### Upper Green Watershed Study Level I Upland Water Development Engineer's Opinion of Probable Construction Costs



Owner/Operator Site Name Type Of Project Notes/Description Budd Ranches S6-ALT02037; S7-ALT02037 Spring Name: Spring Site S6-ALT02037 & S7-ALT02037 Location: 42° 37' 43"N, 110° 28' 14"W (Spring); 42° 37' 15"N, 110° 28' 9.8"W (Spring)

Description: These two sites are seeps that could be developed into a spring source. At present no development has occurred.

Proposed Project: The proposed project at these sites is to develop the spring with collection trenches, geotextile, new collection lines, a new collection box, new outlet piping to a tank and new stock troughs.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development (taken from cost details)	2	LS	\$3,302.50	\$6,605
2	Stock Tank (taken from cost details)	2	LS	\$1,934.00	\$3,868
3	1-1/2" HDPE Piping	200	LF	\$5.00	\$1,000
		Subt	total Spr	ing Construction	\$11,473

Construction Permits	\$100
Performance Bond	\$200
Insurance	\$100
15% O&P	\$1,730
Subtotal	\$2,130
Subtotal	\$13,603
Construction Engineering @ 10% of Subtotal #1	\$1,360
Subtotal	\$14,963
Contingency @ 15% of Subtotal #2	\$2,244
Total Construction Cost	\$17,208
Preparation of Final Designs and Specifications	\$1,377
Dermitting @ 2% of Droject Cost	¢1,577

Total Project Cost	\$23.289
Environmental Study	\$3,500
Legal @ 4% of Project Cost	\$688
Permitting @ 3% of Project Cost	\$516
Preparation of Final Designs and Specifications	\$1,377



Owner/OperatorBudd RanchesSite NameS8-ALT02037Type Of ProjectSpringNotes/DescriptionName: Spring Site S8-ALT02037Location: 42° 37' 8.3"N, 110° 27' 32.6"W (Spring); 42° 33' 56.8"N, 110° 27' 41.5"W (Trough)

Description: This site is a spring that could be developed and piped soutwest to an area lacking water. At present, no development has occurred.

Proposed Project: The proposed project at these sites is to develop the spring with collection trenches, geotextile, new collection lines, a new collection box, new outlet piping to a tank and new stock troughs.

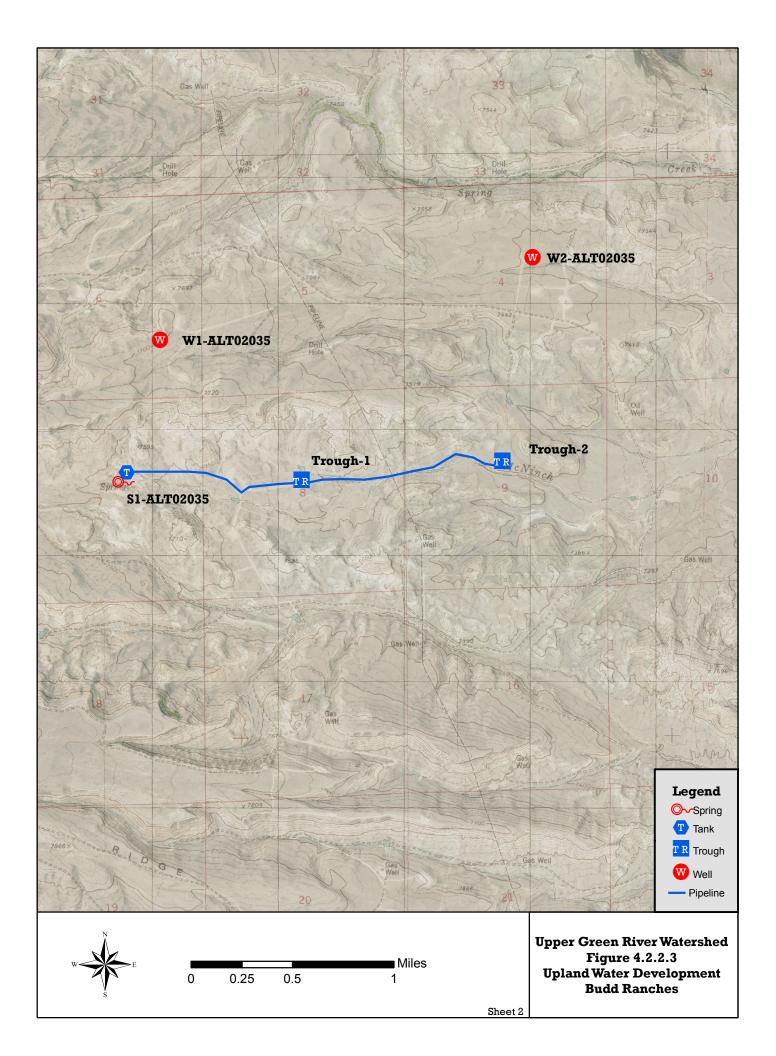
## ITEMIZED COST ESTIMATE

CONSTRU	CTION COSTS PER SPRING				
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development (taken from cost details)	1	LS	\$3,302.50	\$3,303
2	Stock Tank (taken from cost details)	1	LS	\$1,934.00	\$1,934
3	1-1/2" HDPE Piping	1,400	LF	\$5.00	\$7,000
		Subt	otal Spr	ing Construction	\$12,237

#### INCIDENTAL PROJECT COSTS

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$100 \$200 \$100 \$1,840 <b>\$2,240</b>
Subtotal	\$14,477
Construction Engineering @ 10% of Subtotal #1	\$1,448
Subtotal	\$15,924
Contingency @ 15% of Subtotal #2	\$2,389
Total Construction Cost	\$18,313
Preparation of Final Designs and Specifications Permitting @ 3% of Project Cost Legal @ 4% of Project Cost	\$1,465 \$549 \$733

Environmental Study \$4,000 Total Project Cost \$25,060





 Owner/Operator
 Budd Ranches

 Site Name
 \$1-ALT02035

 Type Of Project
 Spring

 Notes/Description
 Name: Spring Site S1-ALT02035

 Location: 42° 36' 06"N, 110° 20' 43"W

Description: This site is a good developed spring, however it lacks storage capacity.

Proposed Project: The proposed project at this site is to install a storage tank of about 5000 gallons to supply two troughs located at 42° 36′ 11″N, 110° 18′ 31″W and at 42° 36′ 05″N, 110° 19′ 42″W. The supply line to the troughs would be about 1-1/2″. Each tank would operate with a float control to preserve water in the main storage tank.

### ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Storage Tank (taken from cost details)	1	LS	\$14,166.00	\$14,166
2	1-1/2" HDPE Piping (surface)	10,600	LF	\$2.00	\$21,200
3	Stock Tank (taken from cost details)	2	LS	\$1,934.00	\$3,868
		Subt	otal Spri	ing Construction	\$39,234

INCIDENTAL PROJECT COSTS

Construction Permits	\$200
Performance Bond	\$400
Insurance	\$200
15% O&P	\$5,890
Subtotal	\$45,924

Construction Engineering @ 10% of Subtotal #1 \$4,592

Subtotal \$50,516

Contingency @ 15% of Subtotal #2 \$7,577

- Total Construction Cost \$58,094
- Preparation of Final Designs and Specifications
   \$4,648

   Permitting @ 3% of Project Cost
   \$1,743

   Legal @ 4% of Project Cost
   \$2,324

   Environmental Study
   \$5,000

   Total Project Cost
   \$71,808

	SUNRISE
11	ENGINEERING

Owner/Operator	Budd Ranches
Site Name	W1-ALT02035
Type Of Project	Well

Notes/Description Name: BLM Well - ALT02035

Location: 42° 36'42.43"N, 110° 20' 30"W

Description: This site is a BLM well and storage tank run by a generator. The well construction is unknown but allows sediment to enter the well and destroy the pump. The well is 500' deep with the pump set at 480'. The well produces roughly 2 gpm through a 1-1/2" column pipe. This will be a high head/low flow application. The old pump is a 1-1/2hp rated pump.

Proposed Project: 1) Clean well and install well screen to protect the pump. 2)Test pump the well. 3) Convert the pump to a solar powered pump.

### ITEMIZED COST ESTIMATE

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Mobilize and Pull Existing Pump	1	LS	\$6,000.00	\$6,000
2	Clean Well and Install New Well Screen	1	LS	\$4,000.00	\$4,000
3	Test Pump Well	1	LS	\$8,000.00	\$8,000
4	Replace Pump Motor with Solar Motor	1	LS	\$4,565.00	\$4,565
5	New Solar Power Supply	1	LS	\$9,624.00	\$9,624
6	New Level Transducer In Storage Tank	1	LS	\$1,516.00	\$1,516
7	New Pump Controls	1	LS	\$3,800.00	\$3,800
				Total Construction Cost	627 E0E

Total Construction Cost \$37,505

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$200 \$400 \$200 \$5,630 <b>\$6,430</b>
Subtotal	\$43,935
Construction Engineering @ 10% of Subtotal #1	\$4,394
Subtotal	\$48,329
Contingency @ 15% of Subtotal #2	\$7,249
Total Construction Cost	\$55,578
Preparation of Final Designs and Specifications Permitting @ 3% of Project Cost Legal @ 4% of Project Cost Environmental Study Total Project Cost	\$4,446 \$1,667 \$2,223 \$0 <b>\$63,914</b>

Owner/Operator	Budd Ranches
Site Name	W2-ALT02035
Type Of Project	Well

Notes/Description Name: EOG Waterwell

Location: 42° 37' 03"N, 110° 18' 20"W

Description: The well was originally constructed by EOG and has been turned over to the ranch. It is outfitted with a 3hp pump and a 2' column pipe and produces about 50 gpm. The well site has utility power in place. Presently the well is manually operated causing difficulty when the well is not shutoff when the tank fills.

Proposed Project: It is proposed this tank and well be outfitted with a pump control panel with PLC. A pressure transducer or ultrasonic sensor in the tank will allow the PLC to sense when the pump should start and when the pump should shut down.

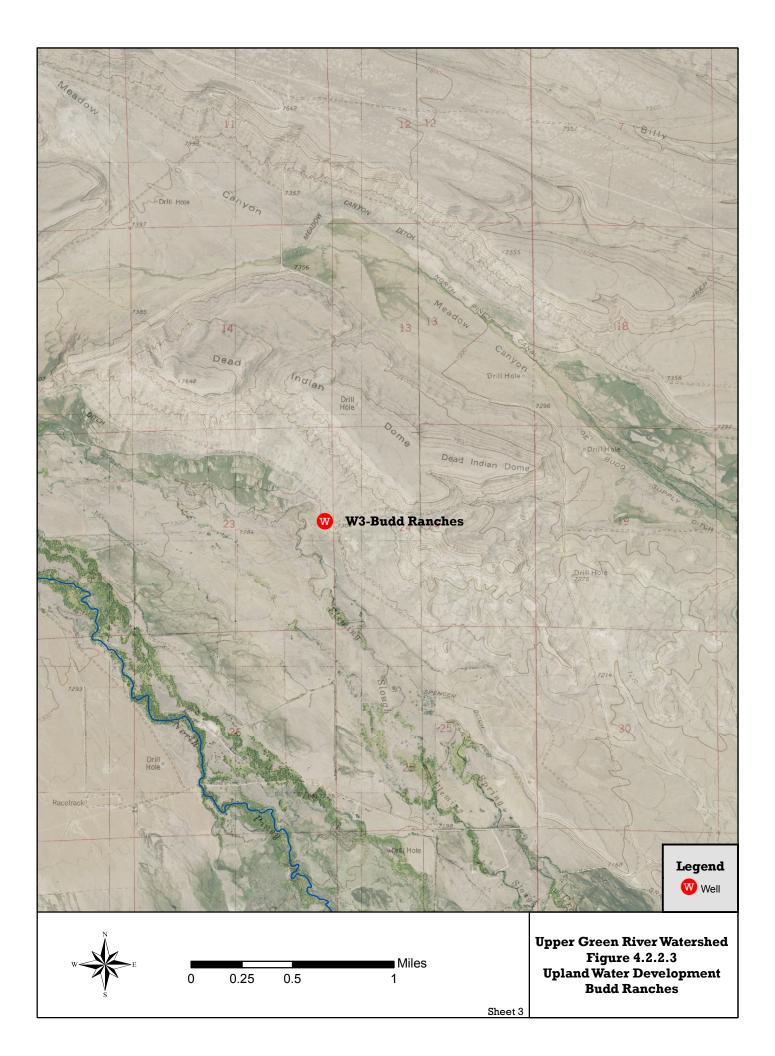
### ITEMIZED COST ESTIMATE

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Pump Control Panel/PLC	1	LS	\$3,800.00	\$3,800
2	Pump Equipment	3	HP	\$0.00	\$0
3	Medium Range Wireless Switch System w/enclosure	1	L.S.	\$1,500.00	\$1,500
4	Storage Tank Level Pressure Transducer	1	LS	\$1,220.00	\$1,220
Total Construction Cost			\$6,520		

Construction Permits	\$100
Performance Bond	\$100
Insurance	\$100
15% O&P	\$980
Subtotal	\$1,280
Subtotal	\$7,800
Construction Engineering @ 10% of Subtotal #1	\$780
Subtotal	\$8,580
Contingency @ 15% of Subtotal #2	\$1,287
Total Construction Cost	\$9,867
Preparation of Final Designs and Specifications	\$789
Permitting @ 3% of Project Cost	\$296
Legal @ 4% of Project Cost	\$395
Environmental Study	\$0
Total Project Cost	\$11,347







Owner/Operator	Budd Ranches	
Site Name	W3-Budd Ranches	
Type Of Project	Well	

Notes/Description Name: Well at Watergap Location: 42° 39'37"N, 110° 15' 36"W

Description: At this location two allotments have access to the creek via a "water gap" across private ground. In the spring, water is sometimes available at the gap and cattle can use the allotments. During summer and fall, no water is available.

Proposed Project: This project is to install a solar powered well about 150' deep at this location to create a reliable water source in all seasons. Alternatively, a second partial solution would be to create a ditch that brings water from a reliable upstream location into the site. However, this would likely only work in the spring.

### ITEMIZED COST ESTIMATE

#### CONSTRUCTION COSTS

INCIDENTAL PROJECT COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	New 150' Well	150	LF	\$87.00	\$13,050
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump Equipment (2hp pump)	1	LS	\$3,200.00	\$3,200
4	Solar Power Supply	1	LS	\$9,624.00	\$9,624
5	Storage Tank (5000 gallons)	1	LS	\$14,166.00	\$14,166
6	WaterTrough	3	Each	\$1,934.00	\$5 <i>,</i> 802
7	2" HDPE Piping	500	LF	\$6.00	\$3,000
Total Construction Cost				\$52,482	

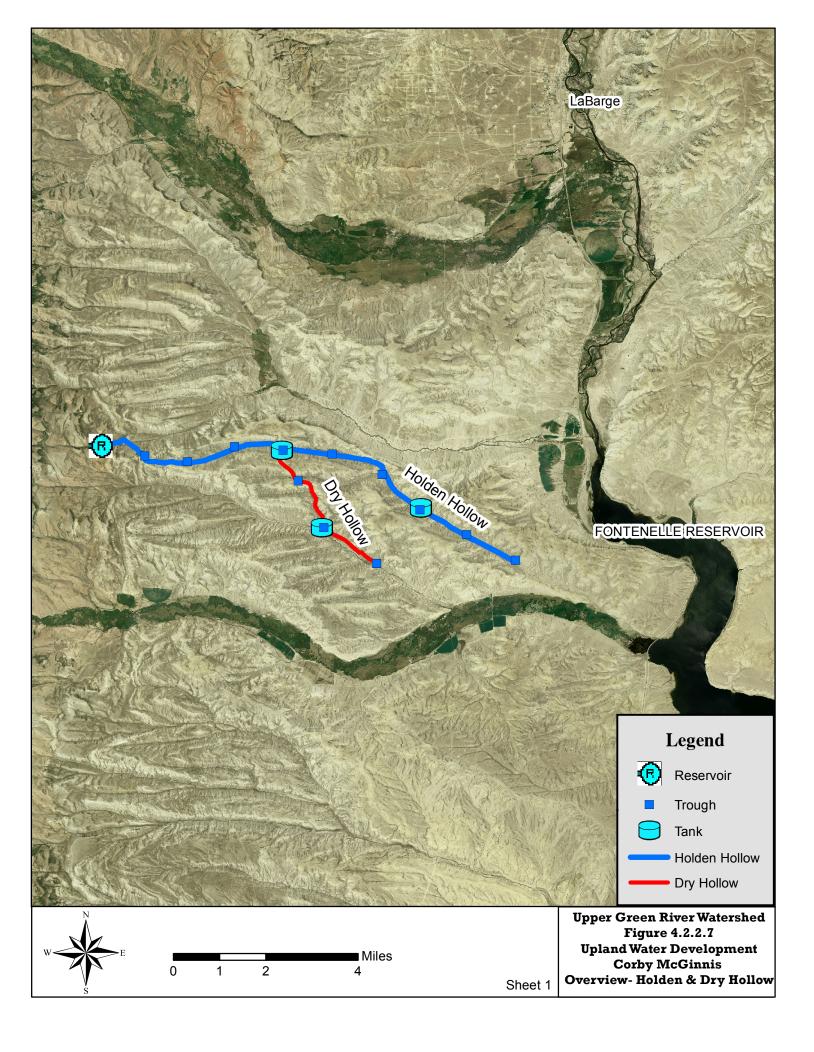
Construction Permits	\$300
Performance Bond	\$600
Insurance	\$300
15% O&P	\$7,880
Subtotal	\$9,080
Subiotal	49,000
Subtotal	\$61,562
Construction Engineering @ 10% of Subtotal #1	\$6,156
Subtotal	\$67,718
Contingency @ 15% of Subtotal #2	\$10,158
Total Construction Cost	\$77,876
Preparation of Final Designs and Specifications	\$6,230
Permitting @ 3% of Project Cost	\$2,336
Legal @ 4% of Project Cost	\$3,115

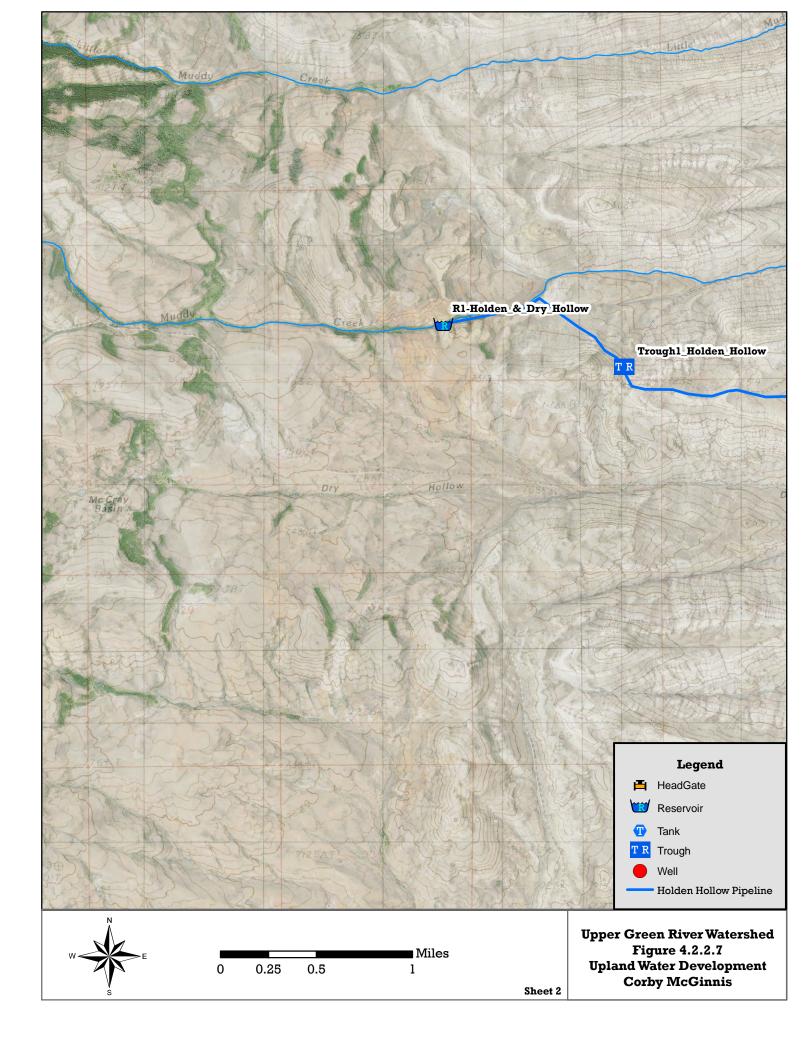
**Environmental Study** 

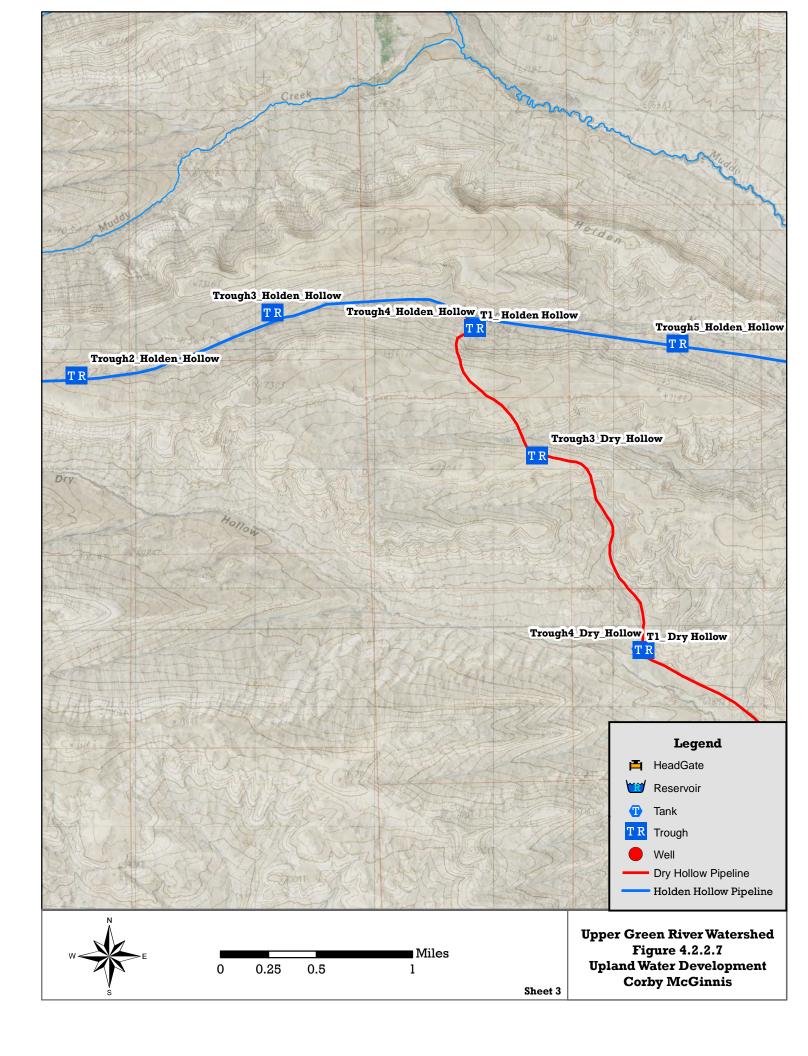
Total Project Cost

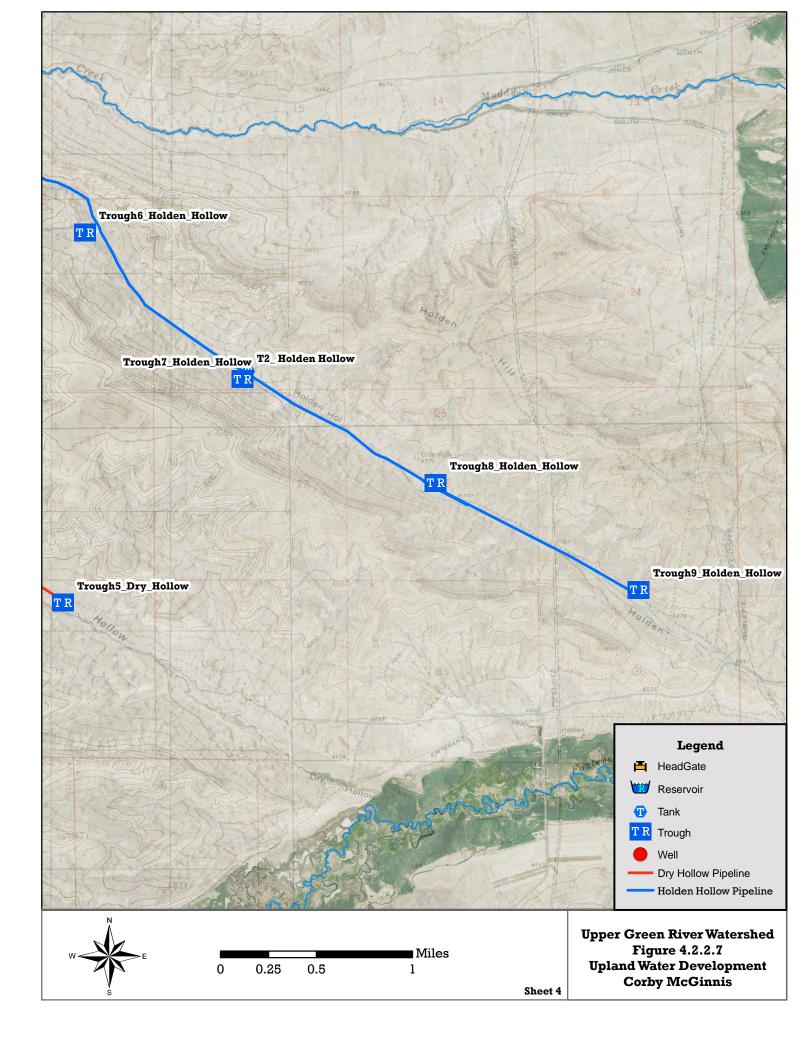
\$2,000

\$91,557











Owner/Operator Corby McGinnis Site Name R1-Holden and Dry Hollow Type Of Project Dam, Pipeline, Tank and Troughs Notes/Description Name: R1-Holden and Dry Hollow (Dam on Muddy Creek)

Location: -110.389458, 42.14945

Description: This project has been under consideration for a number of years including review by the Game and Fish. This area of the South LaBarge Common Allotment has suffered from lack of water. The eastern reaches of Holden Hollow and Dry Hollow do not have available water. Water from Muddy Creek near the western end of Holden Hollow could be dammed at an elevation that would provide gravity flow to Holden and Dry Hollows.

Proposed Project: The project entails damming of Muddy Creek in T25N R114W Section 16, at an elevation of roughly 7,300' with a dam of 20' or less height. The dam would create a 10 ac-ft. pool used to supply a pipeline to Holden Hollow. Along the route of the pipeline, troughs or wildlife guzzlers would be located at about 1 mile intervals. Two storage tanks would be located in Holden Hollow and a third tank would be located in Dry Hollow. The tanks will be located at roughly the 1/3 points on the Holden Hollow line and at the midpoint of the Dry Hollow line. The tanks will act as a pressure cut to protect the lower reaches of the pipe from over pressurization. All tanks and troughs will be outfitted with float valves.

#### ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Description	Quantity	Unit	Unit Cost	Total Cost
Clearing and Grubbing and Excavation	1,400	CY	\$10.00	\$14,000
Import Clay Core Material	800	CY	\$35.00	\$28,000
Borrow Random Fill Outter Shell (pool area)	6,000	CY	\$19.00	\$114,000
Low Level Outlet/Pipe Intake Structure	1	LS	\$12,000.00	\$12,000
Emergency Overflow Rip Rap	80	CY	\$50.00	\$4,000
Compaction & Material Testing	1	LS	\$3,000.00	\$3,000
Construction Access Road Improvements	3,000	LF	\$18.00	\$54,000
4" DR7 HDPE Pipeline Installed By Plowing Method	5,500	LF	\$19.60	\$107,800
4" DR17 HDPE Pipeline Installed By Plowing Method	17,000	LF	\$15.30	\$260,100
2" DR11 HDPE Pipeline	53,000	LF	\$6.00	\$318,000
Water Storage Tank and Level Controls	3	EA	\$14,166.00	\$42,498
Water Trough and Level Controls	12	EA	\$1,934.00	\$23,208
Reseeding	50,000	SF	\$0.10	\$5,000
	Clearing and Grubbing and Excavation Import Clay Core Material Borrow Random Fill Outter Shell (pool area) Low Level Outlet/Pipe Intake Structure Emergency Overflow Rip Rap Compaction & Material Testing Construction Access Road Improvements 4" DR7 HDPE Pipeline Installed By Plowing Method 4" DR17 HDPE Pipeline Installed By Plowing Method 2" DR11 HDPE Pipeline Water Storage Tank and Level Controls Water Trough and Level Controls	Clearing and Grubbing and Excavation       1,400         Import Clay Core Material       800         Borrow Random Fill Outter Shell (pool area)       6,000         Low Level Outlet/Pipe Intake Structure       1         Emergency Overflow Rip Rap       80         Compaction & Material Testing       1         Construction Access Road Improvements       3,000         4" DR7 HDPE Pipeline Installed By Plowing Method       5,500         4" DR17 HDPE Pipeline Installed By Plowing Method       17,000         2" DR11 HDPE Pipeline       53,000         Water Storage Tank and Level Controls       3         Water Trough and Level Controls       12	Clearing and Grubbing and Excavation       1,400       CY         Import Clay Core Material       800       CY         Borrow Random Fill Outter Shell (pool area)       6,000       CY         Low Level Outlet/Pipe Intake Structure       1       LS         Emergency Overflow Rip Rap       80       CY         Compaction & Material Testing       1       LS         Construction Access Road Improvements       3,000       LF         4" DR7 HDPE Pipeline Installed By Plowing Method       5,500       LF         2" DR11 HDPE Pipeline       53,000       LF         Water Storage Tank and Level Controls       3       EA         Water Trough and Level Controls       12       EA	Clearing and Grubbing and Excavation1,400CY\$10.00Import Clay Core Material800CY\$35.00Borrow Random Fill Outter Shell (pool area)6,000CY\$19.00Low Level Outlet/Pipe Intake Structure1LS\$12,000.00Emergency Overflow Rip Rap80CY\$50.00Compaction & Material Testing1LS\$33,000.00Construction Access Road Improvements3,000LF\$18.004" DR7 HDPE Pipeline Installed By Plowing Method5,500LF\$19.604" DR17 HDPE Pipeline Installed By Plowing Method17,000LF\$15.302" DR11 HDPE Pipeline53,000LF\$6.00Water Storage Tank and Level Controls3EA\$14,166.00Water Trough and Level Controls12EA\$1,934.00

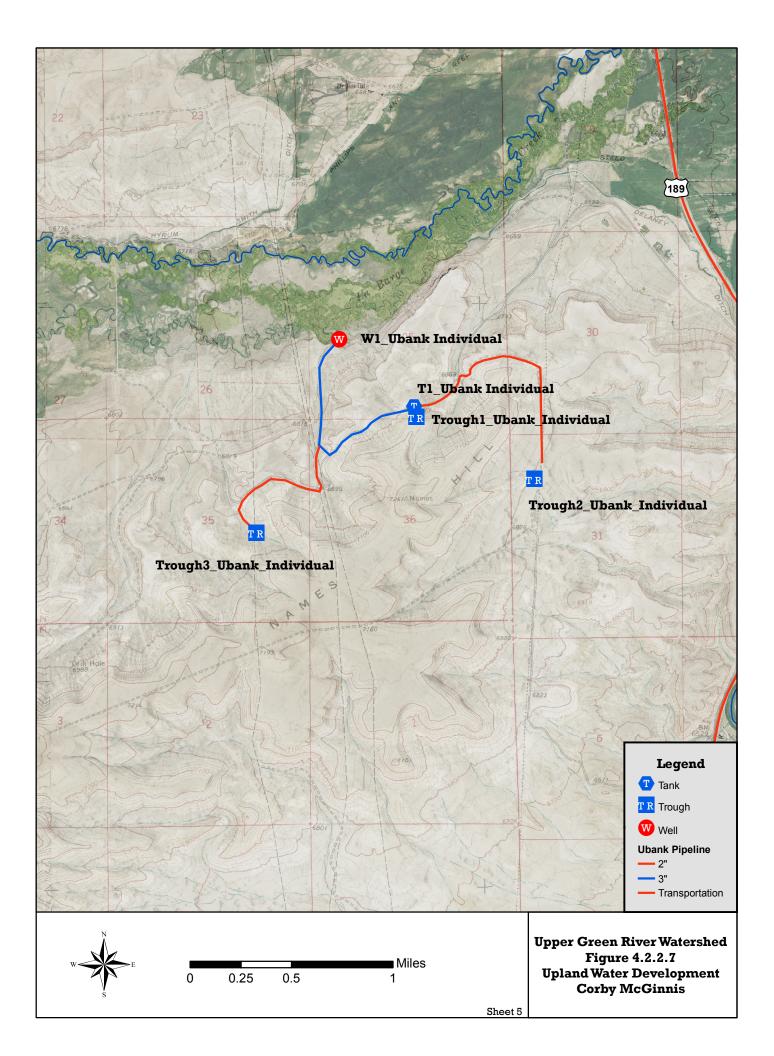
Construction Engine

Total Construction Cost \$985,606

INCIDENTAL	PROJECT	COSTS

	Construction Permits	\$5,000
	Performance Bond	\$9,900
	Insurance	\$5,000
	15% O&P	
	Subtotal	\$167,741
	Subtotal	\$1,153,347
Construction E	ngineering @ 10% of Subtotal #1	\$115,335
	Subtotal	\$1,268,682
Cc	ontingency @ 15% of Subtotal #2	\$190,302
	Total Construction Cost	\$1,458,984
Preparation of	Final Designs and Specifications	\$116,719
	Permitting @ 3% of Project Cost	\$43,770
	Legal @ 4% of Project Cost	\$58,359
	Environmental Study	\$75,000

- Total Project Cost \$1,752,831



SUNRISE ENGINEERING

 Owner/Operator
 McGinnis

 Site Name
 Ubank Individual

 Type Of Project
 Well and Pipeline

 Notes/Description
 Vell and Pipeline

Location: -110.22261, 42.205814

Description: This site is located in the valley floor (elev 6640) at the base of a bluff. The site contains an old abandoned well (P160969.0W) with available power. The well has not been used for years, however it is thought that rehabilitation is possible or even that replacement with a new well is feasible. The well water would be pumped by the well pump to the higher bench elevations filling a 5,000 gallon tank at the elevation of about 7040. The upper elevation of the bluff has historically been difficult to utilize and has required water hauling.

Proposed Project: The proposed project would include rehabilitation of the existing well or perhaps replacement with a new well. The replacement pump will be sized to pump approximately 14 gpm to a 5,000 gallon storage tank located about 400' above the pump setting. Storage Tank would then supply by gravity several troughs located .6 miles southeast and .9 miles southwest of the storage tank site.

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

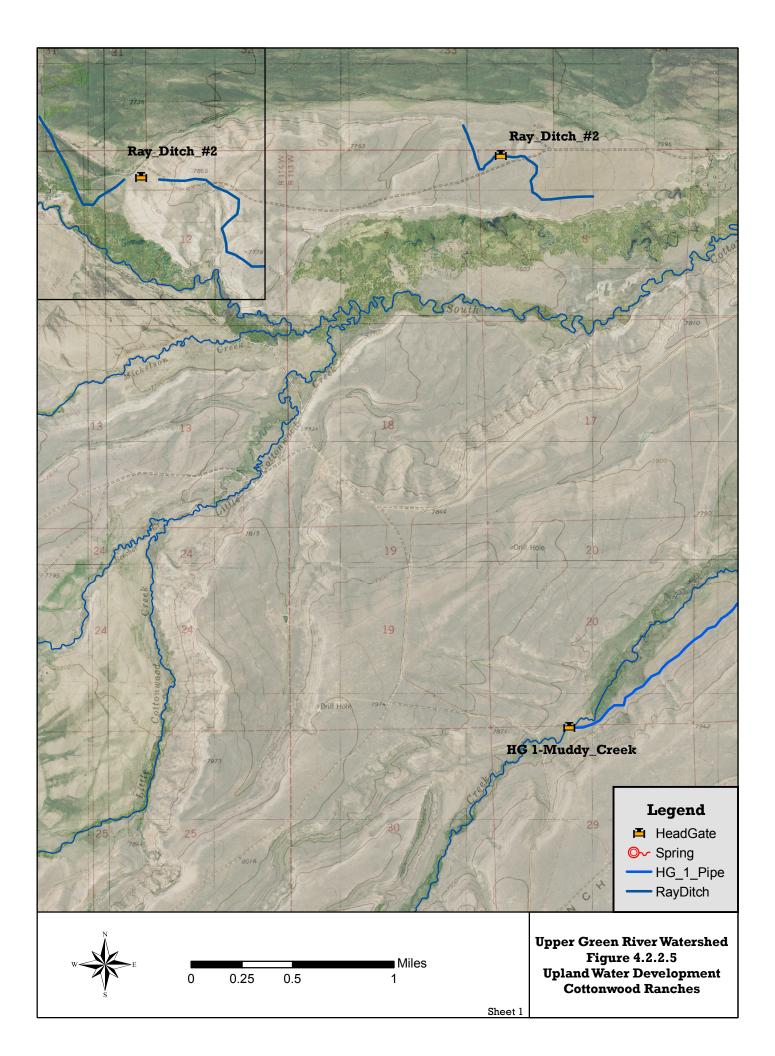
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	New100' Well	100	L.F.	\$90.00	\$9,000
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump Equipment (2HP @ 14 gpm)	1	LS	\$3,200.00	\$3,200
4	Power Drop Refurbishment	1	LS	\$8,000.00	\$8,000
5	3" DR7 HDPE Pipeline Installed By Plowing Method	5,800	LF	\$16.00	\$92,800
6	2" DR17 HDPE Pipeline Installed By Plowing Method	11,000	LF	\$6.00	\$66,000
7	Water Troughs	3	Each	\$1,934.00	\$5,802
8	Storage Tank (5000 gallons)	1	Each	\$14,166.00	\$14,166
			Tot	al Construction Cost	\$202,608

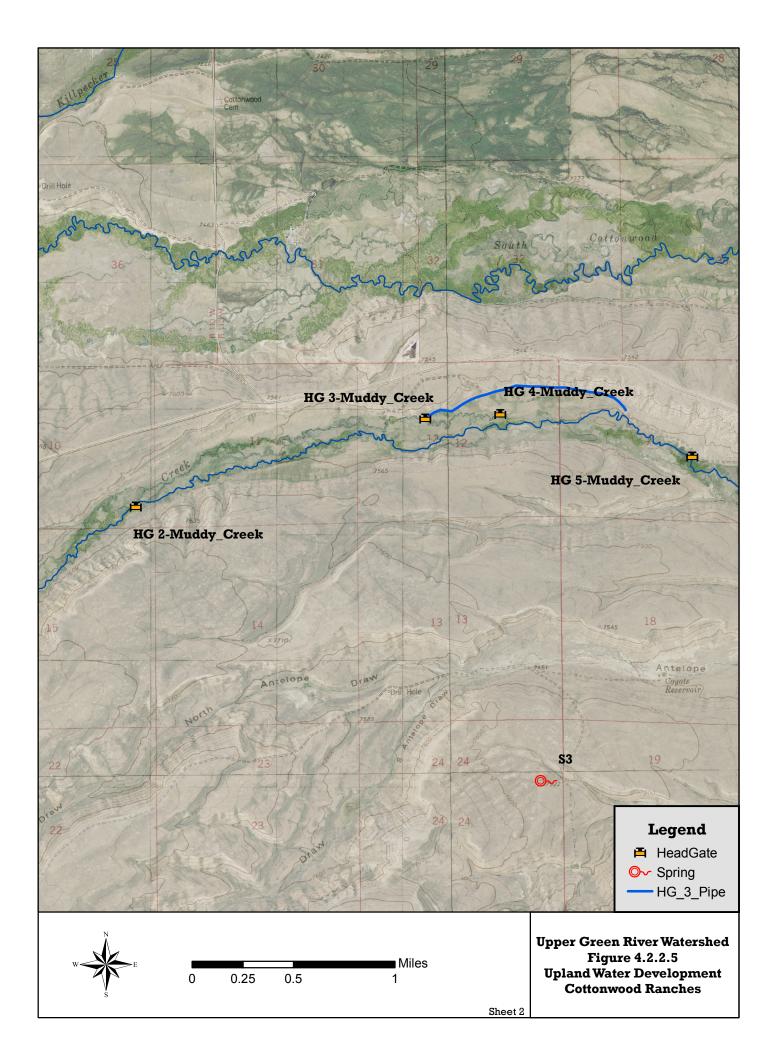
Construction

Preparation

Construction Permits	\$1,100
Performance Bond	\$2,100
Insurance	\$1,100
15% O&P	\$30,391
Subtotal	\$34,691
Subtotal	\$237,299
Engineering @ 10% of Subtotal #1	\$23,730
Subtotal	\$261,029
Contingency @ 15% of Subtotal #2	\$39,154
Total Construction Cost	\$300,183
of Final Designs and Specifications	\$24,015
Permitting @ 3% of Project Cost	\$9,006
Legal @ 4% of Project Cost	\$12,007

- Environmental Study \$45,000
  - Total Project Cost \$390,211







Owner/OperatorCottonwood RanchesSite NameRay Ditch #2Type Of ProjectDitchNotes/DescriptionName: Ray Ditch #2

Location: 42° 46' 26"N, 110° 19' 13"W

Description: The ditch supplies water to irrigated pasture and hay. Portions of the ditch have been piped to improve efficiency. This portion of the ditch lies between two piped sections.

Proposed Project: This project would include piping the gap section there-by improving pressure on the lower end. The pressure at the lower end will still be low, however, it will be more reliable and allow the use of gated pipe.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Grade and Shape Pipe Route	2,200	LF	\$9.00	\$19,800
2	18" HDPE	2,200	LF	\$70.00	\$154,000
3	Pipe Inlet and Outlet Coupling	2	Each	\$900.00	\$1,800
				Construction Total	\$175,600

	Construction Permits	\$900
	Performance Bond	\$1,800
	Insurance	\$900
	15% O&P	
	Subtotal	
	Subtotal	\$29,940
	Subtotal	\$205,540
Construction	Engineering @ 10% of Subtotal #1	\$20,554
	Subtotal	\$226,094
(	Contingency @ 15% of Subtotal #2	\$33,914
	Total Construction Cost	\$260,008
Preparation	of Final Designs and Specifications	\$20,801
	Permitting @ 3% of Project Cost	\$7,800
	Legal @ 4% of Project Cost	\$10,400
	Environmental Study	\$30,000

- vironmental Study \$30,000 Total Project Cost **\$329,009** 
  - 523,003



Owner/OperatorCottonwood RanchesSite NameHG-1 to HG 5 Muddy Creek DiversionsType Of ProjectDiversionsNotes/DescriptionName: Muddy Creek Diversions

Location: Parallel to, and immediately south of, Cottonwood Creek (several locations)

Description: The site contains numerous diversions and several check structures. Each ditch is operated to prevent stranding fish when flows are lowered. Two ditches could be combined to reduce the number of diversion structures from five to perhaps three or four.

Proposed Project: Construct rock weir diversions for the irrigation ditches and connect diversion three around diversion 4 using gated pipe to eliminate diversion 4. Install gated pipe at the outlet of diversion 1 to better reach the irrigable land.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
/luddy C	reek Diversion #1				
1	24" Dia. Rock	50	CY	\$120.00	\$6,00
2	Geotextile Fabric	1000	SF	\$2.15	\$2,15
3	6"-12" Dia. Rip Rap	50	CY	\$125.00	\$6,25
4	Channel Earthwork and Shaping	1	LS	\$1,000.00	\$1,00
5	Demolition/Removal/Salvage	1	LS	\$650.00	\$65
6	Headgate North	1	EACH	\$6,000.00	\$6,00
7	Headgate South	1	EACH	\$15,000.00	\$15,00
8	12" Gated Pipe	6900	LF	\$8.00	\$55,20
	· · · ·	·	Diver	sion #1 Total	\$92,25
•	reek #2 Diversion			<b>*</b> • • • • • •	40.00
1	24" Dia. Rock	30	CY	\$120.00	\$3,60
2	Geotextile Fabric	470	SF	\$2.15	\$1,01
3	6"-12" Dia. Rip Rap	25	CY	\$125.00	\$3,12
4	Channel Earthwork and Shaping	1	LS	\$1,000.00	\$1,00
5	Demolition/Removal/Salvage	1	LS	\$550.00	\$55
6	Headgates	2	EACH	\$6,000.00	\$12,00
Auddy C	reek #3 and 4 Diversion		Diver	sion #2 Total	\$21,28
1	Demolition/Removal/Salvage	1	LS	\$700.00	\$70
2	24" Dia, Rock	24	CY	\$120.00	\$2,88
3	Geotextile Fabric	400	SF	\$2.15	\$86
4			-	÷=-=÷	300
	6"-12" Dia Rip Rap	20	CY	\$125.00	
	6"-12" Dia. Rip Rap 12" Gated Pipe	20	CY LF	\$125.00 \$8.00	\$2,50
5	12" Gated Pipe	5400	LF	\$8.00	\$2,50 \$43,20
			LF LS		\$2,50 \$43,20 \$1,00
5 6	12" Gated Pipe	5400	LF LS	\$8.00 \$1,000.00	\$2,50 \$43,20 \$1,00
5 6	12" Gated Pipe Channel Earthwork and Shaping	5400	LF LS	\$8.00 \$1,000.00	\$2,50 \$43,20 \$1,00 <b>\$51,14</b> \$3,60
5 6 Iuddy Cr	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion	5400	LF LS Diversio	\$8.00 \$1,000.00 on <b>#3, 4 Total</b> \$120.00 \$2.15	\$2,50 \$43,20 \$1,00 <b>\$51,14</b>
5 6 Iuddy Cro	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion 24" Dia. Rock	5400 1 30	LF LS Diversio	\$8.00 \$1,000.00 on <b>#3, 4 Total</b> \$120.00	\$2,50 \$43,20 \$1,00 <b>\$51,14</b> \$3,60
5 6 Iuddy Cro 1 2	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion 24" Dia. Rock Geotextile Fabric	30 30 470	LF LS Diversio CY SF	\$8.00 \$1,000.00 on <b>#3, 4 Total</b> \$120.00 \$2.15	\$2,50 \$43,20 \$1,00 <b>\$51,14</b> \$3,60 \$1,01 \$2,50
5 6 Iuddy Cro 1 2 3	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion 24" Dia. Rock Geotextile Fabric 6"-12" Dia. Rip Rap	30 30 470 20	LF LS Diversio CY SF CY LS	\$8.00 \$1,000.00 on <b>#3, 4 Total</b> \$120.00 \$2.15 \$125.00	\$2,50 \$43,20 \$1,00 <b>\$51,14</b> \$3,60 \$1,01
5 6 Iuddy Cro 1 2 3	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion 24" Dia. Rock Geotextile Fabric 6"-12" Dia. Rip Rap	30 30 470 20	LF LS Diversio CY SF CY LS Diver	\$8.00 \$1,000.00 on <b>#3, 4 Total</b> \$120.00 \$2.15 \$125.00 \$1,000.00	\$2,50 \$43,20 \$1,00 <b>\$51,14</b> \$3,60 \$1,00 \$2,50 \$1,00
5 6 1 1 2 3 4	12" Gated Pipe Channel Earthwork and Shaping eek #5 Diversion 24" Dia. Rock Geotextile Fabric 6"-12" Dia. Rip Rap	30 30 470 20	LF LS Diversio CY SF CY LS Diver	\$8.00 \$1,000.00 on #3, 4 Total \$120.00 \$2.15 \$125.00 \$1,000.00 sion #5 Total version Total	\$2,50 \$43,20 \$1,00 \$51,14 \$3,60 \$1,00 \$2,50 \$1,00 \$8,12 \$172,78
5 6 1 1 2 3 4	12" Gated Pipe         Channel Earthwork and Shaping         eek #5 Diversion         24" Dia. Rock         Geotextile Fabric         6"-12" Dia. Rip Rap         Channel Earthwork and Shaping	30 30 470 20	LF LS Diversion CY SF CY LS Diver Di Constru	\$8.00 \$1,000.00 on #3, 4 Total \$120.00 \$2.15 \$125.00 \$1,000.00 sion #5 Total	\$2, \$43,; \$1,( <b>\$51,</b> : \$3,( \$1,( \$2,: \$1,( <b>\$8,</b> :

## ITEMIZED COST ESTIMATE

 Performance Bond
 \$1,800

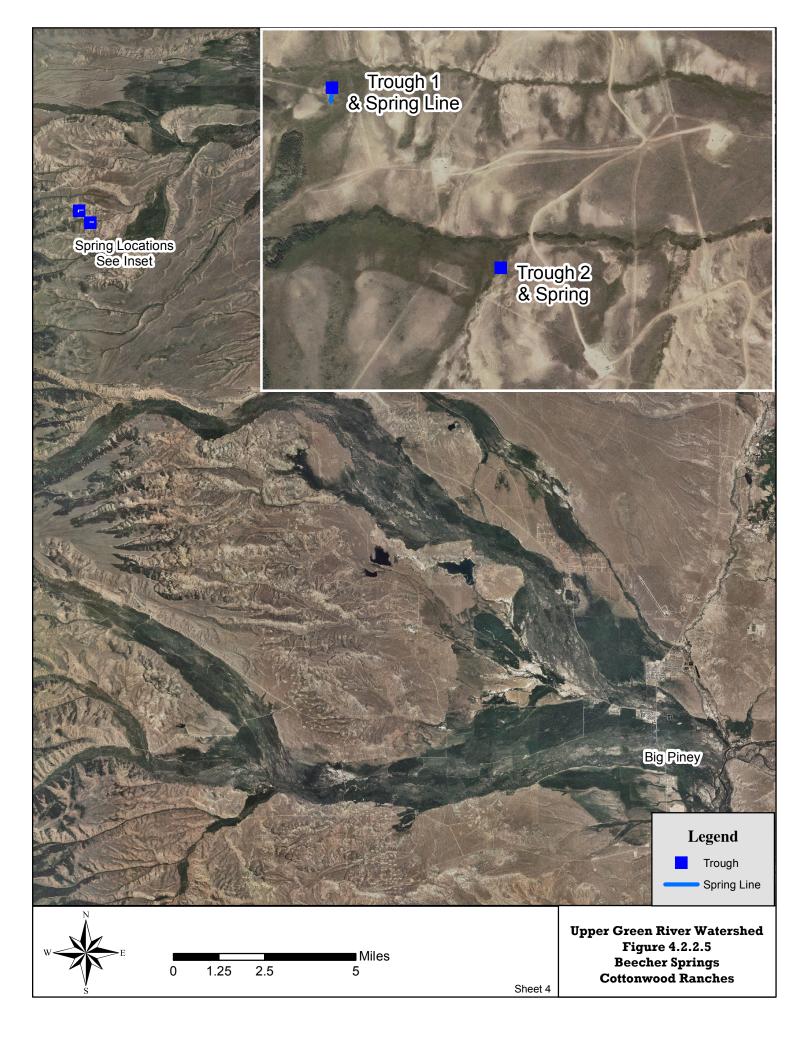
 Insurance
 \$900

 15% O&P
 \$25,918

 Subtotal
 \$29,518

Subtotal	\$202,304
Construction Engineering @ 10% of Subtotal #1	\$20,230
Subtotal	\$222,534
Contingency @ 15% of Subtotal #2	\$33,380
Total Construction Cost	\$255,914

Total Project Cost **\$329,302** 





Owner/Operator	Cottonw	ood Ranches
Site Name	S1 Alt Be	echer Allotment Springs
Type Of Project	Spring	
Notes/Description	Name:	Beecher Allotment Springs

Location: Beecher Allotment -110.418019, 42.740915 & -110.412032, 42.736127

Description: Two spring sources located on the Beecher Allotment supply troughs. Development of the springs has been on small scale with minimal exploration.

Proposed Project: This project would develop the two springs

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Spring Development	2	EACH	\$3,302.50	\$6,605
2	Storage Tank	1	EACH	\$23,670.00	\$23,670
3	Water Trough	3	EACH	\$1,934.00	\$5,802
			Сог	nstruction Total	\$36,077

Construction Permits	\$200
Performance Bond	\$400
Insurance	\$200
15% O&P	\$5,412
Subtotal	\$6,212
Subtotal	\$42,289
Construction Engineering @ 10% of Subtotal #1	\$4,229
Subtotal	\$46,517
Contingency @ 15% of Subtotal #2	\$6,978
Total Construction Cost	\$53,495
Preparation of Final Designs and Specifications	\$4,280
Permitting @ 3% of Project Cost	\$1,605
Legal @ 4% of Project Cost	\$2,140
Environmental Study	\$15,000
Total Project Cost	\$76,519



 Owner/Operator
 Cottonwood Ranches

 Site Name
 Antelope Flats Springs

 Type Of Project
 Spring

 Notes/Description
 Name: Antelope Flat Springs

Location: Antelope Flats -110.241504, 42.749299

Description: Two spring sources located on the Antelope Flats are available for development. To date no development has occurred. Both are located at/near the S3 located on the map. The exact location was unknown by the land manager.

Proposed Project: This project would develop the two springs.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

ltem #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Spring Development	2	EACH	\$3,302.50	
2	Storage Tank	1	EACH	\$23,670.00	
3	Water Trough	3	EACH	\$1,934.00	\$5,802
Construction Total				\$36,077	

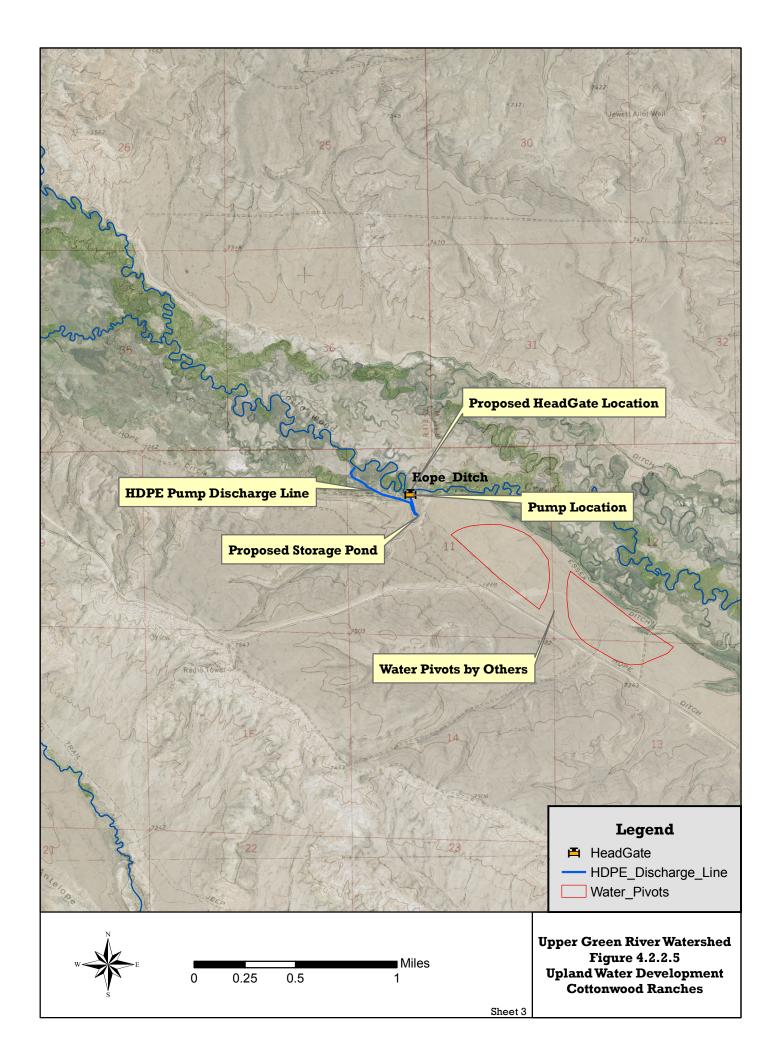
INCIDENTAL PROJECT COSTS

Construction Permits	\$200
Performance Bond	\$400
Insurance	\$200
15% O&P	\$5,412
Subtotal	\$6,212
Subtotal	\$42,289

- Construction Engineering @ 10% of Subtotal #1 \$4,229
  - Subtotal \$46,517
  - Contingency @ 15% of Subtotal #2 \$6,978

#### Total Construction Cost \$53,495

- Preparation of Final Designs and Specifications \$4,280
  - Permitting @ 3% of Project Cost \$1,605
    - Legal @ 4% of Project Cost \$2,140
      - Environmental Study \$15,000
      - Total Project Cost \$76,519



Owner/Operator



#### Cottonwood Ranches

Site NameHope DitchType Of ProjectAbandonment of Ditch, Change of POD and Pump InstallationNotes/DescriptionName: Hope Ditch

Location: 42.775892N, -110.157304W

Description: This ditch supplies water to 330 acres of irrigated pasture. Water losses and washouts, as the ditch traverses a sandy slope for about one mile, reduce efficiency and reliability of the ditch.

Proposed Project: This project would entail abandonment of the Hope Ditch, and change of the Point of Diversion to a downsteam point where the water will be withdrawn by pump and sent to a small storage reservoir. The water will then be withdrawn by pump from the storage reservoir, and sent to "wiper" layout center pivots. Construction of the storage reservoir and center pivot system will be funded by other partners.

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

001101110					
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Pump Base and Intake Structure (5 CU YD)	1	LS	\$6,000.00	\$6,000
2	Electrical Meter Base and Pump Control Panel	1	LS	\$10,000.00	\$10,000
3	Pump Instrumentation	1	LS	\$5,000.00	\$5,000
4	8" HDPE Pump Discharge	400	LF	\$22.00	\$8,800
5	Pump (330 gpm @ 50' NPH - 5hp pump)	1	LS	\$9,500.00	\$9,500
				Construction Total	\$39,300

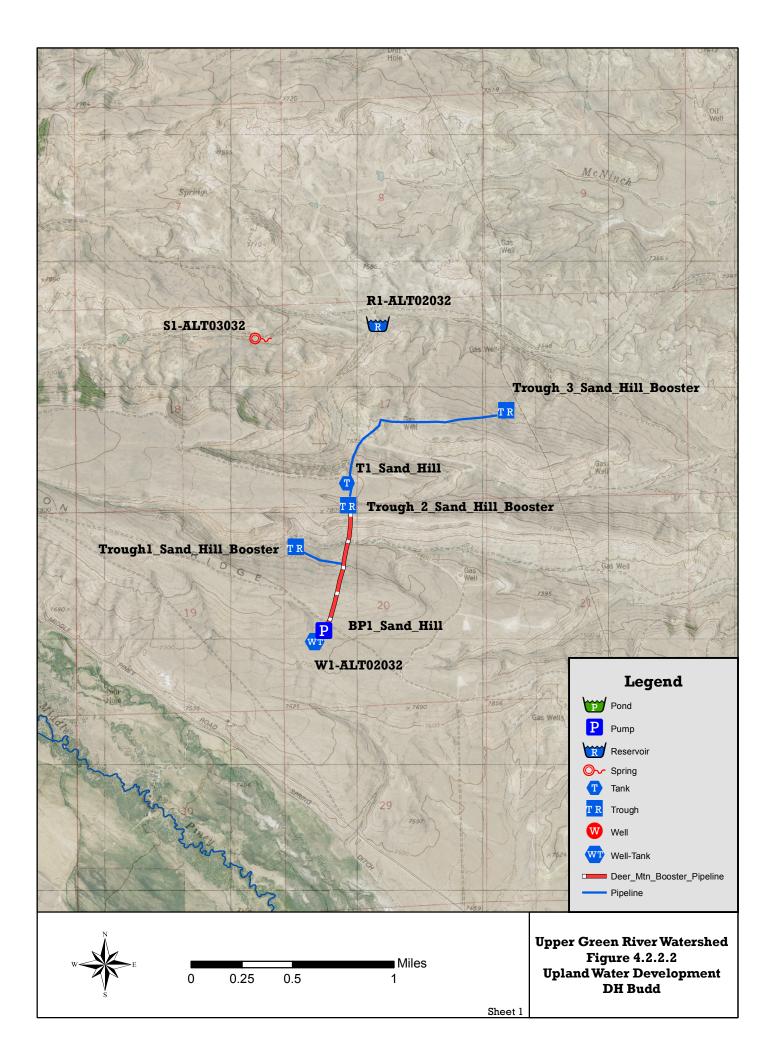
#### INCIDENTAL PROJECT COSTS

<b>Construction Permits</b>	\$200
Performance Bond	\$400

- Insurance \$200 15% O&P \$5,895
  - 5% O&P \$5,895 Subtotal \$6,695

### Subtotal \$45,995

- Construction Engineering @ 10% of Subtotal #1 \$4,600
  - Subtotal \$50,595
  - Contingency @ 15% of Subtotal #2 \$7,589
    - Total Construction Cost \$58,184
- Preparation of Final Designs and Specifications \$4,655
  - Permitting @ 3% of Project Cost \$1,746
    - Legal @ 4% of Project Cost \$2,327
      - Environmental Study \$5,000
        - Total Project Cost \$71,911





 Owner/Operator
 Dan Budd Ranch

 Site Name
 W1-ALT02032 Sand Hill Well

 Type Of Project
 Well

 Notes/Description
 The Sand Hill site contain

The Sand Hill site contains an existing well and storage tank in need of refurbishment.

Location: 42° 34' 08.92"N, 110° 20' 05.10"W

Description: This site is an existing well and 5,000 gallon storage tank which supplies water to three existing water troughs. The well has no level controls. Power to the well is provided via underground single phase power. The operation of the well and tank require manual input that could be automated.

Proposed Project: This site could be improved by repair or replacement of the storage tank, installation of level controls on tank to operate well and automatic fill valves at each trough.

## ITEMIZED COST ESTIMATE

	Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
	1	New Storage Tank (5000 gallons)	5,000	Gal.	\$2.00	\$10,000
	2	Controls & Appurtenances Tank	1	LS	\$3,410.00	\$3,410
	3	Automatic Fill Valves	3	Each	\$40.00	\$120
				_		

Total Construction Cost \$13,530

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$100 \$200 \$100 \$2,100 <b>\$2,500</b>
Subtotal	\$16,030
Construction Engineering @ 10% of Subtotal #1	\$1,603
Subtotal	\$17,633
Contingency @ 15% of Subtotal #2	\$2,645
Total Construction Cost	\$20,278
Preparation of Final Designs and Specifications Permitting @ 3% of Project Cost Legal @ 4% of Project Cost Environmental Study Total Project Cost	\$1,622 \$608 \$811 \$0 <b>\$23,320</b>

## Photographs

Dan Budd Ranch W1-ALT02032 Sand Hill Well















Owner/OperatorDan Budd RanchSite NameR1-ALT02032 Sand Hill ReservoirType Of ProjectStorage PondsNotes/DescriptionName: Precipitation Storage Pond/Reservoir Sites

Location: 42° 35'30.51"N, 110° 19'42.18"W

Description: The site is north of Sand Hill. It includes a constructed embankment to collect runoff. Over the years it has silted in eliminating most of the storage capacity.

Proposed Project: Rehabilitation of the reservoir would entail removal of the silt, reconstruction of the low level outlet and overflow, and restoration of the eroded downstream section.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Removal of Silt	500	CY	\$10.00	\$5,000
2	Reconstruction of Low Level Outlet	1	LS	\$2,500.00	\$2,500
3	Overflow Structure	1	LS	\$2,000.00	\$2,000
4	Compaction & Material Testing	1	LS	\$3,000.00	\$3,000
5	Embankment Repair	1	LS	\$6,000.00	\$6,000
6	Reseeding	4,000	SF	\$0.10	\$400
7					

Total Construction Cost \$18,900

#### INCIDENTAL PROJECT COSTS

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$100 \$200 \$100 \$2,835 <b>\$3,235</b>
Subtotal	\$22,135
Construction Engineering @ 10% of Subtotal #1	\$2,214
Subtotal	\$24,349
Contingency @ 15% of Subtotal #2	\$3,652
Total Construction Cost	\$28,001
Preparation of Final Designs and Specifications Permitting @ 3% of Project Cost Legal @ 4% of Project Cost Environmental Study	\$2,240 \$840 \$1,120 \$0

Total Project Cost \$32,201



 Owner/Operator
 Dan Budd Ranch

 Site Name
 BP1\_Sand\_Hill

 Type Of Project
 Booster Pump

 Notes/Description
 Name: Booster pump from Sand Hill Well to remote tank and troughs

Location: 42° 34'11.74"N, 110° 20' 1.9"W (booster pump); 42° 34' 49.62"N, 110° 19' 53.42"W (Tank 1); 42° 34' 33.26"N, 110° 20' 11.43"W (trough 1); 42° 34' 43.96"N, 110° 19' 53.01"W (Trough 2); 42° 35' 7.97"N, 110° 18' 57.70"W (Trough 3)

Description: The existing Sand Hill Well pumps to a 5,000 gallon tank serving several nearby troughs. This project is intended to extend the service area of the Sand Hill Well by supplying additional storage and troughs to the north of the well. Some of the better local range is found north where the proposed troughs will be located.

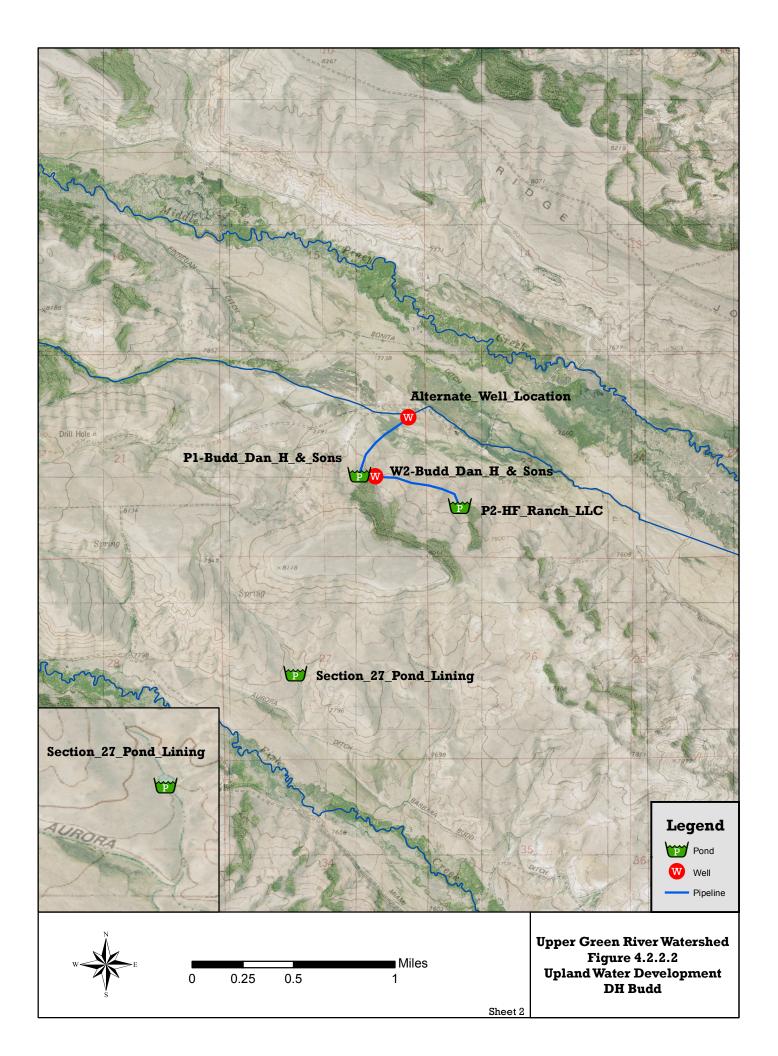
Proposed Project: The project includes installation of a booster pump supplied by the existing (refurbished) 5,000 gallon tank. The booster pump will send water north to a new storage tank using a 2-1/2" pipeline. The upper tank will be 100' above the existing tank and will supply one trough to the south and two troughs further north and east. The booster pump will pump at about 10 to 15 gpm, 120' of head and be rated at about 2/3hp or 450 watts. The power supply will be the existing Sand Hill Well powerline.

## ITEMIZED COST ESTIMATE

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Booster Pump (2/3hp) and piping	1	LS	\$2,200.00	\$2,200
2	Booster pump control panel & electrical	1	LS	\$5,000.00	\$5,000
3	2-1/2 discharge pipeline (plowed)	10,700	LS	\$7.00	\$74,900
4	5000 gallon storage tank	1	LS	\$14,166.00	\$14,166
5	Trough	3	Each	\$1,934.00	\$5,802
Total Construction Cost					\$102,068

<b>Construction Permits</b>	\$600
Performance Bond	\$1,100
Insurance	\$600
15% O&P	\$15,310
Subtotal	\$17,610

- Subtotal \$119,678
- Construction Engineering @ 10% of Subtotal #1 \$11,968
  - Subtotal \$131,646
  - Contingency @ 15% of Subtotal #2 \$19,747
    - Total Construction Cost \$151,393
- Preparation of Final Designs and Specifications \$12,111
  - Permitting @ 3% of Project Cost \$4,542
    - Legal @ 4% of Project Cost\$6,056
      - Environmental Study \$17,000
        - Total Project Cost \$191,102





Owner/Operator Dan Budd Ranch Site Name P1-Budd Dan H & Sons - Pond, P2-HF Ranch LLC Type Of Project Pond Notes/Description Name: P1-Budd Dan H & Sons - Pond, P2-HF Ranch LLC

Location: 42° 34'11.60"N, 110° 24'12.20"W (pond 1), 42° 34'03.00"N, 110° 22'49.90"W (pond 2)

Description: The two existing ponds are located at the toe of a treed slope that sees significant drifting of snow. The ponds are filled by snowmelt in early season.

Proposed Project: A proposed well located in this area could supply these ponds in late season. Buried membranes would be placed in the ponds to conserve well water. Approximately 2,500 feet of 2" polyethylene pipe will be installed to connect a well (W-2) to the ponds. An alternative would be to install troughs near the ponds and supply well water to the troughs in late season and use ponds in early season.

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	New 250' Well	250	L.F.	\$87.00	\$21,750
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump Equipment	2	HP	\$800.00	\$1,600
4	Solar Power Source	1,400	Watt	\$6.90	\$9,660
5	Storage Tank (5000 gallons)	5,000	Gal.	\$2.00	\$10,000
6	Controls & Appurtenances for Tank	1	LS	\$3,410.00	\$3,410
7	Membrane Liner Material	6,000	SF	\$2.05	\$12,300
8	2" HDPE Piping	2,500	LF	\$6.00	\$15,000
			Tot	al Construction Cost	\$77,360
Alternativ	e #1 Troughs Instead of Geotextile Fabric				
9	Water Troughs	2	Each	\$1,934.00	\$3,868

**Construction Engli** 

Preparation of Fi

#### ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Construction Permits	\$400
Performance Bond	\$800
Insurance	\$400
15% O&P	\$11,604
Subtotal	\$13,204
Subtotal	\$90,564
n Engineering @ 10% of Subtotal #1	\$9,056
Subtotal	\$99,620
Contingency @ 15% of Subtotal #2	\$14,943
Total Construction Cost	\$114,563
	40.465
n of Final Designs and Specifications	\$9,165
Permitting @ 3% of Project Cost	\$3,437

- Permitting @ 3% of Project Cost
  - Legal @ 4% of Project Cost \$4,583
  - Environmental Study \$13,000
    - Total Project Cost \$144,748

## Photographs

Dan Budd Ranch P1-Budd Dan H & Sons - Pond, P2-HF Ranch LLC



Pond 1



Pond 1 - Road forms dike



Pond 2 Located at base of slope



Pond 1 Downstream



Pond 1

## Photographs

Dan Budd Ranch P1-Budd Dan H & Sons - Pond, P2-HF Ranch LLC



Pond 1 in Distance Just above tree tops



Pond 2 - Located at base of slope



 Owner/Operator
 Dan Budd Ranch

 Site Name
 W2-Budd Dan H & Sons

 Type Of Project
 Well

 Notes/Description
 Name: Well #2 - Alternate well site near power source.

Location: 42° 34' 11.12"N, 110° 24' 06.76"W

Description: This site is located west of Middle Piney Creek. The proximity to the Creek bottom may allow a small well servicing a trough or troughs. It is near a single phase power souce and could be used to fill P-1 and P-2 in the late season rather than constructing a solar well near the pond.

Proposed Project: The proposed well would supplement the supply provided by ponds P-1 and P-2 in late season. A trough or troughs would be supplied by the well rather than the ponds. The well would be located near an existing single phase power line. And a pipeline extended to the troughs.

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	New 250' Well	250	LF	\$87.00	\$21,750
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump System	1	LS	\$10,428.00	\$10,428
4	Power Supply	0.1	Mile	\$113,520.00	\$11,352
5	Storage Tank (5000 gallons)	5,000	Gal.	\$2.00	\$10,000
6	Water Trough	2	Each	\$1,934.00	\$3,868
7	2" HDPE Piping	2,000	LF	\$6.00	\$12,000
Total Construction Cost					672.020

Total Construction Cost \$73,038

#### INCIDENTAL PROJECT COSTS

Construction Permits Performance Bond Insurance 15% O&P <b>Subtotal</b>	\$400 \$800 \$400 \$11,000 <b>\$12,600</b>
Subtotal	\$85,638
Construction Engineering @ 10% of Subtotal #1	\$8,564
Subtotal	\$94,202
Contingency @ 15% of Subtotal #2	\$14,130
Total Construction Cost	\$108,332

- Preparation of Final Designs and Specifications \$8,667
  - Permitting @ 3% of Project Cost \$3,250
    - Legal @ 4% of Project Cost \$4,333
      - Environmental Study \$12,000
        - Total Project Cost \$136,582

## ITEMIZED COST ESTIMATE



Owner/OperatorDan Budd RanchSite NameSection\_27\_Pond\_LiningType Of ProjectStorage PondNotes/DescriptionName: Precipitation/Spring Storage Pond

Location: 42° 33'20.51"N, 110° 24' 35.00"W

Description: This storage pond is located in a draw below a spring and receives both spring water and precipitation runoff. Lining of this pond will improve water retention and prolong its usefulness.

Proposed Project: The project includes importation of a clay liner material for the 160' x 170' pond area. The liner will be about 6" thick and covered with 12" of native material.

# ITEMIZED COST ESTIMATE

CONSTRUCTION COSTS						
Item #	Description	Quantity	Unit	Unit Cost	Total Cost	
1	Removal of native layer 18"	1,500	CY	\$8.00	\$12,000	
2	Import Clay Liner	500	CY	\$20.00	\$10,000	
3	Replacment of native layer 12"	1,000	CY	\$8.00	\$8,000	
4	Construction of rock armored access ramps	90	CY	\$40.00	\$3,600	
	Access road Improvements (to allow haul trucks					
5	in dry weather)	1	LS	\$6,000.00	\$6,000	
6	Reseeding	10,000	SF	\$0.10	\$1,000	
				- I Commentations Comment	640 COO	

Total Construction Cost \$40,600

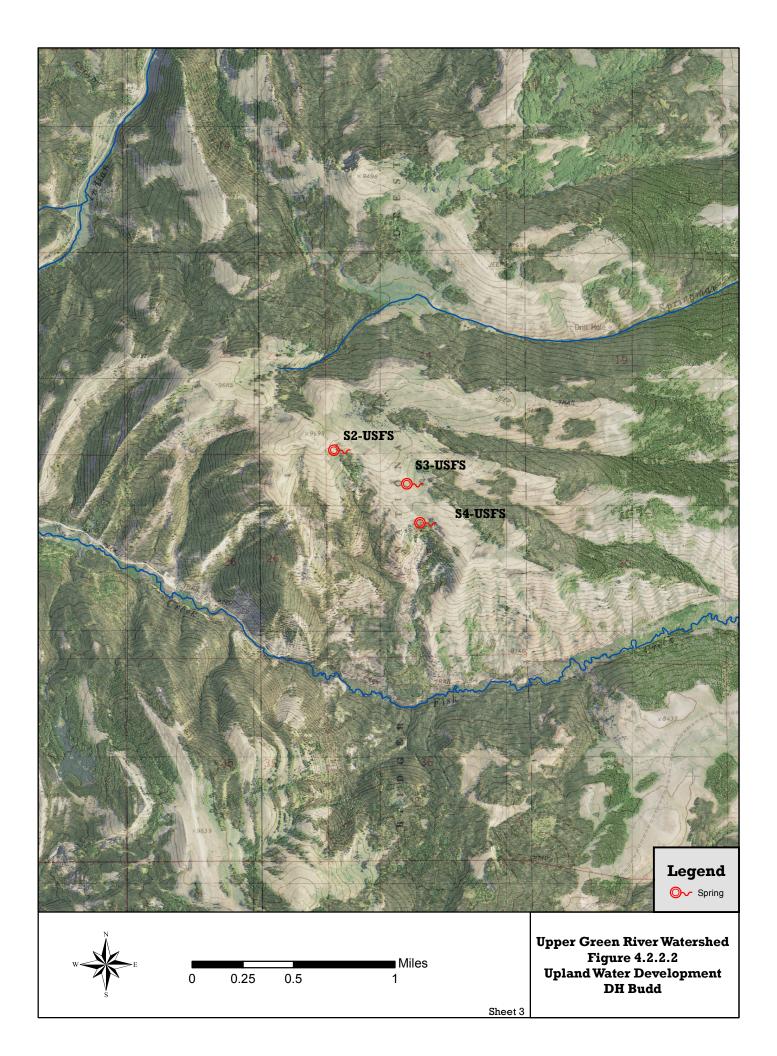
Construction Permits	\$300
Performance Bond	\$500
Insurance	\$300
15% O&P	\$6,090
Subtotal	\$7,190
Subtotal	\$47,790
Construction Engineering @ 10% of Subtotal #1	\$4,779
Subtotal	\$52,569

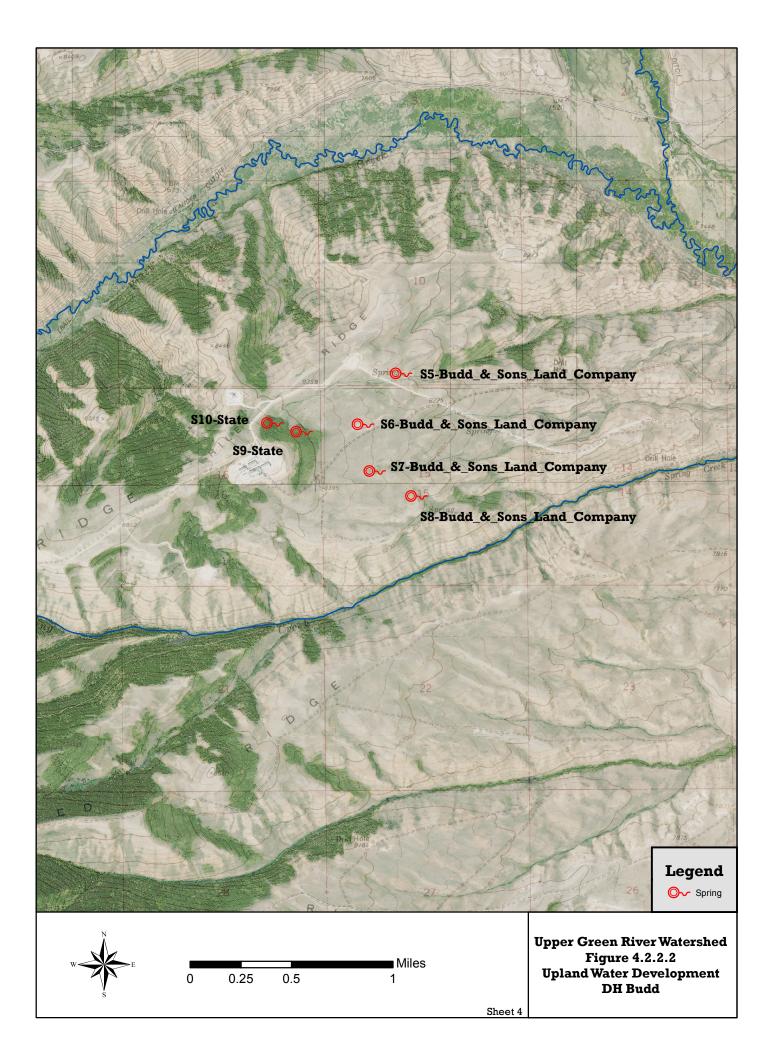
- Contingency @ 15% of Subtotal #2 \$7,885
  - Total Construction Cost \$60,454
- Preparation of Final Designs and Specifications \$4,836
  - Permitting @ 3% of Project Cost \$1,814
    - Legal @ 4% of Project Cost \$2,418
      - Environmental Study \$7,000
      - Total Project Cost \$76,523

## Photographs

Dan Budd Ranch Section\_27\_Pond\_Lining









 Owner/Operator
 Dan Budd Ranch

 Site Name
 S1 to S10Spring Sites

 Type Of Project
 Spring

 Notes/Description
 Name: Spring Sites

Location: 42° 35' 27.00"N, 110° 20'23.00"W (spring 1), 42° 33' 54.18"N, 110° 29'34.73"W, (spring 2), 42° 33' 45.18"N, 110° 29'09.40"W (spring 3), 42° 33' 35.40"N, 110° 29'04.95"W (spring 4), 42° 30' 28.00"N, 110° 24'32.70"W (spring 5), 42° 30'15.00"N, 110° 24' 46.00"W (spring 6), 42° 30'03.00"N, 110° 24' 42.00"W (spring 7), 42° 29'56.50"N, 110° 24' 27.60"W (spring 8), 42° 30'13.20"N, 110° 25' 07.40"W (spring 9), 42° 30'15.50"N, 110° 25' 17.50"W (spring 10)

Description: The previously developed springs are located on several different parcels operated by the Budd Ranch. They are fed by winter precipitation and vary in production from less than one gpm to several gpm.

Proposed Project: Each spring would be developed by installation of a slotted 6" collection pipe that runs to a 100 gallon +/- collection vault. The vault outlet will be piped to a trough located downslope of the spring. Typical drawings of the proposed development are found at the end of Appendix A.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Removal of Existing Spring Box	1	Each	\$1,000.00	\$1,000
1	Exploratory Excavation	15	CY	\$10.00	\$150
2	Trench Geotextile Liner	50	SY	\$6.00	\$300
3	Trench Backfill w/ Drain Rock	10	CY	\$36.00	\$360
4	6" Trench Collection Pipe	30	LF	\$8.00	\$240
5	Spring Box	1	Each	\$1,050.00	\$1,050
6	2" HDPE Spring Line to Vault	100	LF	\$6.00	\$600
7	2" HDPE Spring Overflow Line	50	LF	\$6.00	\$300
8	WaterTrough & Appurtenances	1	Each	\$1,934.00	\$1,934
9	Final Grading	250	SF	\$1.50	\$375
10	Reseeding	250	SF	\$0.10	\$25
11	2" HDPE Pipe	500	LF	\$6.00	\$3,000
		Subtotal Spring Construction			\$9,334
	Total Spring Development Cost	10	Each	\$9,334.00	\$93,340

## ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Construction Permits	\$500
Performance Bond	\$1,000
Insurance	\$500
15% O&P	\$14,100
Subtotal	
Subtotal	\$16,100
Subtotal	\$109,440
Construction Engineering @ 10% of Subtotal #1	\$10,944
Subtotal	\$120,384
Contingency @ 15% of Subtotal #2	\$18,058
Total Construction Cost	\$138,442
Preparation of Final Designs and Specifications	\$11,075
Permitting @ 3% of Project Cost	\$4,153
Legal @ 4% of Project Cost	\$5,538
Environmental Study	\$15,000
	\$174,208
Total Project Cost	φ174,200

## Photographs

Dan Budd Ranch S1 to S10 Spring Sites



Spring 1



Spring 1



Spring 2



Spring 1





Spring 2



Spring 2



Spring 3



Spring 4



Spring 2



Spring 3



Spring 4



Spring 5



Spring 6



Spring 7



Spring 5



Spring 7



Spring 7



Spring 8



Spring 9



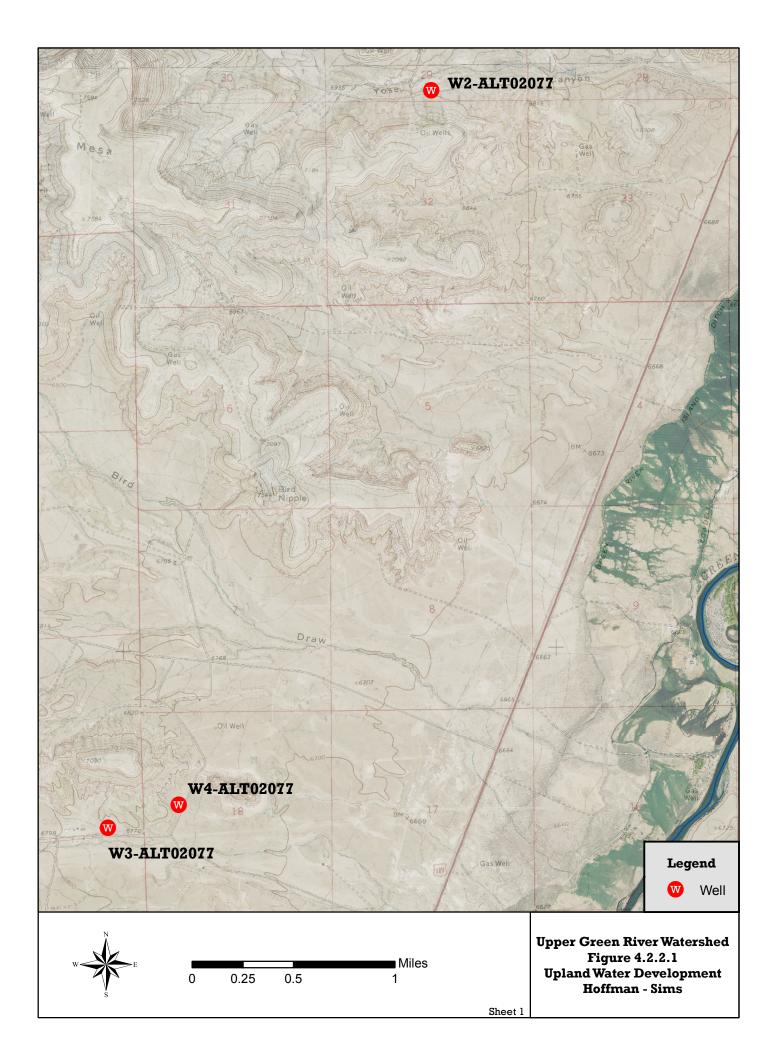
Spring 10



Spring 8



Spring 10





 Owner/Operator
 Hoffman-Sims

 Site Name
 W2-Donated PTO Driven Well

 Type Of Project
 Well

Notes/Description Name: Donated PTO driven well -ALT02077

Location: 42° 22'23.20"N, 110° 10' 44.12"W

Description: This site is an abandoned and donated well from a former oil company. The well was used to supply water to the oil operation and is driven via a PTO belt system. Single phase power is available within about 1,800 feet. The well is a good producer when used, but requires a tractor. The site is also furnished with a 5,000 gallon storage tank. According to SEO record P1268.0W, this well is 900' deep with static water at 59'. Drawdown is unknown.

Proposed Project: This site is promising as a large producer to supply both local tanks and perhaps serve as a loading point for hauling stock water. The proposed project will outfit the well with an electric submersible pump, add solar electrical power, and install several troughs in the area. The controls will be automated to top off the storage tank. The target flow rate will be 3000 gallons per day pumped over 6 hours. For a net lift of 80 feet the estimated pump horsepower will be about 0.25 to 0.3 hp.

#### ITEMIZED COST ESTIMATE

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	New 250' Well	-	L.F.	\$87.00	\$0
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump Equipment	0.3	HP	\$1,600.00	\$480
4	Solar Power Source	200	Watts	\$6.90	\$1,380
5	Storage Tank Rehab (Use Existing)	1	LS	\$500.00	\$500
6	WaterTrough	3	Each	\$1,934.00	\$5,802
7	2" HDPE Piping	3,000	LF	\$6.00	\$18,000

Total Construction Cost \$29,802

INCIDENTAL	<b>PROJECT</b>	COSTS
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Construction Permits	\$200
Performance Bond	\$300
Insurance	\$200
15% O&P	\$4,500
Subtotal	\$5,200
Subtotal	\$35,002
Construction Engineering @ 10% of Subtotal #1	\$3,500
Subtotal	\$38,502
Contingency @ 15% of Subtotal #2	\$5,775
Total Construction Cost	\$44,278
Preparation of Final Designs and Specifications	\$3,542
Permitting @ 3% of Project Cost	\$1,328
Logal @ 4% of Project Cost	\$1,328

Permitting @ 3% of Project Cost \$1,328 Legal @ 4% of Project Cost \$1,771 Environmental Study \$5,000 Total Project Cost **\$55,919** 

SITE PHOTOS: Well Head w/PTO Drive & Old Storage Tank



Upper Green Watershed Study Level I Upland Water Development

# Photographs

Hoffman-Sims W-2 Donated PTO Driven Well



PTO Driven Well



Storage Tank at Site



Potential Trough Location



Owner/Operator	Hoffman-Sims
Site Name	W3-Donated Culinary Well
Type Of Project	Well
Notes/Description	Name: Donated Culinary Well -ALT02077

Location: 42° 19'14.20"N, 110° 12' 38.6"W SE/SE Section 13, T27N R113W Description: This site is an abandoned and donated well from Chevron. The well was used to supply water to the oil operation. Single phase power is available within about 600 feet, if not closer. The well is outfitted with a column pipe and a submersible pump may still be in the well. The well (P1025.0W) is recorded as being 316' deep with static water level at 100'. The total flow is recorded at 10 gpm. Casing size is about 6", but unconfirmed. Proposed Project: This site is proposed to supply a 15' diameter circular trough and perhaps serve as a loading point for hauling water. The proposed project would outfit the well with a 1/2hp electric submersible pump and provide a generator power source. The pump controls would be automated to top off the trough. For this estimate the hp was estimated using 10 gpm and a 150' lift.

## ITEMIZED COST ESTIMATE

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Pump Test	14	Hours	\$260.00	\$3,640
2	Pump Equipment(Pull old pump and replace with 1/2hp pum	1	LS	\$3,500.00	\$3,500
3	Generator Power Source w/weather protection	1	LS	\$10,000.00	\$10,000
4	WaterTrough (15' Dia. To Provide Storage)	1	Each	\$2,734.00	\$2,734
5	2" HDPE Piping	50	LF	\$6.00	\$300
6					
7					
			1	otal Construction Cost	\$20,174

#### INCIDENTAL PROJECT COSTS

Construction Permits	\$200
Performance Bond	\$300
Insurance	\$200
15% O&P	\$3,100
Subtotal	
Subiotal	\$3,800
Subtotal	\$23,974
Construction Engineering @ 10% of Subtotal #1	\$2,397
Subtotal	\$26,371
Contingency @ 15% of Subtotal #2	\$3,956
Total Construction Cost	\$30,327
Preparation of Final Designs and Specifications	\$2,426
Permitting @ 3% of Project Cost	\$910
Legal @ 4% of Project Cost	\$1,213
Environmental Study	\$0
Total Project Cost	\$34,876
Total Toject cost	<i>4</i> 54,010

SITE PHOTO: Well casing located at center foreground of photo.



Upper Green Watershed Study Level I Upland Water Development

# Photographs

Hoffman-Sims W3-Donated Culinary Well



Wellhead in upper center of photo



Owner/Operator	Hoffman-Sims	
Site Name	W4-Donated Well	
Type Of Project	Well	
Natas (Danasistian	Name, Depated Culinery Wall	

Notes/Description Name: Donated Culinary Well -ALT02077 Location: 42° 19'20"N, 110° 12' 14"W Section 18, T27N, R112W

Description: This site is an abandoned and donated well from a former oil company. It is nearby the previously described culinary well and would probably not be developed if the culinary well project were implemented. For purposes of this estimate, the depth to static water will be 100' based on well W3's recorded data.

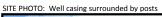
Proposed Project: This site is proposed to supply one 15' diameter trough and perhaps serve as a loading point for hauling water. The proposed project would outfit the well with 1kW generator and fuel tank, install a new 15' dia trough on concrete pad, and install a pump and pump control panel. The controls would be automated to top off the trough.

#### ITEMIZED COST ESTIMATE

CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	New 250' Well	-	L.F.	\$87.00	\$0
	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump Equipment(furnish and install 1/2hp pump)	1	LS	\$2,500.00	\$2,500
4	Generator Power Source w/weather protection	1	LS	\$10,000.00	\$10,000
5	WaterTrough (15' Dia. To Provide Storage)	1	Each	\$2,734.00	\$2,734
6	2" HDPE Piping	50	LF	\$6.00	\$300
7					
			Т	otal Construction Cost	\$19,174

\$100	Construction Permits
\$200	Performance Bond
\$100	Insurance
\$2,900	15% O&P
\$3,300	Subtotal
\$22,474	Subtotal
\$2,247	Construction Engineering @ 10% of Subtotal #1
\$24,721	Subtotal
\$3,708	Contingency @ 15% of Subtotal #2
\$28,430	Total Construction Cost
\$2,274	Preparation of Final Designs and Specifications
\$853	Permitting @ 3% of Project Cost
\$1,137	Legal @ 4% of Project Cost
\$1,500	Environmental Study
\$34,194	Total Project Cost





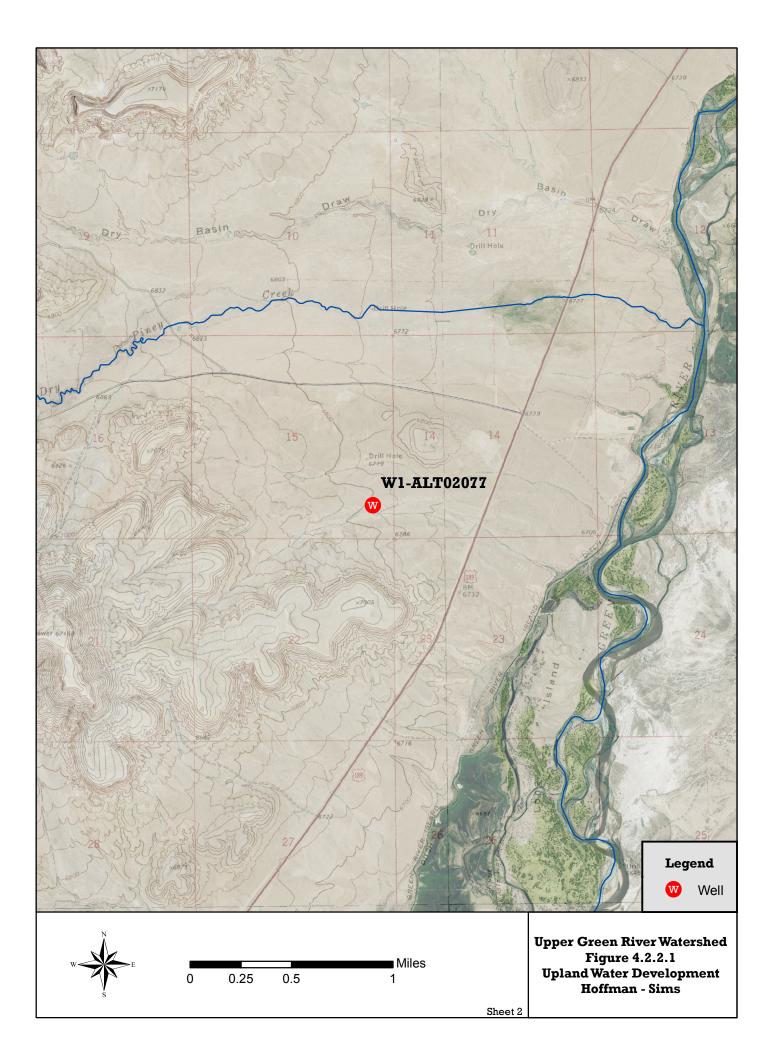
Upper Green Watershed Study Level I Upland Water Development

# Photographs

Hoffman-Sims W4-Donated Well



Well in fenced area





 
 Owner/Operator
 Hoffman-Sims

 Site Name
 W1-Tower Well

 Type Of Project
 Well

 Notes/Description
 Name: Tower Well -ALT02077 Location: 42° 24'12.70"N, 110° 07' 57.50"W

Description: This site near the microwave towers has previously been identified by BLM as a potential well site. At present an earthen basin exists on the site and there are no other improvements. A high voltage Rocky Mountain Power line traverses near the site, however, a step down substation would be required. A solar setup is likely the best power source provided the required lift is within range of a solar pump. The Office of State Lands and Investments has budgeted some funds for this project under their grazing program.

Proposed Project:

1) Install well and a storage tank

2) Level controls on the storage tank to operate well

3) Install troughs (2) and automatic fill valves on each trough

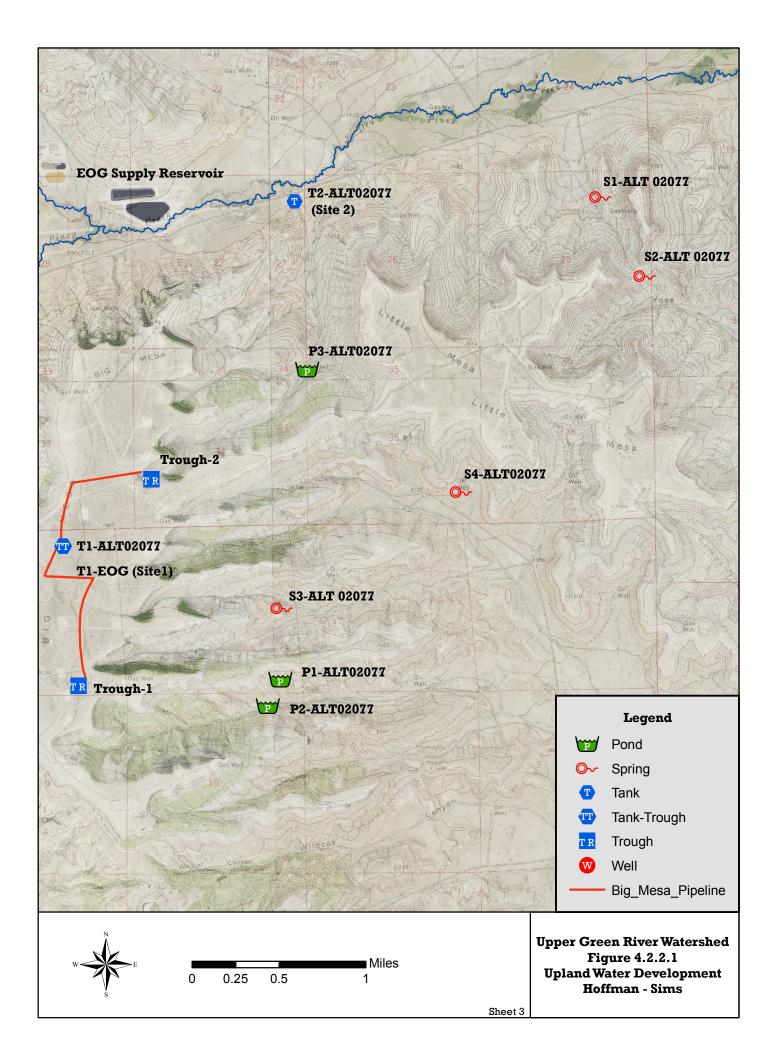
### ITEMIZED COST ESTIMATE

CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	New Well	250	L.F.	\$87.00	\$21,750
2	New Well Controls	1	LS	\$260.00	\$260
3	5000 Gallon Storage Tank on Skids	5,000	Gal.	\$2.00	\$10,000
4	Tank Appurtenances & Hardware	1	LS	\$1,750.00	\$1,750
5	4-20 mA Conduit From Pump Control Panel	40	LF	\$11.00	\$440
6					
7	Pressure Transducer	1	Each	\$1,220.00	\$1,220
8	Trough	2	Each	\$1,934.00	\$3,868
9	Solar Power Source	1,400	Watts	\$6.90	\$9,660
			-	atal Constantian Cost	ć 40.040

Total Construction Cost \$48,948

Construction Permits	\$300
Performance Bond	\$500
Insurance	\$300
15% O&P	\$7,400
Subtotal	\$8,500
Subtotal	\$57,448
Construction Engineering @ 10% of Subtotal #1	\$5,745
Subtotal	\$63,193
Contingency @ 15% of Subtotal #2	\$9,479
Total Construction Cost	\$72,672
Preparation of Final Designs and Specifications	\$5,814
Permitting @ 3% of Project Cost	\$2,180
Legal @ 4% of Project Cost	\$2,907
Environmental Study	\$9,000
Total Project Cost	\$92,572





Owner/Operator	Hoffman-Sims
Site Name	T1-EOG, Tanks and Trough
Type Of Project	Trough and Tank

Notes/Description Name: EOG, Tanks and Trough

#### Location: 42° 21'40.5"N, 110° 16' 27.4"W (site 1), 42° 23'23.5"N, 110° 14' 52.6"W (site 2)

Description: This site is an operating tank supplied by a reservoir owned by EOG. Water is pumped by EOG from near T2 up to the T1 tank site. The T1-EOG tank supplies water to a local trough near the tank. The trough level is controlled by a float valve.

Proposed Project: This site could be improved by addition of a second and third trough supplied by the same pump. The troughs would be located north and south of the current trough. Additional storage at the T1-EOG tank might also improve the supply reliability and allow additional stock to remain on top of the mesa, however for this estimate no additional storage is budgeted.

#### ITEMIZED COST ESTIMATE

CONSTRUCTION COSTS

	Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	1	Controls & Appurtenances for Existing Tank	1	LS	\$3,410.00	\$3,410
	2	WaterTrough	2	Each	\$1,934.00	\$3,868
[	3	1-1/2" HDPE Piping (shallow cover)	9,900	LF	\$4.00	\$39,600
Total Construction Cost					\$46.878	

INCIDENTAL PROJECT COSTS

Construction Permits	\$300
Performance Bond	\$500
Insurance	\$300
15% O&P	\$7,100
Subtotal	\$8,200
Subtotal	\$55,078
Construction Engineering @ 10% of Subtotal #1	\$5,508
Subtotal	\$60,586
Contingency @ 15% of Subtotal #2	\$9,088
Total Construction Cost	\$69,674
Preparation of Final Designs and Specifications	\$5,574
Permitting @ 3% of Project Cost	\$2,090
Legal @ 4% of Project Cost	\$2,787
Environmental Study	\$6,000
Total Project Cost	\$86,125

SITE PHOTO: Existing T1 tank site to receive Instrumentation, additional troughs north and south of this site are proposed.



Upper Green Watershed Study Level I Upland Water Development

# Photographs

Hoffman-Sims T1-EOG, Tanks and Trough



Site 1







Site 1

Location to be Determined

Site 2

Hoffman-Sims



Owner/Operator Site Name Type Of Project Notes/Description

S1 to S4-Spring Sites Spring

Name: Spring Sites -ALT02077 Location: 42° 23'23.85"N, 110° 12' 48.48"W (spring 1), 42° 22'60"N, 110° 12' 31"W (spring 2), 42° 21'21.34"N, 110° 14'59.08"W (spring 3), 42° 22'55.70"N, 110° 13'46.14"W (spring 4)

Description: These springs, located on BLM property, are fed by winter precipitation. Each spring has a production rate less than one gpm.

Proposed Project: Each spring would be developed by installation of a slotted 6" collection pipe that runs to a 100 gallon +/- collection vault. The vault outlet will be piped to a trough located downslope of the spring.

# ITEMIZED COST ESTIMATE CONSTRUCTION COSTS PER SPRING

		O serie			
Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Exploratory Excavation	15	CY	\$10.00	\$150
2	Trench Geotextile Liner	50	SY	\$6.00	\$300
3	Trench Backfill w/ Drain Rock	10	CY	\$36.00	\$360
4	6" Trench Collection Pipe	30	LF	\$8.00	\$240
5	Spring Box	1	Each	\$1,050.00	\$1,050
6	2" HDPE Spring Line to Vault	100	LF	\$6.00	\$600
7	2" HDPE Spring Overflow Line	50	LF	\$6.00	\$300
8	WaterTrough & Appurtenances	1	Each	\$1,934.00	\$1,934
9	Final Grading	250	SF	\$1.50	\$375
10	Reseeding	250	SF	\$0.10	\$25
	Sub		Subtotal Spring Construction	\$5,334	
	Total Spring Development Costs	4	Each	\$5,334.00	\$21,336

Construction Permits	\$200
Performance Bond	\$300
Insurance	\$200
15% O&P	\$3,300
Subtotal	\$4,000
Subtotal	\$25,336
Construction Engineering @ 10% of Subtotal #1	\$2,534
Subtotal	\$27,870
Contingency @ 15% of Subtotal #2	\$4,180
Total Construction Cost	\$32,050
Preparation of Final Designs and Specifications	\$2,564
Permitting @ 3% of Project Cost	\$962
Legal @ 4% of Project Cost	\$1,282
Environmental Study	\$6,000
Total Project Cost	\$42,858

Upper Green Watershed Study Level I Upland Water Development

## Photographs

Hoffman-Sims S1 to S4-Spring Sites



Spring 1



Spring 3 - Trees in distance







Spring 1 near shrub



Spring 4 on slope below bush



 Owner/Operator
 Hoffman-Sims

 Site Name
 P1 to P3 - Ponds at Multiple Locations

 Type Of Project
 Storage Ponds

 Notes/Description
 Name: Precipitation Storage Pond/Reservoir Sites on ALT 02077

 Location: 42° 21'N, 110° 15'W(P1 ALT02077), 42° 20' 52"N, 110° 15' 5.19" W(P2 ALT02077) 42° 22' 33"N

 110° 14' 48"W(P3-ALT02077)

Description: The east side of the mesa contains 6 or 7 draws which appear to produce excess water in spring and during precipitation events. At least three of these draws could be dammed by small embankments to store precipitation. Also in this vicinity, two earthen basins have significant silt deposits that must be excavated.

Proposed Project: This site could be improved by addition of 3 small dams, < 20' in height, which would be constructed in the 3 best draws. Several existing earthen basins require cleaning to restore precipitation storing.

## ITEMIZED COST ESTIMATE

CONSTRUCTION COSTS (Assumed dam height of 20', base width of 110' and base length of 100')

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Stockpiling and Restoring Topsoil	200	CY	\$10.00	\$2,000
2	Excavation of Overburden	350	CY	\$10.00	\$3,500
3	Dam Embankment	4,500	CY	\$6.00	\$27,000
4	Overflow Structure	1	LS	\$1,500.00	\$1,500
5	Compaction & Material Testing	1	LS	\$3,000.00	\$3,000
6	Reseeding	11,000	SF	\$0.10	\$1,100
			Subt	total Dam Construction	\$38,100
	Total of 3 Small Dams	3	Each	\$38,100.00	\$114,300
7	Clean Earthen Basins	2	Each	\$4,000.00	\$8,000
			1	Total Construction Cost	\$122,300

INCIDENTAL PROJECT COSTS

<b>Construction Permits</b>	\$1,000
Performance Bond	\$2,000
Insurance	\$1,000
15% O&P	\$19,000
Subtotal	\$23,000

Subtotal \$145,300

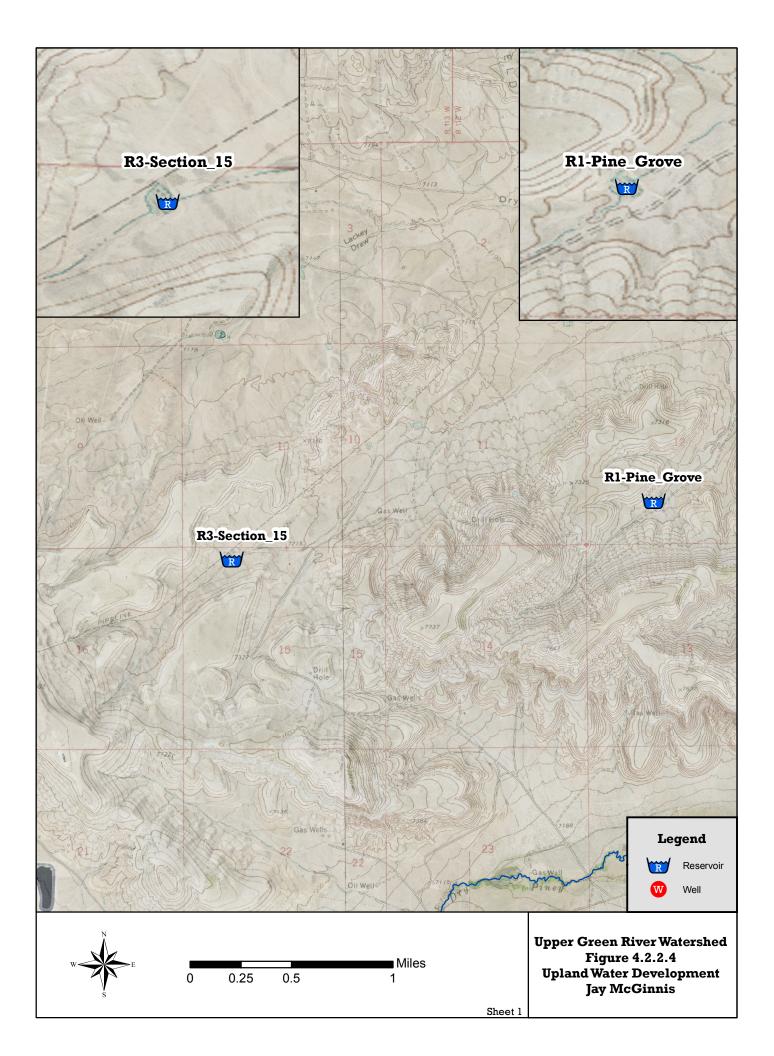
Construction Engineering @ 10% of Subtotal #1 \$14,530

Subtotal \$159,830

Contingency @ 15% of Subtotal #2 \$23,975

Total Construction Cost \$183,805

Preparation of Final Designs and Specifications	\$14,704
Permitting @ 3% of Project Cost	\$5,514
Legal @ 4% of Project Cost	\$7,352
Environmental Study	\$23,000
Total Project Cost	\$234,375





 Owner/Operator
 Jay McGinnis

 Site Name
 R1-Pine Grove Reservoir

 Type Of Project
 Reservoir

 Notes/Description
 Name: Pine Grove Reservoir

Location: -110.220674°, 42.424075°

Description: This reservoir is a clay lined 0.8 acre reservoir supplied by the drainage. The pond liner has been damaged to the point storage of water is marginal.

Proposed Project: The reservoir project would consist of grubbing and relining the existing pond foot print of 0.8 acres with imported low permeability material and any existing liner material that might be salvaged. In addition, rock armored access ramps would be constructed at two locations.

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Grubbing	0.8	Acres	\$5,000.00	\$4,000
2	Imported Material	645	CY	\$20.00	\$12,900
3	Grade and Replace Liner	645	CY	\$8.00	\$5,160
4	Rock Access Ramps	100	CY	\$40.00	\$4,000
5	Materials Testing	1.0	LS	\$1,500.00	\$1,500
			C	onstruction Total	\$27,560

#### INCIDENTAL PROJECT COSTS

Subtotal	\$6,012
15% O&P	\$4,134
Insurance @ .5%	\$200
Performance Bond @ 1%	\$300
Construction Permits @ .5%	\$200

- Subtotal \$33,572
- Construction Engineering @ 10% of Subtotal #1 \$3,357

Subtotal \$36,929

- Contingency @ 15% of Subtotal #2 \$5,539
  - Total Construction Cost \$42,468
- Preparation of Final Designs and Specifications \$4,000
  - Permitting @ 3% of Project Cost \$2,000
    - Legal @ 4% of Project Cost \$2,000
      - Environmental Study \$0
        - Total Project Cost \$50,468



Owner/OperatorJay McGinnisSite NameR3-Section 15 ReservoirType Of ProjectReservoirNotes/DescriptionName: Section 15 Reservoir

Location: T28N R113W, Section 15, 42° 25' 13.1"N, 110° 15' 42.5"W

Description: This reservoir has undergone siltation and no longer holds its design volume of water.

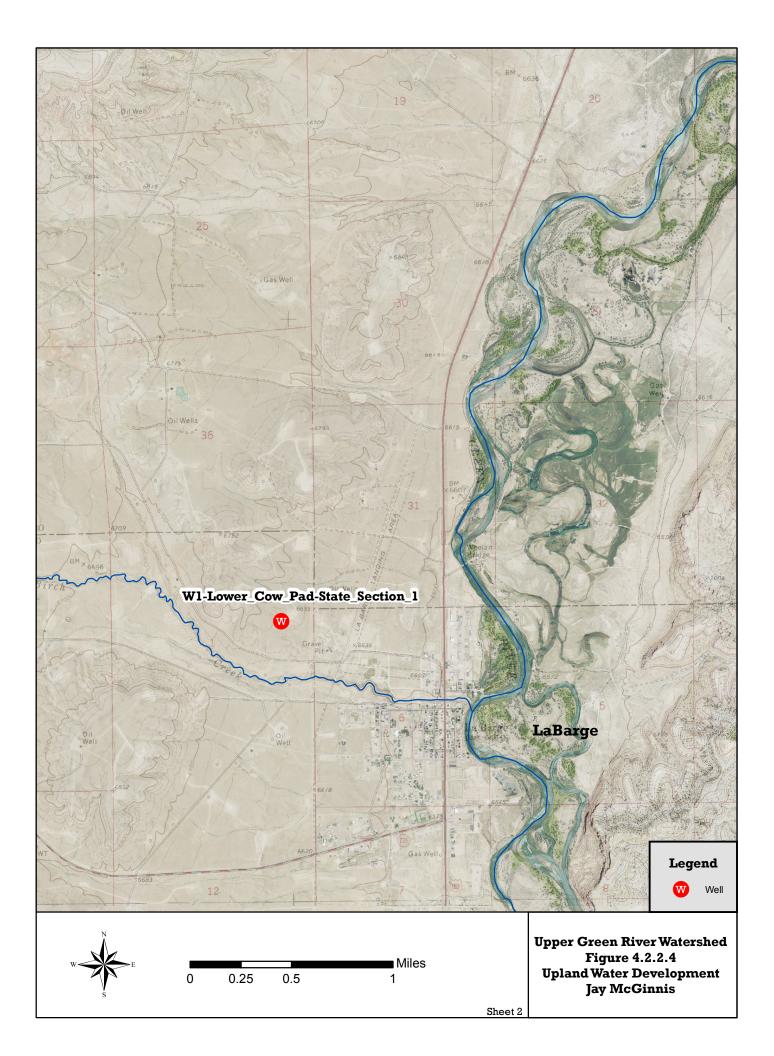
Proposed Project: The proposed project would remove about 3,500 cubic yards of material from the 1 acre pool area. Stockpiled material will create a substantial embankment or pile and will impact the area outside the footprint of the reservoir. Should the volume prove too great to manage, a smaller removal volume will be proposed.

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Grubbing	1.0	Acres	\$5,000.00	\$5,000
2	Silt Removal and Embankment	3,500.0	CY	\$10.00	\$35,000
3	Imported Liner Material	810	CY	\$20.00	\$16,200
4	Grade and Place Liner	810	CY	\$8.00	\$6,480
5	Rock Access Ramps	100	CY	\$40.00	\$4,000
6	Materials Testing	1.0	LS	\$1,700.00	\$1,700
				<b>Construction Total</b>	\$68,380

#### CONSTRUCTION COSTS

Construction Permits @ .5% Performance Bond @ 1% Insurance @ .5%	\$400 \$700 \$400
15% O&P Subtotal	\$10,257 <b>\$11,757</b>
Subtotal	\$80,137
Construction Engineering @ 10% of Subtotal #1	\$8,014
Subtotal	\$88,151
Contingency @ 15% of Subtotal #2	\$13,223

- Total Construction Cost \$101,373
- Preparation of Final Designs and Specifications \$9,000
  - Permitting @ 3% of Project Cost \$4,000
    - Legal @ 4% of Project Cost \$5,000
      - Environmental Study \$10,000
        - Total Project Cost \$129,373



## Upper Green Watershed Study Level I **Upland Water Development Engineer's Opinion of Probable Construction Costs**



Owner/Operator Jay McGinnis Site Name W1-Lower Cow Pad - State Section 1 Type Of Project Well Notes/Description Name: Lower Cow Pad - State Section

Location: T26N R113W, Section 1; -110.21000, 42.2700

Description: At this site, near the Town of LaBarge, additional water is needed to ease water hauling operations and provide better animal distribution.

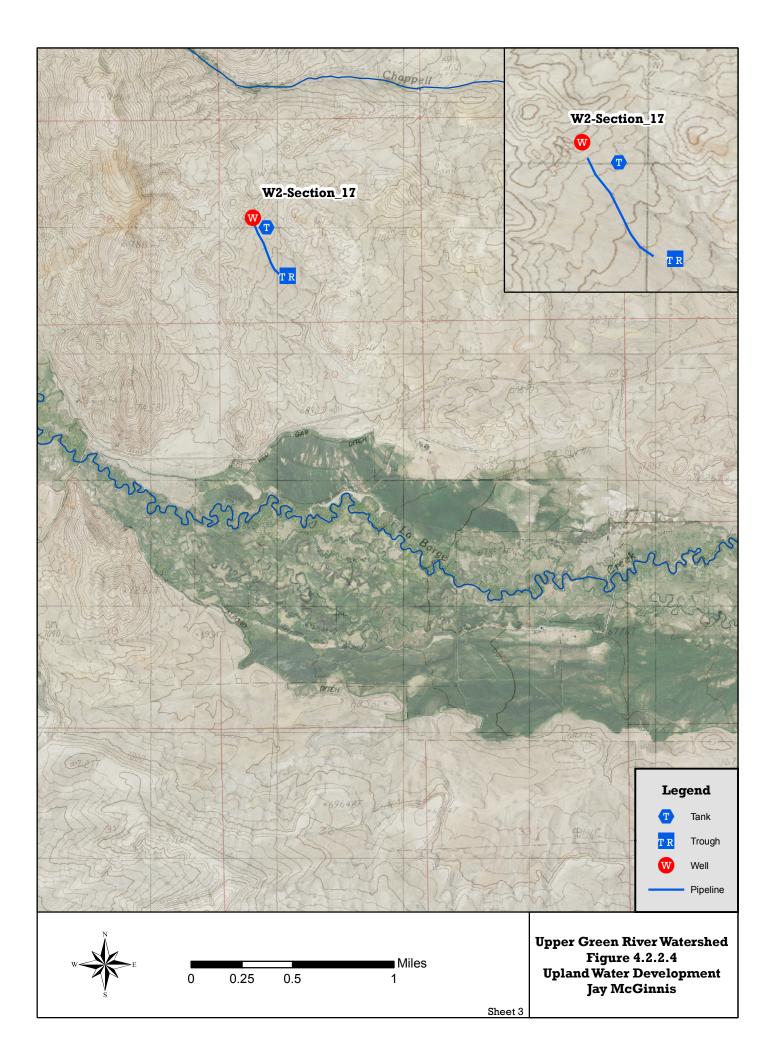
Proposed Project: A water source, in the form of a well, is proposed. The exact location is flexible. As the site is near LaBarge Creek and Green River, it is anticipated the depth may be less than 200'. The project will be powered by the grid and include a storage tank and trough.

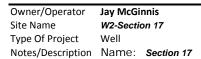
#### ITEMIZED COST ESTIMATE CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	New 250' Well	200	LF	\$87.00	\$17,400
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump System	1	LS	\$10,428.00	\$10,428
4	Power Supply	0.1	Mile	\$113,520.00	\$11,352
5	Storage Tank (5000 gallons)	5,000	Gal.	\$2.00	\$10,000
6	Water Trough	1	Each	\$1,934.00	\$1,934
7	2" HDPE Piping	2,000	LF	\$6.00	\$12,000
			(	<b>Construction Total</b>	\$66,754

Construction Permits @ .5% Performance Bond @ 1% Insurance @ .5% 15% O&P Subtotal	\$400 \$700 \$400 \$10,013 <b>\$6,012</b>
Subtotal	\$72,766
Construction Engineering @ 10% of Subtotal #1	\$7,277
Subtotal	\$80,042
Contingency @ 15% of Subtotal #2	\$12,006

- **Total Construction Cost** \$92,048
- Preparation of Final Designs and Specifications \$8,000
  - Permitting @ 3% of Project Cost \$3,000
    - Legal @ 4% of Project Cost \$4,000
      - Environmental Study \$10,000
        - Total Project Cost \$117,048







Location: T26N R113W, Section 17; -110.287097, 42.233327

Description: This section could benefit from additional water to ease water hauling operations and provide better animal distribution.

Proposed Project: This project is proposed as a solar well project with storage tank and troughs.

#### CONSTRUCTION COSTS

Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	New 250' Well	250	LF	\$87.00	\$21,750
2	Pump Test	14	Hours	\$260.00	\$3,640
3	Pump System	1	LS	\$10,428.00	\$10,428
4	Solar Power Supply	1.0	Each	\$9,624.00	\$9,624
5	Storage Tank (5000 gallons)	5,000	Gal.	\$2.00	\$10,000
6	Water Trough	2	Each	\$1,934.00	\$3,868
7	2" HDPE Piping	2,000	LF	\$6.00	\$12,000
			C	Construction Total	\$71,310

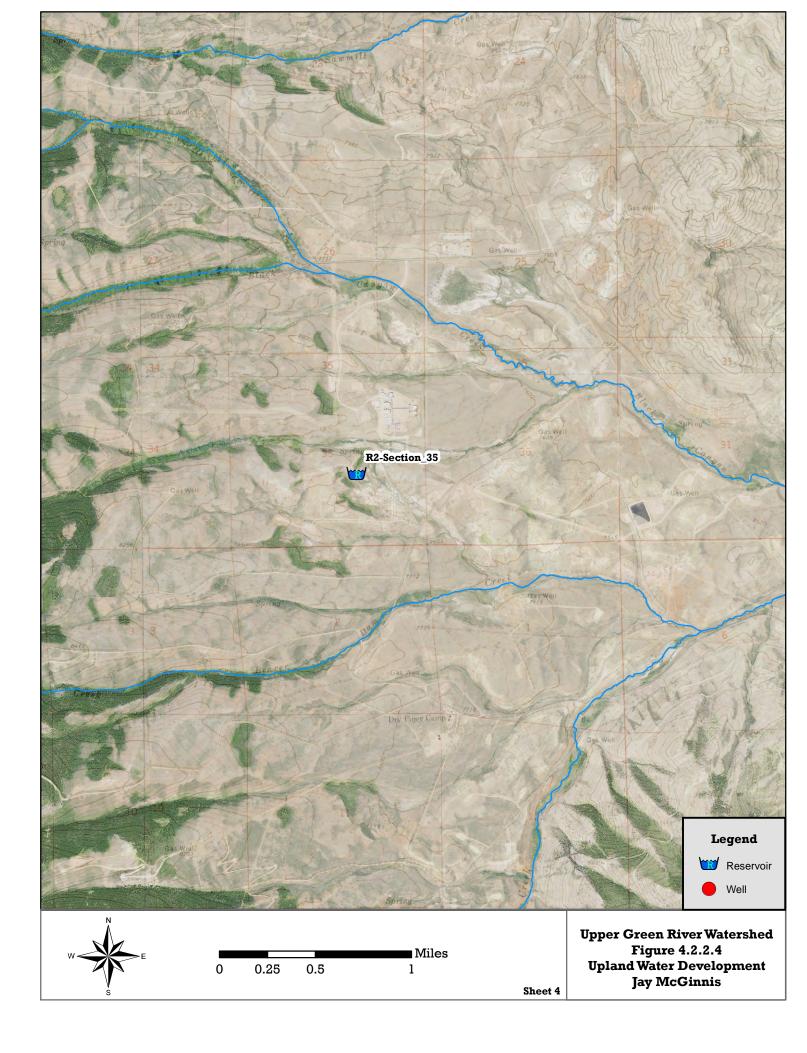
#### INCIDENTAL PROJECT COSTS

Construction Permits @ .5%	\$400
Performance Bond @ 1%	\$800
Insurance @ .5%	\$400
15% O&P	\$10,697
Subtotal	\$6,012

- Subtotal \$77,322
- Construction Engineering @ 10% of Subtotal #1 \$7,732

Subtotal \$85,054

- Contingency @ 15% of Subtotal #2 \$12,758
  - **Total Construction Cost** \$97,812
- Preparation of Final Designs and Specifications \$8,000
  - \$3,000 Permitting @ 3% of Project Cost
    - Legal @ 4% of Project Cost \$4,000 Environmental Study \$11,000
      - Total Project Cost \$123,812





Owner/OperatorJay McGinnisSite NameR2-Section 35 ReservoirType Of ProjectReservoirNotes/DescriptionName: Section 35 Reservoir

Location: T28N R114W, Section 35, (NWSE)

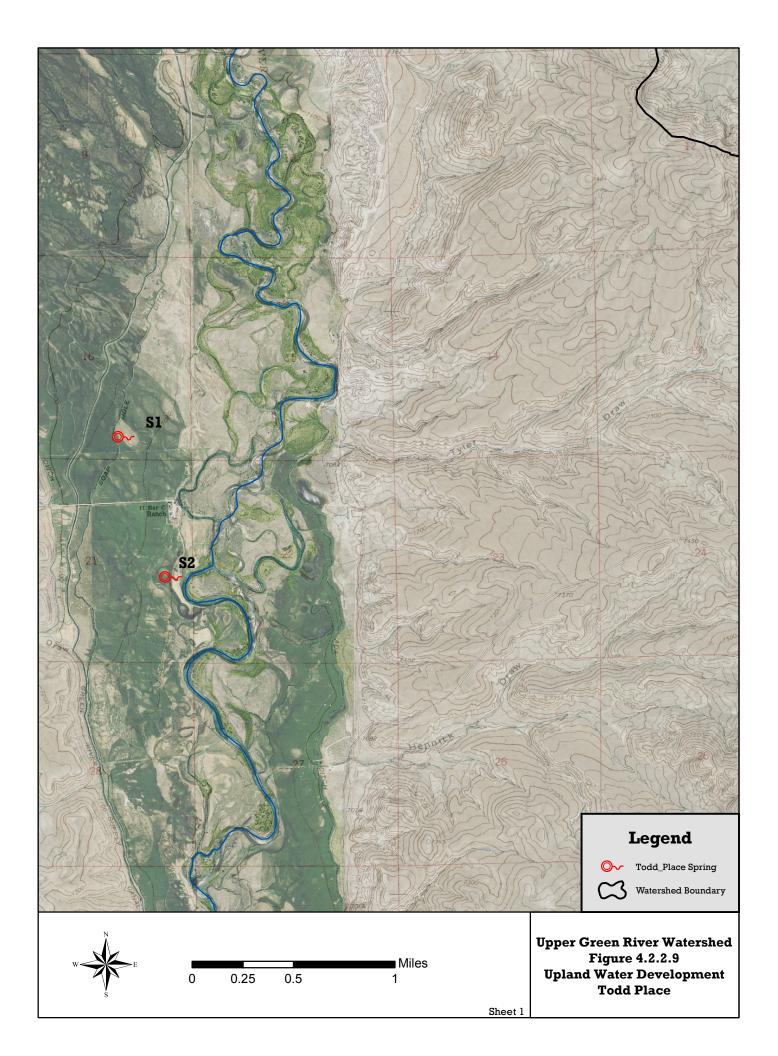
Description: This is an existing spring site that produces well. There is presently no storage for excess water.

Proposed Project: The project entails construction of a small lined pond below the spring. There is also potential to further develop the spring. The project would move animals away from the spring proper and protect its future use.

#### CONSTRUCTION COSTS (Pond Size of 0.2 Acres)

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Grubbing	0.2	Acres	\$5,000.00	\$1,000
2	Imported Material Over Liner	160	CY	\$20.00	\$3,200
3	30mil Liner	8,100	SF	\$2.15	\$17,415
4	Embankment	2,000.0	CY	\$10.00	\$20,000
5	Spring Development	1.0	LS	\$3,303.00	\$3,303
			C	onstruction Total	\$44,918

- Construction Permits @ .5%\$300Performance Bond @ 1%\$500Insurance @ .5%\$300
  - 15% O&P \$6,738 Subtotal \$6,012
    - Subtotal \$50,930
- Construction Engineering @ 10% of Subtotal #1 \$5,093
  - Subtotal \$56,023
  - Contingency @ 15% of Subtotal #2 \$8,403
    - Total Construction Cost \$64,426
- Preparation of Final Designs and Specifications \$6,000
  - Permitting @ 3% of Project Cost \$2,000
    - Legal @ 4% of Project Cost \$3,000
      - Environmental Study \$7,000
        - Total Project Cost \$82,426





Owner/Operator Todd Site Name Todd Place Springs Type Of Project Spring Development Notes/Description Name: Todd Place Springs

Location: -109.985288, 42.824574 and -109.980866, 42.814507

Description: These two sites are lower elevation spring sites located on the Todd Place. One of the sites is largely a bog and difficult for stock to access. The water quality is degredated by foot traffic and could be improved by a project.

Proposed Project: The proposed project is to develop both springs into clean water sources by installing a cutoff trench, collection pipe and trough.

CONSTRU	CTION COSTS				
Item #	Description	Quantity	Unit	Unit Cost	<b>Total Cost</b>
1	Exploratory Excavation	15	CY	\$10.00	\$150
2	Trench Geotextile Liner	50	SY	\$6.00	\$300
3	Trench Backfill w/ Drain Rock	10	CY	\$36.00	\$360
4	6" Trench Collection Pipe	30	LF	\$8.00	\$240
5	Spring Box	1	Each	\$1,050.00	\$1,050
6	2" HDPE Spring Line to Vault	100	LF	\$6.00	\$600
7	2" HDPE Spring Overflow Line	50	LF	\$6.00	\$300
8	WaterTrough & Appurtenances	1	Each	\$1,934.00	\$1,934
9	Final Grading	250	SF	\$1.50	\$375
10	Reseeding	250	SF	\$0.10	\$25
11	2" HDPE Pipe	500	LF	\$6.00	\$3,000
			Subtotal	Spring Construction	\$8,334
	Total Spring Development Cost	2	Each	\$8,334.00	\$16,668

#### ITEMIZED COST ESTIMATE CONSTRUCTION COST

#### INCIDENTAL PROJECT COSTS

Subtotal	\$3,000
15% O&P	\$2,600
Insurance @ .5%	\$100
Performance Bond @ 1%	\$200
Construction Permits @ .5%	\$100

- Subtotal \$19,668
- Construction Engineering @ 10% of Subtotal #1 \$1,967
  - Subtotal \$21,635
  - Contingency @ 15% of Subtotal #2 \$3,245

#### **Total Construction Cost** \$24,880

- Preparation of Final Designs and Specifications \$2,239
  - Permitting @ 8% of Project Cost \$1,990
    - Legal @ 4% of Project Cost \$995 Environmental Study
      - \$0
      - **Total Project Cost** \$30,105





Owner/OperatorJoc SaxtonSite NameBarn Creek, P12809.DType Of ProjectDiversion Headgate StructureNotes/DescriptionName: Diversion

Location: 43.022873N, -110.114780W

Description: This site on the north side of the Green River 0.3 miles upstream of the Warren Bridge, is an existing headgate and 100' rock revetment constructed to divert water into the ditch. It is presently outfitted with one 48" gate, wooden headwall and tailwalls. The tailwalls are eroded and a culvert was installed in the tailrace to prolong the life of the structure. The rock dam in the river is in poor condition, constructed of small rocks and does not hold adequate head on the headgate. In high flow periods the structures floods over and around the gate making it inaccessible and causing erosion.

Proposed Project: The project includes demolition of the aging structure and construction of a new structure about one foot lower in floor elevation to allow a higher percentage of the gate capacity to be utilized. The old gate will be reused however a new concrete structure is proposed. The rock weir in the river will be augmented with larger rock. Two feet of silt and sediment along the 100' long inlet channel will be removed.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Demolition and Removal of Old Structure and Grading	1	LS	\$3,000.00	\$3,000
2	Footing and Turndown	10	CY	\$300.00	\$3,000
3	Vertical Walls	10	CY	\$400.00	\$4,000
4	Stop Log Slots	1	LS	\$500.00	\$500
5	48" x 48" Slide Gates Salvage and Reinstall	1	Each	\$800.00	\$800
6	Backfil New Structure	1	LS	\$800.00	\$800
7	Repair Rock Check Structure	1	LS	\$4,000.00	\$4,000
8	Remove Sediment	100	LF	\$15.00	\$1,500
9	6"-12" Rip Rap	10	CY	\$125.00	\$1,250
			Constru	ction Total	\$18,850

#### CONSTRUCTION COSTS

\$100	Construction Permits
\$200	Performance Bond
\$100	Insurance
\$2,828	15% O&P
\$3,228	Subtotal
\$22,078	Subtotal
\$2,208	Construction Engineering @ 10% of Subtotal #1
\$24,285	Subtotal
\$3,643	Contingency @ 15% of Subtotal #2
\$27,928	Total Construction Cost
\$2,234	Preparation of Final Designs and Specifications
\$1,396	Permitting @ 5% of Project Cost
\$1,350	Legal @ 4% of Project Cost

- Legal @ 4% of Project Cost \$1,117 Environmental Study \$3,000
  - Total Project Cost \$35,676

Upper Green Watershed Study Level I Irrigation System Rehabilitation

# Photographs

Joc Saxton Barn Creek, P12809.D









Owner/Operator Joc Saxton Site Name Bickel Ditch, P2287.D Type Of Project Diversion Headgate Structure Notes/Description Name: Diversion

Location: 43.023376N, -110.105339W

Description: This site on the south side of the Green River 0.8 miles upstream of the Warren Bridge, is an existing headgate and 300' rock push-up dam constructed to divert water into the ditch. It is presently outfitted with one 48" gate mounted on a straight concrete headwall. There are not wing walls or tailwalls. The rock dam in the river is in poor condition, constructed of small rocks and does not hold adequate head on the headgate. The inlet to the headgate and downstream channel require silt removal. One section along the campground west of Warren Bridge is prone to break and is in need of reinforcing.

Proposed Project: The project includes limited reinforcement of the rock weir in the river to improve reliability. Two feet of silt and sediment removal along the 240' long inlet channel will be removed. Maintenance removal of downstream silt is also recommended. Along the campground the channel will be reinforced with additional soil on the off embankment.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Repair Rock Check Structure	1	LS	\$8,000.00	\$8,000
2	Removal of Sediment in Inlet Channel	150	CY	\$15.00	\$2,250
3	Regrading/Maintenance of Downstream Ditch	4,200	LF	\$8.00	\$33,600
4	Reinforcing of Off Side Bank at Campground	1,300	LF	\$10.00	\$13,000
5					
6					
7					
8					
9					
			Constru	ction Total	\$56,850

#### CONSTRUCTION COSTS

Construction Permits Performance Bond Insurance 15% O&P Subtotal	\$300 \$600 \$300 \$8,528 <b>\$9,728</b>
Subtotal	\$66,578
Construction Engineering @ 10% of Subtotal #1	\$6,658
Subtotal	\$73,235
Contingency @ 15% of Subtotal #2	\$10,985
Total Construction Cost	\$84,221
Preparation of Final Designs and Specifications Permitting @ 5% of Project Cost Legal @ 4% of Project Cost Environmental Study Total Project Cost	\$6,738 \$4,211 \$3,369 \$6,000 <b>\$104,538</b>

Upper Green Watershed Study Level I Irrigation System Rehabilitation

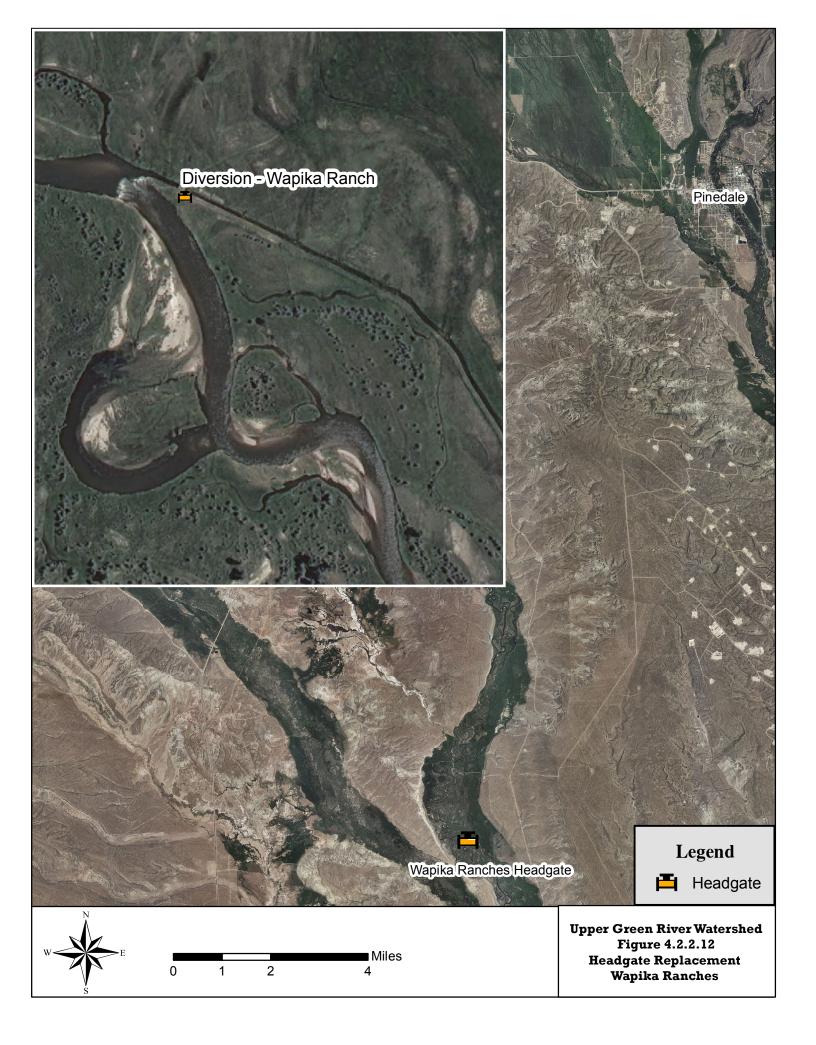
# Photographs

Joc Saxton Bickel Ditch, P2287.D











Owner/OperatorWapika RanchesSite NameHarman Ditch P2274.DType Of ProjectDiversion Headgate StructureNotes/DescriptionName: Diversion

Location: 42.673847N, 109.972235W

Description: This site on the East side of the Green River, is an existing headgate and rock weir constructed to divert water into the ditch. It is presently outfitted with two 48" gates with concrete headwall and tailwalls. The tailwalls are eroded and culverts were installed in each tailrace to prolong the life of the structure. The rock dam in the river is in good condition however as the river has cut down over past years it has become impossible to construct the rock weir to a height that keeps adequate water levels at the headgate. The headgate now sits to high on the upstream side to allow full capacity of the structure. On the downstream side it is also about two feet higher than the canal.

Proposed Project: The project includes demolition of the aging structure and construction of a new structure about two feet lower in floor elevation to allow a higher percentage of the gate capacity to be utilized. The old gates will be reused, however, a new concrete structure will be required.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
1	Demolition and Removal of Old Structure and Grading	1	LS	\$8,000.00	\$8,000
2	Footing and Turndown	12	CY	\$300.00	\$3,600
3	Vertical Walls	15	CY	\$400.00	\$6,000
4	Stop Log Slots	1	LS	\$500.00	\$500
5	48" x 48" Slide Gates Salvage and Reinstall	2	Each	\$800.00	\$1,600
6	Backfil New Structure	1	LS	\$800.00	\$800
7	Repair Rock Check Structure	-	LS	\$4,000.00	\$0
8	Regrade Ditch	-	LF	\$10.00	\$0
9	6"-12" Rip Rap	10	CY	\$125.00	\$1,250
			Constru	ction Total	\$21,750

#### CONSTRUCTION COSTS

#### INCIDENTAL PROJECT COSTS

\$200
\$300
\$200
\$3,263
\$3,963
\$25,713
\$2,571
\$28,284
\$4,243
\$32,526
\$2,602
\$1,626
\$1,301
\$0

Total Project Cost \$38,056

Upper Green Watershed Study Level I Irrigation System Rehabilitation

# Photographs

Wapika Ranches Harman Ditch P2274.D



Approach Channel to headgate



Downsteam headgate



Solar well



Push up dam



Upstream headgate



Cold weather waterer under construction

#### Upper Green Watershed Level I Study

#### Upland Water Development

Item #

Engineer's Opinion of Probable Construction Costs

## Note: Costs on this page are incorporated as lump sum items on the individual landowner cost estimates.





8/12/2014 FDK

Date: Prepared By: Checked By:

				Unit Costs		С	omponent Cos	ts	1		
Description	Quantity	Unit	Material	Labor	Equip	Material	Labor	Equip		Total	Comments

Well	Development
-	

	Well Development										
	New Well										
1	Grade Access to Well Site	1	LS		\$250.00	\$500.00	\$0	\$250.00	\$500.00	\$750	
2	14" Hole Drilled Surface Seal	20	LF		\$20.00	\$26.00	\$0	\$400.00	\$520.00	\$920	
3	12" Casing Surface Seal	20	LF	\$18.00	\$16.00	\$10.00	\$360	\$320	\$200	\$880	
4	12" Drive Shoe	1	EACH	\$680.00	\$50.00		\$680	\$50	\$0	\$730	
5	Bagged Cement Surface Seal	30	BAG	\$35.00	\$5.00		\$1,050	\$180	\$0	\$1,230	
6	8" Hole Drilled	250	LF		\$6.00	\$16.00	\$0	\$1,500	\$4,000	\$5,500	
7	8" Casing	250	LF	\$12.00	\$8.00	\$10.00	\$3,000	\$2,000	\$2,500	\$7,500	
8	8" Drive Shoe	1	EACH	\$250.00	\$50.00		\$250	\$50	\$0	\$300	
9	Perforations	1	LS		\$250.00	\$500.00	\$0	\$250	\$500	\$750	
10	Development With Rig	6	HR		\$200.00	\$225.00	\$0	\$1,200	\$1,350	\$2,550	
11	Concrete Surface Pad	1	EACH	\$75.00	\$200.00	\$20.00	\$75	\$200	\$20	\$295	
12	Well Cap with Vent	1	LS	\$300.00	\$75.00		\$300	\$75	\$0	\$375	
13							\$0	\$0	\$0	\$0	
									Subtotal	\$21,780	

	Pump Test										
14	Mobilization	1	LS		\$1,200.00	\$300.00	\$0	\$1,200	\$300	\$1,500	
15	Step Test	8	HR	\$40.00	\$75.00	\$150.00	\$320	\$600	\$1,200	\$2,120	
16	Continious Test	6	HR	\$40.00	\$75.00	\$150.00	\$240	\$450	\$900	\$1,590	
									Subtotal	\$5,210	

	Pump System ( 2 to 6 gpm)										
17	Pitless Adapter	0	EACH	\$600.00	\$200.00	\$120.00	\$0	\$0	\$0	\$0	
18	Pump	1	EACH	\$800.00	\$100.00		\$800	\$100	\$0	\$900	
	Motor	1	EACH	\$900.00	\$100.00		\$900	\$100	\$0	\$1,000	
20	2" Black Steel Column Pipe	250	LF	\$6.00	\$1.25	\$1.00	\$1,500	\$313	\$250	\$2,063	
21	Pump Control Panel/PLC	1	EACH	\$3,200.00	\$600.00		\$3,200	\$600	\$0	\$3,800	
	Pump Power Supply Cable	300	L.F.	\$5.50	\$0.30		\$1,650	\$90	\$0	\$1,740	
23	1/2" Water Level Indicator Tube	250	L.F.	\$2.00	\$0.20		\$500	\$50	\$0	\$550	
24	Check Valve	1	EACH	\$350.00	\$25.00		\$350	\$25	\$0	\$375	
									Subtotal	\$10,428	

	Solar Power Supply										
24	Solar Panel(s) (1,400 watts total)	6	EACH	\$450.00	\$200.00	\$80.00	\$2,700	\$1,200	\$480	\$4,380	
25	Panel Support Post(s) and Cross Arms	2	EACH	\$600.00	\$100.00	\$50.00	\$1,200	\$200	\$100	\$1,500	
	Solar Charge Controller	1	EACH	\$475.00	\$100.00		\$475	\$100	\$0	\$575	
27	Backup Battery(s)	4	EACH	\$400.00	\$36.00		\$1,600	\$144	\$0	\$1,744	
28	Power Inverter	1	EACH	\$800.00	\$120.00		\$800	\$120	\$0	\$920	
	Current Booster	1	EACH	\$180.00	\$100.00		\$180	\$100	\$0	\$280	
30	Disconnect	1	EACH	\$75.00	\$150.00		\$75	\$150	\$0	\$225	
									Subtotal	\$9,624	

	120/240 Power Supply (Cost per Mile)										
31	Power Extension	5,280	LF	\$4.00	\$6.00	\$10.00	\$21,120	\$31,680	\$52,800	\$105,600	
32	Power Interconnection	1	EACH	\$1,500.00	\$1,500.00	\$200.00	\$1,500	\$1,500	\$200	\$3,200	
33	Power Drop and Transformer	1	EACH	\$2,400.00	\$800.00	\$200.00	\$2,400	\$800	\$200	\$3,400	
34	Meter Base	1	EACH	\$600.00	\$300.00	\$50.00	\$600	\$300	\$50	\$950	
35	Disconnect	1	EACH	\$150.00	\$200.00	\$20.00	\$150	\$200	\$20	\$370	
									Subtotal	\$113.520	

#### Spring Development

34	Exploratory Excavation	15	CY		\$4.00	\$6.00	\$0	\$60	\$90	\$150	
	Trench Geotextile Liner	50	SY	\$2.75	\$3.25		\$138	\$163	\$0	\$300	
36	Trench Backfill with Drain Rock	10	CY	\$32.00	\$4.00	\$3.00	\$320	\$40	\$30	\$390	
37	4" Trench Collection Pipe	30	LF	\$1.75	\$2.00		\$53	\$60	\$0	\$113	
38	Spring Box	1	Each	\$400.00	\$300.00	\$350.00	\$400	\$300	\$350	\$1,050	
39	2" HDPE Spring Line to Tank	100	LF	\$2.00	\$1.00	\$3.00	\$200	\$100	\$300	\$600	
	2" HDPE Spring Overflow Line	50	LF	\$2.00	\$1.00	\$3.00	\$100	\$50	\$150	\$300	
41	Final Grading	250	SF		\$0.50	\$1.00	\$0	\$125	\$250	\$375	
42	Reseeding of Surface	250	SF	\$0.06	\$0.04		\$15	\$10	\$0	\$25	
43							\$0	\$0	\$0	\$0	
									Subtotal	\$3,303	

#### Storage and Distribution

	5000 Gallon Storage Tank										
44	5000 Gallon Storage Tank on Skids	1	Each	\$10,000.00	\$500	\$400	\$10,000	\$500	\$400	\$10,900	
45	Tank Appurtenances & Hardware	1	LS	\$850.00	\$900.00		\$850	\$900	\$0	\$1,750	
46	4-20 mA Conduit From Pump Control Panel	40	LF	\$5.00	\$2.40		\$200	\$96	\$0	\$296	
47							\$0	\$0	\$0	\$0	
48	Pressure Transducer	1	Each	\$1,100.00	\$120.00		\$1,100	\$120	\$0	\$1,220	
									Subtotal	\$14,166	

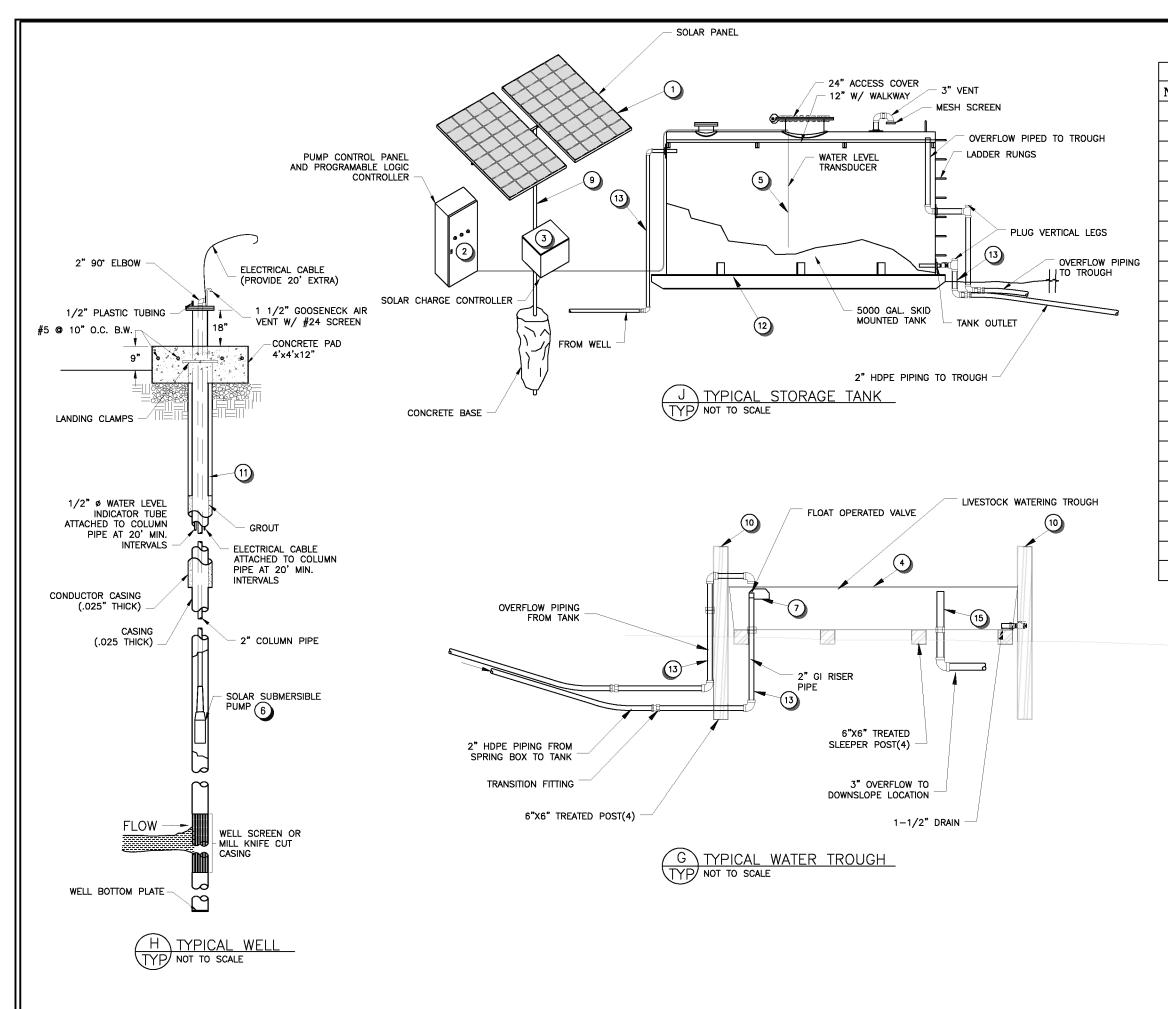
	Water Trough										
49	6x6 Sleeper Supports	4	Each	\$18.00	\$10		\$72	\$40	\$0	\$112	
50	4' x 12' Trough	1	Each	\$1,200.00	\$300.00		\$1,200	\$300	\$0	\$1,500	
51	Corner Posts	4	Each	\$18.00	\$30.00		\$72	\$120	\$0	\$192	
52	Float Operated Inlet Valve	1	Each	\$30.00	\$10.00		\$30	\$10	\$0	\$40	
53	Inlet, Overflow and Drain Piping	1	LS	\$50.00	\$40.00		\$50	\$40	\$0	\$90	
									Subtota	\$1,934	

### General Items Added on Individual Estimates

54 Coi	ntractor Mobilization	LS			\$0	\$0	\$0	\$0	
55 Equ	uipment Mobilization	EA			\$0	\$0	\$0	\$0	
56 Sur	rvey Crew, 3 Member crew	DAY			\$0	\$0	\$0	\$0	
57 Coi	ntractor Demobilization	LS			\$0	\$0	\$0	\$0	
58 Equ	uipment Demobilization	EA			\$0	\$0	\$0	\$0	

Upper Green Watershed Level I Study Upland Water Development			Note: Costs on this page are incorporated as lump sum items on the individual landowner cost estimates.								SUNRISE ENGINEERING	
Engineer's Opinion of Probable Construction Costs				Costs were developed using RS Means 2012 Heavy Construction Cost Guide, bid tabulations, verbal quotes from aggregate suppliers, and equipment quotes.								
									Date: Prepared By: Checked By:	8/12/2014 FDK		
			Unit Costs			Component Costs						
tem # Description	Quantity	Unit	Material	Labor	Equip		Material	Labor	Equip	Total	Comments	
59 Project Manager		WK					\$0	\$0	\$0	\$0		
60 Superintendent		WK					\$0	\$0	\$0	\$0		
61 Field Engineer		WK					\$0	\$0	\$0	\$0		
62 Secretary		WK					\$0	\$0	\$0	\$0		
63 Temporary Construction Office & Storage		LS					\$0	\$0	\$0 Subtotal	\$0 \$0		
						Co		ineering @ 109	ISURANCE @ .5% 15% O&P Subtotal Total % of Subtotal #1 Total		Subtotal #1 Subtotal #2	
							Con		% of Subtotal #2			
Other								r Project Costs				
											8% of total construction	
						Pr		ermitting @ 3% Legal @ 4% Envir	d Specifications of Project Cost of Project Cost ronmental Study		cost	
								To	otal Project Cost			

Note: The above unit costs were derived from the following sources: material supplier contacts, bid tabulations for similar components, and the RS Means 2012 Heavy Construction Cost Guide. The remote nature of many sites added to the unit costs based on the judgement of the estimator.

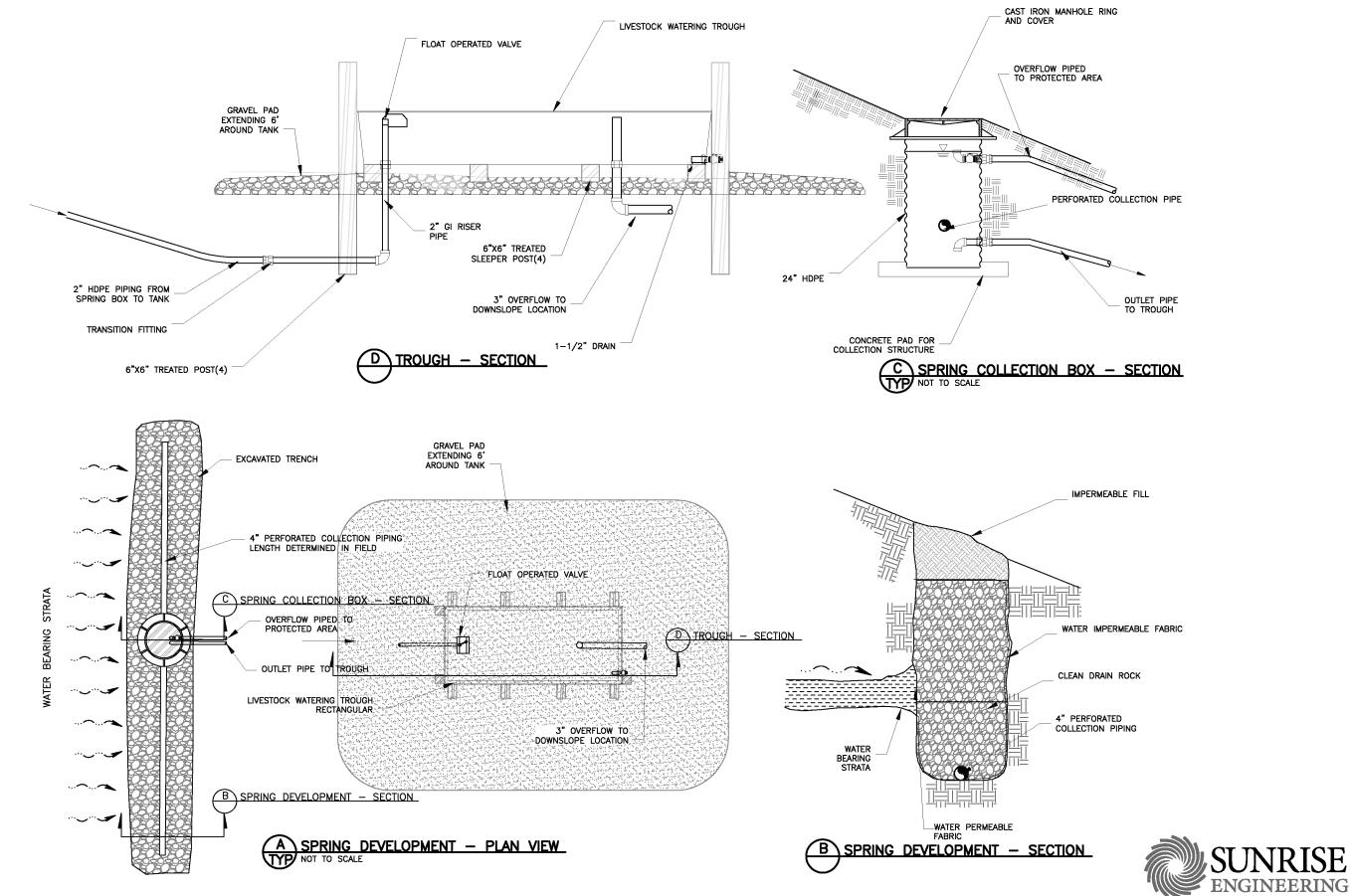


	EQUIPMENT SCHEDULE									
NO.	DESCRIPTION	SIZE/#	REMARKS							
1	SOLAR PANEL		SIZED BY PUMP DEMAND							
2	PUMP PANEL CONTROL	1	W/PLC							
3	SOLAR CHARGE CONTROLLER	1	BY PANEL MANUFACTURER							
4	TROUGH RDF		600 GALLON							
5	LEVEL SENSOR	1	W6400 BY GLOBAL WATER							
6	SOLAR SUBMERSIBLE PUMP	1	GRUNDFOS SQF SIZED BY DETAILED DESIGN							
7	FLOAT OPERATED VALVE	1	OPERATOR PREFERENCE							
8	NOT USED									
9	PANEL POLE	1	IRON RIDGE SP/03							
10	POST OR RR TIE	4	ADDITIONAL FOR PROTECTION OF SOLAR PANEL							
11	COMPLETED WELL	1								
12	STORAGE TANK	1	5000 GALLON SKID MOUNTED							
13	2" G.I. PIPE W/ FITTINGS									
14	NOT USED									
15	3" G.I. PIPE W/ FITTINGS									
	OPTIONAL									
	24V STORAGE BATTERIES		FOR LATE SEASONS, EVENING AND MORNINGS							

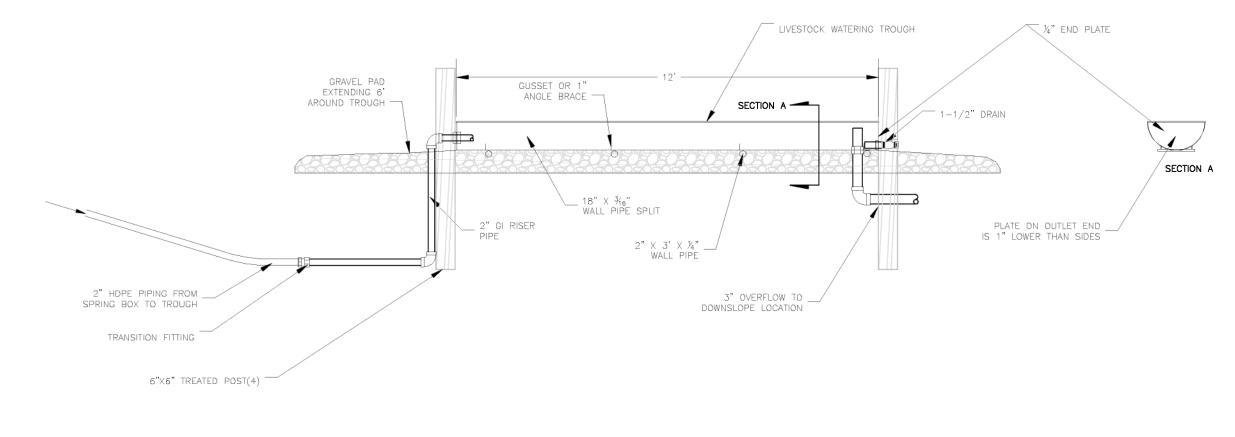




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R PIPE TROUGH

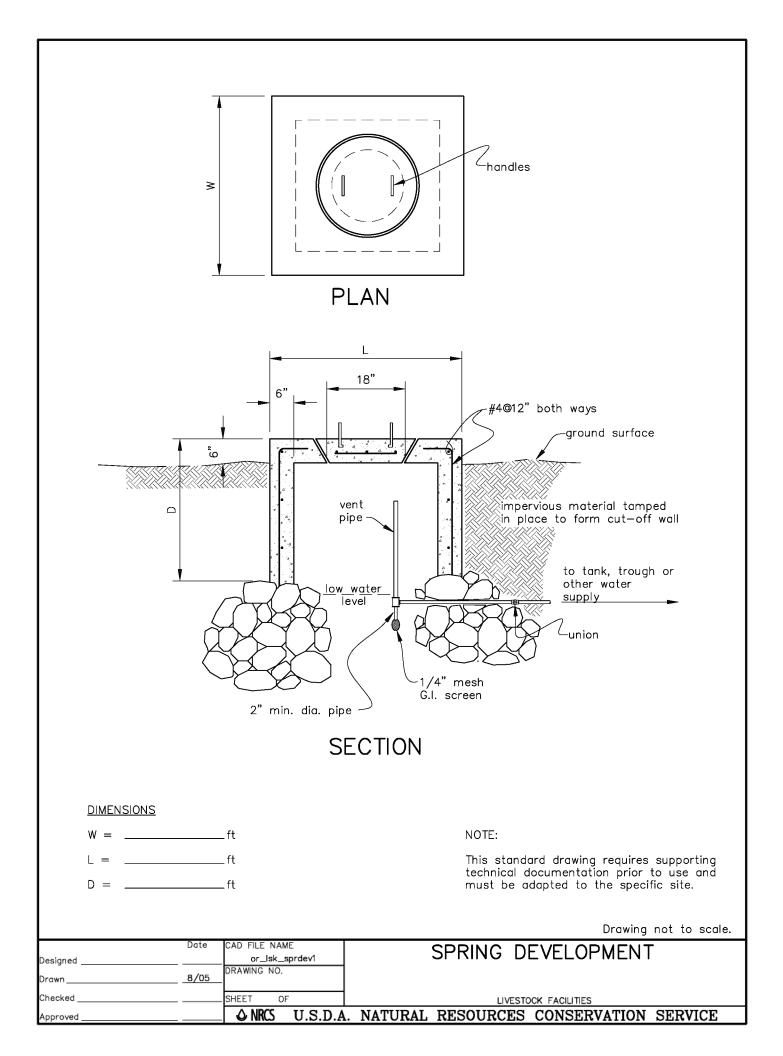


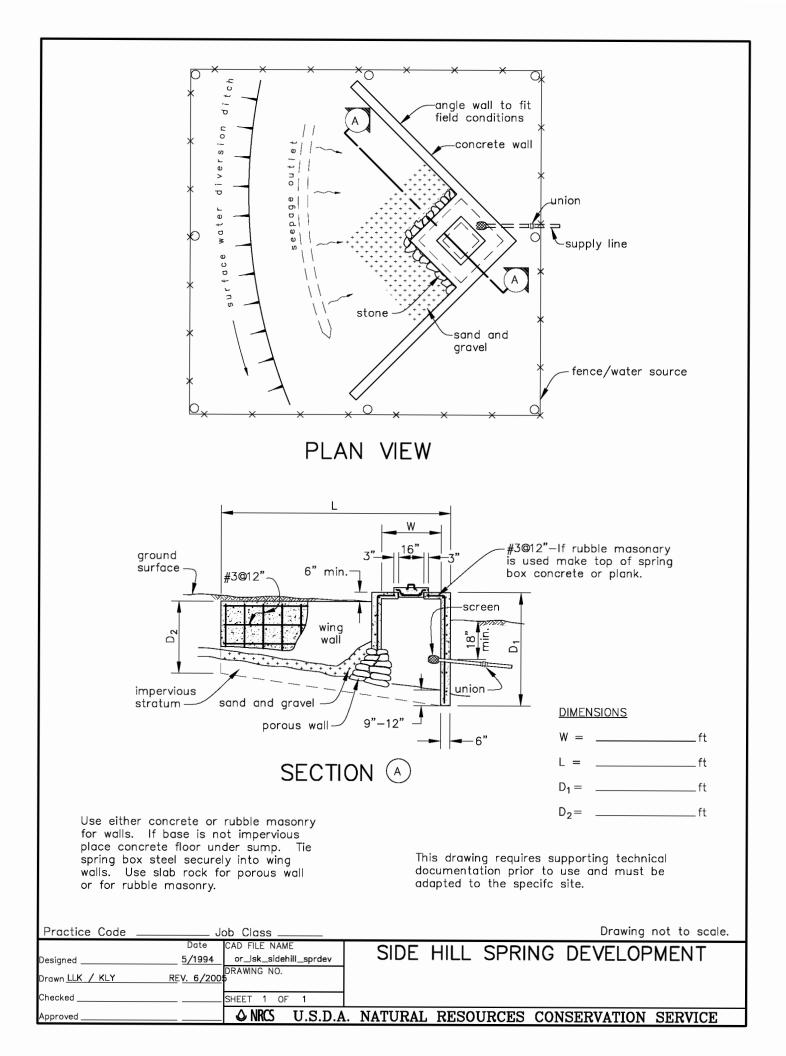
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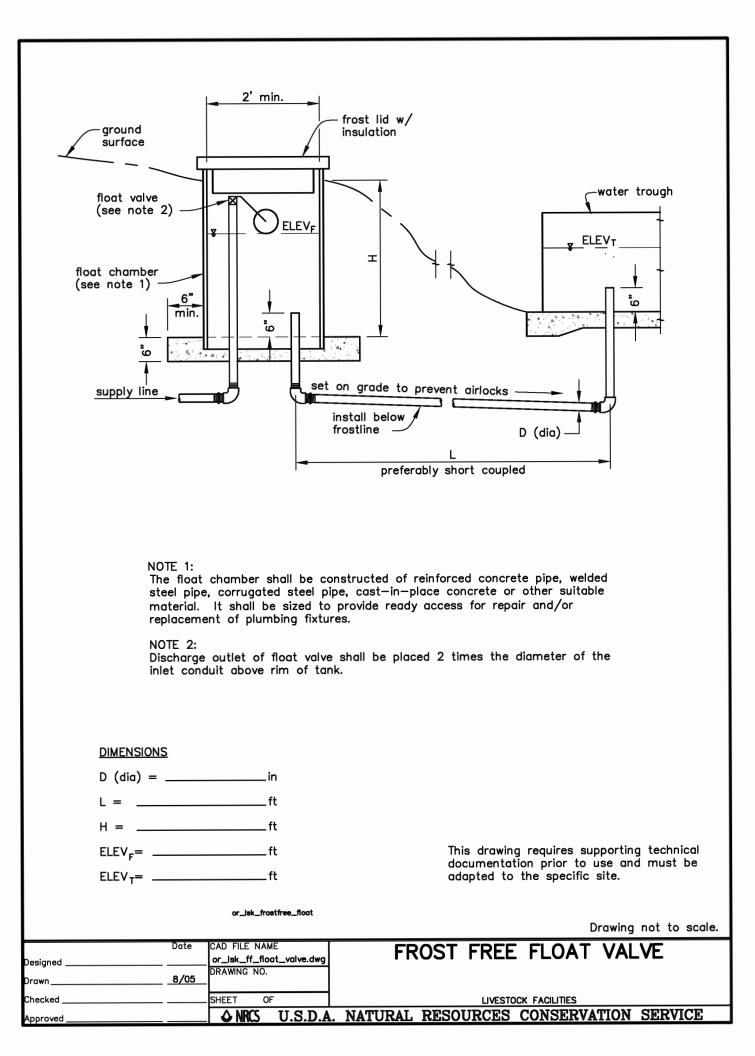
### **APPENDIX B**

### **NRCS STANDARD DRAWINGS**

SPRING DEVELOPMENT SIDEHILL SPRING DEVELOPMENT FROST FREE FLOAT VALVE TROUGH **TROUGH PIPING TROUGH OVERFLOW (Metal Tank) TROUGH OVERFLOW (With Drainfill)** TROUGH OVERFLOW (Conc. Irrigation Pipe) LIVESTOCK WATERING RAMP WATER TROUGH (Equipment Tire) **INLET/OVERFLOW DEVICE** SOLAR POWERED ABOVE GROUND PUMP SOLAR POWERED SUBMERSIBLE PUMP SOLAR POWERED SUBMERSIBLE PUMP FOR WELL ESCAPE RAMPS TANK LAYOUT FOR SLOPES LESS THAN 20% **INLET/OVERFLOW DEVICE** 

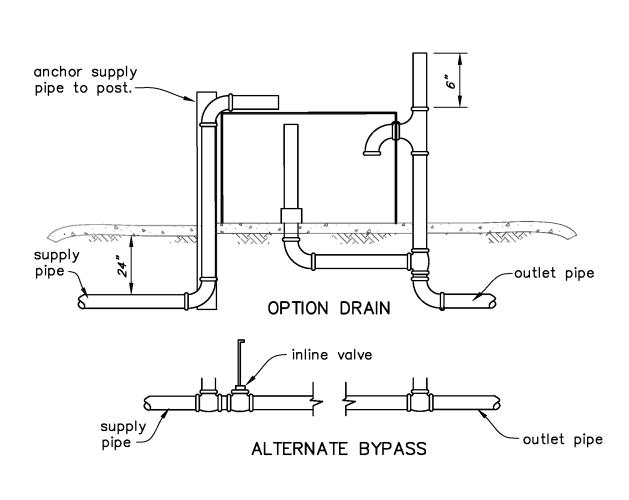






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	PVC galv. grou	raod tie 70°. 2"sp 3 x 3 x long w/	or gallon (min.) typical steel trough bit of min. dia. post are valve are valve pumbing) are valve pumbing) " supply line, PVC below ground, galv. staeel above ground
			Note: The rock or gravel pad will extend out a min. of 6 ft. in all directions. Route over— flow to natural drainage or non—erosive area.
			This drawing requires supporting technical documentation prior to use and must be adapted to the specific site.
			Drawing not to scale.
Designed	Date	CAD FILE NAME or_lsk_tub_trough.dwg	TROUGH
Drawn	8/05	DRAWING NO. -	
Checked		SHEET OF	LIVESTOCK FACILITIES
Approved		<u>ONRCS U.S.D.</u>	A. NATURAL RESOURCES CONSERVATION SERVICE



# TROUGH PIPING DETAIL

### VALVE OPTIONS

- 1. hydrant with float valve.
- 2. frost free hydrant.
- in-line gate valve w/well & cap.
   unrestricted flow as shown.

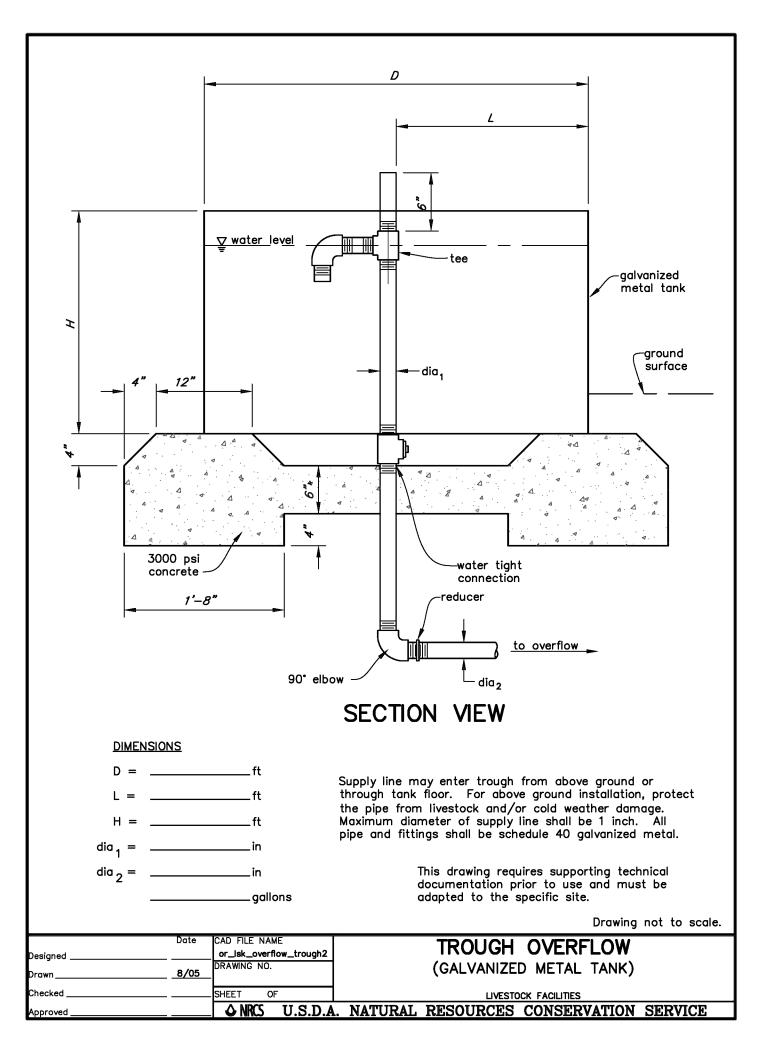
### SPECIAL PROVISIONS

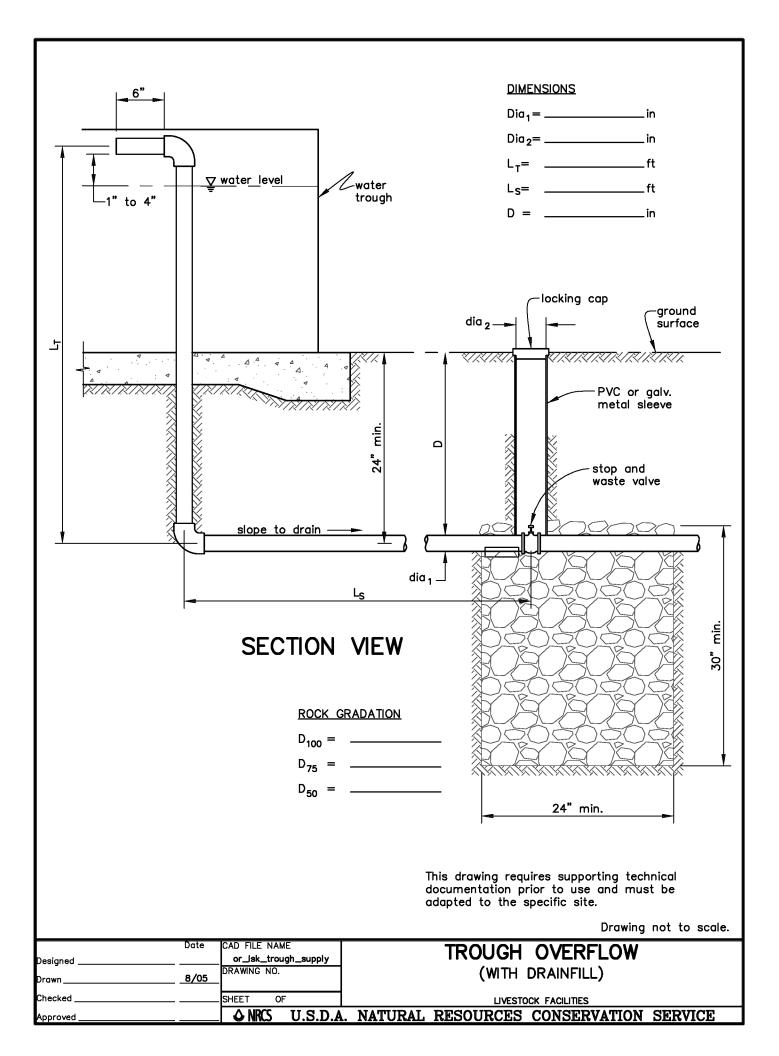
1. All pipe installed above ground shall be galvanized steel. All pipe installed below ground shall be schedule 40 PVC.

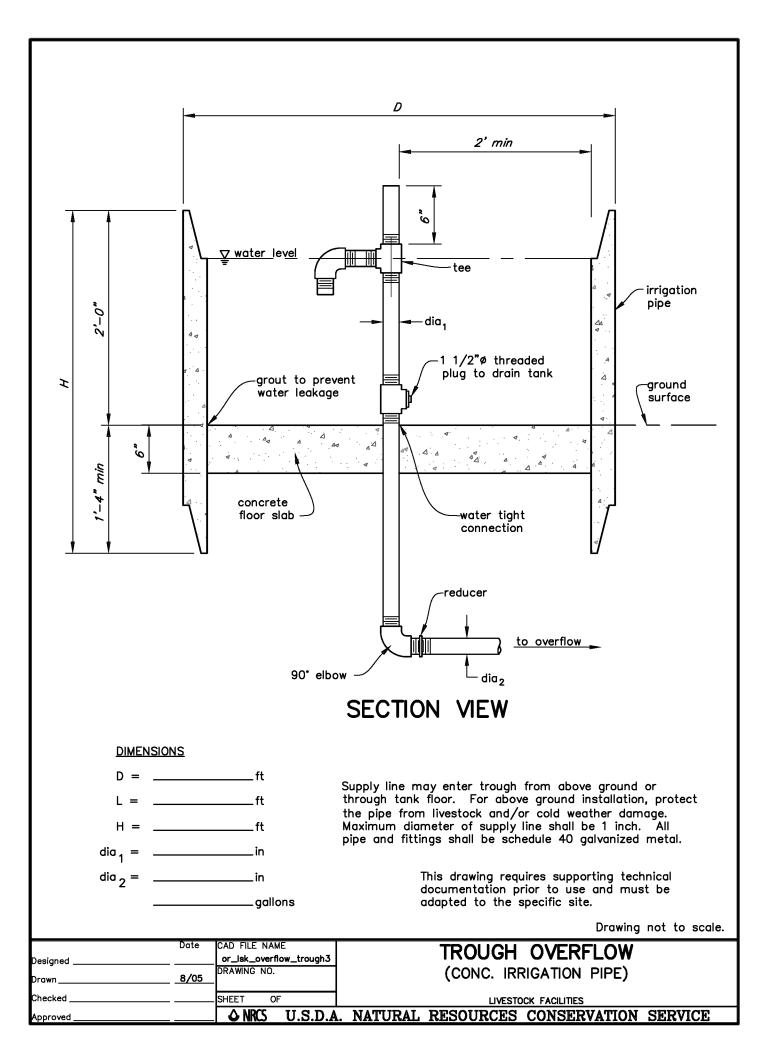
2. Compacted rock pad for trough to be 4"-minus pit-run gravel. Grade to drain away from trough.

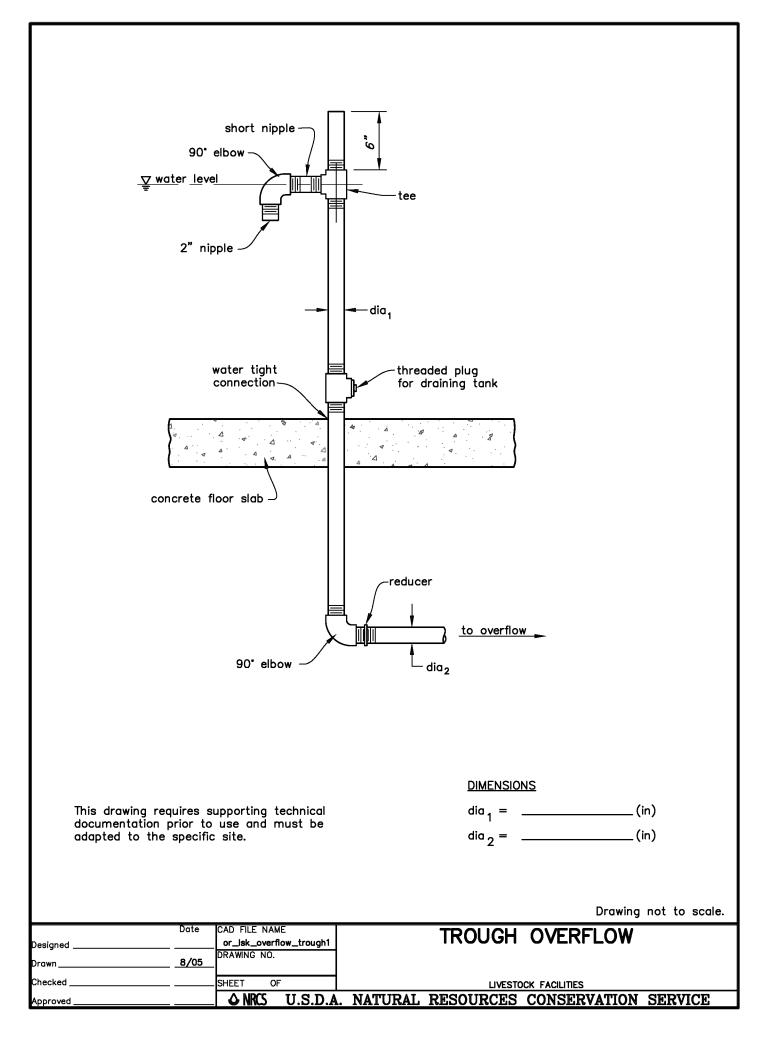
This drawing requires supporting technical documentation prior to use and must be adapted to the specific site.

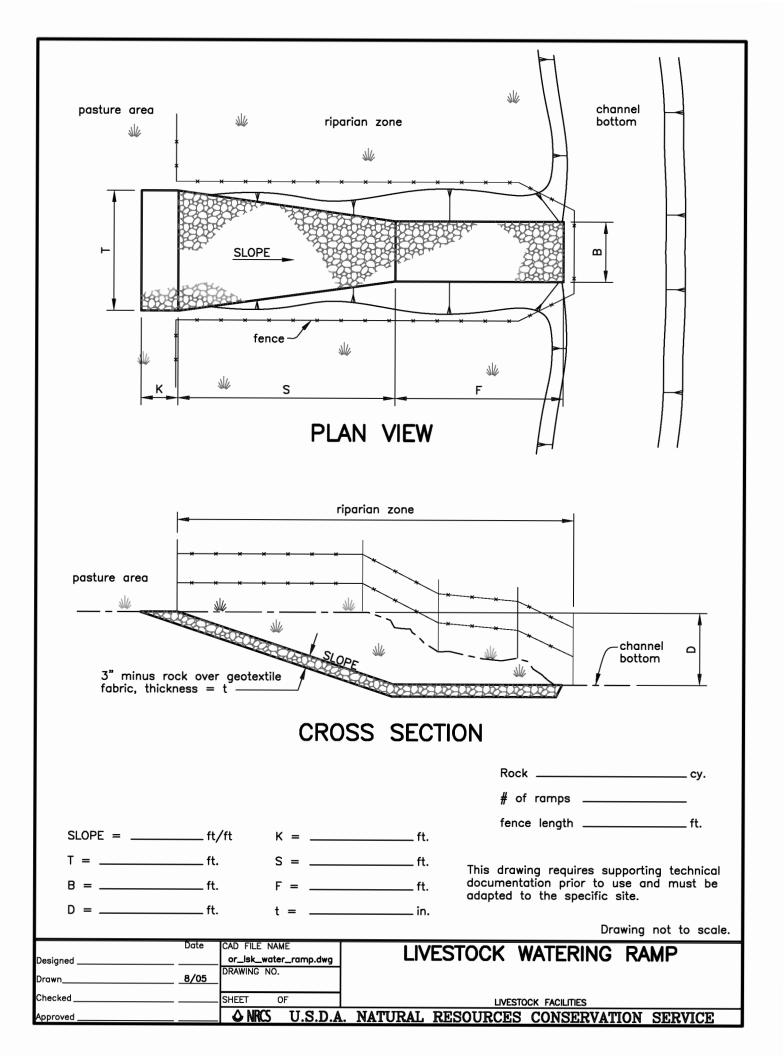
Practice Code	_ Job (	Class				Drawing	not to scale.
	Date	CAD FILE NAI			TROUG	H PIPING	
Designed		or_lsk_trou					
Drawn	8/05	DRAWING NO.					
Checked		SHEET O	F		LIVESTO	OCK FACILITIES	
Approved		_ <b>♦</b> NRCS	U.S.D.A.	NATURAL	RESOURCES	CONSERVATION	SERVICE

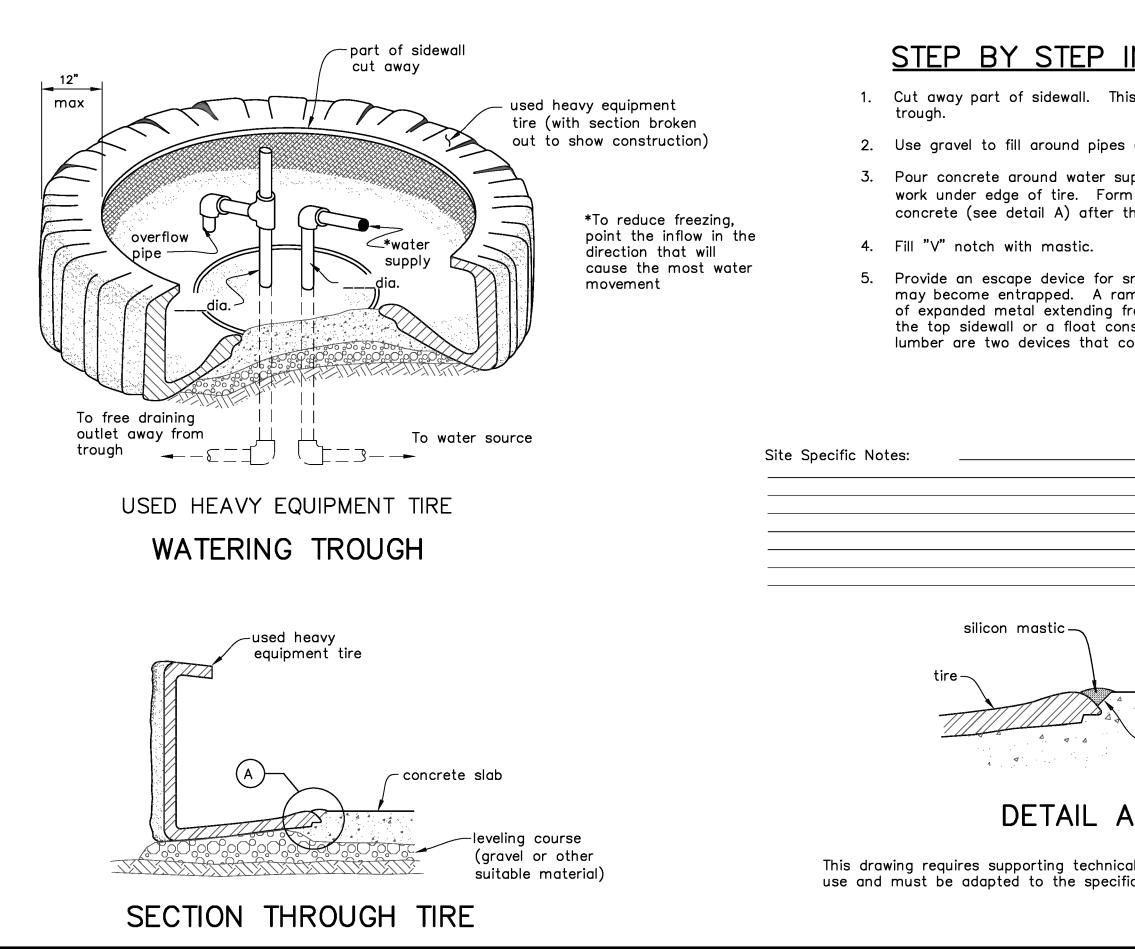




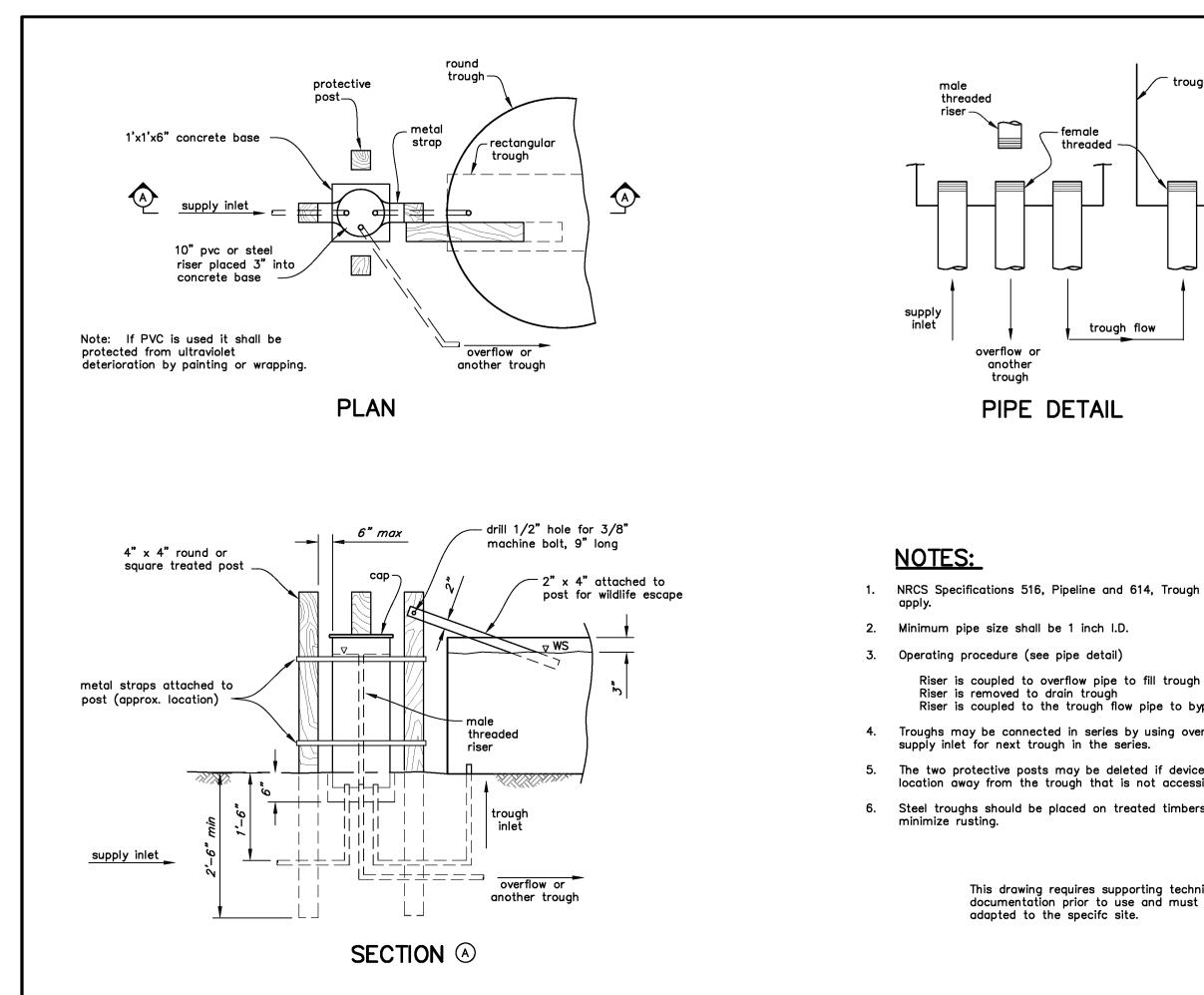






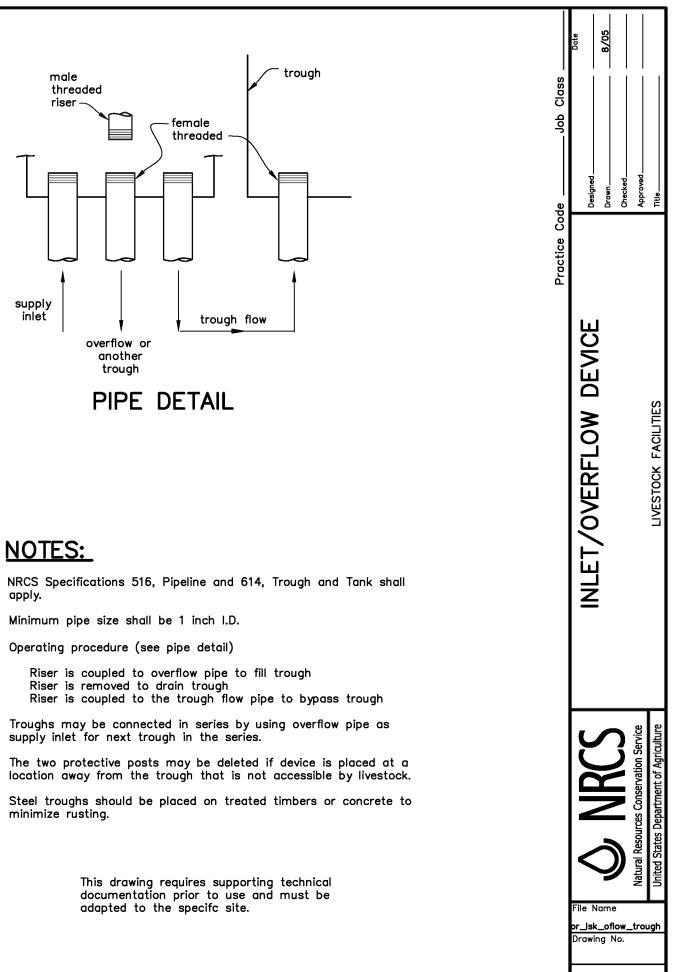


	Date	8/05		
INSTRUCTIONS				
is will be the top of the				
and to level tire.	Designed	Drawn	Approved	Title
upply and overflow pipes and n a "V" notch in the the top surface is smooth.				
small birds and animals that imp constructed of a piece from the water surface to nsisting of a piece of could be used.	WATERING TROUGH	(EQUIPMENT TIRE)		LIVESTOCK FACILITIES
	_	_	/ice	ture
"V" notch 3/4" deep			Natural Resources Conservation Service	<b>Jnited States Department of Agriculture</b>
4	<	)	Natural Resource	United States De
al documentation prior to fic site.		Name k_tire_t ing No.		dwg
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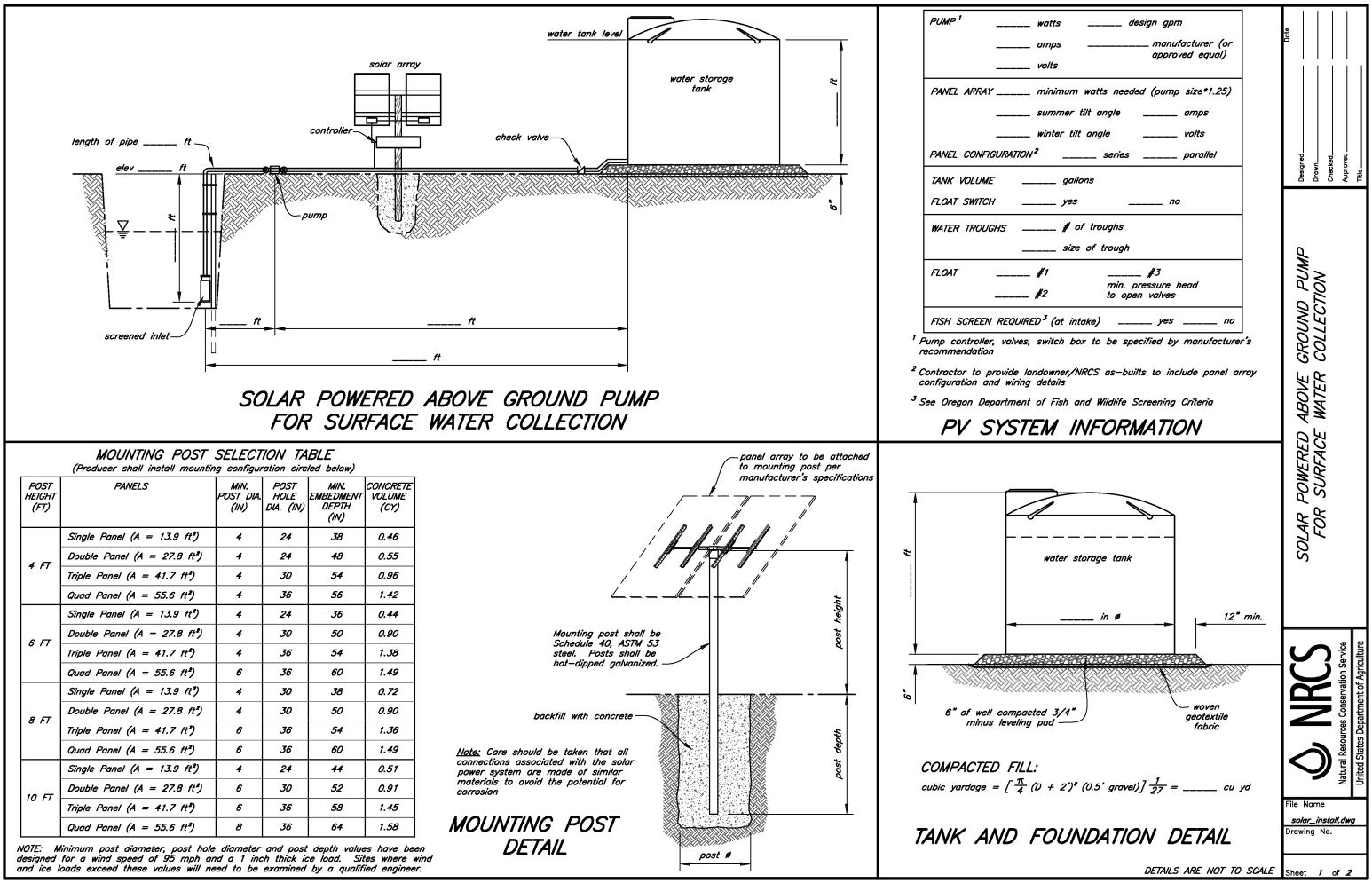


female

threaded

Drawing not to scale.

Sheet



		WATER SOURC	E INFO	DRMATION							
	SUBSURFACE					SURFACE					
WELL		SPRING			STREAM	CANAL	POND				
Depth (ft)		Yield (gpm)		Flow Rate (gpm)							
Max. Yield (gpm)		COLLECTION BOX DATA		Seasonal or Perennial							
Casing I.D. (in)		Depth (ft)		Min. Water Elev. (ft)							
Well Test (Y or N)		Volume (gal)									
Date of Test		Covered (Y or N)									

## WATER USE INFORMATION

	-		WATER	USE IN	IFORMATION	
Type of Use			quirement (	1	Comments (# or type of animals, type of irrigation, etc.)	EM
/ Sugata ali	Summer	Fall	Winter	Spring		LIS
Livestock						≷رئ
Wildlife						
Irrigation						INA I
Domestic/Potable						114 117
Other						Ĩ Ĭ Ĭ
Total Requirement						L ,
DV DEC Month Hours			4		D + 2' (min) mound 4" to 6" with topsoil above natural ground final native backfill recommend locator ribbon 6" above electrical conduit electrical conduit pipe size = in # bedding	Decision of Aprice States Department of Agriculture
				7	YPICAL TRENCH DETAIL	<i>solar_install.dwg</i> Drawing No.

Very Good	Water contains no abrasive particles, and/or TDS < 50 ppm
Good	Water may contain small amounts of silt, and/or TDS < 100 ppm
Fair	Water may contain small amounts of silt, sand, or rust, and/or TDS < 200 ppm
<i>Poor</i>	Water may contain moderate amounts of silt, sand, or rust, and/or $TDS = 200-800$
Very Poor	Water regularly contains silt, sand, or rust, and/or TDS > 800
	COMMENTS:
WATER STORA	GE DATA
	GE DATA Iaximum Daily Requirement (gal/day) x days = gallons.
Volume Required =	laximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total
Volume Required = Volume Available (gal	laximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total
Volume Required =	faximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total ons):
Volume Required = Volume Available (gal	Maximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total ons):

Static Water Depth:	ft. (Distance from ground to water surface when not pumping).
Drawdown Level:	ft., atGPM. (Depth water drops when pumping).
Discharge Head:	ft. (Dist. from ground surface to highest water surface in discharge line)
	(Use either Discharge Level or Pressure Head, but not both)
Pressure Head:	ft. (Tank pressure in psi. x 2.31)
Losses:	ft. (Minor and friction losses in discharge line from pump to tank)
Total Dynamic Head:	ft. (Sum of values above).

### WATER SOLAR POWER DATA

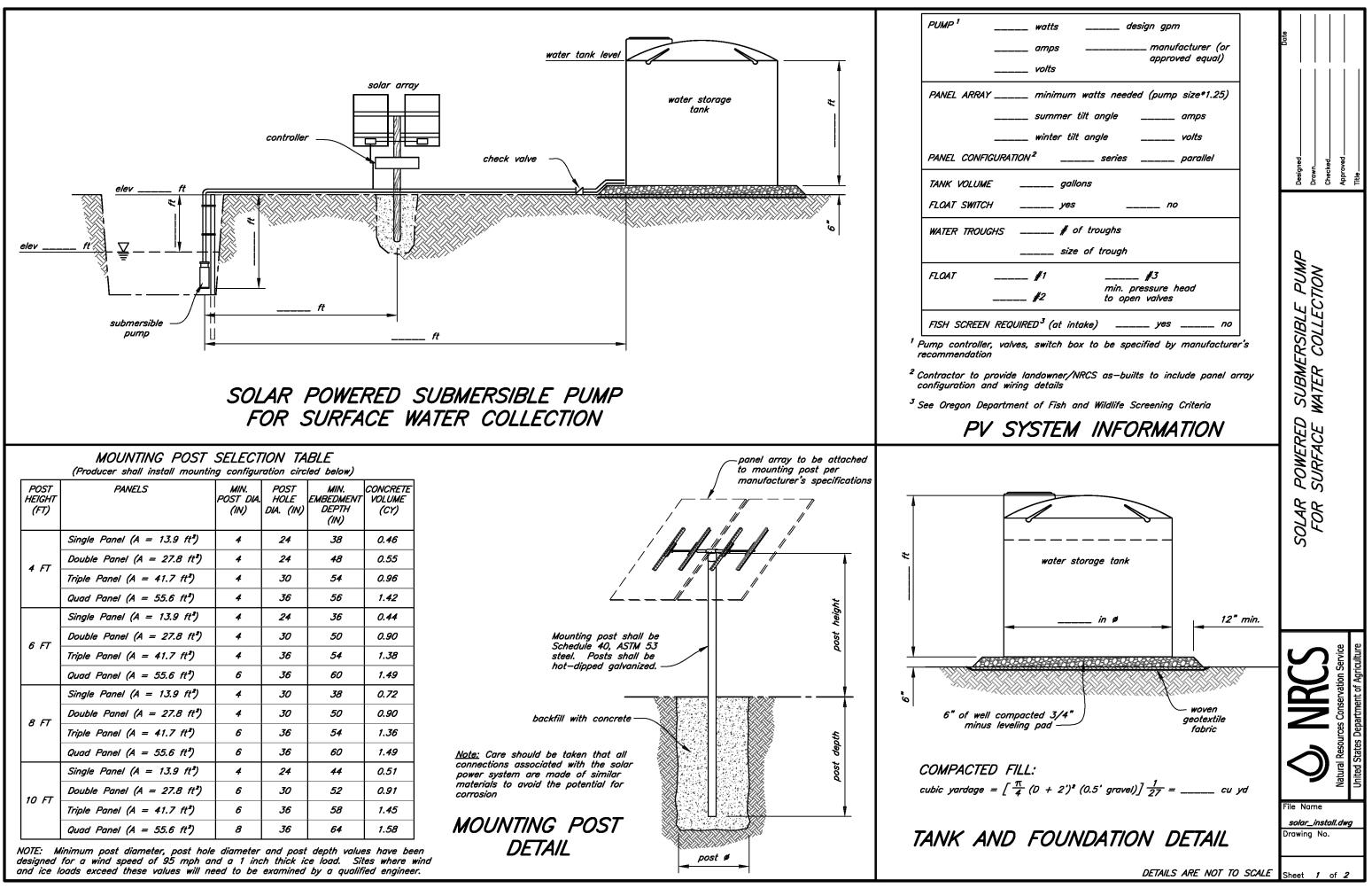
WATER QUALITY AT SOURCE

Solar Station

### SOLAR ISOLATION VALUES

	Average kwh/m²/day	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	ОСТ	NOV	DEC	Month
	or full sun hours													Hours
Latitude														-
Design Solar Radiation	Hours =	_ hours												
Design Flow Rate (gpn	n) =	_ gals (V	lolume Re	equired) /	/	. Solar R	adition He	ours (1	hour/60	minutes)				
•			'olume Re	equired) /	/	. Solar R	adition He	ours ( 1	hour/60	minutes)				

Sheet **2** of **2** 



	WATER S	OURCE INF	ORMATION					
	SUBSURFACE	SUR	SURFACE					
WELL	SPA	RING		STREAM	CANAL	POND		
Depth (ft)	Yield (gpm)		Flow Rate (gpm)					
Max. Yield (gpm)	COLLECTION BOX	K DATA	Seasonal or Perennial					
Casing I.D. (in)	Depth (ft)		Min. Water Elev. (ft)					
Well Test (Y or N)	Volume (gal)							
Date of Test	Covered (Y or I	V						

## WATER USE INFORMATION

			WATER	USE IN	IFORMATION	
Type of Use			quirement (	1	Comments (# or type of animals, type of irrigation, etc.)	EM
Livestock	Summer	Fall	Winter	Spring		LISY
Wildlife						ي ي
Irrigation						
Domestic/Potable						ERI
Other						
Total Requirement						×₹
DV DEC Month Hours			4	d   o <sup>*</sup>	D + 2' (min) mound 4" to 6" with topsoil above natural ground final native backfill recommend locator ribbon 6" above electrical conduit electrical conduit pipe size = in # bedding	Inited States Department of Agriculture

Very Good	Water contains no abrasive particles, and/or TDS < 50 ppm
Good	Water may contain small amounts of silt, and/or TDS < 100 ppm
Fair	Water may contain small amounts of silt, sand, or rust, and/or TDS < 200 ppm
Poor	Water may contain moderate amounts of silt, sand, or rust, and/or TDS = 200–800 pp
Very Poor	Water regularly contains silt, sand, or rust, and/or TDS > 800
WATER STORA	COMMENTS:
Volume Required =	GE DATA Maximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total
	GE DATA Maximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total

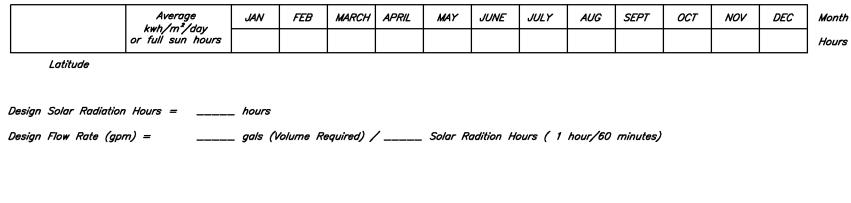
Static Water Depth:	ft. (Distance from ground to water surface when not pumping).
Drawdown Level:	ft., atGPM. (Depth water drops when pumping).
Discharge Head:	ft. (Dist. from ground surface to highest water surface in discharge line)
	(Use either Discharge Level or Pressure Head, but not both)
Pressure Head:	ft. (Tank pressure in psi. x 2.31)
Losses:	ft. (Minor and friction losses in discharge line from pump to tank)
Total Dynamic Head:	ft. (Sum of values above).

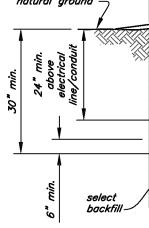
### WATER SOLAR POWER DATA

WATER QUALITY AT SOURCE

Solar Station

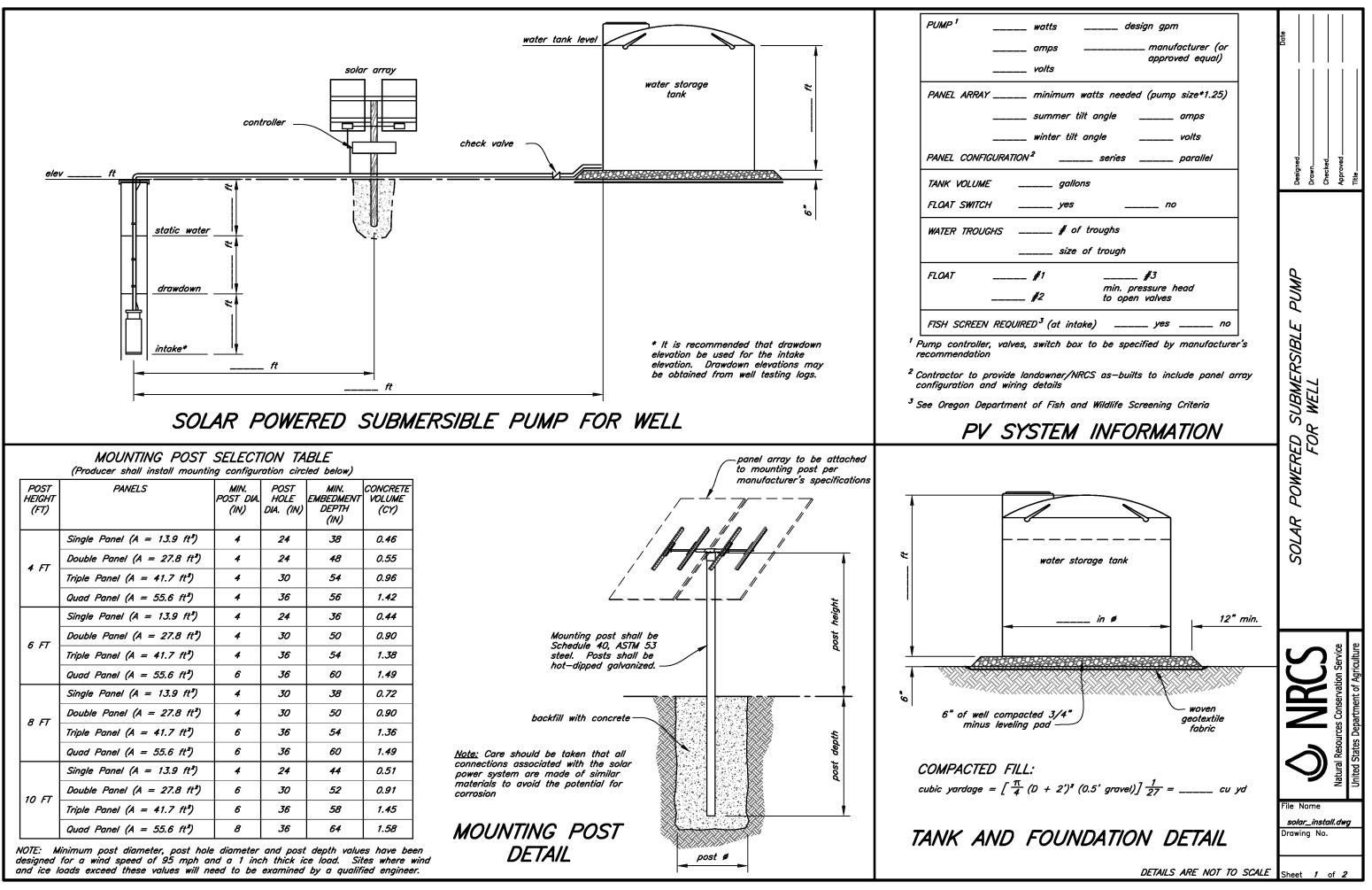
### SOLAR ISOLATION VALUES





Sheet **2** of **2** 

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WATER SOURCE INFORMATION								
	SUBSURFACE	SUR	SURFACE					
WELL SPRING			STREAM	CANAL	POND			
Depth (ft)	Yield (gpm)		Flow Rate (gpm)					
Max. Yield (gpm)	COLLECTION BOX	K DATA	Seasonal or Perennial					
Casing I.D. (in)	Depth (ft)		Min. Water Elev. (ft)					
Well Test (Y or N)	Volume (gal)							
Date of Test	Covered (Y or I	V						

## WATER USE INFORMATION

WATER USE INFORMATION						
Type of Use			quirement (	1	Comments (# or type of animals, type of irrigation, etc.)	EM
Livestock	Summer	Fall	Winter	Spring		LISY
Wildlife						ي کې
Irrigation						
Domestic/Potable						ERI
Other						
Total Requirement						×₹
DV DEC Month Hours			4	d   o <sup>*</sup>	D + 2' (min) mound 4" to 6" with topsoil above natural ground final native backfill recommend locator ribbon 6" above electrical conduit electrical conduit pipe size = in # bedding	Inited States Department of Agriculture

Very Good	Water contains no abrasive particles, and/or TDS < 50 ppm
Good	Water may contain small amounts of silt, and/or TDS < 100 ppm
Fair	Water may contain small amounts of silt, sand, or rust, and/or TDS < 200 ppm
Poor	Water may contain moderate amounts of silt, sand, or rust, and/or TDS = 200–800 pp
Very Poor	Water regularly contains silt, sand, or rust, and/or TDS > 800
WATER STORA	COMMENTS:
Volume Required =	GE DATA Maximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total
	GE DATA Maximum Daily Requirement (gal/day) x days = gallons. Open Tank Pres. Tank In Line Other Total

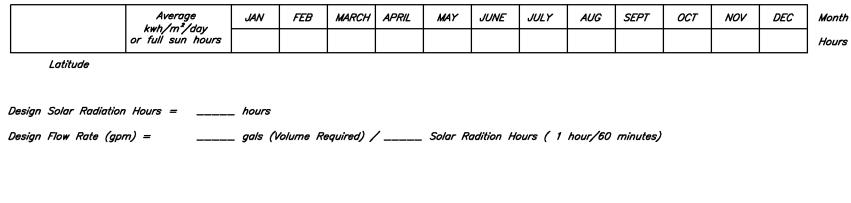
Static Water Depth:	ft. (Distance from ground to water surface when not pumping).
Drawdown Level:	ft., atGPM. (Depth water drops when pumping).
Discharge Head:	ft. (Dist. from ground surface to highest water surface in discharge line)
	(Use either Discharge Level or Pressure Head, but not both)
Pressure Head:	ft. (Tank pressure in psi. x 2.31)
Losses:	ft. (Minor and friction losses in discharge line from pump to tank)
Total Dynamic Head:	ft. (Sum of values above).

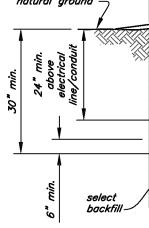
### WATER SOLAR POWER DATA

WATER QUALITY AT SOURCE

Solar Station

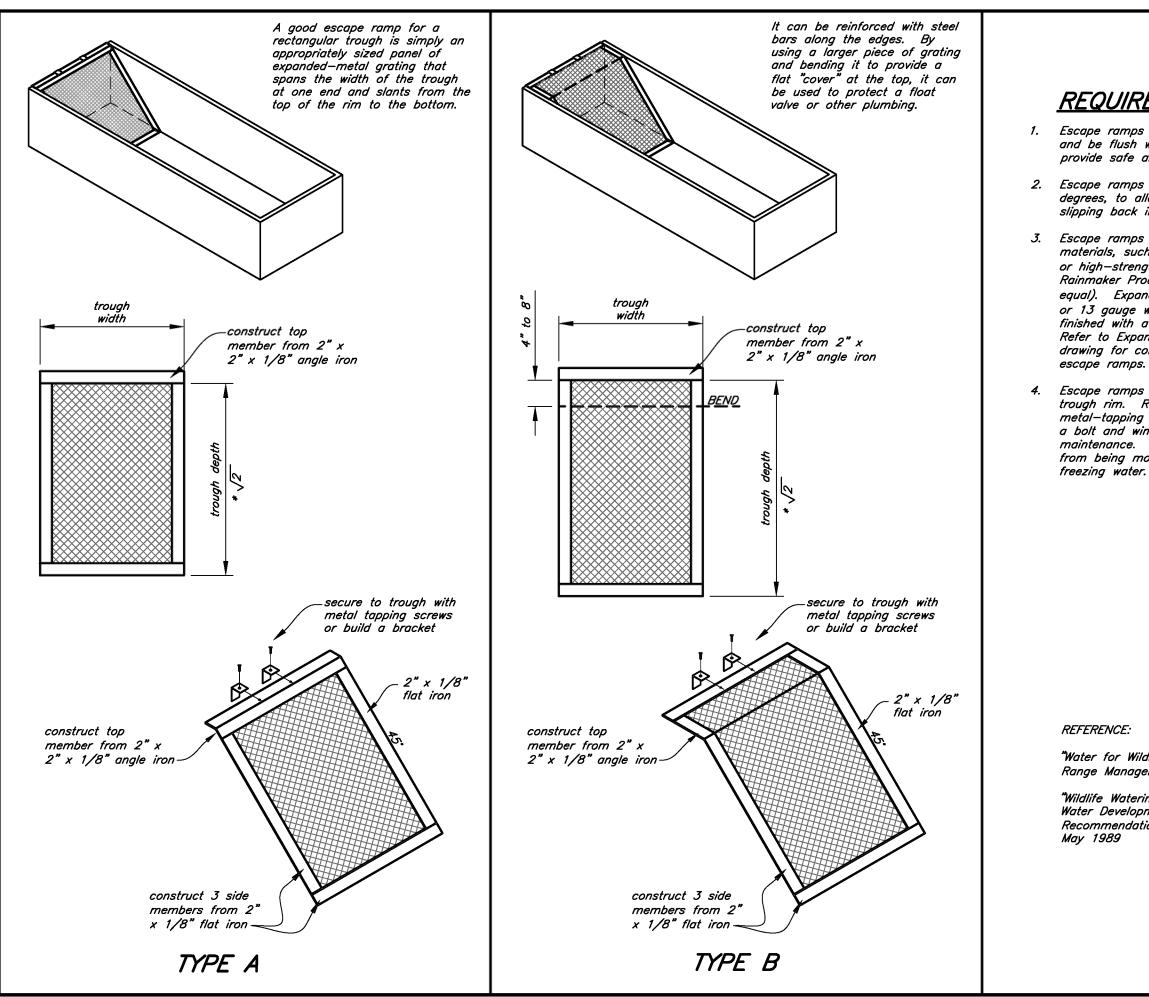
### SOLAR ISOLATION VALUES





Sheet **2** of **2** 

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# **REQUIREMENTS**

1. Escape ramps shall extend to bottom of trough and be flush with inside wall of the trough to provide safe and easy egress at low water levels.

2. Escape ramps shall be sloped no steeper than 45 degrees, to allow animals to climb out without slipping back into the water.

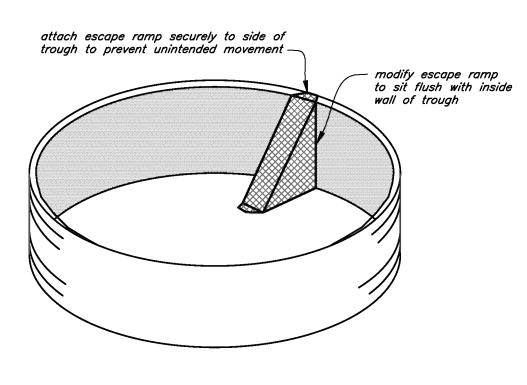
3. Escape ramps shall be built of tractive, long lasting materials, such as painted or coated metal grating, or high-strength plastic composites (e.g., Rainmaker Products polyethylene ramps or approved equal). Expanded metal escape ramps shall be 11 or 13 gauge with 1/2 inch mesh and shall be finished with a rust-inhibiting paint or coating. Refer to Expanded Metal Escape Ramp Fabrication drawing for construction details of expanded metal

4. Escape ramps shall be securely attached to the trough rim. Recommend attaching ramp with metal-tapping screw and washer, or a bracket with a bolt and wing nut for easy removal during trough maintenance. Secured attachment shall keep ramp from being moved loose by livestock, animals or

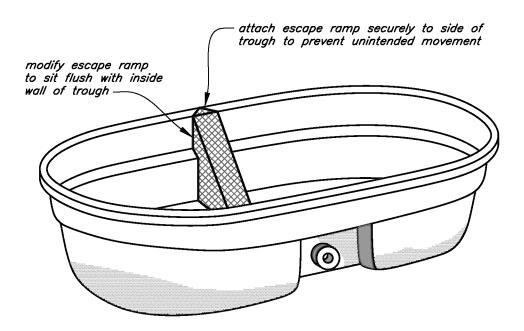
"Water for Wildlife: a Handbook for Ranchers and Range Managers," Bat Conservation International, 2007

"Wildlife Watering and Escape Ramps on Livestock Water Developments: Suggestions and Recommendations," Idaho BLM Technical Bulletin 89-4,

TROUGH RAMPS RECTANGULAR ESCAPE S NRCS Ial Resources Conservation Service ile Name ildlife\_escape\_ramps.dw Drawing No. Drawing not to scale. Sheet 1 of 3



# TYPICAL METAL CIRCULAR TROUGH



TYPICAL POLYETHYLENE/FLEXIBLE RUBBER TROUGH

# geotextile

# TYPICAL TIRE TROUGH

# REQUIREMENTS

- 1. Escape ramps shall extend to bottom of trough and be flush with inside wall of the trough to provide safe and easy egress at low water levels.
- 2. Escape ramps shall be sloped no steeper than 45 degrees, to allow animals to climb out without slipping back into the water.
- 3. Escape ramps shall be built of tractive, long lasting materials, such as painted or coated metal grating, or high-strength plastic composites (e.g., Rainmaker Products polyethylene ramps or approved equal). Expanded metal escape ramps shall be 11 or 13 gauge with 1/2 inch mesh and shall be finished with a rust-inhibiting paint or coating. Refer to Expanded Metal Escape Ramp Fabrication drawing for construction details of expanded metal escape ramps.
- 4. Escape ramps shall be securely attached to the trough rim. Recommend attaching ramp with metal-tapping screw and washer, or a bracket with a bolt and wing nut for easy removal during trough maintenance. Secured attachment shall keep ramp from being moved loose by livestock, animals or freezing water.

### **REFERENCE:**

"Water for Wildlife: a Handbook for Ranchers and Range Managers," Bat Conservation International, 2007

"Wildlife Watering and Escape Ramps on Livestock Water Developments: Suggestions and Recommendations," Idaho BLM Technical Bulletin 89-4, May 1989

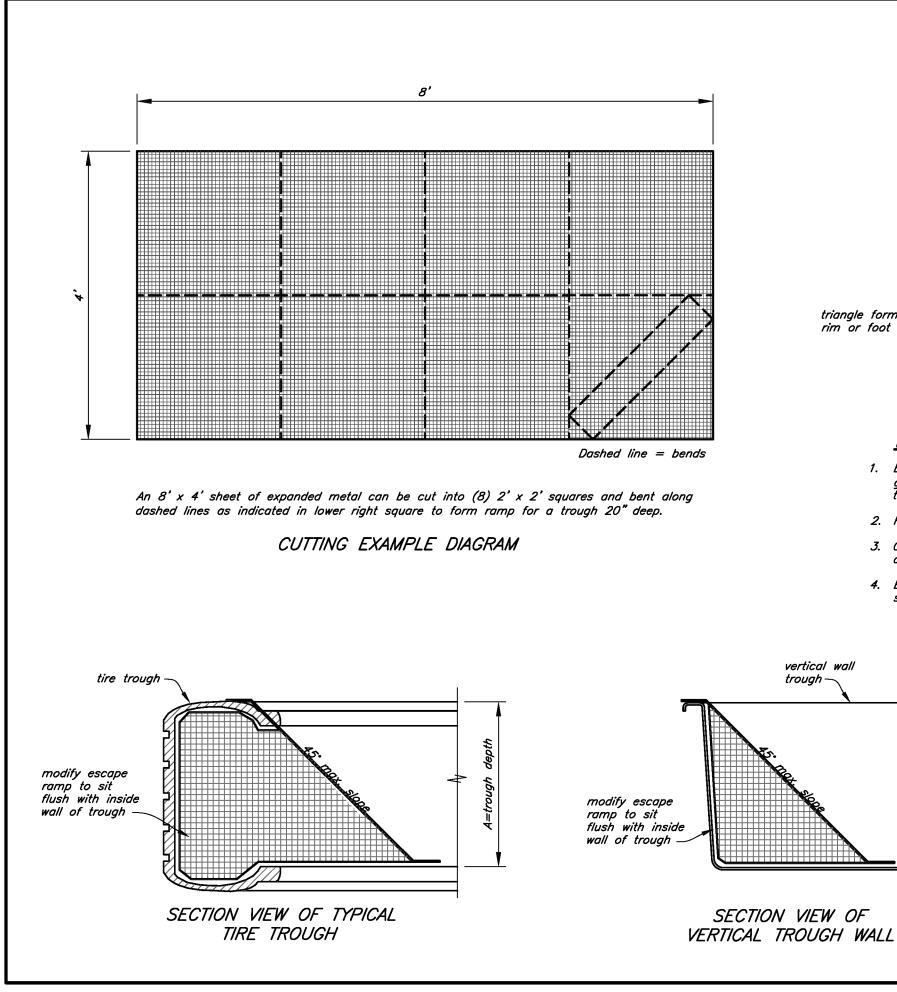
attach escape ramp securely to side of trough to prevent unintended movement

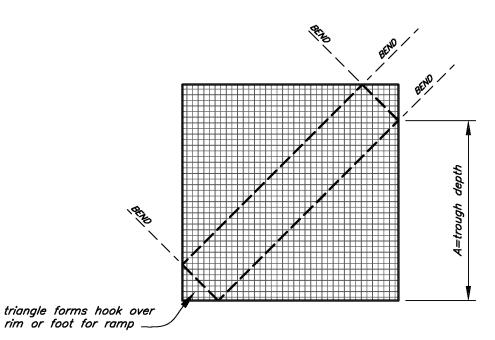


modify escape ramp to sit flush with inside wall of trough

fill bottom of tire trough with concrete liner or other appropriate impermeable material

rely to side of ded movement	Dete 12/2011 12/2011 12/2011
cape ramp h with inside rugh	Designed <u>TDM</u> Drawn <u>KLY</u> Checked <u>JM</u> ApprovedTttle
igh with he material	CIRCULAR TROUGHS ESCAPE RAMPS
imb out without coated metal ramps or 2 inch mesh letal Escape 5. g ramp with removal during e by livestock,	PRACE Conservation Service repartment of Agriculture
	File Name wildlife_escape_ramps.dwg Drawing No.
Drawing not to scale.	Sheet 2 of 3

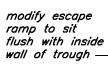




CUTTING AND BENDING DIAGRAM

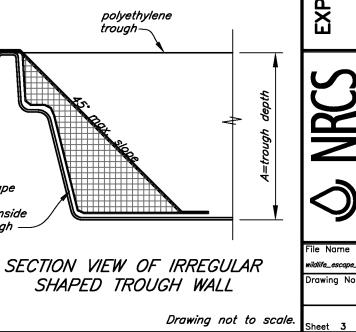
# EXPANDED METAL RAMP REQUIREMENTS

- grating. Use cutting diagram, as shown on this sheet, with the length (A) matching the depth of the trough.
- 2. Ramp to be modified as needed to set flu
- 3. Once all cutting, bending and modifications a rust—inhibiting paint or coating.
- 4. Bend the top corner of the ramp over the rim of the trough and attach with screws or bolts.

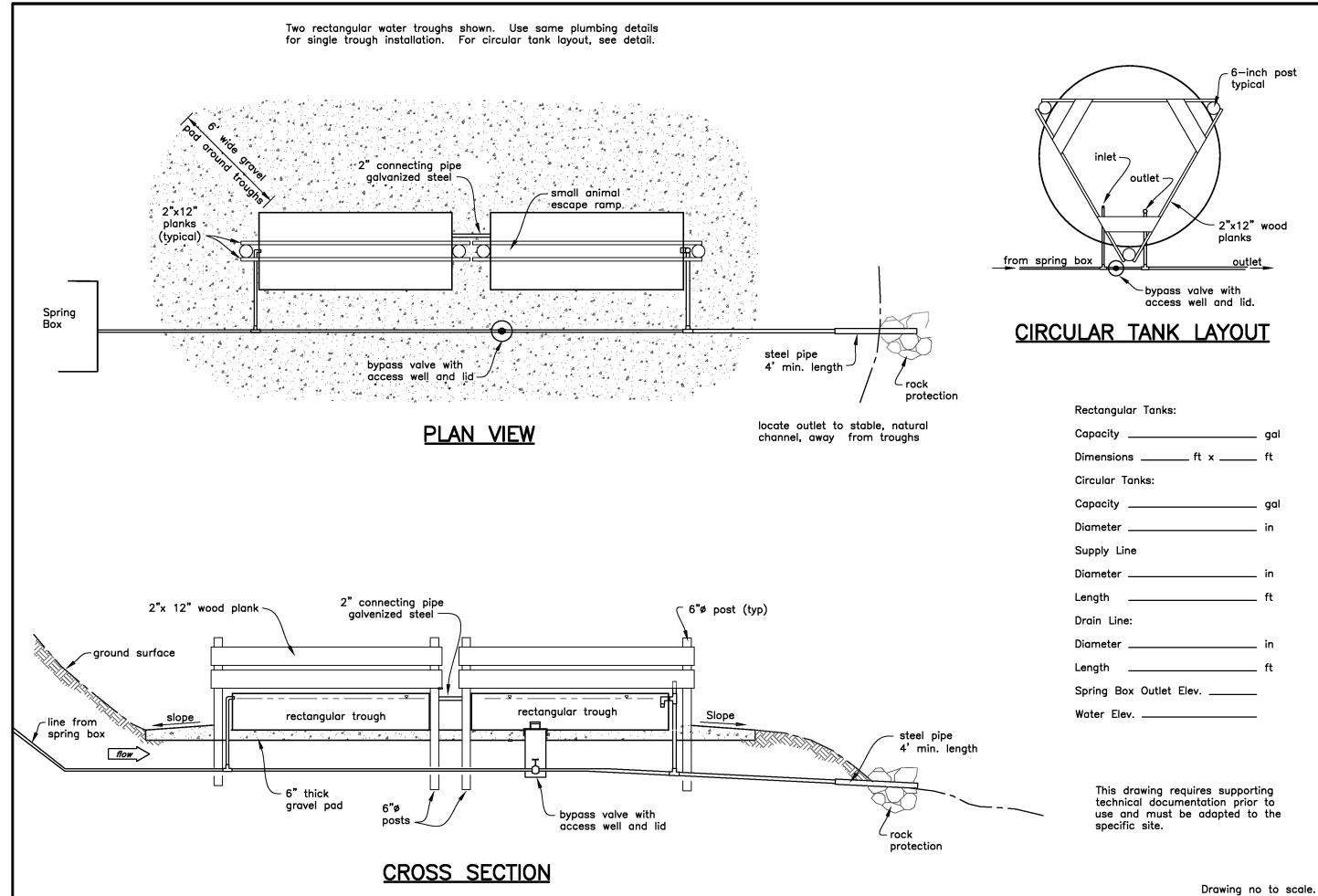


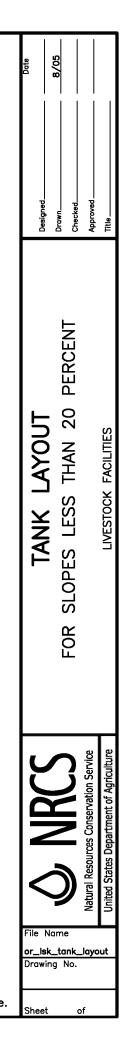
1. Expanded metal ramps shall be fabricated of 11 or 13 gauge steel with 1/2 inch

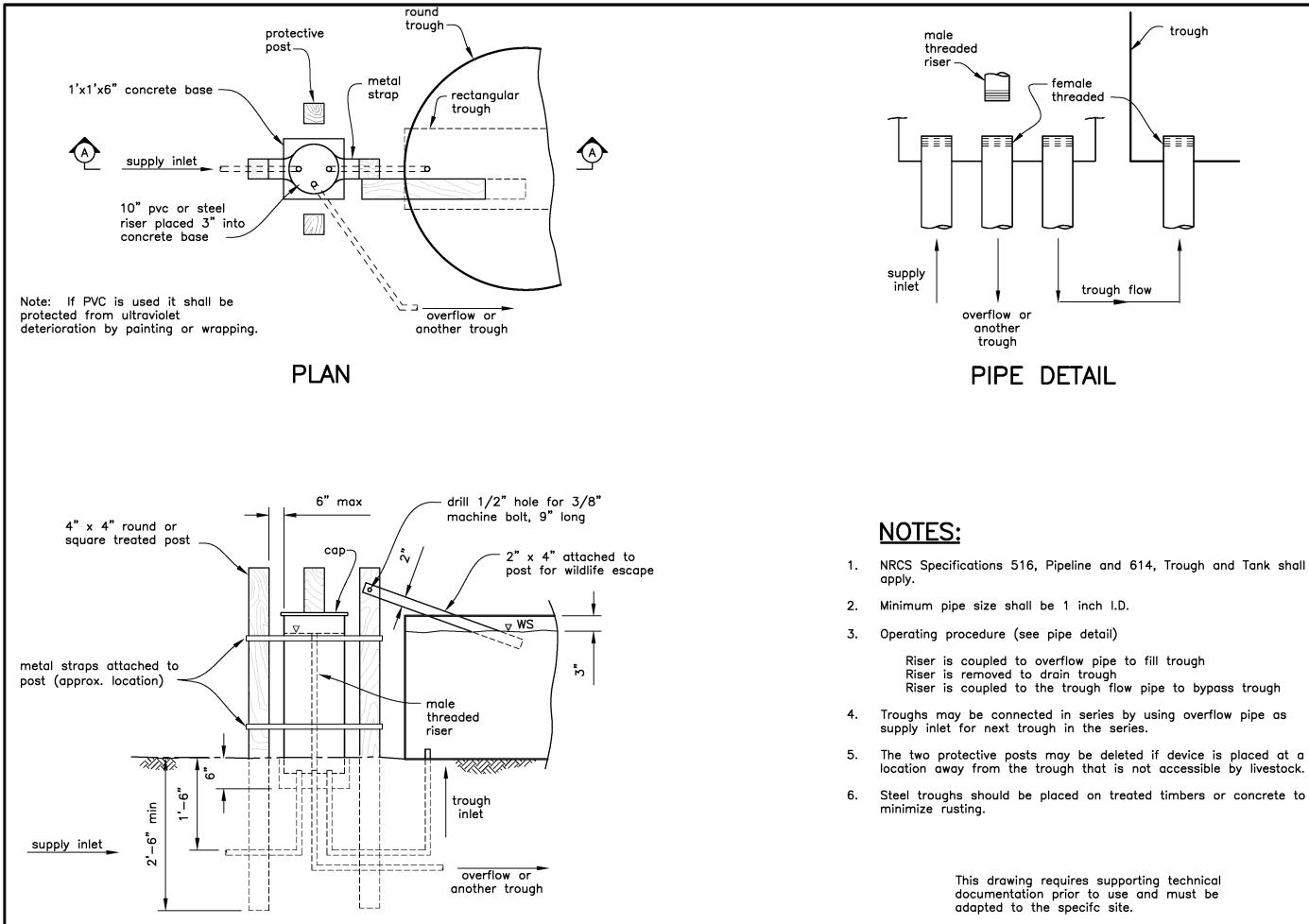
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s	or	rai	np	are	e ca	omplete	fin	ish	ram	p	with



	Date 12/2011 12/2011 12/2011
	Designed <u>TDM</u> Drawn <u>KLY</u> Checked <u>JM</u> Approved
	EXPANDED METAL ESCAPE RAMP FABRICATION ESCAPE RAMPS
-	Natural Resources Conservation Service United States Department of Agriculture
	File Name wildlife_escape_ramps.dwg Drawing No.
le.	Sheet <b>3</b> of <b>3</b>







Date Designed R. Hugh Barrett 5/1988	Drawn LLK/KLY 10/91-6/05	Checked R.H.B./D.L.S. 6/1988	Approved Roy E. Bright	Title State Conservation Engineer
INLET/OVERFLOW DEVICE		LIVESTOCK WALER LAMK		
			Natural Resources Conservation Service	United States Department of Agriculture
	lam of	low_	_troi	ugh

**APPENDIX C** 

# TEMPORARY STREAM GAUGE STATION INFORMATION

### Beaver Creek

Staff Gage:

### Beaver Creek Ranch Property

Date: 26-Apr-2013

Note: site setup today

Logger: M8306 Baro: M8223 Sampled by: Ryan Key: C0140 Time: 12:00 PM

contact number: 814-442-2479;

Meter/cup size: MM meter, 60 second average function

1.23

site about 200m DS of barn, upstream of apparently stable riffle Jock (owner) gave permission to access site on phone last night (4/25/13)

<u>Stage Info</u> Left Bank stake rod height 3.33 ft on staff plate

	Bi
1.78 ft	C C
2.70 ft	

research

ting inc.

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	11.50	0.00	0.00	1.25	0.00	0.00
	14.00	1.65	0.04	2.25	3.71	0.15
	16.00	1.85	0.87	2.00	3.70	3.22
	18.00	1.65	1.79	2.00	3.30	5.91
	20.00	1.50	1.92	2.00	3.00	5.76
	22.00	1.65	1.77	2.00	3.30	5.84
	24.00	1.85	1.69	2.00	3.70	6.25
	26.00	2.00	1.61	2.00	4.00	6.44
	28.00	1.85	1.45	2.00	3.70	5.37
	30.00	1.60	1.43	2.00	3.20	4.58
	32.00	1.25	1.06	1.95	2.44	2.58
REW	33.90	0.00	0.00	0.95	0.00	0.00

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Discharge:	46.09 cfs	
Area:	34.05 sq ft	
Width:	22.40 ft	
Mean Velocity:	1.35 ft/sec	
Mean Depth:	1.52 ft	
Slope:	0.0021	ft/ft
n:	0.067	

Beaver Creek Beaver Creek Ranch Proper	rty	
Date: 25-Jun-2013		Stage Info
Sampled by: Rya	n Key: C0140	Left Bank stake rod height
Time: 3:15 PM		3.33 ft on staff plate
Staff Gage: 0.60 Meter/cup size: <i>MM meter.</i> 60 secon	-	



Note: Jock (owner) gave permission to access site on phone last night cell phone: 814-442-2479;

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	2.40	0.00	0.00	0.80	0.00	0.00
	4.00	1.00	0.00	1.80	1.80	0.00
	6.00	1.15	0.07	2.00	2.30	0.16
	8.00	1.05	0.04	2.00	2.10	0.08
	10.00	0.85	0.02	2.00	1.70	0.03
	12.00	0.95	0.02	2.00	1.90	0.04
	14.00	1.15	0.08	2.00	2.30	0.18
	16.00	1.30	0.09	2.00	2.60	0.23
	18.00	1.15	0.13	2.00	2.30	0.30
	20.00	1.00	0.07	2.00	2.00	0.14
	22.00	0.55	0.01	2.15	1.18	0.01
REW	24.30	0.00	0.00	1.15	0.00	0.00



1.78 ft 2.70 ft

Discharge:	1.19 cfs	
Area:	20.18 sq ft	
Width: Mean Velocity:	21.90 ft 0.06 ft/sec	
Mean Depth:	0.92 ft	
Slope:	0.0021	ft/ft
n:	1.100	

Beaver Creek Beaver Creek	Ranch Property			research & consulpting inc.
Date:	8-Aug-2013 M8306 Baro: M8223	Stage Info		B i o t a
Sampled by:	Ryan Key: C0140	Left Bank stake rod height	1.78 ft	$\sim$
Time:	3:30 PM	3.33 ft on staff plate	2.70 ft	~\
Staff Gage:	0.38			<b>x</b>
Meter/cup size: M	1M meter, 60 second average function			

Note: Jock (owner) gave permission to access site on phone last night cell phone: 814-442-2479;

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
				0.00	0.00	0.00
REW				0.00	0.00	0.00

Jane and Same	Anter allowed	A Service Spiller West
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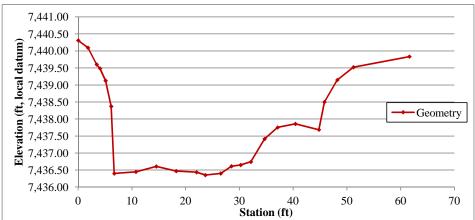
Discharge:	0.02 cfs
	0.00 (1
Area:	0.00 sq ft
Width:	0.00 ft
Mean Velocity:	#DIV/0! ft/sec
Mean Depth:	#DIV/0! ft

### Beaver Creek Beaver Creek Ranch Property

Name

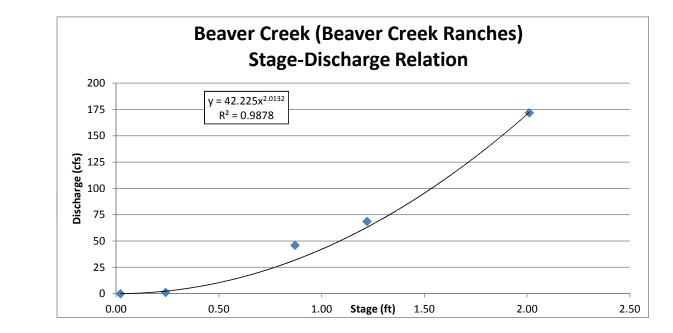
Survey Thalweg Dist	570 ft
Slope	0.0021 ft/ft
n:	0.035
Max Gauge Ht	2.37 ft
Max GH Elevation (ft)	7438.54 ft
Q	171.9 cfs
Bankfull Gauge Ht	1.58 ft
Bkfl GH Elevation	7437.75 ft
Bkfl Q	68.7 cfs

ankfull Gauge Ht kfl GH Elevation Bkfl Q	7437.75	ft		€ 7,437.00 - 7,436.50 - 7,436.00 -	)
	Elevation (USft)	Code		Dist Total	
135	( )			0	
136	7440.095	GRADE		1.8	
137	7439.602	GRADE		3.4	
138	7439.486	GRADE		4.1	
139	7439.127	GRADE		5.1	
140	7438.371	GRADE		6.1	
141	7436.4	GRADE		6.7	
142	7436.449	GRADE		10.7	
143	7436.607	GRADE		14.5	
144	7436.47	GRADE		18.2	
145		GRADE		22.0	
146				23.7	
147		-		26.5	
148				28.5	
149		-		30.2	
150				32.1	
151	7437.417	-		34.7	
152			BKFI	37.1	
153		-		40.4	
154				44.8	
155				45.8	
156				48.2	
157		-		51.2	
158	7439.834	GRADE		61.6	



### Beaver Creek Beaver Creek Ranch

Date	Stage	Discharge	Time
4/26/2013	1.23	46.01	12:00
6/25/2013	0.60	1.19	15:15
8/8/2013	0.38	0.02	15:30
peak gauge ht	2.37	171.90	
bankfull gauge ht	1.58	68.70	



set Q = 0 at GH =0.36

Q
46.01
1.19
0.02
171.90
68.70

Cottonwood C Cottonwood R		
Date:	23-Apr-2013	
Logger:	M8274	Baro: M8225
Sampled by:	Ryan Ke	ey: C0194
Time:	1:15 PM	
Staff Gage:	0.90	
Meter/cup size: A	M meter 60 second av	verage function

ter/cup size: *MM meter, 60 second average function* Note: site setup today, tied in to fall 2012 benchmark stakes

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cf
LEW	11.70	0.00	0.00	0.65	0.00	0.00
	13.00	0.35	1.32	1.65	0.58	0.76
	15.00	0.50	1.36	2.00	1.00	1.36
	17.00	0.65	1.49	2.00	1.30	1.94
	19.00	0.95	1.96	2.00	1.90	3.72
	21.00	1.20	1.99	2.00	2.40	4.78
	23.00	1.30	2.03	2.00	2.60	5.28
	25.00	1.25	1.28	2.00	2.50	3.20
	27.00	1.10	2.10	2.00	2.20	4.62
	29.00	1.10	2.06	2.00	2.20	4.53
	31.00	0.95	1.51	2.00	1.90	2.87
	33.00	0.95	1.68	2.00	1.90	3.19
	35.00	0.80	1.59	2.00	1.60	2.54
	37.00	0.70	1.68	2.00	1.40	2.35
	39.00	0.60	1.18	1.80	1.08	1.27
REW	40.60	0.00	0.00	0.80	0.00	0.00

Discharge:	42.42 cfs	
Area:	24.56 sq ft	
Width:	28.90 ft	
Mean Velocity:	1.73 ft/sec	
Mean Depth:	0.85 ft	
Slope	0.0014	ft/ft
n	0.029	

Stage Info	
Right Bank stake rod height	3.94 ft
Left Bank stake rod height	4.95 ft
3.33 ft on staff plate	5.52 ft





### Cottonwood Creek Cottonwood Ranch Property

# Date: 25-Jun-2013 Logger: M8274 Baro: M8225 Sampled by: Ryan Key: C0194 Time: 12:00 PM Staff Gage: 0.56 Meter/cup size: MM meter, 60 second average function Note: measured Q wading DS of gauge

Stage Info	
Right Bank stake rod height	3.94 ft
Left Bank stake rod height	4.95 ft
3.33 ft on staff plate	5.52 ft



	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	3.10	0.00	0.00	1.45	0.00	0.00
	6.00	0.30	0.61	2.95	0.89	0.54
	9.00	0.50	1.29	3.00	1.50	1.94
	12.00	0.70	1.96	3.00	2.10	4.12
	15.00	0.85	1.72	3.00	2.55	4.39
	18.00	0.70	0.62	3.00	2.10	1.30
	21.00	0.50	1.55	3.00	1.50	2.33
	24.00	0.20	0.84	3.00	0.60	0.50
	27.00	0.20	0.56	2.55	0.51	0.29
REW	29.10	0.00	0.00	1.05	0.00	0.00



Discharge:	15.39 cfs
Area:	11.75 sq ft
Width:	26.00 ft
Mean Velocity:	1.31 ft/sec
Mean Depth:	0.45 ft

### Cottonwood Creek

### Cottonwood Ranch Property

Date:	8-Aug-2013			
Logger:	M8274	Baro: M8225		
Sampled by:	Ryan Ke	y: C0194		
Time:	12:30 PM			
Staff Gage:	0.36			
Meter/cup size: MI	M meter, 60 second av	erage function		
Note: measured Q wading DS of gauge				

Stage Info	
Right Bank stake rod height	3.94 ft
Left Bank stake rod height	4.95 ft
3.33 ft on staff plate	5.52 ft



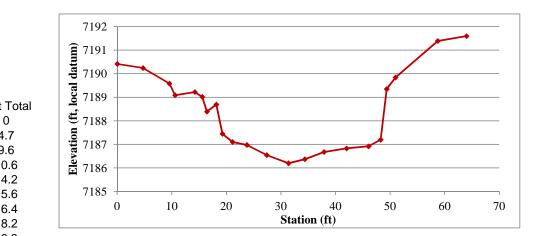
	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	5.10	0.00	0.00	0.95	0.00	0.00
	7.00	0.25	0.58	1.95	0.49	0.28
	9.00	0.35	1.01	2.00	0.70	0.71
	11.00	0.40	1.61	2.00	0.80	1.29
	13.00	0.50	1.47	2.00	1.00	1.47
	15.00	0.55	1.62	2.00	1.10	1.78
	17.00	0.55	0.47	2.00	1.10	0.52
	19.00	0.30	0.84	2.00	0.60	0.50
	21.00	0.25	0.04	1.70	0.43	0.02
REW	22.40	0.00	0.00	0.70	0.00	0.00



Discharge:	6.57 cfs
Area:	6.21 sq ft
Width:	17.30 ft
Mean Velocity:	1.06 ft/sec
Mean Depth:	0.36 ft

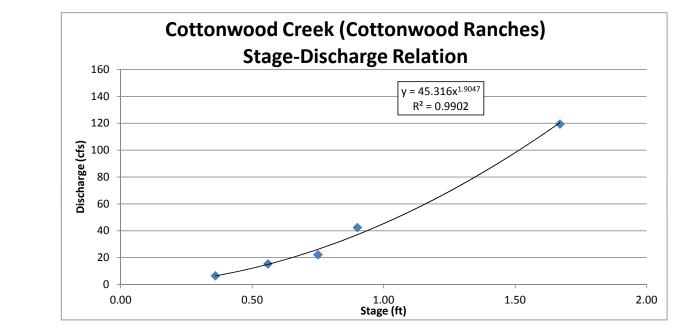
### Cottonwood Creek Cottonwood Ranch Property

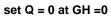
7188.35	ft	
7190.243 7189.582 7189.088 7189.024 7189.017 7188.394 7188.69 7187.452 7187.103 7186.976 7186.545 7186.545 7186.372 7186.678 7186.829 7186.917 7187.197 7189.35 7189.841 7191.39	GRADE GRADE	Dist Tota 0 4.7 9.6 10.6 14.2 15.6 16.4 18.2 19.3 21.1 23.8 27.4 31.4 34.4 37.9 42.0 46.0 48.3 49.4 51.0 58.7 64.0
	0.0014 0.029 1.67 7188.35 119.4 evation (USft) 7190.415 7190.243 7189.582 7189.088 7189.224 7189.017 7188.394 7187.452 7187.103 7186.976 7186.545 7186.198 7186.372 7186.678 7186.678 7186.829 7186.917 7189.35 7189.841 7191.39	1.67 ft 7188.35 ft 119.4 cfs



## Cottonwood Creek Cottonwood Ranches

Date	Stage	Discharge	Time
11/20/2012	0.75	22.18	11:15
4/23/2013	0.90	42.42	13:15
6/25/2013	0.56	15.40	12:00
8/8/2013	0.36	6.57	12:30
max gauge ht	1.67	119	





GH	Q
0.75	22.18
0.90	42.42
0.56	15.40
0.36	6.57
1.67	119.40

Date: 20-Nov-2012 Logger: n/a Sampled by: Ryan 8:00 AM Time: Staff Gage: 0.35

Stage Info	
Right Bank stake rod height	1.41
Left Bank stake rod height	4.38
WSEL rod height	6.54-6.55



Meter/cup size: MM meter, 60 second average function

Note: new site established today, benchmarks installed on RL bank and RR bank

shore ice and anchor ice prevalent

Site is downstream of Hwy 351 bridge about 800 ft where the right bank willows swing away from the channel

Martin Murdock gave permission to access the river 11/20/12 at 8 am when I met him at the residence; no need to call next time, just "go for it" he said

key: none

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge
LEW	14.50	0.00	0.00	2.25	0.00	0.00
	19.00	0.75	0.13	4.75	3.56	0.46
	24.00	1.00	1.00	5.00	5.00	5.00
	29.00	1.20	1.37	5.00	6.00	8.22
	34.00	1.30	1.36	5.00	6.50	8.84
	39.00	1.45	1.47	5.00	7.25	10.66
	44.00	1.50	1.69	5.00	7.50	12.68
	49.00	1.50	1.80	5.00	7.50	13.50
	54.00	1.85	1.31	5.00	9.25	12.12
	59.00	1.65	1.20	5.00	8.25	9.90
	64.00	1.60	1.27	5.00	8.00	10.16
	69.00	1.65	2.01	5.00	8.25	16.58
	74.00	1.15	1.52	5.00	5.75	8.74
	79.00	1.60	1.34	5.00	8.00	10.72
	84.00	1.60	1.49	5.00	8.00	11.92
	89.00	1.60	1.41	5.00	8.00	11.28
	94.00	1.65	1.28	5.00	8.25	10.56
	99.00	1.50	1.53	5.00	7.50	11.48
	104.00	1.25	1.09	5.00	6.25	6.81
	109.00	0.60	0.40	4.25	2.55	1.02
REW	112.50	0.00	0.00	1.75	0.00	0.00



F

Discharge: 180.64 cfs

Area:	131.36 sq ft
Width:	96.25 ft
Mean Velocity:	1.38 ft/sec
Mean Depth:	1.36 ft

0.69

Note: site installed today, surveyed in to stake set in fall of 2012 slightly turbid due to snow event last night

Date: 23-Apr-2013 Logger: M8281 Baro: M8217 Ryan 4:00 PM Sampled by: Key: C0234

Meter/cup size: MM meter, 60 second average function

Time:

Staff Gage:

Stage Info	
Right Bank stake, rod height	5.28
3.33 ft on staff plate, rod height	7.44



	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discha
LEW	16.10	0.00	0.00	0.95	0.00	C
	18.00	0.35	0.75	4.95	1.73	1
	26.00	0.90	1.87	8.00	7.20	1
	34.00	1.75	2.30	8.00	14.00	3
	42.00	1.95	2.53	8.00	15.60	3
	50.00	2.10	2.41	8.00	16.80	4
	58.00	2.20	2.73	8.00	17.60	4
	66.00	2.00	2.51	8.00	16.00	4
	74.00	1.75	2.35	8.00	14.00	3
	82.00	1.50	2.22	8.00	12.00	2
	90.00	1.60	2.04	8.00	12.80	2
	98.00	1.50	1.78	8.00	12.00	2
	106.00	1.20	1.92	8.00	9.60	1
	114.00	1.00	1.42	6.50	6.50	ę
	119.00	0.60	0.89	3.70	2.22	1
REW	121.40	0.00	0.00	1.20	0.00	C

dischare measurement wading at upstream end of riffle just downstream of gauge location

Discharge	251 70 of a
Discharge:	351.78 cfs

Area:	158.05 sq ft	
Width:	105.30 ft	
Mean Velocity:	2.23 ft/sec	
Mean Depth:	1.50 ft	
Slope	0.0019	ft/ft
n	0.038	



Date:	25-Jun-201	3	
Logger:	M82	81 Baro	: M8217
Sampled by:	Ry	an Key:	C0234
Time:	1:00 F	M	
Staff Gage:	0.	78	
A-t	1111		£

Stage Info	
Right Bank stake, rod height	5.28
3.33 ft on staff plate, rod height	7.44



Meter/cup size: MM meter, 60 second average function

Note: dischare measurement wading at upstream end of riffle just downstream of gauge location

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (
LEW	3.60	0.00	0.00	0.70	0.00	0.00
	5.00	0.60	0.14	5.20	3.12	0.44
	14.00	1.60	1.50	9.00	14.40	21.60
	23.00	1.75	2.11	9.00	15.75	33.23
	32.00	1.90	2.02	9.00	17.10	34.54
	41.00	2.25	2.34	9.00	20.25	47.39
	50.00	2.20	2.42	9.00	19.80	47.92
	59.00	1.80	2.66	9.00	16.20	43.09
	68.00	1.80	2.51	9.00	16.20	40.66
	77.00	1.80	2.44	9.00	16.20	39.53
	86.00	1.95	2.04	9.00	17.55	35.80
	95.00	1.50	1.57	7.50	11.25	17.66
	101.00	1.20	1.04	5.35	6.42	6.68
REW	105.70	0.00	0.00	2.35	0.00	0.00

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Discharge:	368.54 cfs	
Area:	174.24 sq ft	
Width:	102.10 ft	
Mean Velocity:	2.12 ft/sec	
Mean Depth:	1.71 ft	
Slope	0.0019	ft/ft
n	0.044	

Date:	8-Aug-2013	
Logger:	M8281	Baro: M8217
Sampled by:	Ryan	Key: C0234
Time:	2:00 PM	
Staff Gage:	0.26	
		<i>c </i>

Stage Info	
Right Bank stake, rod height	5.28
3.33 ft on staff plate, rod height	7.44



Meter/cup size: MM meter, 60 second average function

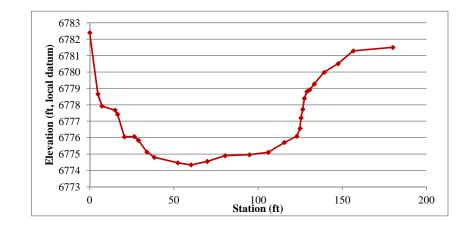
Note: dischare measurement wading at upstream end of riffle just downstream of gauge location

	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (
LEW	9.90	0.00	0.00	1.05	0.00	0.00
	12.00	0.20	0.27	6.05	1.21	0.33
	22.00	1.20	1.95	10.00	12.00	23.40
	32.00	1.45	1.73	10.00	14.50	25.09
	42.00	1.85	2.05	10.00	18.50	37.93
	52.00	1.60	2.29	10.00	16.00	36.64
	62.00	1.20	2.08	10.00	12.00	24.96
	72.00	1.20	1.69	10.00	12.00	20.28
	82.00	1.20	1.89	10.00	12.00	22.68
	92.00	1.00	1.87	10.00	10.00	18.70
	102.00	0.55	1.04	8.30	4.57	4.75
REW	108.60	0.00	0.00	3.30	0.00	0.00

Discharge:	214.74 cfs
Area:	112.78 sq ft
Width:	98.70 ft
Mean Velocity:	1.90 ft/sec
Mean Depth:	1.14 ft

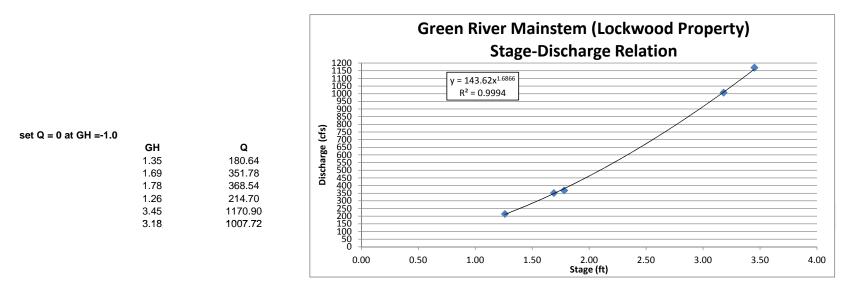


Survey Thalweg Dist Slope n:	1501 0.0019 0.041		
Max Gauge Ht Max GH Elevation (ft) Q	2.45 6778.36 1170.9	ft	
Bkfl Gauge Ht Bankfull Elevation Bankfull Q	2.18 6778.09 1007.7	ft	
Name 128 127 126 125 124 123 124 123 122 121 120 119 119 118 117 116 115 114 115 114 115 111 111 110 109 108 107 106 105 104 103 102 101	6777.675 6777.424 6776.051 6776.067 6775.84 6775.127 6774.803 6774.468 6774.343 6774.343 6774.552 6774.96 6774.96 6775.105 6775.704 6776.091 6776.564 6777.204 6777.73 6778.393 6778.393 6778.806 6778.915 6779.27	GRADE GRADE	Dist Total 0 4.9 7.3 15.1 16.5 20.6 26.4 28.9 33.9 38.3 52.3 60.2 69.8 80.4 94.9 106.0 115.6 123.0 124.8 125.5 126.5 127.4 128.9 130.6 133.3 139.2 147.4 156.5 180



### Green River Mainstem Lockwood Property

Date	Stage	Discharge	Time
11/20/2012	0.35	180.64	8:00
4/23/2013	0.69	351.78	16:00
6/25/2013	0.78	368.54	13:00
8/8/2013	0.26	214.70	14:00
peak gauge ht	2.45	1170.90	
bankfull gauge ht	2.18	1007.72	



### Horse Creek

### **BLM Property**

	Date:	26-Apr-2013	
	Logger:	M8289 E	Baro:
	Sampled by:	Ryan Key:	C0181
	Time:	3:00 PM	
	Staff Gage:	1.36	
l	Meter/cup size: M	M meter, 60 second aver	age function
	Note: si	te setup todav	

Note: site setup today Q measured in riffle downstream of gauge

Stage Info	
Right Bank stake rod height	1.59 ft
3.33 ft on staff plate	2.08 ft



	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)	
LEW	18.50	0.00	0.00	0.75	0.00	0.00	
	20.00	0.20	0.74	1.75	0.35	0.26	
	22.00	0.60	1.07	2.00	1.20	1.28	
	24.00	0.70	1.85	2.00	1.40	2.59	
	26.00	0.65	2.00	2.00	1.30	2.60	
	28.00	0.85	2.26	2.00	1.70	3.84	1000
	30.00	0.95	1.94	2.00	1.90	3.69	
	32.00	0.75	2.44	2.00	1.50	3.66	a
	34.00	0.75	2.37	2.00	1.50	3.56	
	36.00	0.80	1.85	2.00	1.60	2.96	
	38.00	0.95	1.48	2.00	1.90	2.81	
	40.00	0.60	1.23	1.75	1.05	1.29	
REW	41.50	0.00	0.00	0.75	0.00	0.00	

	State State State State
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Discharge:	28.54 cfs	
Area:	15.40 sq ft	
Width:	23.00 ft	
Mean Velocity:	1.85 ft/sec	
Mean Depth:	0.67 ft	
Slope	0.0041	ft/ft
n	0.039	

### Horse Creek

### **BLM Property**

#### Date: Logger: 25-Jun-2013 M8289 Baro:

Sampled by:	Ryan Key:	C0181
Time:	11:00 AM	
Staff Gage:	1.18	
Meter/cup size: MM met	er, 60 second averag	e function
Note:		

Q measured in riffle downstream of gauge

Stage Info	
Right Bank stake rod height	1.59 ft
3.33 ft on staff plate	2.08 ft



	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	6.90	0.00	0.00	0.55	0.00	0.00
	8.00	0.20	0.46	1.55	0.31	0.14
	10.00	0.50	1.75	2.00	1.00	1.75
	12.00	0.75	2.04	2.00	1.50	3.06
	14.00	0.95	2.75	2.00	1.90	5.23
	16.00	0.90	2.48	2.00	1.80	4.46
	18.00	0.50	1.74	2.00	1.00	1.74
	20.00	0.45	1.21	2.00	0.90	1.09
	22.00	0.65	1.99	2.00	1.30	2.59
	24.00	0.50	1.74	2.00	1.00	1.74
	26.00	0.30	1.35	2.35	0.71	0.95
REW	28.70	0.00	0.00	1.35	0.00	0.00
REW	26.00	0.30	1.35	2.35	0.71	0.95



Discharge:	22.75 cfs	
Area:	11.42 sq ft	
Width: Mean Velocity:	21.80 ft 1.99 ft/sec	
Mean Depth:	0.52 ft	
Slope	0.0041	ft/ft
n	0.031	

## Horse Creek

### **BLM Property**

# Date: 8-Aug-2013

	• · · · · · · •	
Logger:	M8289	Baro:
Sampled by:	Ryan Ke	ey: C0181
Time:	10:30 AM	
Staff Gage:	0.96	
Meter/cup size: M	M meter, 60 second av	/erage function

Note:

Q measured in riffle downstream of gauge

Stage Info	
Right Bank stake rod height	1.59 ft
3.33 ft on staff plate	2.08 ft



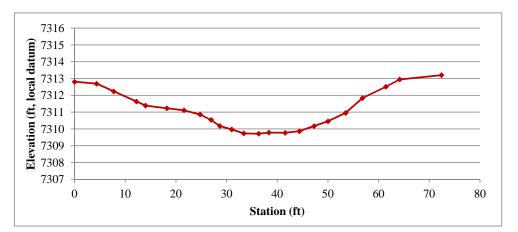
	Tape Distance (ft)	Depth (ft)	Velocity (ft/sec)	Width (ft)	Area (sq ft)	Discharge (cfs)
LEW	3.40	0.00	0.00	0.80	0.00	0.00
	5.00	0.30	0.41	2.30	0.69	0.28
	8.00	0.30	1.27	3.00	0.90	1.14
	11.00	0.50	1.60	3.00	1.50	2.40
	14.00	0.60	1.12	3.00	1.80	2.02
	17.00	0.50	1.43	3.00	1.50	2.15
	20.00	0.50	0.94	3.00	1.50	1.41
	23.00	0.20	0.56	2.40	0.48	0.27
REW	24.80	0.00	0.00	0.90	0.00	0.00



Discharge:	9.67 cfs	
Area:	8.37 sq ft	
Width:	21.40 ft	
Mean Velocity:	1.15 ft/sec	
Mean Depth:	0.39 ft	
Slope	0.0041	ft/ft
n	0.044	

# Horse Creek BLM Property

Survey Thalweg Dist	692 ft
Slope	0.0041 ft/ft
n:	0.031
Bankfull Gauge Ht	2.01 ft
Bankfull Elevation	7311.33 ft
Bankfull Q	111.2 cfs



Name	Elevation (USft)	Code	Dist Total
100	7312.809	GRADE	0
101	7312.694	GRADE	4.3
102	7312.237	GRADE	7.7
103	7311.635	GRADE	12.2
104	7311.393	GRADE	14.0
105	7311.233	GRADE	18.2
106	7311.11	GRADE	21.6
107	7310.861	GRADE	24.8
108	7310.541	GRADE	26.9
109	7310.177	GRADE	28.7
110	7309.974	GRADE	31.0
111	7309.741	GRADE	33.4
112	7309.718	GRADE	36.3
113	7309.786	GRADE	38.3
114	7309.772	GRADE	41.6
115	7309.866	GRADE	44.4
116	7310.171	GRADE	47.2
117	7310.459	GRADE	50.0
118	7310.955	GRADE	53.5
119	7311.838	GRADE	56.8
120	7312.509	GRADE	61.4
121	7312.948	GRADE	64.2
122	7313.205	GRADE	72.4

# Horse Creek BLM Property

Date	Stage	Discharge	Time
4/26/2013	0.00	28.54	15:00
6/25/2013	1.18	22.75	11:00
8/8/2013	0.96	9.67	10:30
Bankfull gauge ht	2.01	111	

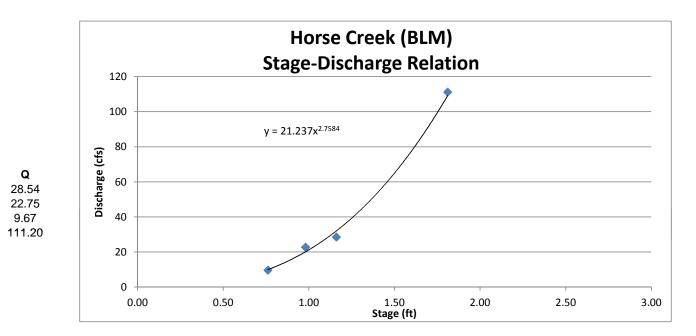
GH

1.16

0.98

0.76

1.81



set Q = 0 at GH =0.2

**APPENDIX D** 

**ALLOTMENT INFORMATION** 

### **BLM GRAZING ALLOTMENTS**

					LM GRA	ZING ALLOI											
		ALLO		TOTAL_	NUTL CLASS	CEACON LICE	SEL_MGMT					TATE_ S			DUT AUNC ALLOT	NUMBER DESTROY	SK B C
		LOT83_ D	ALLOT_NAME	AUMS NO_PEI 46	RMITT CLASS	SEASON_USE	C	STAND_AS	MT YR_ASSESSE ACR	L AU 160	M 14	ACRE A	UMS 0		RVT_AUMS ALLOT_ 32 02089		
2593269.37233 14371446.16773	6448.46273 20317.42728	3	251 Hansen Tract 252 N Beaver Tracts Ind	46 190	1 H 1 C	Not available Not available	Custodial Maintain	Met	0	703	14	0	0		0.02175	cattle	Tony Howard Tony Howard
16698021.65292	25914.66929	-	252 Robert Fracts fild 253 Rosene Ind	162	10	Not available	Custodial	wiet	0	120	42	0	0		120 02165	cattle	Tony Howard
3711961.65326	10245.57143	8	257 Lauzer Marsh Cr. Ind	296	1 C	6/16 - 7/29	Maintain		0	720	166	0	0		130 02055	cattle	Tony Howard
1264480.84900	5538.85448	9	254 N Hoback Rim Ind	113	1 C	5/1 - 7/15	Maintain	Met	2001	1963	113	0	0		0.02169	cattle	Travis Ames
6669592.36281	18451.92052	10	255 N Hoback Rim Ind	113	1 C	5/1 - 7/15	Maintain	Met	2001	1963	113	ő	ő		0 02169	cattle	Travis Ames
7466730.91466	12030.27960	11	260 Buyer Horse Cr. Ind	418	1 C	5/27 - 7/11	Maintain	mee	0	1726	351	ő	ő		67 02038	cattle	Tony Howard
8180993.43643	12022.55508	12	259 Antelope Flat Com	481	2 C	Not available	Maintain		0	890	451	ő	ő		30 22015	cattle	Tony Howard
897896.11785	3805.30529	14	263 Hay Draw Ind	77	1 C	Not available	Maintain		0	220	77	ő	ő		0 02177	cattle	Tony Howard
7423521.04583	12816.54263	15	262 Q5 Antelope Flat Ind	122	1 C & H	6/1 - 10/15	Maintain		ů.	480	122	Ő	Ő		0 02176	cattle	Tony Howard
57371648.55268	32979.41989	16	261 Hoback Rim - I	3619	1.0	6/1 - 10/31	Maintain	Met	2001	2193	695	Ő	Ő	8772	2924 02151	cattle	Travis Ames
5797913.87832	12891.43810	17	265 Glascow Ind	187	1 C	Not available	Maintain		0	80	24	Ő	Ő		163 22004	cattle	Tony Howard
9436238.79759	27271.97634	21	269 Cora Stock Driveway	877	1 C	end of June - mid october	Maintain		ů.	3500	854	Ő	Ő		23 12221	cattle	Tony Howard
21963258.13054	27942.70604	22	275 Spade Ind	1604	1 C	5/16 - 9/15	Maintain	Met	1999	2393	688	0	0		916 02072	cattle	Tony Howard
2591104.22507	6438.84860	27	273 Homestead Ind	178	1 C	Not available	Maintain		0	165	45	Ő	Ő		133 22003	cattle	Tony Howard
4738086.03336	8885.04526	28	274 Three Island Cr.	121	1 C	6/30 - 7/23	Improvement	t	0	1133	120	0	0		1 02056	cattle	Tony Howard
4908229.38273	12274.14651	29	276 Canyon Ditch Ind	165	1 C & H	6/1 - 6/15	Maintain		0	550	125	640	40	0	0 02158	cattle	Tony Howard
14879516.03751	27498.10588	31	278 40 Rod Common	542	4 C & H	5/20 - 6/30	Improvement	t	0	3587	542	0	0	0	0 22002	cattle	Tony Howard
1036954.73830	5753.17051	33	282 Warren Bridge Ind	301	1 C	8/1 - 10/15	Maintain		0	140	48	0	0	872	253 02069	cattle	Tony Howard
12915072.53937	18661.06095	35	283 Isolated Tracts Ind	83	1 C	Not available	Maintain		0	527	83	0	0	0	0 22018	cattle	Travis Ames
6326126.32267	14514.38166	36	286 Long Resevoir	766	1 C	Not available	Maintain		0	825	352	0	0	726	414 12104	cattle	Travis Ames
322956.42773	2410.72338	37	289 Horse Cr. Pasture # 1	296	1 C	5/11 -5/31	Maintain		0	160	74	0	0	400	222 02070	cattle	Travis Ames
572780.72456	3032.61836	38	285 Horse Cr. Isol. Tract	35	1 C	Not available	Maintain		0	160	35	0	0	0	0 12108	cattle	RC Lopez
9910138.86662	14979.50281	39	288 Webb Draw Pasture	708	1 C & H	5/25 - 7/09	Maintain		0	1556	417	0	0	860	291 02101	cattle	Travis Ames
8546397.67520	14041.04655	40	291 Beaver- Horse Cr I	800	1 C	5/1 - 6/30	Maintain		0	2294	584	0	0	635	216 02152	cattle	Travis Ames
7147898.35940	15011.52337	43	292 Lower Pasture Ind	288	1 C	Not available	Maintain		0	1872	284	0	0	40	4 12017	cattle	Travis Ames
3044076.51106	9277.71358	44	293 Merna Horse Cr. Ind	189	1 C	6/1 - 6/30	Maintain		0	272	65	0	0	499	124 02193	cattle	Travis Ames
1785356.31936	8064.84238	45	290 Horse Cr. Ind	296	1 C	6/10 - 8/9	Maintain		2002	440	80	0	0	1093	216 02030	cattle	Travis Ames
6637214.37702	10985.68163	47	294 Resevoir Past	81	1 C	5/25 - 10/25	Maintain		0	400	81	0	0	0	0 12103	cattle	Travis Ames
4939986.19801	10861.85137	48	295 Webb Home Pasture	5	1 C	Not available	Custodial		0	102	5	0	0	150	14 12106	cattle	Travis Ames
160521.99524	1602.85280	50	296 Horse Cr. Road Ind	43	1 C	Not available	Maintain		0	40	43	0	0	0	0 02199	cattle	RC Lopez
325301.88544	2426.28122	52	297 S.Horse Cr. Ind	10	1 C	Not available	Maintain		0	80	10	0	0	0	0 02182	cattle	RC Lopez
3697683.14787	7896.70619	53	196 Cora Peak Ind	175	1 C	6/30 - 7/29	Maintain		0	802	150	0	0	132	25 02054	cattle	Tony Howard
10319191.41497	13028.77381	54	194 West Cora Peak Ind	524	1 C	5/16 - 6/9	Maintain		0	1972	273	0	0		251 02164	cattle	Tony Howard
3875357.99359	9036.69775	56	298 Ryegrass Isolated	143	1 C	5/25 - 6/8	Maintain	Met	2001	125	18	640	83	320	42 02060	cattle	Travis Ames
881703.54952	4562.99389	59	299 Heifer Pasture Ind	86	1 C	Not available	Maintain		0	160	86	0	0	0	0 22019	cattle	Travis Ames
5265053.36030	12501.16659	60	199 Fish Hatchery Ind	56	1 C		Maintain		2002	293	56	0	0		0 22014	cattle	Travis Ames
9487757.35043	14586.14806	61	201 Noble Cora Peak Com	390	2 C	5/19 - 6/30	Maintain		0	1868	300	0	0	562	90 02160	cattle	Tony Howard
2281369.60768	7268.09273	62	200 Miller Daniel Ridge	50	1 H	5/1 - 6/30	Maintain		0	410	50	0	0	0	0 02148	cattle	Travis Ames
161502.03985	1607.53791	64	300 Cranor Building Past	11	1 C	Not available	Improvement	t NM - G	1999	80	11	0	0		0 02134	cattle	Travis Ames
161458.42087	1607.31415	65	301 Todd Pasture	11	1 C	Not available	Maintain		0	40	11	0	0		0 02105	cattle	Travis Ames
3795696.54210	8606.85634	66	207 Cora Y Com	125	1 C	5/25 - 6/14	Improvement	t	0	898	120	0	0		5 02200	cattle	Tony Howard
6051334.00455	10721.80025	67	205 Daniel "Y"	154	1 C	5/16 - 6/15	Maintain		0	1105	107	0	0		47 02147	cattle	Tony Howard
965263.35612	5911.30322	68	204 Green River Unit Ind	63	1 C	Not available	Maintain		0	0	40	0	0		23 02167	cattle	Travis Ames
8422568.66474	15285.54820	69	303 Ryegrass Individual	247	1 C	5/25 - 7/24	Maintain	Met	2001	2045	242	0	0		5 02059	cattle	Travis Ames
14482096.12549	21937.55784	70	302 James Rygrass	828	1 C	6/16 - 7/31	Improvemen	t NM - G	1999	3520	729	160	100		0 12102	cattle	Travis Ames
2633579.86536	8457.41070	71	206 J&K Daniel Ridge	61	1 C	Not available	Maintain		0	511	47	0	0		0 12107	cattle	Travis Ames
1670087.73592	5241.70796	72	206 Daniel Ridge Ind	10	1 C	5/25 - 6/14	Maintain		0	120	10	0	0		0 02000	cattle	Travis Ames
2480201.48295	6450.79290	75	210 Cora Stock Driveway	877	1 C		Maintain		0	3500	854	0	0		23 12221	cattle	Tony Howard
648236.03496	3220.64527	76	304 Ball Horse Cr. Ind	87	1 C	7/1 - 7/31	Maintain		0	297	87	0	0		0 02133	cattle	Travis Ames
36436966.42693	35148.48501	78	308 Aspen Ridge Ind	1878	2 C	5/8 - 6/30	Maintain		0	7315	1692	640	93		93 22006	cattle	Travis Ames
998455.76815	3878.92481	79	213 Cora Stock Driveway	877	1 C	end of June - mid october	Maintain		0	3500	854	0	0		23 12221	cattle	Tony Howard
225984325.80933	127032.60036	80	132 Mesa Com	5003	21 C & H	5/1 - 11/15	Maintain	Met	2001	55789	4701	1220	197		105 02031	cattle	Tony Howard
10239825.89641	14107.17968 14538.07886	81 82	217 Clark-Bloom Com	264 785	1 C	5/16 - 7/29	Improvement		1999 2001	2417 2891	262 755	0	0		2 02053 30 02174	cattle cattle	Tony Howard
11706974.88517	45906.02317	82 84	216 Q5 Soaphole	1647	1 C & H 1 C	5/16 - 7/14	Improvement Maintain	t Met	2001	2891 10108	1616	187	31		0 12205	cattle	Travis Ames
43854904.01629			314 RND VLY-Ryegrass Ind			5/12 - 7/2						18/					Travis Ames
73247.17497	1307.85054	85 87	332 Miller Home PL Ind	24 24	1 C 1 C	Not available Not available	Maintain Maintain		0	90 90	24 24	0	0		0 02178	cattle	Travis Ames
79927.68686 5301733.54212	1363.45181	87	333 Miller Home PL Ind	179	1 C		Maintain Maintain		0	90	24 109	0	0		0 02178 70 02145	cattle	Travis Ames
	14646.54486	89	312 Upper Horse Creek - I	814	1C&H	5/1 - 5/31			0	2987	435	0	0		379 02171	cattle	Travis Ames
10095158.53682 6967339.63730	16347.69210 11725.02941	90	311 Brodie Draw Ind 313 Lower Horse Creek - I	255	10.41	5/15 - 6/15	Improvement		2000	2987	255	0	0	-000	0 02144	cattle	Travis Ames Travis Ames
2446161.89976	6461.30212	90 92	310 Maki Cr. Ind	135	1 C	7/1 - 8/15	Maintain	t Met	2000	2185 640	255 135	0	0		0 02144 0 02039	cattle	Travis Ames Travis Ames
1720616.67071	6228.41962	92	220 Price Horse Cr. Ind	75	1 H	Not available	Maintain		0	426	40	0	0		35 02172	cattle	Travis Ames Travis Ames
40464887.70522	32073.12698	100	220 Flice Horse Ci. Ind 222 Mount Airy Com	758	4 C	5/16 - 6/25	Improvement	t Mot	2000	9732	757	0	0		1 02049	cattle	Tony Howard
18897793.83735	19166.56833	103	223 Grindstone Soaphole	854	4 C 1 C	5/10 - 6/9	Maintain	Met	2000	4911	781	440	73	· · · ·	0 02143	cattle	Travis Ames
14681232.66717	16221.20162	105	319 Horse Creek-Ryegrass	449	1 C	5/15 - 6/14	Improvement		2001	3573	449	440	0		0 02088	cattle	Travis Ames
17160305.90406	21583.52181	105	318 Jewett Rye Grass Ind	449	1 C	5/22 - 7/18	Maintain	•	0	4079	449	0	0		0.02088	cattle	Travis Ames
2598208.21312	8064.17695	106	316 Piney Ind	440 80	1 C	5/22 - //18 7/1 - 9/30	Maintain Maintain	Met	2000	4079 640	440 80	0	0		0 02118	cattle	Travis Ames Travis Ames
48274320.97690	39430.15187	107	231 Soaphole Com	1849	3 C & H	5/9 - 7/15	Improvement		2000	8219	1352	0	0		497 12119	cattle	Travis Ames Travis Ames
17964848.04318	21833.69908	114	322 Horse Cr. Pasture # 2	300	1 H	5/1 - 6/30	Improvemen		1558	3676	240	49	5		55 02071	cattle	Travis Ames
14254069.02633	23374.56734	120	322 Florse Cr. Pasture # 2 321 Camp Cr. Ind	782	1 C	7/16 - 9/30	Maintain	•	0	3180	715	49	0	000	67 02064	cattle	Travis Ames Travis Ames
490572.86976	3240.84693	120	239 Horse Cr. Bluff ind	12	1 C	5/16 - 6/15	Maintain		0	240	12	0	0		0 02189	cattle	Travis Ames
10598565.58344	16806.29911	126	324 School Section Ind	210	10	10-1 - 10/15	Maintain		0	1858	158	600	40	0	12 02066	cattle	Travis Ames
11861138.98514	24048.50960	120	3 Johnson Huhtah Ind	444	1 C	7/1 - 10/15	Maintain		0	950	136	660	94		214 02067	cattle	Travis Ames
22191831.38417	22873.39123	128	323 Winkelman	0	0 C	.,,	Custodial	Met	2000	0	0	0000	0		0 02045	cattle	Travis Ames
95132318.08332	54704.22722	129	1 Bench Corral Ind	3284	1 C	5/11 - 6/30	Improvement			24175	3170	966	73		41 02062	cattle	Travis Ames
24963623.50408	28489.39199	133	4 Upper Muddy Ind	2124	1 C	7/1 - 10/15	Maintain		0	5370	1874	690	200		50 02063	cattle	Travis Ames
14443581.73204	15654.79153	136	5 Beecher Ind	768	1 C	7/1 - 9/30	Maintain		0	1350	306	0	0		462 02065	cattle	Travis Ames
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### **BLM GRAZING ALLOTMENTS**

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ADEA	DEDD (ETED A	ALLO		TOTAL_	FFF CLASS	CEACON LICE	SEL_MGMT_	CTANES ACARE	VD ACCECCE A	UBLIC	PUBLIC_ S				DUT ADDE ALLOT N	UND INFEROEV	B C
		LLOT83_ D	ALLOT_NAME	AUMS NO_PERM		SEASON_USE	С	STAND_ASMT	YR_ASSESSE A	CR .					PRVT_AUMS_ALLOT_N		
12203236.59904		139	136 Luman Ind	600	1 C	5/20 - 7/19	Maintain		0	2954	600	0	0		0 12124	cattle	Tony Howard
4467261.45660	11146.28311	144	114 Price-Beecher Creek	195	1 C	Not available	Maintain		0	185	50	0	0	784	145 12222	cattle	Travis Ames
59661280.93151	37155.15731	147	7 Bench Corral Com UP	2063	3 C & H	5/10 - 6/30	Improvement		1998	14260	2009	640	44	100	10 12028	cattle	Travis Ames
1777560.86828	11528.41547	148	117 Bench Corral Com Low	2774	2 C	5/15 - 7/10	Improvement	Met	1998	22500	2635	960	120	150	19 02084	cattle	Travis Ames
6756732.32751	10485.66904	150	118 Home Ind	146	1 C	5/1 - 5/31	Maintain		0	1651	138	0	0	100	8 02146	cattle	Travis Ames
34979983.94590	35916.47597	151	9 Upper Billies Ind	2231	1 C	6/26 - 9/30	Maintain		0	8690	2214	0	0	170	17 02085	cattle	Travis Ames
98260831.25581	44343.78037	153	8 Bench Corral Com Low	2774	2 C	5/15 - 7/10	Improvement	Met	1998	22500	2635	960	120	150	19 02084	cattle	Travis Ames
11073638.80554	14441.47962	154	116 Ball Ind	668	1 C		Maintain		0	700	107	0	0	2020	561 02135	cattle	Travis Ames
5072096.47509	9839.93358	155	119 S Ridge Soaphole Com	154	2 C		Maintain		0	1081	97	0	0	259	57 02131	cattle	Travis Ames
22325142.56286	27202.27257	157	151 Marincic Mesa Ind	355	1 C	5/1 - 6/15	Improvement		0	5955	350	0	0	51	5 12132	cattle	Tony Howard
8370588.63044	13280.28841	159	10 Mickelson Bray Com	287	2 C	7/5 - 5/25	Improvement	NM G	2000	1680	238	410	39	60	10 12027	cattle	Travis Ames
9759696.95416	14461.50217	160	120 Muddy Corral Ind	288	1 C	5/1 - 5/31; 10/1 - 10/31	Maintain	1414 - 0	2000	950	170	160	29	490	89 02186	cattle	Travis Ames
28763050.68178	29814.98717	161	14 Red Canyon Com	1350	2 C	7/1 - 10/1	Maintain		0	6345	1075	640	120	450	155 12025	cattle	Travis Ames
														100			
5209140.92100	11618.42638	164	12 Lower Red Canyon Ind	183	2 C	7/1 - 9/15	Maintain		2000	550	101	0	0	600	82 02137	cattle	Travis Ames
8993089.32526	18136.65446	166	13 Dead Indian Dome Ind	461	1 C	5/20 - 6/30	Improvement	Met	1999	2170	411	0	0	500	50 02036	cattle	Travis Ames
443191.61951	2776.81486	168	123 189 Muddy Meadow Ind	36	1 C	Not available	Maintain		0	9	36	0	0	0	0 02187	cattle	Travis Ames
1862950.31413	6228.00946	170	124 Miller Piney Ind	42	1 H	Not available	Maintain		0	312	42	0	0	0	0 02149	cattle	Travis Ames
24116981.61496	19827.82163	171	17 Chapel Ind	362	1 C	5/1 - 6/30	Maintain		0	5310	257	600	55	110	50 02041	cattle	Travis Ames
10182647.74630	25010.27662	172	19 Lander Cuttoff	216	1 C	5/11 - 6/30	Improvement	Met	1998	2156	188	454	27	12	1 32224	cattle	Travis Ames
8439414.39441	14211.49507	176	15 Norris N Piney Ind	639	1 C	5/15 - 9/14	Maintain		0	580	144	0	0	2000	495 02161	cattle	Tony Howard
801894.51179	4024.28242	177	121 North Rathburn	42	1 C	6/1 - 10/15	Maintain	Met	2001	142	28	0	0	70	14 22030	cattle	Tony Howard
160362.14365	1602.50484	178	155 Cottonwood Gap - I	155	1 C	Not available	Custodial		0	46	155	0	0	0	0 12217	cattle	Travis Ames
6831931.48323	12377.94636	180	122 Rathburn Ind	472	1 C	7/1 - 10/15	Maintain	Met	2001	686	205	Ő	Ő	356	267 02138	cattle	Tony Howard
3003145.37325	8651.11357	181	157 Cottonwood Meadows	1036	1 C	Not available	Maintain	Met	2001	120	236	0	0	400	800 02042	cattle	Travis Ames
35547639.64097	30860.89095	181	16 Guio Sections Ind	1668	1 C	6/15 - 8/10	Maintain		0	2749	417	640	51	5499	1200 02086	cattle	Tony Howard
10977775.39314	18362.65272	189	126 Upper Post Ind	123	1 C	6/26 - 9/30	Maintain		0	290	123	0	0	0	0 02087	cattle	Tony Howard
22040110.75293	24523.33426	191	127 West Ind	1112	1 C	6/16 - 9/15	Maintain		0	2616	525	80	16	2856	571 02037	cattle	Tony Howard
15801304.91806	20011.20149	195	20 Gilchrist D L E Ind	42	2 C	Not available	Improvement		0	550	42	0	0	0	0 02140	cattle	Travis Ames
11716687.49218	15530.83152	196	21 Meninch Deer Hill Ind	252	1 C	5/21 - 6/30	Improvement		2001	3000	252	0	0	0	0 12127	cattle	Tony Howard
21815815.34329	21064.54493	197	22 Deer Hills Ind	708	1 Not Avail	Not available	Improvement	NM - NG	1999	5886	698	80	10	0	0 02035	cattle	Tony Howard
8660809.74073	14537.48929	199	171 Piney Bridge Ind	200	1 C	5/5 - 10/31	Maintain	Met	1998	1520	131	640	55	160	14 02155	cattle	Travis Ames
8984232.72545	16636.38094	200	129 Piney Unit Fenced	19	1 C	Not available	Custodial		0	160	19	0	0	0	0 12120	cattle	Tony Howard
10550145.52436	14038.62158	201	23 East of D L E Ind	277	1 C	6/1 - 6/30	Improvement		0	2505	271	0	0	70	6 02136	cattle	Travis Ames
5390572.98159	12643.06880	205	24 Desert land Entry Ind	75	1 C	5/15 - 6/30	Maintain		Ő	1040	75	õ	Ő	0	0 12026	cattle	Travis Ames
28294194.27467	22247.12311	205	181 NW Square Top Ind	999	1 C	5/1 - 6/28	Maintain		ŏ	6869	980	100	14	35	5 12123	cattle	RC Lopez
7079576.30826	13118.89838	207	25 West of Ranch Ind	260	1 C	5/1 - 8/30		Mat	0	1186	130	0	0	560	130 12129	cattle	
2783241.63259	7809.67549	207 208	26 Star Corral Ind	113	10	7/1 - 8/15	Improvement Maintain	Met	0	506	62	0	0	214	51 12129	cattle	Tony Howard Tony Howard
102225891.89063	40654.47890	209	180 Blue Rim Ind	3645	1 C	5/10 - 6/23	Improvement	Met	1998	36585	3258	2240	199	2120	188 02173	cattle	RC Lopez
160296013.07160	58950.66422	210	178 Blue Rim Desert	2826	4 C	5/1 - 7/6	Maintain		2002	1000	2826	0	0	0	0 12029	cattle	RC Lopez
8362136.32093	12959.01216	212	28 Johnson Ridge Ind	165	1 C	5/26 - 7/10	Improvement		1999	785	165	0	0	0	0 02196	cattle	Tony Howard
11720373.35865	14682.35280	213	29 D Budd Deer Hill Ind	305	1 C	5/16 - 6/30	Improvement	NM - G	2001	3030	293	0	0	20	12 02032	cattle	Tony Howard
1972110.48170	6491.72547	215	30 Section 18 Ind	200	1 C	10/1 - 11/30	Maintain		0	290	26	0	0	200	174 12128	cattle	Tony Howard
5499674.41645	10516.02770	217	130 Springman Cr. Ind	155	1 C	7/16 - 9/15	Maintain		0	1210	150	0	0	40	5 02197	cattle	Tony Howard
3760573.60802	9703.32744	218	19 Lander Cuttoff	216	1 C	5/11 - 6/30	Improvement	Met	1998	2156	188	454	27	12	1 32224	cattle	Travis Ames
27534591.94136	25682.60351	220	32 Muleshoe	522	1 C	5/10 - 7/9	Maintain		0	9848	490	320	26	111	6 02068	cattle	Travis Ames
154900.45791	2527.47714	221	185 Piney Bridge Ind	200	1 C	5/5 - 10/31	Maintain	Met	1998	1520	131	640	55	160	14 02155	cattle	RC Lopez
31040544.66329	26110.20162	222	33 Deer Hills Com	814	2 C & H	5/16 - 6/30	Improvement		2001	6850	731	640	68	140	15 02150	cattle	Tony Howard
7630226.46947	15122.45563	223		124				Met	2001	1540	113	5	0		11 02095	cattle	Travis Ames
7075572.09015	13699.86360	223	34 Muddy Creek Ind 131 Budd Fish Cr. Ind	150	1 C 1 C	Not available 7/1 - 8/15	Improvement Maintain	Met	2001	1650	115	0	0	100	0 02033	cattle	Tony Howard
63092904.59928	36806.55554	225	187 Stud Horse Com	1942	3 C	5/1 - 6/30	Maintain	NM - G	1999	13808	1729	1280	213	0	0 12008	cattle	RC Lopez
115635483.63697	56400.54014	226	41 Alkali Draw	1556	2 C	5/1 - 7/6	Maintain		0	1000	1556	0	0	0	0 20001	cattle	RC Lopez
1638428.69854	5133.24233	227	36 Adj to Ranch Ind	144	1 C	5/16 - 6/30	Maintain		0	80	26	0	0	0	0 02034	cattle	Tony Howard
486231.50079	2995.54501	228	37 Spence PL I Nd	8	1 C	Not available	Custodial		0	110	8	0	0	0	0 02179	cattle	Tony Howard
7538134.46015	12306.81154	230	339 Fish Creek Ind FW	1687	1 C	6/15 - 9/15	Improvement	Met	2001	1810	1597	0	0	100	90 02076	cattle	Tony Howard
171991.48293	1659.11182	231	38 Adj to Ranch Ind	144	1 C	5/16 - 6/30	Maintain		0	80	26	0	0	0	0 02034	cattle	Tony Howard
6869379.24858	13698.07439	232	39 South Piney Ind	82	1 C	Not available	Maintain	NM - G	1999	835	82	0	0	0	0 02195	cattle	Tony Howard
128447022.53358	58429.02631	233	189 Sand Draw Allotment	2324	3 C	5/1 - 7/6	Maintain	Met	2001	1000	2324	0	0	0	0 02156	cattle	RC Lopez
89375852.08279	45675.45531	234	40 Reardon Canvon Com	1347	2 Not Avail	5/10 - 9/9	Improvement		2001	21650	1121	1280	120	1000	106 02073	cattle	RC Lopez
8510435.60071	12522.94809	235	42 Labarge Unit Ind	274	1 C	Not available	Improvement		0	720	140	640	124	55	10 02194	cattle	Tony Howard
3953207.46674	8635.74893	236	43 S Piney Ranch Ind	92	10	9/1 - 10/15		NM - G	0	900	92	0+0	0	0	0 02074	cattle	Tony Howard
544612078.69164		237	67 N. Labarge Com	19398	7.0	5/18 - 10/31	Improvement		1999	154800	14501	17320	1621	34990	3276 02077	cattle	Tony Howard
3139710.67678	7908.39795	237	45 O Neil Ind	90	1 C	5/16 - 6/15	Maintain	NM - G	1999	640	14501 80	0	1021	54990 87	10 02163	cattle	
																	Tony Howard
2594515.84700	7253.52450	239	50 S Piney PL Meadows	39	1 C	Not available	Custodial		0	13	39	0	0	0	0 02079	cattle	Tony Howard
109137.71829	1437.85182	240	48 Beaver Tract Ind	48	1 C	5/16 - 9/15	Custodial		1999	12	48	0	0	0	0 02198	cattle	RC Lopez
3780317.38342	8033.51091	241	47 Beaver Cr. Ind	129	1 C	6/15 - 6/28	Maintain		0	1450	129	0	0	0	0 02141	cattle	Tony Howard
7988998.60121	15441.83053	242	49 Beaver Cr. Meadow Ind	20	1 C	6/15 - 6/28	Maintain		0	5	20	0	0	0	0 02142	cattle	Tony Howard
80363.79317	1386.27578	243	325 Johnson PL Meadows	45	1 C	Not available	Custodial		0	15	45	0	0	0	0 02078	cattle	RC Lopez
239709.90955	2179.97594	244	325 Johnson PL Meadows	45	1 C	Not available	Custodial		0	15	45	0	0	0	0 02078	cattle	RC Lopez
2286577.49558	10965.96581	246	67 N. Labarge Com	19398	7 C	5/18 - 10/31	Improvement	NM - G	1999	154800	14501	17320	1621	34990	3276 02077	cattle	Tony Howard
139874313.84103	57549,45052	247	190 South Desert Allot.	3098	6 C & S	5/1 - 7/6	Maintain	Met	2001	128778	2631	4800	348	1640	119 02040	cattle	RC Lopez
7686628.73094	21009.68730	249	69 Dry Piney Ind	30	10000	Not available	Maintain	*	2001	640	30	4000	0	0	0 02100	cattle	Tony Howard
2666210.34948	8719.29180	250	67 N. Labarge Com	19398	7 C	5/18 - 10/31	Improvement	NM G	1999	154800	14501	17320	1621	34990	3276 02077	cattle	Tony Howard
1242874.55045	5586.49537	250	67 N. Labarge Com 67 N. Labarge Com	19398	7 C	5/18 - 10/31	Improvement		1999	154800	14501	17320	1621	34990	3276 02077	cattle	Tony Howard
						5/10-10/31											
74784031.23983	49937.12804	253	85 Upper N Labarge Ind	2109	1 C	E /4 / / /20	Improvement	INM - G	1998	15690	1985	760	96	220	28 12201	cattle	Tony Howard
32124566.86436	24334.41409	254	103 Fox-Yose Common	773	2 C	5/16 - 6/30	Maintain		0	7170	693	620	62		18 02081	cattle	Kellie Roadifer
11170565.80771	14619.72209	255	81 Labarge Ind	421	1 C	7/1 - 9/30	Maintain	Met	2002	2368	337	0	0	548	84 02091	cattle	Tony Howard
465413887.81543	131605.84274	256	94 South Labarge Common	12124	7 C, H, & S	5/1 - 10/31(C); 6/1 - 6/2			0	97965	10076	5380	1205		843 22005	cattle	Kellie Roadifer
2420768.63074	9736.02488	257	86 Bird Individual	52	1 C	5/20 - 6/19	Custodial		0	230	14	432	27	175	11 12206	cattle	Tony Howard

### **BLM GRAZING ALLOTMENTS**

		ALL	OT83_I	TOTAL_			SEL_MGMT_	_ PU	JBLIC_	PUBLIC_ S	TATE_ 8	TATE_	PRVT_			
AREA	PERIMETER	ALLOT83_ D	ALLOT_NAME	AUMS	NO_PERMITT CLASS	SEASON_USE	С	STAND_ASMT YR_ASSESSE AG	CR	AUM A	CRE /	AUMS	ACRES 1	PRVT_AUMS ALLOT_NU	MB LIVESTOCK	RangeCon
9441065.6939	97 17691.22500	0 259	91 Viola Ind	226	5 1 C & H	5/15 - 9/14	Maintain	0	645	81	0	0	1000	145 12202	cattle	Tony Howard
3760891.1061	10 9072.2705	7 260	89 Jory Ind	61	I 1 C	7/1 - 7/6	Maintain	1999	320	50	0	0	160	11 02099	cattle	Tony Howard
9221419.1762	28 15302.19903	3 261	92 Yose Ind	150	) 1 C	5/26 - 6/30	Maintain	0	1920	150	0	0	540	163 12204	cattle	Tony Howard
3109996.8004	43 7130.09279	9 262	93 Fox Labarge Ind	42	2 1 C	Not available	Custodial	0	230	) 17	0	0	230	25 02080	cattle	Tony Howard
3173697.7457	73 8418.07854	4 263	95 Bonduraunt Individual	10	) 1 C	Not available	Custodial	0	160	0 10	0	0	0	0 12125	cattle	Kellie Roadifer
12699397.2015	56 17236.85935	5 264	96 Eubank S Labarge Ind	128	3 1 C	6/10 - 7/9	Maintain	0	1745	i 80	637	21	519	27 02061	cattle	Kellie Roadifer
6331192.7948	83 17025.8890	1 265	97 Labarge Cr. Ranch Ind	42	2 1 C	Not available	Maintain	0	400	) 42	0	0	0	0 02075	cattle	Kellie Roadifer
11880079.3860	02 58894.5310	1 268	112 Fontenelle MDW Ind	56	5 1 C	Not available	Custodial	0	14	56	0	0	0	0 22010	cattle	Kellie Roadifer

## BRIDGER TETON NATIONAL FOREST GRAZING ALLOTMENTS

10037.010491 10083.010491	UNIT_NO 02006 03015 02004	UNIT_NAME NORTH PINEY C&H MINK CREEK	UNIT_TYPE	REV_DATE DATA_SOURC		SHAPE_Leng 33868.239596000	SHAPE_Area 00 56027255.2336000000	DATA_DESC Acres
10083.010491	03015		1			22060 220506000	0 56027255 2336000000	
		MINIC OPEEV			0.00000000000	55606.259590000	50 50027255.25500000000	0 13844.63627710000
10035 010401	02004	MINK CREEK	1		0.00000000000	43161.686727700	00 78902343.2125000000	0 17.29016047510
10055.010491	02004	MIDDLE PINEY C&H	1		0.00000000000	) 19666.354027500	00 13485066.0027000000	0 3332.23237870000
10056.010491	02026	TWIN PEAKS BIGHORN SHEEP	1		0.00000000000	39854.847921600	47209634.1920000000	0 9171.93334873000
10034.010491	02003	INDIAN-SPRINGMAN C&H	1		0.00000000000	) 21276.990001500	24655535.3187000000	0 6092.51546022000
10033.010491	02002	FISH CREEK C&H	1		0.00000000000	35208.549866000	00 31184428.6204000000	0 7705.84013007000
10054.010491	02024	SOUTH PINEY BIGHORN SHEEP	1		0.00000000000	22016.443468000	23045619.8987000000	0 4180.60263028000
10044.010491	02013	MT DARBY BIGHORN SHEEP	1		0.00000000000	28022.342338800	27023506.0765000000	0 6677.65377762000
10001.010491	01002	BUCKSKIN KNOLL	1		0.00000000000	58181.786583200	52849829.2793000000	0 2097.84957538000
10039.010491	02008	SNIDER BASIN C&H	1		0.00000000000	47388.065649900	00 67723986.2471000000	0 16734.96145540000
10058.010491	02028	SNYDER G.S. HORSE PASTURE	1		0.00000000000	2728.325115310	480508.3791270000	0 118.73620247500
10008.010491	01011	LAKE ALICE	1		0.00000000000	44885.761008400	56878071.2652000000	0 1.71866381255
10057.010491	02027	NORTH LABARGE COMMON C&H	1		0.00000000000	39560.065339800	46691875.2709000000	0 11537.81365020000
10022.010491	01028	LABARGE CREEK	1		0.00000000000	93580.090125300	200613204.4930000000	0 46595.04170370000
10009.010491	01012	LAKE MOUNTAIN	1		0.00000000000	50476.479783600	64815311.5509000000	0 101.84140229100
10010.010491	01013	LITTLE HORNET	1		0.00000000000	36249.125041000	46757227.3155000000	0 11553.96249210000
10019.010491	01024	SOUTH FONTENELLE	1		0.00000000000	47770.060386000	00 62616666.8457000000	0 15045.18118680000
969044.010602	07045	UNION PASS FORAGE RESERVE	1		0.00000000000	57426.412805800	96320682.4586000000	0 184.62836637100
10003.010491	01006	SPRUCE CREEK	1		0.00000000000	30989.784755900	24736754.5035000000	0 3243.90586464000
10020.010491	01026	FONTENELLE	1		0.00000000000	45232.567974300	00 31533834.4453000000	0 7792.18018973000
10016.010491	01020	SHEEP MOUNTAIN	1		0.00000000000	16830.894741300	9912967.6969500000	0 2449.54766422000
10013.010491	01016	POLE CREEK	1		0.00000000000	24282.089086100	25167677.8364000000	0 0.10197416437
10002.010491	01005	DEVILS HOLE	1		0.00000000000	51310.238893800	00 79597124.6867000000	0 221.44988209900
10007.010491	01010	INDIAN CREEK	1		0.00000000000	38226.164404700	42619167.1113000000	0 39.59580813040
10171.010491	07009	ROARING FORK	1		0.00000000000	30812.701554300	00 34057432.8506000000	0 8401.69145762000
10214.010491	07070	WAGON CR HORSE ALLOT	1		0.00000000000	4752.669871250	00 754375.0772650000	0 186.41014123700
10185.010491	07023	ELK RIDGE	1		0.00000000000	24201.337700500	25760023.6211000000	0 6365.44046349000
10004.010491	01007	ELK CREEK	1		0.00000000000	37271.786965000	00 50054822.2783000000	0 132.45628868800
10213.010491	07069	NOBLE PASTURE	1		0.00000000000	) 10163.375452800	3083970.5089800000	0 762.06570905400
10188.010491	07026	LIME CREEK	1		0.00000000000	) 22196.154724900	20126594.9902000000	0 4973.38993270000
10199.010491	07037	ROCK CREEK	1		0.00000000000	21088.941559400	20832541.2838000000	0 5147.83306087000
10208.010491	07048	KENDALL ADMIN PASTURE	1		0.0000000000000	2079.711567680	237923.4182230000	58.79215701940
10163.010491	07001	BADGER CREEK	1		0.00000000000	23064.935783300	29357016.4923000000	0 7254.27675906000
10233.010491	40104	KINKY CREEK CLOSED	1		0.0000000000000000000000000000000000000	) 43292.071447900	00 42814348.2944000000	0 112.24616715900
10175.010491	07013	UPPER GREEN RIVER	1		0.00000000000	181477.857024000	00 533960258.0220000000	0 89374.56259540000
10048.010491	02017	HOBACK C&H	1		0.00000000000	) 172736.766761000	00 442396045.6240000000	0 3.96840514791
10203.010491	07041	TOSI CREEK	1		0.00000000000	44380.918934700	00 57020223.0299000000	0 14083.85161070000
	02012	FISHERMAN CRK C&H	1		0.00000000000	) 91737.203149400	00 192945087.4680000000	0 156.80191010700
	07071	WILDERNESS AREA ONE	1		0.00000000000			
	07046	GREEN RIVER DRIFT DRIVEWAY	1		0.00000000000			
	07008	POT CREEK	1		0.00000000000			
	07002	BEAVER-TWIN	1		0.00000000000			
	BLANK		1		0.00000000000			
	07006	NEW FORK-BOULDER	1		0.00000000000			
	02011	CORRAL CREEK BIGHORN SHEEP	1		0.00000000000			
	02023	GRIZZLY CREEK BIGHORN SHEEP	1		0.0000000000			
	02001	BEAVER-HORSE C&H	1		0.00000000000			
	03010	DEADMAN	1		0.00000000000			
	02019	MULE CREEK S&G	1		0.0000000000			
	02016	NORTH HORSE CREEK S&G	1		0.00000000000			
	03005	BLIND BULL	1		0.0000000000			
	02029	SHERMAN G.S. HORSE PASTURE	1		0.0000000000			
	02007	SHERMAN C&H	1		0.0000000000			
10073.010491	03004	BLACK CANYON	1		0.00000000000	35116.855206900	63905101.9463000000	0 12.03928876370

## BRIDGER TETON NATIONAL FOREST GRAZING ALLOTMENTS

CN	UNIT_NC	) UNIT_NAME	UNIT_TYPE I	REV_DATE DATA_SOURC	ACCURACY	SHAPE_Leng	SHAPE_Area	DATA_DESC Acres
10052.010491	02021	PROSPECT PEAK S&G	1		0.00000000000	31022.95310070000	36087602.72370000000	8913.28630196000
10036.010491	02005	NORTH COTTONWOOD C&H	1		0.00000000000	53213.24166860000	114027079.3830000000	28142.58838570000
10093.010491	03030	MARTEN CREEK	1		0.00000000000	41641.07619750000	48325295.2028000000	36.19870131400
10087.010491	03019	SOUTH FORK SHEEP CREEK	1		0.00000000000	26909.63125150000	34537089.0370000000	24.59020645680
10055.010491	02025	TRIPLE PEAK S&G	1		0.00000000000	35644.24753000000	42309099.5507000000	10445.80789680000
10040.010491	02009	SOUTH COTTONWOOD C&H	1		0.00000000000	30063.39088180000	48341062.7189000000	11945.33674370000
10041.010491	02010	BARE MOUNTAIN S&G	1		0.00000000000	40213.94047940000	48043024.6093000000	11637.30313490000
10051.010491	02020	NORTH PINEY S&G	1		0.000000000000	37540.41061340000	64251138.60470000000	13128.86356930000

**APPENDIX E** 

**SOIL TYPES** 

	Area	a
Soil Mapping Unit	Acres	Percent of Water- shed
No Digital Data Available	131,220	7.0%
Sandbranch-Scooby complex, 1 to 8 percent slopes	41,998	2.2%
Jonah-Luhon-Burmaloaf complex, 1 to 6 percent slopes	39,780	2.1%
Fonce-Taffom-Twocabin complex, 2 to 15 percent slopes	38,070	2.0%
Rock Outcrop	36,924	2.0%
Muddybench-Wilhelm complex, 1 to 6 percent slopes	28,480	1.5%
Fonce fine sandy loam, 0 to 4 percent slopes	26,739	1.4%
Golphco-Mountairy complex, 4 to 15 percent slopes	25,715	1.4%
Bodorumpe-Figuore complex, 1 to 10 percent slopes	21,597	1.2%
Alex-Mooseflat complex, 0 to 2 percent slopes	21,087	1.1%
Badland-Rock outcrop complex	20,880	1.1%
Buddson-Jemdilon complex, 1 to 6 percent slopes	20,318	1.1%
Rileyridge-Hourglass-Calpet complex, 15 to 50 percent slopes	20,288	1.1%
Jerry-Conwaycreek complex, 4 to 20 percent slopes	19,804	1.1%
Debone-Sandbranch complex, 1 to 6 percent slopes	19,740	1.1%
Rock outcrop-Kamack family-Pishkun family complex, 40 to 90 percent slopes	19,252	1.0%
Fonce-Twocabin-Twocabin, dry complex, 4 to 25 percent slopes	19,087	1.0%
Dillon clay loam, 0 to 2 percent slopes	18,156	1.0%
Owlcan-Cluff-Worock families complex, 10 to 50 percent slopes	17,256	0.9%
Figoure-Forelle complex, 4 to 20 percent slopes	17,205	0.9%
Onionspring-Brodie, very stony complex, 2 to 15 percent slopes	17,150	0.9%

Table 3.4.3. A tabulation of soil types in the Upper Green River watershed.

	Area	a
Soil Mapping Unit	Acres	Percent of Water- shed
Sedimentary Till-Mantled Sideslopes (North), Subalpine Fir Complex	16,994	0.9%
Pilotpeak-Boettcher-Squaretop complex, 4 to 30 percent slopes	16,821	0.9%
Jerry-Reedridge-Taylorspring complex, 15 to 50 percent slopes	16,187	0.9%
Brodie-Peaspear-Narrowridge complex, 6 to 25 percent slopes	15,564	0.8%
Foursees-Badland complex, 8 to 45 percent slopes	15,564	0.8%
Webbville loam, 1 to 3 percent slopes	15,320	0.8%
Cheeseman-Pagoda complex, 2 to 15 percent slopes	15,275	0.8%
Langspring-Rosseau complex, 2 to 15 percent slopes	15,181	0.8%
Narrowridge-Onionspring-Grovecreek complex, 4 to 25 percent slopes	14,954	0.8%
Water	14,872	0.8%
Spool-Rock outcrop complex, 8 to 40 percent slopes	14,846	0.8%
Tamarron-Enentah families complex, 40 to 90 percent slopes	14,051	0.7%
Cowdrey-Foxton-Pricepeet families complex, 0 to 40 percent slopes	13,936	0.7%
Cragosen-Rock outcrop complex, 15 to 60 percent slopes	13,499	0.7%
Bruja, extremely stony-Zagpeed complex, 4 to 30 percent slopes	13,470	0.7%
Typic Haplocryepts-Dromedary family complex, 0 to 30 percent slopes	12,946	0.7%
Mountlake, very stony-Nathrop-Scudder complex, 20 to 55 percent slopes	12,918	0.7%
Kamack-Parkcity families complex, 10 to 30 percent slopes	12,903	0.7%
Savar-Wildcow families complex, 10 to 45 percent slopes	12,303	0.7%
Coldfeet-Needleton families complex, 0 to 30 percent slopes	12,211	0.7%
Youga-Warrow, rubbly complex, 4 to 25 percent slopes	11,997	0.6%
Needleton family-Inceptic Haplocryalfs-Owlcreek familiy complex, 5 to 35 percent slopes	11,910	0.6%
Sandbranch-Obadia-Forelle complex, 0 to 4 percent slopes	11,906	0.6%

	Area	3
Soil Mapping Unit	Acres	Percent of Water- shed
Flygare-Owlcan-Savar families complex, 0 to 30 percent slopes	11,825	0.6%
Figuore-Bodorumpe complex, 4 to 20 percent slopes	11,801	0.6%
Golphco-Broback complex, 4 to 25 percent slopes	11,485	0.6%
Beavmid-Libeg complex, 1 to 6 percent slopes	11,414	0.6%
Turson clay loam, 0 to 2 percent slopes	10,994	0.6%
Forelle-Bluerim-Blackhall complex, 2 to 35 percent slopes	10,719	0.6%
Rubble Land	10,693	0.6%
Glacial Trough Sideslopes, Subalpine Fir Complex	10,692	0.6%
Jonah, noncalcareous surface-Burmaloaf complex, 1 to 4 percent slopes	10,454	0.6%
Bluerim-Zagpeed-Tigon complex, 1 to 10 percent slopes	10,374	0.6%
Taffom-Conpeak-Badland complex, 15 to 60 percent slopes	10,260	0.5%
Havermom-Sandbranch-Giarch complex, 0 to 4 percent slopes	10,119	0.5%
Vertic Haplocryalfs-Sudduth family-Starman family complex, 0 to 60 percent slopes	9,999	0.5%
Subsummit Ridges, Rubble Land-Tundra Complex	9,888	0.5%
Sedimentary Sideslopes, Subalpine Fir-Big Sagebrush-Aspen Complex	9,486	0.5%
Sledrunner-Leavitt-Bridgimmer complex, 8 to 30 percent slopes	9,464	0.5%
Wallrock loam, 1 to 4 percent slopes	9,388	0.5%
Heath-Yata families complex, 5 to 30 percent slopes	9,255	0.5%
Enentah family-Inceptic Haplocryalfs-Rubble land complex, 40 to 90 percent slopes	9,246	0.5%
Sedimentary Till Plains, Shrubby Cinquefoil-Silver Sagebrush-Big Sagebrush	9,233	0.5%
Beavet-Beavoe complex, 1 to 4 percent slopes	9,223	0.5%
Conwaycreek-Narrowridge-Brushtop complex, 10 to 35 percent slopes	9,036	0.5%
Beaveridge-Anniesdraw complex, 2 to 12 percent slopes	9,024	0.5%

	Area	a
Soil Mapping Unit	Acres	Percent of Water- shed
Billiesdraw loam, 1 to 6 percent slopes	8,974	0.5%
Furniss loam, 0 to 3 percent slopes	8,913	0.5%
Warridge-Morset complex, 1 to 6 percent slopes	8,874	0.5%
Badland-Diamondville complex, 2 to 20 percent slopes	8,755	0.5%
Helmville-Wetop, moderately deep, families complex, 20 to 60 percent slopes	8,752	0.5%
Glacial Trough Sideslopes, Forested Scree-Subalpine Fir Complex	8,542	0.5%
Rosseau-Kappes complex, 15 to 45 percent slopes	8,195	0.4%
Washboard-Gralic families complex, 20 to 60 percent slopes	8,081	0.4%
Pensore-Mantlemine-Muddke complex, 8 to 45 percent slopes	8,058	0.4%
Redlodge family-Aquic Cumulic Haplocryolls-Tetonville family complex, 0 to 4 percent slopes	8,038	0.4%
Cortyzack-Ryedraw complex, 4 to 25 percent slopes, dissected	7,836	0.4%
Sedimentary Till-Mantled Sideslopes (West), Subalpine Fir Complex	7,615	0.4%
Sedimentary Colluvial Sideslopes, Subalpine Fir Complex	7,608	0.4%
Bargeville-Libeg, very stony-Waycreek complex, 30 to 90 percent slopes	7,452	0.4%
Alcova fine sandy loam, 0 to 4 percent slopes	7,433	0.4%
Fortyrod, extremely stony-Fortyrod, extremely bouldery complex, 2 to 12 percent slopes	7,335	0.4%
Whelan loam, 0 to 2 percent slopes	7,207	0.4%
Sedimentary Sideslopes, Subalpine Fir-Big Sagebrush Complex	7,018	0.4%
Onionspring-Jerry-Conwaycreek complex, 6 to 30 percent slopes	6,918	0.4%
Grassyhollow-Conwaycreek-Dranyon complex, 15 to 50 percent slopes	6,866	0.4%
Washboard-Midfork-Wander families complex, 30 to 80 percent slopes	6,850	0.4%
Cluff family-Inceptic Haplocryalfs-Foxton family complex, 0 to 15 percent slopes	6,728	0.4%
Mantlemine-Gentleannie, very stony-Mantlemine, moist complex, 6 to 25 percent slopes	6,639	0.4%

	Are	a
Soil Mapping Unit	Acres	Percent of Water- shed
Sedimentary Chugwater Sideslopes (South), Subalpine Fir Complex	6,614	0.4%
Youman family-Vertic Argicryolls-Hourglass family complex, 0 to 30 percent slopes	6,575	0.4%
Tabyago-Zillion-Berlake complex, 20 to 60 percent slopes	6,508	0.3%
Sawell-Hogblack complex, 1 to 8 percent slopes	6,493	0.3%
Mountain Front Colluvial Sideslopes (North), Subalpine Fir Complex	6,351	0.3%
Yoda-Forelle-Tigon complex, 1 to 10 percent slopes	6,248	0.3%
Jemdilon gravelly loam, 1 to 4 percent slopes	6,127	0.3%
Wander-Kamack families complex, 40 to 90 percent slopes	6,115	0.3%
Worfman-Badland-Bluerim complex, 4 to 25 percent slopes	6,037	0.3%
Buckskin-Wesdy families complex, 0 to 30 percent slopes	5,993	0.3%
Sedimentary Moraines, Shrubby Cinquefoil-Big Sagebrush Complex	5,956	0.3%
Horsegrass clay loam, 0 to 2 percent slopes	5,895	0.3%
Obadia-Ravenhole-Rallod complex, 4 to 25 percent slopes	5,892	0.3%
Webbdraw fine sandy loam, 2 to 12 percent slopes	5,848	0.3%
Wetopa-Cimarron families complex, 20 to 60 percent slopes	5,848	0.3%
Grubrob-Bruja complex, 2 to 6 percent slopes	5,774	0.3%
Sedimentary Moraines, Aspen-Big Sagebrush-Willow Complex	5,772	0.3%
Hairpin-Harkness-Baird Hollow families complex, 0 to 30 percent slopes	5,615	0.3%
Toddhole silt loam, 0 to 2 percent slopes	5,549	0.3%
Meaver loam, 0 to 4 percent slopes	5,463	0.3%
Conwaycreek-Inabnit-Calpet complex, 8 to 30 percent slopes	5,445	0.3%
Conwaycreek, moist-Jerry-Conwaycreek complex, 15 to 40 percent slopes	5,424	0.3%
Redgap-Merna complex, 4 to 15 percent slopes	5,419	0.3%

	Area	a
Soil Mapping Unit	Acres	Percent of Water- shed
Bucklon-Yata families complex, 20 to 60 percent slopes	5,350	0.3%
Cortyzack-Ryedraw complex, 2 to 15 percent slopes	5,337	0.3%
Dillon loam, 0 to 2 percent slopes	5,331	0.3%
Sighill-Southrim-Watsondraw complex, 3 to 15 percent slopes	5,186	0.3%
Reardon sandy clay loam, 0 to 3 percent slopes	5,174	0.3%
Telcher-Enentah families complex, 30 to 60 percent slopes	5,011	0.3%
Sedimentary Moraines, Subalpine Fir Complex	5,010	0.3%
Golphco-Chinatown complex, 4 to 30 percent slopes	4,932	0.3%
Sedimentary Moraines, Subalpine Fir-Big Sagebrush Complex	4,891	0.3%
Garlet-Povey, extremely stony complex, 25 to 90 percent slopes	4,780	0.3%
Alpine Cirques, Rock Outcrop-Tundra-Willow Complex	4,754	0.3%
Warrow-Youga-Bigrant, very bouldery complex, 1 to 25 percent slopes	4,747	0.3%
Lacreek-Nathrop-Coalkiln, extremely stony complex, 30 to 75 percent slopes	4,707	0.3%
Gany, deep-Kamack-Quazar families complex, 5 to 40 percent slopes	4,656	0.2%
Sedimentary Conglomerate Sideslopes (North), Subalpine Fir Complex	4,591	0.2%
Kayso loamy sand, 0 to 4 percent slopes	4,528	0.2%
Mantlemine-Weed complex,4 to 20 percent slopes	4,503	0.2%
Coldspring-Philipsburg complex, 10 to 50 percent slopes	4,450	0.2%
Coyoteflats loam, 1 to 4 percent slopes	4,420	0.2%
Sedimentary Chugwater Sideslopes (North), Subalpine Fir Complex	4,410	0.2%
Rock outcrop-Southace complex, 25 to 80 percent slopes	4,388	0.2%
Stepp-Sigbird complex, 10 to 40 percent slopes	4,204	0.2%
Muggins, moderately deep-Lonniebie families complex, 10 to 50 percent slopes	4,186	0.2%

	Are	a
Soil Mapping Unit	Acres	Percent of Water- shed
Wander-Coldfeet-Badwater families complex, 5 to 40 percent slopes	3,940	0.2%
Sedimentary Sideslopes, Big Sagebrush-Tall Forb Complex	3,902	0.2%
Beaverdam-Telcher families complex, 20 to 60 percent slopes	3,848	0.2%
Onionspring-Jerry-Rooset complex, 4 to 15 percent slopes	3,775	0.2%
Sedimentary Till Plains, Big Sagebrush-Silver Sagebrush Complex	3,760	0.2%
Storm family-Kingmine family-Rubble land complex, 40 to 90 percent slopes	3,685	0.2%
Enentah-Coldfeet families complex, 40 to 90 percent slopes	3,655	0.2%
Owlcan-Wetopa, moderately deep, families complex, 5 to 45 percent slopes	3,650	0.2%
Sedimentary Conglomerate Sideslopes (South), Subalpine Fir Complex	3,566	0.2%
Sedimentary Moraines, Big Sagebrush-Shrubby Cinquefoil Complex	3,565	0.2%
Sedimentary Residual Sideslopes, Big Sagebrush-Grassland Complex	3,556	0.2%
Sedimentary Bottoms, Big Sagebrush-Willow-Silver Sagebrush Complex	3,489	0.2%
Billycanyon-Aagard complex, 5 to 20 percent slopes	3,476	0.2%
Sedimentary Colluvial Sideslopes, Big Sagebrush-Grassland Complex	3,447	0.2%
Sedimentary Sideslopes, Grassland-Meadow Complex	3,382	0.2%
Hellroaring-Groomer families complex, 0 to 10 percent slopes	3,368	0.2%
Bigpiney clay loam, 0 to 4 percent slopes	3,352	0.2%
Sedimentary Sideslopes, Grassland-Rock Outcrop Complex	3,228	0.2%
Maysprings-Ryark-Comer complex, 0 to 4 percent slopes	3,167	0.2%
Hourglass-Muddybench, very stony complex, 5 to 20 percent slopes	3,075	0.2%
Sedimentary Moraines, Subalpine Fir-Willow Complex	3,053	0.2%
Fonce-Dahlquist complex, 0 to 2 percent slopes	3,029	0.2%
Fonce loam, 0 to 4 percent slopes	3,028	0.2%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Cimarron-Wesdy families association, 30 to 65 percent slopes	3,020	0.2%
Onionspring-Millerlake complex, 4 to 20 percent slopes	2,983	0.2%
Sedimentary Sideslopes, Aspen-Big Sagebrush Complex	2,964	0.2%
Soapole-Soapy complex, 0 to 4 percent slopes	2,956	0.2%
Zagpeed-Sweetlette complex, 1 to 6 percent slopes	2,948	0.2%
Muggins-Yata-Swede families complex, 20 to 55 percent slopes	2,947	0.2%
Wander very rubbly-Libeg-Rock Outcrop complex, 35 to 90 percent slopes	2,916	0.2%
Sponsor-Benteen, deep families association, 10 to 70 percent slopes	2,902	0.2%
Needleton-Coldfeet families complex, 5 to 40 percent slopes	2,894	0.2%
Worfman-Worfman, moist complex, 2 to 35 percent slopes	2,874	0.2%
Twocabin very gravelly fine sandy loam, 15 to 60 percent slopes	2,868	0.2%
Sledrunner-Youga-Groomer complex, 5 to 30 percent slopes	2,867	0.2%
Narrowridge, extremely stony-Whiteman, rubbly complex, 4 to 30 percent slopes	2,851	0.2%
Abston-Diamondville-Forelle complex, 2 to 8 percent slopes	2,838	0.2%
Golphco-Pinehill complex, 6 to 25 percent slopes	2,778	0.1%
Sedimentary Terraces, Big Sagebrush-Silver Sagebrush-Shrubby Cinquefoil Com	2,740	0.1%
Burdick-Delafort-Roto complex, 2 to 12 percent slopes	2,736	0.1%
Cragosen-Drypiney complex, 6 to 35 percent slopes	2,707	0.1%
Taffom-Squaretop complex, 1 to 6 percent slopes	2,700	0.1%
Canditch-Levarge complex, 1 to 3 percent slopes	2,685	0.1%
Labarge-Whelan complex, 0 to 2 percent slopes	2,681	0.1%
Scooby-Fola complex, 2 to 10 percent slopes	2,659	0.1%
Sandbranch sandy loam, 1 to 4 percent slopes	2,641	0.1%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Lakemountain loam, 5 to 25 percent slopes	2,541	0.1%
Foxcreek-Rendezvous complex, 0 to 2 percent slopes	2,511	0.1%
Foothill Moraines, Aspen-Big Sagebrush-Shrubby Cinquefoil Complex	2,508	0.1%
Coutis fine sandy loam, 4 to 25 percent slopes	2,484	0.1%
Sedimentary Till Plains, Subalpine Fir Complex	2,474	0.1%
Teeler-Nathrop-Rock outcrop complex, 20 to 60 percent slopes	2,472	0.1%
Sedimentary Bottoms, Big Sagebrush-Willow Complex	2,467	0.1%
Sedimentary Sideslopes, Tall Forb-Subalpine Fir Complex	2,454	0.1%
Sedimentary Till Plains, Subalpine Fir-Willow Complex	2,440	0.1%
Sedimentary Ridges, Grassland	2,426	0.1%
Enentah-Gralic families complex, 10 to 40 percent slopes	2,400	0.1%
Millerlake-Brodie-Conwaycreek complex, 6 to 25 percent slopes	2,393	0.1%
Sedimentary Floodplains, Willow-Meadow Complex	2,352	0.1%
Muggins-Seth-Horsethief families complex, 10 to 40 percent slopes	2,322	0.1%
Diamondville-Oasiswell-Forelle complex, 1 to 10 percent slopes	2,280	0.1%
Lagarita-Millerlake complex, 5 to 35 percent slopes	2,276	0.1%
Voldseth sandy loam, 0 to 4 percent slopes	2,218	0.1%
Grubrob-Quealy complex, 2 to 15 percent slopes	2,208	0.1%
Forelle-Bluerim-Cotha complex, 1 to 6 percent slopes	2,158	0.1%
Fonce-Poposhia-Taffom complex, 1 to 8 percent slopes	2,154	0.1%
Mountain Front Colluvial Sideslopes (South), Subalpine Fir Complex	2,069	0.1%
Hourglass family-Targhee family-Rubble land complex, 50 to 80 percent slopes	2,068	0.1%
Herd family-Vertic Haplocryalfs-Eutric Haplocryalfs complex, 10 to 50 percent slopes	2,038	0.1%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Subsummit Uplands, Tundra-Willow-Rock Outcrop Complex	2,009	0.1%
Sedimentary Sideslopes, Big Sagebrush-Silver Sagebrush Complex	1,979	0.1%
Coyoteflats-Weed complex, 4 to 15 percent slopes	1,946	0.1%
Calsig-Kismetpeak complex, 10 to 35 percent slopes	1,932	0.1%
Bigpiney-Reardon complex, 2 to 6 percent slopes	1,910	0.1%
Glaciers & Snowfields	1,853	0.1%
Sedimentary Sideslopes, Rock Outcrop-Subalpine Fir-Grassland Complex	1,852	0.1%
Forelle-Blazon, extremely stony-Delphill complex, 4 to 35 percent slopes	1,846	0.1%
Bridgefore-Mccort complex, 5 to 30 percent slopes	1,796	0.1%
Sedimentary Moraines, Big Sagebrush-Alkali Sagebrush Complex	1,765	0.1%
Booneville-Mayflower-Wetopa, moderately deep, families complex, 10 to 40 percent slopes	1,737	0.1%
Spang-Ferball-Ceek complex, 2 to 15 percent slopes	1,728	0.1%
Diamondville-Fluetsch complex, 1 to 6 percent slopes	1,634	0.1%
Pishkun, moderately deep-Helmville families complex, 35 to 75 percent slopes	1,631	0.1%
Sedimentary Terraces, Big Sagebrush-Shrubby Cinquefoil Complex	1,605	0.1%
Whiteman extremely channery loam, 4 to 30 percent slopes	1,604	0.1%
Turson-Rendezvous complex, 0 to 2 percent slopes	1,426	0.1%
Libeg-Grovecreek complex, 2 to 15 percent slopes	1,403	0.1%
Beaverslide silt loam, 0 to 2 percent slopes	1,354	0.1%
Sedimentary Moraines, Big Sagebrush-Silver Sagebrush-Willow Complex	1,353	0.1%
Beaverdam family-Inceptic Haplocryalfs-Aquic Argicryolls complex, 0 to 20 percent slopes	1,305	0.1%
Sedimentary Trough Floors, Meadow-Willow-Grassland Complex	1,282	0.1%
Boettcher-Sandbranch-Cushool complex, 1 to 6 percent slopes	1,266	0.1%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Hobacker family-Cumulic Haplocryolls-Tonsina family complex, 0 to 15 percent slopes	1,255	0.1%
Pepton-Grefont-Quealy complex, 5 to 25 percent slopes	1,233	0.1%
McFadden-Pahlow-Anchutz complex, 1 to 8 percent slopes	1,217	0.1%
Starley, rubbly-Fontback complex, 2 to 12 percent slopes	1,194	0.1%
Sedimentary Bottoms, Willow Complex	1,185	0.1%
Washboard-Targhee families complex, 40 to 70 percent slopes	1,124	0.1%
Sedimentary Moraines, Silver Sagebrush-Big Sagebrush-Willow Complex	1,071	0.1%
Toddcan sandy clay loam, 0 to 2 percent slopes	1,048	0.1%
Sedimentary Ridges, Tundra-Rock Outcrop Complex	1,002	0.1%
Moslander-Finn-Philipsburg complex, 0 to 4 percent slopes	970	0.1%
Grafen-Storm complex, 35 to 70 percent slopes	961	0.1%
Sedimentary Floodplains, Meadow-Willow Complex	950	0.1%
Lehunt family-Mollic Palecryalfs-Tamarron family complex, 5 to 30 percent slopes	897	<0.1%
Bluerim-Figuore-Forelle complex, 1 to 8 percent slopes	891	<0.1%
Rock outcrop-Rubble land complex	847	<0.1%
Eyre, rubbly-Rock outcrop complex, 15 to 40 percent slopes	817	<0.1%
Groomer-Paulson-Baird Hollow families complex, 0 to 30 percent slopes	778	<0.1%
Sandbranch-Kandaly complex, 1 to 10 percent slopes	771	<0.1%
Starman-Kamack families complex, 20 to 60 percent slopes	771	<0.1%
Foothill Moraines, Subalpine Fir Complex	715	<0.1%
Roundy family-Vertic Argicryolls-Typic Haplocryolls complex, 10 to 30 perce	698	<0.1%
Maysprings-Rawlins complex, 4 to 8 percent slopes	692	<0.1%
Elwood-Gany-Swede families complex, 0 to 30 percent slopes	664	<0.1%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Youman-Wetopa complex, 5 to 25 percent slopes	592	<0.1%
Inceptic Haplocryalfs-Vandamore family-Herd family complex, 20 to 60 percent slopes	588	<0.1%
Beaverdam family-Gany family-Cumulic Haplocryolls complex, 0 to 15 percent slopes	575	<0.1%
Doolittle-Narrowridge complex, 4 to 15 percent slopes	567	<0.1%
Cuberant-Henson families complex, 0 to 20 percent slopes	562	<0.1%
Swede-Dromedary, deep-Horsethief families complex, 0 to 10 percent slopes	552	<0.1%
Fonce sandy clay loam, 4 to 8 percent slopes	547	<0.1%
Figuore-Jonah-Burmaloaf complex, 1 to 6 percent slopes	544	<0.1%
Mountain Front Floodplains, Meadow-Willow-Silver Sagebrush Complex	513	<0.1%
Zagpeed fine sandy loam, 2 to 6 percent slopes	503	<0.1%
Ezbin-Sawpit-Gateview families complex, 0 to 30 percent slopes	490	<0.1%
Dutchdan-Jefflake complex, 2 to 15 percent slopes	488	<0.1%
Enentah family-Lithic Cryorthents-Ezbin family complex, 5 to 40 percent slopes	449	<0.1%
Kismetpeak-Calsig complex, 35 to 70 percent slopes	443	<0.1%
Alcova sandy loam, 4 to 8 percent slopes	418	<0.1%
Gourley-Kismetpeak-Bridgerton complex, 15 to 40 percent slopes	399	<0.1%
Gourley-Bridgimmer-Kismetpeak complex, 4 to 20 percent slopes	389	<0.1%
Foolhen-Kilgore-Toddhole, extremely bouldery complex, 1 to 4 percent slopes	373	<0.1%
Bighole loam, 0 to 2 percent slopes	357	<0.1%
Gragoreo loamy fine sand, 1 to 6 percent slopes	315	<0.1%
Foothill Till Plains, Big Sagebrush Complex	303	<0.1%
Merino, very stony-Rock outcrop complex, 2 to 12 percent slopes	280	<0.1%
Brushfire-Tomichi-Tine complex, 0 to 6 percent slopes	249	<0.1%

	Area	
Soil Mapping Unit	Acres	Percent of Water- shed
Typic Cryoboralfs, loamy-skeletal, mixed-Typic Cryorthents, loamy-skeletal	230	<0.1%
Foothill Moraines, Aspen-Big Sagebrush Complex	203	<0.1%
Groomer-Foxton-Burnette families complex, 0 to 15 percent slopes	200	<0.1%
Foothill Floodplains, Willow-Meadow Complex	189	<0.1%
Typic Cryoboralfs, loamy-skeletal, mixed-Mollic Cryoboralfs, fine-loamy	169	<0.1%
Tabersand-Diamondville-Swissvale complex, 2 to 20 percent slopes	164	<0.1%
Juel-Teakettle-Figuore complex, 1 to 8 percent slopes	141	<0.1%
Starman-Midfork families complex, 40 to 90 percent slopes	136	<0.1%
Baird Hollow family-Mollic Haplocryalfs-Wander family association, 0 to 30	135	<0.1%
Typic Cryohemists, 0 to 2 percent slopes	128	<0.1%
Geohrock gravelly sandy loam, 1 to 4 percent slopes	127	<0.1%
Biedell-San Luis complex, 0 to 2 percent slopes	119	<0.1%
Subsummit Bottoms, Willow-Meadow Complex	114	<0.1%
Forelle-Swissvale-Bluerim complex, 2 to 8 percent slopes	107	<0.1%
Mcfadden fine sandy loam, 2 to 5 percent slopes	90	<0.1%
Mountain Front Bottoms, Meadow-Willow Complex	80	<0.1%
Typic Cryoboralfs, loamy-skeletal, mixed-Typic Cryochrepts, loamy-skeletal	54	<0.1%
Foothill Sideslopes, Aspen-Big Sagebrush Complex	32	<0.1%
Argic Pachic Cryoborolls, fine-loamy, mixed-Argic Pachic Cryoborolls,	29	<0.1%
Argic Cryoborolls, loamy-skeletal, mixed, very cobbly-Argic Cryoborolls, fi	25	<0.1%
Foothill Sideslopes, Big Sagebrush-Aspen-Subalpine fir Complex	18	<0.1%
Doolittle-Wetopa-Helmet families complex, 10 to 50 percent slopes	11	<0.1%
Argic Cryaquolls-Lemhi complex, 0 to 4 percent slopes	10	<0.1%

**APPENDIX F** 

HYDROLOGIC MODEL

# **APPENDIX F**

# HYDROLOGIC MODEL

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#### **1. INTRODUCTION**

#### **1.1 BACKGROUND**

The Green River Model is a water allocation model that can be used to estimate availability of water to irrigators and other water users and projects, based on hydrology, water rights, and operating rules and practices. The model simulates current demands, current infrastructure and projects, and the current administrative environment as though they are in place throughout the 1971 to 2011 study period.

The Green River Model is an implementation of "StateMod," a code developed by the State of Colorado for application in the Colorado Decision Support System (CDSS) project.

The Green River Model was developed as a tool to test the impacts of proposed diversions, reservoirs, water rights and/or changes in operations and management strategies. The model can simulate proposed changes using a highly variable physical water supply constrained by administrative water rights. The Baseline data set can serve as the starting point, demonstrating conditions of the stream absent the proposed change but including current conditions. To estimate the performance and effects of proposed changes, it is recommended the user compare the Baseline simulation results to results from a model simulation to which they have added the proposed features.

#### **1.2 DEVELOPMENT OF STATEMOD MODEL**

The overall objective of the Green River Model is to adequately represent water demands, supplies, and operations on the main stem Green River and its tributary river basins that comprise the Green River basin within the State of Wyoming. Additional objectives focused on the usability and flexibility of the planning model.

In addition to the use of the StateMod model, the Green River Model was developed using many of the CDSS standards. This included use of the Data Management Interface (DMI) tools StateDMI and TSTool to both create input files and view model results. The DMIs allow revisions and updates to be made to the model quickly, while minimizing the opportunity for data formatting errors.

#### **1.3 RESULTS**

The key results of the Green River Model are as follows:

- An Historical data set was developed over the 1971 through 2011 using a monthly time step.
- The model was not calibrated to historical conditions due to the difficulty calibrating to historical records, the majority of which, are estimated.
- A water resources planning model was developed that can make comparative analyses of historical and future water management policies on the Green River and its tributary basins.
- A Baseline data set was prepared that simulates existing water resources systems online and operational for 1971 through present. The Baseline data set simulation results represent the Baseline shortages to current irrigation demands and the availability of water for junior water rights.
- The Baseline data set is an appropriate starting point for evaluating various "what if" scenarios over a long hydrologic time period containing dry, average, and wet hydrologic cycles.

### **1.4 FUTURE ENHANCEMENTS**

The Green River Model can be enhanced in the future by incorporating additional information gained by consulting with the Division Engineer and other major water users regarding historical and future reservoir and river system operations.

#### 2. MODELING APPROACH

This section describes the approach used, from a general perspective, in developing the Thornton Water Rights Yield Model. It addresses scope and level of detail of this model in both the space and time domains, and describes how certain hydrologic processes are parameterized.

## 2.1 MODELING OBJECTIVES

The objective of the Green River Modeling effort was to develop a water allocation and accounting model that the Wyoming Water Development Office can apply to evaluation of planning issues or management alternatives.

The model provides a consistent representation of the basin hydrology, adequate accounting of demands, water rights, water supplies, and basin operations.

Model input files can be modified and updated easily using the DMIs. Additionally, the model includes the ability to check data input to the model, add enhancements over time (e.g., to include add new storage units, storage water rights, and reservoir operations), make

modifications to operations (e.g., can operational alternatives be added and model simulation results be reviewed quickly), and present model inputs and outputs.

The resulting Baseline data set is one representation of current water uses, demands, and administrative conditions, which can serve as the basis in paired runs comparing river conditions with and without proposed future changes. By modifying the Baseline data set to incorporate the proposed features to be analyzed, the user can create the second input data set of the pair.

## 2.2 MODEL COVERAGE AND EXTENT

### 2.2.1 NETWORK DIAGRAM

Figure 2.1 shows the geographic extent of the area covered by the model network. The model extends from the upper Green River to the Town of Green River, above Flaming Gorge Reservoir. Major tributaries to the Green River above Fontenelle Reservoir (Beaver Creek, Horse Creek, Cottonwood Creek, Piney Creek, and Fontenelle Creek) are included. The New Fork River basin and its major tributaries (Willow Creek, Pine Creek, Pole Creek, Fall Creek, Boulder Creek, and Silver Creek) are also included. Other tributaries to the Green River below Fontenelle Reservoir (Big Sandy River and Bitter Creek) are represented as inflows based on streamflows recorded at the lower stream gages on the respective tributaries. Note the model extent does not include Flaming Gorge Reservoir or the Green River tributaries below the Town of Green River.

Figure 2.2 shows the network diagram for the Green River Model. It includes 126 nodes that represent the study area. The network file is included with the Baseline data set and can be viewed, enlarged, and printed through StateDMI.

## 2.2.2 DIVERSION STRUCTURES

## Key Diversion Structures

There are 15 major ditches in the basin, defined as those ditches with consistent diversion recorded by Wyoming SEO Division IV personnel. These diversions are explicitly modeled, which indicates each ditch and corresponding demand is represented individually as a key structure, rather than being aggregated with other structures.

## Aggregate Diversion Structures

Diversion systems represent irrigation structures that operate similarly and serve a common purpose. The diversions systems are aggregated by geographic area (e.g., upper North Fork Piney River).

There are 48 aggregate diversion nodes in the model network.

## Municipal and Industrial Uses

Several municipal and industrial uses are modeled explicitly in the Green River Model. These include the Towns of La Barge, Pinedale, and Green River, and industrial demands below Fontenelle Reservoir, including FMC, Westvaco, General Chemical, and OCI.



Figure 2.1 Green River Model Geographic Extent

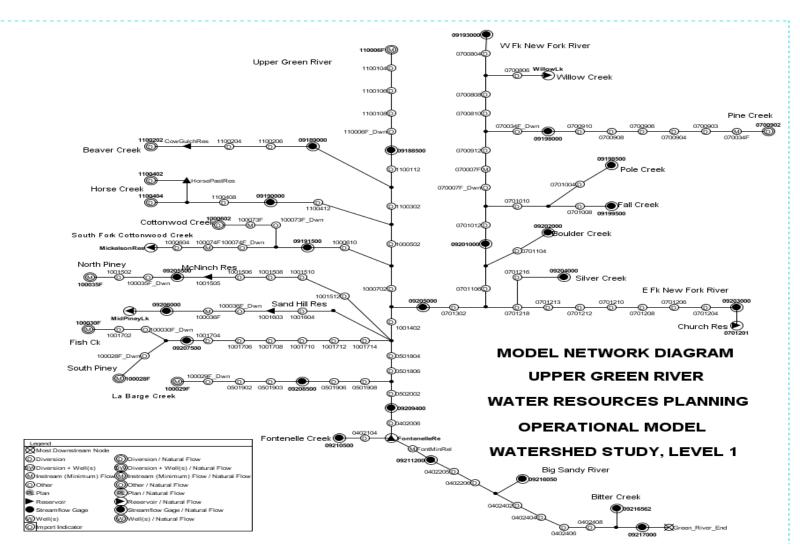


Figure 2.2 Green River Model Network Diagram

## 2.2.3 RESERVOIRS

#### Key Reservoirs

Three major reservoirs within the model study area are explicitly modeled (Fontenelle Reservoir, Willow Lake, and Middle Piney Lake). The three reservoirs

Six additional reservoirs previously contemplated in basin studies are added as placeholders for future modeling efforts (Church Reservoir, McNinch Reservoir, Sand Hill Reservoir, Cow Gulch Reservoir, Horse Pasture Reservoir, and Mickelson Reservoir.

#### 2.2.4 INSTREAM FLOW STRUCTURES

The model includes 11 instream flow structures. Ten of the structures represent permitted or pending instream flow water rights. One of the structures represents a 450 cfs bypass flow below Fontenelle Reservoir.

The water rights and demands associated with the instream flows structures are discussed in Section 3.6.

#### 2.3 MODELING PERIOD

The Green River Model data set extends from 1971 through 2011 and operates on a calendar year basis.

#### 2.4 DATA FILLING

The majority of data used in the Green River Model is gathered from other sources, in particular the USGS and the Division 4 Hydrographers office. Not all time series data used in the StateMod data sets for the Green River Model are complete. Various approaches are used to fill missing data. The CDSS DMI tools are used, to the extent possible, to automate the estimation process. Use of the DMIs provides consistency in model users' attempts to modify and regenerate input files for future model scenarios.

## 2.4.1 HISTORICAL MONTHLY TIME SERIES FILLING

### Key Diversion Structures

Spot diversion records for the 15 major ditches in the basin are maintained in Date Value (\*.dv) files. The Date Value files are first read by the TSTool DMI and the missing daily data between spot records are filled forward from one record to the next. The daily data are then summed by TSTool and converted to ac-ft values. Any missing data for the key diversion structures is filled based on historical monthly averages.

## Aggregate Diversion Structures

Diversion systems represent irrigation structures that do not have historical diversion records. Therefore, historical diversions for the entire study period are estimated with the DMIs and the StateCU consumptive use model. The StateCU Model is maintained by the State of Colorado and is capable of estimating irrigation water requirements via different methodologies. StateCU is an integral part of the data-centered StateMod modeling approach because the output from the StateCU model runs feed into the input files required by StateMod.

Historical diversions for the aggregate structures are estimated based on water shortages estimated at nearby explicitly-modeled structures.

#### Municipal and Industrial Uses

Municipal and industrial demands developed in previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model) were carried into the Green River Model.

#### 2.5 CONSUMPTIVE USE AND RETURN FLOW AMOUNTS

The related values, consumptive use and return flow, are key components of simulation in water resources modeling. Consumptive use is the depletive portion of a diversion, the amount that is taken from the stream and removed from the hydrologic system by virtue of its beneficial use. The difference between the diversion and the consumptive use constitutes the return flow to the stream. During simulation, return flows affect availability of water in the stream during the time step of diversion, and in subsequent time steps.

## 2.5.1 EFFICIENCY OF IRRIGATION USE

Generally, the efficiency of irrigation structures in the Green River Model varies by month. Monthly efficiencies are calculated in the StateCU model. The StateCU model estimates the irrigation water requirement (IWR) over the study period for all diversions structures. System efficiencies are calculated each month for the explicit structures based on IWR divided by river diversion. The system efficiency represents all losses in ditches, laterals, and through on-farm application of water. A maximum system efficiency of 55 percent is input to the StateCU program based on past studies of irrigation use in the basin. The monthly efficiencies for the explicit structures are then set equal to average system efficiency calculated for each month of the irrigation season, up to a maximum of 55 percent. The monthly pattern is the same in each simulation year.

The aggregate structures do not have historical diversion records from which efficiencies could be calculated. Therefore, the average monthly efficiencies for the explicit structures located near the aggregate structures are assigned to those aggregate structures.

### 2.5.2 CONSTANT EFFICIENCY FOR OTHER USES AND SPECIAL CASES

In specific cases, the Green River Model applies an assumed, specified annual or monthly efficiency to a diversion in order to calculate consumptive use and return flows. Although the efficiency may vary by month, the monthly pattern is the same in each simulation year. This approach is applied to municipal and industrial users.

The municipal demands for the Town of La Barge and Town of Pinedale are assigned 10 percent efficiencies based on centralized wastewater treatment. The industrial demands below Fontenelle Reservoir are assigned 100% efficiencies, which results in no returns from diversions simulated to meet the demands. Note the Town of Green River demand is aggregated with a number of industrial demands in the lower basin and, therefore, the efficiency of water diverted to the municipal portion of the associated approximately 35,000 acre-feet per year demand is 100 percent.

## 2.6 DISPOSITION OF RETURN FLOWS

#### 2.6.1 RETURN FLOW TIMING

Return flow timing is input to the model by specifying what percentage of the return flow accruing from a diversion reaches the stream in the same day or month as the diversion, and in each day or month following the diversion. Four different return flow patterns are used in the Green River Model. One pattern represents instantaneous (within the same

day or month as the diversion) returns and is applied to municipal inside use and nonconsumptive diversions.

Three other patterns are generalized irrigation return patterns, applicable to irrigated crops relatively "close" and "further" from the stream. These return patterns were developed for previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model). All three patterns direct 100 percent of the returns to the river system within four months of the month of diversion, with the first month of returns ranging from about 45 percent to 65 percent.

### 2.6.2 RETURN FLOW LOCATIONS

Return flow locations from explicit structures are estimated from previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model). Return flows from aggregate irrigation structures are set to accrue to the next downstream node.

#### 2.7 BASEFLOW ESTIMATION

In order to simulate river basin operations, the model typically uses the amount of water that would have been in the stream if none of the operations being modeled had taken place. These undepleted flows are called "baseflows". The term is used in favor of "virgin flow" or "naturalized flow" because it recognizes that some historical operations can be left "in the gage", with the estimation that those operations and impacts will not change in the hypothetical situation being simulated.

The Green River Model is intended for use in investigating "what if" scenarios related basin operations. The raw water supplies come from two major river basins – the Upper Green River and New Fork River. Developing a model with historical operations on the Green River and on the major tributaries is necessary to represent water available to the overall Green River system. The inflows recorded estimated at the tops of the tributary or river systems in the model study area are used as a substitute for baseflows. This simplification is appropriate to estimate changes from the Baseline data set attributed to future infrastructure development, changes to irrigation water rights, and changes in operations.

Given data on historical depletions and reservoir operations, StateMod can estimate baseflow time series at specified discrete inflow nodes. This process was executed prior to executing simulations, and the resulting baseflow file became part of the input data set for subsequent simulations. Baseflow estimation requires two steps: 1) Adjust USGS stream gage flows using historical records of operations to get baseflow time series at gaged points, for the gage period of

record, and 2) Distribute baseflow gains above and between gages to user-specified, ungaged inflow nodes. These two steps are described below.

#### 2.7.1 BASEFLOW COMPUTATIONS AT GAGES

Baseflow at a site where historical gage data is available is computed by adding historical values of upstream depletive effects to the gaged value, and subtracting historical values of upstream augmenting effects from the gaged value:

 $Q_{baseflow} = Q_{gage} + Diversions - Returns + - \Delta Storage + Evap$ 

Historical diversions and reservoir contents are provided directly to StateMod to make this computation. Evaporation is computed by StateMod based on historical evaporation rates and reservoir contents. Return flows are similarly computed based on diversions, and efficiencies, as described in Section 2.5, and return flow parameters, as described in Section 2.6.

#### 2.7.2 DISTRIBUTION OF BASEFLOW TO UNGAGED POINTS

In order for StateMod to have a water supply to allocate in tributary headwaters, baseflow must be estimated at all ungaged headwater nodes. In addition, baseflow gains between gages are modeled as entering the system at ungaged points, to better simulate the river's growth due to generalized groundwater contributions and unmodeled tributaries.

StateMod has an operating mode in which, given baseflows at gaged sites and physical parameters of the gaged and ungaged sub-basins, it distributes baseflow gains spatially. The default method ("gain approach") for assigning baseflow to ungaged locations prorates baseflow gain above or between gages according to the product of drainage area and average annual precipitation. That is, each gage is assigned an "Area\*Precipitation" (A\*P) term, equal to the product of total area above the gage, and average annual precipitation over the gage's entire drainage area. Ungaged baseflow points are assigned an incremental "A\*P", the product of the incremental drainage area above the ungaged

baseflow point and below upstream gages, and the average annual precipitation over that area.

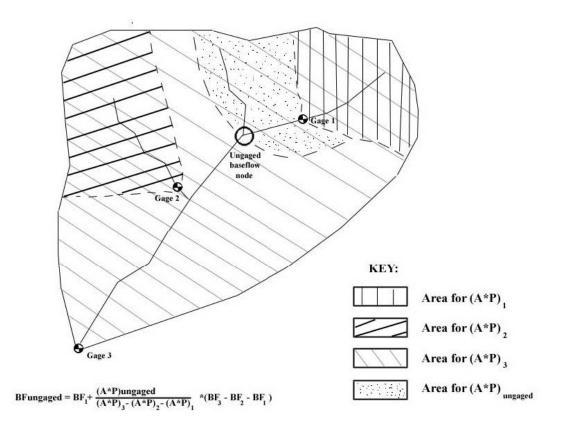


Figure 2.7 Hypothetical Basin Illustration

Figure 2.7 illustrates a hypothetical basin and the areas associated with each of three gages and an ungaged location. The portion of the baseflow gain below Gages 1 and 2 and above Gage 3, at the Ungaged location between the gages, is the gage-to-gage baseflow gain (BF3 minus (BF2 + BF1)) times the ratio (A\*P)ungagged / [(A\*P)downstream gage -  $\Sigma$  (A\*P)upstream gage(s)]. Total baseflow at the ungagged location is equal to this term, plus the sum of baseflows at upstream gages. In the example there is only one upstream gage, having baseflow BF1.

### 2.8 HISTORICAL CALIBRATION

Calibration is the process of simulating the river basin under historical conditions, and judiciously adjusting parameter estimates to achieve a reasonable level of agreement between observed and simulated values of streamflow gages, reservoir levels, and diversions. The Green River Model was not directly calibrated since much of the input data are estimated as discussed in Section 2.4. Continuing the approach used in previous StateMod models developed for the basin, the model focuses on establishing a Baseline data set and making that data set available for comparison to different "what if" scenarios.

### 2.9 BASELINE DATA SET

The Baseline data set is intended as a generic representation of recent conditions in the model study area, to be used for "what if" analyses. It represents one interpretation of current uses, and operational and administrative conditions, as though they prevailed throughout the modeling period.

Existing water resources systems, water rights, and future levels of demand are included and operational in the Baseline data set from 1971 forward. The Baseline data set is a starting point, which the user may choose to add to or adapt for a given application or interpretation of probable demands and near-term conditions. A particular example for scenario comparison would be operations with the inclusion of a new gravel pit or enlargement of an existing gravel pit, compared against current operations.

## 2.9.1 CALCULATED IRRIGATION DEMAND

In the Baseline data set, irrigation demand is set to a time series based on crop irrigation water requirement and average irrigation efficiency for the structure. This "Calculated Demand" is an estimate of the amount of water the structure could divert absent physical or legal availability constraints. Thus if more water was to become available to the diverter under a proposed new regime, the model would allow an irrigator with sufficient water rights to divert more water for beneficial use than occurred historically.

Calculated demands must account for both crop needs and irrigation practices. Monthly calculated demand is generated directly, by taking the maximum of crop irrigation water requirement divided by average monthly irrigation efficiency, and historical diversions. The irrigation application efficiency is calculated as discussed in Section 2.5.1, and may not exceed the defined maximum application efficiencies of 55 percent. Therefore, for a perennially shorted diversion (diversion times maximum efficiency is, on average, less than irrigation water requirement) the calculated demand may be greater than the historical diversion for some months.

## 2.9.2 MUNICIPAL AND INDUSTRIAL DEMAND

Municipal and industrial demands are set to historical diversion values input to the model.

## 2.9.3 RESERVOIRS

Reservoirs are represented as being on-line throughout the study period, at their current capacities. Initial reservoir contents for Middle Piney Lake and Willow Lake are set to full since they are operated primarily for recreational purposes. The initial storage content for Fontenelle Reservoir is set to 200,000 acre-feet. The reservoirs included in the model as placeholders for proposed reservoirs are set to be empty at the beginning of the study period.

## **3. BASELINE DATA SET**

This section describes each StateMod input file in the Baseline Data Set. The data set, described in more general terms in Section 2.9, is expected to be a starting point for users who want to apply the Green River Model to a particular management issue. Typically, the investigator wants to understand how the river regime, including the yields to existing or junior water rights, would change under a new use or different operation(s). The change needs to be quantified relative to how the river would look today absent the new use or different operation(s), which may be quite different from the historical record. The Baseline data set provides a basis against which to compare future scenarios. Users may opt to modify the Baseline data set for their own interpretation of current or near-future conditions. For instance, they may want to look at the effect of conditional water rights on available flow. The following detailed, file-by-file description is intended to provide enough detail so that this can be done with confidence. A general guide to which files need to be modified and what DMIs to use to make those changes is included in Table 3.8.

This section is divided into several subsections:

- Section 3.1 describes the response file, which lists names of the rest of the data files included in the data set. The section tells briefly what is contained in each of the named files, so refer to it if you need to know where to find specific information.
- Section 3.2 describes the control file, which sets execution parameters for the run.
- Section 3.3 includes files that define the river system. These files represent the model network and baseflow hydrology.

- Section 3.4 includes files that define characteristics of the diversion structures in the model. These files include the physical characteristics, irrigation parameters, river headgate demands, water rights, and return flow disposition.
- Section 3.5 includes files that define characteristics of the reservoir structures in the model. These files include the physical characteristics, operational target contents, evaporation parameters, and storage rights.
- Section 3.6 includes files that define characteristics of instream flow structures in the model. These files include the locations, demands, and water rights.
- Section 3.7 describes the characteristics of plan structures in the model. These files include the type, efficiency, initial storage amounts for reservoir reuse plans associated with reservoir structures, and consumptive use factors for diversion of changed water rights. The plan structures in the Green River Model work with operating rules.
- Section 3.8 describes the operating rights file, which specifies operations other than simple diversions, on-channel reservoir storage, and instream flow requirements. For example, the file specifies rules for diversions by exchange, diversions to off-channel demands, reservoir releases to downstream users, movement of water from one reservoir to another, and operations with changed water rights and reusable supplies.
- Section 3.9 describes the irrigation files, which specify parameters used during simulation to compute on-farm consumptive use and return flow volumes related to a given month's diversion
- Section 3.10 highlights the DMI commands files used to make changes to Baseline data set input files.

Note that all structures and rights included in the input files can be individually turned On or Off. This flexibility allows ease of changing some of the input files for model runs. For example, a run can be made with the Church Reservoir and associated operating rules On or Off, and so on, to develop a suite of simulation results for comparison.

## 3.1 RESPONSE FILE (\*.RSP)

The response file, green.rsp, is created by hand using a text editor, and lists other files in the data set. StateMod reads the response file first, which identifies what files to open to retrieve the remainder of the input data.

#### **For Baseline Simulation**

The listing below shows the file names in green.rsp, describes contents of each file, and shows the subsection of this chapter where the file is described in more detail.

File Name	Description	Reference
green.ctl	Control file – Specifies execution parameters, such as run title, modeling period, and options switches.	Section 3.2
green.rin	River Network file – Lists every model node and specifies connectivity (i.e., upstream to downstream order) of network.	Section 3.3.1
green.ris	River Station file – Lists model nodes, both gaged and ungaged, where hydrologic inflow enters the system.	Section 3.3.2
green.xbm	Baseflow file – Monthly time series of streamflows at modeled gages, and tributary inflow nodes.	Section 3.3.3
green.dds	Direct Diversion Station file – Contains parameters for each diversion structure in the model, such as diversion capacity, return flow characteristics, and irrigated acreage served.	Section 3.3.1
greenB.ddm	Direct Diversion Monthly Demand file – Monthly time series of headgate demands for each direct diversion structure.	Section 3.3.2
green.ddr	Direct Diversion Rights file – Lists water rights for diversion structures.	Section 3.3.3
green.urm	Return Flow Monthly Delay Tables file – Contains monthly return flow patterns that indicate how much of the return flow accruing from diversions in one month reach the stream in each of the subsequent months, until the return flow amount is exhausted.	Section 3.3.4
green.res	Reservoir Station file – Contains parameters for each reservoir structure in the model, such as volume, area-capacity-seepage table, and some administration parameters.	Section 3.5.1
greenB.tam	Reservoir Target file – Monthly time series of maximum and minimum targets for each reservoir. A reservoir may not store above its maximum target, and may not release below the minimum target.	Section 3.5.2
green.eva	Net Evaporation file – Lists monthly rates for net evaporation from free water surface areas.	Section 3.5.3

File Name	Description	Reference
green.rer	Reservoir Rights file – Lists storage rights for reservoir structures.	Section 3.5.4
green.ifs	Instream Flow Station file – Lists instream flow reaches and instream flow points.	Section 3.6.1
green.ifa	Instream Flow Demand file – Contains one set of monthly demands for each instream flow structure. Typically equal to decreed monthly instream flow rates.	Section 3.6.2
green.ifr	Instream Flow Rights file – Lists instream flow rights for instream flow structures.	Section 3.6.3
greenB.opr	Operating Rights file – Specifies various operations that are more complex than a direct diversion or an on-channel storage right. Operating rules specify, for example, a reservoir release for delivery to a downstream diversion point, a reservoir release to allow diversion by exchange at an upstream diversion point, or a direct diversion to fill a reservoir via a feeder ditch.	Section 3.7.1
		Section 3.7.2

## 3.2 CONTROL FILE (\*.CTL)

The control file, green.ctl, is created by hand using a text editor. It contains execution parameters for the model run, including the starting year and ending year for the simulation, the number of entries in certain files, conversion factors, and operational switches. Many of the switches relate to either debugging output, or to integrated simulation of ground water and surface water supply sources. Control file switches are specifically described in the StateMod documentation. The simulation period parameters (starting year and ending year) are the control file variables that users most typically adjust.

#### 3.3 RIVER SYSTEM FILES

#### 3.3.1 RIVER NETWORK FILE (\*.RIN)

The river network file, green.rin, is created with StateDMI from the graphical network representation file (green.net) created with the StateDMI Network interface. The river network file describes the location and connectivity of each node in the model. Specifically, it is a list of each structure identification number (ID) and name, along with the ID of the next structure downstream. It is an inherent characteristic of the network

that, with the exception of the downstream terminal node, each node has exactly one downstream node.

Figure 2.2 in Section 2.2 illustrates the model network, which starts below New Fork Lake (ID 09193000) and at the instream flow reach above Warren Bridge (ID 110006F). The last node represented in the model network is the Green River near Green River stream gage (ID 09217000).

River gage nodes are labeled with United States Geological Survey (USGS) stream gaging station numbers (e.g., 09217000). In general, diversion structure identification numbers are seven digits long, and are composed of Water District number followed by the three- or four-digit structure IDs originally developed in the Basin Plan Model. Any missing digits are filled with zero to make the structure ID seven digits long. Reservoir structures are assigned alphabetic names. Instream flow structures, representing instream flow water rights, are identified by the Permit number for the upstream point of the reach (e.g., 110006F). A "\_Dwn" is added to the Permit number to represent the location of the bottom of the reach (e.g., 110006F\_Dwn). Table 3.1 shows how many nodes of each type are in the Green River Model.

KIVCI INCLIVULK EJICHICHUS			
Туре	Number		
	73		
Diversion	, -		
Instream Flow	11		
Reservoirs	9		
Stream Gages	23		
"Other" Nodes	10		
Total	126		

Table 3.1River Network Elements

Nodes at bottom of instream flow reaches are "Other" nodes

#### 3.3.2 RIVER STATION FILE (\*.RIS)

The river station file, green.ris, is created with StateDMI and lists the baseflow nodes in the model network, both gaged and ungaged. There are 22 hydrologic inflows in the

model and 14 of these are ungaged baseflow locations. The inflow nodes are the discrete locations where streamflow is added to the modeled system, and include inflows at the top of the model network and tributary inflows.

There are 15 additional stream gages within the model network that do not bring water into the system (e.g., North Piney Creek near Mason, ID 09205500). Some of these internal gages are used to develop estimates of inflows at the top of tributaries. The inflow nodes and the 15 internal gages result in 23 total stream gage nodes in the model study area.

## 3.3.3 BASEFLOW FILE (\*.XBM)

As discussed in Section 2.7, historical streamflows are used as baseflows in the Green River Model upon which the Baseline data set and other future simulations are simulated. Therefore the baseflow file, green.xbm, uses some of the same historical data included in the historical streamflow file, green.rih. The historical streamflow file is created with TSTool and contains historical gage records from 1971 through 2011 for inflow nodes (noted with asterisks in Table 3.2). The streamflows are based on various data sources, primarily from USGS stream gage records taken directly from the USGS website, and from user-input values.

Most gages have days, months, or years missing within the available period of record. As footnoted in Table 3.2, some inflows and other missing records are filled from other sources in the baseflow file.

The historical streamflow file also includes the historical record of 15 gages located within the model network that do not represent inflows the system. The historical streamflows for the 15 intervening gages are used for comparison to simulated output as part of the historical simulation efforts and in future scenario model runs. Table 3.2 lists the 8 inflow nodes and 15 intervening stream gages used, their available periods of record, and the average annual flows over the period of record for the Green River Model (Jan 1971 through Dec 2011).

 Table 3.2

 Historical Average Annual Flows for Modeled Streamflow Nodes (ac-ft/yr)

	~		Available Period	Historical Flow	
#	Gage ID	Name	of Record (POR)	POR	1971-2011 **
1	09188500	Green River at Warren Bridge	Oct 1931 - Sep 1992;	358,793	350,698

			Available Period	Histor	rical Flow
#	Gage ID	Name	of Record (POR)	POR	1971-2011 **
			Oct 1993 - Oct 2011		
2	09189000	Beaver Creek near Daniel	Oct 1938 - Sep 1954	24,338	
3	09190000	Horse Creek near Daniel	Oct 1931 - Sep 1954; Oct 1982 - Sep 1985	48,814	76,156
4	09191500	Cottonwood Creek near Daniel	Oct 1938 - Sep 1943	24,053	
5 *	09193000	New Fork River below New Fork Lake	Sep 1939 - Oct 1971; Apr 1972 - Sep 1972; Jun-Sep 2009-2011	36,976	
6	09198000	Pine Creek at Pinedale	Jan 1904 - Sep 1904; Oct 1915 - Sep 1954	96,141	
7 *	09198500	Pole Creek below Half Moon Lake	Oct 1938 - Sep 1971	78,216	
8 *	09199500	Fall Creek near Pinedale	Oct 1938 - Sep 1971	28,513	
9	09201000	New Fork River near Boulder	Oct 1914 - Sep 1969	283,214	
10 *	09202000	Boulder Creek below Boulder Lake	Nov 1938 - Oct 1971; May 1972 - Sep 1973	139,145	
11 *	09203000	East Fork New Fork near Big Sandy	Oct 1938 - Sep 1992	65,853	67,100
12 *	09204000	Silver Creek near Big Sandy	Oct 1938 - Sep 1971	31,635	
13	09205000	New Fork R near Big Piney	Sept 1954 - Oct 2011	516,210	522,003
14	09205500	North Piney Creek near Mason	Oct 1932 - Oct 1971; May 1972 - Sep 1972	40,406	
15	09206000	Middle Piney Creek below South Fork	Aug 1939-Sep 1940; Oct 1941 - Sep 1954	22,377	
16	09207500	South Piney Ck near Big Piney	Oct 1938 - Nov 1942	28,592	
17	09208500	La Barge Creek near Viola	Oct 1940 - Sep 1949	65,176	

			Available Period	Histor	rical Flow
#	Gage ID	Name	of Record (POR)	POR	1971-2011 **
18	09209400	Green River near La Barge	Oct 1963 - Oct 2011	1,119,871	1,106,786
19 *	09210500	Fontenelle Creek near Herschler Ranch	Oct 1951 - Oct 2011	50,738	52,223
20	09211200	Green River below Fontenelle Reservoir	Dec 1963 - Oct 2011	1,129,351	1,118,572
21 *	09216050	Big Sandy River at Gasson Bridge	Jul 1972 - Sep 2006	49,753	49,753
22 *	09216562	Bitter Creek and Salt Wells	Jun 1976 - Oct 1981	5,526	5,526
23	09217000	Green River near Green River	Oct 1951 - Oct 2011	1,087,318	1,090,793

\* Represent inflows to model study area \*\* Averages represent years when gage active over Jan 1950-Ded 2011

#### **3.4 DIVERSION FILES**

#### 3.3.1 DIRECT DIVERSION STATION FILE (\*.DDS)

The direct diversion station file, green.dds, is created with StateDMI and describes the physical properties of each diversion node represented in the Green River Model. Table 3.3 is a summary of the diversion station file contents, including each structure's diversion capacity, measured and permitted acreage, and average annual system efficiency. The average annual headgate demand in Table 3.3 is summarized from data in the diversion demand file (greenB.ddm) rather than the diversion station file, but it is included here as an important characteristic of each diversion station. Note in addition to the tabulated parameters, the \*.dds file also specifies return flow information. Table 3.3 identifies municipal and industrial structures in the table notes.

Generally, the diversion capacity for most structures is unknown and is set to 1,000 cfs by StateDMI. This number is significantly large so as not to limit simulated diversions. Return flow locations are specified to StateDMI in a hand-edited file, green.rtn, or assigned using Set commands in StateDMI. The return flow locations and distribution are based on the physical location of irrigated lands. StateCU is used to compute monthly system efficiencies for explicit irrigation structures from historical diversions and historical crop irrigation requirements, and StateDMI writes the calculated efficiencies to the final \*.dds file. StateCU also assigns efficiencies to aggregate irrigation structures based on efficiencies of nearby explicit structures.

For non-irrigation structures, monthly efficiencies are specified by the user as input to Baseline data set.

## Key Structures

Key diversion structures are those modeled explicitly. The node associated with a key structure represents that single structure. The majority of the diversion structures in the study area are used for irrigation. Structures diverting for non-irrigation use are noted in Table 3.3 and include municipal and industrial structures.

Return flow parameters in the diversion station file specify the nodes at which return flows will re-enter the stream, and divide the returns among several locations, as appropriate. The locations were developed in previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model).

Direct Flow Diversion Structure Summary						
#	Model ID	Name	Capacity (cfs)	Irrigated Acreage	Average System Efficiency (percent)	Average Annual Demand (ac-ft)
1	402006	Between Green River nr L	1,000	59	49	276
2	402104	Below Fontenelle Creek n	1,000	2,441	49	11,409
3	4022051	Exxon Shute Creek	1,000	0	100	69
4	402206 <sup>2</sup>	Seedskadee National Wild	1,000	0	100	0
5	402402 <sup>1</sup>	FMC-Westvaco / FMC-Grang	1,000	0	100	16,505
6	402404 <sup>1</sup>	OCI	1,000	0	100	2,886
7	402406 <sup>1</sup>	General Chemical/Church	1,000	0	100	5,911
8	402408 <sup>1</sup>	Rock Springs/Green River	1,000	0	100	34,001
9	501804	AGG Gr R Dry Pny/Lbrg Cr	1,000	664	49	3,104
10	501806 <sup>1</sup>	Town of Labarge	1,000	0	10	120
11	501902	AGG LaBarge Cr I&D	1,000	778	49	3,636
12	501903	Anderson Howard Ditch	1,000	2,424	44	16,828
13	501906	AGG Blw Vla/abv LBrg #2D	1,000	3,519	49	16,447
14	501908	LaBarge No 2 Ditch	1,000	772	48	4,176
15	502002 <sup>3</sup>	AGG Gr R Lbrg 2 Lbrg G	1,000	0	0	0
16	700804	AGG WF NF abv Willow Cr	1,000	2,413	49	56,673
17	700806	AGG Willow Creek	1,000	4,439	49	20,267

Table 3.3Direct Flow Diversion Structure Summary

#	Model ID	Name	Capacity (cfs)	Irrigated Acreage	Average System Efficiency (percent)	Average Annual Demand (ac-ft)
18	700808	AGG WF NF R Wlw/Dck Cr	1,000	2,565	49	11,711
19	700810	AGG WF NF R Dck/Pine Cr	1,000	370	49	1,690
20	700902 <sup>3</sup>	AGG Pine Creek	1,000	0	0	0
21	700903 <sup>1</sup>	Town of Pinedale	1,000	0	10	689
22	700904	Fremont Ditch	1,000	519	46	3,132
23	700906	Highland Canal	1,000	5,848	50	26,440
24	700908 <sup>3</sup>	AGG Pine Cr blw Hlnd Cnl	1,000	0	0	0
25	700910	AGG abv P Cr at Pndl g	1,000	322	49	1,470
26	700912 <sup>3</sup>	AGG WF NF R Pine/Pole Cr	1,000	0	0	0
27	701004	AGG Pole Cr div abv F Cr	1,000	2,108	49	9,625
28	701008	AGG Fall Creek div	1,000	1,427	49	6,516
29	701010	AGG Pole Cr div	1,000	564	49	2,576
30	701012	AGG WF NF R Pole/Bould	1,000	2,231	49	10,186
31	701104	AGG Boulder Creek div	1,000	7,264	49	33,165
32	701106	AGG WFNF R B Cr to EFNF	1,000	407	49	1,858
33	701204	Overland Ditch	1,000	1,288	50	5,925
34	701206	East Fork Ditch	1,000	1,007	51	4,105
35	701208	AGG East Fork	1,000	3,215	49	14,679

#	Model ID	Name	Capacity (cfs)	Irrigated Acreage	Average System Efficiency (percent)	Average Annual Demand (ac-ft)
36	701210	Gilligan Iven Ditch	1,000	630	50	2,645
37	701212	Tibbals Ditch	1,000	1,113	50	4,883
38	701213 <sup>3</sup>	AGG EF Muddy/Silver Cr	1,000	0	0	0
39	701216	AGG Silver Creek div	1,000	1,194	49	5,452
40	701218	AGG EF NF div blw Slv Cr	1,000	55	49	252
41	701302	AGG NF div blw E/W F	1,000	1,270	49	5,798
42	1000502	AGG G R b/w Horse/Cwd Cr	1,000	6,442	49	28,688
43	1000602	AGG N Cottnwd Cr/trb I&D	1,000	3,937	49	17,532
44	1000604	AGG S Cottnwd Cr/trb I&D	1,000	9,212	49	41,022
45	1000610	AGG Cwd Cr blw Daniel	1,000	7,064	49	31,457
46	1000702	AGG Gr R 2 Cwd & Cr NF R	1,000	2,895	49	12,892
47	1001402	AGG Gr R b/w NF R & P Cr	1,000	2,667	49	11,876
48	1001502	AGG U N Piney Cr I&D	1,000	1,212	49	5,397
49	1001506	N Piney Canal	1,000	2,965	54	10,175
50	1001508	AGG B/w N Pny Cnl&Msmn	1,000	5,235	49	23,312
51	1001510	Musselman Ditch	1,000	740	54	2,662
52	1001512	AGG Below Musselman	1,000	7,010	49	31,217
53	1001604	AGG blw Mid Piney gage	1,000	8,245	49	36,717

#	Model ID	Name	Capacity (cfs)	Irrigated Acreage	Average System Efficiency (percent)	Average Annual Demand (ac-ft)
54	1001702	AGG U S Piney Cr	1,000	2,654	49	11,819
55	1001704	South Piney Ditch	1,000	1,440	52	5,849
56	1001706	AGG b/w S Piney/Yan D	1,000	1,420	49	6,324
57	1001708	Homestake Ditch	1,000	1,242	51	5,237
58	1001710	Yankee Ditch	1,000	615	46	3,341
59	1001712	Reardon Ditch	1,000	1,281	50	5,762
60	1001714	AGG blw Reardon	1,000	1,529	49	6,809
61	1100104	AGG div ab Canyon D	1,000	3,151	49	13,621
62	1100106	Canyon Ditch	1,000	2,332	49	10,081
63	1100108	AGG Green R b/w Canyon D	1,000	731	49	3,160
64	1100112	AGG Green R War Br/B Cr	1,000	1,539	49	6,653
65	1100202	AGG Mid/N Beaver Cr I&D	1,000	3,099	49	13,801
66	1100204	AGG S Beaver Cr I&D	1,000	5,137	49	22,876
67	1100206	AGG Beaver Cr mainstem	1,000	136	49	606
68	1100302	AGG Gr R b/w Bvr/Hrse Cr	1,000	9,868	49	42,658
69	1100402	AGG N Fk Horse Cr I&D	1,000	6,756	49	30,086
70	1100404	AGG S Fk Horse Cr I&D	1,000	2,270	49	10,109
71	1100408	AGG Horse Cr N/S F to Dl	1,000	2,550	49	11,356

#	Model ID	Name	Capacity (cfs)	Irrigated Acreage	Average System Efficiency (percent)	Average Annual Demand (ac-ft)
72	1100412	Blw Horse Crk nr Daniel	1,000	3,285	49	14,629
		TOTALS		159,565		822,829

1) Municipal/Industrial Diversion 2) Placeholder for Refuge demands 3) Placeholder for Irrigation demands

### 3.3.2 DIRECT DIVERSION MONTHLY DEMAND FILE (\*.DDM)

The monthly demand file, greenB.ddm, is created with StateDMI and contains time series of monthly demand for each diversion structure in the model. Demand is the amount of water the structure "wants" to divert during simulation. Thus, demand differs from historical diversions, as it represents what the structure would divert in order to get a full water supply. Table 3.3 lists average annual demand for each diversion structure.

Irrigation demand is computed as the crop irrigation water requirement divided by average monthly efficiency for the structure, as described in Section 2.9.1 and Section 2.9. Monthly efficiency is the average system efficiency (combined conveyance and application) estimated over the period 1971 through 2011, based on the irrigation practice associated with the structure.

#### 3.3.3 DIRECT DIVERSION RIGHTS FILE (\*.DDR)

The direct diversion rights file, green.ddr, is created with StateDMI and contains water rights information for each diversion structure in the model. The information in the \*.ddr file is used during simulation to allocate water in the right sequence of priorities and to limit the allocation by the decreed amount. Direct flow rights, including second cfs rights, are assigned using Set commands in StateDMI.

In addition, any structures that historically diverted more than their decreed water rights are assigned a "free river right", with a junior administration number of 9000.0000 and a decreed amount of 999 cfs. The free river rights allow structures to divert more than their decreed water rights under free river conditions; provided their demand is not satisfied and water is legally available.

All diversion rights are set On in the Baseline data set.

### 3.3.4 RETURN FLOW MONTHLY DELAY TABLES FILE (\*.URM)

The return flow delay table file, green.urm, is created by hand using a text editor and describes the estimated re-entry of return flows into the river system. The irrigation return patterns were developed for previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model). None of these patterns were changed for this modeling effort.

Four different return flow patterns are used in the Green River Model, as summarized in Table 3.4. One pattern represents instantaneous (within the same day or month as the diversion) returns and is applied to municipal inside use and non-consumptive diversions. Three other patterns are generalized irrigation return patterns, applicable to irrigated crops relatively "close" and "further" from the stream. These return patterns were developed for previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model). All three patterns direct 100 percent of the returns to the river system within four months of the month of diversion, with the first month of returns ranging from about 45 percent to 65 percent.

Month	Pattern 1	Pattern 2	Pattern 3	Pattern 110
1	100	63	64	45
2	0	15	13	36
3	0	13	13	12
4	0	9	10	7
Total	100	100	100	100

 Table 3.4

 Percent of Return Flow Entering Stream in Months Following Diversion (percent)

Month 1 is the month of diversion

#### 3.5 **RESERVOIR FILES**

#### 3.5.1 RESERVOIR STATION FILE (\*.RES)

The reservoir station file, green.res, is created with StateDMI and describes physical properties, and some administrative characteristics, of each reservoir node represented in the Green River Model. All of the information is provided in the commands file using Set commands. Three explicit reservoirs and six projected reservoirs are included in the model as placeholders for future modeling efforts.

The reservoirs included in the Green River Model are listed in Table 3.5 with modeled storage capacity and number of accounts or pools. Except as noted below, all reservoirs are modeled with one active account.

#	Model ID	Name	Capacity (ac-ft)	# of Accounts
1	0701201	Church Reservoir	1,700	1
2	1001505	McNinch Reservoir	5,600	1

Table 3.5Reservoir Structures

#	Model ID	Name	Capacity (ac-ft)	# of Accounts
3	1001603	Sand Hill Reservoir	14,100	1
4	CowGulchRes	Cow Gulch Reservoir	13,330	1
5	FontenelleRe <sup>1</sup>	Fontenelle Reservoir	366,000	2
6	HorsePastRes	Horse Pasture Reservoir	7,670	1
7	MickelsonRes	Mickelson Reservoir	26,300	1
8	MidPineyLk <sup>1</sup>	Middle Piney Lake	4,201	1
9	WillowLk <sup>1</sup>	Willow Lake	23,190	1

1) Existing reservoir

## Key Reservoirs

Parameters related to the physical attributes of key reservoirs include inactive storage where applicable, total storage, area-capacity-seepage data, applicable evaporation/precipitation stations, and initial reservoir contents. Reservoirs are represented as being on-line throughout the study period, at their current capacities. Initial reservoir contents are set to 200,000 acre-feet for Fontenelle Reservoir based on information from previous StateMod modeling efforts. Initial reservoir contents for Middle Piney Lake and Willow Lake are set to capacity since they are typically operated for recreational purposes.

Administrative information includes reservoir account ownership, administrative fill date, and evaporation charge specifications. This information, along with area-capacity-seepage information, is obtained from interviews with the Division Engineer, local water commissioners, and the owner/operator of the individual reservoirs.

# 3.5.2 RESERVOIR TARGET FILE (\*.TAM)

The reservoir target file, greenB.tam, is created with TSTool and contains minimum and maximum target storage limits for reservoirs in the reservoir station file, green.res. The reservoir may not store more than the maximum target, or release to the extent that storage falls below the minimum target. In the Baseline data set, the minimum targets for

all reservoirs, except Fontenelle Reservoir, are set to zero and the maximum targets are set to capacity.

Storage targets for Fontenelle Reservoir were set to operational flood control targets according to rule curves provided by the Bureau of Reclamation.

## 3.5.3 NET EVAPORATION FILE (\*.EVA)

The net evaporation file, green.eva, is created by hand with a text editor and contains monthly average net evaporation data (12 values) that are applied in every year of the simulation. The annual net reservoir evaporation was developed in previous hydrologic modeling efforts (specifically, the Green River Basin Plan spreadsheet model).

The net monthly free water surface evaporation estimates used in the Green River Model are listed in Table 3.6.

Net Reservoir Evaporation (feet)		
Jan	0.074	
Feb	0.064	
Mar	0.104	
Apr	0.222	
May	0.307	
Jun	0.372	
Jul	0.528	
Aug	0.485	
Sep	0.320	
Oct	0.213	
Nov	0.105	
Dec	0.067	
Total	2.860	

Table 3.6Net Reservoir Evaporation (feet)

#### 3.5.4 RESERVOIR RIGHTS FILE (\*.RER)

The reservoir rights file, green.rer, is created with StateDMI and contains storage rights associated with each reservoir in the reservoir station file. Specifically, the parameters for each storage right include the reservoir, administration number, decreed amount, the account(s) to which exercise of the right accrues, the administrative date, and whether the right is used as a first or second fill storage right and if it is limited to the one fill rule.

All reservoir rights in the Green River Model are set to an October through September water year and are limited to one fill. The On/Off switch in the Set commands should be toggled, as needed, for future model scenarios.

#### 3.6 INSTREAM FLOW FILES

## 3.6.1 INSTREAM FLOW STATION FILE (\*.IFS)

The instream flow station file, green.ifs, is created with StateDMI and contains information related to instream flow structures in the Green River Model. An instream flow reach, with both an instream flow station and downstream terminus node, is only necessary when the reach extends over other modeled structures. An instream flow point is specified at a single location if the modeled instream flows do not need to be represented over a defined reach.

One of the eleven instream flow points is represented as a single point – the Fontenelle Reservoir bypass flow. The remaining instream flow reaches are included to permitted and pending instream flow rights in the basin.

Table 3.7 in Section 3.6.3 lists the instream flow stations included in the Green River Model, along with their location, maximum demand, and modeled water right amount.

## 3.6.2 INSTREAM FLOW DEMAND FILE (\*.IFA)

The instream flow demand file, green.ifa, is created with StateDMI. Twelve monthly instream flow demands are input for each year of the simulation.

## 3.6.3 INSTREAM FLOW RIGHTS FILE (\*.IFR)

The instream flow rights file, green.ifr, is created with StateDMI. Water rights for each instream flow station included in the Green River Model are contained in the instream flow rights file, as summarized in Table 3.7. Note that the decree represents the maximum demand, which may vary throughout the year.

#	ID	Name	Maximum Demand (cfs)	Decree (cfs)
1	070007F	ISF NR b/w Pine/Pole Ck	135	135
2	070034F	ISF Pine Ck	40	40
3	100028F	ISF South Piney Ck	15	15
4	100029F	ISF La Barge Ck	25	25

Table 3.7Instream Flow Structures

#	ID	Name	Maximum Demand (cfs)	Decree (cfs)
5	100030F	ISF Fish Ck	10	10
6	100035F	ISF North Piney Ck	40	40
7	100036F	ISF Middle Piney Ck	15	15
8	100073F	ISF North Cottonwood Ck	35	35
9	100074F	ISF South Cottonwood Ck	17	17
10	110006F	ISF Green R abv WarrenBr	350	350
11	FontMinRel	Min Release Fontenelle	415	415

## 3.7 OPERATING RIGHTS FILE (\*.OPR)

The operating rights file, greenB.opr, is created by hand with a text editor and specifies operations that are more complicated than a direct diversion or storage in an on-channel reservoir. Each operating right is assigned an administration number consistent with the structures' other rights and operations.

In the Green River Model, three different types of operating rights are used. The rule types are summarized below. Additional information on rule types can be found in the StateMod documentation.

- **Type 1** A release from storage to the stream, for shepherded delivery to a downstream instream flow demand. Typically, the reservoir supply is supplemental, and its release is given an administration number junior to instream flow rights at the destination structure. A release is made only if demand at the instream flow structure is not satisfied after instream flow rights have diverted. The StateMod model does not lag releases from storage to downstream demands nor account for transit losses. Therefore, the amount of simulated reservoir release meets the instream flow demand in the same time step without loss. In the Green River Model, the type 2 operating rule is used to deliver Fontenelle Reservoir water to meet the 415 cfs bypass flow requirement.
- **Type 2** A release from storage to the stream, for shepherded delivery to a downstream diversion or carrier. Typically, the reservoir supply is supplemental, and its release is

given an administration number junior to direct flow rights at the destination structure. A release is made only if demand at the diversion structure is not satisfied after direct flow rights have diverted. The StateMod model does not lag releases from storage to downstream demands nor account for transit losses. Therefore, the amount of simulated reservoir release meets the demand in the same time step without loss. In the Green River Model, the type 2 operating rule is used to deliver Fontenelle Reservoir water to the four industrial demands downstream on the Green River.

• **Type 9** – A release from storage directly to the river to meet a reservoir target. In the Green River Model, the type 9 operating rule is used for reservoirs with forecasting operations (Fontenelle Reservoir).

Note that all operating rules in the input operating rule file can be individually turned On or Off. This flexibility allows ease of changing one or more rules to see the different responses of the river regime and yields to one or more change(s) in operations. In addition, each operating rule can be turned On or Off for each month in the study period. This is done using 12 switches for one operating rule that directs the model to be On (variable set to 1) or Off (variable set to 0) for a specific month for each year of the study period.

## 3.8 MODIFICATION OF BASELINE DATA SET

The discussion of the Baseline data set input files in Section 3 is provides a detailed outline of the information included in the data set necessary to run model simulations. Further information regarding the input data is included in the StateMod documentation.

The results of the Baseline data set presented in Section 4 are the basis against which future model scenarios will be compared. Future scenarios can be developed by modifying the Baseline data set input files to represent the impacts of proposed diversions, reservoirs, water rights and/or changes in operations and management strategies.

Various input files will need to be modified to add the proposed features. Table 3.8 provides an outline of which files need to be changed to edit input data or add features not already represented in the Baseline data set. An important aspect of the StateMod input files is that their genesis is documented in the files themselves, with the DMI command files echoed in the input file header. Further information regarding the input data and use of the DMIs to develop the files is included in Section 2, Section 3, and the particular DMI documentation.

Structure Type	Associated Input Files	Commands Used to Create Input Files <sup>1</sup>
	green.net	Edit network in StateDMI
Streem Cogo	green.rin	green.rin.commands.StateDMI
Stream Gage	green.ris	green.ris.commands.StateDMI
	green.rib	green.rib.commands.TSTool
	green.net	Edit network in StateDMI
	green.rin	green.rin.commands.StateDMI
Diversion Node	green.dds	green.dds.commands.StateDMI and \StateCU\green.rcu simulation and green.ddh.commands.StateDMI and\StateCU\green_2.rcu simulation and greenH.ddm.commands.StateDMI and greenB.ddm.commands.StateDMI
	green.ddr	green.ddr.commands.StateDMI
	greenB.ddm	greenB.ddm.commands.StateDMI
	green.net	Edit network in StateDMI
	green.rin	green.rin.commands.StateDMI
	green.res	green.res.commands.StateDMI
Reservoir Node	green.rer	green.rer.commands.StateDMI
	greenB.tam	greenB.tam.commands.TSTool
	green.eva <sup>2</sup>	Edit evaporation file in text editor

 Table 3.8
 Quick Guide for Modifying StateMod Data Set Input Files

or Nodes (one each for top and bottom or	green.rin	green.rin.commands.StateDMI
reach)	green.ifs	green.ifs.commands.StateDMI
	green.ifr	green.Iifr.commands.StateDMI
	green.ifa	green.ifa.commands.TSTool
Operating Rules	greenB.opr	Edit operating rules file in text editor
	greenB.rsp	Edit response file in text editor
Top-level input files	green.ctl	Edit control file in text editor

Notes: See StateMod documentation for more details on input files and output files.

<sup>1</sup>Warnings and FYIs in \*.log and \*.chk files are always good to check for issues associated with model runs.

<sup>2</sup> green.eva file created only need to be revised if new net evaporation values to be included in existing file.

#### 4. BASELINE DATA SET RESULTS

The Baseline data set simulates current irrigation demands, current non-irrigation demands, current infrastructure and projects, and the current administrative environment, as though they had been in place throughout the modeled period. This section summarizes the state of the river as the Green River Model characterizes it, under these assumptions.

The Baseline data set illustrates an operational scenario of the yields of the various water rights considering demands and supplies of other water users in the basins. The tables and figures at the end of this section illustrate how water supplies and operations modeled to meet Baseline demands impact the river system.

#### 4.1 **BASELINE STREAMFLOWS**

Table 4.1 shows the average annual flow from the Baseline simulation for each gage, based on the entire study period (1971 - 2011). In general, this value is lower than the historical average. Changes to the river regime are expected due to the differences between demands, supplies, and operations in the Historical and Baseline data sets.

The second value in the table is the average annual available flow, as identified by the model. Available flow at a point is water that is not needed to satisfy modeled instream flows or downstream diversion demands with existing perfected water rights; it represents the water that could be diverted by a new water right. The available flow is always less than the total simulated flow.

Temporal variability of the Historical and Baseline simulated flows is illustrated in Figures 4.1 through 4.4 (at the end of this section) for selected gages. Each figure shows two graphs: hydrographs of the historical gage flow, simulated gage flow, and simulated available flow for the 1971 through 2011 period; and average monthly values for the three hydrographs for the entire modeling period.

The hydrographs show Baseline simulated flows consistent with Historical flows for the Green River at Warren Bridge, New Fork River near Big Piney, and Green River near La Barge gages. The available flow is the portion of the physical flow that is available for a junior diversion after all input water rights and demands have been simulated. The available flow is close to the physical flow in most months of the year except for the spring period when farmers are flooding their fields and Fontenelle Reservoir is diverting water to storage. The available flows during dry years are often equal to zero, as illustrated in the figures over the entire study period.

Available flow data in Table 4.1 and Figures 4.1 through 4.4 are a good starting point for identifying favorable locations for yields associated with Thornton's junior gravel pits storage rights for future scenarios.

Table 4.1
Average Simulated and Available Annual Streamflows (1971 – 2011)
Baseline Run (ac-ft/vr)

#	Model ID	Name	Simulated Flow (ac-ft)	Available Flow (ac-ft)
1	09188500	Green River at Warren Bridge	347,993	292,089
2	09189000	Beaver Creek near Daniel	26,524	25,106
3	09190000	Horse Creek near Daniel	37,142	20,166
4	09191500	Cottonwood Creek near Daniel	54,126	26,086
5	09193000	New Fork River blw New Fork Lake	35,704	1,923
6	09198000	Pine Creek at Pinedale	80,238	63,536
7	09198500	Pole Creek below Half Moon Lake	74,764	61,449
8	09199500	Fall Creek near Pinedale	27,190	19,963
9	09201000	New Fork River near Boulder	276,378	255,029
10	09202000	Boulder Creek below Boulder Lake	140,987	103,176
11	09203000	East Fork New Fork near Big Sandy	68,080	41,944
12	09204000	Silver Creek near Big Sandy	36,823	30,172
13	09205000	New Fork R near Big Piney	551,977	499,502
14	09205500	North Piney Creek near Mason	39,496	10,228
15	09206000	Middle Piney Creek below South Fork	16,131	1,179
16	09207500	South Piney Ck near Big Piney	40,767	15,414
17	09208500	La Barge Creek near Viola	71,331	57,882
18	09209400	Green River near La Barge	1,202,673	852,439

#	Model ID	Name	Simulated Flow (ac-ft)	Available Flow (ac-ft)
19	09210500	Fontenelle Creek near Herschler Ranch	53,434	40,132
20	09211200	Green River below Fontenelle Reservoir	1,214,435	1,135,831
21	09216050	Big Sandy River at Gasson Bridge	49,475	49,318
22	09216562	Bitter Creek and Salt Wells	4,711	4,711
23	09217000	Green River near Green River	1,188,010	1,188,010

#### 4.2 BASELINE DEMANDS

The irrigation demands in the Baseline data set (see Table 3.3) are typically greater than Historical since the Baseline demands are set to meet the total crop demand without limits to water supply. Historical demands are estimated equal to historical diversions, which are limited by water supply.

Table 4.2 summarizes the average annual shortage for water years 1971 through 2011, by Water District, including municipal and industrial structures.

Table 4.2Average Annual Demands and Simulated Diversions by Water District (1971 – 2011)Baseline Run (ac-ft/yr)

Water District	Demand	Simulated Diversion	Shortage (Demand – Diversion)	
		Diversion	Volume	Percent
WD 4 – Below Fontenelle Reservoir	71,056	69,337	1,720	2%
WD 5 – Below Piney Creek to Fontenelle Reservoir	44,311	42,238	2,072	5%
WD 7 – New Fork River	229,739	196,994	32,745	14%
WD 10 – Cottonwood Creek to below Piney Creek	298,090	219,606	78,485	26%
WD 11 – Above Cottonwood Creek	179,636	159,564	20,072	11%
Basin Total	822,831	687,739	135,093	16%

Table 4.3 shows the average annual shortages for water years 1971 through 2011 by structure, including the municipal and industrial structures. The Water Districts within the upper reaches of the basin (New Fork – District 7 and Green River above Cottonwood Creek – District 11) have high shortages that are due, in part, to the limited physical supply of water available in the higher altitude portions of the basin. The lower reaches of the basin (Green River below Piney Creek to Fontenelle Reservoir – District 5 and Green River below Fontenelle Reservoir – District 4) have lower shortages that are due, in part, to being in areas that benefit from irrigation return flows and benefit from releases below Fontenelle Reservoir. The Westside tributaries (Green River main stem, including Cottonwood Creek and Piney Creek) have high shortages due, in part, to high demands and limited physical supply of water.

Figures 4.5 through 4.9 (at the end of this section) illustrate the total demands and deliveries to demands for irrigation users in the five Water Districts. Figure 4.10 illustrates the total demands and deliveries to demands for all non-irrigation uses within the basin.

Table 4.3
Average Annual Demands and Simulated Diversions by Structure (1971 – 2011)
Baseline Run (ac-ft/yr)

Model ID	Name	Demand	Diversion	Shortage (Demand – Diversion)	
		2 • • • • • •	211010101	Volume	Percent
0402006	Between Green River nr L	276	276	0	0%
0402104	Below Fontenelle Creek n	11,409	10,312	1,097	10%
04022051	Exxon Shute Creek	69	69	0	0%
0402206 <sup>2</sup>	Seedskadee National Wild	0	0	0	0%
04024021	FMC-Westvaco / FMC-Grang	16,505	15,883	622	4%
04024041	OCI	2,886	2,886	0	0%
04024061	General Chemical/Church	5,911	5,911	0	0%
04024081	Rock Springs/Green River	34,001	34,001	0	0%
0501804	AGG Gr R Dry Pny/Lbrg Cr	3,104	3,104	0	0%
0501806 <sup>1</sup>	Town of Labarge	120	120	0	0%
0501902	AGG LaBarge Cr I&D	3,636	3,455	181	5%
0501903	Anderson Howard Ditch	16,828	15,088	1,740	10%
0501906	AGG Blw Vla/abv LBrg #2D	16,447	16,296	151	1%
0501908	LaBarge No 2 Ditch	4,176	4,175	1	0.02%
0502002 <sup>3</sup>	AGG Gr R Lbrg 2 Lbrg G	0	0	0	0%
0700804	AGG WF NF abv Willow Cr	56,673	30,616	26,057	46%
0700806	AGG Willow Creek	20,267	17,966	2,301	11%
0700808	AGG WF NF R Wlw/Dck Cr	11,711	11,711	0	0%

Model ID	Name	Demand	Diversion	Shortage (Demand – Diversior	
				Volume	Percent
0700810	AGG WF NF R Dck/Pine Cr	1,690	1,690	0	0%
0700902 <sup>3</sup>	AGG Pine Creek	0	0	0	0%
0700903 <sup>1</sup>	Town of Pinedale	689	689	0	0%
0700904	Fremont Ditch	3,132	2,957	175	6%
0700906	Highland Canal	26,440	26,205	235	1%
0700908 <sup>3</sup>	AGG Pine Cr blw Hlnd Cnl	0	0	0	0%
0700910	AGG abv P Cr at Pndl g	1,470	1,448	22	1%
0700912 <sup>3</sup>	AGG WF NF R Pine/Pole Cr	0	0	0	0%
0701004	AGG Pole Cr div abv F Cr	9,625	9,613	12	0.1%
0701008	AGG Fall Creek div	6,516	6,274	242	4%
0701010	AGG Pole Cr div	2,576	2,576	0	0%
0701012	AGG WF NF R Pole/Bould	10,186	10,153	33	0.3%
0701104	AGG Boulder Creek div	33,165	32,477	688	2%
0701106	AGG WFNF R B Cr to EFNF	1,858	1,858	0	0%
0701204	Overland Ditch	5,925	4,676	1,249	21%
0701206	East Fork Ditch	4,105	3,529	576	14%
0701208	AGG East Fork	14,679	13,728	951	6%
0701210	Gilligan Iven Ditch	2,645	2,615	30	1%
0701212	Tibbals Ditch	4,883	4,736	147	3%

Model ID	Name	Demand	Diversion	Short (Demand –	C
				Volume	Percent
0701213 <sup>3</sup>	AGG EF Muddy/Silver Cr	0	0	0	0%
0701216	AGG Silver Creek div	5,452	5,427	25	0.5%
0701218	AGG EF NF div blw Slv Cr	252	252	0	0%
0701302	AGG NF div blw E/W F	5,798	5,798	0	0%
1000502	AGG G R b/w Horse/Cwd Cr	28,688	28,688	0	0%
1000602	AGG N Cottnwd Cr/trb I&D	17,532	15,255	2,277	13%
1000604	AGG S Cottnwd Cr/trb I&D	41,022	28,271	12,751	31%
1000610	AGG Cwd Cr blw Daniel	31,457	27,156	4,301	14%
1000702	AGG Gr R 2 Cwd & Cr NF R	12,892	12,892	0	0%
1001402	AGG Gr R b/w NF R & P Cr	11,876	11,876	0	0%
1001502	AGG U N Piney Cr I&D	5,397	2,863	2,534	47%
1001506	N Piney Canal	10,175	4,603	5,572	55%
1001508	AGG B/w N Pny Cnl&Msmn	23,312	13,560	9,752	42%
1001510	Musselman Ditch	2,662	2,320	342	13%
1001512	AGG Below Musselman	31,217	21,393	9,824	31%
1001604	AGG blw Mid Piney gage	36,717	15,424	21,293	58%
1001702	AGG U S Piney Cr	11,819	7,700	4,119	35%
1001704	South Piney Ditch	5,849	4,735	1,114	19%
1001706	AGG b/w S Piney/Yan D	6,324	5,045	1,279	20%

Model ID	Name	Demand	Diversion	Short (Demand – 1	C
				Volume	Percent
1001708	Homestake Ditch	5,237	4,642	595	11%
1001710	Yankee Ditch	3,341	1,898	1,443	43%
1001712	Reardon Ditch	5,762	4,818	944	16%
1001714	AGG blw Reardon	6,809	6,466	343	5%
1100104	AGG div ab Canyon D	13,621	13,621	0	0%
1100106	Canyon Ditch	10,081	10,036	45	0.4%
1100108	AGG Green R b/w Canyon D	3,160	3,124	36	1%
1100112	AGG Green R War Br/B Cr	6,653	6,653	0	0%
1100202	AGG Mid/N Beaver Cr I&D	13,801	12,313	1,488	11%
1100204	AGG S Beaver Cr I&D	22,876	19,323	3,553	16%
1100206	AGG Beaver Cr mainstem	606	606	0	0%
1100302	AGG Gr R b/w Bvr/Hrse Cr	42,658	42,658	0	0%
1100402	AGG N Fk Horse Cr I&D	30,086	20,450	9,636	32%
1100404	AGG S Fk Horse Cr I&D	10,109	8,497	1,612	16%
1100408	AGG Horse Cr N/S F to Dl	11,356	7,720	3,636	32%
1100412	Blw Horse Crk nr Daniel	14,629	14,563	66	0.5%
	TOTALS	822,829	687,738	135,091	16%

1) Municipal/Industrial Diversion

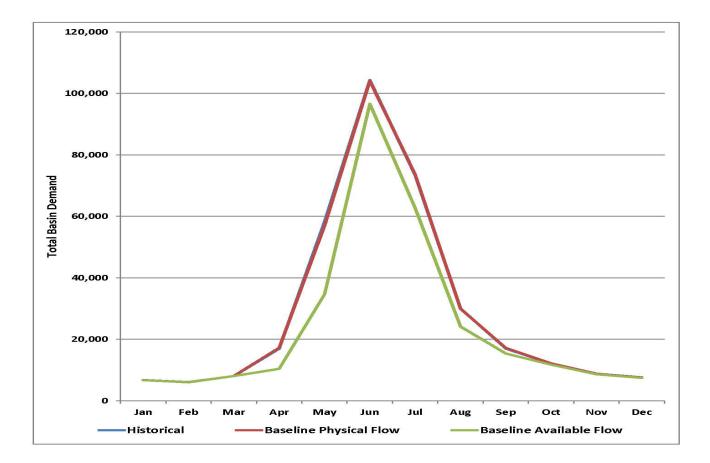
2) Placeholder for Refuge demands

3) Placeholder for Irrigation demands

#### 4.3 BASELINE RESERVOIR END-OF-MONTH CONTENTS

The Baseline data set simulates reservoir operations with targets to fill to capacity in every time step. This approach allows the model to represent the limits on reservoir storage from available flow and resultant rule-based operational releases. Variability of the Baseline simulated reservoir end-of-month contents to the capacity targets is illustrated in Figures 4.10 through 4.12 for the three existing modeled reservoirs (at the end of this section).

Fontenelle Reservoir operations are typical of operations of flood control reservoirs that maintain vacant space during the spring runoff to be sure to be able to store during significant storm events. There are no operating rules input for Willow Lake and Middle Piney Lake. Therefore, these reservoirs maintain full capacity with evaporation losses refilled each year.



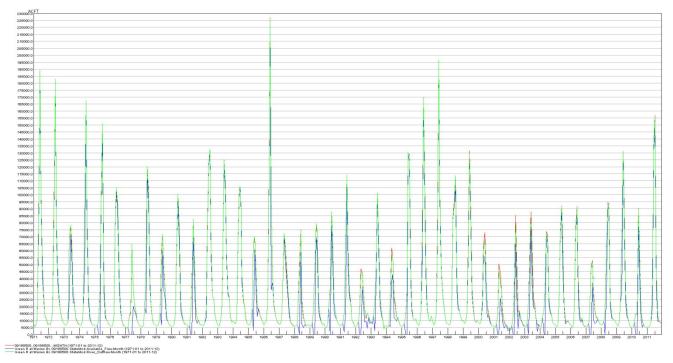
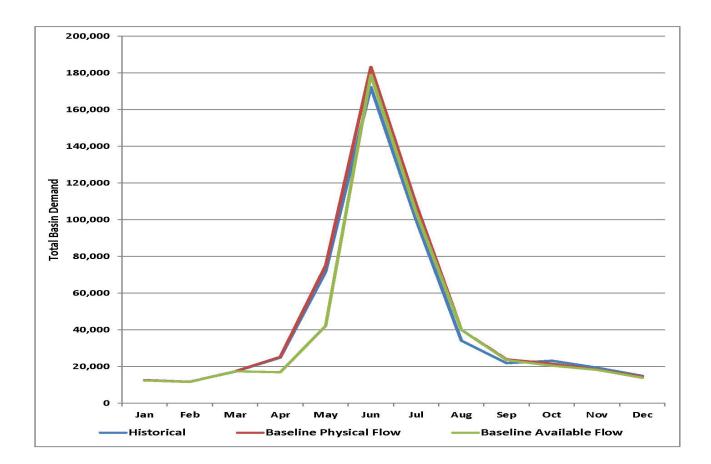


Figure 4.1 Monthly Baseline Comparison – Green River above Warren Bridge



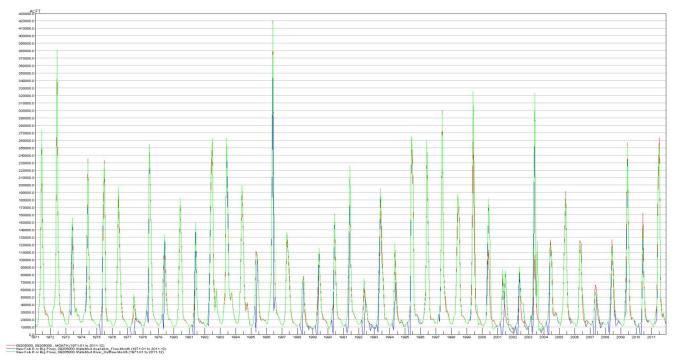
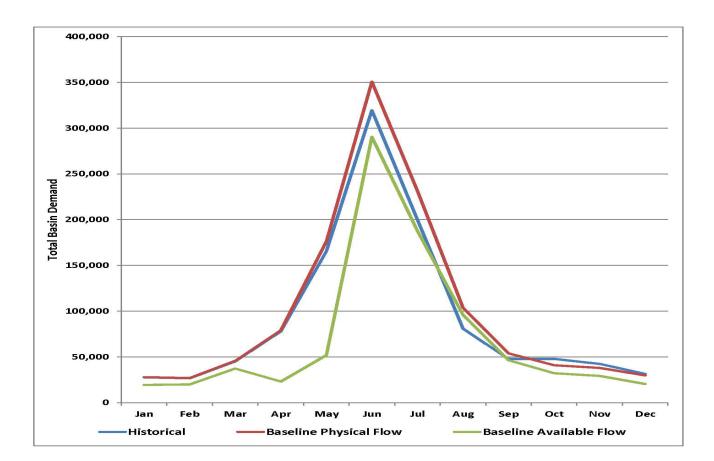


Figure 4.2 Monthly Baseline Comparison – New Fork River near Big Piney



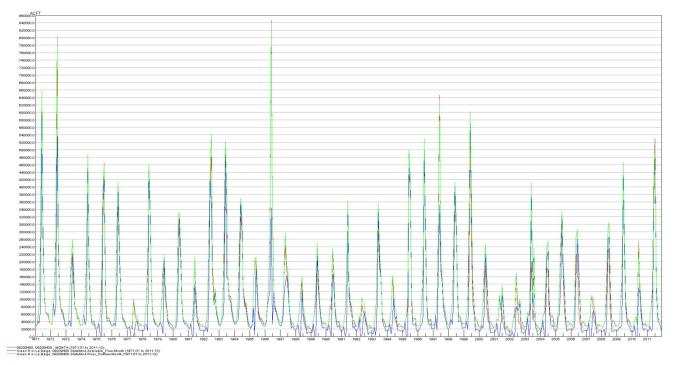
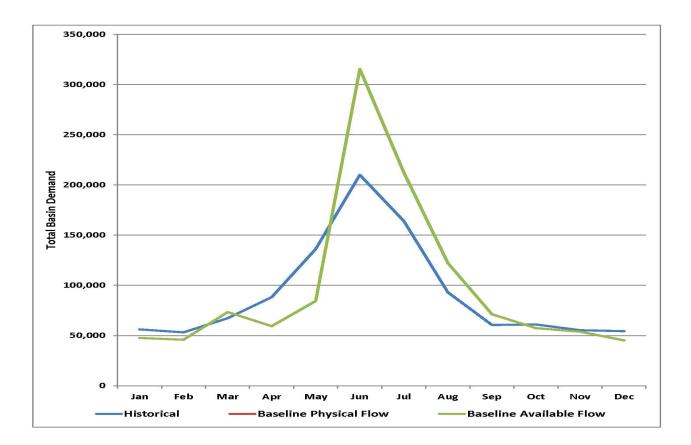


Figure 4.3 Monthly Baseline Comparison – Green River near La Barge



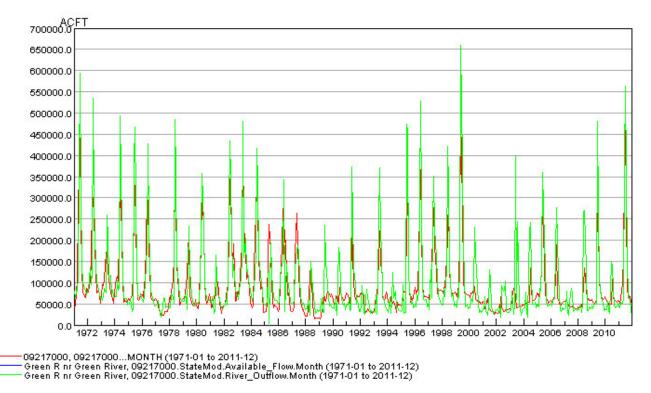


Figure 4.4 Monthly Baseline Comparison – Green River near Green River

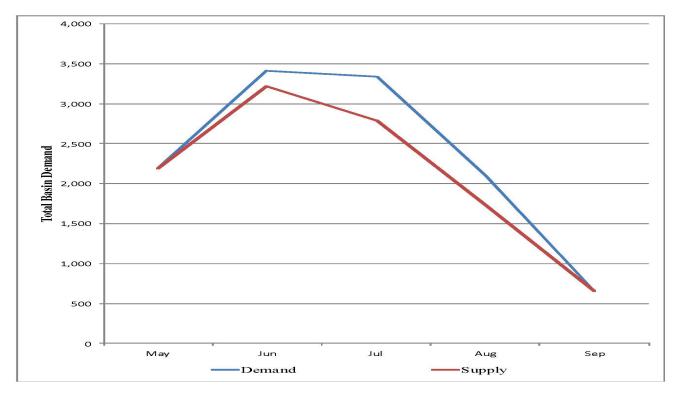


Figure 4.5 Irrigation Demand and Supply – Green River below Fontenelle Reservoir (District 4)

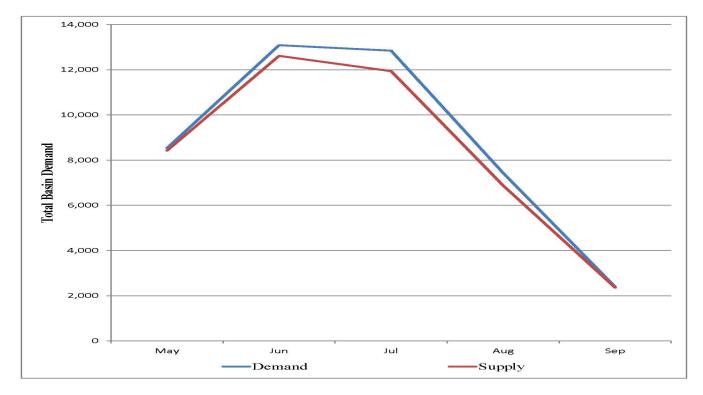


Figure 4.6 Irrigation Demand and Supply – Green River below Piney Creek to Fontenelle Reservoir (District 5)

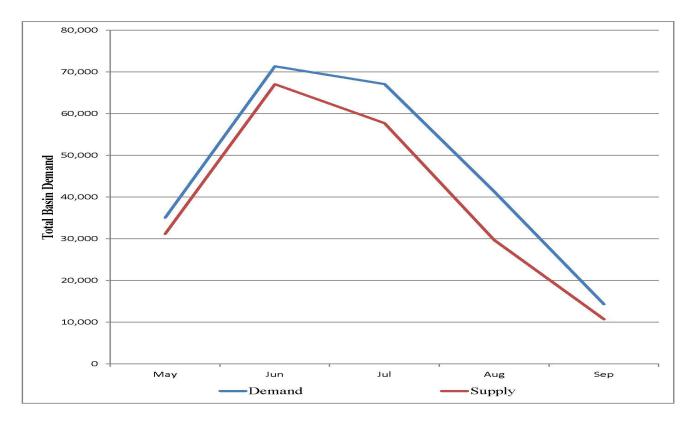


Figure 4.7 Irrigation Demand and Supply – New Fork River Basin (District 7)

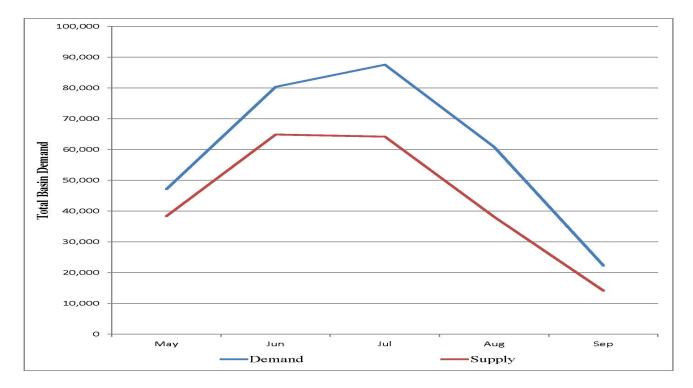


Figure 4.8 Irrigation Demand and Supply – Green River above Cottonwood Creek to below Piney Creek (District 10)

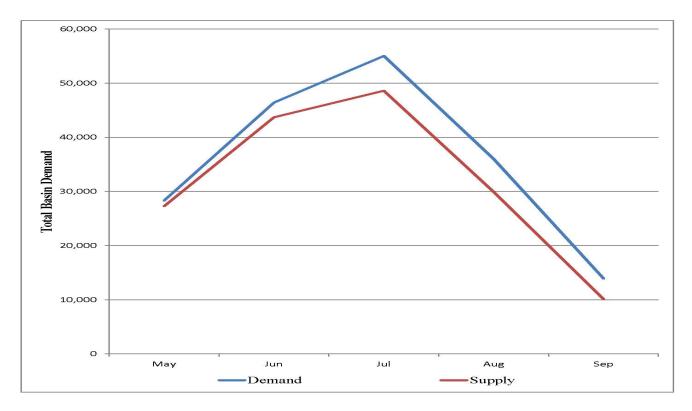


Figure 4.9 Irrigation Demands and Supply – Green River above Cottonwood Creek (District 11)

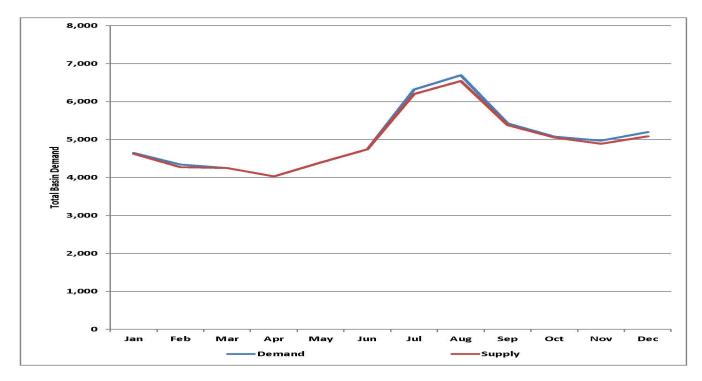


Figure 4.10 Municipal and Industrial Demand and Supply – Green River Basin

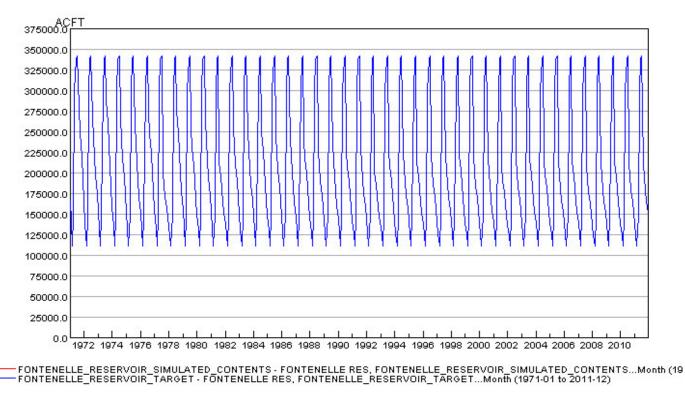
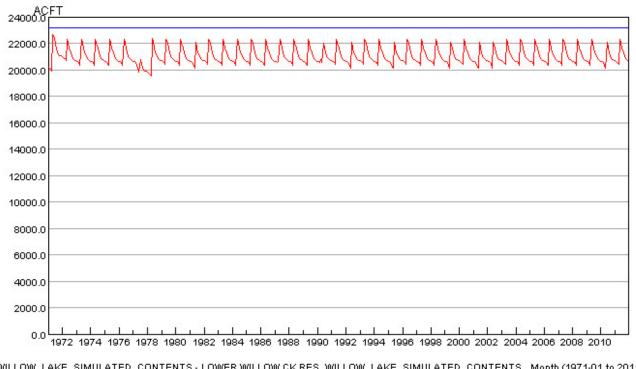
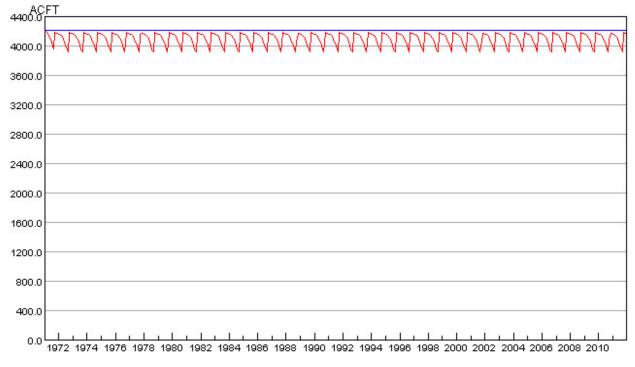


Figure 4.11 Reservoir Storage Target and Contents – Fontenelle Reservoir



WILLOW\_LAKE\_SIMULATED\_CONTENTS - LOWER WILLOW CK RES, WILLOW\_LAKE\_SIMULATED\_CONTENTS...Month (1971-01 to 2011-12) WILLOW\_LAKE\_TARGET - LOWER WILLOW CK RES, WILLOW\_LAKE\_TARGET...Month (1971-01 to 2011-12)

Figure 4.12 Reservoir Storage Target and Contents – Willow Lake



MIDDLE\_PINEY\_LAKE\_SIMULATED\_CONTENTS - MIDDLE PINEY LK, MIDDLE\_PINEY\_LAKE\_SIMULATED\_CONTENTS...Month (1971-01 to 20 MIDDLE\_PINEY\_LAKE\_TARGET - MIDDLE PINEY LK, MIDDLE\_PINEY\_LAKE\_TARGET...Month (1971-01 to 2011-12)

Figure 4.13 Reservoir Storage Target and Contents – Middle Piney Lake

# **APPENDIX G**

# FONTENELLE MEMO AND MAJOR RESERVOIR INFORMATION MEMO

# **Technical Memorandum**

## Subject: Use of Wyoming's Contract Storage Water in Fontenelle Reservoir

This memorandum addresses how Wyoming's use of its contract water in Fontenelle Reservoir could affect the state's remaining compact entitlements under the Colorado River Compacts. The Fontenelle Reservoir storage water right (permit no. 6629R), held by the Bureau of Reclamation (Reclamation), has a priority date of January 22, 1962 to store 345,397 acre-feet of water. As prescribed by the original storage right, the Reservoir was originally divided into three separate pools: a 190,250 acre-feet active pool, a 154,584 acre-feet inactive pool, and a 563 acre-feet dead pool. Authorized uses of Fontenelle Reservoir under the water right include: irrigation, domestic, industrial, municipal, stock watering, fish and wildlife and recreation as primary purposes, with power generation specified as the only secondary purpose.

The 154,584 acre-feet inactive pool was originally defined by the elevation of the proposed east and west canal outlet structures. The inactive pool has historically been used only for power production, recreation and fish and wildlife purposes. The elevation of the active pool, outlet structures and canals was established to convey water to irrigate the Seedskadee Project. Since the canals and other irrigation components were never constructed, Reclamation filed an application with the State Engineer in 1973 for an enlarged active capacity of 344,844 acre-feet, which includes the original active capacity of 190,250 acre-feet and previously inactive capacity of 154,584 acre-feet. The State Engineer granted Reclamation's request, documented by permit no. 9502R, which has a priority date of December 7, 1973. Therefore, all but the reservoir's 563 acre-feet dead pool is stored as active capacity under two water rights: 1) Permit No.. 6629R with a priority date of January 22, 1962 for the original 190,250 acre-feet active pool and 2) Permit No. 9502R with a priority of December 7, 1973 for the 154,584 acre-feet pool.

Through 1962 and 1974 contracts with the United States, the State of Wyoming has the right to perpetually market 120,000 acre-feet of the original active capacity of 190,250 acre-feet. The 1974 contract provides the state the first right of refusal to purchase water from the remaining capacity of 70,250 acre-feet and the reactivated capacity of 154,584 acre-feet. In order to acquire water from the reactivated capacity, Wyoming would likely need to invest in the placement of rip-rap on the upstream slope of the dam, between the bottom of the original active capacity and the toe of the dam. Under current operations, this portion of the dam is not subjected to wave action.

The State of Wyoming presently has four active contracts for Fontenelle storage water: PacifiCorp has contracted for up to 35,000 acre-feet to be used as cooling water at their Jim Bridger Power Plant; FS Industries, has contracted for up to 10,000 acre-feet of water for producing chemical fertilizer at their Rock Springs facilities; Church and Dwight has contracted for up to 1,250 acre-feet of water for their "Arm and Hammer Baking Soda" production facility near Green River; and Exxon has contracted for up to 300 acre-feet for domestic purposes and for use in the production of natural gas at their Shute Creek Plant. These contracts could result in the ultimate use of 46,550 acre-feet per year of Fontenelle storage water. While these contractors are annually making "readiness-to-serve" payments, there has never been a request for water delivery for use.

The River Basin Planning process was established, in part, to determine how much water is used within Wyoming and how much water remains for future development and use. As part of Wyoming's River Basin planning process, a Green River Basin Plan was completed in 2001 and an update was completed in late 2010. The plans show an increase in water use within the basin over the time periods of study, the first plan estimated growth to 2030 and the update extended the growth projections to 2055. Table 1 shows the projected growth in demand for Green River Basin water from the updated plan. Three growth scenarios were used, Low, Moderate and High. The three scenarios were used to provide a range for potential future water use within the basin without exceeding our compact allocation.

Surface Water	Projected Growth Scenarios Acre-Feet per Year					
	Current 2010 - 50 Yr Projection					
	Condition	n Low Moderate		High		
Wyoming's Share of the Upper						
Colorado River Water	847,000	847,000	847,000	847,000		
Estimated Depletions	598,000	608,295	680,076	788,675		
Remaining Compact Allocation         249,000         238,705         166,924         58,325						

Table 1. Projected Use of Wyoming's Upper Colorado River Compact Allocation

Estimates of Wyoming's Share of the Upper Colorado River Water are provided by the State Engineer's Office

In the high growth scenario, the majority of Wyoming's share of the Upper Colorado River will be used. The 2010 plan shows there would only be 58,325 acre-feet per year of Wyoming's share remaining. As of 2010, the 120,000 acre feet of Fontenelle water has been "developed" but not "used." Therefore, the 120,000 acre-feet of water was not included in Table 1 "Estimated Depletions" under the current condition or growth scenarios.

The availability of the 120,000 acre feet must be considered in future water planning because its ultimate use could reduce the amount of water available for other future projects and uses. The updated plan indicates that as the basin grows there will be an increased demand for industrial development water. Industrial water use would increase more than other water uses by percentage. For example, agricultural water use is the largest water use in the basin but it is not expected to grow proportionally as much as industrial water use. Therefore, the most likely scenario for the use of the Fontenelle storage water is to meet future industrial demands.

Table 2 shows the industrial water use under the three growth scenarios presented in the 2010 plan.

Growth Scenario	Consumptiv	Consumptive Use Acre-Feet per Year				
	Current	2055	Difference			
Low Growth						
Electric Power	39,700	50,000	10,300			
Soda Ash	16,400	30,800	14,400			
Other	700	2,500	1,800			
Total	56,800	83,300	26,500			
Moderate Growth						
Electric Power	39,700	65,000	25,300			
Soda Ash	16,400	48,500	32,100			
Other	700	10,200	9,500			
Total	56,800	123,700	66,900			
High Growth						
Electric Power	39,700	115,000	75,300			
Soda Ash	16,400	75,200	58,800			
Other	700	16,200	15,500			
Total	56,800	206,400	149,600			

 Table 2. Green River Basin Industrial Water Use Projections

The following exercise is offered to determine the effects of the use of the Fontenelle water on Wyoming's remaining compact allocation provided in Table 1. The following table (Table 3) depicts the amount of Fontenelle water that would be left if all of the increases in industrial consumptive use under the three growth scenarios depicted in Table 2 come from Wyoming's contracted share of water in Fontenelle Reservoir for all growth.

Table 3. Projected Use	of Fontenelle Water,	Acre-Feet per Year
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	Current	Low Growth	Moderate Growth	High Growth
Fontenelle Storage Water	120,000	120,000	120,000	120,000
Projected Use	0	26,500	66,900	120,000
Amount Remaining	120,000	93,500	53,100	0

The "Amount Remaining," depicted in Table 3 would be considered "developed" but "unused." In order to determine the effects on Wyoming's remaining compact allocation if the remaining Fontenelle water is used, Table 4 deducts the "Amount Remaining" in Table 3 from the "Remaining Compact Allocation" from Table 1.

	Current	Low Growth	Moderate Growth	High Growth
Remaining Compact Allocation	249,000	238,705	166,924	58,325
Fontenelle Water Remaining	120,000	93,500	53,100	0
Available for Development	129,000	145,205	113,824	58,325

 Table 4. Remaining Compact Allocation Available for Development Acre Feet per Year

"Available for Development" provided in Table 4 is an indication of Wyoming's remaining compact allocation that would be available for development even if all of the 120,000 acre feet of storage water in Fontenelle Reservoir is used. Further, if Wyoming exercised its right of first refusal for the additional purchase of 224,834 acre feet of capacity in Fontenelle Reservoir, our remaining compact allocation would be fully depleted under all growth scenarios.

This exercise is not suggesting that Wyoming should spend its remaining compact allocation for industrial purposes through the use of Fontenelle water. Wyoming also has goals to provide additional municipal and irrigation water in the basin. However, through its investments in Fontenelle Reservoir, Wyoming has "developed" its remaining compact allocation and it should not be considered by others for downstream purposes.

For more information see Wyoming Green River Basin Plan II online at http://waterplan.state.wy.us/plan/green/green-plan.html

### **TECHNICAL MEMORANDUM**

SUBJECT:	Green River Basin Plan II		
	Major Reservoir Information		

DATE: 8/10/2009

PREPARED BY: WWC Engineering

This technical memorandum is an update of *Major Reservoir Information Technical Memorandum* completed by States West Water Resources' for the 2001 Green River Basin Plan. There have been no significant changes to major reservoirs in the Green River Basin aside from the completion of High Savery Reservoir in 2003; data on this new reservoir is included in this technical memorandum. Data on High Savery Reservoir was furnished by the Wyoming State Engineer's Office for this update.

#### Introduction

The Green River Basin contains many large reservoirs used for several purposes including storage for irrigation, municipal, industrial, recreation, fish propagation and flood control uses, among others. These reservoirs help sustain what is otherwise arid to semi-arid land. The reservoirs are owned by various state, federal, industrial and private interests. For purposes of this plan, reservoirs larger than 1,000 AF are focused upon although some that are smaller are also discussed. The list below includes reservoirs discussed in the Framework Water Plan (Wyoming Water Planning Program, 1970) and others that have been constructed, funded, or elevated in importance since. A map of major reservoirs in the Green River Basin is provided as Figure 1 at the end of this document.

In alphabetical order, the reservoirs discussed herein include:

Water Course	Maximum Storage	AF
Big Sandy	Big Sandy River	39,700
Black Joe Lake	Black Joe Creek	1,102
Boulder Lake	Boulder Creek	22,280
Bush Creek	Bush Creek	17,267
Bush Lake	Bush Creek	1,686
Divide Lake	Divide Creek	1,027
≻ Eden	Big & Little Sandy Rivers	18,490*
Elkhorn	Little Sandy River	1,450
Flaming Gorge	Green River	3,789,000
Fontenelle	Green River	345,397
Fremont Lake	Pine Creek	30,899
Hay Reservoir	Red Creek	8,327
High Savery	Savery Creek	22,433

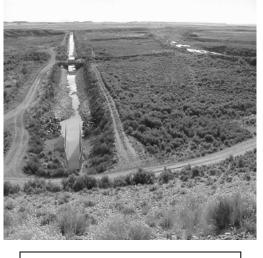
Water Course	Maximum Storage,	AF
➢ Kemmerer City (Kemmerer No. 1)	Hams Fork	1,058
➤ McNinch No. 1	North Piney Creek	1,086
McNinch No. 2	North Piney Creek	198
Meeks Cabin	Blacks Fork	33,571
➢ Middle Piney	Middle Piney Creek	4,201
New Fork Lake	West Fork New Fork River	20,340
Paterson Lake	Blacks Fork	1,237
Pacific No. 1	Pacific Creek	107
Pacific No. 2	Pacific Creek	1,394
Silver Lake	Silver Creek	933
Sixty-Seven	North Piney Creek	5,211
➢ Stateline	East Fork Smiths Fork	14,000
Viva Naughton	Hams Fork	42,393
➢ Willow Lake	Lake Creek	18,816
		1

\* currently reduced to 12,190 AF because of stability concerns at higher water levels

A brief description of each follows:

#### **Big Sandy Reservoir**

A Bureau of Reclamation project, the Big Sandy Reservoir is formed by an earthen dam located on the Big Sandy River about 10 miles north of Farson, Wyoming. The storage capacity of 39,700 AF is permitted for irrigation use, but the reservoir also provides local recreational benefits. The reservoir is operated by the Eden Valley Irrigation and Drainage District. Additional information and data are available at http://dataweb.usbr.gov/html/eden.html on the internet.



Big Sandy Reservoir Outlet

#### **Black Joe Lake**

Black Joe Lake, located high in the Wind River Range in the upper reaches of the Big Sandy River, is a natural lake with its storage increased using a small dam. The dam is constructed of rock-filled timber cribbing and is approximately 13.5 feet in height. This embankment increases storage in the reservoir by 1,101.8 AF, which is permitted for irrigation. Nearby is Clear Lake, a sister lake with a similar dam, also enlarged, with a permitted capacity of 318.6 AF.

### **Boulder Lake**

Boulder Lake, as currently configured, is a natural lake which has been raised by the addition of a dam at the outlet. With an enlargement, the reservoir now impounds over 22,000 AF above the natural lake level. The additional storage is permitted for irrigation use. Boulder Lake is a morainal lake located on the western flank of the Wind River Mountains and is, in this regard, similar to Fremont, New Fork and Willow Lakes. Boulder Lake has no staff gage or lake level instrumentation, so storage fluctuations can only be estimated. Boulder Lake irrigation releases are managed by the Boulder Irrigation District.

### Bush Lake

See Hay Reservoir.

#### **Bush Creek Reservoir**

Bush Creek Reservoir is constructed to be fed by a canal from Bush Creek, located in the Great Divide Basin. On maps it is sometimes denoted John Hay Reservoir. The outlet is not tributary to the Green River. This reservoir has a permitted capacity of 17,266.651 AF designated for irrigation, stock, and domestic uses.

#### Divide Lake

Divide Lake is located in the Wind River Range on Divide Creek, tributary to Boulder Creek (upstream of Boulder Lake) and the New Fork River. It is an enlargement of a natural lake, with a dam constructed of a combination earthfill/rock filled cribbing structure. The dam stores a permitted capacity of 1,027.36 AF designated for irrigation, stock, and domestic uses in the Scab Creek drainage.

#### Eden Reservoir

Originally permitted as "Eden Irrigation and Land Company No. 1," the Eden Reservoir is an off-channel reservoir fed from the Little Sandy River and from Big Sandy Dam. Impoundment is created by three irregular dikes. Its total storage capacity, as permitted, is almost 18,500 AF, although current operations limit storage to 12,190 AF for stability reasons. Along with Big Sandy, Eden serves the Eden Valley Irrigation District. Originally planned for removal by the Bureau of Reclamation, Eden Reservoir still exists to provide irrigation water. Additional information data available and are at http://dataweb.usbr.gov/html/eden.html on the internet.

#### <u>Elkhorn</u>

Alternately named Little Sandy Reservoir, Elkhorn Reservoir is located high on Little Sandy Creek in the southern Wind River Range. It is an enlargement of a natural lake, containing 1,450 AF permitted for stock and irrigation uses.

#### Flaming Gorge

Created by a concrete arch dam in Utah, Flaming Gorge is a Bureau of Reclamation Project on the main stem of the Green River. The reservoir has no Wyoming water right, and serves no lands in Wyoming, although a significant amount of its surface area is in Wyoming. The capacity of Flaming Gorge is 3,789,000 AF, which is used for irrigation, power, fish and wildlife, and recreation. More information can be found at http://dataweb.usbr.gov/dams/ut10121.html on the internet. Because it contains no Wyoming water rights, Flaming Gorge Reservoir is not described in the Reservoir Summary Sheets.

#### **Fontenelle**

Another Bureau of Reclamation project, Fontenelle Reservoir is an earthen dam on the main stem of the Green River, located just downstream of the town of LaBarge. With a storage capacity of 345,397 AF, Fontenelle is a multi-purpose project with permitted uses that irrigation, domestic. include industrial. municipal, stock, fisheries, recreation, and hydropower. Additional information and data are available at http://dataweb.usbr.gov/html/seedskadee.html on the internet.



Fontenelle Dam

#### Fremont Lake

A morainal lake, Fremont is the seventh deepest lake in the contiguous United States, excluding the Great Lakes. Like Boulder, Willow, and New Fork Lakes, its level has been raised over time by the addition of a dam at the outlet. Having been enlarged several times, Fremont Lake now impounds over 30,000 AF above the natural lake level, of which about 25,400 AF is usable (available to the newest outlet). Fremont Lake has outstanding clarity. It serves not only irrigation and recreation uses, but is also the municipal supply for the Town of Pinedale, Wyoming. Other uses listed on permits for Fremont Lake include hydropower, industrial, and fisheries. The "Fremont Lake Reservoir Operating Guide" (Gilbert, 1996) provides detailed information on the lake, its watershed characteristics, and general operating recommendations.

## <u>Hay Reservoir</u>

The Hay Irrigation Project includes both Hay and Bush Lake Reservoirs. These reservoirs are situated about 30 miles north of I-80 nearly midway between Rawlins and Rock Springs, and are about 10 miles southeast of Bush Creek (John Hay) Reservoir. Hay Reservoir, which has been enlarged, is permitted to store approximately 5,840 AF for irrigation and stock uses. The Bush Lake Reservoir stores approximately 1,390 AF.

## High Savery Reservoir

High Savery Reservoir, completed November 15, 2003, primarily provides supplemental irrigation water to the Savery Creek and Little Snake River valleys in the southeastern corner of Wyoming's Green River Basin. Located high on Savery Creek in Carbon County, High Savery is permitted to store 22,432 acre-feet of water for late season irrigation, recreation, municipal, environmental, and fishery uses. High Savery is impounded by an earthen dam. The reservoir is be owned by the State of Wyoming Water Development Commission and operated by the Savery - Little Snake Water Conservancy District.

#### Kemmerer City (Kemmerer No. 1) Reservoir

Located on the Hams Fork River near the Town of Kemmerer, Wyoming, this reservoir serves as a diversion point for the town's municipal water supply. With 1,058 AF of storage, it is not large in comparison with other reservoirs in the basin.

## McNinch No. 1& 2 Reservoirs

The McNinch reservoirs are private impoundments located on McNinch Wash, tributary to North Piney Creek. They are situated about one mile west of Sixty Seven Reservoir. McNinch No. 1 is fed by Beaver Creek and Spring Creek, both tributary to North Piney Creek. McNinch No. 2 is fed by McNinch Wash (McNinch Draw). Capacities are 1,086 AF for No. 1, and 198 AF for No. 2. Both reservoirs are permitted for irrigation, stock, and domestic uses.

#### Meeks Cabin Reservoir

Meeks Cabin Dam is a Bureau of Reclamation Project on the Blacks Fork (of the Green) River. Located near the Utah border, Meeks Cabin provides water for irrigation and stock from its 33,571 AF permitted capacity. The reservoir is operated by the Bridger Valley Water Conservancy District. Additional



Meeks Cabin Dam

information and data are available at <u>http://dataweb.usbr.gov/html/lyman.html</u> on the internet.

#### Middle Piney Lake

Middle Piney Lake is located on the headwaters of Middle Piney Creek in the Bridger National Forest. It is situated about 15 miles due west of the McNinch reservoirs. The reservoir contains 4,201 AF of storage permitted for irrigation, stock, and domestic uses. In 1997, the interest in the reservoir was assigned to the USDA Forest Service. Currently, the reservoir is operated with the outlet gates fully open, essentially passing water through the reservoir.

#### <u>New Fork Lake</u>

Among those listed here, New Fork Lake is the northernmost of the morainal lakes on the east flank of the upper Green River Basin. It is located on the upper New Fork River, a major tributary of the Green River. As with Fremont, Boulder, and Willow Lakes, its capacity has been increased by man; currently, the lake stores 20,340 AF over and above the natural lake level. Water in this storage is permitted for irrigation use. Releases for use by the New Fork Irrigation District do not enter any single large canal near the dam as the river itself is the major conveyance, with individual irrigators taking storage water from the river at their own headgates.

#### Pacific Reservoirs No. 1 and 2

These two reservoirs are located on the very upper reaches of the Pacific Creek Basin, which is tributary to Little Sandy Creek, in Fremont County. Permitted capacities for the two reservoirs are 106.91 AF for No. 1 and 1,394.21 for No. 2. Interestingly, both reservoirs store water from the Sweetwater River via transbasin diversion. Both reservoirs are permitted for irrigation and stock uses.

#### Paterson Lake

Located about 1 mile northwest of Lyman, Paterson Reservoir is also denoted as Rollins Reservoir on some maps. It is an off-channel reservoir fed by the Fort Bridger Canal from the Blacks Fork River. The reservoir contains 1,237 AF permitted for irrigation use.

#### <u>Silver Lake</u>

Silver Lake is located in the Wind River Range on Silver Creek, tributary to the East Fork New Fork River and the New Fork River. Permitted for irrigation and stock use, the maximum capacity of the reservoir, as enlarged, is 2,151.63 AF.

## <u>Sixty-Seven</u>

This reservoir is an off-channel structure fed by the Hughes Ditch from North Piney Creek and from Spring Creek, a tributary of North Piney Creek. As enlarged, the reservoir stores 4,329 AF for irrigation, stock, and domestic purposes. The reservoir is located about 6 miles northwest of the Town of Big Piney.

## Stateline Reservoir

Stateline reservoir is located entirely within the State of Utah, and has no State of Wyoming permits. However, water within its storage capacity is used for irrigation of Wyoming lands and for municipal use in the Lyman/Fort Bridger valley. Additional information and data are available at <u>http://dataweb.usbr.gov/html/lyman.html</u> on the internet.

## Viva Naughton

Viva Naughton Reservoir is operated by the Naughton Power Plant in Kemmerer. This plant (previously owned by PacifiCorp, now owned by Scottish Power) uses water from the reservoir for cooling needs of the coal-fired process. While no irrigation uses are explicitly listed in the permit, Naughton does release water for downstream irrigation during times of sufficient supply. Similarly, while Viva Naughton is not a flood control structure, the owner does try to operate the plant in a fashion to minimize downstream flooding. Constructed capacity of the reservoir is 45,465 AF.



Viva Naughton Reservoir

## Willow Lake

Willow Lake is the last morainal lake on this list. This lake is located on Lake Creek, tributary to the New Fork River. Operation is not by any particular district or political entity, but by owners of "shares" in the lake's storage. Located north of Fremont Lake, the manmade storage is permitted for irrigation, stock, and domestic uses. The total permitted amount of the additional storage is 18,816 AF.

# Evaporation

Evaporation from reservoirs constructed by man is a consumptive use associated with the beneficial use of water for other purposes and is charged against Wyoming's allocation under the Upper Colorado River Basin Compact. Traditionally, evaporation estimates are calculated by the Bureau of Reclamation and published in the "Consumptive Uses and Losses Report," (CULR) which is prepared every five years. In this report, the larger Bureau reservoirs in the Green and Colorado River Basins are classified as "main stem" reservoirs, the evaporation from which is tabulated and carried separately from evaporation calculated for in-state reservoirs. Upper Colorado River Basin main stem reservoirs include Flaming Gorge, Blue Mesa, Morrow Point and Lake Powell.

For these main stem reservoirs, the aggregate evaporation is charged against the various states' apportionment in the percentage allowed for each state by the Upper Colorado River Basin Compact, under *full development* (full use of allowed depletions). By this Compact Wyoming is allowed 14 percent of the total depletions allowed the States of the Upper Division (the Upper Basin States minus Arizona) by the Colorado River Compact; therefore, at full development, 14 percent of the Upper Basin mainstem evaporation is charged to Wyoming. Prior to full development, Article V of the Upper Colorado River Basin Compact states that Wyoming's share will be calculated as the same fraction of main stem evaporation as Wyoming's consumptive use bears to the total consumptive use by States of the Upper Division.

For the years 1996-2000, Wyoming's fraction of the total consumptive use of the Upper Division states was 11.64 percent. In these same years, the average main stem evaporation was 682,200 acre-feet. Therefore, Wyoming's charge for main stem evaporation would be calculated as 79,408 acre-feet. This value, however, overstates the amount of Wyoming's main stem evaporation portion when the basin sees full development. Under full development of all states' full compact allotments, reservoir levels will average lower than they do now, due to increased drawdowns. Under this scenario the Bureau estimates a full development main stem evaporation of 520,000 acre-feet annually, from which Wyoming's 14 percent charge can be estimated to be 72,800 acre-feet annually (Bureau of Reclamation, January 1999).

Reservoirs not included in the main stem calculations are handled separately and the evaporation therefrom is charged totally to the state within which they reside. In Wyoming, the Bureau has identified 76 individual reservoirs in the Green River Basin for which evaporation is explicitly calculated. Table 1 lists these reservoirs and the net annual evaporation at each for the years 1996-2000, which is the last full five year period for which a final CULR is available. The Bureau charges evaporation without regard to the uses for which a reservoir is permitted. That is, no separate accounting is kept for evaporation from irrigation, recreation, fish and wildlife or other pools.

Table 1 - Wyoming Reservoir Evaporation         Reservoir       Net Annual Evaporation (acre-feet) <sup>1</sup>									
Reservoir –	1996	1997	1998	1999	2000	Average			
Joe Budd	22.4	22.4	22.4	22.4	22.4	22.4			
McNinch No.1	133.5	133.5	133.5	133.5	133.5	133.5			
McNinch No.2	53.7	53.7	53.7	53.7	53.7	53.7			
Middle Piney	227.5	227.5	227.5	227.5	227.5	227.5			
Sixty-Seven	467.1	467.1	467.1	467.1	467.1	467.1			
Sphaeralcea	17.4	17.4	17.4	17.4	17.4	407. 17.4			
Black Joe Lake	113.1	113.1	103.6	113.1	17.4	111.2			
Boulder Lake <sup>2</sup>	253.2	253.2	220.7	253.2	253.2	246.7			
Boulter	44.1	44.1	40.2	44.1	44.1	43.3			
Divide Lake	133.0	133.0	127.2	133.0	133.0	131.8			
Fremont Lake (1993) <sup>2</sup>	0.0	0.0	373.1	390.0	390.0	230.6			
J-J No.3	8.4	8.4	7.7	8.4	8.4	8.3			
Kitchen	17.4	17.4	17.0	17.8	17.8	17.5			
New Fork Lake <sup>2</sup>	190.0	190.0	190.0	190.0	190.0	190.0			
Silver Lake	162.0	162.0	162.0	162.0	162.0	162.0			
Soda Lake Wetlands	25.0	25.2	22.0	25.2	25.0	04.0			
(1989)	25.2	25.2	23.0	25.2	25.2	24.8			
Sunset	13.7	13.7	12.0	13.7	13.7	13.4			
Ward Ball	61.9	61.9	54.3	61.9	61.9	60.4			
Willow Lake <sup>2</sup>	263.7	263.7	252.3	263.7	263.7	261.4			
Elias	8.9	8.9	8.9	8.9	8.9	8.9			
Fontenelle	17,284.3	18,789.0	17,582.8	18,605.8	17,098.5	17,872.1			
Graham No.2	30.0	30.0	30.0	30.0	30.0	30.0			
Kovach (1988)	54.7	54.7	54.7	54.7	54.7	54.7			
Big Sandy	5,104.0	5,587.4	5,633.7	5,653.3	3,830.0	5,161.7			
Clear Lake	48.3	48.3	48.3	48.3	48.3	48.3			
Eden	1,807.3	1,804.4	1,753.1	1,807.3	1,807.3	1,795.9			
Elkhorn (Little Sandy)	145.0	145.0	145.0	145.0	145.0	145.0			
Erramouspe	32.5	32.5	32.5	32.5	32.5	32.5			
Pacific No.1	29.2	29.2	29.2	29.2	29.2	29.2			
Pacific No.2 (Hay									
Meadow)	309.3	309.3	309.3	309.3	309.3	309.3			
Prospect No.1	59.5	59.5	59.5	59.5	59.5	59.5			
Sublette (Juel)	68.8	68.8	68.8	68.8	68.8	68.8			
Williams No.2	20.0	20.0	20.0	20.0	20.0	20.0			
Williams No.3	26.3	26.3	26.3	26.3	26.3	26.3			
Zemba	19.5	19.5	19.5	19.5	19.5	19.5			
Fifteen Mill Knoll	55.0	55.0	55.0	55.0	55.0	55.0			
Uncapher	56.6	56.6	56.6	56.6	56.6	56.6			
Fosdick	26.1	25.2	25.9	26.1	26.1	25.9			
Stoffer Ridge	23.4	22.5	23.2	23.4	23.4	23.2			
Byrne	16.1	16.1	16.1	16.1	16.1	16.1			
Clifford F. Graham	77.2	77.2	77.2	77.2	77.2	77.2			
Colleti No.2	7.6	7.6	7.6	7.6	7.6	7.6			
Cottonwood	93.3	93.3	93.3	93.3	93.3	93.3			
Coyote	18.4	18.4	18.4	18.4	18.4	18.4			

Reservoir			nual Evapor	ation (acre-fe	eet) <sup>1</sup>	
	1996	1997	1998	1999	2000	Average
Davis No.1	22.0	22.0	22.0	22.0	22.0	22.0
Enlargement of the						
No.3	464.2	464.2	464.2	464.2	464.2	464.2
Erickson	27.3	27.3	27.3	27.3	27.3	27.3
Franklin	44.7	43.5	43.1	46.2	46.2	44.7
Graham	32.1	31.1	30.8	34.0	34.7	32.5
Hickey	8.0	8.0	8.0	8.0	8.0	8.0
Isom (Austin)	369.8	369.8	369.8	369.8	369.8	369.8
Kemmerer	216.2	216.2	216.2	216.2	216.2	216.2
Lake Viva Naughton	2,699.4	2,699.4	2,699.4	2,699.4	2,699.4	2,699.4
Lower Snake River						
Reservoir	1,776.3	1,776.3	1,776.3	1,776.3	1,776.3	1,776.3
Meeks Cabin	615.5	589.3	703.9	682.4	483.0	614.8
Paterson Lake						
(Rollins)	300.1	292.9	290.2	314.9	320.2	303.7
Philip	6.9	6.7	6.6	7.2	7.4	7.0
Powers Stock	58.4	58.4	58.4	58.4	58.4	58.4
Reed	141.0	137.2	135.8	146.2	146.2	141.3
Tipperary (Murray)	30.3	30.3	30.3	30.3	30.3	30.3
Wall Development	100.0	450.0	450.0	400 5	100 5	1010
Company Dam	163.8	159.8	158.2	169.5	169.5	164.2
Wasatch (Ringdahl)	21.3	21.3	21.3	21.3	21.3	21.3
Broadbent No.2	19.3	19.3	19.3	19.3	19.3	19.3
Byrne	26.4	26.4	26.4	26.4	26.4	26.4
Davis No.2	31.5	31.5	31.5	31.5	31.5	31.5
Guild	46.6	46.6	46.6	46.6	46.6	46.6
Guild & Dean	102.5	102.5	102.5	102.5	102.5	102.5
Moslander	27.5	27.5	27.5	27.5	27.5	27.5
Piedmont	62.1	62.1	62.1	62.1	62.1	62.1
Skull Point	6.3	6.3	6.3	6.3	6.3	6.3
Vacher (VanTassel)	4.4	4.4	4.4	4.4	4.4	4.4
Cow Creek (1987)	135.7	135.7	135.7	135.7	135.7	135.7
Beavers	38.1	37.6	38.1	38.1	38.1	38.0
Highline	60.4	59.5	60.4	60.4	60.4	60.2
Sheep Mountain	45.5	44.8	45.5	45.5	45.5	45.4
J.O.	16.3	16.3	16.3	16.3	16.3	16.3
Little Robber	48.7	48.7	48.7	48.7	48.7	48.7
Green River Basin			ŀ	ŀ		
CULR Total	37,293.2	39,231.9	38,430.7	39,653.7	36,130.9	36,150.1
Other Reservoirs Not						
in CULR:	Average Annual	Estimates of I	vet Evaporati	on:		
High Savery						869
Muddy Creek						<u> </u>
Wetlands Grand Total	38,446.2	40,384.9	39,583.7	40,806.7	37,283.9	284 <b>37,303.1</b>

<sup>1</sup>Original data from supporting documentation, USBR Consumptive Uses and Losses Report, 1996-2000.

<sup>2</sup>Revised to only account for incremental evaporation due to enlargement.

# Attachments

Attached to this memo is more information regarding the reservoirs listed above. Table 2, Green River Basin Reservoir Summary lists all of the reservoirs along with location, permit information, owner, etc. Following this table is Appendix A, where each reservoir is detailed on a Reservoir Summary Sheet, listing, in addition to most of the information from Table 1, summaries of the outlet works and spillway construction and capacities, monthly evaporation and precipitation rates, and operating notes. When available, the end-of-month contents are also listed. Following the summary sheet, area-capacity tables are presented for reservoirs if they could be obtained. The sources for the information contained in these attachments are the permits on file at the Wyoming State Engineer's Office and in the list of references to follow.

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Major Reservoir Information



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Table 2 - Green R	iver Basin Reservoir S	ummary									
Reservoir or Lake	Watercourse	County	S, T(N), R(W)	Permit No.	Priority Date	<b>Permitted</b> Uses	HWL Area (Ac)	HWL Capacity (AF)	Reservoir Owner/Manager	Year of Cert. of Const.	Notes
Big Sandy	Big Sandy River	Sweetwater	11, 26, 106	947R	11/09/1906	Ι	1,660.8	39,700	Eden Valley Irr Dist & USBR	1983	
Black Joe	Black Joe Creek	Sublette	17, 32, 103	5397R	03/21/1935	Ι	102.49	1,101.8	USA, c/o Farm Security Adm.	1945	
				4038R	01/27/1927	Ι	1,698	16,207		1956	
Boulder	Boulder Creek	Sublette	14, 33, 108	6572R	04/26/1961	I, D, Ind, M, S, FI, R	1,676.5	6,073	Boulder Irr. Dist	1970	4,453 AF Irr, 1,621 AF FI & W
Bush Creek	Bush Creek	Sweetwater	15, 25, 98	4058R	02/24/1928	I, S, D	2,629.243	17,266.651	Blair and Hay Land and Livestock Company	1959	Reservoir has 2 dams: Outlet No. 1 in Sec. 15, Outlet No. 2 in Sec. 14
Divide	Divide Creek	Sublette	14, 33, 106	5365R	07/30/1934	I, S, D	133.28	1,028.36	Mr. John Blatt	1967	Releases used in Scab Cr. Drainage
Eden	Big & Little Sandy Rivers	Sweetwater	20, 26, 105	818R	12/30/1905	I, D	1,361.85	18,489.93	Eden Irrigation & Land Co.	1925	off-channel storage
Elkhorn (Little Sandy)	Little Sandy Creek	Sublette	27, 31, 103	1025R	07/23/1906	Ι	145	1,450	Joe Thompson Jr. Livestock Co.	1947	Also known as Little Sandy
Flaming Gorge	Green River	Sweetwater	22, 12, 108	Utah							Dam is in UT
Fontenelle	Green River	Lincoln	25 24 112	6629R	01/22/1962	I, D, Ind, M, S, H, FI, R	8,058	345,397	USBR	1992	
Fontenene	Green Kiver	Lincoln	25, 24, 112	9502R	12/07/1973	I, D, Ind, M, S, H, FI, R	No Change	No Change		1992	Enlargement activated prev. inactive cap.
				4452R	09/10/1931	I, M, H, Man, FI, Ind, R	5,067.96	9,844.12	Town of Pinedale	1962	
Fremont	Pine Creek	Sublette	23, 34, 109	4453R	09/15/1931	I, S, D	5,087.02	5,377.92	L. H. Hennick et al		Total Cap = 30,899.44 AF
		Sublette	23, 34, 109	4465R	11/29/1951	I, S, D	5,105.72	5,385.4	Fremont Lake Res. Assn.	1956	$10 \tan Cap = 50,077.44 \text{ AI}^{\circ}$
				8937R	02/02/1977	I, M	5,122.28	10,292.00	Town of Pinedale & Highland Irrigation District	1997	

Table 2 - Green R	iver Basin Reservoir S	Summary									
Reservoir or Lake	Watercourse	County	S, T(N), R(W)	Permit No.	Priority Date	Permitted Uses	HWL Area (Ac)	HWL Capacity (AF)	Reservoir Owner/Manager	Year of Cert. of Const.	Notes
Нау	Red Creek	Sweetwater	33, 24, 97	547R 2339R	07/20/1904 08/11/1911	I, S I, S	310 1,036.63	2,480 3,366.59	Sweetwater Cattle Company	1930 1917	Total Capacity = 5,846.59AF
High Savery	Savery Creek	Carbon	16, 15, 88	11472R 11473R	12/03/1997	I, M, FI, R	482	22,433	Water Development Commission	2003	
Kemmerer No. 1	Ham's Fork	Lincoln	26, 23, 117	5302R 9776R	05/24/1935 01/12/1990	Ind, M Ind, M	134.27 182.93	1,058 710.78	City of Kemmerer	1958 1990	Total Cap = 1,768.78 AF
McNinch No. 1	Spring Creek	Sublette	11, 30, 113	5413R 5801R	03/05/1941 07/17/1947	I, S, D I, S, D	108.2 107.04	873 213.35	E.W. McNinch and Lois C. McNinch	1956 1956	Total Cap = 1086.35 AF
McNinch No. 2	NcNinch Draw	Sublette	11, 30, 113	5412R	03/05/1941	I, S, D	26.4	198	E.W. McNinch and Lois C. McNinch	1957	
Meeks Cabin	Blacks Fork	Uinta	11, 12, 117	6276R 5547R	03/26/1935 04/06/1939	I, S	326 765	16,301.5 17,269.5	USBR	1979	Total Cap = 33,571 AF : Enl Transfer from Willow Cr Res.
Middle Piney	Middle Piney Creek	Sublette	8, 30, 115	3578R	07/04/1919	I, S, D	164.56	4,201	USDA Forest Service	1944	
New Fork Lake	W Fk New Fork River	Sublette	7, 36, 109	480R	11/11/1903	Ι	1,416	20,340		1951	
Pacific No. 1	Pacific Creek	Fremont	1, 27, 102	4025R	08/14/1926	I, S	23.27	106.91		1926	Source is Sweetwater River (transbasin)
Pacific No. 2	Whitehorse Creek	Fremont	32, 27, 102	4026R	08/14/1926	I, S	257.88	1394.21		1926	Source is Whitehorse Draw and Sweetwater River
Paterson Lake	Black's Fork River	Uinta	19, 16, 114	443R	08/12/1903	I, D, H	200	1,237	Farmer's Land and Livestock Co.	1955	
Silver Lake	Silver Creek	Sublette	34, 33, 105	3970R	11/19/1924	Ι	157.52	1,219.11	Silver Lake Reservoir Company	1948	Total Cap = 2,151.63 AF
Shiver Lake	Shiver Creek	Sublette	54, 55, 105	5769R	11/20/1950	I, S	180.0	932.52	Silver Lake Irrigation District		10tal Cap – 2,151.05 M
Sixty Seven	North Piney Creek	Sublette	17, 30, 112	535R 2878R	07/08/1904 07/12/1915	S, D S, D	293.568 333	3,373.732 953.268	Mr. Jay Downes	1935 1935	Total Cap = 4329 AF.
State Line	E. Fk. Smith's Fk	in Utah							USBR		dam and res in UT; UT permits not shown
				6418R	08/01/1957	Ind	1,458.18	42,393	UP&L	1977	
Viva Naughton	Ham's Fork	Lincoln	14, 23, 117	7476R 7599R	08/20/1971 08/20/1973	Ind, I Ind	1,935.65 2,200	27,252 12,250	assigned to PacifiCorp	NA	3,072 AF of 7476R Built; Total Cap. = 45,465 AF.
				3831R	08/20/19/3	Ind I, S, D	2,200 1,945	12,230		1931	+3,+03 AI'.
Willow	Lake Creek (Trib. Willow	Sublette	19, 35, 109	4475R	11/04/1931	I, S, D I, S, D	1,945	,	Burleigh Binning	1949	Total Cap = 22,630 AF
	Cr.)			6257R		I, S, D	1,958	3,814		1962	1 1

Reservoir Name:	Big Sandy				_	
Owner/Operator:	Eden Valle	ey Irr. Dist an	d U.S. Bure	au of Reclam	ation	
Storage Permit Nos	: 947R				-	
0		-		-		
HWL Data:	Area, ac:	1,660.80	Cap, ac-ft:	39,700	Elev, ft msl	6,760
Permitted Uses: Use: Irr	- - -	39,700 	ac-ft ac-ft ac-ft	Water Right Eden Valley		
	-		ac-ft			
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw		5'6" dia. Ho weir	rseshoe cor	Capacity, cfs Capacity, cfs Capacity, cfs	6:	
Average Annual Gro Average Monthly Gr		•	ı.):	40.00		
Oct 3.04	Feb	. ,	Jun	5.24	_	
Nov 1.56	Mar		Jul		_	
Dec <u>1.04</u>	Apr		Aug			
Jan <u>1.08</u>	May	4.60	Sep	4.60	Total, in:	40.00
Average Monthly Pr	•	,				
Oct 0.68	- Feb		_ Jun		_	
Nov 0.40	_ Mar		Jul		_	
Dec <u>0.41</u> Jan 0.37	_ Apr May		_ Aug Sep		Total, in:	8.01
	-	1.10	0ep	0.30	10(a), 11.	0.01
Average EOM Conte	· · ·	10,400	l	20.000	<b>`</b>	
Oct <u>13,500</u> Nov 15,000	-		-			
Dec 9,500	-		-		-	
Jan 12,100			- 0		-	
<u> </u>	<u> </u>		- 000		<u>-</u>	
Operating Notes:	Eden Valle	y Irrigation a	nd Drainag	e District ope	rates the Big	Sandy
Reservoir. The rese						
basis, through a car						
Eden and West Side	e Laterals, a	and the Farso	on Lateral.R	ecent constru	uction of reaul	ating

Eden and West Side Laterals, and the Farson Lateral.Recent construction of regulating reservoirs for pump stations has decreased delivery delays to farmers, which used to be significant and helped with application efficiency. EOM data developed from USBR Consumptive Uses and Losses Report, 1996-2000.

Reservoir Name:	Black Joe	Lake				
Owner/Operator:	USA, c/o F	arm Security	/ Adm.			
Storage Permit Nos:	5397R	-		-		
		-		_		
HWL Data:	Area, ac:	102.5	Cap, ac-ft:	1,102	Elev, ft msl	9,944
Permitted Uses: Use: Irrigation		1,102	ac-ft ac-ft ac-ft ac-ft ac-ft		ht Owners: rm Security Adr	n
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillv	•••	Gated Outle	et	Capacity, Capacity, Capacity,	cfs NR	
Average Annual Gro Average Monthly Gr Oct 2.75 Nov 1.41 Dec 0.94 Jan 0.98		ation (in.): 0.90 1.41 2.89	i.): Jun Jul Aug Sep	6.19 5.64	 Total, in:	36.17
Average Monthly Pro Oct 2.25 Nov 4.00 Dec 4.25 Jan 4.25	ecipitation ( Feb Mar Apr May	3.25 3.00 2.85	Jun Jul Aug Sep	1.80 1.75	 Total, in:	34.15
Average EOM Conte Oct N/A Nov N/A Dec N/A Jan N/A	ents (ac-ft): Feb Mar Apr May	N/A N/A	Jun Jul Aug Sep	N/A N/A		
	ing data are	e available				

Reservoir Name:	Boulder La	oulder Lake								
Owner/Operator:	Boulder Irri	igation Distri	ct							
Storage Permit Nos:	4038R		6572R							
HWL Data:	Area, ac:	1,676.5	Cap, ac-ft:	22,208	Elev, ft msl	7289.5				
Permitted Uses:				Water Right	Owners:					
Use: Irr.		16,207	ac-ft	4038R						
Irr.	-	4,453	ac-ft	6572R						
Fish & WI	_	1,621	ac-ft	6572R						
	-		ac-ft							
			ac-ft							
Service Outlet:	Туре:	2 - 4.5 ft x 4	.5 ft RCP	Capacity, cfs	900					
Principal Spillway:	Туре:	concrete we	eir	Capacity, cfs	6,160					
<b>Emergency Spillway</b>	Туре:			Capacity, cfs	:					
Miscellaneous Spillv	vay Info:	Maps show	location of	emergency sp	illway, but gi	ve no				
		details.								

Average Annual Gross FWS Evaporation (in.):

35.34

•		•		,				
Average M	onthly Gr	oss Evaporatio	on (in.):					
Oct	2.69	Feb	0.88	_	Jun	4.63	_	
Nov	1.38	Mar	1.38		Jul	6.04		
Dec	0.92	Apr	2.83		Aug	5.51		
Jan	0.95	May	4.06		Sep	4.06	Total, in:	35.34
Average M	onthly Pre	ecipitation (in.):	:					
Oct	0.95	Feb	0.97		Jun	1.35		
Nov	1.27	Mar	0.98		Jul	1.30		
Dec	1.25	Apr	1.06		Aug	1.25		
Jan	1.38	May	1.85	_	Sep	1.42	Total, in:	15.03
Average E	OM Conte	ents (ac-ft):						
Oct	N/A	Feb	N/A		Jun	N/A		
Nov	N/A	Mar	N/A		Jul	N/A		
Dec	N/A	Apr	N/A		Aug	N/A		
Jan	N/A	May	N/A	_	Sep	N/A	_	

Operating Notes: Irrigation releases are typically in the range of 360 cfs from May 15 to July 15. Releases occur at the dam and are picked up at the Boulder Irrigation Canal approximately 2 miles below the dam. Fall operations include a diversion of 100 to 125 cfs in September to increase soil moisture before winter. Approximately 35 cfs is diverted in October for stock water. The Howard-Ruth ditch is directly below the dam and annually purchases storage water from the lake. Boulder Reservoir has no staff gage, and no storage records are kept.

Reservoir	Name:	Bush Creel	k Reservoir				
Owner/Op	perator:	Blair and H	ay Land and	Livestock (	Company	_	
Storage F	ermit Nos:	4058R					
Ū					-		
HWL Data	a:	Area, ac:	2,629.2	Cap, ac-ft:	17,267	Elev, ft msl:	
Permitted	Uses:				Water Righ	t Owners:	
Use:	Irr., Stock	, Dom.	17,267			ir and Hay Lan	d &
				ac-ft	Livestock		
		-		ac-ft			
				ac-ft ac-ft			
				<u>ac-n</u>			
Service O	utlet:	Type:	2x30"Dia. G	ated Condu	Capacity, c	fs NR	
Principal \$	Spillway:	Type:	Weir		Capacity, c		
Emergeno	cy Spillway	Туре:			Capacity, c	fs:	
	eous Spillv	•			-		
Note: Res	ervoir con	tains 2 dam	s, each dam	containing	it's own outl	et.	
Average A	Annual Gro	ss FWS Fv	aporation (in	.).	40.00		
-		oss Evapora			40.00		
Oct	3.04	Feb	1.00	Jun	5.24		
Nov	1.56	Mar	1.56	Jul			
Dec	1.04	Apr	3.20	Aug			
Jan		May		Sep		Total, in:	40.00
Average I	Jonthly Pr	ecipitation (i	in ):	-			
Oct	•	Feb	0.46	Jun	1.05		
Nov		Mar	0.70	Jul			
Dec		Apr	0.95	- Aug			
Jan	0.46	May		Sep		Total, in:	9.85
Average E	EOM Conte	ents (ac-ft):		-			
Öct	N/A	Feb	N/A	Jun	N/A		
Nov	N/A	Mar	N/A	Jul	N/A		
Dec	N/A	Apr	N/A	Aug	N/A		
Jan	N/A	May	N/A	Sep	N/A	_	
Oneration	Nataa						
Operating		oir operating	a data wara	obtained: in	noundment	is in the Great	+
	Divide Ba		y uala wele	oblaineu, III	poundment		L
		0111.					

Reservoir Name:	Divide				_	
Owner/Operator:	Mr. John E	Blatt				
Storage Permit Nos	: 5365R	-		-	_	
HWL Data:	Area, ac:	133.3	Cap, ac-ft:	1,027	_Elev, ft msl:	
Permitted Uses:				Water Right	Owners:	
Use: Irr., Stock	, Dom.	1,027	ac-ft	5365R, T.J L	and & Cattle	
	-		_ac-ft			
	-		_ac-ft ac-ft			
	-		ac-ft			
Sonvice Outlet:	Tupo	Cotod 24" (	Corr Iron Di	Consoity of		
Service Outlet: Principal Spillway:	Туре: Туре:	Weir		Capacity, cfs Capacity, cfs		
Emergency Spillway	•••	WOI		Capacity, cfs		
Miscellaneous Spill						
Average Annual Gro	oss FWS Ev	aporation (ir	า.):	35.00		
Average Monthly G	ross Evapor	ration (in.):				
Oct 2.66	Feb	. ,	Jun	4.59		
Nov 1.37	Mar		Jul	5.99	_	
Dec 0.91	Apr	2.80	Aug	5.46	_	
Jan <u>0.95</u>	May	4.03	Sep	4.03	Total, in:	35.00
Average Monthly Pr	ecipitation (	(in.):				
Oct 1.80	Feb	. ,	Jun	1.70		
Nov 3.45	Mar	2.45	Jul	1.55	_	
Dec 3.70	Apr	2.12	– Aug	1.35	_	
Jan 4.06	May	2.20	Sep	1.75	Total, in:	28.88
Average EOM Cont	ents (ac-ft):					
Oct N/A	Feb		Jun	N/A		
Nov N/A	Mar		_ Jul		-	
Dec N/A	– Apr	· N/A	– Aug	N/A	_	
Jan N/A	May	v N/A	Sep	N/A	-	
Operating Notes:						
	oir operatir	ng data were	obtained. F	Releases are	made into the	Scab
Creek dra		0				
	Ŭ					
						-

Reservo	oir Name:	Eden				_	
Owner/0	Operator:	U.S. Burea	u of Reclam	ation / Eder	Nalley Irr. Di	st	
Storage	Permit Nos:	818R	-		-	-	
HWL Da	ata:	Area, ac:	1,361.85	Cap, ac-ft:	18,489.93	Elev, ft msl	6,710
Permitte Use:	ed Uses: Irr., Dom		18,489.93	ac-ft ac-ft ac-ft ac-ft ac-ft	Water Right ( 818R Eden )		
Emerge Miscella	Outlet: Il Spillway: ncy Spillway neous Spillv e this is an o	vay Info:			Capacity, cfs Capacity, cfs Capacity, cfs is no emerger	:	
-	e Annual Gro Monthly Gr		aporation (in	.):	40.00		
Average O	•	Feb	. ,	Jun	5.24		
No		 Mar		Jul	6.84	-	
De	-	Apr		Aug	6.24	-	
Ja		May		Sep		Total, in:	40.00
Average	e Monthly Pr	ecipitation (	in.):				
ŏ	•	Feb		Jun	1.01		
No	ov 0.40	Mar	0.52	Jul	0.88	-	
De	ec 0.41	Apr	0.63	Aug	0.71	-	
Ja	an 0.37	May	1.16	Sep	0.90	Total, in:	8.01
Average	e EOM Conte	ents (ac-ft):					
Õ	ct 400	Feb	1,400	Jun	5,000		
No	ov 600	Mar	1,800	Jul	3,700	-	
De	ec 1,000	Apr	2,600	Aug	1,100		
Ja	an 1,200	May	5,200	Sep	800	•	
Operati	ng Notes:	Eden Rese	ervoir is opera	ated by the	Eden Valley I	rrigation and	
					tion of Big Sa	<u> </u>	r.
					sumptive Use		

Report, 1996-2000.

Reservoir Name:	Elk Horn (L	ittle Sandy)				
Owner/Operator:	Joe Thomp	son Jr. Lives	stock Co.			
Storage Permit Nos:	1025R					
				-		
HWL Data:	Area, ac:	145.0	Cap, ac-ft:	1,450	Elev, ft msl:	
Permitted Uses: Use: Irrigation		1,450	ac-ft ac-ft ac-ft	Water Right ( 1025R, Joe T Livestock Co.	hompson Jr.	
			ac-ft ac-ft			
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw	•••	2' x 4' condu Weir	uit	Capacity, cfs Capacity, cfs Capacity, cfs	NR NR	
Average Annual Gro Average Monthly Gr Oct 2.66 Nov 1.37 Dec 0.91 Jan 0.95 Average Monthly Pre Oct 1.88 Nov 3.55 Dec 3.70 Jan 4.08 Average EOM Conte Oct N/A Nov N/A Dec N/A Jan N/A	oss Evapor Feb Mar Apr May ecipitation ( Feb Mar Apr May	ation (in.): 0.88 1.37 2.80 4.03 in.): 2.85 2.50 2.30 2.40 N/A N/A N/A	.): Jun Jul Aug Sep Jun Jul Sep Jun Jul Sep	5.99 5.46 4.03 1.75 1.55 1.45 1.85 N/A N/A N/A	Total, in: Total, in:	35.00 29.86
Operating Notes:						

Owner/Operator:         U.S. Bureau of Reclamation           Storage Permit Nos:         6629R         9502R           HWL Data:         Area, ac:         8,058         Cap, ac-ft:         345,397         Elev, ft msl         6,506           Permitted Uses:         Water Right Owners:         U.S. Bureau of Reclamation         ac-ft:         ac-ft	Reservoir Name:	Fontenelle							
HWL Data:Area, ac: $8,058$ Cap, ac-ft: $345,397$ Elev, ft msl $6,506$ Permitted Uses:Water Right Owners:U.S. Bureau of ReclamationUse:various $345,397$ ac-ftU.S. Bureau of Reclamationac-ftac-ftac-ftac-ftac-ftac-ftac-ftac-ftac-ftac-ftservice Outlet:Type:Principal Spillway:Type:east - 2 - 4'x4' conduitsCapacity, cfsPrincipal Spillway:Type:west - 2 - 4'x6' conduitsCapacity, cfsCapacity, cfs20,000Emergency Spillway Type:weirCapacity, cfs20,000Miscellaneous Spillway Info:NR = not ratedAverage Annual Gross FWS Evaporation (in.):41.33Average Monthly Gross Evaporation (in.):41.33Average Monthly Gross Evaporation (in.): $0.95$ Oct $3.14$ FebJan1.12May $4.75$ Sep $4.75$ Total, in:41.33Average Monthly Precipitation (in.): $0.95$ Nov $0.35$ May $1.07$ Sep $0.91$ Total, in:7.00Average EOM Contents (ac-ft): $0.26$ Oct $237,876$ Feb $153,123$ Jun $261,477$ Nov $225,472$ May $175,654$ Sep $251,799$ Operating Notes:Fontenelle is generally operated to maximize storage, power<	Owner/Operator:	U.S. Burea	u of Reclam	ation					
Permitted Uses:       Water Right Owners:         Use:       various       345,397 ac-ft        ac-ft      ac-ft	Storage Permit Nos:	6629R	_	9502R	2				
Permitted Uses:       Water Right Owners:         Use:       various       345,397 ac-ft       U.S. Bureau of Reclamation         ac-ft       ac-ft       ac-ft         ac-ft       ac-ft       ac-ft         ac-ft       ac-ft       ac-ft         mac-ft       ac-ft       ac-ft         ac-ft       ac-ft       ac-ft         mac-ft       Capacity, cfs       19,000         Principal Spillway: Type:       west - 2 - 4'x4' conduits Capacity, cfs       20,000         Emergency Spillway Type:       west - 2 - 4'x6' conduits       Capacity, cfs       20,000         Miscellaneous Spillway Info:       NR = not rated       1.12       May       1.75       Sep       4.75			-						
Use: various	HWL Data:	Area, ac:	8,058	Cap, ac-	ft:	345,397	Elev,	ft msl	6,506
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			345,397	-					on
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				-	-				
Service Outlet:Type:11 ft dia. conduit east - 2 - 4'x4' conduits Capacity, cfs19,000 NRPrincipal Spillway:Type:west - 2 - 4'x4' conduits east - 2 - 4'x4' conduits Capacity, cfs20,000 20,000Principal Spillway:Type:west - 2 - 4'x6' conduits Capacity, cfs20,000 20,000Miscellaneous Spillway Type:weir weirCapacity, cfs20,000 20,000Miscellaneous Spillway Info:NR = not ratedAverage Annual Gross FWS Evaporation (in.):41.33 Average Monthly Gross Evaporation (in.):41.33 7.07 0.01Oct3.14 NovFeb1.03 1.12Jun5.41 7.07 7.07Dec1.07 1.61 JulApr3.31 4.75AugAverage Monthly Precipitation (in.):0.95 0.35Total, in:41.33Average Monthly Precipitation (in.):0.95 0.65Jun0.95 0.91 0.73Total, in:Oct0.59 0.35Feb0.26 0.36Jun0.95 0.91Total, in:Nov0.35 0.35Mar0.36 0.36Jul0.73 0.63Dec0.27 0.27 JanApr0.65 0.45Aug261,477 0.65Nov225,472 0.975Mar141,568 140,839 0.92Aug262,723 251,799Operating Notes:Fontenelle is generally operated to maximize storage, power generation and flood mitigation.It also is used to maintain the aquatic and riparian					-				
Principal Spillway:Type:east - 2 - 4'x4' conduitsCapacity, cfsNRPrincipal Spillway:Type:west - 2 - 4'x6' conduitsCapacity, cfs20,000Emergency Spillway Type:weirCapacity, cfs20,500Miscellaneous Spillway Info:NR = not ratedCapacity, cfs20,500Average Annual Gross FWS Evaporation (in.):41.33Average Monthly Gross Evaporation (in.):41.33Oct $3.14$ Feb $1.03$ JunNov1.61Mar1.61JulDec $1.07$ Apr $3.31$ AugJan1.12May $4.75$ SepAverage Monthly Precipitation (in.):Oct $0.59$ FebOct $0.59$ Feb $0.26$ JunJan $0.23$ May $1.07$ SepNov $0.35$ Mar $0.36$ JulDec $0.27$ Apr $0.65$ AugJan $0.23$ May $1.07$ SepOct $237,876$ Feb $153,123$ JunDec $202,975$ Apr $140,839$ AugDec $202,975$ Apr<				-	-				
Average Monthly Gross Evaporation (in.):Oct $3.14$ Feb $1.03$ Jun $5.41$ Nov $1.61$ Mar $1.61$ Jul $7.07$ Dec $1.07$ Apr $3.31$ Aug $6.45$ Jan $1.12$ May $4.75$ Sep $4.75$ Total, in: $41.33$ Average Monthly Precipitation (in.): $0.26$ Jun $0.95$ Oct $0.59$ Feb $0.26$ Jun $0.95$ Nov $0.35$ Mar $0.36$ Jul $0.73$ Dec $0.27$ Apr $0.65$ Aug $0.63$ Jan $0.23$ May $1.07$ Sep $0.91$ Total, in:Average EOM Contents (ac-ft): $0.25,472$ Mar $141,568$ Jul $274,370$ Dec $202,975$ Apr $140,839$ Aug $262,723$ Jan $177,489$ May $175,654$ Sep $251,799$ Operating Notes:Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian	Principal Spillway: Principal Spillway: Emergency Spillway	Type: Type: Type:	east - 2 - 4' west - 2 - 4' weir	x4' condu x6' condu	its ( uits (	Capacity, Capacity,	cfs <u>N</u> cfs_20	R 0,000	
Average Monthly Gross Evaporation (in.):Oct $3.14$ Feb $1.03$ Jun $5.41$ Nov $1.61$ Mar $1.61$ Jul $7.07$ Dec $1.07$ Apr $3.31$ Aug $6.45$ Jan $1.12$ May $4.75$ Sep $4.75$ Total, in: $41.33$ Average Monthly Precipitation (in.): $0.26$ Jun $0.95$ Nov $0.35$ Mar $0.36$ Jul $0.73$ Dec $0.27$ Apr $0.65$ Aug $0.63$ Jan $0.23$ May $1.07$ Sep $0.91$ Average EOM Contents (ac-ft): $0.25,472$ Mar $141,568$ JulOct $237,876$ Feb $153,123$ Jun $261,477$ Nov $225,472$ Mar $141,568$ Jul $274,370$ Dec $202,975$ Apr $140,839$ Aug $262,723$ Jan $177,489$ May $175,654$ Sep $251,799$ Operating Notes:Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian									
Oct       3.14       Feb       1.03       Jun       5.41         Nov       1.61       Mar       1.61       Jul       7.07         Dec       1.07       Apr       3.31       Aug       6.45         Jan       1.12       May       4.75       Sep       4.75       Total, in:       41.33         Average Monthly Precipitation (in.):       Oct       0.59       Feb       0.26       Jun       0.95         Nov       0.35       Mar       0.36       Jul       0.73         Dec       0.27       Apr       0.65       Aug       0.63         Jan       0.23       May       1.07       Sep       0.91       Total, in:       7.00         Average EOM Contents (ac-ft):       Oct       237,876       Feb       153,123       Jun       261,477         Nov       225,472       Mar       141,568       Jul       274,370         Dec       202,975       Apr       140,839       Aug       262,723         Jan       177,489       May       175,654       Sep       251,799         Operating Notes:       Fontenelle is generally operated to maximize storage, power       generation and flood mitigation. It also is used	Average Annual Gro	ss FWS Ev	aporation (in	n.):		41.33			
Nov         1.61         Mar         1.61         Jul         7.07           Dec         1.07         Apr         3.31         Aug         6.45           Jan         1.12         May         4.75         Sep         4.75         Total, in:         41.33           Average Monthly Precipitation (in.):         Oct         0.59         Feb         0.26         Jun         0.95           Nov         0.35         Mar         0.36         Jul         0.73           Dec         0.27         Apr         0.65         Aug         0.63           Jan         0.23         May         1.07         Sep         0.91         Total, in:         7.00           Average EOM Contents (ac-ft):         Oct         237,876         Feb         153,123         Jun         261,477           Nov         225,472         Mar         141,568         Jul         274,370           Dec         202,975         Apr         140,839         Aug         262,723           Jan         177,489         May         175,654         Sep         251,799   Operating Notes: Fontenelle is generally operated to maximize storage, power generation and flood mitigation. It also is used to maintain the aquatic and ripar	• •		. ,						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-					
Jan       1.12       May       4.75       Sep       4.75       Total, in:       41.33         Average Monthly Precipitation (in.):       Oct       0.59       Feb       0.26       Jun       0.95         Nov       0.35       Mar       0.36       Jul       0.73         Dec       0.27       Apr       0.65       Aug       0.63         Jan       0.23       May       1.07       Sep       0.91       Total, in:       7.00         Average EOM Contents (ac-ft):       Oct       237,876       Feb       153,123       Jun       261,477         Nov       225,472       Mar       141,568       Jul       274,370         Dec       202,975       Apr       140,839       Aug       262,723         Jan       177,489       May       175,654       Sep       251,799         Operating Notes:       Fontenelle is generally operated to maximize storage, power       generation and flood mitigation. It also is used to maintain the aquatic and riparian				-	-				
Average Monthly Precipitation (in.):Oct $0.59$ Feb $0.26$ Jun $0.95$ Nov $0.35$ Mar $0.36$ Jul $0.73$ Dec $0.27$ Apr $0.65$ Aug $0.63$ Jan $0.23$ May $1.07$ Sep $0.91$ Total, in:Average EOM Contents (ac-ft): $0ct$ $237,876$ Feb $153,123$ Jun $261,477$ Nov $225,472$ Mar $141,568$ Jul $274,370$ Dec $202,975$ Apr $140,839$ Aug $262,723$ Jan $177,489$ May $175,654$ Sep $251,799$ Operating Notes:Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian				-	· -		 Total,	in:	41.33
Oct         0.59         Feb         0.26         Jun         0.95           Nov         0.35         Mar         0.36         Jul         0.73           Dec         0.27         Apr         0.65         Aug         0.63           Jan         0.23         May         1.07         Sep         0.91         Total, in:         7.00           Average EOM Contents (ac-ft):         0ct         237,876         Feb         153,123         Jun         261,477           Nov         225,472         Mar         141,568         Jul         274,370           Dec         202,975         Apr         140,839         Aug         262,723           Jan         177,489         May         175,654         Sep         251,799           Operating Notes:         Fontenelle is generally operated to maximize storage, power         generation and flood mitigation. It also is used to maintain the aquatic and riparian	Average Monthly Pre			-	• -				
Dec0.27Apr0.65Aug0.63Jan0.23May1.07Sep0.91Total, in:7.00Average EOM Contents (ac-ft):Oct237,876Feb153,123Jun261,477Nov225,472Mar141,568Jul274,370Dec202,975Apr140,839Aug262,723Jan177,489May175,654Sep251,799Operating Notes:Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian	• •		,	J	un	0.95			
Jan0.23May1.07Sep0.91Total, in:7.00Average EOM Contents (ac-ft): Oct237,876Feb153,123Jun261,477Nov225,472Mar141,568Jul274,370Dec202,975Apr140,839Aug262,723Jan177,489May175,654Sep251,799Operating Notes: Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian		Mar		-	-				
Average EOM Contents (ac-ft):         Oct       237,876       Feb       153,123       Jun       261,477         Nov       225,472       Mar       141,568       Jul       274,370         Dec       202,975       Apr       140,839       Aug       262,723         Jan       177,489       May       175,654       Sep       251,799         Operating Notes:       Fontenelle is generally operated to maximize storage, power         generation and flood mitigation.       It also is used to maintain the aquatic and riparian				-					
Oct237,876Feb153,123Jun261,477Nov225,472Mar141,568Jul274,370Dec202,975Apr140,839Aug262,723Jan177,489May175,654Sep251,799Operating Notes: Fontenelle is generally operated to maximize storage, powergeneration and flood mitigation. It also is used to maintain the aquatic and riparian	Jan <u>0.23</u>	May	1.07	_ S	ep_	0.91	Total,	in:	7.00
Nov225,472 202,975Mar141,568 4prJul274,370 262,723Jan177,489May175,654Sep262,723 251,799Operating Notes:Fontenelle is generally operated to maximize storage, power generation and flood mitigation. It also is used to maintain the aquatic and riparian	Average EOM Conte	ents (ac-ft):							
Dec       202,975       Apr       140,839       Aug       262,723         Jan       177,489       May       175,654       Sep       251,799         Operating Notes:       Fontenelle is generally operated to maximize storage, power generation and flood mitigation. It also is used to maintain the aquatic and riparian		Feb	153,123						
Jan       177,489       May       175,654       Sep       251,799         Operating Notes:       Fontenelle is generally operated to maximize storage, power         generation and flood mitigation.       It also is used to maintain the aquatic and riparian	Nov 225,472	Mar		-	Jul _				
Operating Notes: Fontenelle is generally operated to maximize storage, power generation and flood mitigation. It also is used to maintain the aquatic and riparian					· -				
generation and flood mitigation. It also is used to maintain the aquatic and riparian	Jan <u>177,489</u>	May	175,654	<u> </u>	ep_	251,7	99		
	Operating Notes:	Fontenelle	is generally	operated	to r	naximize	storage, j	power	
habitat at Sandakadaa Wildlifa Bafuga Balaasaa ara turiaallu 1 200 ta 1 400 ofa fram									

habitat at Seedskadee Wildlife Refuge. Releases are typically 1,200 to 1,400 cfs from August to April. During spring runoff, releases are increased to maintain reservoir pool elecation increases to 1 to 2 feet daily. The maximum elevation target is 6,506 feet, or 345,000 AF in storage. The operator (Bureau) endeavors to keep release peaks below inflow peaks, which average about 11,000 cfs. After spring runoff ceases and peak storage is met, releases are again set back to 1,200 to 1,400 cfs.

Reservoir Name:	Fremont L	ake			_	
Owner/Operator:						
Storage Permit Nos	4452R		4453R		-	
	4465R	_	8937R	-		
HWL Data:	Area, ac:	5,400	Cap, ac-ft:	30,899.44	Elev, ft msl	7,411.45
Permitted Uses:				Water Right	Owners:	
Use:	-		_ac-ft			
	-		_ac-ft			
	-		_ac-ft			
	-		_ac-ft			
	-		_ac-ft			
Service Outlet:	Type:	gated		Capacity, cfs	NR	
Principal Spillway:	Type:	weir/flashb	oards	Capacity, cfs		
Emergency Spillway				Capacity, cfs		
Miscellaneous Spillv		Entire dam	and control	works act as		nd
emergency spillway	•					
into the face of the c		0		0		
Average Annual Gro	ss FWS E	aporation (in	n.):	35.90		
Average Monthly Gr	oss Evapor	ration (in.):				
Oct 2.73	Feb	. ,	Jun	4.70		
Nov 1.40	Mar	1.40	Jul	6.14	-	
Dec 0.93	- Apr	2.87	Aug	5.60	-	
Jan 0.97	May	4.13	Sep	4.13	Total, in:	35.90
Average Monthly Pr	ecipitation (	(in.):				
Oct 0.95	Feb		Jun	1.35		
Nov 1.20	Mar		Jul		-	
Dec 1.20	 Apr		Aug		-	
Jan 1.38	 May		Sep		Total, in:	14.99
Average EOM Conte	- onte (ac_ft):		_		-	
Oct N/A	Feb		Jun	N/A		
Nov N/A	Mar		Jul	<b>N</b> 1/A	-	
Dec N/A	Apr		– Aug		-	
Jan N/A	 May		_ Sep		-	
					-	
Operating Notes:	Highland I	rrigation Dist	trict is the op	erator of the	dam. Operat	ing
procedures are as for	ollows: Beg	ginning Nov.	1 each year	, inflow bypas	ses are adjus	sted
in an effort to satisfy	storage rig	phts while ma	aintaining a r	reasonable fis	hery in Pine	
Creek below the dar	n.During sp	oring runoff, i	inflows will b	e used to me	et storage rig	hts as
well as downstream	irrigation ri	ghts. Otherw	ise endeavo	or to operate t	he reservoir s	such
that all rights, even t						
affected in times of						ectly
into the Highland an	d Fremont	Irrigation Ca	nals or retur	ned to Pine C	reek.	

Reservoir	Name:	Hay				_	
Owner/Op	perator:	Sweetwate	er Cattle Com	npany		_	
Storage F	Permit Nos	: 547R		2339R		-	
-			-		-		
HWL Data	a:	Area, ac:	1,036.6	Cap, ac-ft:	5,847	Elev, ft msl:	
Permitted	Uses:				Water Right	Owners:	
Use:	Irr, Stock	_	2,480		547R, Sweet	water Cattle	
	Irr, Stock	-	3,363	-		39R, Sweetwa	ater
		_		ac-ft	Cattle Compa	any	
		-		_ac-ft			
		-		ac-ft			
Service C	utlet:	Type:	2'3"x2'0" Co	onc Culvert	Capacity, cfs	NR	
Principal		Type:	Weir		Capacity, cfs		
•	cy Spillway	• •			Capacity, cfs		
	eous Spillv						
Averade		See FWS FV	aporation (in	· )·	44.50		
-					44.50		
Average i Oct	•	oss Evapor Feb	. ,	Jun	5.83		
Nov		Mar		Jul		-	
Dec		Apr		Aug		-	
Jan		May		Sep		Total, in:	44.50
	ļ.	-					
Average i Oct	•	ecipitation ( Feb		Jun	0.95		
Nov		Mar		Jul		-	
Dec		Apr		Aug		-	
Jan		May		Sep		Total, in:	8.89
	-	-	1120	<u> </u>			0.00
•		ents (ac-ft):	N/A	lun	NI/A		
Oct Nov		_ Feb Mar		Jun Jul		-	
Dec		Apr		Aug	N/A	-	
Jan	N/A	May		Sep		-	
oun	1 1/7 (					-	
Operating	Notes:						

Reservoir Na	me:	High Save	ry				
Owner/Opera	ator:	State of W	yoming-Wate	er Developr	nent Commiss	sion	
Storage Pern	nit Nos	: 11472R	_	11473R	_		
HWL Data:		Area, ac:	- 482.3	_Cap, ac-ft:	22,432.90	Elev, ft msl	7,305
Permitted Us Use: ina	es: ictive		47.7	ac-ft	Water Right State of Wvo	Owners:	
		fisheries	5,724	-		t Commission	)
	ın. & er	-	1,000				
	& rec.	-	15,661.2				
	od pool	-	7954.2	-			
Service Outle Principal Spil		Туре: Туре:	48 inch con concrete ch		Capacity, cfs Capacity, cfs		
Emergency S	-	•••	earthen - ex		Capacity, cfs	· · · · · · · · · · · · · · · · · · ·	
Miscellaneou		••					
Average Ann				n.):	45.10		
Average Mon	-				5.0		
Oct	3.7	- Feb		_ Jur		-	
Nov Dec	1.6 1.2	Mar		Ju	-	-	
Jan	1.2	_ Apr May		Aug Sep		Total, in:	45.10
Average Mon		-	-			_ · · · · · · · · ·	
-	1.60	Feb		Jur	1.40		
	1.00	Mar		Ju		_	
	1.20	Apr		Aug		-	
	1.10	May		Sep		Total, in:	15.10
Average EON	A Conte	- ents (ac-ft):		_		-	
-	N/A	Feb		Jur	N/A		
Nov	N/A	- Mar		_ Ju		_	
Dec	N/A	 Apr		- Aug		_	
Jan	N/A	May		Sep		_	
		· ·			ompleted Nov		
					F yield of late		
					he reservoir a		
					nactive fisheri		
					environment		
					he reservoir e		

15th to September 30th.

Reservoir Name:	Kemmerer	No. 1			_
Owner/Operator:	City of Ken	nmerer			_
Storage Permit Nos:	5302R		9776R		
HWL Data:	Area, ac:	182.93	Cap, ac-ft:	1,768.78	Elev, ft msl 7,145.90
Permitted Uses:				Water Right	Owners:
Use: M&I		1,025.00	ac-ft	5302R	
M&I		710.78	ac-ft	9776R	
inactive		33.00	ac-ft		
			ac-ft		
	-		ac-ft		
Service Outlet:	Туре:	2 - 36" CMF	9 w/ 28" line	Capacity, cfs	s 185
Principal Spillway:	Туре:	weir		Capacity, cfs	5 1,120
<b>Emergency Spillway</b>	Туре:	weir		Capacity, cfs	5 27,000
Miscellaneous Spillv	vay Info:	Emergency	spillway cap	pacity include	s principal spillway.
		Liners inside	e service pip	pes are HDPE	

Average Annual Gross FWS Evaporation (in.):

38.63

•		•	•	,				
Average M	onthly Gro	oss Evaporatio	on (in.):					
Oct	2.94	Feb	0.97	_	Jun	5.06		
Nov	1.51	Mar	1.51		Jul	6.61		
Dec	1.00	Apr	3.09		Aug	6.03		
Jan	1.04	May	4.44	_	Sep	4.44	Total, in:	38.63
Average M	onthly Pre	ecipitation (in.)	:					
Oct	0.84	Feb	0.65	_	Jun_	1.15	_	
Nov	0.87	Mar	0.73		Jul	0.82		
Dec	0.75	Apr	0.96		Aug	0.91		
Jan	0.69	May	1.22	_	Sep	1.19	Total, in:	10.78
Average E	OM Conte	ents (ac-ft):						
Oct	N/A	Feb	N/A		Jun	N/A		
Nov	N/A	Mar	N/A		Jul	N/A		
Dec	N/A	Apr	N/A		Aug	N/A		
Jan	N/A	May	N/A	_	Sep	N/A	_	

Operating Notes: This reservoir serves the City of Kemmerer. The reservoir itself used to be the point of diversion for the city treatment plant; however operational changes are such that the city now diverts from the Hams Fork River downstream of the reservoir. There are no special operating criteria for this reservoir, it is typically operated as a flow-through structure with little, if any changes made to the gate settings.

Reservoir	·Name:	McNinch N	lo. 1				_	
Owner/Op	perator:	E.W. McNi	nch and Lois	C. McNi	inch	ı	_	
Storage F	Permit Nos:	5413R	_	5801F	२		-	
			_					
HWL Data	a:	Area, ac:	107.0	Cap, ac	-ft:	1,086	Elev, ft msl:	
Permitted	Uses:					Water Right	Owners:	
Use:	Irr., Stock	, Dom.	1,086	-		5801R, E.W.	& Lois C. M	cNinch
		-		ac-ft				
		-		ac-ft				
		-		ac-ft ac-ft	•			
o · o		-		-		0 4 6		
Service C Principal		Type: Type:	Gated 18" C Weir	IMP		Capacity, cfs Capacity, cfs		
	spiilway. cy Spillway		weii		_	Capacity, cfs		
	eous Spillv					Capacity, cis	<u> </u>	
Average	Annual Gro	oss FWS Fv	vaporation (in	).		38.95		
-		oss Evapor				00.00		
Oct	•	Feb	. ,	J.	un	5.10		
Nov		Mar		-	Jul	6.66	-	
Dec		Apr		-	ug	6.08	-	
Jan	1.05	May			ер	4.48	Total, in:	38.95
Average I	Monthly Pr	ecipitation (	in.):					
Oct	-	Feb		J	un	1.01		
Nov	0.60	Mar	0.55	- ,	Jul	0.89	-	
Dec	0.52	Apr	0.69	A	ug	0.89		
Jan	0.52	May	1.17	S	ер	0.97	Total, in:	8.86
Average I	EOM Conte	ents (ac-ft):						
Öct		Feb	N/A	J	un	N/A		
Nov	N/A	Mar	N/A	-	Jul	N/A	-	
Dec	N/A	Apr	N/A	A	ug	N/A		
Jan	N/A	May	N/A	S	ер	N/A	<u>-</u>	
•				_				
Operating						e storage rese		
operation	OF WHICH IS	s at the whil	n or the own	er. Sour	ces	of supply are	e ine numero	us

springs and draws tributary to North Piney Creek as outlined in the Tabulation of Adjudicated Water Rights.

Reservoir Name:	McNinch N	lo. 2			_	
Owner/Operator:	E.W. McNi	inch and Lois	SC. McNincl	h	_	
Storage Permit Nos	: 5412R	_		_		
		-		-		
HWL Data:	Area, ac:	26.4	Cap, ac-ft:	198	Elev, ft msl:	
Permitted Uses:				Water Righ	t Owners:	
Use: Irr., Stock	, Dom.	198	ac-ft	5412R, E.V	V. & Lois C. Mo	Ninch
	-		_ac-ft			
	-		_ac-ft			
	_		_ac-ft ac-ft			
	-		-			
Service Outlet:	Type:	18" Cast Irc	on Pipe	Capacity, c		
Principal Spillway:	Type:	Weir		Capacity, c		
Emergency Spillway Miscellaneous Spilly				Capacity, c	IS:	
Miscellarieous Spilly	way mio.					
Average Annual Gro			ı.):	38.96		
Average Monthly Gr		. ,				
Oct <u>2.96</u>	_ Feb		_ Jun		_	
Nov <u>1.52</u>	_ Mar		Jul		_	
Dec <u>1.01</u> Jan 1.05	_ Apr May		_ Aug Sep	<u>6.08</u> 4.48	Total, in:	38.96
	-					
Average Monthly Pr Oct 0.58	Feb	. ,	Jun	1.01		
Nov 0.60	Mar		Jul		_	
Dec 0.52	Apr		Aug			
Jan 0.52	May		Sep		Total, in:	8.86
Average EOM Cont	-		- ·			
Oct N/A	Feb		Jun	N/A		
Nov N/A	Mar		Jul	N/A	_	
Dec N/A	Apr		- Aug		_	
Jan N/A	May		Sep			
			-			
Operating Notes:		nch Reservoi		<u> </u>		
operation of which is						us
springs and draws t	ributary to N	North Piney C	Creek as out	lined in the	Tabulation of	

Adjudicated Water Rights.

Reservoir	Name:	Meeks Cal	bin			-	
Owner/Op	perator:	U.S.Burea	u of Reclama	tion/Bridge	r Valley Wate	r Conservatio	on Dist.
Storage F	Permit Nos:	6276R	-	5547R	-		
HWL Data	a:	Area, ac:	326.6	Cap, ac-ft:	16,301.50	Elev, ft msl	8,740.0
Permitted Use:	Uses: Irr. Irr., Stock	, Power	16,301.50 17,269.50		Water Right 6276R U.S. Reclamation of Reclemation	Bureau of 5547R U.S.	Bureau
			concrete line	ed channel	Capacity, cfs Capacity, cfs Capacity, cfs	:	
•		oss FWS Ev oss Evapor	vaporation (in	.):	35.00		
Oct Nov Dec Jan	2.66 1.37 0.91	Feb Mar Apr May	0.88 1.37 2.80	Jun Jul Aug Sep	5.99 5.46	Total, in:	35.00
Average I Oct Nov Dec Jan	2.25 1.85 1.78	ecipitation ( Feb Mar Apr May	1.85 2.80 2.85	Jun Jul Aug Sep	1.50 1.75	Total, in:	24.83
Average I Oct Nov Dec Jan Operating	8,950 9,270 9,760 10,170	Apr May	11,290 18,070 >16,300	Sep	>16,300	- - -	ter
Conserva	tion Distric	t on a call b	basis.District	members a	re provided w	ater upon de	
usually af	ter their re	quirements	cannot be m	et from dire	ect flow water	rights due to	

recession of the runoff. Typically about 30 percent of the annual reservoir demand is used prior to the hay cutting (July 24, in a typical year), with the remainder used in the fall to fill the soil profile. Meeks Cabin Reservoir has a 10-cfs minimum by-pass amount.

Reservoir Name:	Middle Pin	еу				
Owner/Operator:	USDA For	est Service				
Storage Permit Nos	3578R	_		_		
HWL Data:	Area, ac:	164.6	Cap, ac-ft	4,201	Elev, ft msl	:
Permitted Uses: Use: Irr, Stock,	Dom -	4,201	ac-ft ac-ft ac-ft ac-ft ac-ft		ght Owners: SDA Forest Se	
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillv	•••	Gated 24" a Weir	nd 42" CM	ECapacity, Capacity, Capacity,	cfs 603	
Average Annual Gro		•	.):	37.75		
Oct 2.87 Nov 1.47 Dec 0.98 Jan 1.02	Feb Mar Apr May	0.94 1.47 3.02	Jur Ju Aug Sep	6.46 5.89	 Total, in:	37.75
Average Monthly Pr Oct 2.30 Nov 5.75 Dec 6.25 Jan 6.75	•	in.): 5.00 4.00 2.82	Jur Jur Ju	1.85 1.50 1.55	  Total, in:	42.82
Average EOM Conte Oct N/A Nov N/A Dec N/A Jan N/A		N/A N/A N/A	Jur Jur Ju Aug Sep	n N/A I N/A g N/A	rotal, in.	72.02
Operating Notes: storage rights aband	doned and a	all interest in	the reservo	oir has beer	0	

Forest Service. The State Engineer's Office reports that operation of the reservoir is essentially unmanaged, and that the discharge gates are simply left wide open.

Reservoir Name:	New Fork I	_ake				
Owner/Operator:					_	
Storage Permit Nos:	480R	-		_	-	
		-				
HWL Data:	Area, ac:	1,416	Cap, ac-ft:	20,340	Elev, ft msl	7,819
Permitted Uses: Use: Irr		1,416	ac-ft ac-ft ac-ft ac-ft	Water Right New Fork La	Owners: ake Irrigation I	District
			ac-ft			
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw	•••	3 gated cone	crete condu	Capacity, cfs Capacity, cfs Capacity, cfs	s:	
Average Annual Gro	ss FWS Ev	aporation (in	.):	35.00		
Average Monthly Gr	oss Evapor	ation (in.):				
Oct 2.66	Feb	0.88	Jun	4.59	_	
Nov 1.37	Mar	1.37	Jul	5.99	_	
Dec 0.91	Apr		Aug		_	
Jan <u>0.95</u>	May	4.03	Sep	4.03	Total, in:	35.00
Average Monthly Pre	ecipitation (	in.):				
Oct 1.45	Feb	2.38	Jun	1.45		
Nov 2.85	Mar	2.00	Jul	1.45	_	
Dec 3.25	Apr	1.85	Aug	1.35	_	
Jan <u>3.45</u>	May	1.95	Sep	1.48	Total, in:	24.91
Average EOM Conte	ents (ac-ft):					
Oct N/A	Feb	N/A	Jun	N/A		
Nov N/A	Mar		Jul	N/A	-	
Dec N/A	Apr	N/A	Aug	N/A	-	
Jan N/A	May		Sep	N/A	_	
Operating Notes:	New Fork I	_ake is owne	d and opera	ated by the N	ew Fork Lake	

Irrigation District. It is operated primarily as an irrigation storage reservoir. Runoff is stored in the reservoir until elevation 38.0 is exceeded, at which point water will begin to flow through the spillway. Release of water through the outlet is dependent on manual operation of three (3) slide gates, and is governed by irrigation needs and adjudicated water rights. There is no major District canal or ditch which is fed by the reservoir; the New Fork River itself is the primary conveyance with individual irrigators diverting directly from there.

Reservoir Name:	Pacific Rese	ervoir No. 1				
Owner/Operator:						
Storage Permit Nos:	4025R			_		
HWL Data:	Area, ac:	23.27	Cap, ac-ft		<u>.91</u> Elev, ft msl	7220 +/-
Permitted Uses: Use: Irr, Stock	·	106.91	ac-ft ac-ft ac-ft ac-ft ac-ft	Water Rig	ht Owners:	
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw				Capacity, Capacity, Capacity,	cfs:	
Average Annual Gro	oss FWS Eva	poration (in	.):	35.00		
Average Monthly Gr Oct 2.66 Nov 1.37 Dec 0.91 Jan 0.95			َ Jur Ju Auر Sep	1 5.99 g 5.46	Total, in:	35.00
Average Monthly Pro Oct 0.75 Nov 0.75 Dec 0.75 Jan 0.75			Jur Ju Aug Sep	n <u>1.50</u> I <u>1.00</u> g 0.75	Total, in:	11.50
Average EOM Conte Oct N/A Nov N/A Dec N/A Jan N/A	ents (ac-ft): Feb Mar Apr May	N/A N/A N/A N/A	Jur Ju Aug Sep	I N/A g N/A		
Operating Notes:					-	

Reservoir Name:		Pacific Rese	ervoir No. 2					
Owner/Op	erator:							
	ermit Nos:	4026R					-	
					_			
HWL Data	a:	Area, ac:	257.88	Cap, ac-f	t:	1,394.21	Elev, ft ms	17010 +/-
Permitted	Uses:				,	Water Right	Owners:	
Use:	Irr, Stock		106.91	ac-ft	_			
		· _		ac-ft	-			
		· –		ac-ft	-			
		· –		ac-ft ac-ft	-			
					-			
Service O		Туре:				Capacity, cfs		_
Principal S		Type:				Capacity, cfs		_
	y Spillway ous Spillw					Capacity, cfs	S:	_
wiscellane	eous Spille	ay 1110.						
<b>A</b>				``		00.00		
Average A	Annual Gro	ss FWS Eva	iporation (in	.):		38.00		
		oss Evapora						
Oct	2.89	Feb	0.95	Ju		4.98	_	
Nov	1.48	Mar_	1.48		ul_	6.50	-	
Dec	0.99	Apr_	3.04	Au		5.93		20.00
Jan	1.03	May	4.37	Se	эр <u>-</u>	4.37	Total, in:	38.00
	•	ecipitation (ir						
Oct	0.60	Feb_	0.55	Ju	-	1.30	_	
Nov	0.60	Mar_	0.80	-	ul_	0.90	-	
Dec	0.60	Apr_	1.00	Au		0.60		
Jan	0.60	May	1.20	Se	эр _	0.90	Total, in:	9.65
Average E	EOM Conte	ents (ac-ft):						
Oct	N/A	Feb	N/A	Ju	In_	N/A	_	
Nov	N/A	Mar	N/A	J	ul	N/A	_	
Dec	N/A	Apr	N/A	Au	ıg <sup>–</sup>	N/A	-	
Jan	N/A	May	N/A	Se	p_	N/A	-	
Operating	Notes:							

Reservoir Name:		Paterson La	ake				-	
Owner/Operator:		Famer's Lar	nd and Lives	stock C	omp	any		
Storage	Permit Nos:	433R					_	
HWL Da	ta:	Area, ac:	200.0	Cap, a	c-ft:	1,874	Elev, ft msl:	
Permitte	d Uses:					Water Right	Owners:	
Use:	Irr, Dom,	HydroPowe	1,874	-			er's Land & Liv	/estock
				ac-ft		Co.		
				ac-ft ac-ft				
				ac-ft				
Service	Outlet:	Type:				Capacity, cfs	5	
	Spillway:	Type:				Capacity, cfs		
•	icy Spillway					Capacity, cfs		
Miscellar	neous Spillv	vay Info:						
Average	Annual Gro	oss FWS Eva	poration (in	.).		41.02		
-		oss Evapora				41.02		
Oc	•	Feb	1.03		Jun	5.37		
No		Mar	1.60	-	Jul		-	
De	-	Apr	3.28	-	Aug	6.40	-	
Jai	า 1.11	May	4.72	_	Sep	4.72	Total, in:	41.02
Average	Monthly Pr	ecipitation (ir	า.):					
Õc	•	Feb	0.31	_	Jun	1.11	_	
No	/ 0.48	Mar	0.52	-	Jul	0.90	_	
De		Apr	0.86	-	Aug		_	
Jai	n <u>0.36</u>	May	1.15	-	Sep	0.95	Total, in:	8.80
Average	EOM Conte	ents (ac-ft):						
Oc	t <u>N/A</u>	Feb	N/A	_	Jun	N/A	_	
No		Mar	N/A	_	Jul		_	
De		Apr	N/A	-	Aug	N/A	_	
Jai	n <u>N/A</u>	May	N/A	-	Sep	N/A	-	
Operatin	g Notes:							

Reservoir Name:	Silver Lake	;			_	
Owner/Operator:	Silver Lake	Reservoir C	Company		_	
Storage Permit Nos	3790R		5769R			
				_		
HWL Data:	Area, ac:	180.0	Cap, ac-ft	2,152	Elev, ft msl:	
Permitted Uses: Use: Irrigation Irr, Stock			ac-ft ac-ft ac-ft ac-ft ac-ft		er Lake Reser 69R, Silver L	
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw		Gated 30" C Weir	CMP	_Capacity, cfs _Capacity, cfs _Capacity, cfs	5 784	
Average Annual Gro Average Monthly Gr Oct 2.66 Nov 1.37 Dec 0.91 Jan 0.95		ation (in.): 0.88 1.37 2.80	n.): Ju Ju Aug Sep	l 5.99 5.46	- - Total, in:	35.00
Average Monthly Pr Oct 1.85 Nov 3.70 Dec 4.10 Jan 4.30	ecipitation( Feb Mar Apr May	in.): 3.10 2.50 2.25	Jur Ju Auç Sep	n 1.75 I 1.65 g 1.40	Total, in:	30.65
Average EOM Conte Oct N/A Nov N/A Dec N/A Jan N/A Operating Notes:	ents (ac-ft): Feb Mar Apr May	N/A N/A N/A N/A	Jur Ju Aug Sep	I N/A g N/A	-	

Reservoir Name:	Sixty Seve	n				
Owner/Operator:	Mr. Jay Do	ownes				
Storage Permit Nos	535R	-	2878R	_		
HWL Data:	Area, ac:	333.0	Cap, ac-f	t: 4,32	9Elev, ft msl:	
Permitted Uses: Use: <u>Stock, Do</u> Stock, Do		3,376 953	ac-ft ac-ft ac-ft ac-ft ac-ft	535R, P	ight Owners: erry W. Jenkins Perry W. Jenkins	
Service Outlet: Principal Spillway: Emergency Spillway Miscellaneous Spillw		2 x 16" CIP Weir		Capacity Capacity Capacity	, cfs NR	
Average Annual Gro Average Monthly Gr Oct 2.98 Nov 1.53 Dec 1.02 Jan 1.06	oss Evapor Feb Mar Apr	ation (in.): 0.98 1.53 3.13	Ju Ju Au	ul <u>6.70</u> g <u>6.11</u>	3 )	39.18
Jan <u>1.06</u> Average Monthly Pr Oct <u>0.58</u> Nov <u>0.60</u> Dec <u>0.52</u> Jan <u>0.52</u>	May ecipitation ( Feb Mar Apr May	in.): 0.47 0.55 0.69	Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju J	n <u>1.01</u> ul <u>0.89</u> g <u>0.89</u>	) )	8.86
Average EOM Contro Oct N/A Nov N/A Dec N/A Jan N/A	Feb Mar Apr May	N/A N/A N/A	Ju Ju Au Se	ul N/A g N/A p N/A	<u>.</u>	hich is

at the whim of the owner.

Reservoir Name:	State Line			-	
Owner/Operator:	U.S.Bureau of Red	clamation/Bridge	er Valley Wate	r Conservatio	n Dist.
Storage Permit Nos	:Utah Permit		_		
HWL Data:	Area, ac:	Cap, ac-ft		Elev, ft msl:	
Permitted Uses:			Water Right	Owners <sup>.</sup>	
Use:		ac-ft	Water rught		
	-	ac-ft			
Service Outlet:	Туре:		Capacity, cfs		
Principal Spillway:			Capacity, cfs		
Emergency Spillway Miscellaneous Spillw			_Capacity, cfs		
Average Annual Gro Average Monthly Gr Oct 2.58 Nov 1.33 Dec 0.88	ross Evaporation (ir Feb 0.8 Mar 1.3 Apr 2.7	n.): 35 Jui 3 <u>3 Ju</u> 7 <u>2 Au</u> g	ll 5.81 g 5.30	- - -	
Jan <u>0.92</u>	May3.9	0 <u>1</u> Se	o <u>3.91</u>	Total, in:	34.00
Average Monthly Pr					
Oct	Feb	Ju		-	
Nov	Mar		۱۱ ~	-	
Dec Jan	Apr		g	Total, in:	0.00
	May	3e	o	10(a), 11.	0.00
Average EOM Conte	. ,				
Oct N/A	Feb N/			-	
Nov <u>N/A</u>	MarN/			-	
Dec N/A	AprN/			-	
Jan N/A	May N/	A Se	D N/A	-	
Operating Notes:	State Line Reserv	oir is operated b	y the Bridger \	/alley Water	

Conservation District on a call basis.District members are provided water upon demand, usually after their requirements cannot be met from direct flow water rights due to recession of runoff. Typically about 30 percent of the annual reservoir demand is used prior to the hay cutting (July 24, in a typical year), with the remainder used in the fall to fill the soil profile. In addition, municipal supplies are provided from June through September each year by agreement between the District and the Lyman-Fort Bridger Joint Powers Board. The State Line Reservoir has a 7-cfs minimum by-pass amount.

Reservoir Name: Viva Naugh		hton				
Owner/Operator:	Naughton	Power Plant	(Scottish Po	ower)		
Storage Permit Nos:	6418R 7599R**	-	7476R*	* 3,072 AF Con ** = not constru		
HWL Data:	Area, ac:	1458.18	Cap, ac-ft:	45,465 EI	ev, ft msl <u>7,240</u>	
Permitted Uses: Use: Ind, 6418 Ind, 7476	•	<u>42,393</u> 3,072		Water Right Ow assigned to Pac		
Service Outlet: Type: Principal Spillway: Type: Emergency Spillway Type: Miscellaneous Spillway Info:		i i		Capacity, cfs <u>840 (740 +</u> 100) Capacity, cfs <u>12,000 tota</u> l Capacity, cfs <u></u>		

Average Annual Gross FWS Evaporation (in.):

38.54

•		•	•	,				
Average M	onthly Gr	oss Evaporatio	on (in.):					
Oct	2.93	Feb	0.96		Jun	5.05		
Nov	1.50	Mar	1.50		Jul	6.59		
Dec	1.00	Apr	3.08		Aug	6.01		
Jan	1.04	May	4.43	_	Sep	4.43	Total, in:	38.54
Average M	onthly Pre	ecipitation (in.)	:					
Oct	0.84	Feb	0.65		Jun	1.15		
Nov	0.87	Mar	0.73		Jul	0.82		
Dec	0.75	Apr	0.96		Aug	0.91		
Jan	0.69	May	1.22	_	Sep	1.19	Total, in:	10.78
Average E	OM Conte	ents (ac-ft):						
Oct	N/A	Feb	N/A		Jun	N/A		
Nov	N/A	Mar	N/A		Jul	N/A		
Dec	N/A	Apr	N/A		Aug	N/A	_	
Jan	N/A	May	N/A	_	Sep	N/A		

Operating Notes: Viva Naughton is operated to provide a continuous supply of 25 cfs for cooling water to the Naughton Power Plant. The reservoir is sized to provide this amount undera 2-year drought scenario. Irrigation is not explicitly permitted in the reservoir's water right, but prior rights are bypassed and water for irrigation is released from storage for downstream irrigators if water supplies are sufficient. Flood control is also not explicitly stated in the permit, but the reservoir can and has been operated to reduce flooding effects downstream.

Reservoir	Name:	Willow Lak	e			-	
Owner/Op	erator:	Binning et	al.			_	
Storage P	ermit Nos:	3831R 6257R	-	4475R			
HWL Data	a:	Area, ac:	1,958	Cap, ac-ft:	22,630	Elev, ft msl	7,700
Permitted Uses: Use: Irr., Stock, Dom		, Dom.	15,120	ac-ft	Water Right 3831R	Owners: Binning	
	Irr., Stock	-	3,696		4475R	Binning et al	
	Irr., Stock	, Dom.	3,814	ac-ft	6257R	Binning et al	
				ac-ft		-	
				ac-ft			
Service Outlet: Type: Principal Spillway: Type: Emergency Spillway Type:			Gated Outle Weir Weir	t	Capacity, cfs <u>NR</u> Capacity, cfs <u>625</u> Capacity, cfs:		
Miscellaneous Spillway Info:			Drawings only define one spillway which apparently				v
	•	•	nergency spill	2			J
				,			

Average Annual Gross FWS Evaporation (in.):

Average Monthly Gross Evaporation (in.):

35.03

Average in		vaporat	1011 (111.).				
Oct	2.66	Feb	0.88	Jun	4.59		
Nov	1.37	Mar	1.37	Jul	5.99	_	
Dec	0.91	Apr	2.80	Aug	5.46	_	
Jan	0.95	May	4.03	Sep	4.03	Total, in:	35.03
Average M	onthly Precipita	ation (in	.):			_	
Oct	1.20	Feb	1.45	Jun	1.40	_	
Nov	1.82	Mar	1.20	Jul	1.35	_	
Dec	1.82	Apr	1.40	Aug	1.25	_	
Jan	2.00	May	1.85	Sep	1.45	Total, in:	18.19
Average E	OM Contents (a	ac-ft):					
Oct_	33,695	Feb_	29,293	Jun	42,618		
Nov	32,735	Mar	27,235	Jul	39,724	_	
Dec	31,638	Apr	29,129	Aug	36,866	_	
Jan	30,530	May	38,580	Sep	34,601	_	
_						_	

Operating Notes: Willow Lake is operated primarily for irrigation. The lake ownership, unique to the area, is divided into "shares," the majority of which are owned by the Binning family. The operational and maintenance history of the reservoir is incomplete. The 2nd enlargement is unadjudicated with some information that the first two permits are not fully built. Reservoir: Big Sandy

From Williams (1995):

	, , , , , , , , , , , , , , , , , , ,		
Elevation	Area	Capacity	
(ft)	(ac)	(AF)	
6,697	1.0	0	
6,700	6.0	10	
6,705	25.0	85	
6,710	71.0	315	
6,715	108.0	765	
6,720	161.0	1,425	
6,725	246.0	2,425	
6,730	381.0	3,970	
6,735	605.0	6,390	
6,740	874.0	10,080	
6,745	1,357.0	15,490	
6,750	1,823.0	23,580	
6,755	2,261.0	33,780	
6,757.5	2,504.5	39,700	Spillway Elevation
6,760	2,748.0	46,330	
6,762.8	3,057.12	54,400	
			-

Reservoir:	Black Joe Lake

Elevation	Area	Capacity	Total
(ft)	(ac)	(AF)	(AF)
31.7	79.36		0
		268.29	
35	83.24		268.29
		441.67	
40	93.43		709.96
		391.84	
44	102.49		1,101.8

# Reservoir: Boulder Lake

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
98	1,540			
		1,546	3,092	
100	1,552			3,092
		1,612	8,060	
105	1,673			11,152
		1,685	5,055	
108	1,698			16,207

Area-Capacity Characteristics as reported on Enl. Permit:

Elevation	Area	Average	Capacity
(ft)	(ac)	(ac)	(AF)
7,275.4	1,464.0		
		1,509.5	6,844
7,280	1,555.0		
		1,585.0	7,925
7,285	1,615.0		
		1,621.75	1,338
7,285.825	1,628.5		
Tota	al Cap. Perr	nit 4038R	16,207
7,285.825	1,628.5		
		1,652.5	6,073
7,289.5	1,676.5		
Tot	al Enlargec	I Capacity	22,280

# From Williams (1995):

Elevation	Area	Capacity	
(ft)	(ac)	(AF)	
7,275.5	1,462.5	0	
7,280	1,555	6,900	
7,285	1,622.5	14,850	
7,289.5	1,677	22,280	Spillway Elevation
7,290	1,680	23,950	
7,295	1736.25	31,650	
7,298.5	1,775	37,800	

# Reservoir: Bush Creek

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
100	0			0
		826.382	1,239.573	
102	1,652.764			1,239.57
		1,716.41	6,007.417	
105	1,780.045			7,246.99
		2,204.67	9,859.661	
110	2,629.243			17,106.7

# Reservoir: Divide

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
0	124.24			0
		126.16	504.64	
4	128.08			504.64
		130.68	522.72	
8	133.28			1,027.36

# Reservoir: Eden

From Williams (1995):

	、 ,		_
Elevation	Area	Capacity	
(ft)	(ac)	(AF)	
6,696	6	0	
6,698	397	403	
6,700	509	1,308	
6,702	607	2,424	
6,704	687	3,718	
6,706	780	5,185	
6,708	868	6,834	
6,710	963	8,665	
6,712	1,049	10,677	
6,714	1,120	12,845	
6,716	1,197	15,161	
6,718	1,261	17,619	
6,720	1,329	20,209	Spillway Elevation
6,722	1,390	22,550	
6,724	1,450	25,350	
6,726	1,518	28,050	
6,728	1,580	29,850	

Maior	Reservoir	Information	Appendix	А
major		mormation	rependix	

# Reservoir: Fontenelle

Elevation	Area	Capacity				
(ft)	(ac)	(AF)	Appropriation			
6,390	0	0				
6,395		0	Inactive Cap (Dead			
6,400	19	28	Storage) 563 af, Permit			
6,405	78	256	6629R			
6,408	128	563				
6,410	168	858				
6,415	257	1,894				
6,420	429	3,569				
6,425	717	6,378				
6,430	1,160	10,999	Active Conseits 154 594			
6,435	1,620	17,977	Active Capacity 154,584			
6,440	2,023	27,106	af, Permit 9502R Uses: Irr, Dom, Ind, Rec, Mun,			
6,445	2,381	38,132	Stk, Fish & Wildlife,			
6,450	2,702	50,852	Minimum Streamflow,			
6,455	3,010	65,112	Power			
6,460	3,366	81,031	1 0 1 0 1			
6,465	3,773	98,857				
6,470	4,235	118,855				
6,475	4,771	141,355				
6,477.8	5,082	155,147				
6,480	5,396	166,661				
6,485	6,116	195,525	Active Capacity 190,250			
6,490	6,709	227,603	af, Permit 6629R Uses:			
6,495	7,097	262,113	Irr, Dom, Ind, Rec, Mun,			
6,500	7,532	298,677	Stk, Fish & Wildlife,			
6,505	7,960	337,389	Power			
6,506	8,058	345,397				
6,510	8,438	378,389	Surcharge Capacity,			
6,513.1	8,819	403,396	57,999 af			
Total Availa		345,397				
Total Perm	it 9502R	154,584				

Reservoir: Fremont Lake

Elevation <sup>1</sup>	Elevation <sup>2</sup>	Area	Average	Capacity	Total		_
(ft)	(ft)	(ac)	(ac)	(AF)	(AF)	Appropriation	
7,405.45	7,415.00	4,888.00			unknown		
			4,897.00	4,897.00		Municipal, 8937R	
7,406.45	7,416.00	4,907.01			4,897.00		
7,407.45	7,417.00		4,922.06	9,844.12		4452R	
7,408.45	7,418.00	4,937.11			14,741.12		
			5,377.92	5,377.92		4453R	
7,409.45	7,419.00	5,380.80			20,119.04	440010	
			5,385.40	5,385.40		4465R	
7,410.45	7,420.00	5,390.00			25,504.44		
			5,395.00	5,395.00		2,697.5 af - Irr &	8937R
7,411.45	7,421.00	5,400.00			30,899.44	2,697.5 af - Mun	03571

Elevation<sup>1</sup> from previous maps Elevation<sup>2</sup> from BM - USC & GS J-44

From Williams (1995):

		Average		Total
Elevation	Area	Area	Capacity	Capacity
(ft)	(ac)	(ac)	(AF)	(AF)
7,415.093	5,014.34			1
7,416.19	5,033.76	5,024.05	5510.41	5,510.4
7,418.139	5,067.96	5,050.86	9844.12	15,354.5
7,419.198	5,087.02	5,077.49	5377.92	20,732.5
7,420.255	5,105.72	5,096.37	5385.4	26,117.9
7,421.19	5,122.28	5,114	4781.59	30,899.4

Reservoir:	Kemmerer	No. 1		_	(Kemmere	r City Res.)
Elevation	Area	Average	Capacity	Total		
(ft)	(ac)	(ac)	(AF)	(AF)	Ар	propriation
7,122.00	0.00			0.00		
		0.16	0.33			af
7,124.00	0.33			0.33		Inactive Cap. 33 Permit 5302R
		0.80	1.60			30; 30;
7,126.00	1.27			1.93		it 5
		5.87	11.73			ive irm
7,128.00	10.46			13.66		Pe
		17.58	19.34		Ŷ	Ë
7,129.10	24.69			33.00	1,058 af Permit 5302R	
		30.52	27.46		53	~
7,130.00	36.34			60.46	mit	Active Cap. 1,025 af Permit 5302R M&I Use
		46.49	92.98		eri	2R
7,132.00	56.64			153.44	Т Н	230
		62.73	125.45		8 8	lit &
7,134.00	68.81			278.89	,05	μ
		78.84	157.68		-	af Pe Use
7,136.00	88.86			436.57		C;at
		99.12	198.24			02!
7,138.00	109.37			634.81		, ,
		118.28	236.56			ap
7,140.00	127.19			871.40		O O
		130.73	186.60			xiv.
7,141.43	134.27			1,058.00		Ac
		137.67	78.88		Ń	
7,142.00	141.06			1,136.88	af 76F ie	
		151.83	303.66		78 af 9776 I Use	
7,144.00	162.59			1,440.54	710.78 af :rmit 9776 M&I Use	
		172.76	328.24		710.78 af Permit 9776R, M&I Use	
7,145.90	182.93			1,768.78	Ц	

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
0	8.6			0
		24.6	133	
5	40.6			133
		57.1	285.5	
10	73.7			418.5
		90.9	454.5	
15	108.2			873

# Reservoir: McNinch No. 1

# Area-Capacity Characteristics as reported on Enl. Permit:

Elevation	Area	Average	Capacity	1
(ft)	(ac)	(ac)	(AF)	]
80.00	1.02			]
		11.43	57.15	
85.00	21.85			
		38.19	190.95	
90.00	54.54			
		70.70	353.50	
95.00	86.86			
		96.65	484.75	
100.00	107.04			
Total availa	able capaci	ty	1,086.35	Permit No. 5413R & This Appl.
Original ca	pacity		873.00	Permit No. 5413R
Enlarged c	apacity		213.35	This Appl.

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
0	2.4			0
		5.2	26	
5	8.0			26
		12.6	63	
10	17.2			89
		21.8	109	
15	26.4			198

Reservoir: McNinch No. 2

# Reservoir: Meeks Cabin

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
8,630.0	0.6			
		5.9	59.4	
8,640.0	11.3			59.4
		18.0	180.3	
8,650.0	24.7			239.7
		42.7	426.6	
8,660.0	60.6			666.4
		81.0	809.9	
8,670.0	101.4			1,476.3
		118.6	1,185.6	
8,680.0	135.7			2,661.9
		150.4	1,504.4	
8,690.0	165.1			4,166.3
		179.9	1,798.5	
8,700.0	194.6			5,964.8
		206.4	2,064.5	
8,710.0	218.3			8,029.3
		237.5	2,375.4	
8,720.0	256.8			10,404.7
		277.4	2,774.0	
8,730.0	298.0			13,178.7
		312.3	3,122.8	
8,740.0	326.6			16,301.5

Area-Capacity Characteristics as reported on Enl. Permit:

Elevation	Area	Average	Total
(ft)	(ac)	(ac)	(AF)
8,533	0		
		4.0	28
8,540	8		
		14.0	168
8,550	20		
		37.0	538
8,560	54		
		73.0	1,268
8,570	92		
		107.5	2,343
8,580	123		
		137.0	3,713
8,590	151		
		164.5	5,358
8,600	178		
		189.5	7,253
8,610	201		
		217.5	9,428
8,620	234		
		251.0	11,938
8,630	268		
		283.0	14,768

8,640	298		
- )		314.5	17,913
8,650	331		
		342	19,623
8,655	353		
		365	21,448
8,660	377		
		387.5	23,386
8,665	398		
		408.5	25,428
8,670	419		
		428.5	27,570
8,675	438		
		449	29,815
8,680	460		
		465.5	32,143
8,685	471		
		476	33,571
8,688	481		

# Reservoir: Middle Piney

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
0	168			0
		171	855	
5	174			855
		177	885	
10	180			1,740
		183	915	
15	187			2,655
		191	955	
20	194			3,610
		198	591	
23	200			4,201

Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
-5	1,296			
		1,316	6,580	
0	1,336			6,580
		1,356	6,780	
5	1,376			13,360
		1,396	6,980	
10	1,416			20,340

# Reservoir: New Fork Lake

From Williams (1995):

Elevation	Area	Capacity	
(ft)	(ac)	(AF)	
20		0	
25	1,297	2,000	
30	1,334	6,500	
35	1,376	13,400	
38	1,400	17,500	Spillway Elevation
40	1417	20200	
44.2	1450	25700	

# Reservoir: Paterson Lake

Elevation	Area	Average	Total
(ft)	(ac)	(ac)	Capacity (AF)
0	40.00		0.00
		85.00	
3	130.00		255.00
		153.50	
6	177.00		715.50
		188.50	
9	200.00		1,281.00

Figures in italics are computed from areas listed on permit maps. Permitted Capacity: 1237 AF Reservoir: Silver Lake

Elevation	Area	Average	Capacity
(ft)	(ac)	(ac)	(AF)
0	113.78		
		121.27	363.81
3	128.76		
		135.36	406.08
6	141.96		
		157.52	449.22
9	157.52		
		Total:	1,219.11

Area-Capacity Characteristics are reported on Enl. Permit:

Elevation	Area	Average	Capacity	
(ft)	(ac)	(ac)	(AF)	
85	94.30			u
		98.35	147.52	atic
86.5	102.40			n AF
		111.27	389.44	Original Appropriation = 1219.11AF, Irrigation
90	120.15			219 riga
		133.47	667.35	r 13
95	146.80			igi "
		147.00	14.70	Ō
95.1	147.20			, pr X
		163.60	932.52	Enl., Irr. And Stock
100.8	180.00			u r o
		Total:	2,151.63	

# Reservoir: Sixty Seven

From Williams (1995):

Elevation	Area	Capacity	
(ft)	(ac)	(AF)	
0	33	200	
3	81	450	
6	126.5	800	
9	169.5	1,150	
12	207	1,600	
15	240	2,050	
18	273	2,650	
21	306	3,350	
24	337.5	4,300	
26	360	5,211	Spillway Elevation
27	369	5,350	
30	399	7,000	
31.5	414	7,090	

# Reservoir: Lake Viva Naughton

Elevation	Area	Average	Total Cap	1
(ft)	(ac)	(ac)	(AF)	Appropriation
7,170.00	0.00	(0.0)	( )	
		23.16	116.00	
7,175.00	46.32			
		73.25	482.00	
7,180.00	100.18			
7 4 0 5 0 0	47470	137.46	1,169.00	
7,185.00	174.73	200.62	2 21 8 00	
7,190.00	244.53	209.63	2,218.00	
7,130.00	244.00	289.69	3,666.00	ΑF
7,195.00	334.85	200.00	0,000.00	ő
.,	0000	382.71	5,580.00	ς, Ω
7,200.00	430.56		-,	4,
-	L	500.64	8,083.00	<u>ب</u>
7,205.00	570.72			Allocation Permit 6418R, 42,393 AF
		635.00	11,258.00	64
7,210.00	699.28			ait.
		743.47	14,975.00	er
7,215.00	787.66	00040	4040400	۵ ۲
7 000 00	070 74	829.19	19,121.00	tion .
7,220.00	870.71	981.09	24,026.00	cai
7,225.00	1,091.46	961.09	24,020.00	₽
7,225.00	1,091.40	1,097.26	28,415.00	۹.
7,229.00	1,103.05	1,007.20	20,410.00	-
.,220.00	1,100.00	1,104.50	29,520.00	
7,230.00	1,105.95	,	,	1
-		1,199.25	35,516.00	
7,235.00	1,292.54			
		1,375.36	42,393.00	]
7,240.00	1,458.18			
	4 04 4 00	1,536.28	50,074.00	د ار, af
7,245.00	1,614.38	1 600 40		6R af 22,
7,250.00	1,770.58	1,692.48	58,536.00	52
7,230.00	1,110.58	1,837.83	67,725.00	Permit 7476R Ind = 16,500 af, Irr = 10,752 af, Total = 27,252 al
7,255.00	1,905.08	1,007.00	01,120.00	<u> </u>
7,200.00	1,000.00	1,920.36	69,645.00	tal := Tal
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.,	.,	1,997.30	77,365.00	
7,260.00	2,058.95	,	,	Permit 7599R
		2,130.00	81,895.00	Ind = 12,250 af
7,262.00	2,200.00		·	
		2,262.00	81,895.00	
7,265.00	2,325.00			Surcharge 19,126 af
		2,468.00	101,021.00	Surcharge 19,120 al
7,270.00	2,610.00			
		Capacity	81,895.00 19,126.00	1
	Surcharge	J		

# Reservoir: Willow Lake

				-
Elevation	Area	Average	Capacity	Total
(ft)	(ac)	(ac)	(AF)	(AF)
2	1,800			
		1,845	5,535	
5	1,890			5,535
		1,917	9,585	
10	1,945			15,120
Total Capa	city Under	Permit 383	31R.	15,120
Capacity L	Inder 1st Ei	nlargemen	<i>t:</i>	
10	1,840			
		1,848	3,696	
12	1,856			3,696
Total Capa	3,696			
Capacity L				
12	1,856			
		1,907	3,814	
14	1,958			3,814
Total Capa	3,814			
Total Available Capacity				22,630

# Reservoir: High Savery

Elevation	Area	Av Area	Incr. Volume	Volume	
feet	acres	acres	acre-feet	acre-feet	
7180	0		0	0	
		2.05			
7185	4.1		10.2	10.3	
		7.5			
7190.5	10.9		37.5	47.7	DEAD POOL (INACTIVE CAPACITY
		15.6			47.7 A-F
7195	20.3		78	125.8	
		27.1			
7200	33.9		135.6	261.3	
		39.05			
7205	44.2		195.3	456.6	
		50.1			
7210	56		250.4	706.9	
		59.75			
7215	63.5		298.8	1005.7	
		68.45			
7220	73.4		342.3	1348	
7005		81.3	400.0	4754.0	
7225	89.2	07.05	406.3	1754.3	
7000	404.0	97.05	405.4	0000.4	
7230	104.9	110.0	485.1	2239.4	
7235	120.3	112.6	562.9	2802.3	
1230	120.3	129.1	302.9	2002.3	
7240	137.9	129.1	645.4	3447.7	
1240	157.3		043.4	5447.7	

		146.55			1
7245	155.2		7.32.5	4180.2	
		164.5			
7250	173.8		822.4	5002.7	OPERATIONALLY INACTIVE
		183.1			MINIMUM POOL - FISHERIES 5724.0
7254.2	192.4		769	5771.7	A-F
		194.1			
7255	195.8		155.1	5926.8	
		205.07			MUNICIPAL AND ENVIRONMENTAL
7259.12	214.3		844.9	6771.7	POOL 1000.0 A-F
		216.42			
7260	218.5		191	6962.7	
		230.15			
7265	214.8		1150.8	8113.5	
		255.25			
7270	268.7		1276.3	9389.8	
		282.45			
7275	296.2		1412.4	10802.3	
		310.65			
7280	325.1		1553.4	12355.7	
7005	0.55	340.05	1700.4	1 1 1 2 5 0 1	
7285	355	074.05	1700.4	14056.1	
7000	207 5	371.25	4050.4	45040.5	
7290	387.5	403.15	1856.4	15912.5	
7205	110.0	403.15	2015.7	17020.2	
7295	418.8	434.6	2015.7	17928.3	
7300	450.4	434.0	2172.9	20101.2	
7300	430.4	466.35	2172.5	20101.2	IRRIGATION AND RECREATION
'305-NHWI	482.3	400.00	2331.7	22432.9	POOL 15661.2 A-F
000 11111	10210	497.65	200111	22.102.10	
7310	513		2488.2	24921.1	
7010	010	529.85	2100.2	2102111	
7315	546.7		2649.2	27570.3	
	0.0	563.4			
'320-MHWI	580.1		2816.8	30387.1	FLOOD POOL 7954.2 A-F
	Total Avai	lable Capa	city	22432.9	

**APPENDIX H** 

**SAGE GROUSE** 



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Wyoming State Office P.O. Box 1828 Cheyenne, Wyoming 82009-1828

IN REPLY REFER TO: 6840 (930) P

February 10, 2012

EMS TRANSMISSION: 02/15/2012 Instruction Memorandum No. WY-2012-019 Expires: 9/30/2013

To: District Managers and Deputy State Directors

From: State Director

Subject: Greater Sage-Grouse Habitat Management Policy on Wyoming Bureau of Land Management (BLM) Administered Public Lands Including the Federal Mineral Estate

Program Area: All programs

**Purpose**: This Instruction Memorandum (IM) provides guidance to Bureau of Land Management Wyoming (BLM WY) Field Offices (FOs) regarding management consideration of Greater Sage-Grouse habitats for proposed activities until resource management planning updates are completed. This guidance is in place of direction provided in Washington Office (WO) IM No. 2012-043 concerning interim management policies and procedures for Greater Sage-Grouse. Specifically, this IM addresses all BLM WY programs and provides all necessary interim program direction consistent with WO IM No. 2012-043. Where planning efforts to update and incorporate this guidance are not yet completed, the BLM WY State Office will conduct periodic review of the implementation of measures and directives contained in this IM to determine their applicability and effectiveness and make changes as necessary. This IM replaces IM No. WY-2010-012 and IM No.WY-2010-013 (USDI BLM 2010a, USDI BLM 2010b). This IM also acknowledges that Wyoming BLM will be meeting the intent of WO IM-No. 2012-044, BLM National Greater Sage Grouse Land Use Planning Strategy.

**Policy/Action**: It is the policy of BLM WY to manage Greater Sage-Grouse seasonal habitats and maintain connectivity in identified areas in support of the population management objectives set by the State of Wyoming. This guidance is consistent with guidelines and recommendations

provided for in the Wyoming Governor's Sage-Grouse Implementation Team's Core Population Area Strategy and the most recent Wyoming Governor's Executive Order (EO) 2011-5. This IM is also consistent with the BLM National Sage-grouse Habitat Conservation Strategy (USDI BLM 2004a), WO policy guidance including:

- IM No. WO-2011-138 (Sage-Grouse Conservation Related to Wildland Fire and Fuels Management);
- IM No.WO-2010-071 (Gunnison and Greater Sage-Grouse Management Considerations for Energy Development);
- IM No.WO-2012-043 (Greater Sage-Grouse Interim Management Policies and Procedures);
- National BLM Policy Manual 6840 which provides direction for the management of BLM Sensitive Species; and
- IM NO. WO-2012-044, BLM National Greater Sage-Grouse Land Use Planning Strategy.

Because Washington Office IM No. WO-2012-043 references the terms Preliminary Priority Habitat (PPH) and Preliminary General Habitat (PGH), the following explanation of terms used in Wyoming to describe these areas is necessary. BLM WY will refer to PPH in this IM as "core" or "connectivity" areas because these areas currently correspond to the mapped boundaries of the State of Wyoming's Core Population Area Strategy and meet the instructed intent of WO guidance. Connectivity areas are not the same as core areas in Wyoming, but they are a high priority for management, as identified by the State (EO 2011-5; Figure 1). Additionally, the BLM WY, Buffalo Field Office (BFO) has identified sage-grouse "Focus Areas" for adaptive management direction during the Buffalo resource management plan revision process. A record of the management direction for these existing "focus areas" can be reviewed by visiting the following BLM WY BFO web-site:

(http://www.blm.gov/wy/st/en/field\_offices/Buffalo/wildlife/sagegrouse.html).

Finally, PGH in Wyoming corresponds to all Greater Sage-Grouse habitats not located within identified core, connectivity or focus areas.

This guidance is structured to utilize an adaptive management approach that effectively adopt the goals and objectives of the State's Sage-Grouse Core Protection Area Strategy regarding habitat conservation, restoration, and reclamation practices for Sage-Grouse habitats in Wyoming.

The IM policy guidance will be implemented in conjunction with existing program-specific policies and Best Management Practices (BMPs) such as, but not limited to, those contained in the fluid minerals program and the lands and realty program. It is the goal of BLM WY to continue to work toward the long-term conservation of Greater Sage-Grouse habitats in

Wyoming through coordination with partners, including the Governor's Office of the State of Wyoming, the Wyoming Game and Fish Department (WGFD) and the U.S. Fish and Wildlife Service (FWS), and to also utilize input from the Resource Advisory Council (RAC), Local Sage-Grouse Working Groups (LWGs), BLM cooperators and stakeholders through a process that includes the immediate implementation of the following measures and statements.

## **Policy Statement 1: Habitat Mapping and Assessment**

The BLM WY State Office will, along with other involved partners, continue to support the development and use of the statewide sage-grouse seasonal habitat models. In addition, BLM WY will continue to support the development of genetic connectivity information and other tools appropriate and necessary to support BLM management decisions. It is anticipated that regionally-based, seasonal habitat models will be fully developed for nesting, early brood-rearing and winter habitat areas by 2013. BLM WY FOs are encouraged to work with the WGFD, using input from LWGs, researchers, industry, and other partners to identify, delineate, and manage important sage-grouse seasonal habitats and movement corridors even before the completion of these models. BLM WY will refer to core area maps located in the State's EO 2011-5. EO 2011-5 also includes clarified management prescriptions for the designated areas of non-core and connectivity areas. If, through the planning process, BLM proposes to adjust management strategy or boundaries of these areas from the State EO, all such adjustments must be coordinated with the State of Wyoming and other cooperators throughout the established NEPA and planning compliance processes.

The BLM WO has finalized the Sage-grouse Habitat Assessment Framework (HAF) as of August 2010, and instruction from the HAF must be considered when assessing the use of best tools for delineating relative abundance or quality of important seasonal sage-grouse habitats in core. Wyoming Sage-Grouse definitions are provided in Attachment 1 of this IM for reference and consideration of the following statements. Additionally, Attachment 2 provides habitat component descriptions for reference and consideration of the following statements.

# Policy Statement 2: Timing, Distance, Disturbance, and Density Restrictions

Pending completion of ongoing land use planning revisions and amendments, BLM WY FOs must consider and evaluate the following sage-grouse habitat conservation measures related to timing, distance, disturbance, and density for proposed projects both within and outside of core areas as appropriate. FOs should, on a project-by-project basis, evaluate these and other project-specific habitat conservation measures within the context of the proposal and associated documentation of National Environmental Policy Act (NEPA) compliance.

With regard to timing limitations, the Governor's EO presents timing restrictions, as recommended by the Sage-Grouse Implementation Team (SGIT), of March 15 to June 30 for the protection of breeding activities (*i.e.*, lek, nesting, and early brood rearing) as well as the winter seasonal protections from November 1 to March 14 for Winter Concentration Areas (WCAs). At a minimum, the BLM will consider these recommended timing restrictions in core areas. Where local FOs have obtained credible data and information to support an additional 2 weeks of

protection preceding these recommended dates or subsequent to these dates, then BLM FOs may consider expanding the dates of restriction for the protection of sage-grouse breeding, early brood rearing, and winter concentration habitat areas. This instruction is consistent with the Wyoming Governor's EO (EO 2011-5; Attachment B; Statement 2).

The following sage-grouse habitat conservation measures, which FOs must consider and evaluate consistent with applicable laws, when considering proposed actions, are concentrated on providing direction for identified core and connectivity habitats and those areas of habitat outside these designations. For management prescriptions within WY BLM - BFO focus areas, refer to established management prescriptions for these areas that would be applied during the RMP revision process. The BFO is the only WY BLM FO that has, or will, identify sage-grouse focus areas.

### Timing and Distance:

<u>Sage-grouse leks inside core/connectivity areas</u>: Surface occupancy and/or disruptive activities are prohibited on or within a six tenths (0.6) mile radius of the perimeter<sup>1</sup> of occupied<sup>2</sup> sage-grouse leks.

For the purposes of implementation of this policy, FOs must consider and evaluate an alternative that would not allow new surface facilities, including roads, to be authorized within a 0.6-mile buffer around occupied core or connectivity leks. Other actions <u>may</u> be consistent with the State's strategy when authorized (e.g., buried power and flowlines) with adherence to seasonal restrictions in nesting/early brood-rearing habitat and/or winter concentration areas, where the action(s) would not result in adverse impacts to core sage-grouse populations.

<u>Sage-grouse outside core/connectivity areas</u><sup>3</sup>: Surface occupancy and/or disruptive activities are prohibited on or within a one-quarter (0.25) mile radius of the perimeter of occupied sage-grouse leks.

For the purposes of implementation of this policy, FOs must consider and evaluate an alternative that would not allow new surface facilities, including roads, to be authorized within a 0.25 mile buffer around occupied leks outside core or connectivity areas. Other actions <u>may</u> be consistent with the State's strategy when authorized (e.g., buried power and flowlines) with adherence to seasonal restrictions in nesting/early brood-rearing habitat

<sup>&</sup>lt;sup>1</sup> Mapping of lek perimeters is underway in cooperation with the WGFD. Field Offices are encouraged to continue to coordinate with WGFD to complete lek perimeter mapping. FOs must use lek perimeter data from WGFD if available, and until such time as the perimeter is mapped, use 0.6 miles from the center of the lek.

<sup>&</sup>lt;sup>2</sup> Wyoming Sage-Grouse Definitions are in Attachment 1.

<sup>&</sup>lt;sup>3</sup> Connectivity Areas as identified by SGIT recommendations and Wyoming Governor's EO 2011-5.

and/or winter concentration areas, where the action(s) would not result in adverse impacts to core sage-grouse populations.

**Sage-grouse nesting/early brood-rearing habitat in core areas**: Surface disturbing and/or disruptive activities are prohibited from March 15–June 30 to protect sage-grouse nesting and early brood rearing habitat. Apply this restriction to all nesting and early brood-rearing habitats inside core areas regardless of distance from the lek. Where credible data support different timeframes for this seasonal restriction, dates may be expanded by up to 14 days prior to or subsequent to the above dates.

**Sage-grouse nesting/early brood-rearing habitat in connectivity areas**: Surface disturbing and/or disruptive activities are prohibited from March 15–June 30 to protect nesting and early brood-rearing habitats within 4 miles of the lek or lek perimeter of any occupied sage-grouse lek within identified connectivity areas. Where credible data support different timeframes for this seasonal restriction, dates may be expanded by 14 days prior or subsequent to the above dates.

**Sage-grouse nesting/early brood-rearing habitat outside core or connectivity areas**: Surface disturbing and/or disruptive activities are prohibited from March 15–June 30 to protect sage-grouse nesting and early brood rearing habitats within 2 miles of the lek or lek perimeter of any occupied lek located outside core or connectivity areas. Where credible data support different timeframes for this restriction, dates may be expanded by 14 days prior or subsequent to the above dates.

**Sage-grouse late brood-rearing and Winter Concentration Areas (WCAs)**: Surface disturbing and/or disruptive activities in sage-grouse WCAs are prohibited from December 1–March 14 to protect core populations of sage-grouse that use these winter concentration habitats. While the bulk of winter and late brood rearing habitat necessary to support core area populations is available within core population areas, it may be necessary to protect additional areas of winter concentration that are not located within the current core area boundaries. Appropriate seasonal timing restrictions and habitat protection measures must be considered and evaluated where WCAs or important late brood-rearing areas are identified as supporting populations of Greater Sage-Grouse that attend leks within core.

#### Surface Disturbance and Disruptive Activities:

Surface disturbing and disruptive activities are defined in the WY BLM Guidance for Use of Standardized Surface Use Definitions (WY IB 2007-029). For actions other than those taken for human health and safety, regulatory compliance or emergency, BLM FOs must determine if any activity proposed in sage-grouse nesting, brood-rearing or WCA habitat is "disruptive" by determining if the activity would require people and/or the structure or activity to be present in these habitats for a duration of more than 1 hour during any one 24 hour period during the applicable season in a site-specific area. Disruptive activity restrictions are not applicable to mandatory actions including those required to ensure compliance with existing permits, 43 CFR §3162.1(a) and 43 CFR §3162.5-1(a) and (c), or activities meeting any of the definitions of casual use as found in the Code of Federal Regulations.

#### **Density and Disturbance**:

#### Inside Sage-Grouse Core Areas:

For authorization of new proposed actions within sage-grouse core areas, including where there are valid existing rights, FOs must consider an alternative that would limit activities to an average of no more than one oil and gas and/or mining location per 640 acres and no more than 5 percent habitat disturbance (related to all programs or applicable sources of "disturbance" – see Disturbance Density Calculation Tool (DDCT) Manual within the core areas using the DDCT. Exempted activities not subject to the disturbance limits will not require use of the DDCT, but their associated disturbance will be captured (i.e., toward the 5 percent threshold) and will count toward the disturbance limits for non-exempted actions. Include results of the tool in the record when conducting site-specific or project-level documentation of National Environmental Policy Act (NEPA) compliance as appropriate.

The overall goal of the core area strategy as it relates to density and disturbance measures is to limit the fragmentation or loss of sagebrush habitats that support core populations. The BLM will consider and evaluate measures that limit or reduce the density of oil and gas or mining activities to no more than an average of 1 location per 640 acres; and to limit all surface disturbance (any program area) to no more than 5 percent of the core landscape using the DDCT. The consolidation and minimization of disruptive human influences and infrastructure is a basic strategy in limiting wildlife habitat fragmentation and habitat disturbance. The effort to consolidate or minimize fragmentation and disturbance must be considered regardless of whether proposed activities are located inside or outside of Sage-Grouse core or connectivity areas (see Attachment 3) and regardless of land ownership patterns.

### Inside Greater Sage-Grouse core areas the density and disturbance goals include:

• The maintenance of sagebrush communities by maintaining or reducing the density of disturbance locations and disruptive activities on the landscape; or

• To not exceed an average of one oil and gas or mining location per 640 acres within the DDCT area identified using the DDCT, and total surface disturbance including existing disturbance and any proposed activity disturbance within the DDCT area should not exceed 5 percent disturbance of core sage-grouse habitats (See Policy Statement 4).

#### Inside Greater Sage-Grouse connectivity areas the disturbance goals include:

• To not exceed 5 percent habitat disturbance (up to 32 acres) per 640 acres using the DDCT process. For authorization of any proposed action within sage-grouse connectivity areas, including where there are valid existing rights, FOs must consider an alternative that would limit habitat disturbance to no more than 5 percent (up to 32 acres) per 640 acres of suitable sage-grouse habitat within connectivity areas in site-specific or project-level documentation of NEPA compliance.

The overall goal of the core population area strategy within connectivity areas is to minimize habitat loss within these areas sufficient to maintain high probability of lek persistence such that

conservation of population linkage for genetic transfer between sage-grouse populations in Wyoming and those within Montana and the Dakotas is achieved.

### Activities excepted by the State plan from the conductance of a DDCT calculation:

Although the following land uses and land management practices must consider and evaluate provisions that support the goals of the core area strategy, including appropriate sage-grouse management protection and conservation measures (*i.e.*, seasonal timing, applicable spatial restrictions, etc.), they will not be subject to, nor require use of the DDCT in order to be consistent with this policy or the State's core population area strategy and EO.

- Herbicide use on or within existing well pads, roads, pipelines and powerline rights-of-way.
- Insecticide application using spot treatments for Grasshopper/Mormon cricket control or where aerial treatments follow accepted Reduced Agent-Area Treatments (RAATS) protocol and other common avoidance measures/protocols as appropriate and/or necessary.
- Existing public road maintenance activities (new roads and/or upgrading of existing roads will be subject to consideration of DDCT and results).
- Emergency response or actions specifically taken to avoid an emergency.
- Agricultural livestock reservoirs, water pipelines and protected spring developments.
- Fences (necessary construction and maintenance actions, seasonal restriction, relocation and/or marking of fences with high potential for strike mortality). Seasonal removals or adaptive modifications should be considered prior to any approval or construction of new fences in sage-grouse core area habitats.
- Cultural resource pedestrian surveys.
- All actions taken to comply with other existing statutes, regulations or terms of an existing permit.
- Actions taken to comply with new or existing livestock grazing authorizations.

Exceptions to lease stipulations, Conditions of Approval (COAs), and terms and conditions (T&Cs), etc. will continue to be considered on a case-by-case basis consistent with approved Resource Management Plans (RMPs) and other BLM policy and regulations as they relate to exceptions. Adequate pre-planning can reduce or eliminate the need for exceptions to sagegrouse protections or restrictions in many cases. When considering exceptions to timing, distance, disturbance and density restrictions applied to oil and gas activities, BLM WY FOs will coordinate with the WGFD in accordance with Appendix 5G of the Umbrella MOU (WGFD and USDI BLM 1990, as updated) and the coordination diagram for interactions between BLM WY and the WGFD specific to this IM (Attachment 4). All necessary timing, distance, disturbance and density restrictions will be considered across all FOs within appropriate NEPA compliance documentation for new projects under consideration. BLM WY FOs may vary somewhat in their application of these restrictions when that variance is based on locally collected scientific data and information, and such information is included in project-specific NEPA analysis (including analysis and rationale that support existing Records of Decision). Additionally, variance or determinations that do not apply the measures located in this policy IM may be necessary where BLM is required to comply with other non-discretionary statutes and regulations (i.e., valid existing rights, oil and gas "drainage", etc.).

#### **Policy Statement 3: Conservation Objectives and Mitigation**

Through this policy IM, BLM WY will include site-specific, measurable conservation objectives for the management of core sage-grouse habitats are included in all new project NEPA documents (internal and external proposals). Documentation will include a discussion on the collection of baseline data and an outline for post-project monitoring that will be conducted if a proposal is ultimately approved. FOs are directed to coordinate with WGFD and to utilize LWG plans and other sources of information to guide development of additional conservation objectives for localized management of sage-grouse habitats. BLM WY FOs will work within multiple programs, such as the hazardous fuels, fire management, range, and wildlife programs, to accomplish sage-grouse habitat conservation objectives that would be consistent with the core population area management strategy.

BLM WY FOs will continue to work with project proponents, partners, and stakeholders to implement direct mitigation (e.g. relocating disturbance, timing and distance restrictions, etc.), utilize BMPs, and consider off-site compensatory mitigation as appropriate. Information sources to consider when identifying additional measures to reduce impacts include, but are not limited to, the BLM WY Mitigation Guidelines for Surface-Disturbing and Disruptive Activities (USDI BLM 1990) and the BLM Offsite Mitigation policy (USDI BLM 2008), and the National BLM Sage-Grouse Habitat Conservation Strategy (USDI BLM 2004). Reclamation of surface disturbance within Sage-Grouse core areas will include consideration of methods to assist in the restoration or augmentation of appropriate functional sage-grouse seasonal habitats. These measures will be in accordance with the BLM Wyoming Reclamation Policy (USDI BLM 2009b) and further guidance and information on these practices is anticipated in 2014 or earlier, with the signing of the RMP Amendments for Greater Sage-Grouse management. BLM WY will recognize the population management goals set by the WGFD when considering new or additional mitigation strategies throughout the NEPA process. The BLM's goal inside sagegrouse core areas is to maintain or enhance seasonal habitats thereby providing support for sagegrouse population management objectives of the State. Outside sage-grouse core areas, the BLM's goal is to sustain important habitats that support core populations and to maintain lek persistence over the long term in sufficient proportions of the sage-grouse population to facilitate movement and genetic transfer between core populations, including those found in adjacent States. Within sage-grouse connectivity habitats identified by the Governor's EO (2011-5), the BLM's goal is to maintain or enhance seasonal habitats in support of the connectivity population management objectives of the State.

This policy does not preclude the development and immediate implementation of new, or innovative mitigation, or other conservation measures that would also be expected to reduce activity/project impacts to sage-grouse or their habitats. New measures applied for sage-grouse will be coordinated as necessary with the WGFD. All recommendations, mitigation and conservation measures will be considered in site-specific documentation of NEPA compliance. As appropriate, these measures may be incorporated into COAs of permits, plans of development, and/or other use authorizations.

#### **Policy Statement 4: Project Locations and Analyses**

BLM WY regularly conducts wildlife habitat evaluations in response to applications and proposed activities in coordination with an interdisciplinary team. Evaluations involve a review of baseline data from office-based sources including, but not limited to, aerial photography, satellite imagery and sage-grouse demographic data which may refer to activities which pose potential threats to sage-grouse habitat. Evaluations typically include field visits to identify where impacts can be reduced by protecting seasonal habitats, especially leks, nesting, early brood-rearing, and WCAs. During these habitat evaluations, other vegetation communities not generally used by sage-grouse can be identified as potential sites in which to relocate certain projects with proposed surface disturbance or disruptive activity. In order to claim that the overall relocation results in having no substantive impacts on sage-grouse, the "patch" of nonhabitat would need to be quite large and activities would have to be further than 0.6mi from the edge of suitable habitat. This same principle would apply in the case of timing restrictions/limitations. In any case, relocation into least sensitive habitats or vegetation types would still be appropriate. Sage-grouse habitat indicators that may be useful to consider when identifying conservation measures may include existing disturbance, habitat availability, patch size, currently approved or proposed fragmentation of existing habitats, patch connectivity, patch dynamics (*i.e.*, seral stages of vegetation), habitat edge characteristics and corridors potentially used for seasonal migration. The interdisciplinary team will consider and weigh potential impacts on other resources, such as cultural resources, soils and water to determine siting within the least environmentally sensitive area. In all cases, direct, indirect and cumulative impacts of proposed action on sage-grouse, other wildlife and all other impacted resources must be described regardless of distance from the project or whether inside or outside sage-grouse core areas.

#### Disturbance Density Calculation Tool (DDCT) Review:

For activity proposals within core areas, the effort to establish compliance with this IM and support of the State's strategy and EO will be to evaluate habitat disturbance (*i.e.*, percent of lost habitat within core) and then determine density of disruptive activities (oil and gas and mining locations) by using a quantitative disturbance and density calculation called the DDCT. The DDCT utilizes a GIS platform to conduct this review. Within the DDCT process, where habitat assessment information is comprehensive enough to measure, unsuitable habitats including those associated with disturbances occurring within the DDCT area may be excluded in the disturbance calculations as described in Attachment 5. Impacts and habitat evaluations under NEPA should continue to be analyzed and described for all populations to extend out to the distances and locations appropriate to the population which is likely to be affected. To conduct a project-level review of disturbance and density using the DDCT, there is a detailed, step-by-step DDCT Process Manual in Attachment 5 of this IM. Updates and additional information will be made available as the strategy is implemented and updates to the DDCT Manual are expected to occur over time.

The remaining portion of Policy Statement 4 addresses BLM WY program activities that may occur within sage-grouse seasonal habitats and have varying degrees of impact to the health and

connectivity of the sage-steppe communities therein. There is a focus on minimizing impacts and improving the health of sagebrush habitats for sage-grouse and other sagebrush obligates in core areas.

## **Existing Activities**:

The State's strategy and this policy IM recognize and acknowledge that certain activities related to valid existing rights (oil and gas leases and mining operations), agricultural grazing activities and other existing activities will continue to occur within core areas. It is also acknowledged that existing operations and activities may have localized impacts on Greater Sage-Grouse. To offset these potential impacts, the mapping of core areas included more habitat than that which is strictly necessary for long-term conservation of the sage-grouse within the State of Wyoming (Wyoming EO 2011-5, provision No. 14). Consideration of existing activities (e.g., existing permits and developments already in place) will be expected to continue. Any expansion or new individual development proposals that require new BLM permits or decisions will remain a case-by-case determination of the BLM AO and conservation measures must be considered and evaluated before making new decisions.

# New Activity Proposals:

The BLM's goal for any new activity or development proposal within core areas is to provide consistent support for population management objectives of the State. Activities would be consistent with the strategy where it can be sufficiently demonstrated that no declines to core populations would be expected as a result of the proposed action. Published research suggests that impacts to sage-grouse leks associated primarily with infrastructure and energy development are discernible at a distance of at least 4 miles and that many leks within this radius have been extirpated as a direct result of development (Walker et al. 2007, Walker 2008). Research also suggests that an evaluation of habitats and sage-grouse populations that attend leks within an 11-mile radius from the project boundary in the context of "large" projects may be appropriate in order to consider all seasonal habitats that may be affected for birds that use the habitats associated with the proposal during some portion of the life-cycle of seasonally migratory sage-grouse (Connelly et al. 2000).

Based on this information, the potential for direct and indirect impacts to sage-grouse within core areas shall be evaluated at minimum, out to 4 miles from relatively small individual proposed actions. Effects analyses may extend out 11 miles or more from the project boundary for large-scale projects depending on local knowledge and information regarding the site-specific population. The evaluation of "large" or "small" projects is not related to the disturbance density calculation or DDCT. This determination of size will be based on the distance at which an appropriate effects analysis under NEPA should be conducted unless pertinent data and information indicates a greater distance would be appropriate.

For the purpose of illustrating the implementation of the "large" or "small" determination within this policy statement, examples of relatively small actions may include but are not limited to, minor exploratory natural gas well drilling proposals, individual rights-of-way (including below ground linear projects), vegetation treatments conducted in accordance with the sagebrush treatment protocols (See Integrated Vegetation Management below, and Attachment 6 – WGFD

Protocols for Treating Sagebrush to be Consistent with Wyoming Executive Order 2011-5), wind energy site testing and sage-grouse monitoring projects. Examples of large-scale actions may include, but are not limited to, oil and gas field developments, wind energy farm/field development projects, large interstate transmission power lines and vegetation treatments that eliminate functional habitat for sage-grouse. In all cases, these distances are only a suggested distance for evaluation and project specific distances for evaluation can be modified based upon available data and information. Additionally, in the event that these measures are all adopted in a final proposal, this does not mean that the proposed activity would be automatically approved. BLM must evaluate proposed actions on a case-by-case basis while meeting its obligations under NEPA, FLPMA, and other applicable laws.

### Noise:

BLM WY FOs will work with proponents to limit project related noise where it would be expected to reduce functionality of habitats that support core area populations. BLM will evaluate the potential for limitation of new noise sources on a case-by-case basis as appropriate. BLM's near-term goal is to continue to limit noise sources that would be expected to negatively impact core area sage-grouse populations and to continue to support the establishment of ambient baseline noise levels for occupied core area leks. As additional research and information emerges, specific new limitations appropriate to the type of projects being considered will be evaluated and appropriate limitations will be implemented where necessary to minimize potential for noise impacts on core sage-grouse population behavioral cycles.

#### **Integrated Vegetation Management**

For vegetation treatments in sagebrush within core areas, refer to Attachment 6 – WGFD Protocols for Treating Sagebrush to Benefit Sage-Grouse (WGFD 2011, as updated). These recommended protocols will be used in determining whether proposed treatment constitutes a "disturbance" that will contribute toward the 5 percent threshold for habitat maintenance or not. Additionally, these protocols will be used to determine whether the proposed treatment configuration would be expected to have neutral or beneficial impacts for core populations or if they represent additional habitat loss or fragmentation. Treatments to enhance sagebrush/grasslands habitat for sage-grouse will be evaluated based upon habitat quality and the functionality/use of treated habitats post-treatment.

BLM will work collaboratively with partners at the State and local level to maintain and enhance sage-grouse habitats in a manner consistent with the core population area strategy for conservation.

### Wildfire Emergency Stabilization (ES) and Burned Area Rehabilitation (BAR)

BLM will work collaboratively with partners at the Federal, State, and local level to maintain and enhance sage-grouse habitats in a manner consistent with the core population area strategy for conservation. Conduct DDCT reviews in coordination with the WGFD - Habitat Protection Program located in Cheyenne at the WGFD headquarters. Areas within core are high priority for restoration of sage-grouse habitat beyond immediate response.

#### Wildfire Suppression and Fuels Management

Wildfire suppression efforts in core areas should be emphasized, recognizing that other local, regional, and national suppression priorities may take precedence. Public and firefighter safety remains the number one priority for all fire management activities. BLM WY will recognize and implement the measures found in WO IM No. 2011-138 (Sage-Grouse Conservation Related to Wildland Fire and Fuels Management), or successor guidance, regarding suppression operations and fuels management which is consistent with the State plan. For fuels management, BLM WY will consider multiple tools for fuels reduction in subject NEPA compliance documentation before electing to implement prescribed fire in sage-grouse core areas. Avoid the use of prescribed fire in areas of Wyoming big sagebrush and/or within areas of less than 12 inches of annual precipitation.

### Rights-of-Way (ROW), (e.g. Powerline Transmission, Wind Energy Projects)

#### Powerline Transmission:

In conducting review of powerline transmission proposals, the use of the Framework for Sage-Grouse Impacts Analysis for Interstate Transmission Lines is necessary. The framework for analysis focuses on the evaluation of direct and indirect impacts to sage-grouse specific to large interstate transmission lines, as well as direct loss of birds that may occur and finally, mitigation (which includes the use of habitat equivalency analysis or HEA). Secondarily, a DDCT will be required for all areas of core habitat that would be crossed by transmission if proposals or alternatives are identified outside the State's preferred corridors for transmission (see EO 2011-5; Statement 15; pg. 4). The results of the DDCT would be used to evaluate opportunities to: minimize density of disturbance within core areas that are outside the State's preferred disturbance corridor, as identified in the Wyoming Governor's Executive Order 2011-5; and to identify opportunities to restore and/or enhance important sage-grouse habitat as a part of project-related mitigation. The site-specific habitat evaluation of a DDCT will enable BLM to: (a) demonstrate compliance with the Greater Sage-Grouse Habitat Management Policy on Wyoming BLM Administered Public Lands including Federal Mineral Estate (IM WY-2012-019); and (b) demonstrate consistency with the Greater Sage-Grouse Core Area Protection, Wyoming Governor's Executive Order 2011-5 which requires use of designated corridors to traverse core areas. For clarity, the DDCT is not, by itself, an analysis of impacts from proposed transmission on BLM-administered properties for the purposes of NEPA and thus, BLM WY FOs are directed to observe the Framework for Sage-grouse Impacts Analysis for Interstate Transmission Lines.

### Wind Energy:

It is the policy of BLM WY to consider, based on site specific analysis, deferral of approval of new applications and proposals for wind power development inside Greater Sage-Grouse core areas until the WY RMP updates have been finalized (*i.e.*, on-going RMP revision or on-going amendments for Greater Sage-Grouse management), unless it can be sufficiently demonstrated that the development activity would not result in declines of core sage-grouse populations. Sufficient demonstration of "no declines" should be coordinated with the WGFD and U.S. Fish and Wildlife Service. BLM WY will continue to contribute and support research and monitoring efforts to study the various environmental consequences of wind energy development on Greater Sage-Grouse or their habitats.

### Leasable Minerals:

# Energy Development and Valid Existing Rights:

Many sage-grouse seasonal habitats within and outside of core areas are encumbered by valid existing rights, such as mineral leases or existing rights-of-way. Fluid mineral leases often will include less stringent lease stipulations than the timing, distance, and density requirements identified for consideration in this policy. BLM WY FOs will work with project proponents in these situations to promote measurable sage-grouse conservation objectives such as but not limited to, consolidation of project related infrastructure to reduce habitat fragmentation and loss and to promote effective conservation of seasonal habitats and connectivity areas that support population management objectives set by the State. BLM WY FOs will continue to work with project proponents (including those from within the BLM) to site their projects in locations that meet the purpose and need for their project, but have been determined to contain the least sensitive habitats and resources whether inside or outside of core areas. Valid existing rights will be recognized and respected. In some cases, the goals of this strategy may not be met but, it remains the objective of the BLM to limit habitat loss and fragmentation within core areas.

#### Solid Mineral Leases (Coal, Oil Shale and Non-energy):

For all new coal and non-coal leasing applications, BLM will assess the potential impacts to sage-grouse through the NEPA process and as applicable identify mitigation to minimize habitat loss, fragmentation and direct and indirect effects to Greater Sage-Grouse and its habitat. The State regulatory agency would apply any BLM identified mitigation attached to the final lease document, as well as protective measures consistent with the State Policy for solid leasable minerals mining actions at the permitting stage. For solid non-energy leasable minerals, the BLM has regulatory authority to approve surface disturbing activities on Federal land only. In Wyoming, the State Department of Environmental Quality also has the regulatory authority to approve surface disturbing activities associated with Federal and non-Federal non-energy solid leasable mineral operations. Wyoming Department of Environmental Quality (DEQ) is the regulatory authority on non-Federal surface disturbing activities and is best suited to determine if development of a DDCT is required for permitting and may also impose restrictions that are not described for evaluation by BLM in this BLM WY policy IM.

#### Fluid Mineral Leasing Screen

In review of parcels nominated for lease of Federal fluid minerals in Wyoming, FOs are directed to utilize the following lease screen instruction.

Evaluate all proposed lease parcels by answering the following questions (Sage-Grouse Lease Screen - Attachment 7):

1. Is the parcel wholly or partially inside a Sage-Grouse Core Area? YES or NO?

- If YES, then move to question 2.
- If NO, then recommend the parcel or portion of parcel outside core, be offered for lease sale after attaching Lease Notice No. 3, Stipulation Controlled Surface Use for Threatened, Endangered, and Sensitive Species, and also attach all other land-use plan derived stipulations, as appropriate.

\* Note that specialists must continue to use the most up to date GIS information and layers that reflect any changes in core areas or their boundaries.

2. Is the parcel part of at least eleven square miles of contiguous, manageable, Federal fluid mineral estate? YES or NO?

- If YES, then move to question 3A by referring the parcel to the State Office Reservoir Management Group (RMG) for preliminary review regarding potential drainage and/or whether the parcel is part of an oil and gas unit.
- If NO, then move to question 3B.

\* Note: This component of the screen will assist BLM in identifying opportunities where BLM can conserve large contiguous blocks of manageable, unleased habitats for Greater Sage-Grouse within core areas. Many factors will be considered in determining manageability such as land and mineral ownership patterns, lease or land ownership arrangement, expiration date of adjacent leases and any existing development capable of production or disturbances that would affect or influence habitat functionality. Include a review of any adjacent fee and State lands as practicable.

3.A. Did the BLM WY RMG identify the parcel as having any potential drainage issues, or is the parcel part of an oil and gas unit? YES or NO?

- If YES, then recommend the parcel or portions be offered for lease sale after attaching Lease Notice No. 3, Stipulation Controlled Surface Use for Threatened, Endangered, and Sensitive Species, and also attach all other land-use plan derived stipulations, as appropriate.
- If NO, then recommend parcel for deferral.

\* Note: For all nominated parcels that meet all of the criteria, the FO may recommend deferral for sage-grouse habitat conservation. Deferred parcel areas will remain deferred from leasing until conservation planning and management potential can be evaluated in the context of a Land Use Planning action (*i.e.*, revision, maintenance, or amendment). This approach will ensure appropriate conservation measures and strategy can be effectively applied within core areas.

3.B. Is the parcel partially or entirely within 0.6-mi. of an occupied core area sage-grouse lek? YES or NO?

- If YES, move to question 4.
- If NO, the recommend that the parcel be offered for lease sale after attaching Lease Notice No. 3, Stipulation Controlled Surface Use for Threatened, Endangered, and Sensitive Species, and also attach all other land-use plan derived stipulations, as appropriate.
- 4. Is parcel entirely within 0.6 mile? YES or NO?
  - If YES, move to question 3A for review by RMG for potential drainage issues and possible deferral.
  - If NO, then the parcel must be divided using geographic coordinate database (GCDB) aliquot parts to determine the approximately 40-acre portions of parcel touching or within the 0.6 mile buffer of the occupied lek.
  - a. For the portions entirely outside the 0.6mi lek buffer, recommend they be offered for lease sale after attaching Lease Notice No. 3, Stipulation - Controlled Surface Use for Threatened, Endangered, and Sensitive Species, and also attach all other land-use plan derived stipulations, as appropriate.

b. For portions touching or within the 0.6 mile buffer of the lek, move to question 3A.

# Grazing Management:

Properly managed livestock grazing activities and sage-grouse conservation are compatible. According to the U.S. FWS's March 2010 listing determination for Greater Sage-Grouse, the influence of livestock grazing on sage-grouse habitats varies across the range of the species. This variability of potential impacts is one factor used in determining the appropriate administrative level to prescribe proper livestock grazing management practices that would maintain or enhance localized habitat conditions for sage-grouse. It is the policy of BLM WY to promote proper livestock grazing management practices that maintain or enhance desired sage-grouse habitat conditions. In order to ensure the necessary implementation of these types of practices and protections, this policy IM directs FOs to implement the following practices for all on-going and proposed permits for livestock grazing authorizations and activities in the context of the Wyoming Governor's core population area strategy for Greater Sage-Grouse. These measures have been adapted from and are in conformance with WO IM 2012-043 for grazing management guidance.

#### **Ongoing Authorization Activities**

- If periods of drought occur, where appropriate, the AO will evaluate the season of use and stocking rate and adjust through coordination with grazing permittee/lessee and annual billings processes.
- Continue to coordinate with other Federal agencies, State agencies, and non-Federal partners. Leverage funding to implement habitat projects and implement the recent Memorandum of Understanding between the BLM, NRCS, FWS, and USFS maintain or enhance core habitats through grazing practices.
- Continue to prioritize oversight and effectiveness monitoring of grazing activities to ensure compliance with permit conditions and that progress is being made on achieving WY land health standards.
- Continue to evaluate existing range improvements (e.g., fences, watering facilities) associated with grazing management operations for impacts on Greater Sage-Grouse and its habitat.
- Livestock trailing that is authorized through crossing permits under Section 123 of H.R. 2055-228 and 43 CFR 4130.6-3 will include a trailing plan that is designed to avoid sensitive areas and/or time periods for sage-grouse. The plan will include specific routes and timeframes for trailing.

#### Proposed Authorizations/Activities - Permit/Lease Renewal/Issuance

- When several small or isolated allotments occur within a watershed or delineated geographic area, strive to evaluate all of the allotments together. Prioritize this larger geographic area against other core areas for processing permits/leases for renewal.
- Coordinate BMPs and vegetative objectives with NRCS for consistent application across jurisdictions where the BLM and NRCS have the greatest opportunities to benefit Greater Sage-Grouse, particularly as it applies to the NRCS's National Sage-Grouse Initiative (http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/programs/farmbill/initiative s/and cid=steldevb1027671).

- Evaluate opportunities to coordinate management plans and strategies on multiple allotments where coordination under a single management plan/strategy would result in enhancing Greater Sage-Grouse populations or its habitat as determined in coordination with the State wildlife agency.
- Where current livestock grazing management has been identified as a causal factor in not meeting Land Health Standards (43 CFR 4180), use the process in WO-IM-2009-007, Process for Evaluating Status of Land Health and Making Determinations of Causal Factors When WY Land Health Standards Are Not Achieved, to identify appropriate actions.
- Evaluate progress towards meeting standards that may affect Greater Sage-Grouse or its habitat prior to authorizing grazing on an allotment that was not achieving land health standards in the last renewal cycle, and livestock was a significant causal factor. Where available, use current monitoring data to identify any trends (e.g., progress) toward meeting the standards. Where monitoring data are not available or are inadequate to determine whether progress is being made toward achieving WY Land Health Standards. An interdisciplinary team should be deployed as practicable to conduct a new land health assessment in coordination with the grazing permittee/lessee. The NEPA analysis for the permit/lease renewal must address a range of reasonable alternatives including alternatives that maintain or enhance Greater Sage-Grouse habitat.
- If livestock grazing was the cause of not achieving land health standards that have potential to impact Greater Sage-Grouse or its habitat in the last permit renewal cycle, an interdisciplinary team should be deployed as practicable to conduct a new land health evaluation to determine if the allotment is making progress and if livestock grazing remains a causal factor.
- Plan and authorize livestock grazing and associated range improvement projects on BLM lands in a way that maintains and/or improves Greater Sage-Grouse and its habitat. Analyze through a reasonable range of alternatives any direct, indirect, and cumulative effects of grazing on Greater Sage-Grouse and its habitats through the NEPA process:
  - Incorporate available site information collected using the Sage-Grouse Habitat Assessment Framework and utilize these data when evaluating existing resource conditions and to develop any necessary resource solutions.
  - Incorporate management practices that will provide for maintenance and/or enhancement of sage-grouse habitats, including specific attention to maintenance of desired understories of sagebrush plant communities. When developing objectives for residual cover and species diversity, identify the ecological site(s) within the planning area and refer to the appropriate Ecological Site Description(s).
  - In determining appropriate management actions that will be considered, refer to the document, "Grazing Influence, Management, and Objective Development in Wyoming's Greater Sage-Grouse Habitat" (Cagney et al. 2010) for guidance. This peer reviewed document is the result of a collaborative effort in Wyoming to ensure proper livestock grazing practices with sage-grouse habitats. It is the culmination of efforts to gather and integrate current knowledge and practices regarding livestock grazing in respect to important sage-grouse habitats within Wyoming. The information and discussion materials found within this document

will provide resource professionals in BLM WY in planning livestock grazing strategies that meet the objectives of the Wyoming policy and strategy. Additional instruction for use and implementation of this document is described in Attachment 8 - Management of Livestock Grazing in Sage-Grouse Habitats on Lands Administered by the Bureau of Land Management in Wyoming.

- Evaluate and implement grazing practices that promote the growth and persistence of native shrubs, grasses, and forbs. Grazing practices include kind and numbers of livestock, distribution, seasons of use, and other livestock management practices needed to meet both livestock management and Greater Sage-Grouse habitat objectives.
- Evaluate the potential risk to Greater Sage-Grouse and its habitats from existing structural range improvements. Address potential for modification of those structural range improvements identified as posing a risk during the renewal process.
- Balance grazing between riparian habitats and upland habitats to promote the production and availability of beneficial forbs to Greater Sage-Grouse in meadows, mesic habitats, and riparian pastures for Greater Sage-Grouse use during nesting and brood-rearing while maintaining upland conditions and functions. Consider changes to season-of-use in riparian/wetland areas before or after the summer growing season.

• To ensure that the NEPA analysis for permit/lease renewal has a range of reasonable alternatives:

• Include at least one alternative that would implement a deferred or rest-rotation grazing system, if one is not already in place and the size of the allotment warrants it.

• Include a reasonable range of alternatives (e.g., no grazing or a significantly reduced grazing alternative, current grazing alternative, increased grazing alternative, etc.) to compare the impacts of livestock grazing on Greater Sage-Grouse habitat and land health from the proposed action.

• If land treatments and/or range improvements are the primary action for achieving land health standards for Greater Sage-Grouse habitat maintenance or enhancement, clearly display the effects of such actions in the alternatives analyzed.

#### Fence Construction:

As stated above, fence proposals are subject to necessary provisions that support the goals of the core area strategy and consideration of necessary impact minimization and mitigation measures that avoid sage-grouse conflicts (*i.e.*, seasonal timing or spatial restriction, etc.). Evaluate the need for proposed fences, especially within 1.25 miles of occupied core area leks (Stephens 2010). Consider deferral of fence construction unless the objective is to maintain or enhance Greater Sage-Grouse habitats, maintain or enhance land health, promote successful reclamation, protect human health or safety or provide resource protection. Fence construction proposals will not require the development of a DDCT.

Where fence construction is authorized then, where appropriate, apply mitigation (e.g., timing limitations for construction/maintenance, proper siting outside scientifically supported buffer

zones, marking, or adjustment to post and pole construction of fences, etc.) to minimize or eliminate potential impacts to grouse, as determined in coordination with WGFD.

Consider and evaluate opportunities to modify or increase visibility of fences that are identified as posing a high risk of collision for sage-grouse. Prioritize evaluations of fences within 1.25 miles of occupied leks within core areas.

#### Water Developments:

See Policy Statement 7 below.

#### Special Recreation Permits (SRP) and Recreation Sites:

BLM will work collaboratively with partners at the Federal, State and local level to maintain and enhance sage-grouse habitats in a manner consistent with the core population area strategy for conservation. New proposals for SRPs or recreation site would be subject to "new activity proposals" as discussed above.

#### Travel Management:

For new road proposals, consider an alternative that would locate new primary and secondary roads greater than 1.9 mi from the perimeter of occupied sage-grouse leks inside core areas. Additionally, for new proposals, consider and evaluate an alternative that would locate new tertiary roads greater than 0.6 mile from the perimeter of occupied leks.

Construct new roads to a minimum design standard needed for proposed activity.

#### **Locatable Mineral Activities**:

Existing Notices and Approved Plans of Operations under 43 CFR 3809: For projects that overlap core areas, operators may be requested to submit modifications to the accepted notice or approved plan of operations so that the operations minimally impact core area habitats. The AO may convey to the operator suggested conservation measures, based upon the notice or plan level operations and the geographic area of those operations [also called the project area which is defined in CFR 3809.5]. These suggested conservation measures include measures that support the overall goals and objectives of the core population area strategy, though measures listed for evaluation in Policy Statement 2 of this IM may not be reasonable or applicable to the BLM's determination of whether the proposed operations will cause unnecessary or undue degradation under 43 CFR 3809.5. The request containing the suggested conservation measures must make clear that the operator's compliance is not mandatory.

Notices or Plans of Operation, or modifications thereto, submitted following the issuance of this guidance: As part of the 15 day completeness review of notices [or modifications thereto] and 30 day completeness review of plans of operations [or modifications thereto], the proposed project area(s) where exploration, development, mining, access and reclamation would take place should be reviewed for overlap of sage-grouse core areas in the corporate GIS database. If there is overlap, the BLM AO may notify the operator of ways that they may minimize impacts to core area habitats and request the operator to amend its notice or plan to include such measures. The request to amend the submitted notice or plan of operations must make clear that the operator's

compliance is not mandatory and that including such measures is not a requirement for completeness of either the notice or a plan of operations, nor is it a condition of acceptance of the notice or approval of the plan of operations.

# Saleable Minerals:

Where valid existing rights exist, work with permit holders to develop mutually agreeable actions such as siting/design of infrastructure or timing that will avoid or minimize effects to core populations and habitats.

For processing new permits, refer to "New Activity Proposals" above where consideration and evaluation of measures in Policy Statement 2 of this IM would be necessary.

#### **Grasshopper/Mormon Cricket Control and Management:**

FOs may implement treatments within sage-grouse core areas where outbreaks of grasshopper or Mormon cricket populations are expected to rise above economic levels. Treatments must be conducted only following reduced agent-area treatments (RAATS) protocols. BLM will work collaboratively with partners at the Federal, State, and local levels to maintain and enhance sagegrouse habitats in a manner consistent with the core population area strategy for conservation. FOs are directed to utilize http://www.blm.gov/wy/st/en/info/NEPA/documents/ghopper.html as a resource for updated information when conducting analysis of grasshopper and Mormon cricket control in sage-grouse habitats.

# Wild Horse and Burro Management:

FOs will prioritize the management of wild horse populations in core areas to within established Appropriate Management Levels (AML). In accordance with National direction, wild horse herd management areas within the State's core areas should be considered for priority removal of excess horses, except where removals are necessary in non-core population areas to prevent catastrophic environmental issues, including herd health impacts.

# Realty Actions – (e.g. Land Exchanges, Transfers, and Sales):

BLM WY will consider, based on site specific analysis, deferring final action on public land disposals within core areas where such authorizations or approvals could result in a net loss of core sage-grouse habitat until the RMP amendments or revisions are completed. Evaluation of lands identified as suitable for disposal in current RMPs will be conducted through the RMP amendment or revision process.

# Vegetation and Resource Monitoring:

See Policy Statements 3 and 9 for guidance and information regarding objectives and importance of monitoring.

# **Policy Statement 5: Resource Management Plans (RMPs)**

For ongoing and future RMP revisions, follow Section 1.3.1 of BLM's National Sage-Grouse Habitat Conservation Strategy (USDI BLM 2004a) as well as WO IM No. 2012-044, BLM

National Greater Sage-Grouse Land Use Planning Strategy, for sagebrush habitat conservation in BLM RMPs.

As WY BLM RMPs undergo revision, amendment, or modification, BLM FOs will identify any areas that would be considered under at least one alternative as unavailable for oil and gas leasing or wind energy development, ROW exclusions, etc., as appropriate. As part of this consideration FOs are encouraged to consider when existing leases are set to expire. BLM will also review the recommended management practices and sage-grouse conservation measures from section 1.4.1 of BLM's National Sage-Grouse Habitat Conservation Strategy (USDI BLM 2004a), the Wyoming Greater Sage-Grouse Conservation Plan, LWG plans and recommendations, peer reviewed research, and other available information, to the extent possible, for public lands and the Federal mineral estates.

Observe and analyze the objectives for maintenance and improvement of sage-grouse habitats that support population management objectives set by the State of Wyoming. The objectives and associated management practices will be designed to limit habitat loss, degradation, simplification, and fragmentation (US EPA 1993).

BLM WY FOs will develop plans addressing RMP objectives and to monitor sage-grouse habitats in order to assess effectiveness of conservation measures that will be applied in achieving the long-term conservation of sage-grouse habitats. All BLM authorized activities located in sage-grouse habitats will require appropriate sage-grouse conservation measures.

BLM WY RMP revisions and/or amendments will follow all applicable principles laid out in WO IM No. 2012-044 and analyze appropriate sage grouse habitat conservation regulatory mechanisms in at least one alternative of the RMP/EIS.

BLM WY RMP revisions and/or amendments will develop specific exception criteria for sagegrouse restrictions and application of greater or lesser restrictions for short or long-term activities. Exception, waiver, or modification evaluation factors may include, but are not limited to, localized population conditions, relative quality or condition of the habitat, presence/absence of sage-grouse or their sign, presence of other activities in the area, importance for migration or genetic connectivity, duration and timing of the proposed activity, local topography, severity and forecast of weather, beneficial aspects of the project for sage-grouse habitats, including possible reclamation activities, and cover or forage availability.

Consider landscape scale conservation strategies that may include special management of seasonal habitats and linkage zones. Use program-specific BMPs such as, but not limited to, temporary set-asides, phased development and/or off-site mitigation if offered by the proponent, sage-grouse habitat reclamation objectives, buried power lines, and other efforts that reduce or consolidate surface-disturbing and disruptive activities in these strategies.

#### Policy Statement 6: Lek Data

The official Wyoming sage-grouse lek database is maintained by the WGFD in accordance with Appendix 4B of the Umbrella Memorandum of Understanding (MOU) between the WGFD and BLM (WGFD and USDI BLM 1990).

Use of WGFD lek data in conducting DDCT review is required.

BLM WY FO specialists and local WGFD personnel will meet at least annually to locally coordinate and review the accuracy of data and incorporate the most up-to-date information as necessary. Scheduling of these annual coordination meetings is up to the individual FOs with their local WGFD counterparts. For data to be included in the WGFD database, it must be collected using techniques and accuracy standards agreed upon by WGFD and BLM. Annual lek surveys and lek counts will be coordinated between WGFD and the BLM to reduce duplicated efforts and minimize disturbance in accordance with the Umbrella MOU.

#### **Policy Statement 7: West Nile Virus**

Artificial water impoundments will be managed to the extent of BLM's authority for the prevention and/or spread of West Nile virus (WNv) where the virus poses a threat to sage-grouse. This may include but is not limited to: (a) the use of larvicides and adulticides to treat waterbodies; (b) overbuilding ponds to create non-vegetated, muddy shorelines; (c) building steep shorelines to reduce shallow water and emergent aquatic vegetation; (d) maintaining the water level below rooted vegetation; (e) avoiding flooding terrestrial vegetation in flat terrain or low lying areas; (f) constructing dams or impoundments that restrict seepage or overflow; (g) lining the channel where discharge water flows into the pond with crushed rock, or use a horizontal pipe to discharge inflow directly into existing open water; (h) lining the overflow spillway with crushed rock and construct the spillway with steep sides to preclude the accumulation of shallow water and vegetation; and (i) restricting access of ponds to livestock and wildlife (Doherty 2007).

Field Offices should consider alternate means to manage produced waters that could present additional vectors for WNv. Such remedies may include re-injection under an approved Underground Injection Control (UIC) permit, transfer to single/centralized facility, etc.

Policy Statement 7 regarding WNv does not apply to naturally occurring waters.

Impoundments for wildlife and/or livestock use should be designed to reduce the potential to produce vectors for WNv where the virus may pose a threat to sage-grouse.

#### **Policy Statement 8: Use of Dogs**

Based on current research and consultation of experts, BLM WY cannot consider any technique other than radio telemetry to be effective for detecting individual nesting sage-grouse. Field Offices are not to utilize or accept domestic dogs as the sole mechanism for conducting site

clearances for provision of exception for activities to occur within sage-grouse nesting habitat during the nesting season. BLM WY FOs are directed to carefully consider the impacts of disturbing sage-grouse during this crucial season and the potential for mortality of birds before approving any use of this methodology. Further, given the knowledge that detection of nesting grouse is so unlikely, BLM WY FOs must consider whether any exceptions to this important seasonal protection can be granted at all within the context of your own RMP's existing analysis of the criteria for exception. The use of well-trained dogs and experienced handlers for conducting clearances of winter concentration areas is permissible only when conducted with simultaneous verification of bird presence by visual observation of sage-grouse or their sign. This policy is in compliance with the WY BLM policy (USDI BLM 2009c) which does not allow employees to transport dogs in Government vehicles.

#### **Policy Statement 9: Monitoring Effectiveness**

It is extremely important that the directives contained in this IM are monitored to determine the effectiveness of their implementation until RMPs are updated. BLM WY FOs are to establish monitoring protocols that will be incorporated into individual project approvals as appropriate and necessary. Small or in-house projects within core areas will also have a monitoring plan for sage-grouse incorporated in the approval document.

#### **Policy Statement 10: Deviations from the Policy and Strategy**

This statewide policy is intended to provide consistent sage-grouse habitat management directives on BLM administered public lands including Federal mineral estate in Wyoming. Because Wyoming is a diverse State, there may be occasional circumstances which could justify deviation from the policies stated herein. FOs may vary in the implementation of this policy IM where locally collected scientific data and information supported by comprehensive and objective NEPA analysis of a proposed action presents compelling justification for deviation. In all cases, prior to actions where deviations from policy may take place, FOs will coordinate with WGFD counterparts and advise the Deputy State Director for Resources Policy and Management (WY 930) and the Deputy State Director for Minerals and Lands (WY 920) through the District Office of their intent to take such actions. The purpose of such notification and interaction is to ensure State Office approval for such actions.

#### Timeframe: Effective immediately.

**Budget Impact**: There may be a significant effect on budgets.

#### Background:

In March 2010, the FWS published its finding on the petition for the Greater Sage-Grouse to be listed as Threatened or Endangered. The finding was that the species is "warranted, but precluded." The inadequacy of regulatory mechanisms was identified as one of the major factors in the FWS's finding on Greater Sage-Grouse. The FWS has identified the principal regulatory

mechanism for the BLM as protective measures embedded in land use plans. The BLM is identifying sage-grouse conservation measures for consideration through the planning process, with a target decision date of September 2014. The goal of the overall planning effort is to conserve and manage habitats necessary to sustain Greater Sage-Grouse populations and reduce the likelihood of listing under the Endangered Species Act.

In July 2011, the BLM announced the National Greater Sage-Grouse Planning Strategy which provides a framework for establishing adequate regulatory mechanisms (conservation measures) in applicable BLM LUPs throughout the range of the Greater Sage-Grouse. BLM WY will be working to incorporate the Wyoming Core Strategy into LUPs throughout the State and this IM will assist in preserving decision space that may be needed in the selection of potential alternatives.

Manual or Handbook Sections Affected: No manual or handbook sections are affected.

**Coordination**: This IM was coordinated among the BLM Washington D.C. Directorate, WY BLM Field Offices, other BLM State Offices, the Wyoming Office of Governor Mead and the Wyoming Game and Fish Department.

**Contacts**: Chris Keefe, Wildlife Biologist, 307-775-6101, and Buddy Green, Deputy State Director for Resources Policy and Management, 307-775-6113.

Signed By:	Authenticated By:
Donald A. Simpson	Sherry Dixon
State Director	Secretary

9 Attachments:

- 1 Wyoming Sage-Grouse Definitions (4 pp)
- 2 Seasonal Sage-grouse Habitat Component Descriptions (2 pp)
- 3 Wyoming Core Areas Map ver. 3 (1 p)
- 4 Coordination with Wyoming Game and Fish Diagram (1 p)
- 5 DDCT Process Manual (31 pp)

6 – Wyoming Game and Fish Department Protocols for Treating Sagebrush to be Consistent with Wyoming Executive Order 2011-5; Greater Sage-Grouse Core Area Protection (5 pp)

7 – BLM Wyoming Sage-Grouse Fluid Mineral Lease Screen (1 p)

8 – Management of Livestock Grazing in Sage-Grouse Habitats on Lands Administered by the Bureau of Land Management in Wyoming (4 pp)

9 – References (3 pp)

<u>Distribution</u> Director (230), Room 204, LS CF

1 (w/o atchs) 1(w/atchs) MATTHEW H. MEAD GOVERNOR



STATE CAPITOL CHEYENNE, WY 82002

# Office of the Governor

#### STATE OF WYOMING EXECUTIVE DEPARTMENT EXECUTIVE ORDER

#### Order 2011-5 (Replaces 2010-4)

#### **GREATER SAGE-GROUSE CORE AREA PROTECTION**

WHEREAS, the Greater Sage-Grouse (Centrocercus urophasianus) inhabits much of the sagebrushsteppe habitat in Wyoming; and

WHEREAS, the sagebrush-steppe habitat type is abundant across the state of Wyoming; and

WHEREAS, the state of Wyoming currently enjoys robust populations of Greater Sage-Grouse; and

WHEREAS, the state of Wyoming has management authority over Greater Sage-Grouse populations in Wyoming; and

WHEREAS, the Greater Sage-Grouse has been the subject of several petitions to list the species as a threatened or endangered species pursuant to the Endangered Species Act; and

WHEREAS, the United States Department of the Interior has determined that listing the Greater Sage-Grouse as a threatened or endangered species is warranted over all of its range, including the populations in Wyoming; and

WHEREAS, the United States Department of the Interior has determined that listing the Greater Sage-Grouse as a threatened or endangered species is currently precluded by higher priority listing actions; and

WHEREAS, the Greater Sage-Grouse is currently considered a "candidate" species under the auspices of the Endangered Species Act; and

WHEREAS, the United States Department of the Interior is required to review the status of all candidate species every year; and

WHEREAS, the listing of the Greater Sage-Grouse would have a significant adverse effect on the economy of the state of Wyoming, including the ability to generate revenues from state lands; and

WHEREAS, the listing of the Greater Sage-Grouse would have a significant adverse effect on the custom and culture of the state of Wyoming; and

WHEREAS, the Wyoming State Legislature and other agencies have dedicated significant state resources to conserve Greater Sage-Grouse populations in Wyoming; and

WHEREAS, the state of Wyoming has developed a "Core Population Area" strategy to weave the many on-going efforts to conserve the Greater Sage-Grouse in Wyoming into a statewide strategy; and

WHEREAS, members of the Sixtieth Legislature of the State of Wyoming signed a Joint Resolution recognizing "the Greater Sage Grouse Core Area Strategy [then embodied under Governor's Executive Order 2008-2] as the State of Wyoming's primary regulatory mechanism to conserve sage-grouse and preclude the need for listing the bird as a threatened or endangered species pursuant to the Endangered Species Act of 1973."; and

WHEREAS, on April 17, 2008, the Office of the Governor requested that the U.S. Fish and Wildlife Service review the "Core Population Area" strategy to determine if it was a "sound policy that should be moved forward" and on May 7, 2008, the U.S. Fish and Wildlife Service responded that the "core population area strategy, as outlined in the Implementation Team's correspondence to the Governor, is a sound framework for a policy by which to conserve greater sage-grouse in Wyoming"; and

WHEREAS, on November 10, 2010, the U.S. Fish and Wildlife Service again confirmed that "This longterm, science-based vision for the conservation of greater sage-grouse has set the stage for similar conservation efforts across the species range," and that "the Core Population Area Strategy for the greater sage-grouse provides an excellent model for meaningful conservation of sage-grouse is fully supported and implemented"; and

WHEREAS, several western states have adopted or are considering adopting the Wyoming Core Area Strategy, thus making the concept consistent across the species range; and

WHEREAS, new science, information and data continue to emerge regarding "Core Population Areas" and the habitats and behaviors of the Greater Sage-Grouse, which led the Governor's Sage-Grouse Implementation Team to re-evaluate the original "core population areas" and protective stipulations for Greater Sage-Grouse.

NOW, THEREFORE, pursuant to the authority vested in me by the Constitution and Laws of the State, and to the extent such actions are consistent with the statutory obligations and authority of each individual agency including those found in Title 9, Chapter 5, Article 3 of Wyoming State Statutes, otherwise cited as the Wyoming Regulatory Takings Act, I, Matthew H. Mead, Governor of the State of Wyoming, do hereby issue this Executive Order providing as follows:

1. Management by state agencies should focus on the maintenance and enhancement of Greater Sage-Grouse habitats, populations and connectivity areas identified in Attachment A. Absent substantial and compelling information, these Core Population Areas should not be altered for at least five (5) years.

2. Existing land uses within Core Population Areas should be recognized and respected by state agencies. It is assumed that activities existing in Core Population Areas prior to August 1, 2008 will not be managed under Core Population Area stipulations. Examples of existing activities include oil and gas, mining, agriculture, processing facilities, housing and other uses that were in place prior to the development of the Core Population Areas (prior to August 1, 2008). Provided these activities are within a defined project boundary (such as a recognized federal oil and gas unit, drilling and spacing unit, mine plan, subdivision plat, etc.) they should be allowed to continue within the existing boundary, even if the

use exceeds recommended stipulations (see Attachment B)\_recognizing that all applicable federal actions shall continue.

3. New development or land uses within Core Population Areas should be authorized or conducted only when it can be demonstrated that the activity will not cause declines in Greater Sage-Grouse populations.

4. Development consistent with the stipulations set forth in Attachment B shall be deemed sufficient to demonstrate that the activity will not cause declines in Greater Sage-Grouse populations.

5. Funding, assurances (including efforts to develop Candidate Conservation Agreements and Candidate Conservation Agreements with Assurances), habitat enhancement, reclamation efforts, mapping and other associated proactive efforts to assure viability of Greater Sage-Grouse in Wyoming should be focused and prioritized to take place in Core Population Areas.

6. To the greatest extent possible, a non-regulatory approach shall be used to influence management alternatives within Core Population Areas. Management alternatives should reflect unique localized conditions, including soils, vegetation, development type, predation, climate and other local realities.

7. For activities outside of Core Population Areas, no more than a one-quarter (1/4) mile no surface occupancy standard and a two (2) mile seasonal buffer should be applied to occupied leks. Incentives to enable development of all types outside Core Population Areas should be established (these should include stipulation waivers, enhanced permitting processes, density bonuses, and other incentives). Development scenarios should be designed and managed to maintain populations, habitats and essential migration routes where possible. It is recognized that some incentives may result in reduced numbers of sage-grouse outside of Core Population Areas.

8. Incentives to accelerate or enhance required reclamation in habitats adjacent to Core Population Areas should be developed, including but not limited to stipulation waivers, funding for enhanced reclamation, and other strategies. It is recognized that some incentives may result in reduced numbers of sage-grouse outside of the Core Population Areas.

9. Existing rights should be recognized and respected.

10. On-the-ground enhancements, monitoring, and ongoing planning relative to sage-grouse and sage-grouse habitat should be facilitated by sage-grouse local working groups whenever possible.

11. Fire suppression efforts in Core Population Areas should be emphasized, recognizing that other local, regional, and national suppression priorities may take precedent. However, public and firefighter safety remains the number one priority for all fire management activities.

12. State and federal agencies, including the U.S. Fish and Wildlife Service, Bureau of Land Management, U.S. Forest Service, and other federal agencies shall work collaboratively to ensure a uniform and consistent application of this Executive Order to maintain and enhance Greater Sage-Grouse habitats and populations.

13. State agencies shall work collaboratively with local governments and private landowners to maintain and enhance Greater Sage-Grouse habitats and populations in a manner consistent with this Executive Order.

14. It is critical that existing land uses and landowner activities continue to occur in core areas, particularly agricultural activities on private lands. For the most part, these activities on private lands are not subject to state agency review or approval. Only those activities occurring after August 1, 2008 which state agencies are required by state or federal statute to review or approve are subject to consistency review. This Executive Order in no way adds or expands the review or approval authority of any state agency. It is acknowledged that such land uses and activities could have localized impacts on Greater Sage-Grouse. To offset these impacts, Core Population Areas have been mapped to include additional habitat beyond that strictly necessary to prevent listing of the species. The additional habitat included within the Core Population Area boundaries is adequate to accommodate continuation of existing land uses and landowner activities in Core Population Areas for consistency with this Executive Order. Attachment C contains a list of existing land uses and landowner activities that do not require review for consistency.

15. It will be necessary to construct significant new transmission infrastructure to transport electricity generated in Wyoming to out-of-state load centers. New transmission lines constructed within Core Population Areas will be consistent with this Executive Order if they are constructed between July 1 and March 14 (or between July 1 and November 30 in winter concentration areas) and within one half (1/2) mile either side of existing (prior to Governor's Executive Order 2010-4) 115 kV or larger transmission lines creating a corridor no wider than one (1) mile. New transmission lines outside this one (1) mile wide corridor within Core Population Areas should be authorized or conducted only when it can be demonstrated that the activity will not cause declines in Greater Sage-Grouse populations.

16. For purposes of consistency with this Executive Order there is established a transmission line corridor through Core Population Areas in south central and southwestern Wyoming as illustrated on Attachment D. This two (2) mile wide corridor represents the state of Wyoming's preferred alternative for routing transmission lines across the southern portion of the state while reducing impacts to Core Population Areas and other natural resources. New transmission lines constructed within this corridor shall be considered consistent with this Executive Order if construction occurs within the corridor between July 1 and March 14 (or between July 1 and November 30 in winter concentration areas).

17. New distribution, gathering, and transmission lines sited outside established corridors within Core Population Areas should be authorized or conducted only when it can be demonstrated by the state agency that the activity will not cause declines in Greater Sage-Grouse populations.

18. State agencies shall strive to maintain consistency with the items outlined in this Executive Order, but it should be recognized that adjustments to the stipulations may be necessary based upon local conditions and limitations. The goal is to minimize future disturbance by co-locating proposed disturbances within areas already disturbed or naturally unsuitable.

19. The protective stipulations outlined in this Executive Order should be reevaluated on a continuous basis and at a minimum annually, as new science, information and data emerge regarding Core Population Areas and the habitats and behaviors of the Greater Sage-Grouse.

20. State agencies shall report to the Office of the Governor within ninety (90) days of signing and annually thereafter detailing their actions to comply with this Executive Order.

This Executive Order shall remain in effect until August 18, 2015, at which time all provisions of this Executive Order shall be reevaluated.

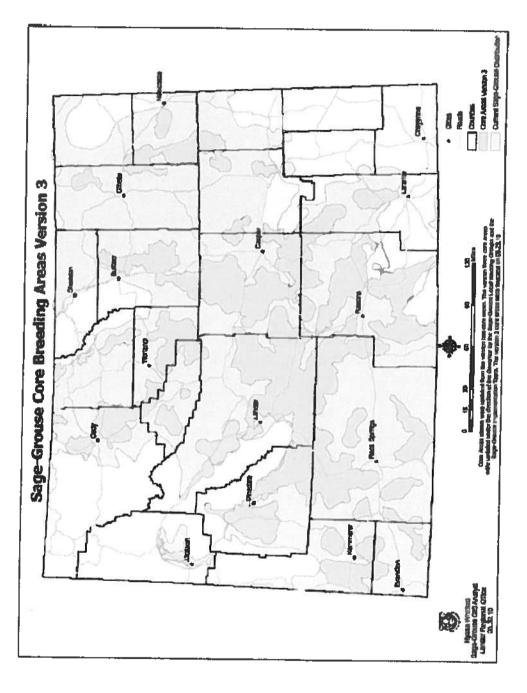
Given under my hand and the Executive Seal of the State of Wyoming this  $\leq 2$  day of 2mc, 2011.



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Matthew H. Mead Governor





#### ATTACHMENT B

#### Permitting Process and Stipulations for Development in Sage-Grouse Core Areas

#### **PERMITTING PROCESS**

**Point of Contact:** The first point of contact for addressing sage-grouse issues for any state permit application should be the Wyoming Game and Fish Department (WGFD). Project proponents (proponents) need to have a thorough description of their project and identify the potential effects on sage-grouse prior to submitting an application to the permitting agency (details such as a draft project implementation area analysis, habitat maps and any other information will help to expedite the project). Project proponents should contact WGFD at least 45-60 days prior to submitting their application. More complex projects will require more time. It is understood that WGFD has a role of consultation, recommendation, and facilitation, and has no authority to either approve or deny the project. The purpose of the initial consultation with the WGFD is to become familiar with the project proposal and ensure the project proponent understands recommended stipulations and stipulation implementation process.

**Maximum Disturbance Process:** All activities will be evaluated within the context of maximum allowable disturbance (disturbance percentages, location and number of disturbances) of suitable sage-grouse habitat (See Appendix 1 for definition of suitable sage-grouse habitat and disturbance of suitable sage-grouse habitat) within the area affected by the project. The maximum disturbance allowed will be analyzed via a Density/Disturbance Calculation Tool (DDCT) process conducted by the Federal Land Management Agency on federal Land and the project proponent on non-federal (private, state) land. Unsuitable habitat occurring within the project area will not be included in the disturbance cap calculations.

1. Density/Disturbance Calculation Tool (DDCT): Determine all occupied leks within a core population area that may be affected by the project by placing a 4 mile boundary around the project boundary (as defined by the proposed area of disturbance related to the project). All occupied leks located within the 4 mile boundary and within a core population area will be considered affected by the project.

A four-mile boundary will then be placed around the perimeter of each affected lek. The core population\_area within the boundary of affected leks and the 4 mile boundary around the project boundary creates the DDCT for each individual project. Disturbance will be analyzed for the DDCT as a whole and for each individual affected lek within the DDCT. Any portion of the DDCT occurring outside of core area will be removed from the analysis.

If there are no affected leks within the 4 mile boundary around the project boundary, the DDCT area will be that portion of the 4 mile project boundary within the core population area.

- 2. Disturbance analysis: Total disturbance acres within the DDCT will be determined through an evaluation (Appendix 1) of:
  - a. Existing disturbance (sage-grouse habitat that is disturbed due to existing anthropogenic activity and wildfire).

- b. Approved permits (that have approval for on the ground activity) not yet implemented.
- 3. Habitat Assessment:
  - a. A habitat assessment is not needed for the initial DDCT area provided that the entire DDCT area is considered suitable.
  - b. A habitat assessment should be conducted when the initial DDCT indicates proposed project will cause density/disturbance thresholds to be exceeded, to see whether siting opportunities exist within unsuitable or disturbed areas that would reduce density/disturbance effects.
  - c. When a habitat assessment is conducted it should create a baseline survey identifying:
    - i. Suitable and unsuitable habitat within the DDCT area
    - ii. Disturbed habitat within the DDCT area
    - iii. Sage-grouse use of suitable habitat (seasonal, densities, etc.)
    - iv. Priority restoration areas (which could reduce the 5% cap)
      - A. Areas where plug and abandon activities will eliminate disturbance
      - B. Areas where old reclamation has not produced suitable habitat
    - v. Areas of invasive species
    - vi. Other assurances in place (CCAA, easements, habitat, contracts, etc.)
- 4. Determination of existing and allowable suitable habitat disturbance: Acres of disturbance within suitable habitat divided by the total suitable habitat within the DDCT area times 100 equals the percent of disturbed suitable habitat within the DDCT area. Subtracting the percentage of existing disturbed suitable habitat from 5% equals new allowable suitable habitat disturbance until plant regeneration or reclamation reduces acres of disturbed habitat within the DDCT area.

**Permitting:** The complete analysis package developed by consultation and review outlined herein will be forwarded to the appropriate permitting agency. WGFD recommendations will be included, as will other recommendations from project proponents and other appropriate agencies. Project proponent shall have access to all information used in developing recommendations. Where possible and when requested by the project proponent, state agencies shall provide the project proponent with development alternatives other than those contained in the project proposal.

Exempt Activities: A list of exempt ("de minimus") activities, including standard uses of the landscape is available in Attachment C.

#### **GENERAL STIPULATIONS**

These stipulations are designed to maintain existing suitable sage-grouse habitat by permitting development activities in core areas in a way that will not cause declines in sage-grouse populations. General stipulations are recommended to apply to all activities in core areas, with the exception of exempt ("de minimus") actions defined herein (Attachment C) or specifically identified activities. The specific industry stipulations are considered in addition to the general stipulations.

1. **Surface Disturbance:** Surface disturbance will be limited to 5% of suitable sage-grouse habitat per an average of 640 acres. The DDCT process will be used to determine the

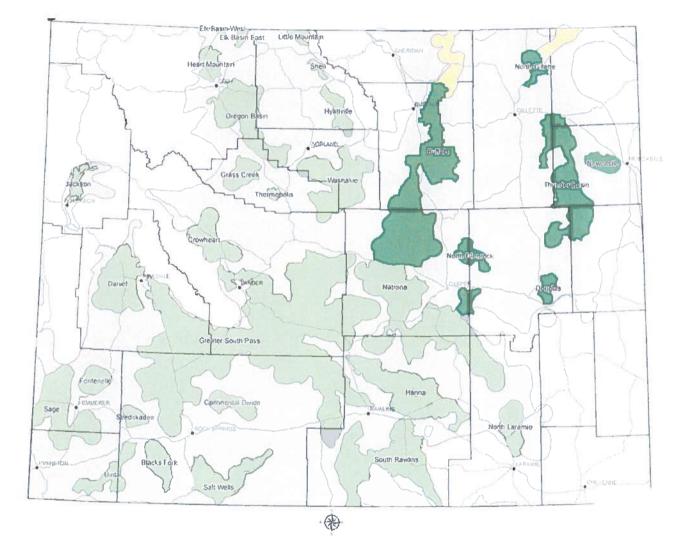
level of disturbance. Distribution of disturbance may be considered and approved on a case-by-case basis. Unsuitable habitat should be identified in a seasonal and landscape context, on a case-by-case basis, outside the 0.6 mile buffer around leks. This will incentivize proponents to locate projects in unsuitable habitat to avoid creating additional disturbance acres. Acres of development in unsuitable habitat are not considered disturbance acres. The primary focus should be on protection of suitable habitats and protecting from habitat fragmentation. See Appendix 1 for a description of suitable, unsuitable habitat and disturbance.

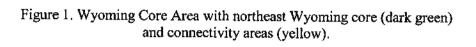
- 2. Surface Occupancy: Within 0.6 miles of the perimeter of occupied sage-grouse leks there will be no surface occupancy (NSO). NSO, as used in these recommendations, means no surface facilities including roads shall be placed within the NSO area. Other activities may be authorized with the application of appropriate seasonal stipulations, provided the resources protected by the NSO are not adversely affected. For example, underground utilities may be permissible if installation is completed outside applicable seasonal stipulation periods and significant resource damage does not occur. Similarly, geophysical exploration may be permissible in accordance with seasonal stipulations.
- 3. Seasonal Use: Activity (production and maintenance activity exempted) will be allowed from July 1 to March 14 outside of the 0.6 mile perimeter of a lek in core areas where breeding, nesting and early brood-rearing habitat is present. In areas used solely as winter concentration areas, exploration and development activity will be allowed March 14 to December 1. Activities in unsuitable habitat may also be approved year-round (including March 15 to June 30) on a case-by-case basis (except in specific areas where credible data shows calendar deviation). Activities may be allowed during seasonal closure periods as determined on a case-by-case basis. While the bulk of winter habitat necessary to support core sage-grouse populations likely occurs inside Core Population Areas, where they have been identified as winter concentration areas necessary for supporting biologically significant numbers of sage-grouse nesting in Core Population Areas. All efforts should be made to minimize disturbance to mature sagebrush cover in identified winter concentration areas.
- 4. Transportation: Locate main roads used to transport production and/or waste products > 1.9 miles from the perimeter of occupied sage-grouse leks. Locate other roads used to provide facility site access and maintenance > 0.6 miles from the perimeter of occupied sage-grouse leks. Construct roads to minimum design standards needed for production activities.
- 5. **Overhead Lines:** Bury lines when possible, if not; locate overhead lines at least 0.6 miles from the perimeter of occupied sage-grouse leks. New lines should be raptor proofed if not buried.
- 6. Noise: New noise levels, at the perimeter of a lek, should not exceed 10 dBA above ambient noise (existing activity included) from 6:00 p.m. to 8:00 a.m. during the initiation of breeding (March 1 May 15). Ambient noise levels should be determined by measurements taken at the perimeter of a lek at sunrise.
- 7. Vegetation Removal: Vegetation removal should be limited to the minimum disturbance required by the project. All topsoil stripping and vegetation removal in suitable habitat

will occur between July 1 and March 14 in areas that are within 4 miles of an occupied lek. Initial disturbance in unsuitable habitat between March 15 and June30 may be approved on a case-by-case basis.

- 8. Sagebrush Treatment: Sagebrush eradication is considered disturbance and will contribute to the 5% disturbance factor. Northeast Wyoming, as depicted in Figure 1, is of particular concern because sagebrush habitats rarely exceed 15% canopy cover and large acreages have already been converted from sagebrush to grassland or cropland. Absent some demonstration that the proposed treatment will not reduce canopy cover to less than 15% within the treated area, habitat treatments in northeast Wyoming (Figure 1) should not be conducted. In stands with less than 15% cover, treatment should be designed to maintain or improve sagebrush habitat. Sagebrush treatments that maintain sagebrush canopy cover at or above 15% total canopy cover within the treated acres will not be considered disturbance. Treatments that reduce sagebrush canopy cover below 15% will be allowed, excluding northeast Wyoming (Figure 1), if all such treated areas make up less than 20% of the suitable sagebrush habitat within the DDCT, and any point within the treated area is within 60 meters of sagebrush habitat with 10% or greater canopy cover. Treatments to enhance sagebrush/grassland will be evaluated based upon the existing habitat quality and the functional level post-treatment.
- 9. Monitoring/adaptive response: Proponents of new projects are expected to coordinate with the permitting agency and local WGFD biologist to determine which leks need to be monitored and what data should be reported by the proponent. Certain permits may be exempted from monitoring activities pending permitting agency coordination. If declines in affected leks (using a three-year running average during any five year period relative to trends on reference leks) are determined to be caused by the project, the operator will propose adaptive management responses to increase the number of birds. If the operator cannot demonstrate a restoration of bird numbers to baseline levels (established by predisturbance surveys, reference surveys and taking into account regional and statewide trends) within three years, operations will cease until such numbers are achieved.
- 10. **Reclamation:** Reclamation should re-establish native grasses, forbs and shrubs during interim and final reclamation to achieve cover, species composition, and life form diversity commensurate with the surrounding plant community or desired ecological condition to benefit sage-grouse and replace or enhance sage-grouse habitat to the degree that environmental conditions allow. Seed mixes should include two native forbs and two native grasses with at least one bunchgrass species. Where sagebrush establishment is prescribed, establishment is defined as meeting the standard prescribed in the individual reclamation plan. Landowners should be consulted on desired plant mix on private lands. The operator is required to control noxious and invasive weed species, including cheatgrass. Rollover credit, if needed, will be outlined in the individual project reclamation plan.

Credit may be given for completion of habitat enhancements on bond released or other minimally functional habitat when detailed in a plan. These habitat enhancements may be used as credit for reclamation that is slow to establish in order to maintain the disturbance cap or to improve nearby sage-grouse habitat.





- 11. **Existing Activities:** Areas already disturbed or approved for development within Core Areas prior to August 1, 2008 are not subject to new sage-grouse stipulations with the exception existing operations may not initiate activities resulting in new surface occupancy within 0.6 mile of the perimeter of a sage-grouse lek. Any existing disturbance will be counted toward the calculated disturbance cap for a new proposed activity. The level of disturbance for existing activity and rollover credit may exceed 5%.
- 12. **Exceptions:** Any exceptions to these general or specific stipulations will be considered on a case by case basis and must show that the exception will not cause declines in sage-grouse populations.

#### SPECIFIC STIPULATIONS (To be applied in addition to general stipulations)

- 1. <u>Oil and Gas</u>: Well pad densities not to exceed an average of one pad per square mile (640 acres) and suitable habitat disturbed not to exceed 5% of suitable habitat within the DDCT. As an example, the number of well pads within a two mile radius of the perimeter of an occupied sage-grouse lek should not exceed 11, distributed preferably in a clumped pattern in one general direction from the lek.
- 2. <u>Mining</u>
  - a. For development drilling or ore body delineation drilled on tight centers, (approximately 100'X100') the disturbance area will be delineated by the external limits of the development area. Assuming a widely-spaced disturbance pattern, the actual footprint will be considered the disturbance area.
  - b. Monitoring results will be reported annually in the mine permit annual report and to WGFD. Pre-disturbance surveys will be conducted as required by the appropriate regulatory agency.
  - c. The number of active mining development areas (e.g., operating equipment and significant human activity) are not to exceed an average of one site per square mile (640 acres) within the DDCT.
  - d. Surface disturbance and surface occupancy stipulations will be waived within the Core Area when implementing underground mining practices that are necessary to protect the health, welfare, and safety of miners, mine employees, contractors and the general public. The mining practices include but are not limited to bore holes or shafts necessary to: 1) provide adequate oxygen to an underground mine; 2) supply inert gases or other substances to prevent, treat, or suppress combustion or mine fires; 3) inject mine roof stabilizing substances; and 4) remove methane from mining areas. Any surface disturbance or surface occupancy necessary to access the sites to implement these mining practices will also be exempt from any stipulation.
  - e. Coal mining operations will be allowed to continue under the regulatory and permit-specific terms and conditions authorized under the federal Surface Mining Control and Reclamation Act.
- 3. <u>Connectivity</u>:
  - a. The suspension of federal and state leases in connectivity corridors (Figure 1) is encouraged where there is mutual agreement by the leasing agency and the operator. These suspensions should be allowed until additional information

clarifies their need. Where suspensions cannot be accommodated, disturbance should be limited to no more than 5% (up to 32 acres) per 640 acres of suitable sage-grouse habitat within connectivity corridors.

- b. For protection of connectivity corridors (Figure 1), a controlled surface use (CSU) buffer of 0.6 miles around leks or their documented perimeters is required. In addition, a March 15 to June 30 timing limitation stipulation is required within nesting habitat within 4 miles of leks.
- 4. <u>Process Deviation or Undefined Activities</u>: Development proposals incorporating less restrictive stipulations or development that is not covered by these stipulations may be considered depending on site-specific circumstances and the proponent must have data demonstrating that the alternative development proposal will not cause declines in sage-grouse populations in the core area. Proposals to deviate from standard stipulations will be considered by a team including WGFD and the appropriate land management and permitting agencies, with input from the U.S. Fish and Wildlife Service. Project proponents need to demonstrate that the project development would meet at least one of the following conditions:
  - a. No suitable habitat is present in one contiguous block of land that includes at least a 0.6 mile buffer between the project area and suitable habitat;
  - b. No sage-grouse use occurs in one contiguous block of land that includes at least a 0.6 mile buffer between the project area and adjacent occupied habitat, as documented by total absence of sage-grouse droppings and an absence of sage-grouse activity for the previous ten years;
  - c. Provision of a development/mitigation plan that has been implemented and demonstrated by previous research not to cause declines in sage-grouse populations. The demonstration must be based on monitoring data collected and analyzed with accepted scientific based techniques.
- 5. <u>Wind Energy Development</u>: Wind development is not recommended in sage-grouse core areas, but will be reevaluated on a continuous basis as new science, information and data emerges.

#### Appendix I Suitable Sage-Grouse Habitat Definition

Sage-grouse require somewhat different seasonal habitats distributed over large areas to complete their life cycle. All of these habitats consist of, are associated with, or are immediately adjacent to, sagebrush. If sage-grouse seasonal habitat use maps do not exist for the project site the following description of suitable habitat should be used to determine areas of unsuitable sage-grouse habitat for development siting purposes. An abbreviated description of a complex system cannot incorporate all aspects of, or exceptions to, what habitats a local sage-grouse population may or may not utilize.

Suitable sage-grouse habitat (nesting, breeding, brood-rearing, or winter) is within the mapped occupied range of sage-grouse, and:

- 1) has 5% or greater sagebrush canopy cover as measured by the technique developed by interagency efforts. "Sagebrush" includes all species and sub-species of the genus Artemisia except the mat-forming sub-shrub species: frigida (fringed) and pedatifida (birdfoot); or
- 2) is riparian, wet meadow (native or introduced) or areas of alfalfa or other suitable forbs (brood rearing habitat) within 60 meters of sagebrush habitat with 10% or greater canopy cover and the early brood rearing habitat does not exceed 20% of the suitable sagebrush habitat present within the DDCT, Larger riparian/wet meadow, and grass/forb producing areas may be considered suitable habitat as determined on a case by case basis.

**Transitional sage-grouse habitat** is land that has been treated or burned prior to 2011 resulting in <5% sagebrush cover but is actively managed to meet a minimum of 5% sagebrush canopy cover with associated grasses and forbs by 2021 (by analysis of local condition and trend) and may or may not be considered disturbed. Land that does not meet the above vegetation criteria by 2021 should be considered disturbed.

Land treatments post 2010 must meet sagebrush vegetation treatment guidelines or the treatment will be considered disturbed. Following wildfire, lands shall be treated as disturbed pending an implementation management plan with trend data showing the area returning to functional sage-grouse habitat.

To evaluate the 5% disturbance cap per average 640 acres using the DDCT, suitable habitat is considered disturbed when it is removed and unavailable for immediate sage-grouse use.

The following items are guidelines for determining suitable habitat:

- a. Long-term removal occurs when habitat is physically removed through activities that replace suitable habitat with long term occupancy of unsuitable habitat such as a road, well pad or active mine.
- b. Short—term removal occurs when vegetation is removed in small areas, but restored to suitable habitat within a few years of disturbance, such as a successfully reclaimed pipeline, or successfully reclaimed drill hole or pit.
- c. There may be additional suitable habitat considered disturbed between two or more long term (greater than 1 year) anthropogenic disturbance activities with a footprint greater than 10 acres each if the activities are located such that sage-grouse use of the suitable habitat between these activities is significantly reduced due to the close proximity (less than 1.2 miles apart, 0.6 miles from each activity) and resulting in cumulative effects of these large scale activities. Exemptions may be provided.

d. Land in northeast Wyoming (Figure 1 of Attachment B) that has had sagebrush removed post-1994 (based on Orthophoto interpretation) and not recovered to suitable habitat will be considered disturbed when using the DDCT.

#### ATTACHMENT C Exempt ("de minimus") Activities

#### Existing Land Uses and Landowner Activities in Greater Sage-Grouse Core Population Areas That Do Not Require State Agency Review for Consistency With Executive Order No. 2011-02

1. Existing animal husbandry practices (including branding, docking, herding, trailing, etc).

2. Existing farming practices (excluding conversion of sagebrush/grassland to agricultural lands).

3. Existing grazing operations that utilize recognized rangeland management practices (allotment management plans, NRCS grazing plans, prescribed grazing plans, etc).

4. Construction of agricultural reservoirs and habitat improvements less than 10 surface acres and drilling of agriculture and residential water wells (including installation of tanks, water windmills and solar water pumps) more than 0.6 miles from the perimeter of the lek. Within 0.6 miles from leks no review is required if construction does not occur March 15 to June 30 and construction does not occur on the lek. All water tanks shall have escape ramps.

5. Agricultural and residential electrical distribution lines more than 0.6 miles from leks. Within 0.6 miles from leks no review is required if construction does not occur March 1 5 to June 30 and construction does not occur on the lek. Raptor perching deterrents shall be installed on all poles within 0.6 miles from leks.

6. Agricultural water pipelines if construction activities are more than 0.6 miles from leks. Within 0.6 miles from leks no review is required if construction does not occur March 15 to June 30 and construction is reclaimed.

7. New fencing more than 0.6 miles from leks and maintenance on existing fence. For new fencing within 0.6 miles of leks, fences with documented high potential for strikes should be marked.

8. Irrigation (excluding the conversion of sagebrush/grassland to new irrigated lands).

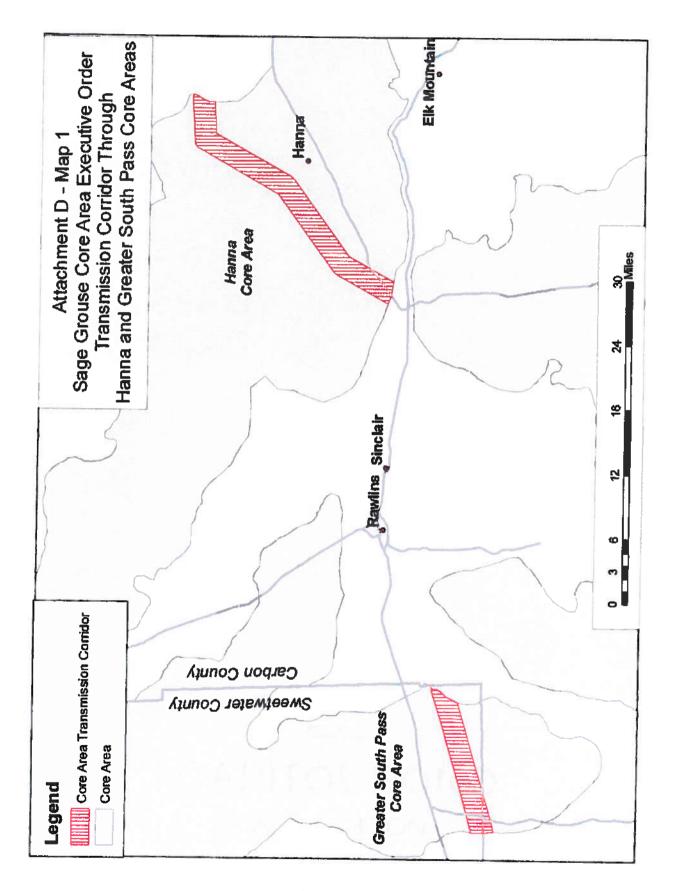
9. Spring development if the spring is protected with fencing and enough water remains at the site to provide mesic (wet) vegetation.

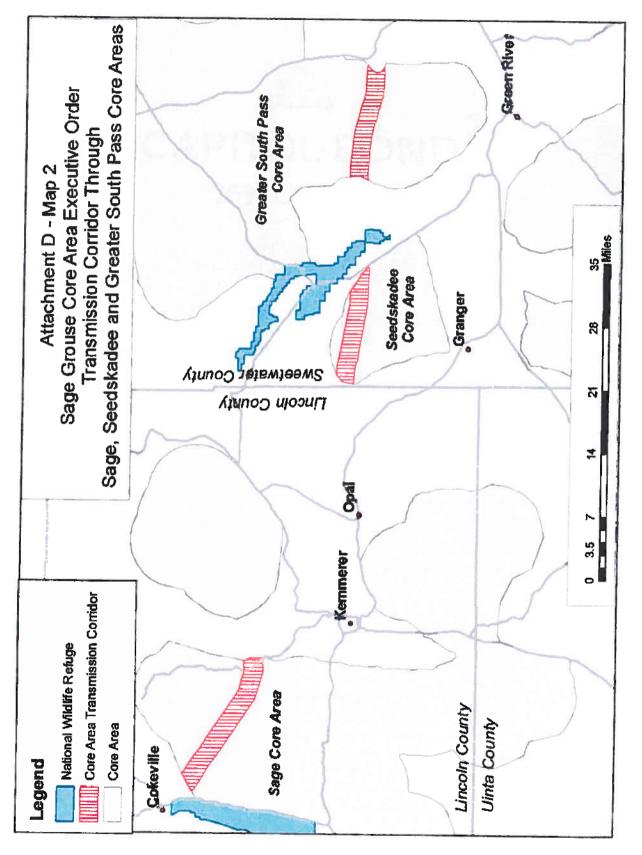
10. Herbicide use within existing road, pipeline and power line rights-of-way. Herbicides application using spot treatment. Grasshopper/Mormon cricket control following Reduced Agent-Area Treatments (RAATS) protocol.

11. Existing county road maintenance.

12. Cultural resource pedestrian surveys.

13. Emergency response.





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# WYOMING GAME AND FISH DEPARTMENT PROTOCOLS FOR TREATING SAGEBRUSH TO BE CONSISTENT WITH WYOMING EXECUTIVE ORDER 2011-5; GREATER SAGE-GROUSE CORE AREA PROTECTION (7/8/2011)

Sagebrush treatments have been implemented or proposed with the assumption of benefiting sage-grouse. Research, monitoring and anecdotal observations suggest that treatments can result in beneficial, benign or harmful impacts to sage-grouse habitat depending on many known and unknown factors.

These protocols are to be used to guide the development of Wyoming Game and Fish Department (WGFD) sponsored or supported sagebrush treatments. The purpose of these protocols is to provide a framework for WGFD projects to ensure that they are consistent with sage-grouse core area and non-core area stipulations. This framework will not answer all questions associated with treatments. It is assumed that these protocols may be revisited as new science becomes available. Communication with the WGFD Director's Office or sage-grouse coordinator will be necessary for many situations.

#### Core Area Treatments:

The following sagebrush treatment protocols are designed to ensure future habitat treatments conform to the provisions of Executive Order 2011-5, to conserve sage-grouse and prevent population declines in core habitat areas. Treatments that will NOT reduce sagebrush canopy cover to less than 15% are NOT subject to the Density/Disturbance Calculation Tool (DDCT) step prescribed below. However, such treatment proposals should still follow the other steps outlined in order to determine and document purpose and need, appropriately apply stipulations and monitor results. In northeast Wyoming core areas (Figure 1), treatments that will result in sagebrush canopy cover being reduced to less than 15% should not be conducted.

- 1. Determine and document the purpose and need for the treatment (adapted from Wyoming Interagency Vegetation Committee 2002):
  - A. Evaluate the juxtaposition, extent, importance and value of the sagebrush patch in the landscape (is this the only patch of sagebrush in the landscape?).
  - B. Identify the sagebrush species/subspecies/variety and assess the ecological site potential and treatment effects.
  - C. Determine the associated vegetation composition and condition (e.g. composition of desirable and non-desirable species and their response to treatment) and their contribution to wildlife habitat.
  - D. Assess site potential and resilience of the site to recover.
  - E. Assess other existing site influences (e.g., current grazing use, presence of noxious/exotic plant infestations, cumulative impacts, etc.).
  - F. Evaluate past management history of the site.
  - G. Establish post-treatment vegetation management objectives tiered to the management plan for the site.

- H. Create a baseline for short-term/long-term post-treatment monitoring of the site.
- 2. If there is justified purpose and need, then utilize the Density/Disturbance Calculation Tool (DDCT) outlined in Executive Order 2011-5 and conduct the prescribed analysis.
  - A. If the cumulative disturbance, including the proposed treatment, is less than 5% of suitable sage-grouse habitat as defined in the Executive Order, the project may proceed.
    - Recognize any treatment reducing sagebrush canopy cover to less than 15% will be considered disturbance for future disturbance calculations (adapted from Connelly et al. 2000a, Stiver et al. 2010).
    - ii. A project plan must be developed that considers, evaluates and appropriately applies the following stipulations:
      - 1. No treatment should occur within 0.6-mile of any occupied lek that results in less than 15% sagebrush canopy cover unless:
        - a. The proposed treatment is necessary to maintain the viability of the lek such as removing conifers or sagebrush encroaching on the lek site.
      - Treatment implementation should not occur within 4-miles of any occupied lek from March 15 – June 30 (Wyoming Game and Fish Dept. 2010).
      - Treatment implementation should not occur in designated and/or mapped sage-grouse winter concentration areas from November 15 – March 14 (Wyoming Game and Fish Dept. 2010).
      - 4. Avoid the use of fire to treat sagebrush in less than 12-inch precipitation zones (Beck et al 2009, Connelly et al 2000b, WAFWA, 2009).
      - 5. Control and monitor noxious and/or invasive vegetation post-treatment.
      - 6. Rest the treated area from grazing for two full growing seasons unless vegetation recovery dictates otherwise.
  - B. If the cumulative disturbance, including the proposed treatment, within the DDCT boundary, is greater than 5% of the suitable sage-grouse habitat and the goal of the treatment is to reduce sagebrush canopy cover to less than 15%, the project shall NOT proceed except when:
    - i. Acreage of treatment is reduced so cumulative disturbance does not exceed 5% of suitable habitat.
    - The treatment is configured such that all treated habitat is within 60 meters of sagebrush habitat (adapted from Danvir 2002, Slater 2003, Wyoming Game and Fish Department 2003, Dahlgren et al. 2006) with 10% or greater canopy cover (Connelly et al. 2000a) and no more than 20% of

suitable sage-grouse habitat in the DDCT boundary is treated in this manner (adapted from Connelly et al. 2000a).

- 3. Refer to the BLM/WAFWA Sage-grouse Habitat Assessment Framework (HAF) when conducting habitat evaluations to determine the need to treat sagebrush to enhance sage-grouse habitat and when devising standardized monitoring protocols to assess the effectiveness of treatments (Stiver et al. 2010).
- 4. In stands with less than 15% sagebrush cover pretreatment, any proposed treatment should be designed to maintain or improve sagebrush habitat (within the limits of the ecological site).

#### Non-Core Area Treatments:

As is the case with industrial development outside of Core Areas, there will be greater flexibility to conduct sagebrush treatments outside of Core Areas. There can be more emphasis placed upon the habitat needs of species other than sage-grouse.

- 1. Determine and document the purpose and need for the treatment (adapted from Wyoming Interagency Vegetation Committee 2002):
  - A. Evaluate the juxtaposition, extent, importance and value of this sagebrush patch in the landscape (is this the only patch of sagebrush in the landscape?).
  - B. Identify the sagebrush species/subspecies/variety and understand the ecology and treatment effects.
  - C. Determine the associated vegetation composition and condition (e.g. composition of desirable and non-desirable species and their response to treatment) and their effects on wildlife habitat.
  - D. Consider site potential and resilience of the site to recover.
  - E. Assess the existence of other potential site influences (e.g., current grazing use, presence of noxious/exotic plant infestations, cumulative impacts, etc.).
  - F. Evaluate past management history of the site.
  - G. Establish post-treatment vegetation management objectives tiered to the future management plan.
  - H. Create a baseline for short-term/long-term post-treatment monitoring of the site.
- 2. Conduct the treatment.
- 3. Rest the treated area from grazing for two full growing seasons unless vegetation recovery dictates otherwise.
- 4. Monitor post treatment habitat conditions and grazing/browsing by ungulates to determine success.
- 5. Monitor and control noxious and/or invasive vegetation post-treatment.

# Protocol Exceptions:

Exceptions for treatments in Core Areas will be considered only if it can be demonstrated by previous research the activity will not cause declines in sage-grouse populations. The demonstration must be based on monitoring data collected and analyzed with accepted scientific based techniques.

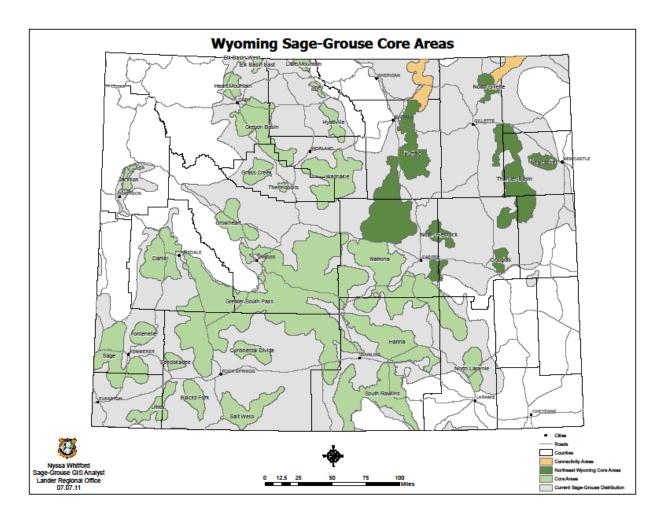


Figure 1. Wyoming sage-grouse core areas with northeast core areas differentiated.

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**APPENDIX I** 

WYWRAG AND UPPER GREEN SCHEMATICS

# **Introduction and Background**

The purpose of this effort is to refine the irrigated land to source structure relationship and develop monthly consumptive use estimates for the period 1971 through 2007 using a consistent, documented, and reproducible approach. The following Green River Basin historic crop consumptive use was performed as part of the Mapping and Attributing of Water Rights in the Colorado River Basin in Wyoming project. The association of irrigated land with irrigation structures has allowed for more accurate quantification of consumptive use estimates than in previous basin planning efforts.

Consumptive use estimates were derived for the initial Green River Basin planning effort using mean crop irrigation requirements determined at several climate station locations by Pochop, et al, and documented in the WWRC Publication #92-06 "Consumptive Use and Consumptive Irrigation Requirements in Wyoming." Pochop used the FAO-24 version of Blaney-Criddle, which includes an adjustment factor to represent the additional climate variables of humidity, solar radiation, and wind. Only temperature and precipitation climate data is measured in the Green River Basin. The additional climate variables were estimated from measurements at Lander and Casper for during the study period of 1951 through 1990.

In addition, Pochop used crop coefficients that were developed based on comparison with daily Penman-Monteith method results for some climate stations with daily data throughout Wyoming and nearby states. Only two years of overlapping information was used in the calibrated coefficient development. Lysimeter data available for three years in the Green River Basin that was used to calibrate coefficients for mountain meadow hay. The approach used for calibration of coefficients is appropriate, but the limited years of analysis does not meet the minimum criteria recommended in ASCE Manual 70, Evapotranspiration Standards.

The method used by Pochop is believed to better estimate crop irrigation requirements (CIR) in highaltitude areas than the traditional modified Blaney-Criddle method outlined in the SCS Technical Release 21 (TR-21). Pochop has been unable to provide the original data and calculations used in his analysis to allow his methodology to be extended. We were also unable to gather additional information regarding the coefficient calibration efforts. The modified Blaney-Criddle method only requires precipitation and temperature data, and is the standard method adopted by the U.S. Bureau of Reclamation for the Consumptive Uses and Losses reporting required for the Upper Colorado River Basin Compact. Therefore, for this effort the modified Blaney-Criddle method with the high-altitude elevation adjustment recommended in ASCE Manual 70 was used. The method generates CIR estimates that rely on local climate data, reflect monthly and annual climate variations, and can be easily reproduced and updated in the future.

Pochop was able to provide resulting CIR estimates for the period 1971 through 1990. Based on streamflow data for each year, percentiles were used to estimate representative dry, wet, and normal year CIR for the Green River Basin planning efforts. The CIR for each year type was then assigned to estimate CIR from 1991 through 1997

# Approach

The Green River crop consumptive use analysis was performed using StateCU, a generic, data driven consumptive use model and graphical user interface. There were two separate analyses used to understand historic crop consumptive use in the Green River Basin. A climate station analysis was used to compare CIR using the modified Blaney-Criddle approach with those estimated by Pochop at key climate stations. A structure analysis was also completed to understand water supply-limited (WSL) actual consumptive use based on the improved irrigated land assignments developed for this project and current diversion information.

# **Climate Station Analysis**

The climate station analysis was used to compare Pochop CIR estimates with modified Blaney-Criddle results for five climate stations (1951-1990) presented in WWRC Publication #92-06 as follows:

- Big Piney
- Pinedale
- Kemmerer
- Farson
- Rock Springs

Modified Blaney-Criddle only requires mean monthly temperature, total monthly precipitation, and daylight hours base on latitude to estimate CIR. An elevation adjustment was made to CIR estimates based on standard recommendations in the ASCE Manual 70. The elevation adjustment, automated through StateCU, recognizes that the modified Blaney-Criddle crop coefficients outlined in TR-21 were developed at lower elevations and do not represent the large variation between day-time and night-time temperatures in the higher elevations of Wyoming.

# Structure Analysis

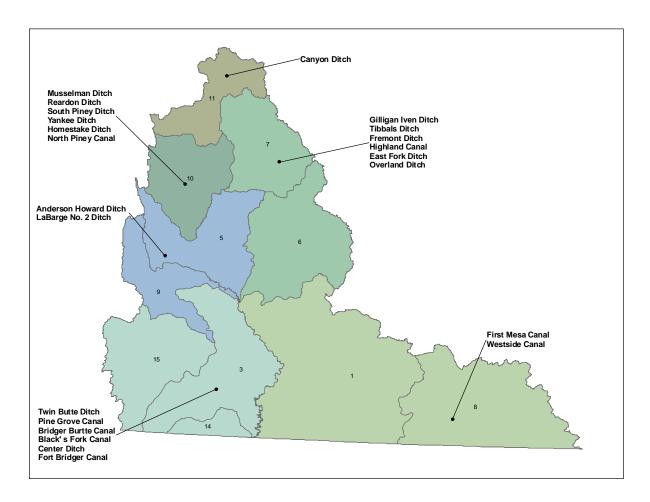
Twenty-three explicit structures were identified as having both sufficient diversion records and irrigated land associations. These twenty-three structures account for approximately 19 percent of the basin total acreage and are used as the basis for estimates of actual (water supply-limited) consumptive use for the structures without sufficient diversion records in the Green River Basin. The primary parameters required to estimate actual consumptive use include monthly climate data, irrigated crop acreage, ditch conveyance and application efficiencies, and diversion records. Irrigation practices, such as ending irrigation after the final cutting even when CIR still exists, are reflected in diversion records.

# Structures

The identification of source structures in Phase 1 resulted in a total of 1,560 diversion structures assigned to irrigated lands with water right permits. Of the 1,560 source structures, twenty-three explicit source structures were identified in the Green River Basin Plan to determine actual consumptive use based on diversion records. The remaining non-explicit source structure and unassigned irrigated land in Phase 1 were grouped as aggregate structures by water district. Figure 1 shows the name and associated water district for each aggregate and the explicit structure assigned to distribute shortages.

The twenty-three explicit source structures represent seven of the eleven water districts in the Green River Basin.





### Irrigated Acreage and Crop Types

Irrigated land coverages for both wet year and dry year acreage were developed as part of Phase 1. Table 1 shows the current acreage estimates by sub-basin for wet year (based on 1997 imagery), dry year (based on 2002 imagery), and the acreage total from the original Green River Basin Plan assessment. The average total irrigated acreage between the wet year and dry year is 334,500 acres, which is close to the original Green River Basin Plan total acreage.

Sub-basin	1997 Wet Year (Acres)	2002 Dry Year (Acres)	Green River Basin Plan (Acres)
Upper & Mainstem Green River	143,293	126,844	133,372
New Fork	57,900	55,457	52,707
Big/Little Sandy Rivers	19,951	16,241	22,506
Green River Below Fontenelle	1,373	1,097	2,042
Blacks Fork	88,972	63,978	75,173
Hams Fork	12,746	10,811	10,287
Henrys Fork	19,735	15,057	16,690
Little Snake	15,423	14,725	16,959
Vermillion/Salt Wells Creeks	3,180	2,160	674
Total	362,573	306,369	330,410

#### Table 1 – Irrigated Acreage by Sub-basin

For the original Green River Basin planning effort, water rights were not assigned specifically to irrigated acreage or diversion structures. The water right permit service area to source structure relationship developed for this effort allows for irrigated land to be tied to its source structure. In Phase I, 78 percent of the total irrigated land was tied to diversion structures. The remaining 22 percent are being assigned during Phase II. Table 2 lists the total acreage currently assigned, and unassigned, by water district for wet and dry year acreage. Table 3 lists the dry and wet year acreage for each of the 23 explicit structures.

		01				
Water	Wet Ye	ear (1997) Acre	age	age Dry Year (2002) Acreage		
District	Assigned	Unassigned	Total	Assigned	Unassigned	Total
01	474	2,706	3,180	326	1,833	2,160
03	33,331	14,591	47,922	23,688	10,202	33,889
05	7,680	5,679	13,360	6,770	5,275	12,045
06	15,784	4,167	19,951	12,774	3,467	16,241
07	53,941	3,959	57,900	51,662	3,795	55,457
08	11,225	4,198	15,423	10,709	4,015	14,725
09	7,707	5,039	12,746	6,564	4,247	10,811
10	100,357	15,259	115,616	88,347	13,593	101,940
11	11,540	4,151	15,691	10,214	3,742	13,956
14	8,173	11,563	19,735	5,994	9,063	15,057
15	29,989	11,061	41,050	22,083	8,005	30,089
Total	280,202	82,371	362,573	239,131	67,238	306,369

 Table 2 – Irrigated Acreage by Water District

			Wet Year (1997)	Dry Year (2002)
WD	Model ID	Structure Name	Acreage	Acreage
03	15153348	Pine Grove Canal	2,300	1,947
05	05005005	Anderson & Howard Canal	1,665	1,367
05	05005085	La Barge No. 2 Ditch	881	780
07	07000237	Gilligan & Iven Ditch	747	663
07	07000663	Tibbals Ditch	894	818
07	07000223	Fremont Ditch (Pine Creek)	414	414
07	07000293	Highland Canal	4,741	4,412
07	07000188	East Fork Canal	659	623
07	07154143	Overland Ditch (East Fork River)	1,368	1,306
08	08000215	First Mesa Canal	1,637	1,467
08	08153666	West Side Canal	4,036	4,156
10	10000471	Musselman Ditch (Dist 10)	917	766
10	10000917	Reardon Ditch	1,056	734
10	10000610	South Piney Ditch	2,427	2,163
10	10000715	Yankee Ditch	1,091	166
10	10000301	Homestake Ditch	1,024	1,002
10	10000943	North Piney Ditch	1,453	1,177
11	11000124	Canyon Ditch (Green River)	3,320	1,991
15	15153041	Black's Fork Canal	20,300	16,105
15	15153048	Bridger Butte Canal	2,420	1,542
15	15153084	Center Ditch	935	861
15	15153153	Fort Bridger Canal	2,876	2,724
15	15153440	Twin Butte Ditch (District 15)	733	702
Total	•	•	57,893	47,887

• West Side Canal has additional acreage in Colorado (2,026 acres (1993(wet)) and 2,145 acres (2000(dry)) (CDSS)

• To represent total Black's Fork basin shortages Pine Grove Canal included in WD 15

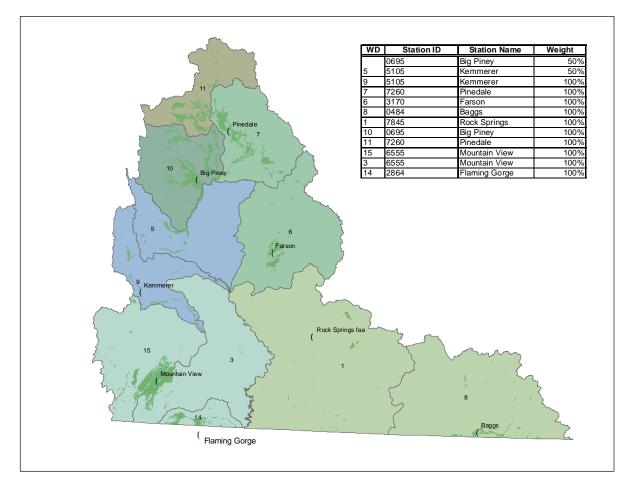
Grass pasture and alfalfa are the crops used in this analysis. Mountain meadow hay was defined as a crop type in the Green River Basin plan. It appears from TR-21 Blaney-Criddle coefficients for grass pasture were used for pasture and meadow hay in this analysis. Crop type assignments were based on the Green River Basin Plan technical memo "Basin Water Use Profile - Agriculture". Table 4 lists the percentage of the crops assigned to acreage in each water district.

Water		
District	Grass Pasture	Alfalfa
01	100%	0%
03	96%	4%
05	100%	0%
06	71%	29%
07	100%	0%
08	89%	11%
09	95%	5%
10	95%	5%
11	95%	5%
14	100%	0%
15	90%	10%

### Table 4– Crop Types

### <u>Climate</u>

Crop irrigation requirements are driven by climate data. The climate stations used in this analysis are based on proximity to irrigated land and the available period of record for both temperature and precipitation. Eight climate stations were used in this analysis, including four of the climate stations used in the Pochop analyses. Climate stations were assigned to represent water districts, as shown in Figure 2. Water districts that do not have a climate station within close proximity to irrigated lands were weighted by nearby climate stations.





Minimal filling of the climate data was required. The filling of missing climate data was completed using regression analysis or monthly averages.

### Water Delivery Efficiencies

Conveyance efficiency is applied to river headgate diversions to determine the amount of water delivered to irrigated land at the farm level. Explicit structures were assigned conveyance loss based on the "Irrigation Diversion and Operation Description" technical memorandum completed for each structure in the Green River Basin Plan appendices. Conveyance efficiencies for non-explicit aggregate structures were set to 90 percent as recommended in the "Water Conservation" Green River Plan technical memorandum. Table 5 lists conveyance loss for the explicit source structures. The water supply-limited analysis caps application efficiency at a standard maximum, but allows application efficiency to vary up to that maximum based on water supply. Standard maximum application efficiencies were used in this analysis. Maximum flood application efficiency was set to 60 percent and maximum sprinkler acreage efficiency was set to 80 percent.

WD	Model ID	Structure Name	Conveyance Efficiency
03	15153348	Pine Grove Canal	80%
05	05005005	Anderson & Howard Canal	90%
05	05005085	La Barge No. 2 Ditch	80%
07	07000237	Gilligan & Iven Ditch	80%
07	07000663	Tibbals Ditch	90%
07	07000223	Fremont Ditch (Pine Creek)	90%
07	07000293	Highland Canal	60%
07	07000188	East Fork Canal	60%
07	07154143	Overland Ditch (East Fork River)	90%
08	08000215	First Mesa Canal	90%
08**	08153666	West Side Canal	75%
10	10000471	Musselman Ditch (Dist 10)	90%
10	10000917	Reardon Ditch	90%
10	10000610	South Piney Ditch	90%
10	10000715	Yankee Ditch	75%
10	10000301	Homestake Ditch	90%
10	10000943	North Piney Ditch	90%
11	11000124	Canyon Ditch (Green River)	90%
15	15153041	Black's Fork Canal	80%
15	15153048	Bridger Butte Canal	90%
15	15153440	Twin Butte Ditch (District 15)	90%
15*	15153084	Center Ditch	100%
15*	15153153	Fort Bridger Canal	100%

Table 5 – Explicit Structure Conveyance Efficiencies

\*Based on the Green River Basin Plan, these ditches gain water en route to

irrigated lands from upstream ditch leakage

\*\* West Side efficiency estimated, described in GRBPLN having significant seepage.

### **Diversions**

Monthly diversion records for explicit structures were compiled and extended through 2007 by Western Water Consultants, Inc. as part of the current Green River Basin Plan update. The majority of the explicit structures had monthly diversions starting in the early 1980s. Missing diversion records were completed using the pattern gage approach recommended in the Green River Basin Plan. Wet, normal, and dry years were identified for key stream gages for the period 1971 through 2007; each explicit structure was assignment to a gage. Missing months were then filled with the average of available months for the hydrologic type identified for the missing year.

Table 6 lists the stream key stream gages used, by water district, to fill explicit source structure monthly diversions and the corresponding wet, normal, and dry pattern for the study period. Table 7 lists the average monthly diversions during the irrigation season for the twenty-three explicit structures and identifies the pattern gage used for filling.

	WD 3, 14, 15	WD 6, 7	WD 10, 11	WD 5, 9	WD 1, 8
Year	09218500	09196500	09188500	09210500	09523000
1971	Wet	Wet	Wet	Wet	Wet
1972	Normal	Wet	Wet	Wet	Normal
1973	Normal	Normal	Normal	Normal	Normal
1974	Normal	Normal	Wet	Normal	Wet
1975	Wet	Normal	Normal	Normal	Normal
1976	Normal	Normal	Normal	Normal	Normal
1977	Dry	Dry	Dry	Normal	Dry
1978	Normal	Wet	Normal	Dry	Wet
1979	Dry	Normal	Normal	Normal	Normal
1980	Normal	Normal	Normal	Normal	Normal
1981	Normal	Dry	Dry	Wet	Normal
1982	Normal	Wet	Wet	Dry	Wet
1983	Wet	Wet	Wet	Normal	Wet
1984	Wet	Wet	Normal	Wet	Wet
1985	Normal	Normal	Normal	Wet	Normal
1986	Wet	Wet	Wet	Normal	Wet
1987	Normal	Normal	Normal	Wet	Dry
1988	Dry	Dry	Dry	Normal	Normal
1989	Normal	Normal	Normal	Normal	Dry
1990	Normal	Normal	Normal	Normal	Dry
1991	Normal	Normal	Normal	Normal	Normal
1992	Normal	Dry	Dry	Normal	Dry
1993	Normal	Normal	Normal	Dry	Normal
1994	Dry	Dry	Dry	Normal	Dry
1995	Wet	Normal	Normal	Dry	Normal
1996	Wet	Normal	Wet	Normal	Normal
1997	Normal	Wet	Wet	Normal	Wet
1998	Wet	Normal	Normal	Wet	Normal
1999	Normal	Normal	Normal	Normal	Normal
2000	Dry	Normal	Normal	Wet	Normal
2001	Normal	Dry	Dry	Normal	Normal
2002	Dry	Dry	Dry	Dry	Dry
2003	Normal	Normal	Normal	Dry	Normal
2004	Dry	Normal	Normal	Normal	Dry
2005	Normal	Normal	Normal	Dry	Normal
2006	Normal	Normal	Normal	Normal	Normal
2007	Dry	Dry	Dry	Dry	Normal

Table 6 – Pattern Gages and WD Assignments

# December 11, 2013

Page 1

Table 7 - Average Monthly Diversions and Pattern Gage Assignments

		Pattern							
Model ID	Structure Name	Gage Assignment	April	May	June	July	Aug	Sept	Tot
05005005	Anderson & Howard Canal	09210500	274	1,768	3,166	2,234	1,076	333	8,851
05005085	La Barge No. 2 Ditch	09210500	239	1,144	1,153	733	555	165	3,989
07000188	East Fork Canal	09196500	0	792	1,462	780	304	129	3,467
07000223	Fremont Ditch (Pine Creek)	09196500	0	392	1,258	1,283	448	289	3,671
07000237	Gilligan & Iven Ditch	09196500	0	607	866	580	258	123	2,435
07000293	Highland Canal	09196500	0	3,531	9,966	7,454	2,393	1,948	25,292
07000663	Tibbals Ditch	09196500	0	1,104	1,585	994	569	532	4,784
07154143	Overland Ditch (East Fork River)	09196500	0	1,392	2,144	1,453	197	94	5,280
08000215	First Mesa Canal	09523000	0	3,838	5,170	3,202	1,611	1,357	15,178
08153666	West Side Canal	09523000	0	5,419	8,890	4,770	2,049	1,509	22,638
10000301	Homestake Ditch	09188500	307	1,255	2,388	1,623	593	270	6,436
10000471	Musselman Ditch (Dist 10)	09188500	0	464	791	407	166	98	1,926
10000610	South Piney Ditch	09188500	35	758	2,015	1,169	272	54	4,302
10000715	Yankee Ditch	09188500	82	410	737	587	495	242	2,553
10000917	Reardon Ditch	09188500	256	1,344	1,990	1,178	408	192	5,368
10000943	North Piney Ditch	09188500	50	852	1,742	1,223	712	429	5,007
11000124	Canyon Ditch (Green River)	09188500	0	1,306	2,692	3,190	1,847	801	9,836
15153041	Black's Fork Canal	09218500	0	7,535	13,440	9,293	4,162	3,666	38,096
15153048	Bridger Butte Canal	09218500	198	1,648	2,615	1,213	265	423	6,362
15153084	Center Ditch	09218500	54	198	490	242	141	145	1,269
15153153	Fort Bridger Canal	09218500	189	1,424	2,203	1,540	895	850	7,100
15153348	Pine Grove Canal	09218500	162	2,659	4,520	2,740	567	533	11,182
15153440	Twin Butte Ditch (District 15)	09218500	161	975	1,792	1,352	489	471	5,240

## **Results**

### Climate Station Analysis

Table 8A and Table 8B show the results of the climate station analysis, simulated for the 1950 through 1991 period used in the published Pochop results. The modified Blaney-Criddle method using TR-21 coefficients and standard elevation adjustment results in an average of 12 percent less CIR for alfalfa than the Pochop results, while the Grass Pasture comparison resulted in an average of 8 percent less than the Pochop results.

Alfalfa CIR Comparison (Acre-feet)								
<b>Climate Station</b>	Station Method Mean Max Min							
	Pochop	1.333	1.678	1.016				
Big Piney	Blaney-Criddle TR21	1.082	1.370	0.820				
	Pochop	1.163	1.698	0.716				
Pinedale	Blaney-Criddle TR21	1.032	1.377	0.769				
	Pochop	1.590	2.069	0.850				
Kemmerer	Blaney-Criddle TR21	1.448	1.776	1.012				
	Pochop	1.622	2.051	0.929				
Farson	Blaney-Criddle TR21	1.494	1.816	1.072				
	Pochop	2.298	2.944	1.406				
Rock Springs	Blaney-Criddle TR21	2.029	2.476	1.289				

Table 8A – CIR Comparison for Alfa	alfa (1950 through 1991)
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Grass Pasture CIR Comparison (Acre-feet)					
<b>Climate Station</b>	Method	Mean	Max	Min	
	Pochop	1.255	1.590	0.953	
Big Piney	Blaney-Criddle TR21	1.136	1.354	0.841	
	Pochop	1.091	1.609	0.658	
Pinedale	Blaney-Criddle TR21	1.077	1.387	0.724	
	Pochop	1.498	1.960	0.780	
Kemmerer	Blaney-Criddle TR21	1.390	1.759	0.873	
	Pochop	1.529	1.946	0.858	
Farson	Blaney-Criddle TR21	1.417	1.749	0.947	
	Pochop	2.170	2.795	1.313	
Rock Springs	Blaney-Criddle TR21	1.817	2.305	1.190	

As noted above, there has been difficulty in duplicating Pochop's estimation of parameters other than temperature and precipitation. In addition, the original monthly and yearly estimates used to estimate mean, maximum, and minimum CIR values presented in WWRC Publication #92-06 could not be provided. It is recognized that the modified Blaney-Criddle method using TR-21 coefficients, even with the standard recommended elevation adjustment, may underestimate CIR in the Green River Basin.

However, this method allows the development of estimates in the Green River Basin that provide climate-driven variations in both growing season and monthly and annual CIR.

### Structure Analysis

The original Green River Basin Plan approach to determining basin-wide water supply-limited consumptive use was based on an estimate of irrigation days for each month during the irrigation season using available diversion records for the key structures. Irrigation days were quantified for wet, normal, and dry years, and then assigned to regions based on key stream gages in the Green River basin. If the estimated irrigation days in a month equaled the number of days in that month, actual consumptive use was estimated to be CIR. If the estimated irrigation days for a month were estimated to be 15 days out of 30, actual consumptive use was estimated to be 50 percent of CIR.

The water supply-limited method used in this analysis considered available monthly diversion records for each key structure, in lieu of wet, dry, and normal estimated irrigation days. StateCU was used to perform a monthly structure water balance for the period 1971 through 2007 that compares water available to the crop with CIR to estimate shortages. Monthly shortages were then distributed to aggregate structures based on key structure shortages in the same water district. For instance, if the water supply limited estimate for First Mesa Canal in July 2002 was 60 percent of CIR, then aggregate structures in Water District 8 would be assigned a water supply limited consumptive use estimate equal to 60 percent of their estimated CIR.

Note that although diversion records were used by the Green River Basin Plan to estimate irrigation days, it appears that it assumes that every day the ditch is diverting, the full CIR under the ditch is met. The StateCU analysis shows that this assumption may slightly over-estimate actual consumptive use. The key ditches carry senior and junior rights and, especially as supply becomes more limited in the late summer, diversions seldom meet full CIR requirements. Therefore, the analysis performed for this project shows less actual consumptive use than reported in the Green River Basin Plan.

Table 9 shows water district average annual estimated CIR and actual consumptive use based on the maximum acreage (1997 wet year) over the hydrologic period 1971 through 2007. Table 10 shows water district average annual estimated CIR and actual consumptive use based on the minimum acreage (2002 dry year) acreage over the hydrologic period 1971 through 2007. Table 11 averages the actual consumptive use estimates for the two acreage snapshots and compares it to the estimated CIR and actual consumptive use reported in the Green River Basin Plan, by sub-basin, for normal years.

Water District	CIR (Acre-Feet)	Actual CU (Acre-Feet)	Percent Short
01	5,879	5,655	4%
03	53,142	41,898	21%
05	16,804	16,558	1%
06	27,656	27,656	0%
07	63,546	63,073	1%
08	30,407	29,096	4%
09	16,940	16,641	2%
10	133,172	113,629	15%
11	20,527	20,527	0%
14	33,795	26,482	22%
15	84,663	60,424	29%
Total	486,531	421,639	13%

Table 9 – Average Annual Basin Results (1971-2007) for Maximum Acreage (1997 wet year)

### Table 10 – Average Annual Basin Results (1971-2007) for Minimum Acreage (2002 dry year)

Water District	CIR (Acre-Feet)	Actual CU (Acre-Feet)	Percent Short
01	3,993	3,840	4%
03	35,462	30,010	15%
05	15,162	15,044	1%
06	22,514	22,514	0%
07	60,865	60,496	1%
08	29,398	28,097	4%
09	14,368	14,222	1%
10	118,455	106,650	10%
11	17,260	17,260	0%
14	25,784	21,677	16%
15	63,645	51,044	20%
Total	406,905	370,852	9%

	WYWRAG CU	GRBP CU	Percent Difference
Sub-basin	(Acre-Feet)	(Acre-Feet)	
Upper & Mainstem Green River	144,833	152,383	-5%
New Fork	61,784	60,911	1%
Big/Little Sandy Rivers	25,085	36,164	-44%
Blacks Fork	91,688	93,609	-2%
Hams Fork	15,431	12,772	17%
Henrys Fork	24,079	20,658	14%
Little Snake	28,596	20,517	28%
Vermillion/Salt Wells Creeks	4,748	4,023	15%
Total	396,246	401,037	-1%

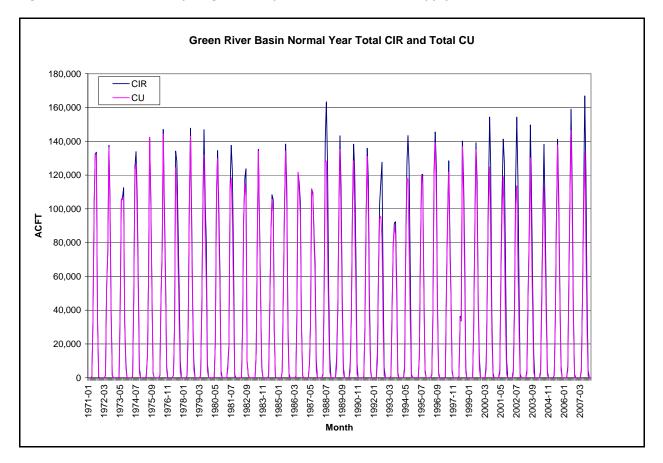
Table 11 – Average Annual Basin Results (1971-2007) for Average Acreage and Green River Basin Plan Estimated Normal Year CU

The "Consumptive Use and Losses" report for the Colorado River Basin prepared by the U.S. Bureau of Reclamation (USBR) is the original analysis of water use in the Green River Basin. The annual tabulation quantifies all water uses in the Green River Basin including irrigation use. Table 12 compares the consumptive use for the Maximum Acreage (1997 wet year) and the Minimum Acreage (2002 dry year) and the percent difference between the analyses. WYWRAG consumptive use is estimated to be 13% higher than the USBR as a result of the difference in acreage estimates.

Table 12 – Average Annual Basin Results (1997/2002) for Average Acreage and USBR Estimated
Normal Year CU

Green River Basin	WYWRAG CU (Acre-Feet)	USBR CU (Acre-Feet)	Percent Difference
Maximum Acreage (1997 wet year)	421,639	339,600	19%
Minimum Acreage (2002 dry year)	370,852	347,800	6%
Average	396,246	343,700	13%

Overall StateCU estimates of water supply limited consumptive use are comparable to the original Green River Basin Plan. The Pochop is a valid method but was constrained by both growing season and estimates of diversions. The distribution of CIR May through September to represent the growing season does not take into account variation in climate conditions. The comprehensive reproducible StateCU analysis provides a time-series that reflects the variation in climatic conditions and depletions that are based on actual diversions not wet, dry, normal irrigation days. Figure 3 shows the variation in CIR as a result of climatic conditions and water supply limited consumptive use.





The use of more refined irrigated land to source structure relationships has resulted in a more detailed and accurate quantification of consumptive use than previous planning efforts. Future estimates of irrigation water use in the Green River Basin will be improved based on additional irrigated land assignments, and quantification of agricultural depletions.

## **References:**

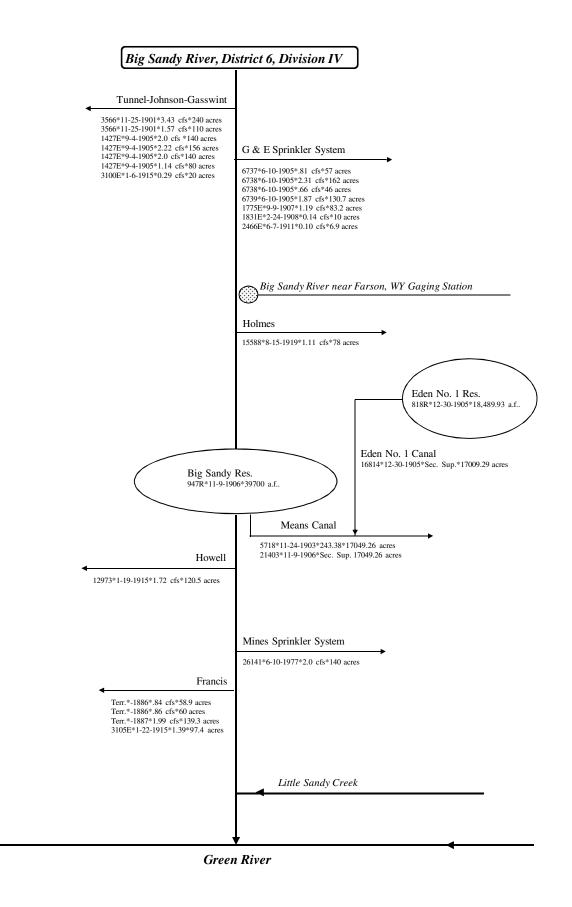
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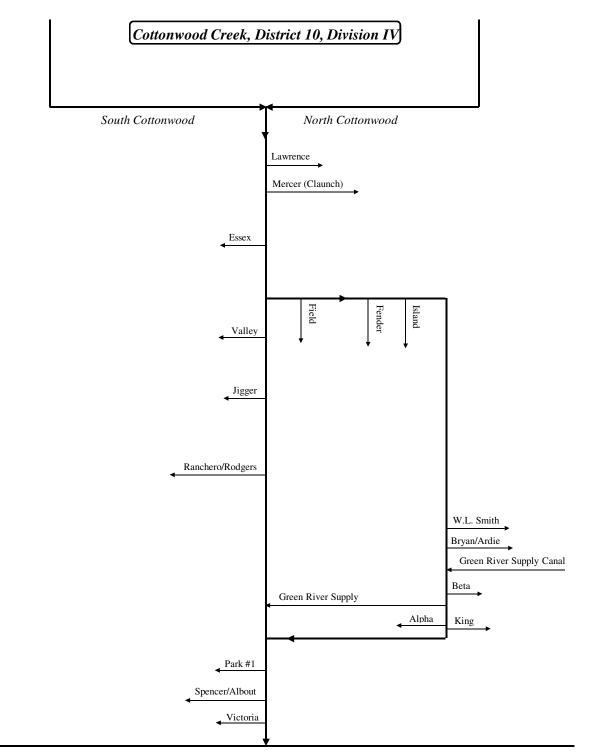
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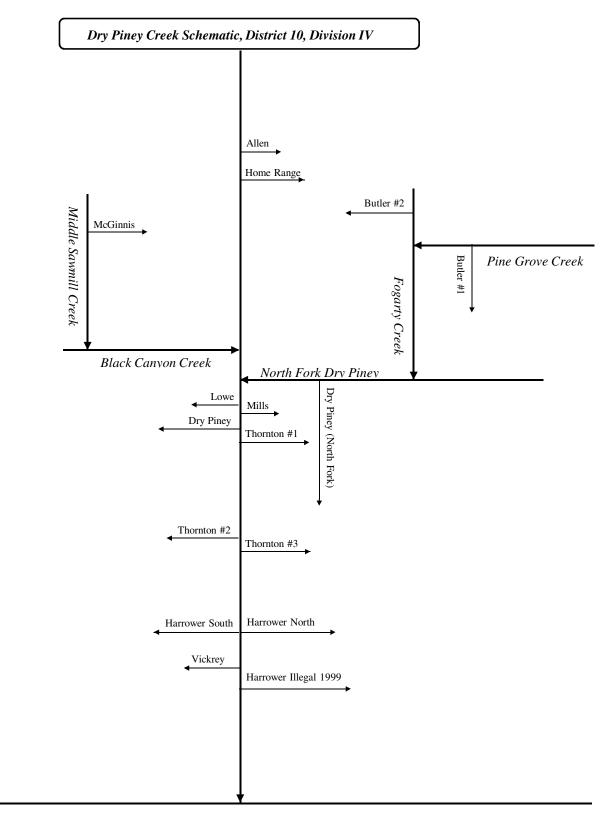
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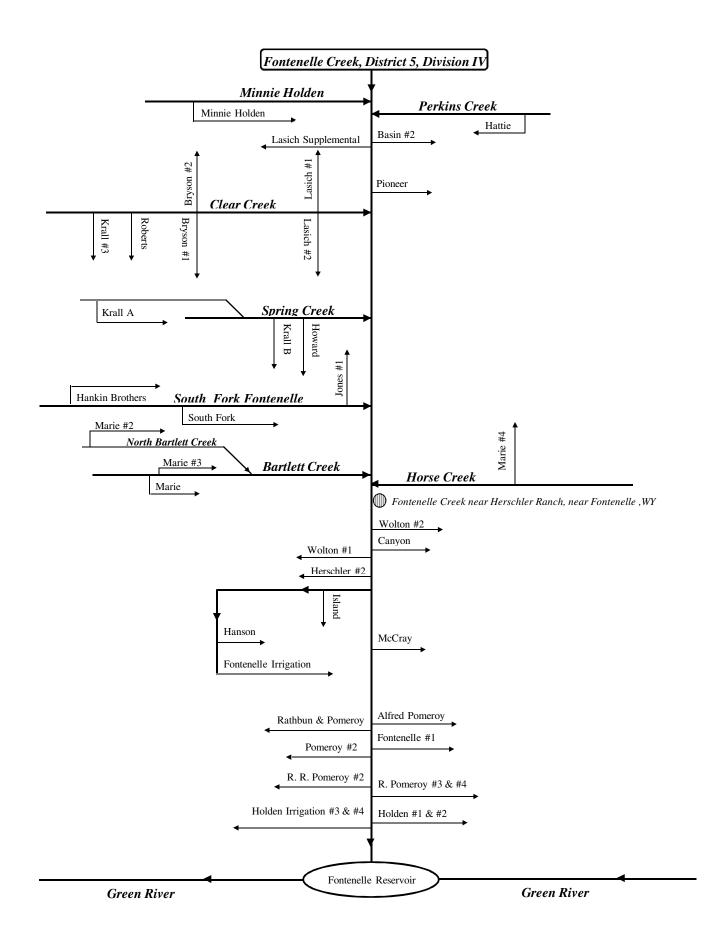


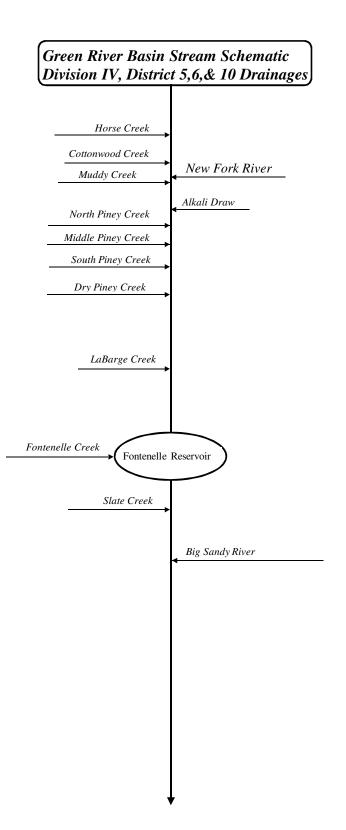


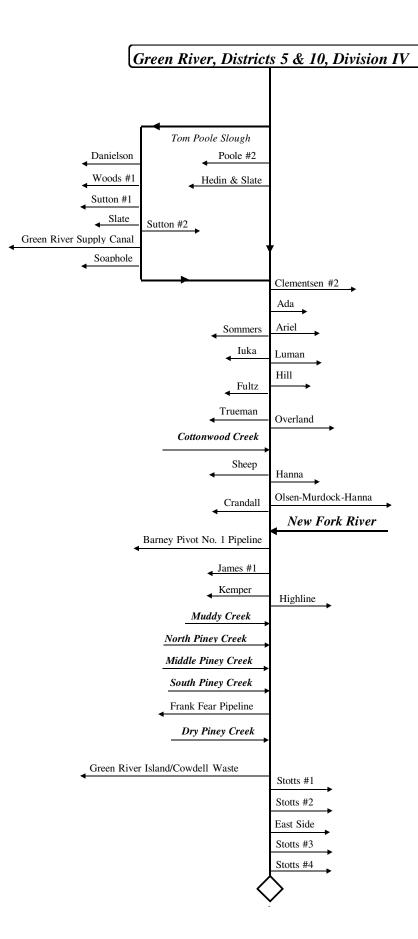
Green River

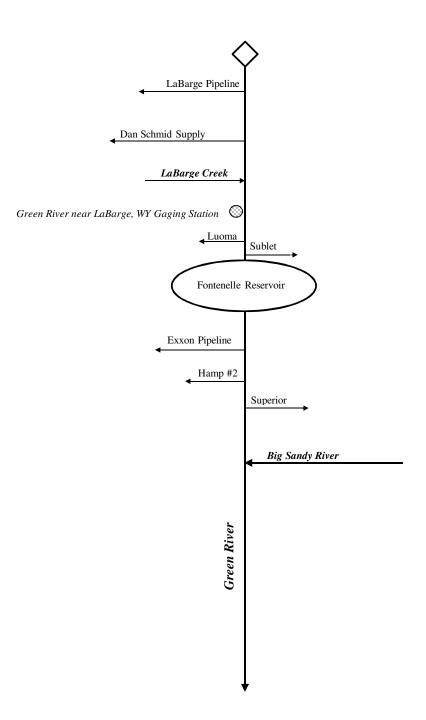


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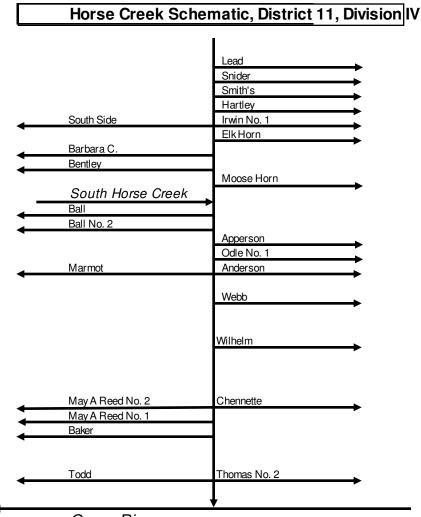




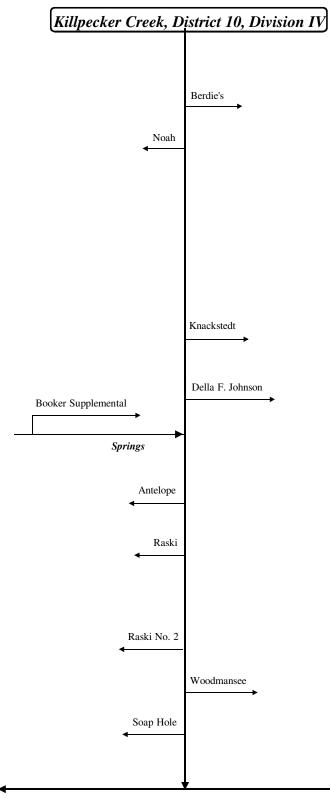




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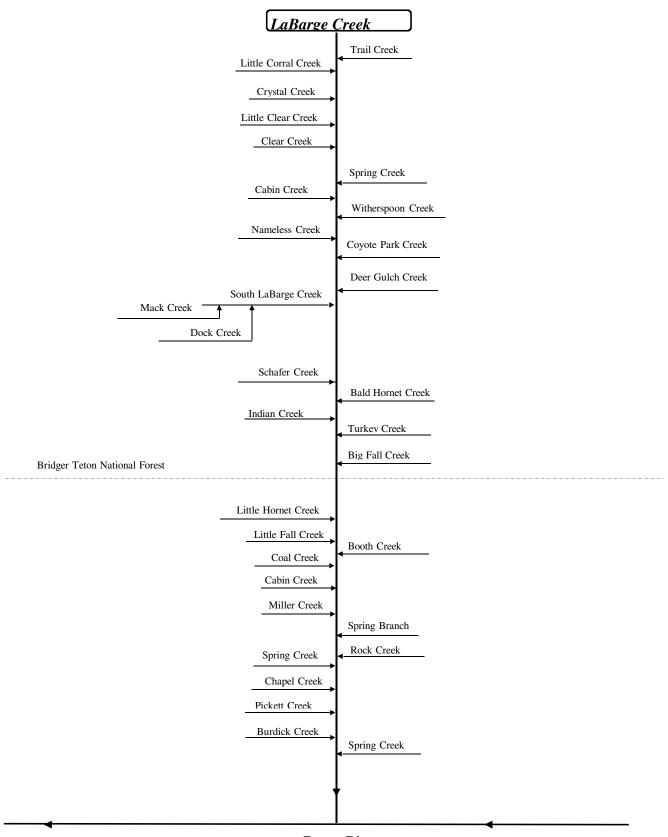


Green River

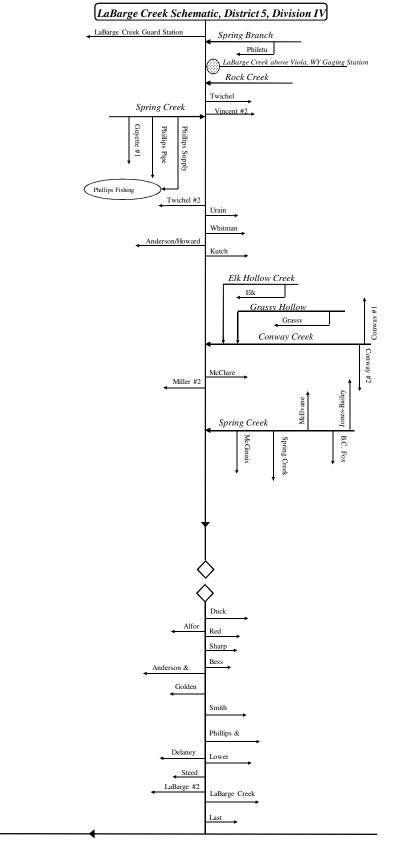


North Cottonwood Creek

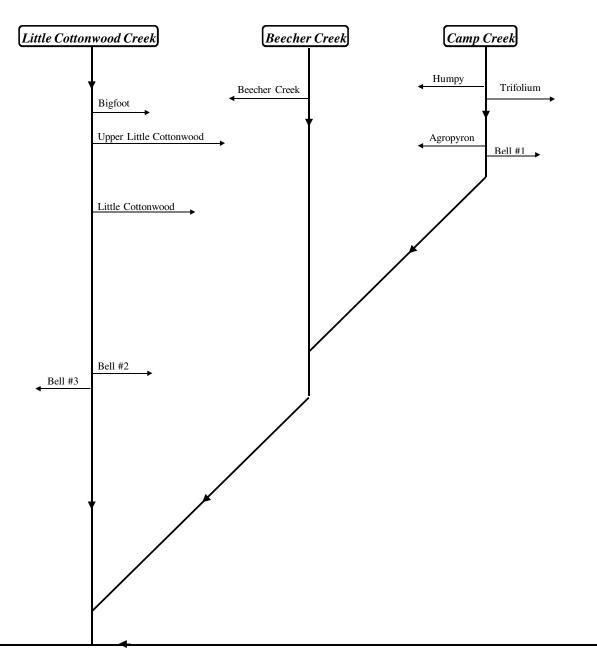
LaBarge Creek Stream Schematic



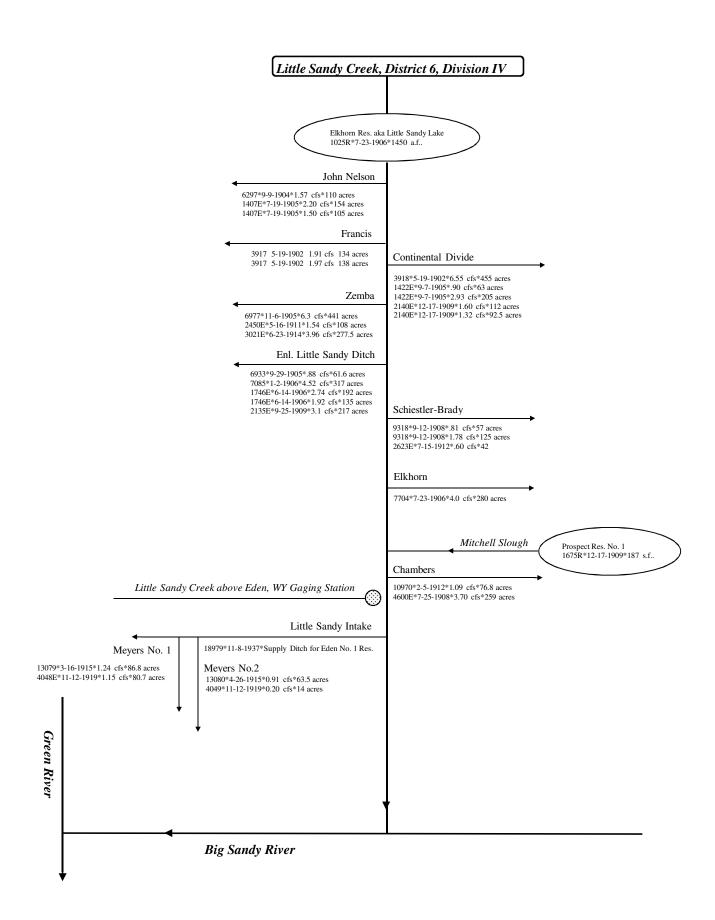
Green River

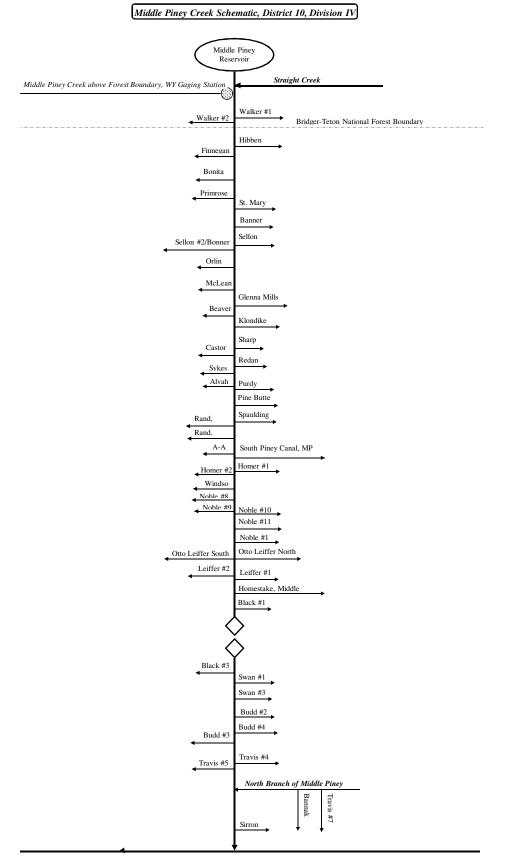


Green River

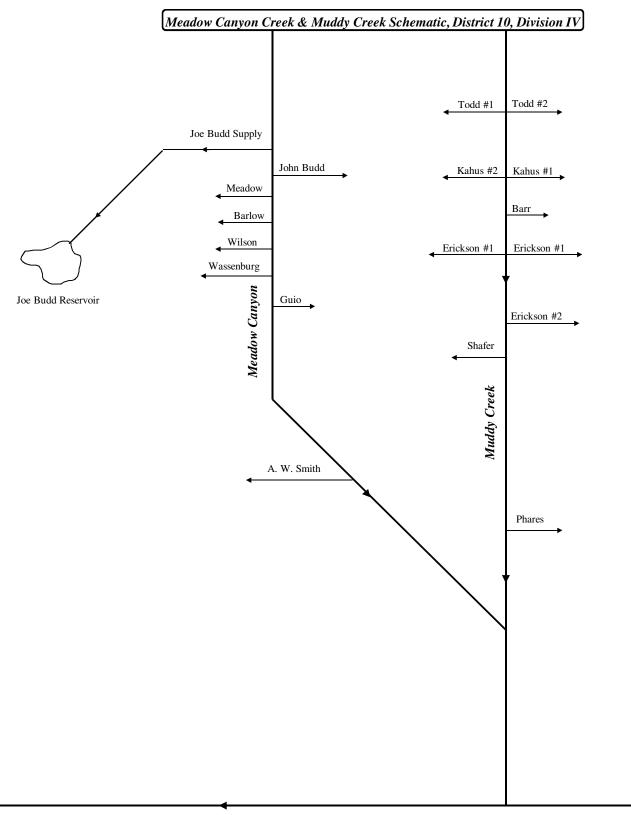


South Cottonwood Creek

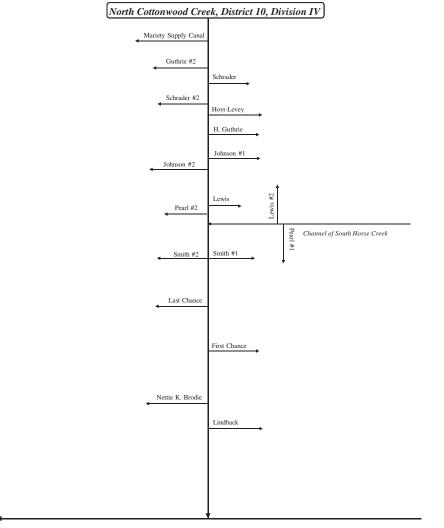




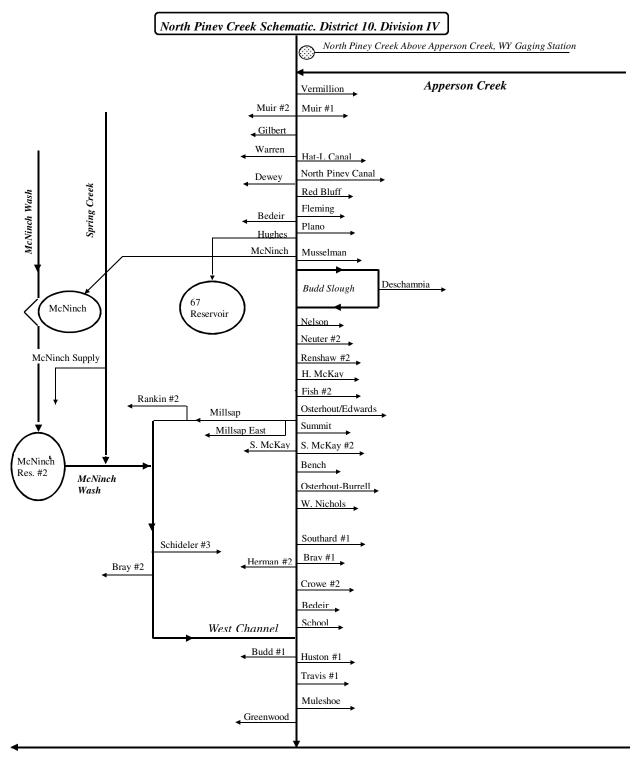
Green River



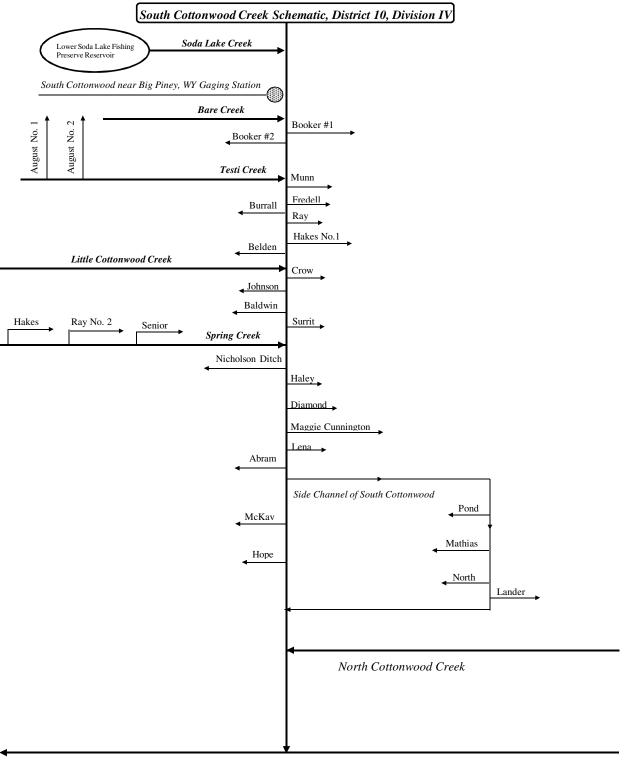
Green River



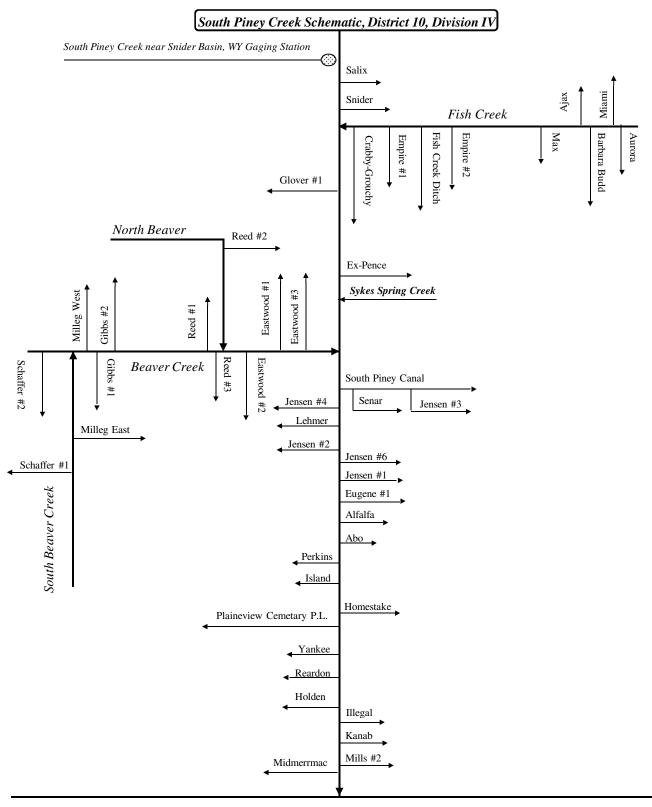
South Cottonwood Creek



Green River



Cottonwood Creek



Green River

**APPENDIX J** 

**IRRIGATION SURFACE WATER RIGHTS** 

DITCH NAME	DIE 5.1.1 ITTIGATION/SUITAC	PERMIT #		CFS	ACRES	CREEK
A. Pomeroy	Rodwell Ranches, LLC	Terr.	5/1/1891	0.9	60	Fontenelle Ck
A. W. Smith		6643	5/13/1905	5.35	375	Meadow Canyon Ck
A-A		22652	4/1/1965			Middle Piney Ck
Abo	Miller L&L	10400	12/21/1910	<b>S.S.</b>	34	South Piney Ck
Abo	Miller L&L	425	2/27/1893	2.28	160	South Piney Ck
Abo Abo	Miller L&L Miller L&L	Terr.	4/20/1887 5/00/1882	0.14 0.72	10 50	South Piney Ck
Abo	Miller L&L	Terr. 6150	7/30/1882	1.21	85	South Piney Ck South Piney Ck
Abo	Miller L&L	6317E	9/30/1969	0.4	28	South Piney Ck
Abo	Miller L&L	6318E	9/30/1969	0.34	24	South Piney Ck
Abram	Ball	11135	1/4/1912	2.33	163	Cottonwood Ck
Ada		2372	11/18/1899	7	490	Green River
Ada		1719E	6/3/1907	0.88	62	Green River
Ada		1942E	8/3/1908	3.24	227	Green River
Agropyron	Cottonwood Ranches	21322	12/7/1953	0.73	51	Cottonwood Ck
Ajax	Flying W L&L D. Luce	3116E	1/13/15 8/21/1909	0.26 0.78	18	South Piney Ck South Piney Ck
Ajax Albout	Miller Land & Livestock	11840 2275	9/18/1899	3.93	55 275	Cottonwood Ck
Alfalfa	Merril Rees	19796	7/20/1943	0.1; s.s	7;5	South Piney Ck
Alford		413E	4/28/1899	1.67	117	La Barge Ck
Alford	Flying W L&L, JF Ranch	Terr.	5/13/1886	14.7	1030	La Barge Ck
Allen		6375	9/28/1921	0.96	67	Dry Piney Ck
Alvah	Thompson	2184	6/24/1899	4.29	300	Middle Piney Ck
Anderson & Bess	JF Ranch, A. Garcia	Terr.	3/17/1889	2.28	160	La Barge Ck
Anderson & Howard		Terr.	10/1/1890	1	70	La Barge Ck
Anderson & Howard	For Decisi	584E	10/10/1900	1.85	130	La Barge Ck
Anderson & Howard Anderson & Howard	Fox Ranch Fox Ranch	370E 371E	10/4/1898 10/4/1898	2.28 2.28	160 160	La Barge Ck La Barge Ck
Anderson & Howard	Fox Ranch	5655E	10/4/1898	10.58	741.06	La Barge Ck
Anderson & Howard	Riverside Livestock	669	3/15/1894	13.23, s.s.	987.35	La Barge Ck
Anderson & Howard		643E	4/1/1901	0.57	40	La Barge Ck
Anderson & Howard		6369E	4/22/1970	3	210	La Barge Ck
Anderson & Howard	D. Grant	Terr.	6/1/1880	3.57	250	La Barge Ck
Anderson & Howard		722E	9/2/1901	0.57	40	La Barge Ck
Anderson & Howard	Riverside Livestock	464E	9/21/1899	5.14	360	La Barge Ck
Anderson & Howard		583E	9/4/1900	2.49	175	La Barge Ck
Antelope		6813	6/27/1905	2.99	210	Killpecker Ck
Ariel August No. 1	J. Mulinsky	11193 21883	3/13/1912 2/15/1958	0.54	38 86	Green River Cottonwood Ck
August No. 2	J. Mulinsky	21885	8/15/1958	0.58	41	Cottonwood Ck
Aurora	Miller L&L	3116E	1/13/1915	0.26	18	South Piney Ck
Aurora	D. Luce	2169	7/13/1899	2.67	187	South Piney Ck
Aurora	D. Luce	2793E	8/21/1909	0.4	28	South Piney Ck
B. C. Fox		15528	7/21/1919	1.3	91	La Barge Ck
Baldwin		4052	7/16/1902	6.02	422	Cottonwood Ck
Bannack	B. Barney	6334E	11/03/1969	0.54	20	Middle Piney Ck
Bannack Banner	B. Barney	Terr. 6153E	6/00/1887 3/28/1962	0.54 0.19	39 13	Middle Piney Ck Middle Piney Ck
Banner	Thompson	2246	8/31/1899	1.03	72	Middle Piney Ck
Banner	Thompson	8005	9/27/1907	0.46	32	Middle Piney Ck
Barbara Budd	Budd Ranches	21784	1/16/1956	9.88	691.78	South Piney Ck
Barbara Budd	Budd Ranches	6162E	4/17/1963	3.98	279	South Piney Ck
Barbara Budd	Budd Ranches	2794E	8/21/1909	0.99	69	South Piney Ck
Barbara Budd	Budd Ranches	6470E	9/25/1973	Supply Ditch		South Piney Ck
Barlow	Dill Domoni	21241	5/3/1953	0.28	20	Meadow Canyon Ck
Barney Pivot No. 1 Pipeline Barr	Bill Barney	31526 5503	1/7/1993 1243	s.s. 1.18	140 83	Green River Muddy Ck
Barr Barr		2828E	4923	1.18	135	Muddy Ck Muddy Ck
Basin #2		6443	1/5/1905	1.55	110	Fontenelle Ck
Beaver	R. Springman	952E	11/19/1902	0.5	35	Middle Piney Ck
Beaver	Budd Ranches	Terr.	1889	3.9	273	Middle Piney Ck
Beaver	Budd Ranches	323E	3/9/1898	1.77	125	Middle Piney Ck
Beaver	R. Springman	459E	8/12/1899	1.9	132	Middle Piney Ck
Beaver		19760	9/30/1942	0.3	21	Middle Piney Ck
Bedier	D. H.D	628E	2/25/1901	4	280	North Piney Ck
Bedier Beegber Creek	Budd Ranches	2582	4/28/1900	6.25	439 11.04	North Piney Ck
Beecher Creek Belden	Cottonwood Ranches J. Mulinsky	19700 2735	10/8/1941 7/25/1900	0.16 3.05	255	Cottonwood Ck Cottonwood Ck
Bell #1	Cottonwood Ranches	15135	7/5/1900	1.61	113	Cottonwood Ck
Bell #2	Cottonwood Ranches	15135	7/5/1918	0.74	52	Cottonwood Ck
Bell #2	Cottonwood Ranches	15130	7/5/1918	0.38	27	Cottonwood Ck
Bench	Alsade Ltd.	1544	7/6/1897	1.7	120	North Piney Ck
Benen		11709	2/3/1913	1.71	120	Killpecker Ck
Berdie's		11705				
Berdie's Bess	Flying W L&L	Terr.	3/17/1889	1.42	100	La Barge Ck
Berdie's Bess Beta	R. McNeel	Terr. Terr.	3/17/1889 4/15/1889	1.9	133	Cottonwood Ck
Berdie's Bess		Terr.	3/17/1889			

Table 5.1.1 Irrigation/Surface Water Rights Tabulation

DITCH NAME	APPROPRIATOR	-	PRIORITY	CFS	ACRES	CREEK
Booker #1	J. Mulinsky	3993	6/9/1902	5.57	390	Cottonwood Ck
Booker #1	J. Mulinsky	3992	6/9/1902	6.7	470	Cottonwood Ck
Booker #1	J. Mulinsky	3511E	8/11/1915	2.55	179	Cottonwood Ck
Booker #2	J. Mulinsky	6134	7/20/1904	3.42	240	Cottonwood Ck
Booker Supplemental		14018	5789	0.26	18	Killpecker Ck
Booker Supplemental		14018	5789	S.S.	138	Killpecker Ck
Bryan/Ardie Bryan/Ardie		1499E	1/6/1906 12/27/1904	0.88	62 273	Cottonwood Ck Cottonwood Ck
Bryan/Ardie		6451 2610	5/12/1904	0.85	60	Cottonwood Ck Cottonwood Ck
Bryan/Ardie(cont.)		3528E	1/5/1916	0.16	11	Cottonwood Ck
Bryson #1	Diamond H Ranch	13008	5430	2.58	181	Fontenelle Ck
Bryson #2	Diamond H Ranch	13009	5430	0.7	49	Fontenelle Ck
Budd #1	Alsade Ltd.	Terr.	5/20/1889	1.1	78	North Piney Ck
Budd #1	Alsade Ltd.	5900E	6/20/1955	<b>S.S.</b>	199	North Piney Ck
Budd #2	K. Guio	Terr.	5/20/1886	1.67	118	Middle Piney Ck
Budd #3	K. Guio K. Guio	Terr.	5/20/1886	4.4	313 193	Middle Piney Ck
Budd #4 Burrall	J. Mulinsky	Terr. 3321	5/20/1886 7/18/1901	2.75 4.0	280	Middle Piney Ck Cottonwood Ck
Burrall	J. Mulinsky	2645E	7/19/1912	2.46	172	Cottonwood Ck
Butler #1	Exxon/Mobil Corp.	13022	1/13/1915	1.42	100	Dry Piney Ck
Butler #2	Exxon/Mobil Corp.	13023	1/13/1915	0.67	47	Dry Piney Ck
Canyon	Jerry Hunt	1633	10/22/1897	4.22	296	Fontenelle Ck
Castor	Budd Ranches	952E	11/19/1902	1.14	80	Middle Piney Ck
Castor	Budd Ranches	Terr.	1889	0.91	64	Middle Piney Ck
Clementsen #2		7090	2/15/1906	2.21	155	Green River
Clementsen #2 Conway #1	D. Grant	3166E 3147E	5/10/1915 3/24/1915	0.44 0.76	31 53	Green River La Barge Ck
Conway #1 Conway #1	D. Grant	8417	4/27/1913	1.11	78	La Barge Ck
Conway #1 Conway #2	N. Gardner	8418	4/27/1908	0.34	24	La Barge Ck
Cottonwood Canal		8795-11890	12/22/1908	49.71	3481	Cottonwood Ck
Crabby-Grouchy		1340E	3/3/1905	0.07	5	South Piney Ck
Crabby-Grouchy	Flying W L&L	2170	7/13/1899	0.5	35	South Piney Ck
Crandall		5766E	10/4/1954	2.02	142	Green River
Crandall Crow	J. Mulinsky	5923 2839	4/2/1904 9/25/1900	4.2	294 137	Green River Cottonwood Ck
Crow Dan Schmid Fish Out Reservoir	Dan Schmid	10298R	9/25/1900	41.48 a.f.	137	Green River
Dan Schmid Supply Pipeline	Dan Schmid	31515	1/29/1996	0.7		Green River
Danielson		8162	1/6/1908	0.44	31	Green River
Delaney	K. Buck	4973E	11/5/1934	3.77	263.91	La Barge Ck
Delaney	K. Buck	414E	5/18/1898	0.2	14	La Barge Ck
Delaney	K. Buck, A. Vickery	Terr.	5/20/1891	4.19	293	La Barge Ck
Della F. Johnson		7544	11/21/1906	2.02	142	Killpecker Ck
Dewey Dewey	Flying W L&L G. Mickelson	5220 1236E	12/15/1902 6/24/1904	0.57	40 140	North Piney Ck North Piney Ck
Dewey	G. Mickelson	1236E	8/9/1898	11.83	830	North Piney Ck
Diamond	S. Mickelson	2871E	11/13/1913	1.14	80	Cottonwood Ck
Diamond	Ball	3279	7/15/1901	6.7	480	Cottonwood Ck
Diamond		955E	9/25/1902	1.71	120	Cottonwood Ck
Dry Piney	JF Ranch	Terr.	9/24/1887	2.63	185	Dry Piney Ck
Dry Piney North Fork	G. Ellingford	Terr.	1883	1.3	90	Dry Piney Ck
Duck Pond	R. Okelberry	Terr.	6/1/1880	0.26	18	La Barge Ck
East Side Eastwood #1	Thompson	2543 Terr.	4/12/1900 1889	9.08 1.81	635.75 127	Green River South Piney Ck
Eastwood #1 Eastwood #2	Thompson Thompson	Terr.	1889	0.22	127	South Piney Ck
Eastwood #2 Eastwood #3	Thompson	Terr.	1889	0.22	50	South Piney Ck
Elk Hollow	D. Grant	9897	5/31/1910	S.S.	115	La Barge Ck
Empire #1	Flying W L&L	1340E	3/3/1905	0.07	5	South Piney Ck
Empire #1	Flying W L&L	2170	7/13/1899	1.43	100	South Piney Ck
Empire #2	Flying W L&L	1340E 2089E	3/3/1905 6/21/1909	0.65 2.6	46 182	South Piney Ck South Piney Ck
Empire #2 Empire #2	Thompson Thompson	2089E 4099	6/21/1909 8/9/1902	3.11	218	South Piney Ck
Enl. Phares	- Anompoon	2856E	5002	2.63	184	Meadow Canyon Ck and Muddy Ck
Enl. Phares		2942E	5062	0.57	40	Meadow Canyon Ck and Muddy Ck
Enl. Phares		4806E	11897	1.29	90	Meadow Canyon Ck
Erickson No. 1		14259	6052	2.02	142	Muddy Ck
Erickson No.2		14260	6052	0.78	55	Muddy Ck
Essex Essex	Cottonwood Ranches Cottonwood Ranches	5768E 2544	12/6/1954 4/13/1900	5.29 12.31	371 863	Cottonwood Ck Cottonwood Ck
Essex	Cottonwood Ranches	2544 1588E	4/13/1900 8/17/1906	0.57	40	Cottonwood Ck
Essex Eugene #1	Miller L&L	6318E	9/30/1969	0.37	16	South Piney Ck
Ex-Pence	Miller L&L	3597	12/9/1901	4.24	296.81	South Piney Ck
Ex-Pence	Miller L&L	5836E	2/23/1956	4.63; s.s.	324; 230	South Piney Ck
Ex-Pence	Miller L&L	885E	7/22/1902	2.76	193.79	South Piney Ck
Exxon's Shute Creek Pipeline	Exxon/Mobil Corp.	29509	10/23/1986	0.13		Green River
Fender	Cottonwood Ranches	2657	6/13/1900	1.3	90	Cottonwood Ck
Field	Cottonwood Ranches	2560	4/17/1900	1.92	135	Cottonwood Ck Middle Biney Ck
Finnegan Finnegan		21683 3320	10/20/1955 7/18/1901	2.02 3.03	142 214	Middle Piney Ck Middle Piney Ck
Finnegan	Thompson	2245	8/31/1899	3.36	235	Middle Piney Ck
Finnegan	Thompson	19512	9/4/1934	0.43	30	Middle Piney Ck
First Chance	Ryegrass Ranch	5895	7/10/1903	1.35	95	Cottonwood Ck

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

ib CrockTompor98819978091.42.00Soft Pay CA.ib CrockTompor1002.344.00Soft Pay CA.ib CrockTompor1002.344.00Soft Pay CA.ib CrockDompor1001214.012.344.20Soft Pay CA.Ib CrockBall Ranche1001001.242.00Soft Pay CA.Soft Pay CA.Unstantifie Last Soft PartsEXD, Brazes of Reclamation0.0011.422.00Concell Ca.Unstantifie Last Soft PartsPay FastPartsParts1.0011.142.00Concell Ca.Unstantifie Pay FastPay FastPartsPartsParts1.0011.141.001<		.1 Irrigation/Surface Wat					,
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instand:	Fontenelle #1		Terr.	Spring 1878		250	
instead:IntroNor.Monitory<	Fontenelle East Side and West Side Res.	USDI, Bureau of Reclamation					
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circn River Island:Condell Water Water         61.98         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         44.1963         64.19         56.66         Green River           scrent River Island:Condell Waste Water         4705         61.57         1.84         1.30         Green River           scrent River Island:Condell Waste Water         787.8         78.1901         4.94         1.30         Green River           scrent River Supply Catal         10419         122.1910         6.18.5         3.44         Green River           scrent River Supply Catal         10419         122.1910         6.8.5         3.481         Green River           scrent River Supply Catal         2.165         6.241.198         0.30         2.35         Madoor Catoor           scrent River Supply Catal         2.166         0.319         0.31         2.166         Catalowa           scrent River Supply Catal         2.166         0.319         0.35         Madoor Catoor         Catalowa         2.161         12.171         11.171         1.171         1.171         1.171         1.171         1.171         1.171         1.171         1.171 <t< th=""><th>Green River Island/Cowdell Waste Water</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Green River Island/Cowdell Waste Water						
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Dress National Condell Waset Water         6/15/1923         1.04         73.1         Green River           Dress River Island/Condell Waset Water         Terr.         Spr. 1889         1.84         1.30         Green River           Dress River Supply Canal         10419         1.2/38/1912         3.13         2.20         Green River           Dress River Supply Canal         10419         1.2/38/1912         5.3.13         2.214         Green River           Dress River Supply Canal         2.2676         6.24/1965         4.0         3.48         Green River           Dress River Supply Canal         2.2678         6.24/1965         4.0         3.48         Green River           Staffer #2         Antelope Rin Ranch         2.8798         1.11/911913         4.57         2.20         Costnowood Ck           Staffer #2         Antelope Rin Ranch         2.8116         1.2211913         1.51         1.00         La Barge Ck           Staffer #2         Antelope Rin Ranch         2.1717         1.11/191913         0.63         Costnowood Ck           Staffer #2         Antelope Rin Ranch         2.171         1.11/191913         0.63         Notelope Ringe Ck           Staffer #2         Antelope Rin Ranch         3.71         2.20194         3	Green River Island/Cowdell Waste Water						
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incre Nier Island/Cowdell Waste Waster Was							
Price Nurp Suppl Canal         H188         1/28/1921         3.13         219         Green River           Sireen River Supply Canal         -         4104E         3/23/1920         6.s.s.         343         Koren River           Sireen Nover Supply Canal         -         22876         6.3/1958         4.9         343         North Piney CK.           Sinther #2         Antclope Run Ranch         22198         6.7/1958         6.3         344         Connowood CK.           Suthrie #2         Antclope Run Ranch         9491         1.29/1909         3.7         259         Cotnonwood CK.           Suthrie #2         Antclope Run Ranch         12161         1.238/1913         1.9         0.6         Cotnonwood CK.           Suppt Ent         J. Mickelson         737         1.72         1.11/171858         595         North Pincy CK.           I. McKay         J. Mickelson         7371         2.72/1922         2.44         312         North Pincy CK.           I. McKay         J. Mickelson         6375E         4/09/1970         0.3         6.5         North Pincy CK.           I. McKay         J. Mickelson         7371         2.72/1921         2.24         160         North Pincy CK.           I. McKay <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Diren River Supply Can.l         International         Internaternational         Internaternaternational							
press         pres         press         press <thp< th=""><th>Green River Supply Canal</th><th></th><th></th><th></th><th></th><th></th><th></th></thp<>	Green River Supply Canal						
inin         control         21895         6/3/1958         0.36         25         Meadox Caryon Ck           inthrie #2         Antelope Rm Ranch         2870E         11/19/1913         4.57         320         Cottonwood Ck           inthrie #2         Antelope Rm Ranch         9401         12/9/106         6.33         444         Cottonwood Ck           inthrie #2         Antelope Rm Ranch         12/11         11/19/1913         0.06         Cottonwood Ck           inthrie #2         Antelope Rm Ranch         12/13         1.11         1.06         La Barge Ck           Catherice         Antelope Rm Ranch         12/13         1.11         1.06         La Barge Ck           I. McKay         J. Mickelson         7371         22/01/902         2.44         1.31         North Pingy Ck           I. McKay         J. Mickelson         6371         2/201/902         2.28         160         North Pingy Ck           I. McKay         J. Mickelson         836E         5/16/1902         2.28         160         North Pingy Ck           I. McKay         J. Mickelson         836E         5/16/1902         2.28         2.20         Cottonwood Ck           Inters         11/212         19/211         2.24	Green River Supply Canal		4104E		6, s.s.	3481	Green River
andreipe Run Ranch         2879E         11/19/1913         4.57         320P         Cottonwood Ck           authrie #2         Andelope Run Ranch         3641E         52/01/916         6.33         444C         Cottonwood Ck           authrie #2         Andelope Run Ranch         12161         12081013         1.51         1066         La Barge Ck           Loutherie         Andelope Run Ranch         12173         11/19/1913         0.9         6.3         Cottonwood Ck           Loutherie         J. Mickeloan         7371         12/201/902         4.44         North Piney Ck           LotKay         J. Mickeloan         6375E         409/1970         0.93         65         North Piney Ck           LotKay         J. Mickeloan         836E         51/6/1902         2.28         160         North Piney Ck           LotKay         J. Mickeloan         836E         51/6/1902         2.28         160         North Piney Ck           Lakes #1         A         102/21         12/24         157         Cottonwood Ck           Lakes         1         162/41         92/4121         2.24         157         Cottonwood Ck           Lakes         1         102/21         19/91/41         1.54	Greenwood	Bar Flying V (J. Greenwood)	22676		4.9		North Piney Ck
iathrie #2         Antelope Run Ranch         9491         12/9109         3.7         259         Cottonwood Ck           iaynthe #2         Antelope Run Ranch         12161         12/8018         1.51         106         La Barge Ck           iaynte #1         Antelope Run Ranch         12173         1.119/1913         0.9         6.63         Cottonwood Ck           i. McKay         J. Mickelson         3731         2/01902         4.44         312         North Piney Ck           i. McKay         J. Mickelson         6752         4/091970         0.36         6.5         North Piney Ck           i. McKay         J. Mickelson         6376         4/091970         0.28         North Piney Ck           i. McKay         J. Mickelson         856E         5/161902         2.28         160         North Piney Ck           iakes #1         1         9/18192         2.44         157         Cotonwood Ck           iakes #1         1         9/1914         1.54         108         Genen River           iamap No. 1         12020         1/9/1914         1.54         108         Green River           iamap No. 2         1.017         Green River         10019         1.127         1016	Guio						
iathré #2         Anteloge Run Ranch         3641E         526/191         6.33         444         Cotonwood Ck           Loutherie         Anteloge Run Ranch         12173         11/9/1913         1.0         10.6         La Barge Ck           Loutherie         Anteloge Run Ranch         12173         11/9/1885         8.5         595         North Piney Ck           Lockay         J. Mickelson         7371         2/0/1902         4.44         312         North Piney Ck           Lockay         J. Mickelson         635E         5/16/1902         2.28         160         North Piney Ck           Lockay         J. Mickelson         836E         5/16/1902         2.28         160         North Piney Ck           Lockay         J. Mickelson         836E         5/16/1902         2.28         160         North Piney Ck           Lakes d1         10         7/5/1918         3.44         260         Cotonwood Ck           Lakey         Ball         3738         3/6/1902         3.28         230         Cotonwood Ck           Lakey         Hait         12/202         1/9/1914         1.47         117         Green River           Lakey         Jontionstorthemey         3/21         6/2/192<							
any etc.         Bill Bashice         12161         12161         151         106         La Barge Ck           L Gutheric         Antolope Run Ranch         12173         11/19/1913         0.9         6.3         Cottonwood Ck           L McKay         J. Mickelson         771         11/12/1985         8.5         595         North Piney Ck           L McKay         J. Mickelson         6375E         4/09/1970         4.44         512         North Piney Ck           L McKay         J. Mickelson         856E         5/16/1902         2.28         160         North Piney Ck           L McKay         J. Mickelson         856E         5/16/1902         2.28         160         North Piney Ck           Lakes fl							
Löutherie         Antelope Ran Ranch         12173         11/19/183         0.9.         6.3.         Cottomwood Ck.           LMeKay         J. Mickelson         Tr.         11/12/1885         8.55         595         North Piney Ck.           LMeKay         J. Mickelson         63751         4/09/1970         0.93         65         North Piney Ck.           LMeKay         J. Mickelson         836E         5/16/1902         2.2.8         160         North Piney Ck.           LMeKay         J. Mickelson         836E         5/16/1902         2.2.8         160         North Piney Ck.           LMeKay         J. Mickelson         836E         5/16/1902         2.2.8         160         North Piney Ck.           Lakes          15199         7/5/1918         3.84         2.69         Cottomwood Ck.           Lakes          1202         1/9/194         1.67         117         Green River           Lamp No. 1          1202         1/9/194         1.54         108         Green River           Lankin Brothers         Robert Krall         9470E         5.23         306         Fortenelle Ck           Lamsh Brothers         Robert Krall         24705         166.374 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
I. Mickay         J. Mickelson         Terr.         II/I2 1885         8.5         System         North Piney Ck.           I. MeKay         J. Mickelson         3731         2/20/1902         4.44         312         North Piney Ck.           I. MeKay         J. Mickelson         6375E         4/09/1970         0.93         65         North Piney Ck.           I. Mickay         J. Mickelson         836E         5/16/1902         2.28         160         North Piney Ck.           I. Mickay         J. Mickelson         836E         5/16/1902         2.28         160         North Piney Ck.           Lakes #1         1         16241         9/28/1921         2.24         157         Cottonwood Ck.           Lakes #1         1         1202         19/9104         1.54         108         Green River           Lamp No. 1         1203         19/9104         1.67         117         Green River           Lamkin Brothers         Robert Krall         9469         3572         5.23         366         Formenelle Ck.           Lankin Brothers         Robert Krall         2235         1663.74         Green River         1021         1/13/1915         3.24         27.19         Green River							
LMcKay         J. Mickelson         3731         2201/902         4.44         312         North Piney Ck           LMcKay         J. Mickelson         635         400/1970         0.93         65         North Piney Ck           LMcKay         J. Mickelson         836E         5116/1902         2.28         160         North Piney Ck           LMcKay         J. Mickelson         836E         5116/1902         2.28         160         North Piney Ck           Lakes         16241         928/1921         2.24         157         Cotonwood Ck           Lakes         15199         75/1918         3.44         269         Cotonwood Ck           Lamp No.1         1202         1/9/1914         1.54         108         Green River           Lamp No.2         Encore         North Piney Ck         11202         1/9/1914         1.54         108         Green River           Lankin Brothers         Robert Krall         9406         3572         5.23         366         Fontenelle Ck           Lankin Brothers         Robert Krall         24028         24737         0.24         17         Fontenelle Ck           Lankin Brothers         Robert Krall         2102         1/13/1915         2.4	H. McKay						
I. McKay         J. Mickelson         836E         5/16/1902         2.28         160         North Piney Ck           LMcKay         J. Mickelson         856E         5/16/1902         2.28         160         North Piney Ck           Lakes         16241         9/28/1921         2.24         157         Cottonwood Ck           Lakes #1         15199         7/5/1918         3.44         269         Cottonwood Ck           Lamp No.1         1202         1/9/1914         1.54         108         Green River           Lamp No.2         1202         1/9/1914         1.54         108         Green River           Lankin Brothers         Robert Krall         9469         3572         5.23         366         Fontenelle Ck           Lankin Brothers         Robert Krall         2760E         4737         0.24         17         Fontenelle Ck           Lankin Brothers         Robert Krall         2823E         4956         0.09         6         Fontenelle Ck           Lankin Brothers         Robert Krall         2824E         4956         0.09         Fontenelle Ck           Lankin Brothers         Robert Krall         280         Fontenelle Ck         Eanaw           Lankin Brothers	H. McKay	J. Mickelson		2/20/1902	4.44	312	
I. Mickay         J. Mickelson         856E         5/16/1902         2.28         160         North Pincy Ck           takes #1         16241         9/28/1921         2.24         157         Cottonwood Ck           takes #1         15199         7/5/1918         3.84         269         Cottonwood Ck           tamp No.1         Ball         3738         3/6/1902         3.28         230         Cottonwood Ck           tamp No.1         Contonwood Ck         12020         1/9/1914         1.67         1117         Green River           tamp No.2         Robert Krall         9469         3572         5.23         366         Fontenelle Ck           tankin Brothers         Robert Krall         2760E         4737         0.24         17         Fontenelle Ck           tankin Brothers         Robert Krall         2760E         4717         0.24         174         Green River           tankin Brothers         Robert Krall         2760E         4717         0.24         184         066374           tankin Brothers         Robert Krall         277         5.23         0.66         Fontenelle Ck           tankin Brothers         Robert Krall         277         5.24         184         0.79<	H. McKay						
Takes         16241         928/1921         2.24         157         Cotonwood Ck           lakes #1         15199         7/5/1918         3.84         269         Catonwood Ck           lang         3738         3/6/1902         3.28         230         Cotonwood Ck           lamp No. 1         12202         1/9/1914         1.54         108         Green River           lamp No. 2         12203         1/9/1914         1.54         108         Green River           lankin Brothers         Robert Krall         9469         5372         523         366         Fontenelle Ck           lankin Brothers         Robert Krall         2760E         4737         0.24         17         Fontenelle Ck           lankin Brothers         Robert Krall         2823E         4956         0.09         6         Fontenelle Ck           lanan         6035E         4/14/1960         3.24         227.19         Green River           lanan         6035E         4/14/1960         3.24         227.19         Green River           lanan         1021         1/13/1915         3.84         Dry Piney Ck         24           larrower North         Lilian Harrower         13021         1/13/1915 </th <th>H. McKay</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	H. McKay						
lakes #1Instant151997/5/19183.842.09Cottonwood CklakyBall37383/6/19023.28230Cottonwood Cklamp No. 1122021/9/19141.54108Green Riverlamp No. 2122031/9/19141.67117Green Riverlankin BrothersRobert Krall946935725.23366Fontenelle Cklankin BrothersRobert Krall2760E47370.2417Fontenelle Cklankin BrothersRobert Krall2823E49560.096Fontenelle Cklankin BrothersRobert Krall2823E49560.096Fontenelle Cklankin BrothersRobert Krall2823E4946923.751663.74Green Riverlanan141212/18/189623.751663.74Green Riverlanan14121/13/1952.64184.66Dry Piney Cklarower NorthLilian Harrower130211/13/19153.812.67Dry Piney Cklarower SouthLilian Harrower3941E9/17/19180.553.84Dry Piney Cklat-LG. Mickelson38218261.42100North Piney Cklat-LG. Mickelson233510/24/18992.81Promey Cklat-LG. Mickelson233510/24/18951.1581Fontenelle Cklated63091/17/19180.32CCottonwood CkClated6.1112<	H. McKay	J. Mickelson					
Ialey         Ball         3738         3/6/1902         3.28         230         Cottonwood Ck           Iamp No. 1         12202         1/9/1914         1.54         108         Green River           Iamp No. 2         12203         1/9/1914         1.67         117         Green River           Iamkin Brothers         Robert Krall         9469         5372         5.23         366         Fontenelle Ck           Iankin Brothers         Robert Krall         2760E         4737         0.24         17         Fontenelle Ck           Iankin Brothers         Robert Krall         2823E         4956         0.09         6         Fontenelle Ck           Iankin Brothers         Robert Krall         2823E         4916         0.24         127.147         Green River           Ianan         1412         121/18/1896         23.75         166.37.4         Green River           Iansen         1412         121/18/1896         2.37.5         166.67.4         Green River           Iansen         13021         11/13/1915         2.64         184.66         Dry Pincy Ck           Iarrower North         Lilian Harrower         13021         11/13/1915         3.81         267         Dry Pincy Ck <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Iamp No. 1         12202         1/9/1914         1.54         108         Green River           Iamp No. 2         1/9/1914         1.67         117         Green River           Iamp No. 2         5402E         6/20/145         0.56         39         Green River           Iankin Brothers         Robert Krall         9469         3572         5.23         366         Fontenelle Ck           Iankin Brothers         Robert Krall         2282E         4956         0.09         6         Fontenelle Ck           Iankin Brothers         Robert Krall         2823E         4956         0.09         6         Fontenelle Ck           Ianna         1412         12/18/1896         23.75         1663.74         Green River           Ianna         6035E         41/4/1960         3.24         22.719         Green River           Ianrower North         Lilian Harrower         13021         1/13/1915         3.84         Dy Piney Ck           Iarrower North         Lilian Harrower         3941E         9/17/1918         2.2         153.66         Dry Piney Ck           Iart-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iart-L		Ball					
Iamp No.2122031/9/19141.67117Green RiverIamp No.25402E6/26/19450.5639Green RiverIamkin BrothersRobert Krall946035725.23366Fontenelle CkIankin BrothersRobert Krall270E47370.2417Fontenelle CkIankin BrothersRobert Krall2821E49560.096Fontenelle CkIanna141212/18/189623.751663.74Green RiverIanna6035E4/14/19603.24227.19Green RiverIanna17Torr.Summer 18811.2890Fontenelle CkIarrower NorthLilian Harrower3941E9/17/19182.2153.66Dry Piney CkIarrower SouthLilian Harrower3941E9/17/19180.3538.4Dry Piney CkIat-LG. Mickelson38218261.42100North Piney CkIat-LG. Mickelson232510/28/1892.8197North Piney CkIat-LG. Mickelson232510/28/1892.8195North Piney CkIat-LG. Mickelson232510/28/1892.8195North Piney CkIat-LG. Mickelson232510/28/1890.372.6Cotonwood CkIat-LG. Mickelson232510/28/1890.5535.54Green RiverIat-LG. Mickelson232611/31/19151.158Fontenelle CkIat-L		Dall					
Ianp No. 2S402E6/26/19450.5639Green RiverIankin BrothersRobert Krall946935725.23366Fontenelle CkIankin BrothersRobert Krall2760E47370.2417Fontenelle CkIankin BrothersRobert Krall2823E49560.096Fontenelle CkIanna6035E4/14/19603.24227.19Green RiverIanna6035E4/14/19603.24227.19Green RiverIanna10211/13/19152.64184.66Dry Piney CkIarrower NorthLilian Harrower130211/13/19152.64184.66Dry Piney CkIarrower SouthLilian Harrower3941E9/17/19183.81267Dry Piney CkIartower SouthLilian Harrower3941E9/17/19183.81267Dry Piney CkIat-LG. Mickelson38218261.42100North Piney CkIat-LG. Mickelson38218232.81197North Piney CkIat-LG. Mickelson23351028/18992.8195North Piney CkIat-LG. Mickelson132817/31/19151.1581Fontenelle CkIat-LG. Mickelson23351028/18992.8195North Piney CkIat-LG. Mickelson132817/31/19151.1581Fontenelle CkIat-LG. Mickelson132817/31/19151.1581Fontenelle Ck<	Hamp No. 2						
lankin BrothersRobert Krall2760E47370.2417Fontenelle Cklankin BrothersRobert Krall2823E49560.096Fontenelle Cklana141212/18/180623.751663.74Green Riverlana6035E4/14/19603.24227.19Green Riverlana6035E4/14/19603.24227.19Green Riverlana7err.Summer 18811.2890Fontenelle Cklarower NorthLilian Harrower130211/13/19152.64184.66Dry Piney Cklarower SouthLilian Harrower3941E9/17/19180.5538.4Dry Piney Cklarower SouthLilian Harrower3941E9/17/19180.5538.4Dry Piney Cklart-LG. Mickelson38218261.42100North Piney Cklat-LG. Mickelson233510/28/18992.8195North Piney Ck </th <th>Hamp No. 2</th> <th></th> <th>5402E</th> <th>6/26/1945</th> <th>0.56</th> <th>39</th> <th></th>	Hamp No. 2		5402E	6/26/1945	0.56	39	
Lankin Brothers         Robert Krall         2823E         4956         0.09         6         Fontenelle Ck           Lanna         1412         12/18/1896         23.75         1663.74         Green River           Lanna         6035E         4/14/1960         3.24         227.19         Green River           Lansen         Terr.         Summer 1881         1.28         900         Fontenelle Ck           Larrower North         Lilian Harrower         13021         1/13/1915         2.64         184.66         Dry Piney Ck           Larrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Lat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Lat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Lat-L         G. Mickelson         2335         10/28/189         2.8         195         North Piney Ck           Lat-L         G. Mickelson         13281         7/31/1915         1.15         81         Fontenelle Ck           Lat-L         G. Mickelson         1394         718/1913         0.37         26 <th>Hankin Brothers</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Fontenelle Ck</th>	Hankin Brothers						Fontenelle Ck
Ianna         1412         12/18/1896         23.75         1663.74         Green River           Ianna         6035E         4/14/1960         3.24         227.19         Green River           Iansen         Terr.         Summer 1881         1.28         90         Fontenelle Ck           Iarrower North         Lilian Harrower         13021         1/13/1915         2.64         184.66         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         2.2         153.66         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iart-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/199         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1993         3.7	Hankin Brothers						
Ianna6035E4/14/19603.24227.19Green RiverIansenTerr.Summer 18811.2890Fontenelle CkIarrower NorthLilian Harrower130211/13/19152.64184.66Dry Piney CkIarrower SouthLilian Harrower3941E9/17/19182.2153.66Dry Piney CkIarrower SouthLilian Harrower130211/13/19153.81267Dry Piney CkIarrower SouthLilian Harrower3941E9/17/19180.5538.4Dry Piney CkIat-LG. Mickelson881532432.81197North Piney CkIat-LG. Mickelson233510/28/18992.8195North Piney CkIat-LG. Mickelson233210/28/18992.8195North Piney CkIat-LG. Mickelson233217/13/19151.1581Fontenelle CkIat-LG. Mickelson233217/13/19130.3726Cotonwood CkIat-LG. Mickelson113947/18/19130.3726Cotonwood CkIat-LG. Mickelson113947/18/19130.3726Cotonwood CkIat-LG. Mickelson132817/13/19151.42100Green RiverIat-LG. Mickelson132817/13/19130.3726Cotonwood CkIat-LG. Mickelson132817/18/19130.3726Cotonwood CkIat-LGreen River10091.42100<		Robert Krall					
Tansen         Ter.         Summer 1881         1.28         90         Fontenelle Ck           Iarrower North         Lilian Harrower         13021         1/13/1915         2.64         184.66         Dry Piney Ck           Iarrower North         Lilian Harrower         3941E         9/17/1918         2.2         153.66         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iart-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iat-L         G. Mickelson         3821         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2355         1028/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         13281         7/31/1915         1.15         81         Fontenelle Ck           Iat-L         G. Mickelson         13281         7/31/1915         1.15         81         Fontenelle Ck           Iat-L         G. Mickelson         1							
Iarrower North         Lilian Harrower         13021         1/13/1915         2.64         184.66         Dry Piney Ck           Iarrower North         Lilian Harrower         3941E         9/17/1918         2.2         153.66         Dry Piney Ck           Iarrower South         Lilian Harrower         13021         1/13/1915         3.81         267         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iart-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/189         2.8         195         North Piney Ck           Iat-L         G. Mickelson         13281         7/31/1915         1.15         81         Fontenelle Ck           Iatede         G. Mickelson         13281         7/31/1915         1.12         100         Green River           Iedin & Slate         Gene River         5590         10/8/1903         1.42         100         Green River           Iedin & Slate	Hanna						
Iarrower North         Lilian Harrower         3941E         9/17/1918         2.2         153.66         Dry Piney Ck           Iarrower South         Lilian Harrower         13021         1/13/1915         3.81         267         Dry Piney Ck           Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iat-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         1321         7/13/1915         1.15         81         Fontenelle Ck           Iayden         Rimfire Ranch         11394         7/18/1913         0.37         2.6         Cotonwood Ck           Iedin & Slate         6310E         12/12/1907         0.26         18         Green River           Iedin & Slate         6108E         3/11/1963         1.72         121         Green River           Iedin & Slate         2097         4/25/1899         0.	Harrower North	Lilian Harrower					
Iarrower South         Lilian Harrower         3941E         9/17/1918         0.55         38.4         Dry Piney Ck           Iat-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         13281         7/31/1915         1.15         81         Fontenelle Ck           Iat-Mach         11394         7/18/1913         0.37         2.6         Cottonwood Ck           Iat-Mach         1005         12/19/1905         1.42         1000         Green River           Iedin & Slate          6310E         12/16/1968         0.51	Harrower North						
Iat-L         G. Mickelson         3821         826         1.42         100         North Piney Ck           Iat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-E         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-E         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-E         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-E         Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iat-E         Middel         13381         7/31/1913         0.37         2.8         105         North Piney Ck           Iate         Middel         10/90         1.42         100         Green River           Iedin & Slate         Geen River         13281         17/11/906	Harrower South						
Iat-L         G. Mickelson         8815         3243         2.81         197         North Piney Ck           Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iattie         13281         7/31/915         1.15         81         Fontenelle Ck           Iayden         Rimfire Ranch         11394         7/18/1913         0.37         2.6         Cotonwood Ck           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         6310E         12/12/1907         0.26         18         Green River           Iedin & Slate         2/18/1913         1.72         121         Green River           Iedin & Slate         2/19/1906         34         24         Green River           Iedin & Slate         2/19/1906	Harrower South						
Iat-L         G. Mickelson         2335         10/28/1899         2.8         195         North Piney Ck           Iattie         13281         7/31/1915         1.15         81         Fontenelle Ck           Iayden         Rimfire Ranch         11394         7/18/1913         0.37         2.6         Cottonwood Ck           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         2097         4/25/1899         0.17         121         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         194         3281         7/13/1901         2         140         North Piney Ck           Iedin & Slate         197         3281         7/13/1901         2         140         North Piney Ck           Iedin & Slate         114E         4/	Hat-L						
Iattie         13281         7/31/1915         1.15         81         Fontenelle Ck           Iayden         Rimfire Ranch         11394         7/18/1913         0.37         26         Cottonwood Ck           Iedin & Slate         5590         10/8/1903         1.42         100         Green River           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         6310E         12/16/1968         0.51         35.54         Green River           Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         3281         7/13/1901         2         140         North Piney Ck           Ierman #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           Iibben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           Iighline         11138         1/17/1912							
Iayden         Rimfire Ranch         11394         7/18/1913         0.37         26         Cottonwood Ck           Iedin & Slate         5590         10/8/1903         1.42         100         Green River           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         6310E         12/16/1968         0.51         35.54         Green River           Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         6198E         3/11/1963         1.72         121         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Ierman #2         3281         7/13/1901         2         140         North Piney Ck           Iibben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           Iibben         Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           Iighline         11138         1/17/1912	Hat-L Hattie	G. MICKEISUI					
Iedin & Slate         5590         10/8/1903         1.42         100         Green River           Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         6310E         12/16/1968         0.51         35.54         Green River           Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         6198E         3/11/1963         1.72         121         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Ierman #2         2097         4/25/1899         0.17         12         Green River           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           Iibben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           Iighline         11138         1/17/1912         4.35         305         Green River           Iighline         2029         1/19/1904         1.03	Hattle	Rimfire Ranch					
Iedin & Slate         9059         12/12/1907         0.26         18         Green River           Iedin & Slate         6310E         12/16/1968         0.51         35.54         Green River           Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         6198E         3/11/1963         1.72         121         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Ierman #2         2097         4/25/1899         0.17         12         Green River           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           Iibben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           Iighline         11138         1/17/1912         4.35         305         Green River           Iighline         2029         1/9/1904         1.03         72         Green River	Hedin & Slate						
Iedin & Slate         1502E         2/19/1906         .34         24         Green River           Iedin & Slate         6198E         3/11/1963         1.72         121         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Iedin & Slate         2097         4/25/1899         0.17         12         Green River           Ieeman #2         3281         7/13/1901         2         140         North Piney Ck           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           libben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/9/1904         1.03         72         Green River	Hedin & Slate						
Idein & Slate         6198E         3/11/1963         1.72         121         Green River           Idein & Slate         2097         4/25/1899         0.17         12         Green River           Ierman #2         3281         7/13/1901         2         140         North Piney Ck           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           libben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/9/1904         1.03         72         Green River	Hedin & Slate						
Iden & Slate         2097         4/25/1899         0.17         12         Green River           Iernan #2         3281         7/13/1901         2         140         North Piney Ck           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           libben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           lighline         Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           lighline         2029         1/19/1899         16.11         1128         Green River           lighline         2029         1/9/1904         1.03         72         Green River	Hedin & Slate						
Iterman #2         3281         7/13/1901         2         140         North Piney Ck           Ierschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           Iibben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           Iibben         Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           Iighline         11138         1/17/1912         4.35         305         Green River           Iighline         2029         1/191899         16.11         1128         Green River           Iighline         5773         19/1904         1.03         72         Green River	Hedin & Slate						
Iterschler #2         Jerry Hunt         114E         4/30/1895         1.57         110         Fontenelle Ck           libben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           libben         Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/191899         16.11         1128         Green River           lighline         5773         1/9/1904         1.03         72         Green River							
libben         Budd Ranches         Terr.         5/00/1889         2.14         153         Middle Piney Ck           libben         Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/19/1899         16.11         1128         Green River           lighline         5773         1/9/1904         1.03         72         Green River		Jerry Hunt					
Budd Ranches         5506         5/25/1903         1.14         80         Middle Piney Ck           lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/19/1899         16.11         1128         Green River           lighline         5773         1/9/1904         1.03         72         Green River	Herschler #2 Hibben						
lighline         11138         1/17/1912         4.35         305         Green River           lighline         2029         1/19/1899         16.11         1128         Green River           lighline         5773         1/9/1904         1.03         72         Green River	Hibben						
Itighline         2029         1/19/1899         16.11         1128         Green River           Ighline         5773         1/9/1904         1.03         72         Green River	Highline						
	Highline						
Iighline         1453E         10/20/1905         0.29         20         Green River	Highline						
	Highline		1453E	10/20/1905	0.29	20	Green River

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

	APPROPRIATOR	PERMIT #	PRIORITY	`	ACRES	СКЕЕК
DITCH NAME Highline	APPROPRIATOR	1447E	10/9/1905	CFS 8.68	608.95	Green River
Highline		1708E	11/12/1906	8.86	619.98	Green River
Highline		3582	12/11/1901	5.83	400.66	Green River
Highline		607E	12/22/1900	1.33	92	Green River
Highline		3632	5/3/1916	3.07	215	Green River
Hill		1625	10/15/1897	10.52	737	Green River
Hill		4992E	11/5/1934	2.08	146	Green River
Hill Hill		2583E 812E	12/1/1911 4/10/1902	7.44 6.61	521.78 463	Green River Green River
Hill		6423E	4/10/1902 5/7/1971	3.11	218	Green River
Hill		1913E	6/30/1908	6.43	450	Green River
Holden	Miller L&L	476E	11/18/1899	1.71	120	South Piney Ck
Holden	Miller L&L	1221	4/27/1896	4.55	318.34	South Piney Ck
Holden	Miller L&L	Terr.	5/00/1888	1.52	108	South Piney Ck
Holden Irrigation #1 & #2	Diamond H Ranch	Terr.	6/1/1878	2.0	120	Fontenelle Ck
Holden Irrigation #3 & #4	Diamond H Ranch	Terr.	9/00/1888	6.28	440	Fontenelle Ck
Homer #1	Merril Rees	517	6/6/1893	4.43	311	Middle Piney Ck
Homer #2	Merril Rees	518	6/6/1893	3.42	240	Middle Piney Ck
Homestake Homestake	Miller L&L	1429 1353	10/12/1896 10/23/1896	6.84 1.06	480 74	South Piney Ck
Homestake	Miller L&L Miller L & L	Terr.	10/23/1896	0.63	44	South Piney Ck Middle Piney Ck
Homestake	Miller L&L	Terr.	1885	5.55	388	South Piney Ck
Homestake	Miller L&L	Terr.	5/1/1885	3.33	240	South Piney Ck
Homestake	Miller L&L	3177	5/13/1901	0.79	55	South Piney Ck
Homestake	Miller L&L	10714	5/26/1911	1.17	82	South Piney Ck
Homestake	Miller L&L	2476E	5/26/1911	0.57	40	South Piney Ck
Homestake	Miller L&L	2477E	5/26/1911	0.26	18	South Piney Ck
Homestake	Miller L & L	Terr.	6/00/1885	0.54	37	Middle Piney Ck
Homestake	Miller L & L	Terr.	6/1/1884	S.S.	414	Middle Piney Ck
Homestake Homestake	Miller L & L	Terr.	6/1/1884	5.92	414	Middle Piney Ck
	Miller L&L	Terr.	6/1/1884	5.92	414	South Piney Ck
Homestake Hope	Miller L&L Cottonwood Ranches	6320E 3394	9/30/1969 9/4/1901	3.53; s.s. 5.75	247.33; 380 403	South Piney Ck Cottonwood Ck
Horse Ranch	JF Ranch	Terr.	1888	1.36	95	Dry Piney Ck
Horseshoe Bend Water Haul	Exxon/Mobil Corp.	23268	12/9/1969	0.22	,,,	Green River
Howard	Diamond H Ranch	10940	8/28/1911	0.81	57	Fontenelle Ck
Hoyt-Levey	Antelope Run Ranch	13326	7/6/1915	1.31	92	Cottonwood Ck
Hughes	J. Mickelson	649	2/12/1894	3.52	248	North Piney Ck
Hughes	Reservoir Ranch	6099	7/8/1904			North Piney Ck
Humpy	Cottonwood Ranches	21323	12/7/1953	2.54	178	Cottonwood Ck
Huston #2	F. D. Ball III	2959	12/14/1900	2.76	193	North Piney Ck
Illegal	Miller L&L	23253	9/30/1969	0.17	12	South Piney Ck
Island Island	Fear Ranches	Terr. Terr.	4/00/1888 4/20/1887	2.85 0.73	200 51	Fontenelle Ck South Piney Ck
Island	Rimfire Ranch	1530	7/20/1887	4.75	345	Cottonwood Ck
Iuka	Kinnie Kalen	5008E	1/28/1935	2.8	196	Green River
Iuka		2365	11/18/1899	4.14	290	Green River
James #1	Lance and Nina Hill	11780	9/12/1930	1.66	115.22	Green River
James #2	Lance and Nina Hill	11782	9/12/1930	0.49	34	Green River
Jensen #2	Flying W L&L	6894E	1/28/1988	0.26	18	South Piney Ck
Jensen #2	Flying W L&L	Terr.	6/00/1889	3.04	211	South Piney Ck
Jensen #3	Flying W L&L	Terr.	6/00/1889	2.5	174	South Piney Ck
Jensen #4 Jensen #4	Flying W L&L	1062E 5501	5/20/1903 5/20/1903	3.5 0.33	245 23	South Piney Ck
Jensen #4 Jensen #4	Flying W L&L Flying W L&L	5501 Terr.	5/20/1903 6/00/1889	0.33	38	South Piney Ck South Piney Ck
Jensen #4	Flying W L&L	681E	7/13/1901	1.52	107	South Piney Ck
Jensen #5	Flying W L&L	Terr.	6/00/1889	0.52	37	Middle Piney Ck
Jensen #6	Flying W L&L	Terr.	6/00/1889	0.24	16	South Piney Ck
Jigger	R. McNeel	6450	12/27/1904	2.51	176	Cottonwood Ck
Jigger		3910E	6/6/1918	0.71	50	Cottonwood Ck
Joe Budd Supply	ļ	19484	12/12/1940	Supply Ditch		Meadow Canyon Ck
John Budd		17841	1/22/1930	S.S.	708	Meadow Canyon Ck
John Budd		5654E	1/29/1932 7/16/1902	5.01; s.s.	351; 40	Meadow Canyon Ck
Johnson Johnson #1	Antelope Run Ranch	4054 12669	7/16/1902 8/29/1914	2.05 0.76	144 53	Cottonwood Ck Cottonwood Ck
Johnson #1 Johnson #2	Antelope Run Ranch	12669	8/29/1914 8/29/1914	0.76	53	Cottonwood Ck
Jones #1	Larry Cook	6309	1760	4.01	281	Fontenelle Ck
Jones #1	Larry Cook	2767E	10/16/1912	0.29	20.9	Fontenelle Ck
Jones-Bailey	M. Looney, Viola Subdivision	3148E	4/9/1915	0.49	34	La Barge Ck
Jones-Bailey	M. Looney, Viola Subdivision	11309	6/10/1912	4.27	299	La Barge Ck
Jones-Bailey	D. Bomeke	6772E	6/16/1983	0.79	55	La Barge Ck
Jones-Bailey	N. Gardner, Grey	NA		S.S.	24	La Barge Ck
Kahus No. 1		18742	13334	1.33	93	Muddy Ck
Kahus No. 2	D. Demos	18743	13334	0.28	20	Muddy Ck
Kanab	B. Barney	Terr.	1886	0.5	35	South Piney Ck
Kanab Kemper #2	B. Barney Bill Barney	Terr. 4083	1886 8/6/1902	2.25	159 124	South Piney Ck Green River
Kemper #2 Kid's Pond	Ryegrass Ranch	4083 9715R	8/6/1902	1.77 13.33 a.f.	124	Cottonwood Ck
King	Miller Land & Livestock	Terr.	5/00/1890	2.45	172	Cottonwood Ck
Klondike	R. Springman	2108	4/27/1899	1.21	85	Middle Piney Ck
Knackstedt		3897	5/17/1902	2.28	160	Killpecker Ck
Khacksteut						

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

	1.1 IIIgation/Surface wat	_			-	
DITCH NAME	APPROPRIATOR		PRIORITY	CFS	ACRES	CREEK
Krall #3	Diamond H Ranch	17778	11060	<b>S.S.</b>	68	Fontenelle Ck
Krall A	Diamond H Ranch	15255	6751	0.51	36	Fontenelle Ck
Krall B	Diamond H Ranch	15256	6752	0.45	32	Fontenelle Ck
Kutch	D. Grant	Terr.	3/25/1879	1.43	100	La Barge Ck
LaBarge #2		Terr.	5/1/1891	6.85	480	La Barge Ck
LaBarge #2		6341E	7/1/1969	2.8	196	La Barge Ck
LaBarge #2		Terr.	7/6/1889	1.74	122	La Barge Ck
LaBarge #2		Terr.	8/1/1889	3.1	217	La Barge Ck
LaBarge Creek	JF Ranch	Terr.	7/6/1889	0.86	60	La Barge Ck
LaBarge G. S. Pipeline	USDA, Forest Service	21216	6/5/1953	0.02		La Barge Ck
LaBarge Pipeline	Town of LaBarge	24979	12/8/1975	1.33		Green River
Lasich #1	Diamond H Ranch	14219	7/11/1916	0.47	33	Fontenelle Ck
Lasich #2	Diamond H Ranch	14220	7/11/1916	2.91	204	Fontenelle Ck
Lasich Supplemental	Diamond H Ranch	18732	3/25/1935	s.s.	237	Fontenelle Ck
Last	JF Ranch	Terr.	7/6/1889	2.89	202.1	La Barge Ck
Last Chance	Ryegrass Ranch	1181E	10/30/1903	5.27	370	Cottonwood Ck
Last Chance	Ryegrass Ranch	1187E	5/27/1908	0.57	40	Cottonwood Ck
Last Chance	Ryegrass Ranch	5893	7/10/1903	2.95	207	Cottonwood Ck
Lawrence	Cottonwood Ranches	1505E	1/10/1906	2.83	198	Cottonwood Ck
Lawrence	Cottonwood Ranches	5478E	1/10/1949	10.55	739	Cottonwood Ck
Lawrence	Cottonwood Ranches	3395	9/4/1901	16.75	1174	Cottonwood Ck
Lehmer	Miller L&L	Terr.	4/20/1887	1.86	130	South Piney Ck
Lehmer	Flying W L&L	833E	5/16/1902	0.19	13	South Piney Ck
Lehmer		5501	5/20/1903	0.24	17	South Piney Ck
Lehmer		681E	7/13/1901	0.09	6	South Piney Ck
Lehmer	Miller L&L	6321E	9/30/1969	0.13	9	South Piney Ck
Lewis	Antelope Run Ranch	5365	3/20/1903	0.92	65	Cottonwood Ck
Lewis #2	Antelope Run Ranch	7683	9/20/1907	3.48	244	Cottonwood Ck
Lina		1937E	7/16/1908	1.75	123	Cottonwood Ck
Lina	Ball	3288	7/9/1901	4.57	320	Cottonwood Ck
Lindback	Ryegrass Ranch	7604	11/13/1906	2.15	151	Cottonwood Ck
Little Cottonwood	Cottonwood Ranches	12093	10/18/1913	4.21	295	Cottonwood Ck
Lowe	G. Ellingford	Terr.	1886	1	70	Dry Piney Ck
Lower Bedeir	Ŭ	3043	2/27/1901	4.95	348	North Piney Ck
Lower Soda Lake Fishing	Bridger National Forest	7522R	1/31/1973	18.78 a.f.		Cottonwood Ck
Lower Spur	JF Ranch	Terr.	7/6/1889	8.13	569.42	La Barge Ck
Lower Spur	JF Ranch	Terr.	Spr. 1886	0.31	22	La Barge Ck
Luman		5006E	1/28/1935	1.07	75	Green River
Luman		12802	10/21/1914	1.21	85	Green River
Luman		812E	4/10/1902	0.24	17	Green River
Luman		6422E	5/7/1971	0.51	36	Green River
Luman		3648E	6/19/1916	1.22	86	Green River
Luoma		20326	1/23/1950	0.23	15.8	Green River
Luoma		5686E	5/7/1953	0.19	13.1	Green River
Luoma No. 2 Pipeline		21234	5/7/1953	0.36	25	Green River
Luoma No. 3 Pipeline		21235	5/7/1953	0.08	5.5	Green River
Maggie Cunnington	Ball	4037	7/7/1902	1.42	100	Cottonwood Ck
Marie		7431	10/2/1906	1.06	74	Fontenelle Ck
Marie #2		8001	9/13/1907	0.61	43	Fontenelle Ck
Marie #3		8003	9/13/1907	0.43	30	Fontenelle Ck
Marie #4		8002	9/13/1907	0.26	18	Fontenelle Ck
Mariety Supply Canal		21130	3/26/1952	9.36	656	Cottonwood Ck
Mathias	Wardell	7307	3/25/1906	2.96	226	Cottonwood Ck
Max	Thompson	4099	8/9/1902	1.23	86	South Piney Ck
McClure	R. Okelberry	11225	10/7/1911	0.23	16	La Barge Ck
McCray		Terr.	5/00/1886	1.42	100	Fontenelle Ck
McGinnis		8118	10/1/1932	0.5	35	Dry Piney Ck
McGinnis	R. Okelberry	Terr.	5/1/1890	1.14	80	La Barge Ck
McGinnis	R. Okelberry	Terr.	5/15/1878	4.01	281	La Barge Ck
McGinnis	R. Okelberry	22744	5/16/1962	0.23	16	La Barge Ck
McGinnis	R. Okelberry	345E	5/6/1898	0.25	6	La Barge Ck
Mcllvane	H. Eccles	Terr.	4/15/1887	2	140	La Barge Ck
McHvane	*** 200103	2908E	1/31/1914	1.13	79	Cottonwood Ck
McKay		11786	1/4/1912	2.26	158	Cottonwood Ck
McKay		11/80	10/24/1912	0.18	138	Cottonwood Ck
McKay		11930	10/24/1911	0.18	12.0	Cottonwood Ck
McKay		2894E	11/29/1913	0.14	38	Cottonwood Ck
McKay	Wardell	5017	8/25/1902	1.48	105.5	Cottonwood Ck
McLean	R. Springman	3662E	2/23/1902	0.23	105.5	Middle Piney Ck
McLean	R. Springman	10797	5/26/1911	1.34	94	Middle Piney Ck
McNinch	K. Springman K. McNinch	5844E	5/16/1955	4.12	288.64	North Piney Ck
Meadow	ix, moralloli	10241	10/12/1910	4.12	127	Meadow Canyon Ck
Meadow Mercer(Claunch)	Cottonwood Ranches	3074	11/12/1910	2.31	127	Cottonwood Ck
			5/14/1900			
Mercer(Claunch) Miami	Cottonwood Ranches Flying W L&L	2616 1789E	5/14/1900	1.92	135 91	Cottonwood Ck South Piney Ck
Miami						
	Flying W L&L	1339E	3/3/1905	0.5	35	South Piney Ck
Miami Midua annua a	Flying W L&L	2168	7/13/1899	2.58	181	South Piney Ck
Midmerrmac	McGinnis & Brawley	15349	1/15/1919	1.48	103.94	South Piney Ck
Midmerrmac	B. Barney	11079E	11/23/1911	0.04	3	South Piney Ck
Midmerrmac	B. Barney	23294	11/3/1969	2.19	153.15	South Piney Ck South Piney Ck
Midmerrmac	B. Barney	Terr.	1886	0.13	9	

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

DITCH NAME	APPROPRIATOR	PERMIT #	PRIORITY	CFS	ACRES	СКЕЕК
Midmerrmac	B. Barney	822E	4/24/1902	3.36	235	South Piney Ck
Midmerrmac	B. Barney	Terr.	5/00/1887	2.28	160	South Piney Ck
Midmerrmac	B. Barney	1896	6/23/1898	3.1	217	South Piney Ck
Midmerrmac	B. Barney	3035	8/28/1914	0.6	42	South Piney Ck
Milleg East	B. Milleg	21359	1/11/1954	0.46	32	South Piney Ck
Milleg West	B. Milleg	21358	1/11/1954	1.33	93	South Piney Ck
Miller #2	R. Okelberry	Terr.	6/15/1882	0.85	60	La Barge Ck
Mills	Miller I & I	13233	6/7/1915	1.61	113	Dry Piney Ck
Mills #2 Millsap #2	Miller L&L J. Mickelson	Terr. Terr.	5/00/1889 5/10/1889	1.2 1.67	84 117	South Piney Ck North Piney Ck
Millsap #2	J. Mickelson	1822	5/13/1898	1.58	117	North Piney Ck
Millsap East	J. Mickelson	23493	4/9/1970	0.84	59	North Piney Ck
Millsap East	J. Mickelson	Terr.	5/10/1889	0.18	13	North Piney Ck
Minnehaha No. 1	Jerry Hunt	4047	7/10/1902	4.28	300	Fontenelle Ck
Muleshoe	B. Barney	2959	12/14/1900	1.03	72	North Piney Ck
Muleshoe	B. Barney	Terr.	5/1/1888	1.44	102	North Piney Ck
Muleshoe	B. Barney	5976E	5/13/1958	0.34	24	North Piney Ck
Munn		5913E	11/18/1957	7.14	500	Cottonwood Ck
Munn		956E	11/28/1902	6.85	480	Cottonwood Ck
Munn	Bar Flying V	3854	4/29/1902	11.42	800	Cottonwood Ck
Munn		5912E	5/15/1957	2.19	153	Cottonwood Ck
Munn		880E	7/10/1902 10/12/1899	9.14 1.36	640 90	Cottonwood Ck North Piney Ck
Musselman Musselman	Spencer	472E 6003E	3/9/1959	2.45; s.s.	172; 135	North Piney Ck
Musselman	Alsade Ltd.	Terr.	4/10/1889	4.19	294	North Piney Ck
Musselman	A STORE	Terr.	4/10/1889	0.64	45	North Piney Ck
Musselman	Alsade Ltd.	437E	6/12/1899	1.65	115	North Piney Ck
Musselman	Spencer	3921E	7/6/1918	2	140	North Piney Ck
Nelson	Alsade Ltd.	1819	5/9/1898	3.4	237	North Piney Ck
Nelson	Alsade Ltd.	1135E	8/19/1903	2.64	185	North Piney Ck
Nelson	Alsade Ltd.	5585	8/19/1903	0.21	15	North Piney Ck
Nelson	Alsade Ltd.	5218E	8/27/1935	0.27	19	North Piney Ck
Nelson	Alsade Ltd.	5721	9/3/1903	0.16	11	North Piney Ck
Nettie K. Brodie	Ryegrass Ranch	14588	1/8/1917	1.93	135	Cottonwood Ck
Nicholson	Ball	6360	12/1/1904	1.13	79	Cottonwood Ck
Noah Nabla #10	Millon I. e. I	6520	2/10/1905	1.07	75	Killpecker Ck
Noble #10 Noble #11	Miller L & L Miller L & L	23251 Terr.	9/30/1969 11/15/1885	2.13	149	Middle Piney Ck Middle Piney Ck
Noble #11 Noble #11	Miller L & L Miller L & L	Terr. Terr.	11/15/1885	0.34	24	Middle Piney Ck Middle Piney Ck
Noble #11	Miller L & L	Terr.	11/15/1885	3.76	24	Middle Piney Ck
Noble #11	Miller L & L	Terr.	6/00/1885	3.97	203	Middle Piney Ck
Noble #11	Miller L & L	23252	9/30/1969	0.5	0.5	Middle Piney Ck
Noble #8	Miller L & L	Terr.	11/15/1885	0.03	2	Middle Piney Ck
Noble #8	Miller L & L	Terr.	5/00/1890			Middle Piney Ck
Noble #8	Miller L & L	Terr.	6/00/1885	0.8	56	Middle Piney Ck
Noble #8	Miller L & L	23249	9/30/1969			Middle Piney Ck
Noble #9	Miller L & L	23250	9/30/1969			Middle Piney Ck
North	Wardell	7695	11/13/1906	0.45	32	Cottonwood Ck
North Piney Canal	Pudd Danahas	3752E	1/27/1917	1.15	81	North Piney Ck
North Piney Canal	Budd Ranches	3753E	1/27/1917	1.04	73	North Piney Ck
North Piney Canal North Piney Canal	Budd Ranches	4808E 582E	10/12/1932 10/3/1900	2.8 6.29	196 590	North Piney Ck North Piney Ck
North Piney Canal	Budd Ranches	8798	12/22/1908	14.56	1020	North Piney Ck
North Piney Canal	G. Mickelson	1142E	12/22/1908	14.30	120	North Piney Ck
North Piney Canal	School Section	3757E	2/09/1917	0.17	120	North Piney Ck
North Piney Canal	Budd Ranches	4659E	2/20/1930	0.83	58	North Piney Ck
North Piney Canal	Budd Ranches	3754E	2/6/1917	0.5	35	North Piney Ck
North Piney Canal	Budd Ranches	3755E	2/6/1917	2.05	144	North Piney Ck
North Piney Canal	Budd Ranches	4660E	4/19/1930	1.31	92	North Piney Ck
North Piney Canal	Budd Ranches	3996E	4/2/1919	1.74	122	North Piney Ck
North Piney Canal	Budd Ranches	4805E	6/15/1932	2.5	175.6	North Piney Ck
North Piney Canal	Budd Ranches	1919	8/6/1898 12/18/1896	8.43	590	North Piney Ck
Olsen-Murdock-Hanna Olsen-Murdock-Hanna		1412 22258	4/14/1960	4.57 2.61	320 183	Green River Green River
Olsen-Murdock-Hanna Olsen-Murdock-Hanna		22258 2656E	7/29/1912	1.23	86	Green River
Orlin #2	R. Springman	2030E	8/31/1899	1.82	128	Middle Piney Ck
Osterhout-Edwards	Alsade Ltd.	5779E	1/18/1955	1.5	105	North Piney Ck
		3544	11/18/1901	7.53	528	North Piney Ck
Osterhout-Edwards	Alsade Ltd.				320	North Piney Ck
	Alsade Ltd. Alsade Ltd.	1013E	4/3/1903	4.57	520	
Osterhout-Edwards Osterhout-Edwards Overland		1013E 1625	10/15/1897	0.2	14	Green River
Osterhout-Edwards Osterhout-Edwards Overland Overland		1013E 1625 2583E	10/15/1897 12/1/1911	0.2 4.14	14 290	Green River
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland		1013E 1625 2583E 6424E	10/15/1897 12/1/1911 5/7/1971	0.2 4.14 2.67	14 290 186.63	Green River Green River
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland		1013E 1625 2583E 6424E 10930	10/15/1897 12/1/1911 5/7/1971 7/8/1911	0.2 4.14 2.67 7.12	14 290 186.63 498.33	Green River Green River Green River
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Overland	Alsade Ltd.	1013E 1625 2583E 6424E 10930 2274	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899	0.2 4.14 2.67 7.12 6.17	14 290 186.63 498.33 432	Green River Green River Green River Green River
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Overland Park #1	Alsade Ltd. Miller Land & Livestock	1013E 1625 2583E 6424E 10930 2274 3524	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901	0.2 4.14 2.67 7.12 6.17 0.92	14 290 186.63 498.33 432 65	Green River Green River Green River Green River Cottonwood Ck
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Park #1 Pearl #1	Alsade Ltd.	1013E 1625 2583E 6424E 10930 2274 3524 6996	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901 10/27/1905	0.2 4.14 2.67 7.12 6.17 0.92 1.07	14 290 186.63 498.33 432 65 75	Green River Green River Green River Green River Cottonwood Ck Cottonwood Ck
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Park #1 Pearl #1 Pearl #2	Alsade Ltd. Miller Land & Livestock	1013E 1625 2583E 6424E 10930 2274 3524 6996 7684	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901 10/27/1905 3/20/1907	0.2 4.14 2.67 7.12 6.17 0.92 1.07 1.15	14 290 186.63 498.33 432 65 75 81.5	Green River Green River Green River Cottonwood Ck Cottonwood Ck Cottonwood Ck
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Overland Park #1 Pearl #1 Pearl #2 Perkins	Alsade Ltd. Miller Land & Livestock	1013E 1625 2583E 6424E 10930 2274 3524 6996 7684 Terr.	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901 10/27/1905 3/20/1907 4/20/1887	0.2 4.14 2.67 7.12 6.17 0.92 1.07 1.15 0.29	14 290 186.63 498.33 432 65 75 81.5 20	Green River Green River Green River Cottonwood Ck Cottonwood Ck Cottonwood Ck South Piney Ck
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Overland Park #1 Pearl #1 Pearl #2 Pearl #2 Perkins Phares	Alsade Ltd. Miller Land & Livestock Ryegrass Ranch	1013E 1625 2583E 6424E 10930 2274 3524 6996 7684 Terr. 10336	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901 10/27/1905 3/20/1907 4/20/1887 10/5/1910	0.2 4.14 2.67 7.12 6.17 0.92 1.07 1.15 0.29 4.04	14 290 186.63 498.33 432 65 75 81.5 20 283	Green River Green River Green River Cottonwood Ck Cottonwood Ck Cottonwood Ck South Piney Ck Meadow Canyon Ck and Muddy Ck
Osterhout-Edwards Osterhout-Edwards Overland Overland Overland Overland Park #1 Pearl #1 Pearl #2 Perkins	Alsade Ltd. Miller Land & Livestock	1013E 1625 2583E 6424E 10930 2274 3524 6996 7684 Terr.	10/15/1897 12/1/1911 5/7/1971 7/8/1911 9/18/1899 11/4/1901 10/27/1905 3/20/1907 4/20/1887	0.2 4.14 2.67 7.12 6.17 0.92 1.07 1.15 0.29	14 290 186.63 498.33 432 65 75 81.5 20	Green River Green River Green River Cottonwood Ck Cottonwood Ck Cottonwood Ck South Piney Ck

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

DITCH NAME	APPROPRIATOR	PERMIT #		CFS	ACRES	CREEK
Phillips & Reel	ATTROTRIATOR	Terr.	7/6/1889	0.81	57	La Barge Ck
Phillips & Reel		Terr.	7/6/1889	2.36	164.86	La Barge Ck
Phillips & Reel	J. Sims	Terr.	Spr. 1886	4.83	338	La Barge Ck
Phillips Fishing Preserve	Bill Busbice	9505R	10/18/1988	8.33 a.f.		La Barge Ck
Phillips Pipeline	Bill Busbice	30063	7/14/1988	0.05		La Barge Ck
Phillips Supply Ditch	Bill Busbice	30295	10/18/1988	6.4	225	La Barge Ck
Pine Butte	Flying W L&L	1640	10/29/1897	3.2	225	Middle Piney Ck
Pine Butte Pioneer	Thompson Jerry Hunt	1640 4048	10/29/1897 7/10/1902	2.28	160	Middle Piney Ck Fontenelle Ck
Pioneer	Jerry Hullt	2925E	9/30/1911	0.94	66	Fontenelle Ck
Plainview Pipeline		29836	6/16/1987	0.31	22	South Piney Ck
Plano	Budd Ranches	2324	10/14/1899	3.92	275	North Piney Ck
Plano	Budd Ranches	5864	7/24/1956	3.45		North Piney Ck
Pomeroy #2		Terr.	Fall 1878	1.6	100	Fontenelle Ck
Pond	Wardell	11930	10/24/1911	1.43	100	Cottonwood Ck
Pond	Wardell	5017	8/25/1902	0.48	33.5	Cottonwood Ck
Pool No. 2		9059	12/12/1907	1.21	85	Green River
Pool No. 2		6309E	12/16/1968	0.14	10	Green River
Pool No. 2 Pool No. 2		6198E 2097	3/11/1963 4/25/1899	0.13	115	Green River Green River
Primrose		6225E	9/20/1966	0.27	115	Middle Piney Ck
Primrose		8004	9/20/1900	0.25	19	Middle Piney Ck
Purdy	Miller L & L	3694E	10/11/1916	2.58	18	Middle Piney Ck
Purdy	Miller L & L	426	7/27/1893	2.38	160	Middle Piney Ck
R. Pomeroy #3		Terr.	7/00/1887	0.85	60	Fontenelle Ck
R. Pomeroy #4		Terr.	Spring 1889	1.07	75	Fontenelle Ck
R. R. Pomeroy #2		Terr.	7/00/1887	1.14	80	Fontenelle Ck
Ranchero/Rodgers	R. McNeel	1783	3/25/1898	5.98	420	Cottonwood Ck
Ranchero/Rodgers		419E	5/11/1899	2.8	195	Cottonwood Ck
Ranchero/Rodgers		8573	7/16/1908	4.08	285.5	Cottonwood Ck
Ranchero/Rodgers	ant.	11117	9/20/1911	1.97	138	Cottonwood Ck
Rand	Thompson Deservation Deservation	3328	7/24/1901	1.21	85	Middle Piney Ck
Rankin #2	Reservoir Ranch	3562	11/18/1901 4/9/1970	0.43	30 19	North Piney Ck
Rankin #2 Rankin #2	J. Mickelson J. Mickelson	6377E Terr.	5/10/1889	0.27	30	North Piney Ck North Piney Ck
Raski	J. Mickelson	14829	6/29/1917	0.45	42	Killpecker Ck
Raski No. 2		15134	7/2/1918	0.4	28	Killpecker Ck
Rathbun & Pomeroy	Rodwell Ranches, LLC	Terr.	5/15/1886	4.0	260	Fontenelle Ck
Rathbun & Pomeroy		231E	9/14/1896	2.35	165	Fontenelle Ck
Ray		2854E	10/10/1913	0.57	40	Cottonwood Ck
Ray		3424	9/14/1901	7.55	650	Cottonwood Ck
Ray No. 2		3696	1/30/1902	0.55	40	Cottonwood Ck
Reardon	Fear Ranches	15349	1/15/1919	5.78	404.82	South Piney Ck
Reardon	Fear Ranches	475E	10/12/1899	9	629.36	South Piney Ck
Reardon	Miller L&L	2005	11/05/1898	4.03	283	South Piney Ck
Reardon	Fear Ranches	11079	11/23/1911	4.39	307.42	South Piney Ck
Reardon Reardon	Fear Ranches Fear Ranches	3748E 23294	11/23/1916 11/3/1969	2.13; s.s. 1.19	149; 10 83.4	South Piney Ck South Piney Ck
Reardon	Fear Ranches	496E	2/2/1900	0.51	36	South Piney Ck
Reardon	Fear Ranches	Terr.	5/00/1887	4.72	330	South Piney Ck
Reardon		3212	5/27/1901	0.55	38.3	South Piney Ck
Reardon	Fear Ranches	1071E	6/10/1903	1.07	75	South Piney Ck
Reardon	Fear Ranches	1509	6/14/1897	7.16	503	South Piney Ck
Reardon	Fear Ranches	1896	6/23/1898	0.19	13	South Piney Ck
Red Bluff	Budd Ranches	2326	10/26/1899	9	670	North Piney Ck
Red Bluff	Flying W L&L	3932E	8/20/1918	0.56	39	North Piney Ck
Red Gap	Flying W L&L	15761	5/13/1920	3.15	221	La Barge Ck
Red Gap	Flying W L&L	2629	5/31/1900	4.92	345	La Barge Ck
Redan Redan	Budd Ranches Budd Ranches	5710E 5667E	12/7/1953 3/30/1953	1.23 2.54	86 178	Middle Piney Ck Middle Piney Ck
Redan Redan	Flying W L&L	655E	5/2/1901	5.28	370	Middle Piney Ck Middle Piney Ck
Redan	Thompson	2185	6/24/1899	1.68	118	Middle Piney Ck
Reed #1	B. Milleg	Terr.	5/20/1889	0.44	32	South Piney Ck
Reed #2	B. Milleg	Terr.	6/00/1889	0.5	34	South Piney Ck
Reed #2	B. Milleg/Thompson	1258E	7/28/1904	1.13	80	South Piney Ck
Reed #3	B. Milleg	5732E	5/11/1954	0.31	22	South Piney Ck
Reed #3	B. Milleg	Terr.	8/00/1889	0.44	32	South Piney Ck
Roberts	Diamond H Ranch	6366	11/30/1904	2.14	150	Fontenelle Ck
S. McKay	Alsade Ltd.	1793	4/4/1898	4.54	310	North Piney Ck
S. McKay	J. Mickelson	23492 Tarr	4/9/1970	1.9	133	North Piney Ck
S. McKay	J. Mickelson	Terr. 1626	7/1/1890 10/18/1897	3.9 4.07	276 284.58	North Piney Ck North Piney Ck
S. McKay #2 S. McKay #2	Alsade Ltd. Alsade Ltd.	319E	2/18/1897	4.07	284.58	North Piney Ck
S. McKay #2 S. McKay #2	Alsade Ltd.	826E	5/10/1902	4.56	320	North Piney Ck
S. McKay #2 S. McKay #2	Alsade Ltd.	5901E	6/20/1955	3.84	269	North Piney Ck
S. McKay #2	J. Mickelson	Terr.	7/1/1890	3.55	250	North Piney Ck
Salix	Budd Ranches	22376	3/21/1961	1.42	100	South Piney Ck
San Juan		3106	4/3/1901	1.51	106	South Piney Ck
Schaffer #1	JF Ranch	29572	10/14/1986	1.23	86	South Piney Ck
Schaffer #2	JF Ranch	29573	10/14/1986	0.24	17	South Piney Ck
School	B.C. & B.M. Milleg	3284	7/13/1901	1.42	100	North Piney Ck

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

	.1 Irrigation/Surface Wat					,
DITCH NAME	APPROPRIATOR	PERMIT #		CFS	ACRES	CREEK
Schrader	Antelope Run Ranch	2906E	11/19/1913	0.53	37	Cottonwood Ck
Schrader	Antelope Run Ranch	8572	6/6/1908	2.06	144.5	Cottonwood Ck
Schrader #2	Antelope Run Ranch	12138	11/19/1913	0.6	42	Cottonwood Ck
Sellon #1	Flying W L&L	5396	4/3/1903	2.28	160	Middle Piney Ck
Sellon #1	Budd Ranches	5396	4/3/1903			Middle Piney Ck
Sellon #2/Donner	Flying W L&L	5397	4/3/1903	2.54	178	Middle Piney Ck
Sellon #2/Donner	Budd Ranches	5397	4/3/1903	0.45	32	Middle Piney Ck
Senar	Thompson	Terr.	1887	1.16	80	South Piney Ck
Senior		3619	12/23/1901	4.58	314	Cottonwood Ck
Shafer		11049	10/23/1911	.91; s.s.	64; 53	Muddy Ck
Shafer		3232E	5/12/1915	s.s.	128	Muddy Ck
Sharp	Budd Ranches	8743	10/2/1908	2	140	Middle Piney Ck
Sharp	Budd Ranches	11077	11/15/1911	1.46	102	Middle Piney Ck
Sharp	Budd Ranches	Terr.	1889	0.04	3	Middle Piney Ck
Sharp	Flying W L&L	14016	2/21/1916	2.34	164	La Barge Ck
Sharp	Budd Ranches	19760	9/30/1942	0.67	47	Middle Piney Ck
Sheep		975E	10/3/1902	2.1	147	Green River
Sheep		943E	11/17/1902	0.49	34	Green River
Sheep		1125E	11/18/1903	4.45	312	Green River
Sheep		1864E	12/14/1907	7.71	540	Green River
Sheep		1198E	5/31/1904	4.4	308.29	Green River
Sheep		3271	6/29/1901	2.57	181	Green River
Sheep		5585E	7/2/1951	2.41	169	Green River
Sheep		2273	9/18/1899	1.71	120	Green River
Sirron	B. Barney	Terr.	Spring 1883	1.21	85	Middle Piney Ck
Slate		2364	11/18/1899	2.21	155	Green River
Slate		6308E	12/5/1968	0.41	28.8	Green River
Smith	J. Sims	15761	5/13/1920	0.61	43	La Barge Ck
Smith	J. Sims	5630E	5/23/1952	2.75	192.52	La Barge Ck
Smith	J. Sims	712	5/5/1894	2.28	160	La Barge Ck
Smith	J. Sims	1508	6/14/1897	2.5	175	La Barge Ck
Smith	J. Sims	Terr.	7/6/1889	0.69	48.05	La Barge Ck
Smith	J. Sims	1149E	7/6/1903	4.57	320	La Barge Ck
Smith #1	Ryegrass Ranch	9667	3/14/1910	1.92	135	Cottonwood Ck
Smith #2	Ryegrass Ranch	9668	3/14/1910	2.16	152	Cottonwood Ck
Snider	Flying W L&L	21493	9/14/1954	1.41	99	South Piney Ck
Soap Hole		14346	8/21/1916	0.65	46	Killpecker Ck
Soaphole		1136E	11/27/1903	2.05	144	Green River
Soaphole		1500E	2/15/1906	1.62	114	Green River
Soaphole		1733	2/5/1898	4.91	344	Green River
Soaphole		2478E	3/9/1911	10.05	704	Green River
Sommers		9233	7/31/1909	2	140	Green River
South Fork	Anne Bagley	13221	5/21/1915	7.17	503	Fontenelle Ck
South Fork	Anne Bagley	4269E	3/25/1921	0.56	39.4	Fontenelle Ck
South Fork	Anne Bagley	4270E	3/25/1921	0.5	35	Fontenelle Ck
South Fork	Anne Bagley	4271E	3/25/1921	0.33	23	Fontenelle Ck
South Fork	Anne Bagley	4557E	9/27/1927	0.74	51.8	Fontenelle Ck
South Fork	Anne Bagley	4701E	1/5/1931	1.52	106.3	Fontenelle Ck
South Piney Canal	Miller L & L	387E	11/7/1898	5.71	400	Middle Piney Ck
South Piney Canal	Miller L&L	387E	11/7/1898	5.71	400	South Piney Ck
South Piney Canal	Miller L&L	10400	12/21/1910	0.09; s.s.	6; 98	South Piney Ck
South Piney Canal	Miller L&L	Terr.	1885	0.01	1	South Piney Ck
South Piney Canal	Miller L & L	259E	6/7/1898	2.86	200	Middle Piney Ck
South Piney Canal	Miller L&L	259E	6/7/1898	2.86	200	South Piney Ck
South Piney Canal	Miller L & L	763	7/11/1894	11.97	840	Middle Piney Ck
South Piney Canal	Miller L&L	763	7/11/1894	11.97	840	South Piney Ck
South Piney Canal	Miller L & L	6319E	9/30/1969	.74; s.s.	51.94;1120	Middle Piney Ck
South Piney Canal	Miller L & L	6319E	9/30/1969	.41; s.s.	29; 5	Middle Piney Ck
South Piney Canal	Miller L&L	6319E	9/30/1969	1.15; s.s.	80.94;1125	South Piney Ck
Spaulding	Miller L & L	Terr.	5/1/1882	2.22	156	Middle Piney Ck
Spaulding	Miller L & L	Terr.	5/15/1886	0.84	60	Middle Piney Ck
Spencer	Miller Land & Livestock	2248	8/31/1899	3.65	256	Cottonwood Ck
Spring		12609	8/10/1914	0.69	48	Killpecker Ck
Spring Creek	H. Eccles	Terr.	5/15/1878	1	70	La Barge Ck
Spring Creek	R. Okelberry	345E	5/6/1898	0.3	21	La Barge Ck
Spring Creek	R. Okelberry	15528	7/21/1919	0.11	8	La Barge Ck
St. Mary	Thompson	8005	9/27/1907	0.57	40	Middle Piney Ck
Steed		414E	5/18/1898	7.57	535.38	La Barge Ck
Steed		6340E	7/1/1969	0.15	10.75	La Barge Ck
Steed		5695E	7/17/1953	1.31	91.75	La Barge Ck
Steed	Dave Schmid	Terr.	8/1/1889	3.43	240	La Barge Ck
Stotts #1	George Archuleta	5914E	1/30/1957	2.24	157	Green River
Stotts #1	George Archuleta	20685	3/9/1951	1.54	108	Green River
Stotts #2	George Archuleta	20686	3/9/1951	1.57	109.56	Green River
Stotts #3	George Archuleta	20687	3/9/1951	1.4	98.08	Green River
Stotts #4	George Archuleta	21860	1/29/1957	1.54	108	Green River
Sublet		2942	11/28/1900	0.41	29	Green River
Sublet		5592E	12/27/1951	1.86	129.49	Green River
Sublet		5557E	12/4/1951	1.7	119.34	Green River
Sublet		5682E	4/8/1953	0.27	18.65	Green River
Summit	J. Mickelson	291E	11/19/1897	2.84	200	North Piney Ck

Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

DITCH NAME	APPROPRIATOR	PERMIT #	PRIORITY	CFS	ACRES	CREEK
Summit	J. Mickelson	6376E	4/9/1970	0.26	18	North Piney Ck
Summit	J. Mickelson	Terr.	5/01/1888	1.46	144	North Piney Ck
Summit	J. Mickelson	1234E	7/1/1904	2.57	180	North Piney Ck
Summit	J. Mickelson	1584	8/16/1897	4	280	North Piney Ck
Superior		13869	11/1/1915	1.94	136	Green River
Superior		3576E	4/16/1916	1.04	73	Green River
Superior		4006E	5/19/1919	1.10	77	Green River
Surrit		3985E	3/17/1919	3.68	258	Cottonwood Ck
Surrit Sutton		15156 606E	7/23/1918 12/22/1900	1.57 1.81	110 127	Cottonwood Ck Green River
Sutton		6305E	12/5/1968	0.57	40	Green River
Sutton		1566	8/11/1897	8.84	630	Green River
Sutton #2		6306E	12/5/1968	0.57	40	Green River
Sutton #2		5064	9/15/1902	2.81	197	Green River
Sykes	Thompson	2183	6/22/1899	5.65	395	Middle Piney Ck
Thornton #1	JF Ranch	Terr.	1886	2.34	164	Dry Piney Ck
Thornton #2	JF Ranch	Terr.	1887	4.74	338	Dry Piney Ck
Thornton #3	JF Ranch	Terr.	1886	5.17	362	Dry Piney Ck
Todd No. 1		14156	6/5/1916	1.74	122	Muddy Ck
Todd No. 2	T. Davis	14157	6/5/1916	1.24	87	Muddy Ck North Piney Ck
Travis #1 Travis #2	T. Davis T. Davis	2347 2340	11/06/1899 11/4/1899	1.36	95 77.89	North Piney Ck Middle Piney Ck
Travis #2 Travis #3	T. Davis	2340	11/4/1899	0.93	65	Middle Piney Ck
Travis #5	T. Davis	3742	3/8/1902	0.93	30	Middle Piney Ck
Travis #5	T. Davis	3743	3/8/1902	0.22	20	Middle Piney Ck
Travis #7	T. Davis	6732	6/10/1905	0.17	12	Middle Piney Ck
Trifolium	Cottonwood Ranches	21324	12/7/1953	0.84	59	Cottonwood Ck
Trueman		Terr.	1888	3.57	250	Green River
Twichel #1	Bill Busbice	974	5/6/1895	0.57	40	La Barge Ck
Twichel #2	Bill Busbice	975	5/6/1895	0.85	60	La Barge Ck
Upper Little Cottonwood	Cottonwood Ranches	19701	10/8/1941	1.81	126.4	Cottonwood Ck
Uraina	B. Thoman	2373	11/20/1899	1.03	72	La Barge Ck
Valley	Cottonwood Ranches	332E	3/14/1898	3.9	271	Cottonwood Ck
Valley	R. McNeel	548E	6/13/1900	1.03	72	Cottonwood Ck
Valley Valley	Rimfire Ranch Rimfire Ranch	1531 2272E	7/20/1897 7/5/1910	1.7 0.45	118 32	Cottonwood Ck Cottonwood Ck
Vermillion	Tom Thrash	15010	3/1/1918	0.43	59	North Piney Ck
Vermillion	Tom Thrash	2007	11/10/1898	3.93	275	North Piney Ck
Vickery	Tom Thiush	1186	4/3/1896	4.39	307	Dry Piney Ck
Victoria	Miller Land & Livestock	Terr.	9/00/1888	0.75	53	Cottonwood Ck
Vincent #2	Bill Busbice	22054	5/31/1960	0.11	8	La Barge Ck
W. L. Smith	Rimfire Ranch	9104	4/2/1909	3.64	255	Cottonwood Ck
W. Nichols	Alsade Ltd.	Terr.	5/25/1888	4.56	320	North Piney Ck
Walker #1	Budd Ranches	12936	12/21/1914	3.96	278	Middle Piney Ck
Walker #2	Budd Ranches	12937	12/21/1914	1.77	124	Middle Piney Ck
Wardell		3107E	1/13/1915	3.75	262.83	Green River
Wardell Wardell		1738 1014E	2/4/1898 4/3/1903	1.85 1.61	130	Green River Green River
Wardell		551E	6/20/1903	3.26	228	Green River
Wardell		4684E	7/31/1930	1.57	110	Green River
Warren	T. Davis	2580	4/28/1900	2.28	160	North Piney Ck
Warren	T. Davis	4080E	11/22/1919	1.91	134	North Piney Ck
Wassenberg No. 1		20683	1/30/1951	3.41	239	Meadow Canyon Ck
Whitman	B. Thoman, D. Grant	112E	4/12/1895	2	140	La Barge Ck
Whitman	B. Thoman, D. Grant	Terr.	5/10/1892	0.43	30	La Barge Ck
Whitman	B. Thoman, D. Grant	5189E	5/3/1939	0.99	69.68	La Barge Ck
Wilson	McII	17945	6/17/1929	S.S.	376	Meadow Canyon Ck
Windsor Windsor	Miller L & L	1960 6316E	9/26/1898 9/30/1969	1.36	90 21	Middle Piney Ck Middle Piney Ck
Windsor Wolton #1	Miller L & L	6316E 19787	6/29/1969	0.3 0.81	57	Middle Piney Ck Fontenelle Ck
Words #1		8162	1/6/1908	1.59	111	Green River
Woods #1		606E	12/20/1908	2.3	161	Green River
Woods #1		2968	12/22/1900	3.16	223	Green River
Woods #1		6307E	12/45/1968	0.19	13	Green River
Woods #1		1279E	5/12/1904	0.49	34	Green River
Woods #1		6232E	7/19/1968	0.28	20	Green River
Wookmansee	Ryegrass Ranches	7460	10/5/1906	2.98	209	Killpecker Ck
Yankee	Flying W L&L	6330E	11/24/1969	2.81	197	South Piney Ck
Yankee	Flying W L&L	6151E	11/8/1965	2.28	159.38	South Piney Ck
Yankee	Flying W L&L	5842E	12/27/1955	240	168	South Piney Ck
Yankee	Chrisman/McAdams	3212	5/27/1901	6.17	470	South Piney Ck
Yankee	Flying W L&L	2657E	8/7/1912	5.43	380	South Piney Ck

# Table 5.1.1 Irrigation/Surface Water Rights Tabulation(Continued)

**APPENDIX K** 

**NRCS CONSERVATION PRACTICES** 

### **Conservation Practices**

### Alphabetical Index

A-C, D-F, G-I, K-M, N-P, Q-R, S-T, U-Z

			Into. Sheet/		Job Sneet/		
Conservation Practice Name (Units) (Code) (Date Issued)	Sta	ndard	Practice	СРРЕ	Implement.	National Statement of Work Template	Network Effects Dia
	PDF	Word	Overview		Require.		
Access Control (Ac.) (472) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC	PDF <u>DOC</u>
Access Road (Ft.) (560) (7/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Agrichemical Handling Facility (No.) (309) (2/08)	<u>PDF</u>	DOC	PDF	DOC		DOC	PDF DOC
Air Filtration and Scrubbing (No.) (371) (4/10)	PDF	DOC				DOC	
Alley Cropping (Ac.) (311) (5/11)	<u>PDF</u>	DOC		DOC	DOC	DOC	PDF DOC
Amendments for Treatment of Agricultural Waste (AU) (591) (4/13)	<u>PDF</u>	DOC		DOC		DOC	PDF DOC
Anaerobic Digester (No.)(366) (9/09)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Animal Mortality Facility (No.)(316) (9/10)	<u>PDF</u>	DOC		DOC		DOC	<u>PDF</u> DOC
Animal Trails and Walkways(Ft.) (575) (4/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Anionic Polyacrylamide (PAM) Application (Ac.) (450) (5/11) Aquaculture Ponds (Ac.) (397) (1/10) Aquatic Organism Passage (Mi.) (396) (4/11)	<u>PDF</u> <u>PDF</u> <u>PDF</u>	DOC DOC DOC	PDF	DOC DOC		DOC DOC DOC	_PDF
Bedding (Ac.) (310) (7/10)	PDF	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u>
Bivalve Aquaculture Gear and Biofouling Control (Ac.) (400) (4/11) Building Envelope Improvement (672) (4/13)	<u>PDF</u> PDF	DOC DOC				DOC DOC	DOC
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Contour Orchard and Other Perennial Crops (Ac.) (331) (1/10)	<u>PDF</u>	DOC	PDF	DOC	PDF	DOC	PDF DOC
Cover Crop (Ac.) (340) (5/11)	<u>PDF</u>	DOC	PDF	DOC	PDF	DOC	PDF DOC
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Mole Drain (Ft.) (482) (3/03) Monitoring Well (No.) (353) (9/10)	<u>PDF</u> <u>PDF</u>	DOC DOC		DOC		DOC DOC	DOC
				DOC			PDF
Mulching (Ac.) (484) (5/11)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC
Multi-Story Cropping (Ac.) (379) (7/10)	<u>PDF</u>	DOC		DOC		DOC	PDF
							DOC PDF
Nutrient Management (Ac.)(590) (1/12)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC
Obstruction Removal (Ac.)(500) (1/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u>
Open Channel (Ft.) (582) (10/87)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
Pond (No.) (378) (5/11)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	PDF
							DOC PDF
Pond Sealing or Lining, Bentonite Treatment (No.)(521C) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
Pond Sealing or Lining, Compacted Clay Treatment (No.) (521D) (9/10)	PDF	DOC		DOC		DOC	PDF
				5.00			DOC PDF
Pond Sealing or Lining, Flexible Membrane (No.)(521A) (9/11)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
Pond Sealing or Lining, Soil Dispersant Treatment (No.)(521B) (9/10)	PDF	DOC	PDF	DOC		DOC	<u>PDF</u> DOC
Precision Land Forming (Ac.)(462) (7/02)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	
Prescribed Burning (Ac.) (338) (9/10)	<u>PDF</u>	DOC	PDF	DOC		DOC	PDF_
							DOC PDF
Prescribed Grazing (Ac.) (528) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u>
							DOC DOC
Range Planting (Ac.) (550) (4/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u>
Recreation Area Improvement( $\Delta c$ ) (562) (10/77)	DUE		DUE	DOC		DOC	PDF

Increasion and Shaper, (A) (SSR) (A)3)Mathematication of Mark (A)3 (A)3 (A)3 (A)3 (A)3 (A)3 (A)3 (A)3	$\mathbf{A} = \mathbf{A} = $	<u>וט ז</u>	DOC		<u>000</u>		
NetworkNoticeNoti	Recreation Land Grading and Shaping (Ac.) (566) (4/13)	<u>PDF</u>	DOC	PDF	DOC		DOC
Restoration and Management (Rate and Deckiner) (Mathian (Sch. (Sch.))EndEndEndEndEndReparts from Statuter (Ac.)(StA) (V/A)EndEndEndEndEndEndEndReaders from Statuter (Ac.)(StA) (V/A)EndEndEndEndEndEndEndReaders from Statuter (Ac.)(StA) (V/A)EndEndEndEndEndEndEndReaders from Statuter (Ac.)(StA) (V/A)EndEndEndEndEndEndEndRoot Answer (Ac.) (StA) (V/A)EndEndEndEndEndEndEndEndRoot Answer (Ac.) (StA) (V/A)EndEn	Residue and Tillage Management, Mulch Till (Ac.)(345) (12/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	PDF	DOC
NameNoNoNoNoNoNoRearan recert softer Lection (1) (2000)NONONONONORearan recert softer (1) (2000)NONONONONONORearan recert softer (1) (2000)NONONONONONONORearan recert softer (1) (2000)NO <td< td=""><td>Residue and Tillage Management, No-Till (Ac.)(329) (12/13)</td><td><u>PDF</u></td><td>DOC</td><td><u>PDF</u></td><td>DOC</td><td>PDF</td><td>DOC</td></td<>	Residue and Tillage Management, No-Till (Ac.)(329) (12/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	PDF	DOC
Partial Hebaseas Cover(Ac) (399) (9/10)PEPCPCPCPCRodo/Trai/Landing Course and Treatment (FL) (554) (11/18)PCPCPCPCPCPCPCRodo Trained (Tables) (569) (9/10)PCPCPCPCPCPCPCPCRodo and Covers (PA) (567) (9/10)PCP	Restoration and Management of Rare and Declining Habitats(Ac.) (643) (9/10)	<u>PDF</u>	DOC		DOC		DOC
AcadDefDefDefDefDefDefRed Arrier (R.) [SSS) (9/0)EE	Riparian Forest Buffer (Ac.)(391) (7/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC
Ack Rarier (R1) (555) (9/10)EndEndEndEndEndEndRod and Covers (No.) (557) (9/10)End <td< td=""><td>Riparian Herbaceous Cover(Ac.) (390) (9/10)</td><td><u>PDF</u></td><td>DOC</td><td></td><td>DOC</td><td></td><td>DOC</td></td<>	Riparian Herbaceous Cover(Ac.) (390) (9/10)	<u>PDF</u>	DOC		DOC		DOC
Action fish under (No.) (S38) (9/09)DEDEDEDEDEDEDERods and Covers (No.) (S70) (9/10)EEDCEEDCDCDCDCSalinity and Socie Sol Management (Ac.) (S40) (9/10)EEDCDCDCDCDCSalinity and Socie Sol Management (Ac.) (S40) (9/10)EEDCDCDCDCDCSalinity and Socie Sol Management (Ac.) (S46) (9/10)EEDCDCDCDCDCSalinity and Socie Sol Management (Ac.) (S46) (9/10)EEDCDCDCDCDCSalinity and Socie Sol Management (Ac.) (S46) (9/10)EEDCDCDCDCDCSpin Spreading (Ac.) (S72) (1/10)EEDCDCDCDCDCSpin Spreading (Ac.) (S70) (9/10)EEDCDCDCDCDCDCSpin Spreading (Ac.) (S70) (9/10)EEDCDCDCDCDCDCDCSpin Spreading (Ac.) (S70) (9/10)EEDC </td <td>Road/Trail/Landing Closure and Treatment (Ft.) (654) (11/08)</td> <td><u>PDF</u></td> <td>DOC</td> <td></td> <td>DOC</td> <td></td> <td>DOC</td>	Road/Trail/Landing Closure and Treatment (Ft.) (654) (11/08)	<u>PDF</u>	DOC		DOC		DOC
ioofs and Covers (No. (367) (9/10)IDEIDEIDEIDEIDEIDERow Arangement (Ac.) (S57) (4/13)IDEIDEIDEIDEIDEIDEIDESalinty and Sock (Sali Management (Ac.) (S60) (9/10)IDEIDEIDEIDEIDEIDESalinty and Sock (Sali Management (Ac.) (S60) (9/10)IDEIDEIDEIDEIDEIDESalinty Arabite Stabilishment (Ac.) (S60) (9/10)IDEIDEIDEIDEIDEIDESpring Development (No.) (S74) (12/13)IDEIDEIDEIDEIDEIDEIDESpring Development (No.) (S74) (12/13)IDEIDEIDEIDEIDEIDEIDESpring Development (No.) (S74) (12/13)IDEIDEIDEIDEIDEIDEIDESpring Development (No.) (S74) (12/13)IDE <td>Rock Barrier (Ft.) (555) (9/10)</td> <td><u>PDF</u></td> <td>DOC</td> <td>PDF</td> <td>DOC</td> <td></td> <td>DOC</td>	Rock Barrier (Ft.) (555) (9/10)	<u>PDF</u>	DOC	PDF	DOC		DOC
Now Arangement (Ac.) (SD7) (Al3)PEPCPCPCPCPCSalinity and Socie Sail Management (Ac.) (SD1) (SD1)PCPCPCPCPCPCPCSalinity and Socie Sail Management (Ac.) (SD4) (Al3)PCPCPCPCPCPCPCSalinity and Socie Sail Management (Ac.) (SD4) (SD1)PC<	Roof Runoff Structure (No.)(558) (9/09)	<u>PDF</u>	DOC	PDF	DOC		DOC
Sellinity and Socie Soft Management (Ac.) (540) (9/10)Ep2DCDCDCSediment Socie Soft Management (Ac.) (646) (9/10)Ep2CFP2DCDCShahow Water Bevelopment and Management (Ac.) (646) (9/10)Ep2CCDCDCShop sature Stabilishment(Ac.) (311) (S/11)Ep2DCDCDCDCSpring Development (No.) (S721) (S/21)Ep2DCDCDCDCSpring Development (No.) (S731) (S/21)Ep2DCDCDCDCSpring Development (No.) (S730) (S/10)Ep2DCEp2DCDCSpring Development (No.) (S731) (S/20)Ep2DCEp2DCDCSpring Development (No.) (S730) (S/10)Ep2DCEp2DCDCSpring Development (No.) (S731) (S/20) (S/20)Ep2DCDCDCSpring Development (No.) (S731) (S/20) (S/20)Ep2DCDCDCSpring Development (No.) (S731) (S/20) (S/20) (S/20)Ep2DCDCDCSpring Development (No.) (S731) (S/20) (	Roofs and Covers (No.) (367) (9/10)	<u>PDF</u>	DOC		DOC		DOC
Sediment Basin (No.) (350) (1/10)         PPA         PDC         PDE         PDC         PDC         PDC           Shallow Water Development and Management (Ac.) (646) (9/10)         PDC         PDC <td>Row Arrangement (Ac.) (557) (4/13)</td> <td><u>PDF</u></td> <td>DOC</td> <td>PDF</td> <td>DOC</td> <td></td> <td>DOC</td>	Row Arrangement (Ac.) (557) (4/13)	<u>PDF</u>	DOC	PDF	DOC		DOC
Shallow Water Development and Management (Ac.) (646) (910)PDFDCCDCCDCCSivopasture Exbabilisment(Ac.) (331) (511)DEDCDCDCDCSpring Development (Ac.) (572) (170)DEDCDCDCDCSpring Development (Ac.) (573) (970)DCDCDCDCDCSpring Development (Ac.) (570) (970)DCDCDCDCDCStramm (No.) (578) (9/10)DCDCDCDCDCStramm (No.) (578) (9/11)DCDCDCDCDCStramm (No.) (578) (9/11)DCDCDCDCDCStramm (No.) (583) (12/13)DCDCDCDCDCStramm (No.) (583) (12/13)DCDCDCDCDCStranter for Info (1606) (9/10)DCDCDCDCDCStranter for Info (1606) (9/10)DCDCDCDCDCStranter for Info (1606) (9/10)DCDCDCDCDCStranter For Info (1606) (9/10)DCDCDCDCDCStranter For Info (1606) (9/09)DCDCDCDCDCStranter For Info (1606) (9/09)	Salinity and Sodic Soil Management (Ac.) (610) (9/10)	<u>PDF</u>	DOC		DOC		DOC
Sikopasture Establishment(Ac.) (381) (5/11)       PP	Sediment Basin (No.) (350) (1/10)	<u>PDF</u>	DOC	PDF	DOC		DOC
Spoil Spreading (Ac.) (572) (1/10)PEOCPEOCPEOCPDCSpring Development (No.) (574) (1/13)PPPCPDC	Shallow Water Development and Management (Ac.) (646)(9/10)	<u>PDF</u>	DOC		DOC		DOC
Spring Development (No.)(574) (12/13)PDE POC PDE Stormwater Runoff Control (No. and Ac.) (570) (9/10)DDC DDC DDC DDC DDCDDC DDC DDC DDCDDC DDC DDCDDC DDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDCDDC DDC	Silvopasture Establishment(Ac.) (381) (5/11)	<u>PDF</u>	DOC		DOC		DOC
Sprinkler System (No.) (442) (4/13) Sprinkler System (No.) (A42) (570) (9/10)DDC PDEDDC PDEDDC PDEDDC PDEDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDC DDCDDCDDC DDCDDCDDC DDCDDCDDC DDC	Spoil Spreading (Ac.) (572) (1/10)	<u>PDF</u>	DOC	PDF	DOC		DOC
Stormwater Runoff Control (No. and Ac.) (S70) (9/10)PDEPDEPDCPDEPDCPDCPDCStream Lassing (No.) (S78) (9/11)PDEPDEPDCPDCPDCPDCPDCStream And Management (Ac.) (395) (9/10)PDEDCCPDEDCCPDEDCCStream Habitat Improvement and Management (Ac.) (395) (9/10)PDEDCCPDEDCCPDEDCCStripcropping (Ac.) (S85) (12/13)PDEDCCPDEDCCPDEDCCStructure for Water Control (No.) (S87) (4/10)PDEDCCPDEDCCPDEDCCSufface Drain, Field Ditch (Ft.) (606) (9/11)PDEDCCPDEDCCDCCDCCSufface Drain, Field Ditch (Ft.) (608) (9/09)PDEDCCPDEDCCDCCDCCSufface Drain, Main or Lateral (Ft.) (608) (9/09)PDEPDEDCCPDEDCCDCCSufface Roughening (Ac.) (609) (9/09)PDEPDEPDEPDEDCCPDCPDCSufface Roughening (Ac.) (609) (9/09)PDEPDEPDEPDEPDCPDCPDC	Spring Development (No.)(574) (12/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC
Stream Crossing (No.) (578) (9/1)       PIF       DC       DC       DC         Stream Abitat Improvement and Management (Ac.)(395) (9/20)       PIF       DC       DC         Stripcropping (Ac.) (585) (12/13)       PIF       DC       PIF       DC         Structure for Water Control(No.) (587) (4/10)       PIF       DC       PIF       DC         Subsurface Drain (FL.) (606) (9/11)       PIF       DC       PIF       DC       DC         Surface Drain, Field Ditch (FL) (608) (9/09)       PIF       DC       PIF       DC       DC         Surface Drain, GL, (608) (9/09)       PIF       DC       PIF       DC       DC       DC         Surface Drain, GL, (608) (9/09)       PIF       DC       PIF       DC       DC       DC         Surface Drain, GL, (609) (9/09)       PIF       DC       PIF       DC       DC       DC         Surface Drain, GL, (609) (9/09)       PIF       DC       PIF       DC       DC       DC         Surface Drain, GL, (609) (9/09)       PIF       DC       PIF       DC       DC       DC         Surface Drain, GL, (609) (9/09)       PIF       DC       DC       DC       DC         Surface Drain, GL, (609) (9/09)       PIF							
Stream Habitat Improvement and Management (Ac.)(395) (9/10)PDFDOCDOCDOCStripcropping (Ac.) (585) (12/13)PDFPDFPDFPDFPDFPDCStructure for Water Control (No.) (587) (4/10)PDFDOCPDFDOCDOCDOCSubsurface Drain (Ft.) (606) (9/11)PDFDOCPDFDOCDOCDOCSurface Drain, Field Ditch (Ft.) (607) (9/09)PDFDOCPDFDOCDOCDOCSurface Drain, Main or Lateral (Ft.) (608) (9/09)PDFDOCPDFDOCDOCDOCSurface Roughening (Ac.) (609) (9/09)PDFDOCPDFDOCDOCDOC	Streambank and Shoreline Protection (Ft.) (580) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC
Stripcropping (Ac.) (585) (12/13)       PDF       DOC       PDF       DOC       PDF       DOC         Structure for Water Control(No.) (587) (4/10)       PDF       DOC       DOC       DOC       DOC         Subsurface Drain (Ft.) (606) (9/11)       PDF       DOC       PDF       DOC       DOC       DOC         Surface Drain, Field Ditch (Ft.) (607) (9/09)       PDF       DOC       PDF       DOC       DOC       DOC         Surface Drain, Main or Lateral (Ft.) (608) (9/09)       PDF       DOC       PDF       DOC       DOC       DOC         Surface Roughening (Ac.) (609) (9/09)       PDF       DOC       PDF       DOC       DOC       DOC	Stream Crossing (No.) (578) (9/11)	<u>PDF</u>	DOC		DOC		DOC
Structure for Water Control(No.) (587) (4/10)PDFDOCPDFDOCDOCSubsurface Drain (Ft.) (606) (9/11)PDFDOCPDFDOCDOCSurface Drain, Field Ditch (Ft.) (607) (9/09)PDFDOCPDFDOCDOCSurface Drain, Main or Lateral(Ft.) (608) (9/09)PDFDOCPDFDOCDOCSurface Roughening (Ac.) (609) (9/09)PDFDOCPDFDOCDOC	Stream Habitat Improvement and Management (Ac.)(395) (9/10)	<u>PDF</u>	DOC		DOC		DOC
Subsurface Drain (Ft.) (606) (9/11)PDFDOCPDFDOCDOCSurface Drain, Field Ditch (Ft.) (607) (9/09)PDFDOCPDFDOCDOCDOCSurface Drain, Main or Lateral (Ft.) (608) (9/09)PDFDOCPDFDOCDOCDOCDOCSurface Roughening (Ac.) (609) (9/09)PDFDOCPDFDOCDOCDOCDOC	Stripcropping (Ac.) (585) (12/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	PDF	DOC
Surface Drain, Field Ditch (Ft.)(607) (9/09)PDFDOCDOCDOCSurface Drain, Main or Lateral(Ft.) (608) (9/09)PDFDOCDOCDOCSurface Roughening (Ac.)(609) (9/09)PDFDOCPDFDOCDOC	Structure for Water Control(No.) (587) (4/10)	<u>PDF</u>	DOC	PDF	DOC		DOC
Surface Drain, Main or Lateral(Ft.) (608) (9/09)       PDF       DOC       DOC       DOC         Surface Roughening (Ac.)(609) (9/09)       PDF       DOC       PDF       DOC       DOC       DOC	Subsurface Drain (Ft.) (606) (9/11)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC
Surface Roughening (Ac.)(609) (9/09)     PDF     DOC     PDF     DOC     DOC	Surface Drain, Field Ditch (Ft.)(607) (9/09)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC
	Surface Drain, Main or Lateral(Ft.) (608) (9/09)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC
Trails and Walkways (Ft.)(568) (1/10)PDFDOCPDFDOCDOC	Surface Roughening (Ac.)(609) (9/09)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC
	Trails and Walkways (Ft.)(568) (1/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC

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Terrace (Ft.) (600) (4/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Tree/Shrub Establishment(Ac.) (612) (5/11)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Tree/Shrub Pruning (Ac.)(660) (1/06)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	PDF DOC
Tree/Shrub Site Preparation(Ac.) (490) (1/06)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	PDF DOC
Underground Outlet (Ft.)(620) (12/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC	<u>PDF</u> DOC
Upland Wildlife Habitat Management (Ac.) (645) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Vegetated Treatment Area(Ac.) (635) (5/08)	<u>PDF</u>	DOC		DOC		DOC	PDF
Vegetative Barrier (Ft.) (601) (1/10)	<u>PDF</u>	DOC		DOC	DOC	DOC	DOC PDF
Vertical Drain (No.) (630) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC PDF
Waste Facility Closure (No.) (360) (4/11)	PDF	DOC		DOC		DOC	DOC
Waste Recycling (Ac.) (633) (5/11)	PDF	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u>
	<u>r DI</u>	<u>000</u>				<u>boc</u>	<u>DOC</u> <u>PDF</u>
Waste Separation Facility (No.) (632) (4/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	
	205	500	225	500		500	DOC PDF
Waste Storage Facility (No.)(313) (10/03)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
Waste Transfer (No.) (634) (11/08)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC	<u>PDF</u>
Waste Treatment (No.) (629) (4/13)	<u>PDF</u>	DOC		DOC		DOC	DOC
Waste Treatment Lagoon(No.) (359) (10/03)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Water and Sediment Control Basin (No.) (638) (9/08)	<u>PDF</u>	DOC	<u>PDF</u>	DOC	DOC	DOC	<u>PDF</u> DOC
Water Harvesting Catchment(No.) (636) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	PDF PDF
Waterspreading (Ac.) (640) (4/13)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u></u>
Water Wall (No. ) (642) (0/10)	DDE	DOC		DOC		DOC	DOC PDF
Water Well (No.) (642) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC PDF
Water Well Decommissioning(No.) (351) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	DOC
Watering Facility (No.) (614) (9/10)	<u>PDF</u>	DOC		DOC		DOC	<u>PDF</u> DOC
Well Water Testing (No.)(355) (9/10)	<u>PDF</u>	DOC		DOC		DOC	005
Wetland Creation (Ac.) (658) (9/10)	<u>PDF</u>	<u>DOC</u>		DOC		DOC	PDF DOC
Wetland Enhancement (Ac.)(659) (9/10)	<u>PDF</u>	DOC		DOC		DOC	<u>PDF</u> DOC
Wetland Restoration (Ac.)(657) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	PDF
Wetland Wildlife Habitat Management (Ac.) (644) (9/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>PDF</u> DOC
Windbreak/Shelterbelt Establishment (Ft.) (380) (5/11)	PDF	DOC	PDF	DOC	DOC	DOC	<u>380 and 650(PDF,</u>
Windbreak/Shelterbelt Renovation (Ft.) (650) (7/10)	<u>PDF</u>	DOC	<u>PDF</u>	DOC		DOC	<u>380 and 650(DOC</u> <u>PDF</u>
Woody Residue Treatment (Ac.) (384) (5/11)	<u>PDF</u>	DOC		DOC		DOC	DOC



## **APPENDIX L**

WATER RIGHTS – UPPER GREEN WATERSHED

#### District 5 Water Rights

District 5 Wat	er Rights																											
																				Diversion								
													Total Flow(CFS)/				Depth O	f	Total	Capacity at	Active	Inactive	Size of		Chemica	1		
			Summary WR										Appropriation(	Total	StaticWater	Well	Pump	1				Capacity( R		Facility SupplyT	Analysis	5		Created
WR Number	Priority Date	Priority text		Company	First Name	Last Name	Facility Name	Uses	Twn	Rng	Sec	Qtr-Qtr	GPM)	depth (Ft)		Log(Y/N)	(Ft)	Stream Source	(AF/Yr)	(CFS)	(AF)	AF)	(AF)	type ype	(Y/N)		Longitude	
P110453.0W	06/11/1998		Complete		GARY	LYELLS	LYELLS #1	DOM_GW	024N	116W	12	NE1/4NW1/4	25	132.00	8						0	0	0	Well	Ν	42.08026	-110.5323	5 External
P114726.0W	03/18/1999		Complete		LAMAR H AND JASON	N JONES	LAJA #51	DOM_GW	024N	116W	26	NW1/4SW1/4	8	140.00	21						0	0	0	Well	Ν		-110.5567	
P114730.0W	03/22/1999		Abandoned				MW-1	MON	023N	111W	16	SW1/4NE1/4	0	19.00	-7						0	0	0	Well	Ν		-110.0052	
P114731.0W	03/22/1999		Complete				MW-2	MON	023N	111W	16	SW1/4NE1/4	0	16.33	9.5						0	0	0	Well	N		-110.0052	
P114732.0W	03/22/1999		Complete				MW-3	MON	023N	111W	16	SW1/4NE1/4	0	19.00	13.75						0	0	0	Well	N		-110.0051	
P114733.0W P114734.0W	03/22/1999 03/22/1999		Complete Complete				MW-4 MW-5	MON MON	023N 023N	111W 111W	16 16	SW1/4NE1/4 SW1/4NE1/4	0	16.83 19.50	13.5 17.33						0	0	0	Well Well	IN N		-110.0051 -110.0052	
P114735.0W	03/22/1999		Complete				MW-5 MW-6	MON	023N	111W	16	SW1/4NE1/4	0	16.66	13.75						0	0	0	Well	N		-110.0052	
P116266.0W	06/04/1999		Complete	MCMURRY OIL	MICHAEL	FOSDICK	BIRD CANYON COMPRESSOR WAT		027N	111W	34	NE1/4NW1/4	115	873.00	475						0	0	0	Well	N		-110.0267	
P116343.0W	06/03/1999		Cancelled	McMURRY OIL	(		PLAINS WSW #2	MIS	028N	109W	27	SE1/4SW1/4	115	510.00	150						0	0	0	Well	Ν	42.36977		
P128557.0W	09/05/2000		Complete		MICHAEL AND JUDY	DENISON	DENISON #1	DOM_GW	026N	112W	30	NE1/4NE1/4	18	170.00	40	Ν	43				0	0	0	Well	Ν	42.21237	-110.1902	External
P160754.0W	07/12/2004		Complete				JEDLINSKY #1	DOM_GW	024N	116W	26	NW1/4SE1/4	5	160.00	96	N	150				0	0	0	Well	Ν	42.02933		
P160773.0W	07/21/2004		Complete		MICHAEL H.	DENISON	DENISON WELL #2	DOM_GW	026N	112W	30	NE1/4NE1/4	4	65.00	27	N	53				0	0	0	Well	N	42.2116	-110.19	
P168118.0W	06/02/2005		Complete		RODNEY	WEATHERMON	WEATHERMON'S C2-94	DOM_GW	024N	116W	26	SW1/4NW1/4	5	125.00	20	N	103				0	0	0	Well	Y			External
P168887.0W P169416.0W	07/07/2005 08/08/2005		Complete Complete		ROBERT	RAWLINGS	THOMAN #1 RAWLINGS NO 1 WELL	DOM_GW DOM GW	026N 024N	112W 116W	19 35	SE1/4SE1/4 SE1/4NE1/4	10 3	100.00 140.00	40 24	N	70 135				0	0	0	Well Well	N	42.21407 42.02033	-110.194 -110.5417	
P169416.0W P171643.0W	10/20/2005		Complete	JONAH ENERGY		RAWLINGS	STUD HORSE BUTTE #10-28W	MIS	024N 029N	108W	28	NW1/4SE1/4	200	900.00	135	N	135				0	0	0	Well	N		-110.5417	
P175255.0W	06/08/2006		Complete	JONAN ENERGI	DARREN	MEHLER	MEHLER #1	DOM GW	026N	112W	30	SE1/4NE1/4	200	220.00	70	N	200				0	0	0	Well	N	42.20803		External
P176105.0W	06/19/2006		Incomplete		ROGER AND DIANE	GOODMAN	GOODMAN #2	IRR GW	025N	112W	07	SE1/4SE1/4	50	78.00	45	N	68				0	0	0	Well	N	42.15772		
P176557.0W	08/14/2006		Complete		GORDON C AND JOA	N MITCHELL	MITCHELL #1	DOM_GW	028N	111W	07	NE1/4NE1/4	10	180.00	50	Ν	140				0	0	0	Well	Ν	42.42595	-110.0739	9 External
P176877.0W	07/24/2006		Complete		EDDIE	WARDELL	ALKALI SUN WELL #1	STK	029N	110W	10	NE1/4NW1/4	4	23.00	16	N	19				0	0	0	Well	Ν	42.5101	-109.9411	External
P179576.0W	02/12/2007		Complete	SWEPI LP			RAINBOW 8-31	MIS	030N	107W	31	SW1/4NE1/4	150	990.00	145	Ν	704				0	0	0	Well	Ν	42.52717		1 External
P180546.0W	03/19/2007		Complete		CODY	SELLERS	C SELLERS 31	DOM_GW	026N	114W	11	NW1/4NW1/4	15	12.00	3	N	12				0	0	0	Well	N		-110.3622	
P182094.0W	07/12/2007		Incomplete		DANIEL J AND HOPE		DH #1	DOM_GW	026N	112W	30	NE1/4NE1/4	25	140.00	101	N	130				0	0	0	Well	N		-110.1903	
P183344.0W P183409.0W	08/17/2007 05/09/2007		Complete Cancelled	BP AMERICA PF	THOMAS AND JANIC	EBUCK	BUCK #1 CORONA 2-14 WSW	DOM_GW MIS; STK	026N 028N	112W 109W	19 14	SW1/4SE1/4 NE1/4NE1/4	22 80	275.00 973.00	13 250	IN N	253 900				0	0	0	Well Well	IN N		-110.1973 -109.7656	
P183409.0W	12/03/2007		Cancelled	BF AWERICA FI		LAMAR	BONNIE #1	DOM GW	028N	116W	26	NE1/4NU1/4	25	973.00	230	IN	900				0	0	0	Well	IN		-1105.7050	
P183858.0W	12/03/2007		Cancelled		LARRY AND BONNIE		BONNIE #2	DOM GW	024N	116W	26	NE1/4NW1/4	3								0	0	0	Well		42.03677		7 External
P48594.0W	06/12/1979		Complete		DEWAYNE AND ELEN	CJOHNSTON	DEWAYNE JOHNSTON WELL #1	DOM_GW	026N	113W	18	NW1/4NW1/4	25	180.00	5						0	0	0	Well	Ν	42.2418		2 External
P78132.0W	08/29/1988		Fully Adjudicated	ł			EIGHTEEN MILE FLOWING WELL P	I DOM_GW; STK	024N	109W	20	NW1/4SW1/4	10	8800.00	0	Ν	0				0	0	0	Well	Ν	42.04251	-109.8049	9 External
P92361.0W	07/19/1993		Incomplete		TED AND LINDA ANN	WALKER	R #1	DOM_GW; STK	024N	115W	31	SW1/4NW1/4	6	100.00	28						0	0	0	Well	Ν	42.0196	-110.5137	7 External
P10469.0S	09/12/1988	09/12/1988	Complete				LEBAR STOCK RESERVOIR	STO	030N	109W	27	NE1/4SE1/4						Lebar Draw	1.08		0	1.08		Reservoir		42.54074		5 External
P10470.0S	09/12/1988	09/12/1988	Complete				SAGE STOCK RESERVOIR	STO	030N	109W	28	SW1/4SE1/4						Sage Draw	7.7		7.7	0		Reservoir		42.53855		External
P10724.0S	07/12/1989	07/12/1989	Complete				A. E. SCHWABACHER PIT STOCK R		029N	109W	03	NW1/4SE1/4						Granite Wash	3.27		0	3.27		Reservoir			-109.8188	
P10725.0S P10727.0S	07/12/1989 07/12/1989	07/12/1989 07/12/1989	Complete Complete				WARDELL STOCK RESERVOIR ALKALAI DRAW PIT #4 STOCK RESI	STO F STO	029N 029N	109W 110W	17 24	NW1/4NE1/4 SE1/4NW1/4						Burma Creek Donkey Draw	9.06 3.27		0	9.06 3.27		Reservoir Reservoir			-109.8566 -109.9024	
P11006.0S	06/04/1990	06/04/1990	Complete		R. EDWARD	WARDELL		STO	029N	109W	31	NW1/4NE1/4						Dirt Bike Draw	0.67		0	0.67		Reservoir			-109.8776	
P11121.0S	02/27/1991	02/27/1991	Complete		EDDIE	WARDELL	ALKALI BEND PIT STOCK RESERVO		028N	110W	02	SW1/4NE1/4						Alkali Creek (31-30-1			0	0.66		Reservoir		42.4365		2 External
P11382.0S	05/30/1991	05/30/1991	Cancelled	USDI - BUREAU			SCS PIT STOCK RESERVOIR	STO	029N	110W	09	SE1/4SW1/4						Adi Draw	0.7		0	0		Reservoir		42.5002	-109.961	
P114.0E	04/30/1895	04/30/1895	Fully Adjudicated	ł	Jacob	Herschler	Herschler's Ditch No. 2 {Enl. of}	IRR_SW	024N	115W	01	SE1/4NW1/4						Fontenelle Creek		-1	0	0	0 0	ot Applicab		42.09099	-110.4011	1 External
P11561.0S	04/06/1992	04/06/1992	Complete				SOUTH HOGSBACK STOCK RESERV	STO	026N	113W	19	SE1/4NE1/4						Hogsback Draw	1.46		0	1.46	1.46	Reservoir		42.22372	-110.3058	External
P12523.0R	01/06/2006	01/06/2006	Cancelled		GERALD	VOORHEES	LABARGE RESERVOIR	WL	027N	112W	32	NW1/4SW1/4						Green River			0	0	0	Reservoir			-110.1868	
P1266.0D	06/23/1896	06/23/1896	Cancelled		JOHN	GOLDING	GOLDING TWO DITCH	IRR_SW	026N	113W	27	SE1/4NW1/4	2.28					LaBarge Creek			0	0	0	Stream			-110.2563	
P12679.0S P12680.0S	02/08/1996 02/08/1996	02/08/1996 02/08/1996	Complete Complete		LARRY LAWRENCE	COOK COOK	COOK NUMBER 1 (ONE) STOCK RE COOK NO. 2 (TWO)STOCK RESERV		025N 025N	115W 115W	30 29	NE1/4SE1/4 NW1/4SW1/4						Bartlett Creek Bartlett Creek	5.7 3.25		5.7	0 3.25		Reservoir Reservoir		42.12143	-110.5445	5 External 6 External
P12843.05	01/28/1997	02/08/1990 01/28/1997	Complete	BUREAU OF LA		COOK	SCS PIT	STO	023N	113W	09	SE1/4SW1/4						Adi Draw	0.85		0	0.85		Reservoir		42.5002	-109.961	
P13004.0S	12/11/1997	12/11/1997	Complete	DOREAG OF EA	PATRICIA	LOONEY	VIOLA STOCK RESERVOIR	STO	026N	114W	02	SW1/4NW1/4						County Line Creek	0.05		0	0.11		Reservoir		42.27128		2 External
P13008.0D	11/12/1914	11/12/1914	Complete	PITTSBURG AN			BRYSON NO. 1 DITCH	IRR_SW	025N	116W	01	SW1/4SE1/4	2.58					Clear Creek			0	0	0	Stream				
P13009.0D	11/12/1914	11/12/1914	Complete	PITTSBURG AN	C		BRYSON NO. 2 DITCH	IRR_SW	025N	116W	01	SW1/4SE1/4	0.7					Clear Creek			0	0	0	Stream		42.17684	-110.5709	J External
P13461.0D	10/30/1911	10/30/1911	Cancelled	FRANK FEAR CA	A		LINCOLN CANAL	DOM_SW; IRR_SW	028N	111W	11	SE1/4SW1/4	0					Dry Piney Creek			0	0	0	Stream		42.4164	-110.0079	9 External
P14219.0D	07/11/1916	07/11/1916			STEVE	LASICH	LASICH NO. 1 DITCH	IRR_SW	025N	116W	01	NE1/4SE1/4	0.47					Clear Creek		5.2	0	0	0	Stream			-110.5639	
P14220.0D	07/11/1916	07/11/1916			STEVE	LASICH	LASICH NO. 2 DITCH	IRR_SW	025N	116W	01	NE1/4SE1/4	2.91					Clear Creek		5.2	0	0	0	Stream			-110.5623	
P17312.0S	09/14/2005	09/14/2005			DINO	FANELLI	SPRING CREEK RANCH # 1 STOCK		024N	116W	11	NE1/4NE1/4						Bernie's Branch	0.18		0	0.18		Reservoir			-110.542	
P17313.0S P17314.0S	09/14/2005 09/14/2005	09/14/2005 09/14/2005	Complete Complete		DINO DINO	FANELLI FANELLI	SPRING CREEK RANCH # 2 STOCK SPRING CREEK RANCH # 3 STOCK		024N 024N	116W 116W	11 11	NW1/4NE1/4 NW1/4NE1/4						Bernie's Branch Bernie's Branch	0.03 0.01		0	0.03 0		Reservoir Reservoir			-110.5469 -110.5469	
P17315.0S	09/14/2005	09/14/2005			DINO	FANELLI	SPRING CREEK RANCH # 3 STOCK		024N 024N	116W	11	NW1/4NE1/4						Bernie's Branch	0.01		0	0.02	-	Reservoir			-110.5469	
P17316.0S	09/14/2005	09/14/2005			DINO	FANELLI	SPRING CREEK RANCH # 5 STOCK		024N	116W	11	NW1/4NE1/4						Bernie's Branch	0.02		0	0.02		Reservoir			-110.5476	
P1815.0D	05/02/1898	05/02/1898			R.M.	FORNCROOK	FORNCROOK DITCH	IRR_SW	024N	114W	06	NE1/4NE1/4	0.99					Fontenelle Creek			0	0	0	Stream			-110.3713	
P1816.0D	05/02/1898	05/02/1898	Cancelled		R.M.	FORNCROOK	FORNCROOK DESERT DITCH NO. 2	-	024N	114W	04	NE1/4NW1/4	0.31					Fontenelle Creek			0	0	0	Stream			-110.3452	
P18732.0D	03/25/1935	03/25/1935			STEVE	LASICH	LASICH DITCH	IRR_SW	026N	116W	25	SW1/4SE1/4	0					Fontenelle Creek		5	0	0	0	Stream			-110.551	
P22365.0D	07/09/1972	07/09/1972	Cancelled	USDI - BLM			SEEDSKADEE PROJECT CANAL SYS	TFIS; IRR_SW; MUN	024N	112W	25	SE1/4SE1/4	0					Green River			0	0	0	Stream		42.02718	-110.0637	External
P2246.0R	10/30/1911	10/30/1911	Cancelled	LABARGE CANA		TAYLOR	LA BARGE RESERVOIR	IRR_SW	029N	116W	17	NE1/4NE1/4						LaBarge Creek	4029.44	0	0	0		Reservoir			-110.6725	
P29509.0D	10/23/1986	10/23/1986	Unadjudicated	EXXON CO., U.S	S R	GODDARD	EXXON'S SHUTE CREEK PIPELINE	CMU	023N	111W	18	NE1/4NW1/4	0.134					Green River		0.134	0	0	0	Stream			-110.0475	
P32570.0D	11/29/2001	11/29/2001 2/13/2001	Complete				THOMAN PIPELINE #1 LASICH DITCH-BLUEJAY CREEK DIV		023N	111W	17 36	NW1/4NW1/4	0.056					Green River		0.056	0	0	0	Stream			-110.0361	
P32694.0D P32695.0D	02/13/2001 02/13/2001	2/13/2001 2/13/2001	Complete Complete				LASICH DITCH-BLUEJAY CREEK DIV	-	026N 025N	116W 116W	36 01	NE1/4SW1/4 SE1/4NE1/4						Bluejay Creek Minnehaha Creek		6.53 6.53	0	0	0	Stream Stream			-110.5612 -110.5621	
P32053.0D	07/23/2001	07/23/2001			JACK	ROSE	ROSE DOMESTIC PUMP		023N	110W	28	SW1/4SE1/4	0.056					Green River		0.056	0	0	0	Stream			-110.3021	
P33276.0D	07/01/2005	07/01/2005		EOG RESOURCE				TEM	026N	112W	05	NE1/4SW1/4						Green River		0.5	0	0	0	Stream			-110.1803	
P33318.0D	08/12/2005	08/12/2005	Complete		GARY	LYELLS	TRIPLE L RANCH PIPELINE	DOM_SW	024N	116W	12	NE1/4NW1/4	0.056					Spring Branch Of Ro	n	0.056	0	0	0	Spring			-110.5323	
P33349.0D	09/14/2005	09/14/2005	Complete		DINO	FANELLI	SPRING CREEK RANCH PUMP	DOM_SW	024N	116W	11	NW1/4NE1/4	0.056					Bernie's Branch		0.056	0	0	0	Spring		42.08024	-110.5469	/ External
P33654.0D	01/29/2007	01/29/2007	Cancelled	ENTERPRISE PR			EPO GREEN RIVER WATER HAUL		023N	111W	16	NW1/4NW1/4						Green River		5.6	0	0	0	Stream			-110.0131	
P3989.0R	04/28/1925	04/28/1925			DAVID	JOHNSON	JOHNSON RESERVOIR (LONG DRA	_ ·	029N	108W	32	SW1/4NW1/4	0.01					Long Draw	184.36		0	184.36		Reservoir			-109.751	
P4437.0E	01/20/1925	01/20/1925			HELEN F.	RATHBUN	FIRST ENLARGEMENT OF HOMEST		024N	114W	02		0.31					Fontenelle Creek		1.2	0	0	0	Stream			-110.3114	
P4438.0E	01/20/1925	01/20/1925	complete		HELEN F.	RATHBUN	ANIEL B. RATHBURN UPPER DITCH	1	024N	114W	02		0.08					Fontenelle Creek		2.5	0	0	0	Stream		42.09401	-110.3114	External

P5086.0E	08/10/1937	08/10/1937	Complete	M.E.	RATHBUN	FIRST ENLARGEMENT OF DANIEL BIRR SW	024N	114W	02			Fontenelle Creek		1.75	0	0	0	Stream
P5189.0R	09/28/1939	09/28/1939	Expired	USDI GRAZING S	101110011	COVE DRAW RESERVOIR STO	030N	109W	31	SW1/4SE1/4		Cove Draw	12.1	1.75	0	12.1	12.1	Reserv
P5192.0R	09/28/1939	09/28/1939	Expired	USDI DIVISION (		SIMPSON DRAW NO. 2 RESERVOIR STO	025N	108W	30	NE1/4NE1/4		Simpson Draw	35.03		0	35.03	35.03	Reserv
P608.0E	07/02/1900	07/02/1900	Complete	D.B.	RATHBUN	FONTENELLE IRRIGATION DITCH ETIRR SW	024N	114W	06	, ,	3.17	Fontenelle Creek			0	0	0	Stream
P6313.0E	11/12/1968	11/12/1968	Complete	L M	MCGINNIS	SECOND ENLARGEMENT OF Smith	026N	113W	27	NE1/4NE1/4	0.24	LaBarge Creek		26.01	0	0	0	Stream
P6354.0R	09/19/1956	09/19/1956	Expired	TED	MILLER	PINE HOLLOW RESERVOIR IRR SW; STO	027N	114W	27	NE1/4SW1/4		Conway Creek	164.83		0	0	164.83	Reserv
P6629.0R	01/22/1962	01/22/1962	Complete	USDI - BUREAU		FONTENELLE RESERVOIR FIS; HYD; IND SW;	024N	112W	25	SE1/4SE1/4		Green River	345397		190250	154584	345397	Reserv
P6992.0D	11/23/1905	11/23/1905	Cancelled	ELMER L. AND ELLA	NELSON	NELSON NELSON DITCH	026N	112W	33	NW1/4SW1/4	0	Green River			0	0	0	Stream
P7326.0E	04/29/2002	04/29/2002	Complete			DIAMOND H TWO ENLARGEMENT IRR SW	025N	116W	01	NE1/4SE1/4	0.19	Clear Creek		6.53	0	0	0	Stream
P7327.0E	04/29/2002	04/29/2002	Complete			DIAMOND H TWO ENLARGEMENT IRR SW	026N	116W	25	SW1/4SE1/4		Fontenelle Creek		6.53	0	0	0	Strea
P7328.0E	04/29/2002	04/29/2002	Complete			AN ENLARGEMENT OF LASICH DIT(IRR SW	026N	116W	36	NE1/4SW1/4		Bluejay Creek		6.53	0	0	0	Stream
P7329.0E	04/29/2002	04/29/2002	Complete			AN ENLARGEMENT OF LASICH DIT(IRR SW	025N	116W	01	SE1/4NE1/4		Minnehaha Creek		6.53	0	0	0	Stream
P7331.0E	02/13/2001	2/13/2001	Complete			DIAMOND H ENLARGEMENT OF BEIRR SW	025N	116W	01	SW1/4SE1/4	0.39	Clear Creek		6.53	0	0	0	Stream
P7332.0E	02/13/2001	2/13/2001	Complete			DIAMOND H ENLARGEMENT OF LAIRR SW	026N	116W	25	SW1/4SE1/4	0.3	Fontenelle Creek		6.53	0	0	0	Stream
P7333.0E	02/13/2001	2/13/2001	Complete			DIAMOND H ENLARGEMENT OF BI IRR SW	025N	116W	01	SW1/4SE1/4	0.21	Clear Creek		6.53	0	0	0	Stream
P7334.0E	02/13/2001	2/13/2001	Complete			DIAMOND H ENLARGEMENT OF LAIRR SW	025N	116W	01	NE1/4SE1/4	0.34	Clear Creek		6.53	0	0	0	Stream
P7335.0E	02/13/2001	2/13/2001	Complete			DIAMOND H ENLARGEMENT OF LAIRR SW	025N	116W	01	NE1/4SE1/4	1.43	Clear Creek		6.53	0	0	0	Stream
P7345.0E	06/13/2002	06/13/2002	Complete	EXXON MOBIL CMARK	DEL PICO	THE ENLARGEMENT OF EXXON'S S	023N	111W	18	NE1/4NW1/4	0.581	Green River		0.134	0	0	0	Stream
P7347.0E	03/23/2000	3/23/2000	Unadjudicated			DIAMOND H ENLARGEMENT OF G(IRR SW	026N	113W	27	SE1/4NW1/4	1.7	LaBarge Creek		11.36	0	0	0	Stream
P7486.0E	09/24/2002	09/24/2002	Complete			4TH ENLARGEMENT OF Adams Dit STO	017N	114W	28	NE1/4NW1/4		Black's Fork River		72.14	0	0	0	Stream
P7895.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAN		WARDELL WOOD #73 STOCK RESEI	028N	110W	03	NE1/4SW1/4		Wardell Draw	2		0	2	2	Reserv
P7973.0S	02/18/1975	02/18/1975	Complete	USDI - BLM		SAGE STOCK RESERVOIR	030N	109W	28	SW1/4SE1/4		Sage Draw	1.81		0	1.81	1.81	Reserv
P7975.0S	02/18/1975	02/18/1975	Complete	USDI - BLM		REARDON BREAKS STOCK RESERVC	029N	110W	33	NW1/4SW1/4		Vital Draw	2.03		0	2.03	2.03	Reserv
P7976.0S	02/18/1975	02/18/1975	Complete	USDI - BLM		ALKALI RIDGE #3 STOCK RESERVOI	029N	110W	27	NE1/4NW1/4		Three Draw	1.93		0	1.93	1.93	Reserv
P918.0E	09/18/1902	09/18/1902	Cancelled	DANIEL	RATHBUN	FONTENELLE IRRIGATING DITCH ENRR SW	024N	114W	05	SE1/4NE1/4		Fontenelle Creek			0	0	0	Stream
P9227.0S	04/27/1983	04/27/1983	Complete			WARDELL #4 STOCK RESERVOIR STO	029N	110W	17	SE1/4SW1/4		Adi Draw	8.67		0	8.67	8.67	Reserv
P9228.0S	04/27/1983	04/27/1983	Complete			ALKALI DRAW PIT #1 STOCK RESER	029N	110W	26	SW1/4SW1/4		Shaw Draw	2.66		0	2.66	2.66	Reserv
P9229.0S	04/27/1983	04/27/1983	Complete			ALKALI DRAW PIT #2 STOCK RESER	029N	110W	35	NE1/4SW1/4		Mar Draw	2.66		0	2.66	2.66	Reserv
P9323.0S	11/29/1983	11/29/1983	Complete			SILT CATCH STOCK RESERVOIR	029N	110W	18	NE1/4SW1/4		Ferry Island Draw	6.1		0	6.1	6.1	Reserv
P9371.0S	04/12/1984	04/12/1984	Complete			VITAL STOCK RESERVOIR	028N	110W	06	SE1/4NW1/4		Vital Draw	2.91		0	2.91	2.91	Reserv
P9372.0S	04/12/1984	04/12/1984	Complete			WASHOUT STOCK RESERVOIR STO	029N	110W	18	SW1/4NE1/4		Jo Draw	17.67		0	17.67	17.67	Reserv
CR CC19/059	04/01/1901	04/01/1901	Fully Adjudicated	RASMUS	MICKELSON	ENL. MILLER. BAKER AND BURDICKIRR SW	026N	114W	04	SW1/4SE1/4	0.57	LaBarge Creek			0	0	0	Stream
CR CC25/114	07/08/1901	07/08/1901	Fully Adjudicated	CHARLES	BIRD	ENL. OF COWDELL DITCH IRR SW	028N	112W	26	NE1/4SW1/4	0.2	Green River			0	0	0	Stream
CR CC38/213	10/20/1905	10/20/1905	Fully Adjudicated	FRED	REARDON	ENL. OF LINCECUM DITCH ACT THEIRR SW	029N	111W	02	SW1/4NW1/4	0.29	Green River			0	0	0	Stream
CR CC38/282	11/12/1906	11/12/1906	Fully Adjudicated	FRED	REARDON	ENL. OF LANDERS DITCH ACT HIGH IRR SW	029N	111W	02	SW1/4NW1/4	8.86	Green River			0	0	0	Stream
CR CC40/656	04/09/1915	04/09/1915	Fully Adjudicated	MAYME	JONES	ENL. JONES BAILEY DITCH IRR SW	026N	114W	01	NW1/4NW1/4	0.49	Spring Creek (14-26-	1		0	0	0	Sprin
CR CC41/070	03/24/1915	03/24/1915	Fully Adjudicated	FRED	LERCH	ENL. CONWAY DITCH NO. 1 IRR SW	027N	114W	34	SE1/4SE1/4	0.76	Conway Creek			0	0	0	Stream
CR CC43/667	07/08/1901	07/08/1901	Fully Adjudicated	CHARLES	BIRD	ENL. OF COWDELL DITCH IRR SW	028N	112W	26	NE1/4SW1/4	0.56	Green River			0	0	0	Stream
CR CC59/287	05/03/1939	05/03/1939	Fully Adjudicated	DOLA	GENETTI	ENL. WHITMAN DITCH IRR SW; S&D	026N	114W	04	SE1/4NW1/4	0.99	LaBarge Creek			0	0	0	Stream
CR CC63/063	09/04/1900	09/04/1900	Fully Adjudicated	REUBEN M AND CAP		ENL. ANDERSON & HOWARD CAN/IRR SW	026N	114W	04	SW1/4SE1/4	0.57	LaBarge Creek			0	0	0	Stream
CR CC64/049	10/06/1952	10/06/1952	Fully Adjudicated	ROBERT		A ENL. ANDERSON & HOWARD CAN/IRR SW	026N	114W	04	SW1/4SE1/4	0.57	LaBarge Creek			0	0	0	Stream
CR CC67/214	10/06/1952	10/06/1952	Fully Adjudicated	JOSEPH	KRALL	ENL. ANDERSON & HOWARD CAN/IRR_SW	026N	114W	04	SW1/4SE1/4	1.17	LaBarge Creek			0	0	0	Stream
CR CC71/329	04/22/1970	04/22/1970	Fully Adjudicated	CAPITOLA PINGREE		ENL. ANDERSON & HOWARD CAN/IRR SW	026N	114W	04	SW1/4SE1/4	0.23	LaBarge Creek			0	0	0	Stream
CR CC71/330	04/22/1970	04/22/1970	Fully Adjudicated	RICHARD N AND BO		ENL. ANDERSON & HOWARD CAN/IRR SW	026N	114W	04	SW1/4SE1/4	0.11	LaBarge Creek			0	0	0	Stream
CR CC71/331	04/22/1970	04/22/1970	Fully Adjudicated			ENL. MILLER NO. 2 DITCH IRR SW	026N	114W	14	NE1/4NW1/4	0.11	LaBarge Creek			0	0	0	Stream
CR CC72/059	04/22/1970	04/22/1970	Fully Adjudicated			ENL. ANDERSON & HOWARD CAN/IRR_SW	026N	114W	04	SW1/4SE1/4	2.26	LaBarge Creek			0	0	0	Stream
CR CC79/047	06/16/1983	06/16/1983	Fully Adjudicated	DAN L AND CELIA A	BOMEKE	ENL. JONES BAILEY DITCH IRR SW; STO	026N	114W	01	NW1/4NW1/4	0.79	Spring Creek (14-26-	1		0	0	0	Stream
CR CC82/162	11/07/1997	11/07/1997	Fully Adjudicated	NELS	GARDNER	ENL. JONES-BAILEY DITCH IRR SW	026N	114W	01	NW1/4NW1/4		Spring Creek (14-26-			0	0	0	Stream
CR CC82/373	04/06/1916	4/6/1916			G, MD MEN	ENL. OF SUPERIOR DITCH ACIPT THIRR SW	022N	109W	07	NW1/4NW1/4	1.04	Green River			0	0	0	Stream
OR 01/166	06/20/1878	Spring1878	Fully Adjudicated	ALFRED	POMEROY	FONTENELLE DITCH NO. 1 IRR SW	024N	114W	12	,, .	4	Fontenelle Creek			0	0	0	Stream
OR 01/166	06/01/1878	06/01/1878	Fully Adjudicated	C	HOLDEN	HOLDEN IRRIGATING DITCHES NO. IRR SW; S&D	024N	113W	04	NW1/4NE1/4	2	Fontenelle Creek			0	0	0	Stream
OR 01/166	12/20/1878	Fall 1878	Fully Adjudicated	ALFRED	POMEROY	POMEROY DITCH NO. 2 IRR SW	024N	114W	12		0.18	Fontenelle Creek			0	0	0	Stream
OR 02/140	05/01/1891	05/01/1891	Fully Adjudicated	ALFRED	POMEROY	A POMEROY DITCH IRR SW	024N	114W	12		0.9	Fontenelle Creek			0	0	0	Stream
OR 02/146	05/15/1878	05/15/1878	Fully Adjudicated	ROBERT	MCILVANE	SPRING CREEK DITCH IRR SW	026N	114W	11	SE1/4NE1/4	0.57	Spring Creek (14-26-	1		0	0	0	Sprin
OR 15/317	05/15/1878	05/15/1878	Fully Adjudicated	WM	MCGINNIS	SPRING CREEK DITCH ACIP TO THE IRR SW	026N	114W	11	SE1/4NE1/4	1.59	Spring Creek (14-26-			0	0	0	Sprin
OR 02/146	03/25/1879	03/25/1879	,,	TILFORD	KUTCH	KUTCH DITCH IRR SW	026N	114W	04	SE1/4NW1/4	1.43	LaBarge Creek			0	0	0	Stream
OR 02/146	05/01/1879	05/01/1879		HENRY	BURDICK	MILLER. BAKER AND BURDICK DITCIRR SW	026N	114W	04	SE1/4NW1/4	0.57	LaBarge Creek			0	0	0	Stream
OR 02/146	05/01/1879	05/01/1879		Ν	MILLER	MILLER, BAKER AND BURDICK DIT(IRR SW	026N	114W	04	SW1/4SE1/4	0.85	LaBarge Creek			0	0	0	Stream
OR 02/146	06/01/1880	06/01/1880	Fully Adjudicated	Ν	MILLER	MILLER NO. 1 DITCH IRR SW	026N	114W	14	NE1/4NE1/4	2.85	LaBarge Creek			0	0	0	Stream
OR 02/146	06/01/1880	06/01/1880	Fully Adjudicated	JENS	CONNELL	MILLER NO. 1 DITCH ACIP TO THE LIRR SW	026N	114W	04	SW1/4SE1/4	2.07	LaBarge Creek			0	0	0	Stream
OR 11/583	06/01/1880	06/01/1880	. , .,	JAMES	MICHAEL	MILLER NO. 1 DITCH ACIP TO THE LIRR SW	026N	114W	04	SW1/4SE1/4	1.71	LaBarge Creek			0	0	0	Stream
OR 02/146	05/13/1886	05/13/1886		ROBERT	ANDERSON	ALFORD DITCH IRR SW	026N	113W	19	NE1/4SW1/4	2.85	LaBarge Creek			0	0	0	Stream
OR 02/146	05/13/1886	05/13/1886	Fully Adjudicated	HENRY	HILL	ALFORD DITCH IRR SW	026N	113W	19	NE1/4SW1/4	1	LaBarge Creek			0	0	0	Stream
OR 02/146	05/13/1886	05/13/1886	. , .,	JAMES	BESS	ALFORD DITCH IRR_SW	026N	113W	19	NE1/4SW1/4	0.57	LaBarge Creek			0	0	0	Stream
OR 02/146	04/15/1887	04/15/1887		ROBERT	MCILVANE	MCILVANE DITCH IRR_SW	026N	114W	11	SE1/4NE1/4	0.36	Spring Creek (14-26-	1		0	0	0	Stream
OR 02/146	03/17/1889	03/17/1889	Fully Adjudicated	HENRY	HILL	BESS DITCH IRR SW	026N	113W	28	SW1/4NE1/4	0.85	LaBarge Creek			0	0	0	Stream
OR 02/146	03/17/1889	03/17/1889	,,	JAMES	BESS	BESS DITCH IRR SW	026N	113W	28	SW1/4NE1/4	0.57	LaBarge Creek			0	0	0	Stream
OR 02/146	03/17/1889	03/17/1889		JAMES	BESS	ANDERSON AND BESS DITCH IRR SW	026N	113W	28	SW1/4NE1/4	1.14	LaBarge Creek			0	0	0	Stream
OR 02/146	03/17/1889	03/17/1889		ROBERT	ANDERSON	ANDERSON AND BESS DITCH IRR SW	026N	113W	28	SW1/4NE1/4	1.14	LaBarge Creek			0	0	0	Stream
OR 02/146	04/01/1889	04/01/1889		ROBERT	ANDERSON	ANDERSON DITCH IRR SW	026N	113W	28	SW1/4NE1/4	1.71	LaBarge Creek			0	0	0	Stream
OR 02/146	04/01/1889	04/01/1889		JOHN	ANDERSON	ANDERSON DITCH IRR SW	026N	113W	28	SW1/4NE1/4	2	LaBarge Creek			0	0	0	Stream
OR 02/140	05/01/1889	05/01/1889		ARTHUR	STEED	STEED DITCH IRR SW	026N	113W	25	NE1/4NE1/4	3.43	LaBarge Creek			0	0	0	Stream
OR 18/102	07/06/1889	07/06/1889	Fully Adjudicated	RALPH	FRIEND	PHILLIPS & REEL DITCH ACIP TO THIRR SW	026N	113W	26	NE1/4NE1/4	2.28	LaBarge Creek			0	0	0	Stream
OR 01/166	06/20/1884	Spring1884	Fully Adjudicated	RONEY	POMEROY	RONEY R. POMEROY DITCH NO. 1 IRR SW	024N	113W	05	NE1/4SW1/4	0.5	R.R Pomeroy's Spring	z		0	0	0	Sprin
OR 02/146	07/06/1889	07/06/1889	,,uaroaccu	SARAH	REEL	PHILLIPS & REEL DITCH ACT TO THIRR SW	026N	113W	25	NE1/4NE1/4	2.28	LaBarge Creek			0	0	0	Stream
OR 15/317	05/01/1890	05/01/1890		JAMES	MICKELSON	SPRING CREEK DITCH ACT MCGINNIRR SW	026N	114W	14	NE1/4NE1/4	1.14	Spring Creek (14-26-	1		0	0	0	Stream
OR 02/146	05/01/1891	05/01/1891		SARAH	REEL	LABARGE NO. 2 DITCH IRR SW	026N	113W	25	NE1/4NE1/4	6.85	LaBarge Creek			0	0	0	Stream
OR 02/146	05/10/1892	05/10/1892		GEO	WHITMAN	WHITMAN DITCH IRR_SW	026N	114W	04	SE1/4NW1/4	0.43	LaBarge Creek			0	0	0	Stream
OR 02/146	05/15/1893	05/15/1893	Fully Adjudicated	ROBERT	MCILVANE	MCILVANE DITCH IRR_SW	026N	114W	11	SE1/4NE1/4	2	Spring Creek (14-26-	1		0	0	0	Stream
OR 01/166	10/31/1885	10/00/1885	Fully Adjudicated	C	HOLDEN	HOLDEN IRRIGATING DITCH NO. 1 IRR_SW	024N	113W	04	NW1/4NE1/4	2.85	Fontenelle Creek			0	0	0	Stream
-						-												

	1.75	0	0	0	Stream		42.08831	-110.3021	External
12.1		0	12.1	12.1	Reservoir		42.52532	-109.8782	External
35.03		0	35.03	35.03	Reservoir		42.12007	-109.7243	External
		0	0	0	Stream		42.09522	-110.3766	External
	26.01	0	0	0	Stream		42.21391	-110.2517	External
164.83		0	0	164.83	Reservoir		42.29778		External
845397		190250	154584	345397	Reservoir		42.02744	-110.0636	External
		0	0	0	Stream		42.18988	-110.1687	External
	6.53	0	0	0	Stream		42.18007		External
	6.53	0	0	0	Stream		42.20525	-110.551	External
	6.53	0	0	0	Stream		42.19496	-110.5612	External
	6.53	0	0	0	Stream		42.18399	-110.5621	External
	6.53	0	0	0	Stream		42.1769	-110.5704	External
	6.53	0	0	0	Stream		42.20525	-110.551	External
	6.53	0	0	0	Stream		42.17684		External
	6.53	0	0	0	Stream		42.17916	-110.5639	External
	6.53	0	0	0	Stream		42.17910	-110.5623	External
	0.33	0	0	0	Stream		41.9793	-110.3023	External
	11.36	0	0	0	Stream		42.21152	-110.0473	External
		0	0	0					
2	72.14				Stream		41.43173		External
2		0	2	2	Reservoir		42.43172		External
1.81		0	1.81	1.81	Reservoir		42.53855	-109.838	External
2.03		0	2.03	2.03	Reservoir		42.44619		External
1.93		0	1.93	1.93	Reservoir		42.46702		External
		0	0	0	Stream		42.09113	-110.3529	External
8.67		0	8.67	8.67	Reservoir		42.48613	-109.9802	External
2.66		0	2.66	2.66	Reservoir		42.45476	-109.929	External
2.66		0	2.66	2.66	Reservoir		42.44493	-109.9223	External
6.1		0	6.1	6.1	Reservoir		42.49052	-110.0002	External
2.91		0	2.91	2.91	Reservoir		42.43806	-109.9672	External
17.67		0	17.67	17.67	Reservoir		42.49403	-109.9939	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.37736	-110.1221	External
		0	0	0	Stream		42.52496	-110.0431	External
		0	0	0	Stream		42.52498	-110.0431	External
		0	0	0	Spring		42.27248	-110.3406	External
		0	0	0	Stream		42.27961	-110.3653	External
		0	0	0	Stream	Original	42.37736	-110.1221	External
		0	0	0	Stream	Original	42.2723	-110.3994	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.24622		External
		0	0	0	Stream	Original	42.26469	-110.3931	External
		0	0	0	Stream	Original	42.27248		External
		0	0	0	Stream	ipplement	42.27249	-110.3406	External
		0	0	0	Stream	Original	41.90404	-109.8233	External
		0	0	0	Stream	Original	42.08117		External
		0	0	0			42.09611		External
		0	0	0	Stream	Original	42.0809	-110.2433	External
			0	0	Stream	Original	42.0803		
		0			Stream	Original		-110.2823	External
		0	0	0	Spring	Original	42.25541		External
		0	0	0	Spring	Original	42.25541	-110.3461	External
		0	0	0	Stream	Original		-110.3994	External
		0	0	0	Stream	Original	42.27231		External
		0	0	0	Stream	Original	42.26469		External
		0	0	0	Stream	Original	42.24345		External
		0	0	0	Stream	Original	42.26469		External
		0	0	0	Stream	Original	42.26469		External
		0	0	0	Stream		42.21941		External
		0	0	0	Stream		42.21941	-110.3175	External
		0	0	0	Stream		42.21917	-110.3176	External
		0	0	0	Stream	Original	42.25618	-110.3461	External
		0	0	0	Stream		42.20952	-110.2757	External
		0	0	0	Stream		42.20952	-110.2757	External
		0	0	0	Stream		42.20952	-110.2757	External
		0	0	0	Stream		42.20952	-110.2757	External
		0	0	0	Stream		42.20952	-110.2757	External
		0	0	0	Stream		42.20952		External
		0	0	0	Stream		42.21411		External
		0	0	0	Stream	Original	42.2126	-110.2307	External
		0	0	0	Spring	Original	42.08764		External
		0	0	0	Stream	Original	42.21407		External
		0	0	0	Stream	Original		-110.3472	External
		0	0	0	Stream	0	42.21408		External
		0	0	0	Stream	Original	42.21408	-110.2090	External
		0	0	0	Stream	Original	42.2723		External
						Grigiildi			
		0	0	0	Stream		42.09593	-110.2431	External

OR 01/166	05/15/1886	05/15/1886	Fully Adjudicated	CHARLES	RATHBURN	RATHBURN AND POMEROY DITCH	-	024N	114W	12		4					Fontenelle Creek
OR 01/166	07/31/1887	07/00/1887		RONEY	POMEROY	R.R. POMEROY DITCH NO. 2	IRR_SW	024N	113W	08	NE1/4NW1/4	1.14					Fontenelle Creek
OR 01/166	07/31/1887	07/00/1887	6 h a 11 d a 11 a 11	RONEY	POMEROY	R.R. POMEROY DITCH NO. 3	IRR_SW	024N	113W	05	SE1/4SW1/4	0.85					Fontenelle Creek
OR 01/166	12/31/1888	1888	Abandoned	THOS J AND PETER J	GORMAN	JUSTIN POMEROY DITCH		024N	113W	02	NW1/4NE1/4	6.28					Fontenelle Creek
OR 01/166 OR 01/166	09/30/1888 06/20/1889	09/00/1888 Spring1889	Fully Adjudicated Fully Adjudicated	C RONEY	HOLDEN POMEROY	HOLDEN IRRIGATING DITCHES NO RONEY R. POMEROY DITCH NO. 4	-	024N 024N	113W 113W	04 05	NE1/4NE1/4 SE1/4SW1/4	1.07					Fontenelle Creek Fontenelle Creek
OR 01/166	12/31/1889	1889	Fully Aujuulcateu	RONEY	POMEROY	RONEY R. POMEROY DITCH NO. 2	-	024N 024N	113W	03	NE1/4NW1/4	1.14					Fontenelle Creek
OR 01/166	08/31/1889	08/00/1889		THOS J AND PETER J		GORMAN BROS. NORTH DITCH NO. 2	-	024N	113W	31	SE1/4SE1/4	0.29					Fontenelle Creek
P184317.0W	09/17/2007	00/00/1005	Complete	SWEPI LP	Gonnan	WARBONNET 13-14	MIS	030N	108W	14	SW1/4SW1/4	155	863.00	140	N	615	Fontenene ereek
P187275.0W	05/13/2008		Complete	ULTRA RESOUR(		RAINBOW 13-30	MIS	030N	107W	30	SW1/4SW1/4	150	650.00	300	N	576	
P188746.0W	09/02/2008		Complete	DENNIS	JACOBSON	DENNIS JACOBSON #1	DOM GW	024N	116W	11	SW1/4NE1/4	10	100.00	30	N	70	
CR CC69/431	06/15/1882	06/15/1882		YOSE CATTLE CC		MILLER NO. 2 DITCH	IRR SW	026N	114W	14	NE1/4NW1/4	0.85					LaBarge Creek
CR CC85/200	09/14/1896	09/14/1896	Fully Adjudicated	RODWELL RANC		ENL RATHBURN AND POMEROY D	IIRR_SW	024N	114W	12		2.35					Fontenelle Creek
P195846.0W	06/02/2011		Incomplete	DAWAYNE	PALMER	PALMER CABIN WELL	DOM_GW	024N	116W	11	NW1/4NE1/4	24					
CR CC91/005	07/02/1900	07/02/1900	Fully Adjudicated	CALVIN BARNES		ENL. FONTENELLE IRRIGATING DIT	IRR_SW	024N	114W	11		0.37					Fontenelle Creek
CR CC91/007	02/14/1895	02/14/1895	Fully Adjudicated	V CROSS CATTLE		EVA A. MCCRAY NO. 1 ACT FONTE	IIRR_SW	024N	114W	06		0.28					Fontenelle Creek
CR CC91/008	04/30/1888	04/00/1888	Fully Adjudicated			ISLAND ACIPT FONTENELLE IRR, C	IRR_SW	024N	114W	06		2.85					Fontenelle Creek
P196403.0W	08/04/2011		Incomplete	JOHN AND CONNIE	VIGNEAUX	VIG #1	DOM_GW	024N	116W	23	NE1/4SW1/4	25					
P34648.0D	03/01/2012		Cancelled	BP AMERICA PR JENNIFER	KNIPPA	MOXA FIELD #2 WATER HAUL		023N	111W	18	NE1/4NW1/4	0.39					Green River
P34686.0D	04/18/2012		Cancelled	WYDOT MATT	SIMPSON	B123016 WATER HAUL		024N	112W	07	NE1/4NE1/4	1					Fontenelle Creek
CR UW15/209	08/29/1988		Fully Adjudicated	WILLIAM	THOMAN	EIGHTEEN MILE FLOWING WELL P		024N	109W	20	NW1/4SW1/4	10					
P198335.0W	06/07/2012		Incomplete	G AND E LIVEST	001/0155	OLD FALCON 1-36	STK	030N	108W	36	NE1/4NE1/4	25					5
P34735.0D	07/12/2012	00/24/2002	Cancelled		COYNER	FONTENELLE CREEK CAMPGROUN		024N	112W	06		0					Fontenelle Creek
CR CC92/012 P1259.5D	09/24/2002 05/07/1908	09/24/2002	Fully Adjudicated	BROADBENT LA	TAVIOD	ENL. UINTA CANAL NO. 3	RES IRR SW	015N 025N	115W 112W	05 20	NE1/4SE1/4	2.66					Black's Fork River
P1259.5D P34742.0D	03/07/1908		Rejected Cancelled	GREEN RIVER LAJULIUS DENBURY ONSHJIM	TAYLOR PILON	GREEN RIVER CANAL RILEY RIDGE PLANT WATER HAUL	IKK_SVV	025N 029N	112 W	20	SW1/4SE1/4 SW1/4SE1/4	0.44					Green River Green River
P198721.0W	06/03/2012		Complete	BUREAU OF LAN	FILON	FOUR MILE GULCH WELL	STK	023N 024N	111W	35	NE1/4NE1/4	25	800.00	0	N	0	Green River
P198728.0W	06/03/2010		Complete	USDI-BUREAU C		BENCH WELL	STK	024N	109W	18	SW1/4SE1/4	10	825.00	286	N	443	
P198729.0W	06/03/2010		Complete	USDI-BUREAU C		TWELVE MILE SINK WELL	STK	023N	109W	05	NW1/4NE1/4	25	820.00	0	N	0	
P198795.0W	07/02/2012		Complete	LINN OPERATIN		STUD HORSE BUTTE 15-16	MIS	029N	108W	16	SW1/4SE1/4	84	680.00	145	N	670	
P198796.0W	07/02/2012		Complete	LINN OPERATIN		STUD HORSE BUTTE 16-20	MIS	029N	108W	20	SE1/4SE1/4	120	680.00	145	N	670	
P34785.0D	08/24/2012		Cancelled	SUBLETTE COUTJOHN	PENTON	SUBLETTE COUNTY ROAD AND BR	I	028N	112W	13	SE1/4SW1/4	1					Green River
P34788.0D	08/24/2012		Cancelled	SUBLETTE COUTJOHN	PENTON	SUBLETTE COUNTY ROAD AND BR	I	027N	115W	21	NW1/4SE1/4	1					LaBarge Creek
P199362.0W	06/03/2010		Complete	USDI-BUREAU C		LOMBARD WELL	STK	023N	110W	09	SW1/4SE1/4	25	905.00	0	N	0	
CR CC93/129	05/31/1900	05/31/1900	Fully Adjudicated	FISH CREEK FLYI		GAP DITCH	IRR_SW	026N	113W	19	NE1/4SW1/4	3.15					LaBarge Creek
P199445.0W	12/13/2012		Complete	SWEPI LP		RAINBOW 13-29 WATER WELL	MIS	030N	107W	29	SW1/4SW1/4	150	900.00	175	N	740	
P199923.0W	03/14/2013		Incomplete	LINN OPERATIN		STUD HORSE BUTTE 23-16	MIS	029N	108W	16	NE1/4NW1/4	150					
P199968.0W	03/25/2013		Incomplete	ROGER AND DIANE	GOODMAN	GOODMAN	DOM_GW	025N	112W	07	SE1/4SE1/4	20					
P34937.0D	04/01/2013		Complete	BASIC ENERGY SBOBBY	JACOBSON	BASIC ENERGY SERVICES LP WATE		026N	112W	05	NW1/4NW1/4	0.5					Green River
P200075.0W	04/05/2013		Incomplete	LINN OPERATIN		ENL. SHB 15-16	MIS	029N	108W	16	SW1/4SE1/4	0					
P200076.0W	04/05/2013		Incomplete	LINN OPERATIN		ENL. SHB 16-20	MIS	029N	108W	20	SE1/4SE1/4	0		265		070	
P200462.0W	06/11/2013		Incomplete		SIMPSON	CORONA 7-19	MIS; STK	029N	108W	19	SW1/4NE1/4	85	900.00	265	N	870	Croop Biyor
P35036.0D P200488.0W	06/24/2013		Complete	WYDOT MATT JONATHON AND STEE		P141021 WATER HAUL (2) LAMB 1	TEM	022N 024N	109W 115W	18 19	NE1/4SE1/4	1 25					Green River
P200488.0W P200496.0W	06/14/2013 06/17/2013		Incomplete Incomplete	WILLIAM DARIN	MAYER	DONNA 1	DOM_GW; STK DOM_GW; STK	024N 024N	115W 116W	25	NW1/4SW1/4 NW1/4SE1/4	25					
P200490.0W	05/24/2013		Incomplete	OFFICE OF STAT	WATER	OVERFILING OF SHB 15-16	STK	024N 029N	108W	16	SW1/4SE1/4	25					
P200497.0W	05/24/2013		Incomplete	OFFICE OF STAT		OVERFILING OF SHB 15-10	STK	029N	108W	20	SE1/4SE1/4	25					
P200499.0W	05/24/2013		Incomplete	OFFICE OF STAT		OVERFILING OF SHB 23-16	STK	029N	108W	16	NE1/4NW1/4	25					
P200786.0W	07/23/2013		Complete	LINN OPERATIN		RAINBOW 3-31	MIS	030N	107W	31	NE1/4NW1/4	85	760.00	180	Ν	630	
P200787.0W	07/23/2013		Incomplete	LINN OPERATIN		RAINBOW 15-31	MIS; STK	030N	107W	31	SW1/4SE1/4	150					
CR CC93/259	11/29/2001	11/29/2001		W & M THOMA		THOMAN PIPELINE NO. 1	DOM_SW	023N	111W	17	SW1/4NW1/4	0.056					Green River
CR CC93/260	06/13/2002	06/13/2002	Fully Adjudicated	EXXON CORPOR		ENL. EXXON'S SHUTE CREEK PIPEL	I DSP; FIR; IND_SW	023N	111W	18	NE1/4NW1/4	0.581					Green River
CR CC93/263	11/12/1968	11/12/1968	Fully Adjudicated	JACK C AND LYNDA J	SIMS	ENL. SMITH DITCH	IRR_SW	026N	113W	27	NE1/4NE1/4	0.24					LaBarge Creek
P201039.0W	09/18/2013		Incomplete	LINN OPERATIN		CORONA 47-14	MIS	028N	109W	14	SW1/4NE1/4	150					
P201043.0W	09/09/2013		Incomplete	MICHAEL	TRAUGHBER	TRAUGHBER #2	DOM_GW	026N	112W	06	NE1/4SE1/4	21					
CR CC94/285	08/29/2011		Fully Adjudicated	MICHAEL W AND CIN	ETRAUGHBER	TRAUGHBER PUMP	DOM_SW	026N	112W	06	NE1/4SE1/4	0.056					Green River
CR CC94/286	08/27/2007	08/27/2007	Fully Adjudicated			JAMES CLEMENT PUMP POINT	DOM_SW	026N	112W	06	SE1/4NE1/4	0.056					Green River
CR CC94/287	07/23/2004	07/23/2004	Fully Adjudicated	JACK LAND NANCY B	ROSE	ROSE DOMESTIC PUMP	DOM_SW	029N	111W	28	SW1/4SE1/4	0.056		_			Green River
P201758.0W	03/25/2014		Complete	EXXON MOBIL C		SC TEST WELL 1	TST	023N	111W	18	NE1/4NW1/4	0	15.00	7	N	0	
P201760.0W	03/25/2014		Complete	EXXON MOBIL C	00055	SC TEST WELL 3	TST	023N	111W	18	NE1/4NW1/4	0	15.00	8	N	0	
P202016.0W	05/07/2014		Incomplete		CORFF	CORFE	DOM_GW	026N	114W	11	NW1/4NW1/4	25					
P202067.0W P35233.0D	05/16/2014 06/23/2014		Incomplete	CHRISTOPHER	CORFF	CORFF WELL	DOM_GW	026N 025N	114W 112W	02	NW1/4SW1/4	25 0.11					Green River
			Complete	RS BENNETT CO RAY AND AMY		GREEN RIVER WATER HAUL ALEXANDER #1	TEM			05 29	SW1/4SW1/4	0.11 21					Green River
P202411.0W P35255.0D	07/10/2014 07/28/2014		Incomplete Complete	SUBLETTE COUNJOHN	ALEXANDER PENTON	SUBLETTE COUNTY ROAD & BRID	DOM_GW	026N 029N	112W 111W	29	NW1/4NW1/4 SW1/4SE1/4	1					Green River
P202654.0W	07/28/2014 08/18/2014		Incomplete		LAPOINTE	LAPOINTE WELL	DOM GW	029N 024N	111W 116W	28 11	SW1/4SE1/4 SW1/4NE1/4	25					Green niver
P35278.0D	08/25/2014		Complete	DENBURY ONSHJAMES	PILON	DENBURY RESOURCES NO 4 WATE	-	024N 029N	110W	28	SE1/4SW1/4	0.44					Green River
P202738.0W	08/28/2014		Incomplete	CRYSTAL	WEST	CRYSTAL WEST NO. 1	DOM GW	026N	114W	02	SE1/4SW1/4	25					
P35291.0D	09/26/2014		Complete	SUBLETTE COUNJOHN	PENTON	SUBLETTE COUNTY ROAD AND BR	-	027N	115W	21	NW1/4SE1/4	1					LaBarge Creek
P35295.0D	09/25/2014		Complete	JACKIE	NIX	CGEC GREEN WATER HAUL	TEM	022N	109W	18	NE1/4SE1/4	0.06					Green River

0	0	0	Stream	Original		42.0791	-110.2899	External
0	0	0	Stream	Original		42.08067	-110.2658	External
0	0	0	Stream	Original		42.08445	-110.2664	External
0	0	0	Stream			42.09857	-110.2095	External
0	0	0	Stream	Original		42.09631	-110.235	External
0	0	0	Stream	Original		42.08405	-110.2684	External
0	0	0	Stream	Original		42.08043	-110.2659	External
0	0	0	Stream	Original		42.09959	-110.1936	External
0	0	0	Well	-	Ν	42.56361	-109.6936	SEO
0	0	0	Well		Ν	42.535	-109.6539	External
0	0	0	Well		Ν	42.0752	-110.5449	External
0	0	0	Stream	Original		42.24622	-110.3558	External
0	0	0	Stream			42.07915	-110.2899	External
0	0	0	Well			42.07909	-110.5492	External
0	0	0	Stream			42.0805	-110.297	External
0	0	0	Stream			42.09522	-110.3769	External
0	0	0	Stream			42.09522	-110.3766	External
0	0	0	Well			42.0435	-110.5517	SEO
0	0	0	Stream			41.97806	-110.0472	SEO
0	0	0	Stream			42.08319	-110.1604	External
0	0	0	Well			42.04252	-109.8049	External
0	0	0	Well			42.53139		SEO
							-109.6572	
0	0	0	Stream			42.08936	-110.1721	External
0	0	0	Stream			41.30671	-110.3961	External
0	0	0	Stream			42.12704	-110.179	SEO
0	0	0	Stream			42.46065	-110.0735	External
0	0	0	Well		N	42.02139	-109.9717	External
0	0	0	Well		N	42.13722	-109.8503	External
0	0	0	Well		N	42.00361	-109.7931	External
0	0	0	Well		N	42.47521	-109.7209	SEO
0	0	0	Well		N			SEO
0	0	0	Stream			42.40184	-110.104	External
0	0	0	Stream			42.31439	-110.4889	External
0	0	0	Well		Ν	41.9805	-109.8894	External
0	0	0	Stream			42.21984	-110.3153	External
0	0	0	Well		Ν	42.53438	-109.6339	SEO
0	0	0	Well			42.48731	-109.7267	SEO
0	0	0	Well			42.1568	-110.1923	SEO
0	0	0	Stream			42.27018	-110.189	External
0	0	0	Well			42.47653	-109.7217	SEO
0	0	0	Well			42.46207	-109.7362	SEO
0	0	0	Well		Y	42.47025	-109.7594	SEO
0	0	0	Stream			41.88185	-109.8086	External
0	0	0	Well			42.04378	-110.5034	SEO
0	0	0	Well			42.02963	-110.5275	SEO
0	0	0	Well			42.47644	-109.7217	SEO
0	0	0	Well			42.46207	-109.7364	SEO
0	0	0	Well			42.48748	-109.7267	SEO
0	0	0	Well		Ν	42.5308	-109.6483	SEO
0	0	0	Well			42.51965	-109.6438	SEO
0	0	0	Stream			41.9779	-110.0361	External
0	0	0	Stream			41.9793	-110.0475	External
0	0	0	Stream			42.21333	-110.25	External
0	0	0	Well			42.40562	-109.7704	SEO
0	0	0	Well			42.26219	-110.191	SEO
0	0	0	Stream			42.26284	-110.1922	External
0	0	0	Stream			42.26377	-110.1918	External
0	0	0	Stream			42.46066	-110.0736	External
0	0	0	Well		Ν	41.97942	-110.0472	SEO
0	0	0	Well		Ν	41.97897	-110.0477	SEO
0	0	0	Well			42.25936	-110.3626	SEO
0	0	0	Well			42.26524	-110.3622	SEO
0	0	0	Stream			42.1712	-110.1871	External
0	0	0	Well			42.21155	-110.1875	SEO
0	0	0	Stream			42.46019	-110.1875	External
0	0	0	Well			42.0766	-110.5469	SEO
0	0	0	Stream			42.0766	-110.5469	SEO
0	0	0	Well			42.4333	-110.3576	SEO
0	0	0	Stream			42.2033	-110.3370	External
0	0	0	Stream			42.5144	-109.8089	SEO
0	0	0	Jucani			41.0024	103.0003	320

72.14 0

0.056 0.134 26.01

0.056 0.056 0.056

#### District 10 Water Rights

District 10	Nater Rights																								
													Total		Ct = 13 = 18/=4		Darath Of	Diver Capa	acity		Cine of		Char		
													Flow(CFS)/ Appropriation(		StaticWat erLevel	Well	Depth Of Pump	Total a Capacity Head				Facility	Cherr SupplyTy Analy		Longitud Created
WR Numb	er Priority Date	Priority text	Summary WR Status	Company	First Name	Last Name	Facility Name	Uses	Twn	Rng	Sec	Qtr-Qtr		depth (Ft)		Log(Y/N)	(Ft) Stream Source	(AF/Yr) (CF			(AF)	type	pe Y/M		
P103558.0			Cancelled				ALPINE MESA WATER WELL #2		031N	110W	02	SE1/4NW1/4	100						0	0	0	Well			-109.922 External
P104.0W P105267.0	01/14/1959 V 03/14/1997		Fully Adjudicated	TOWN OF BIG PINEY TOWN OF MARBLETON			BIG PINEY #1 MARBLETON NO. 5 WELL	MUN_GW MUN_GW	030N 030N	112W 111W	36 30	SW1/4NE1/4 NW1/4NE1/4	100 300	120.00 827.00	3 133	N	0 460		0	0	0	Well Well	N	N 42.54257 N 42.5599	-110.132 External -110.112 External
P105267.0			Fully Adjudicated Complete	TOWN OF MARBLETON	JON A AND NICOLE	COLSON	PERSH #3	DOM_GW	030N 029N	111W 111W	30 18	SE1/4SE1/4	15	230.00	90	IN	460		0	0	0	Well	01 1		-110.112 External
P107109.0			Fully Adjudicated	EXXON CORPORATION			EXXON #1	MIS	028N	114W	22	SW1/4NE1/4	18	129.00	0	N	110		0	0	0	Well	N		
P110396.0			Complete		TERRY L	EATON	EATON #1	DOM_GW	030N	112W	03	SW1/4SE1/4	10	185.00	40				0	0	0	Well	Y		
P116643.0			Fully Adjudicated	BIG PINEY, TOWN OF			BIG PINEY WELL #8	MUN_GW	030N	111W	31	SW1/4NW1/4	150	237.00	20	N	210		0	0	0	Well	N		-110.122 External
P1202.0W P131200.0	05/05/1964 V 12/01/2000		Fully Adjudicated Complete	TOWN OF BIG PINEY			BIG PINEY #3 CORDER NO. 1	MUN_GW STK	030N 029N	112W 113W	36 03	SW1/4NE1/4 SW1/4SE1/4	75 10	332.00 120.00	8 75	N	110		0	0	0	Well Well	VI 1		-110.132 External -110.285 External
P134478.0			Fully Adjudicated	TOWN OF MARBLETON			MARBLETON WELL NO. 6 WEL		030N	111W	20	SE1/4SW1/4	150	1016.00	48	N	640		0	0	0	Well	N		-110.098 External
P144707.0			Fully Adjudicated		MICHAEL R.	HUGHES	SLEEPY HOLLOW #2	MIS	030N	111W	20	NE1/4SW1/4	18	180.00	15	Ν	68		0	0	0	Well	N	1	External
P147766.0			Fully Adjudicated	JOINT BIG PINEY-MARBLETON AIRPORT BOARD	NANCY	GUIO	AIRPORT #1	MIS	030N	111W	17	SW1/4SW1/4	18	200.00	50	N	145		0	0	0	Well	N	1	External
P14834.0V P156164.0			Fully Adjudicated Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO. 9			FOOTBALL FIELD NO. 1 WELL MIDWAY MALL NO. 1 WELL	MIS	030N 030N	111W 111W	31 31	NE1/4SW1/4 NE1/4NE1/4	230 25	90.00 230.00	0 25	N	60 50		0	0	0	Well Well	N		-110.117 External -110.107 External
P156165.0			Incomplete				MIDWAY MALL NO. 2	MIS	030N	111W	31	NE1/4NE1/4	100	230.00	25	N.	50		0	0	0	Well			-110.107 External
P158013.0			Complete		EDWARD AND MARIAN	N HASELHUHN	E & M #1	DOM_GW	030N	111W	03	SW1/4NE1/4	12	400.00	22	N	140		0	0	0	Well	N		-110.052 External
P161424.0			Complete		BEN	WHITMAN	CT #1	DOM_GW	031N	111W	34	SW1/4NW1/4	25	300.00	19	N	170		0	0	0	Well	N		-110.063 External
P162461.0			Complete		DAN AND RILEY	ALEXANDER	POLLYWOG #1 WELL	MIS	029N	111W	08	NW1/4SW1/4	75	192.00	0	N	168 287		0	0	0	Well	N.		-110.103 External
P162462.0 P165477.0			Complete Complete		DAN & RILEY KEARY R. AND DIANA	ALEXANDER PAINTER	POLLYWOG #2 WELL GOLDEN EAGLE SALVAGE	MIS DOM_GW	029N 030N	111W 111W	08 03	NW1/4SW1/4 SE1/4NE1/4	50 10	400.00 400.00	0 15	N	150		0	0	0	Well Well	N		-110.103 External -110.049 External
P166849.0			Complete		LARRY	RICE	BAR W BAR RANCH SHIPPING			113W	11	NE1/4NE1/4	20	280.00	200	N	240		0	0	0	Well	N		-110.296 External
P167772.0	V 05/09/2005		Fully Adjudicated		TOM	EVANS	SHOP WELL NO. 1	MIS	029N	111W	08	SW1/4NW1/4	10	100.00	36	Ν	67		0	0	0	Well	N	42.51261	-110.103 External
P169592.0			Complete		BOBBIE	HAMMER	HAMMER 1	DOM_GW	030N	112W	03	NE1/4SE1/4	20	180.00	50	N	140		0	0	0	Well	N		-110.164 External
P169594.0			Complete		STEPHEN F.		WHICKER 1	DOM_GW	031N	111W	27	SW1/4SW1/4	15	315.00	63	N	240 240		0	0	0	Well	N	N 42.63533	
P170957.0 P171443.0			Complete Complete		STEPHEN F.	LOSIK, JR.	LOSIK WELL #1 FAIR GROUNDS #2	DOM_GW MIS	030N 030N	111W 111W	10 17	SE1/4SE1/4 SW1/4NE1/4	25 25	312.00 150.00	26 45	N	100		0	0	0	Well Well	N		-110.05 External -110.092 External
P171917.0			Complete				HEYDT NO. 1	DOM_GW	030N	112W	10	NW1/4NW1/4	18	395.00	62	N	90		0	0	0	Well	N		-110.179 External
P172599.0	V 12/30/2005		Complete		DANIEL J AND NANCY	SCHMID	LITTLE SPIRIT LAKE #1	DOM_GW	026N	112W	05	SW1/4SW1/4	24	120.00	14	N	110		0	0	0	Well	М	42.25889	-110.189 External
P172707.0			Complete		JONATHON R AND MA		SAID #1	DOM_GW	030N	111W	11	NW1/4SE1/4	10	265.00	75	N	220		0	0	0	Well	N		-110.032 External
P172950.0			Complete		JUSTIN N.	HOUSLEY	HOUSLEY 4	DOM_GW	026N	112W	07 07	NE1/4SW1/4	4 17	200.00	30 10	N	150 160		0	0	0	Well	N		
P173695.0 P174613.0			Complete Complete	REES-TRIANGLE 5, LLC			RW #3 CONSTANCE #1	DOM_GW DOM_GW	029N 030N	112W 112W	11	SW1/4NW1/4 NW1/4SE1/4	22	200.00 165.00	35	N	160		0	0	0	Well	N		-110.239 External -110.153 External
P175825.0			Fully Adjudicated				SUBLETTE COUNTY WEED AND	-	030N	111W	17	SE1/4NE1/4	20	141.00	40	N	80		0	0	0	Well	1		-110.087 External
P176152.0	V 06/30/2006		Fully Adjudicated	BADGER CREEK PROPERTIES			MCCLAIN NO. 3 WELL	MIS	029N	111W	08	SW1/4NW1/4	25	120.00	40	Ν	80		0	0	0	Well	N	42.51143	-110.103 External
P176544.0			Complete				TROUT RANCH ASSOCIATION I		031N	110W	05	NW1/4SW1/4	25	195.00	106	N	138		0	0	0	Well	N		External
P177416.0 P179188.0			Complete Complete		DOUGLAS AND MINDY	WARR	FRIENDLY CREEK #36 TRY AGAIN #2	DOM_GW DOM_GW	030N 030N	112W 113W	03 05	NE1/4SE1/4 SW1/4NW1/4	10 18	320.00 100.00	100 16	N	240 70		0	0	0	Well Well	N		-110.166 External -110.335 External
P179188.0			Complete				HAWKER #1	DOM_GW	030N	113W	11	NW1/4SE1/4	20	270.00	50	N	180		0	0	0	Well	1		-110.034 External
P179684.0			Complete	RANCH HOMES INC			FRIENDLY CREEK 3-37	DOM_GW	030N	112W	03	NE1/4SE1/4	18	158.00	50	N	100		0	0	0	Well	1		-110.167 External
P179733.0			Complete		MIKE	SCHAFFER	SCHAFFER #4	DOM_GW; STH	K 028N	112W	23	SW1/4SW1/4	25	140.00	35	Y	120		0	0	0	Well	N	N 42.38961	-110.127 External
P181016.0			Complete		RANDY AND APRIL	HILL	RANDY HILL FAMILY WELL	DOM_GW	030N	110W	19	SW1/4SE1/4	10	90.00	30	N	65		0	0	0	Well	N		-109.993 External
P181028.0			Complete		MAX BLAINE	THOMAN TALBOTT	PIT #1	DOM_GW DOM_GW	026N	112W	07 03	SE1/4NE1/4	5 25	65.00	7 2.9	N	55		0	0	0	Well Well	N		-110.193 External
P181816.0 P181822.0			Complete Complete		ROY W.	TALBOTT	TALBOTT #1 HUBBERT #1	DOM_GW	030N 030N	111W 112W	03	SW1/4NW1/4 SE1/4NE1/4	25	15.00 320.00	100	N	300		0	0	0	Well	1	N 42.61269 N 42.61527	-110.062 External -110.166 External
P182961.0			Cancelled				RHR IRR #1	IRR_GW; STK	031N		05	NE1/4SW1/4	100						0	0	0	Well			-110.448 External
P182994.0	V 08/20/2007		Cancelled				RHR #1	DOM_GW	031N	114W	06	SE1/4NW1/4	12						0	0	0	Well		42.70433	-110.468 External
P182995.0			Cancelled				RHR #2	STK	031N	114W	04	NE1/4NE1/4	12						0	0	0	Well			-110.419 External
P183939.0 P2063.0W	V 11/28/2007 08/21/1967		Complete Abandoned	GULF OIL CORPORATION	A KENT AND PAULA	PHARIS	PHARIS SWEETWATER GULF OIL CORP BIG PINEY MES	DOM_GW	031N 029N	111W 113W	34 36	SW1/4SW1/4 NW1/4SW1/4	21 50	200.00 765.00	20 217	N	180		0	0	0	Well Well	N		-110.065 External -110.257 External
P2064.0W	08/21/1967		Abandoned	GULF OIL CORPORATION			GULF OIL CORP BIG PINET ME	-	029N	113W	36	SW1/4NW1/4	50	825.00	190				0	0	0	Well			-110.257 External
P391.0W	09/16/1960		Incomplete	EL PASO NATURAL GAS CO.			COMPRESSOR STATION #23 W			113W	20	NE1/4SE1/4	65	175.00	20				0	0	0	Well	N		-110.289 External
P58788.0V			Fully Adjudicated				TOWN OF BIG PINEY #6	MUN_GW	030N	112W	36	SW1/4NE1/4	100	901.00	8.2	N	540		0	0	0	Well	N		-110.132 External
P63614.0V			Fully Adjudicated	DENBURY ONSHORE LLC			WYOMING ELECTRIC NO. 1 WI		029N	111W	08	SW1/4NW1/4	9	90.00	44	N	80		0	0	0	Well	N		-110.103 External
P69081.0V P70447.0V			Unadjudicated Fully Adjudicated	DJK PROPERTIES, LLC			MCCHESNEY #1 SPOTSYLVANIA NO. 1 WELL	DOM_GW MUN_GW	029N 030N	111W 111W	18 20	SE1/4SE1/4 SE1/4SW1/4	21 160	225.00 800.00	75 101	Y N	100 666		0	0	0	Well Well	N		-110.108 External -110.098 External
P74811.0V			Complete		JON A AND NICOLE	COLSON	PUNTENEY #2	DOM_GW	029N		18	SE1/4SE1/4	25	212.00	75	N.	000		0	0	0	Well	N		-110.108 External
P88832.0W			Fully Adjudicated				ENL MARBLETON NO. 2 WELL	MUN_GW	030N	111W		NE1/4SE1/4	0	586.00	0				0	0	0	Well	Л		-110.107 External
P88833.0V			Fully Adjudicated				ENL MARBLETON NO. 1 WELL	-	030N	111W	30	NE1/4SE1/4	0	605.00	0				0	0	0	Well	N		-110.107 External
P88834.0V P95671.0V			Fully Adjudicated		RICHARD F.	GORDON	ENL MARBLETON NO. 3 WELL GORDON #3	MUN_GW IRR_GW	030N 030N	111W 112W	30 10	NW1/4NE1/4 NE1/4NE1/4	0 50	820.00 295.00	6 61	N	120		0	0	0	Well Well	Y		-110.112 External -110.166 External
P96484.0V			Incomplete Fully Adjudicated	SUBLETTE SCHOOL DISTRICT NO. 9	NCHAND F.	SONDON		MIS	030N		31	NE1/4NE1/4 NE1/4SW1/4	50 60	295.00 95.00	5	N	65		0	0	0	Well	N		-110.106 External
P97253.0V			Fully Adjudicated				PLAINVIEW #2	MIS	029N	112W	09	SW1/4SE1/4	7	210.00	165				0	0	0	Well	N		-110.191 External
P10186.0S		10/13/1987	Complete		BILL AND CARRIE	BUDD	QUARTER CIRCLE 2 STOCK RES	ESTO	031N	113W	36	NE1/4SE1/4					Budd Spring Draw		0	0.53		Reservoir			-110.242 External
P10304.0S P10464.0S		02/03/1988	Complete		TONI GILCHRIST	DAVID	DAVID #1 STOCK RESERVOIR		030N		12	NE1/4NW1/4					Toni's Meadow D		0	19.59 3.28		Reservoir			-110.019 External
P10464.05 P10468.05		09/12/1988 09/12/1988	Complete Complete				SOUTH MESA STOCK RESERVO BASIN STOCK RESERVOIR		032N 033N	110W 110W	02 02	NW1/4SE1/4 SW1/4SE1/4					South Mesa Draw Airy Basin Draw	3.28 12.99	0	3.28		Reservoir Reservoir			-109.92 External -109.949 External
P10809.0R		08/31/1998	Complete				SEVEN MILE RIVER RANCH NO		034N		31	NW1/4NW1/4					Faler Spring	12.00	0	5.1		Reservoir			-110.037 External
P11562.0S		04/06/1992	Complete				BIRD NIPPLE STOCK RESERVOI		027N		06	SE1/4NE1/4					Bird's Nipple Drav	1.47	0	1.47		Reservoir			-110.192 External
P11563.0S		04/06/1992	Complete				CHEVRON STOCK RESERVOIR		027N		23	SW1/4NE1/4					Chevron Draw	0.7	0	0.7		Reservoir			-110.235 External
P11564.0S		04/06/1992	Complete				BIG MESA STOCK RESERVOIR		028N		27	SE1/4SE1/4					Big Mesa Draw	1.46	0	1.46		Reservoir			-110.249 External
P11565.0S P11566.0S		04/06/1992 04/06/1992	Complete Complete				RADIO TOWER STOCK RESERV SOUTH PINEY RIDGE STOCK RE		028N 029N		28 22	NE1/4NE1/4 SE1/4NW1/4					Radio Tower Drav Tartar Gulch Sprir		0	1.46 1.46		Reservoir Reservoir			-110.153 External -110.178 External
P11567.05		04/06/1992	Complete				COTTONWOOD CREEK STOCK		02.9N		14	SE1/4NW1/4					Bleak Draw	1.06	0	1.40		Reservoir			-110.176 External
P11568.0S		04/06/1992	Complete				ELK HORN STOCK RESERVOIR		032N		25	NW1/4SE1/4					Elk Horn Draw	10	10	0		Reservoir			-110.247 External
P11569.0S		04/06/1992	Complete				BENCH CORRAL STOCK RESERV		032N	113W	28	NE1/4SE1/4					South Antelope D		0	3.48		Reservoir			-110.302 External
P11570.0S		04/06/1992	Complete		VANCE	DDEWED	RED HILLS STOCK RESERVOIR		032N		32	NW1/4NE1/4					Red Hills Draw	1.46	0	1.46		Reservoir			-110.092 External
P11689.0R P11690.0R		01/16/2004 01/16/2004	Complete Complete	RYEGRASS RANCH OWNERS ASSOCIATION RYEGRASS RANCH OWNERS ASSOCIATION	VANCE VANCE	BREWER BREWER	MACMO #1 MACMO #4	WET FIS	033N 033N		11 13	SE1/4SE1/4 NW1/4NW1/4					North Cottonwoo North Cottonwoo		0	0.96 3.57		Reservoir Reservoir			-110.295 External -110.29 External
P11691.0R		01/16/2004	Complete	RYEGRASS RANCH OWNERS ASSOCIATION	VANCE	BREWER	MACMO #3	FIS	033N		14	NE1/4NE1/4					North Cottonwoo		0	0.68		Reservoir			-110.295 External
P11692.0R	01/16/2004	01/16/2004	Complete		VANCE	BREWER	MACMO #2	WET	033N	113W	11	SE1/4SE1/4					North Cottonwoo	i C	0	0.19		Reservoir		42.83908	-110.295 External
P11697.0R		8/24/2001	Complete		JEROME	MOORE	CAROLINE	FIS; WL	033N		10	SW1/4SE1/4					Green River	7.31	5.96			Reservoir			-109.966 External
P11740.0R P11890.0D	03/19/2002 05/21/1913	03/19/2002	Complete Complete				MEADOW CANYON COTTONWOOD CANAL	IRR_SW	031N 032N	112W 111W	20 21	SW1/4NW1/4 NE1/4NE1/4	70.33				West Meadow Ca Cottonwood Cree		4.21 1 0		5.11 0	Reservoir Stream			-110.22 External -110.07 External
r 11030.0D	03/21/1313	00/21/1010	compiete				COTTON WOOD CAINAL		03211	TTTAA	~1	1421/41421/4	10.35				Cottonwood Cree		U	U	U	Jucalli		42.74319	110.07 External

P11910.0R	11/22/2004	11/22/2004	Complete					FIS; WL	033N	114W	21	NE1/4NW1/4		North Cottonwood C			0	5.3	5.3
P12153.0S	08/15/1994	08/15/1994	Complete				PRICE STOCK RESERVOIR	STO	032N	114W	28	NE1/4SW1/4		Price Draw	0.04		0.04	0	0.04
P12174.0S	12/01/1994	12/01/1994	Complete				RILEY RIDGE NO. 1 STOCK RES		029N	114W	16	NW1/4SE1/4		Mertensia Draw	0.11		0	0.11	0.11
P12175.0S	12/01/1994	12/01/1994	Complete				RILEY RIDGE NO. 2 STOCK RES		029N	114W	15	NW1/4SW1/4		Gilia Draw	0.1		0	0.1	0.1
P12176.0S	12/01/1994	12/01/1994	Complete				RILEY RIDGE NO. 3 STOCK RES		029N	114W	10	SE1/4SW1/4		Purshia Spring	0.11		0	0.11	0.11
P12451.0R	02/03/2005	02/03/2005	Cancelled				ENLARGEMENT OF CLARA'S PI		033N	112W	19	SE1/4SW1/4		Clara Draw			0	16.54	29.24
P12498.0R	11/19/2001	11/19/2001	Complete				1ST ENL OF JOE BUDD RESERV	-	031N	112W	20	SE1/4SW1/4		West Meadow Canyo			36.91	0	152.96
P12645.0S	11/20/1995	11/20/1995	Complete				JAG	STO	033N	114W	27	NE1/4SW1/4		Spring Creek	15		0	15	15
P13169.0R	02/08/2008	02/08/2008	Complete		SHAUN AND JOHN G	ANDRIKOPOULOS	SAGO RESERVOIR	WL	032N	111W	24	SE1/4SE1/4		Sago Creek	1.16		1.16	0	1.16
P13172.0R	04/28/2008	04/28/2008	Complete		SHAUN AND JOHN G	ANDRIKOPOULOS	ALEXANDER RESERVOIR	WL	032N	111W	25	SW1/4NW1/4		Jewett Creek	4		4	0	4
P13458.0D	10/30/1911	10/30/1911	Cancelled	FRANK FEAR CATTLE CO.			LINCOLN CANAL	DOM_SW; IRR_	-	111W	31	SW1/4NE1/4	0	North Piney Creek			0	0	0
P13459.0D	10/30/1911	10/30/1911	Cancelled	FRANK FEAR CATTLE CO.			LINCOLN CANAL	DOM_SW; IRR_	-	111W	05	SW1/4SW1/4	0	South Piney Creek			0	0	0
P13460.0D	10/30/1911	10/30/1911	Cancelled	FRANK FEAR CATTLE CO.			LINCOLN CANAL (SUPPLY)	DOM_SW; IRR_	-	111W	05	NW1/4SW1/4	0	Middle Piney Creek			0	0	0
P1362.0R	09/12/1908	09/12/1908	Cancelled			TAYLOR W. H.	MIDDLE PINEY LAKE RESERVO			115W	08	SE1/4NW1/4			9174.4		0	0	9174.4
P14181.0D	05/01/1916	05/01/1916	Cancelled		MARGARET R.	FISH	ROOSEVELT DITCH, SUPPLEME			112W	32	NE1/4SE1/4	0	West Meadow Canyo		13	0	0	0
P1426.0R	12/22/1908	12/22/1908	Cancelled				NNORTH PINEY LAKE RESERVOI		-	115W	20	SE1/4SW1/4		Lake Creek	1980		0	0	1980
P1427.0R	12/22/1908	12/22/1908	Cancelled			Cottonwood Developme		DOM_SW; IRR_	-	115W	24	NW1/4SE1/4		North Piney Creek	8880		0	0	8880
P14310.0D	05/04/1916	05/04/1916	Incomplete		CLATE	STACY	LAST CHANCE DITCH	IRR_SW	033N	113W	15	SW1/4NW1/4	39.76	Spring Creek		50	0	0	0
P14838.0S	02/16/2000	2/16/2000	Complete				ERIC STOCK RESERVOIR	STO	032N	114W	17	SW1/4SE1/4		Big Bull Draw	0.82		0	0.82	0.82
P14992.0D	02/19/1918	02/19/1918	Cancelled	COTTONWOOD DEVELOPMENT CO.			SOUTH DITCH	IRR_SW	031N	112W	32	NE1/4NE1/4	0	West Meadow Cany		21.7	0	0	0
P1530.0D	07/20/1897	07/20/1897	Complete		CHAS. F AND NELLIE	BALL	ISLAND DITCH		032N	111W	21	NE1/4SE1/4	4.68	Cottonwood Creek			0	0	0
P15465.0D	05/20/1919	05/20/1919	Complete		CHAS P.	BUDD	LAST CHANCE DITCH	IRR_SW	033N	113W	16	SE1/4NE1/4	50	Spring Creek		50	0	0	0
P15589.0D	09/22/1919	09/22/1919	Cancelled		MARK E.	RATHBUN	RATHBUN DITCH	IRR_SW	031N	114W	30	SW1/4NW1/4	0	North Piney Creek		6.301	0	0	0
P16255.0D	10/06/1921	10/06/1921	Cancelled	COTTONWOOD DEVELOPMENT CO.			SOUTH DITCH	IRR_SW	031N	112W	32	NE1/4NE1/4	0	West Meadow Canyo		21.7	0	0	0
P1626.0D	10/18/1897	10/18/1897	Complete		CHAS P	BUDD	BITTER ROOT DITCH	IRR_SW	030N	112W	36	NE1/4NW1/4	4.64	North Piney Creek			0	0	0
P1754.0R	01/14/1910	01/14/1910	Cancelled	PINEY LAKE IRRIGATION CO.			MIDDLE PINEY LAKE RESERVO	-	030N	115W	08	SE1/4NW1/4		Middle Piney Creek	11107.12		0	0	0
P1864.0E	12/14/1907	12/14/1907	Complete		JAMES G.	HARMISON	THE ENLARGEMENT OF SHEEP	-	031N	110W	21	SE1/4SE1/4	11.31	Green River			0	0	0
P19484.0D	12/12/1940	12/12/1940	Complete		JOHN AND SON	BUDD	JOE BUDD SUPPLY DITCH	RES	031N	112W	19	SE1/4NE1/4	0	West Meadow Canyo	116.05	23.31	0	0	0
P2273.0D	09/18/1899	09/18/1899	Complete		ABRAHAM M.	HILL	SHEEP'S DITCH	IRR_SW	031N	110W	21	SE1/4SE1/4	2.28	Green River			0	0	0
P2324.0D	10/14/1899	01/08/1900	Expired		ELI A.	VICKREY	PLANO DITCH	IRR_SW	031N	113W	26	SW1/4NW1/4	3.92	North Piney Creek			0	0	0
P24272.0D	12/13/1973	12/13/1973	Cancelled		CLARENCE	BRAWLEY	CABIN CREEK DITCH	IRR_SW	028N	114W	35	SW1/4NW1/4	0.23	Cabin Creek		7.75	0	0	0
P24273.0D	12/13/1973	12/13/1973	Cancelled		CLARENCE	BRAWLEY	BRAWLEY NO. 1 SPRING PIPEL		028N	114W	35	NE1/4NE1/4	0.06	Brawley No. 1 Spring		0.126	0	0	0
P24274.0D	12/13/1973	12/13/1973	Cancelled		CLARENCE	BRAWLEY	BRAWLEY NO. 2 SPRING PIPEL		028N	114W	35	NW1/4SE1/4	0.06	Brawley 2 Spring		0.126	0	0	0
P24275.0D	12/13/1973	12/13/1973	Cancelled		CLARENCE	BRAWLEY	BRAWLEY NO. 3 SPRING PIPEL		028N	114W	35	SW1/4SE1/4	0.06	Brawley No. 3 Spring		0.126	0	0	0
P2878.0R	07/12/1915	07/12/1915	Complete		AMOS	SMITH	1ST ENL SIXTY SEVEN RESERVO			112W	17	NE1/4NE1/4		North Piney Creek	4329		953.27	0	953.27
P30.0F	03/11/1991	03/11/1991	Complete				FISH CREEK INSTREAM FLOW		030N	115W	28	SE1/4NW1/4		Fish Creek			0	0	0
P32706.0D	11/01/2002	11/01/2002	Cancelled	ENCANA OIL & GAS (USA) INC			GRINDSTONE WATER HAUL	TEM	033N	110W	21	NE1/4NE1/4		Green River		1.22	0	0	0
P32888.0D	02/28/2001	2/28/2001	Complete				SEVEN MILE RIVER RANCH PIP			110W	31	SW1/4NW1/4	0.084	Green River	5.1	2.84	0	0	0
P32891.0D	10/27/2000	10/27/2000	Complete				J C DITCH	IRR_SW	032N	114W	23	SE1/4SW1/4		Beecher Creek		2.8	0	0	0
P33057.0D	01/16/2002	01/16/2002	Cancelled				ROOSEVELT DITCH	IRR_SW	031N	112W	32	NE1/4SE1/4	0	West Meadow Canyo		17.72	0	0	0
P33342.0D	03/10/2003	03/10/2003	Complete				SIOUX PIPELINE	FIS; FTH; RES; V		110W	17	SE1/4NE1/4	1.26	Sioux Draw	3.85	1.26	0	0	0
P33454.0D	03/20/2006	03/20/2006	Cancelled	CALPET, LLC			CALPET CELLS 7 AND 8 WATER		028N	113W	28	SW1/4NE1/4	0	Dry Piney Creek		0.31	0	0	0
P33455.0D	03/20/2006	03/20/2006	Cancelled	CALPET, LLC			CALPET CELL 6 WATER HAUL		028N	113W	21	SW1/4SW1/4	0	Pine Grove Creek		0.31	0	0	0
P33461.0D	03/23/2006	03/23/2006	Cancelled	TEPPCO JONAH GAS GATHERING COMPANY			BRIDGER - TO - OPAL 36" P/L V		027N	112W	31	NW1/4SE1/4	0	Green River		0.56	0	0	0
P33574.0D	09/14/2006	09/14/2006	Cancelled	MOUNTAIN STATES WATER SERVICE, INC.			QUESTAR GAS MANAGEMENT	TEM	027N	112W	31	NW1/4SE1/4		Green River		0.93	0	0	0
P33796.0D	08/27/2007	08/27/2007	Complete				JAMES CLEMENT/PUMP POIN	Т	026N	112W	06	SE1/4NE1/4	0.056	Green River		0.056	0	0	0
P3578.0R	09/04/1919	09/04/1919	Complete	USDA, NATIONAL FOREST SERVICE			MIDDLE PINEY RESERVOIR	IRR_SW; S&D	030N	115W	08	SE1/4NW1/4		Middle Piney Creek	4201		4201	0	4201
P3921.0E	07/06/1918	07/06/1918	Complete		HENRY L.	BUDD	BUDD ENLARGEMENT OF MUS	55	031N	113W	36	NW1/4NW1/4	1.95	North Piney Creek		30.32	0	0	0
P4022.0R	04/23/1926	04/23/1926	Expired		A	ZICHLSDORFF	DARBY RESERVOIR	DOM_SW; IND	\$027N	113W	34	SW1/4NE1/4		South Fork Birch Cre	29.6		29.6	0	29.6
P4084.0R	07/17/1920	07/17/1920	Cancelled		DAN	RATHBUN	NORTH PINEY RESERVOIR	IRR_SW	031N	115W	24	NW1/4SE1/4		North Piney Creek	3585		0	0	0
P4404.0R	01/16/1930	01/16/1930	Cancelled		HL	BUDD	NORTH PINEY RESERVOIR	DOM_SW; IRR_	S 031N	115W	24	NW1/4SE1/4		North Piney Creek	3582.65		0	0	0
P4493.0R	02/29/1932	02/29/1932	Cancelled	NORTH PINEY IRRIGATION DISTRICT			NORTH PINEY RESERVOIR	IRR_SW	031N	115W	24	NW1/4SE1/4		North Piney Creek	6846		0	0	0
P4572.0R	07/13/1934	07/13/1934	Expired	COTTONWOOD WATER USERS CO			COTTONWOOD NO. 1 RESERV	CDOM_SW; IRR_	S 032N	115W	16	SE1/4NW1/4		South Cottonwood C	1464.7		14647	0	14647
P5312.0R	07/27/1940	07/27/1940	Expired	USDI GRAZING SERVICE			DEER HILL RESERVOIR	STO	030N	113W	22	NE1/4NE1/4		Rollon Draw	21.01		0	21.01	21.01
P5316.0R	07/27/1940	07/27/1940	Expired	USDI GRAZING SERVICE			MICHELSON RESERVOIR	STO	031N	112W	10	NE1/4NE1/4		Cold Draw	19.54		0	19.54	19.54
P5317.0R	07/27/1940	07/27/1940	Expired	USDI GRAZING SERVICE			NORTH MARBLETON RESERVO	DI STO	031N	111W	32	SE1/4NE1/4		LaGrande Draw	17.21		0	17.21	17.21
P535.0R	07/08/1904	07/08/1904	Fully Adjudicated		A.W.	Smith	Sixty Seven Reservoir	IRR_SW	030N	112W	17	NE1/4NE1/4		North Piney Creek	3373.73		3373.73	0	3373.73
P5377.0R	11/19/1940	11/19/1940	Complete		JOHN AND SON	BUDD	JOE BUDD RESERVOIR	IRR_SW	031N	112W	20	SE1/4SW1/4		West Meadow Canyo	116.05		116.05	0	116.05
P5412.0R	03/05/1941	03/05/1941	Complete	E W MCNINCH ETAL			MCNINCH RESERVOIR NO. 2	DOM_SW; IRR_	S 030N	113W	11	SE1/4SE1/4		McNinch Draw	198		198	0	198
P5413.0R	03/05/1941	03/05/1941	Complete	E W MCNINCH ETAL			MCNINCH NO. 1 RESERVOIR	DOM_SW; IRR_	S 030N	113W	12	NW1/4SW1/4		Spring Creek (5-30-1	873		873	0	873
P5424.0R	02/25/1941	02/25/1941	Complete	BAR CROSS LAND AND LIVESTOCK CO			2ND ENL. SIXTY-SEVEN RESERV	/IRR_SW; STO	030N	112W	17	NE1/4NE1/4		Spring Creek (5-30-1	6087		884.42	0	5211.42
P5801.0R	07/17/1947	07/17/1947	Complete	E W AND LOIS C MCNINCH			ENL. MCNINCH NUMBER 1 RE	S DOM_SW; IRR_	S 030N	113W	12	NW1/4SW1/4		Beaver Creek	1085.35		213.35	0	1086.35
P5929.0R	06/06/1952	06/06/1952	Expired	JOHN C BUDD AND SON			BUDD NO. 1 RESERVOIR	IRR_SW; STO	030N	115W	22	NW1/4NE1/4		South Fork/Indian Cr			76.6	0	76.6
P6023.0R	04/13/1953	04/13/1953	Cancelled				SODA LAKE RESERVOIR	IRR_SW; STO	032N	115W	15	SW1/4NW1/4		Picnic Creek	368.76		0	0	0
P6329.0E	11/24/1969	11/24/1969	Complete		RIVES	HOLCOMBE	THE ENLARGEMENT OF Tarter		029N	112W	14	SE1/4SE1/4	1.69	Tartar Gulch Spring		14.66	0	0	0
P6371.0R	06/20/1956	06/20/1956	Complete		EW AND LOIS C	MCNINCH	1ST	IRR_SW; STO	030N	113W	12	SW1/4SW1/4			356.95		158.95	0	158.95
P6386.0E	04/07/1971	04/07/1971	Complete				THE ENLARGEMENT OF SHEEP	-	031N	110W	21	SE1/4SE1/4	11.54	Green River		52.91	0	0	0
P6702.0R	06/20/1961	06/20/1961	Cancelled		E W AND LOUIS C	MCNINCH	SECOND ENL. OF THE MCNING	_	030N	113W	12	NW1/4SW1/4		North Piney No. 2 Sp			0	0	0
P6703.0R	06/20/1961	06/20/1961	Cancelled		E W AND LOIS C	MCNINCH	SECOND ENL. OF THE MCNING	-	030N	113W	12	SW1/4SW1/4		McNinch Draw	556.19		0	0	0
P7468.0E	11/19/2001	11/19/2001	Complete	BUDD RANCHES INC.	CHAD	ESPENSCHEID	FIRST ENLARGEMENT OF JOE	31	031N	112W	18	SE1/4SW1/4	15.35	West Meadow Canyo	36.91	36.91	0	0	0
P7684.0D	03/20/1907	03/20/1907	Complete		JULIA	VICKREY	PEARL NO. 2 DITCH		033N	113W	11	SE1/4SW1/4	1.1	North Cottonwood C		-1	0	0	0
P7697.0S	04/16/1974	04/16/1974	Complete	USDI - BLM			VIBLE #203 STOCK RESERVOIR		033N	111W	24	SE1/4NW1/4		Vible Draw	2.75		0	2.75	2.75
P7893.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			CHIEF #312 STOCK RESERVOIR	l .	028N	113W	03	SW1/4SW1/4		Chief Draw	2		0	2	2
P7901.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			HIDDEN #319 STOCK RESERVC		032N	112W	19	NW1/4SW1/4		Bureau Draw	4		0	4	4
P7902.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			RYE GRASS #218 STOCK RESER		033N	112W	08	NE1/4NW1/4		Byodie Draw	1.51		0	1.51	1.51
P7903.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			RYE GRASS #219 STOCK RESER	NSTO	033N	113W	02	SW1/4SE1/4		Aspen Draw	0.37		0	0.37	0.37
P7906.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			SEEP #317 STOCK RESERVOIR		031N	114W	11	SW1/4SE1/4		Seep Draw	3		0	3	3
P7907.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			COYOTE #320 STOCK RESERVC		032N	112W	18	SW1/4SE1/4		Antelope Draw	1.86		0	1.86	1.86
P7908.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			DEERHILLS #205 STOCK RESER		030N	113W	06	SE1/4NW1/4		Deer Draw	1.52		0	1.52	1.52
P7909.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			DEERHILLS #206 STOCK RESER		030N	112W	30	SE1/4SE1/4		Buck Draw	1.52		0	1.52	1.52
P7912.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			GREEN RIVER #236 STOCK RES		034N	110W	29	SE1/4NE1/4		Green Draw	1.93		0	1.93	1.93
P7917.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			BRODIE DRAW #31 STOCK RES		034N	112W	31	SW1/4SE1/4		Aspen Draw	2		0	2	2
P7918.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			ANGEL #208 STOCK RESERVOI		030N	113W	25	SW1/4SW1/4		Angel Draw	1.93		0	1.93	1.93
P7920.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			BILLY'S CANYON #88 STOCK RI		031N	111W	30	NW1/4SW1/4		Billy's Draw	2		0	2	2
P7921.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			LITTLE DRAW #316 STOCK RES		031N	113W	06	NE1/4NW1/4		States Draw	4		0	4	4
P7922.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			ROCKY #318 STOCK RESERVOI		031N	113W	07	SW1/4SW1/4		Seep Draw	3		0	3	3
P7924.0S	09/03/1974	09/03/1974	Complete	BUREAU OF LAND MANAGEMENT			BILLY'S CANYON #87 STOCK RI		031N	111W	28	NW1/4NW1/4		Sandy Draw	2		0	2	2
P8020.0S	08/20/1975	08/20/1975	Complete		CHARLES FLOYD	SPENCER	RAINBOW STOCK RESERVOIR		031N	113W	25	NW1/4SE1/4		Spring Creek (6-30-1	0.7		0.64	0	0.64
P8228.0S	01/31/1977	01/31/1977	Complete		JAMES	THOMAS	THOMAS NO. 1 STOCK RESERV	(STO	033N	113W	25	NW1/4NW1/4		James Draw	19.45		19.45	0	19.45

North Cottonwood C			0	5.3	5.3	Reservoir
Price Draw	0.04		0.04	0	0.04	Reservoir
Mertensia Draw	0.11		0	0.11	0.11	Reservoir
Gilia Draw	0.1		0	0.1	0.1	Reservoir
Purshia Spring	0.11		0	0.11	0.11	Reservoir
Clara Draw	0.11		0	16.54	29.24	Reservoir
West Meadow Canyo			36.91	0	152.96	Reservoir
Spring Creek	15		0	15	152.50	Reservoir
1 0	1.16		1.16	0	1.16	
Sago Creek					4	Reservoir
Jewett Creek	4		4	0		Reservoir
North Piney Creek			0	0	0	Stream
South Piney Creek			0	0	0	Stream
Middle Piney Creek			0	0	0	Stream
Middle Piney Creek	9174.4		0	0	9174.4	Reservoir
West Meadow Canyo		13	0	0	0	Stream
Lake Creek	1980		0	0	1980	Reservoir
North Piney Creek	8880		0	0	8880	Reservoir
Spring Creek		50	0	0	0	Stream
Big Bull Draw	0.82		0	0.82	0.82	Reservoir
West Meadow Canyo		21.7	0	0	0	Stream
Cottonwood Creek			0	0	0	Stream
Spring Creek		50	0	0	0	Spring
North Piney Creek		6.301	0	0	0	Stream
West Meadow Cany		21.7	0	0	0	Stream
North Piney Creek			0	0	0	Stream
Middle Piney Creek	11107.12		0	0	0	Reservoir
Green River			0	0	0	Stream
West Meadow Canyo	116.05	23.31	0	0	0	Stream
Green River			0	0	0	Stream
North Piney Creek			0	0	0	Stream
Cabin Creek		7.75	0	0	0	Stream
Brawley No. 1 Spring		0.126	0	0	0	Spring
Brawley 2 Spring		0.126	0	0	0	Spring
, , , ,		0.126	0	0	0	· -
Brawley No. 3 Spring	4220	0.120				Spring
North Piney Creek	4329		953.27	0	953.27	Reservoir
Fish Creek			0	0	0	Stream
Green River		1.22	0	0	0	Stream
Green River	5.1	2.84	0	0	0	Stream
Beecher Creek		2.8	0	0	0	Stream
West Meadow Canyo		17.72	0	0	0	Stream
Sioux Draw	3.85	1.26	0	0	0	Stream
Dry Piney Creek		0.31	0	0	0	Stream
Pine Grove Creek		0.31	0	0	0	Stream
Green River		0.56	0	0	0	Stream
Green River		0.93	0	0	0	Stream
			0	0	0	
Green River	1201	0.056			-	Stream
Middle Piney Creek	4201		4201	0	4201	Reservoir
North Piney Creek		30.32	0	0	0	Stream
South Fork Birch Cre	29.6		29.6	0	29.6	Reservoir
North Piney Creek	3585		0	0	0	Reservoir
North Piney Creek	3582.65		0	0	0	Reservoir
North Piney Creek	6846		0	0	0	Reservoir
South Cottonwood C	1464.7		14647	0	14647	Reservoir
Rollon Draw	21.01		0	21.01	21.01	Reservoir
Cold Draw			0			
	19.54			19.54	19.54	Reservoir
LaGrande Draw	17.21		0	17.21	17.21	Reservoir
North Piney Creek	3373.73		3373.73	0	3373.73	Spring
West Meadow Canyo	116.05		116.05	0	116.05	Reservoir
McNinch Draw	198		198	0	198	Reservoir
Spring Creek (5-30-1	873		873	0	873	Reservoir
Spring Creek (5-30-1	6087		884.42	0	5211.42	Reservoir
Beaver Creek	1085.35		213.35	0	1086.35	Reservoir
South Fork/Indian Cr	76.6		76.6	0	76.6	Reservoir
Picnic Creek	368.76		0	0	0	Reservoir
Tartar Gulch Spring	300.70	14.66	0	0	0	Spring
	356.95	14.00	158.95	0		
McNinch Draw	300.95	F2 61			158.95	Reservoir
Green River		52.91	0	0	0	Stream
North Piney No. 2 Sp			0	0	0	Reservoir
McNinch Draw	556.19		0	0	0	Reservoir
West Meadow Canyo	36.91	36.91	0	0	0	Stream
		-1	0	0	0	Stream
North Cottonwood C			0	2.75	2.75	Reservoir
North Cottonwood C Vible Draw	2.75				2.75	Reservoir
Vible Draw			Ω	2		
Vible Draw Chief Draw	2		0	2		
Vible Draw Chief Draw Bureau Draw	2 4		0	4	4	Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw	2 4 1.51		0 0	4 1.51	4 1.51	Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw	2 4 1.51 0.37		0 0 0	4 1.51 0.37	4 1.51 0.37	Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw	2 4 1.51 0.37 3		0 0 0	4 1.51 0.37 3	4 1.51 0.37 3	Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw	2 4 1.51 0.37		0 0 0	4 1.51 0.37	4 1.51 0.37	Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw	2 4 1.51 0.37 3		0 0 0	4 1.51 0.37 3	4 1.51 0.37 3	Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw	2 4 1.51 0.37 3 1.86		0 0 0 0	4 1.51 0.37 3 1.86	4 1.51 0.37 3 1.86	Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw	2 4 1.51 0.37 3 1.86 1.52		0 0 0 0 0	4 1.51 0.37 3 1.86 1.52	4 1.51 0.37 3 1.86 1.52	Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Green Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.52 1.93		0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93	4 1.51 0.37 3 1.86 1.52 1.52 1.93	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Aspen Draw Deer Draw Deer Draw Green Draw Green Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2		0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Buck Draw Green Draw Aspen Draw Angel Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93		0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Buck Draw Green Draw Aspen Draw Billy's Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2		0 0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Aspen Draw Deer Draw Deer Draw Deer Draw Green Draw Aspen Draw Aspen Draw Billy's Draw States Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.52 1.93 2 1.93 2 4		0 0 0 0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Buck Draw Green Draw Aspen Draw Angel Draw Billy's Draw States Draw States Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 1.93 2 4 3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Buck Draw Green Draw Aspen Draw Billy's Draw States Draw Sates Draw Satey Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3 2 4 3 2		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3 2	4 1.51 0.37 3 1.86 1.52 1.93 2 1.93 2 4 3 2	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir
Vible Draw Chief Draw Bureau Draw Byodie Draw Aspen Draw Seep Draw Antelope Draw Deer Draw Buck Draw Green Draw Aspen Draw Angel Draw Billy's Draw States Draw States Draw	2 4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 1.93 2 4 3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3	4 1.51 0.37 3 1.86 1.52 1.52 1.93 2 1.93 2 4 3	Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir Reservoir

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42.72926	-110.429	External
42.49795	-110.424	External
42.49729	-110.414	External
42.50882	-110.409	External
42.80988	-110.266	External
42.65366	-110.216	External
42.79938	-110.444	External
42.7331	-110.009	External
42.72641	-110.024	External
42.54016	-110.115	External
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42.5234	-110.103	External
42.60281	-110.566	External
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42.65376	-110.207	External
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42.75453	-110.442	External
42.6356	-110.207	External
42.74028	-110.066	External
42.83282	-110.335	External
42.64661	-110.472	External
42.63555	-110.207	External
42.54644	-110.136	External
42.60339	-110.567	External
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42.66249	-110.223	External
42.64355	-109.951	External
42.64659	-110.276	External
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42.38467	-110.275	External
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42.27814	-110.198	External
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42.60338	-110.567	External
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42.65844	-110.484	External
42.65674	-110.484	External
42.76162	-110.544	External
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42.62702	-110.085	External
42.59161	-110.207	External
42.65366	-110.216	External
42.59623	-110.259	External
42.5993	-110.258	External
42.59069	-110.208	External
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42.5992	-110.258	External
42.59616	-110.259	External
42.66992	-110.237	External
42.8395	-110.304	External
42.81794	-110.049	External
42.43659		
42.74318		External
	-110.263	External External
	-110.263 -110.238	External
42.85021	-110.263 -110.238 -110.248	External External
42.85021 42.85358	-110.263 -110.238 -110.248 -110.3	External External External
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42.85021 42.85358 42.68057 42.75659 42.61588	-110.263 -110.238 -110.248 -110.3 -110.384 -110.23 -110.349	External External External External External External
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42.85021 42.85358 42.68057 42.75659 42.61588 42.55278 42.89144 42.86913 42.55295 42.64312 42.70343	-110.263 -110.238 -110.248 -110.344 -110.349 -110.223 -110 -110.263 -110.257 -110.112 -110.345	External External External External External External External External External External External External
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42.85021 42.85358 42.68057 42.75659 42.61588 42.55278 42.89144 42.86913 42.55295 42.64312 42.70343 42.68883 42.64601 42.64357	-110.263 -110.238 -110.238 -110.384 -110.334 -110.233 -110.263 -110.263 -110.257 -110.122 -110.345 -110.345 -110.341 -110.247	External External External External External External External External External External External External External External External External
42.85021 42.85358 42.68057 42.75659 42.61588 42.85278 42.89144 42.86913 42.55295 42.64312 42.70343 42.68883 42.64601	-110.263 -110.248 -110.248 -110.34 -110.349 -110.233 -110.263 -110.257 -110.125 -110.344 -110.344 -110.344 -110.341	External External External External External External External External External External External External External

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P8297.0S	04/11/1977	04/11/1977	Complete	BUREAU OF LAND MANAGEMENT			O'NEIL DITCH PIT 4469 STOCK F		029N	112W	14	SW1/4SE1/4	70.00	Tartar Gulch Spring	3.58
P8795.0D	12/22/1908	12/22/1908	Complete				COTTONWOOD CANAL	516 670	031N		02	NW1/4NE1/4	70.33	Cottonwood Creek	40.7
P9007.0R	01/26/1983	01/26/1983	Complete		RONALD AND DELORES			FIS; STO	033N		19	SE1/4SW1/4		Clara Draw	12.7
P9104.0D	04/02/1909	04/02/1909	Complete		WM. L.	SMITH	W.L. SMITH DITCH		032N		22	NE1/4SW1/4	3.53	Cottonwood Creek	
P9365.0S	04/03/1984	04/03/1984	Complete				DRY BASIN STOCK RESERVOIR	STO	028N		07	NE1/4SW1/4		Little Dry Basin Draw	
P9366.0S	04/03/1984	04/03/1984	Complete				CHIMNEY BUTTE PIT #4 STOCK		028N	112W	09	NE1/4NW1/4		Charlie Draw	2.5
P9373.0S	04/12/1984	04/12/1984	Complete				CLIFF STOCK RESERVOIR		029N		29	SE1/4NE1/4		Cliff Draw	4.9
P9375.0S	04/12/1984	04/12/1984	Complete				MCDONALD PIT #8 STOCK RESE		029N		33	SW1/4NW1/4		Sir Draw	2.5
P9376.0S	04/12/1984	04/12/1984	Complete				MOUNTAIN HOME STOCK RESE		029N		20	SW1/4NW1/4		Snake Draw	10.8
P9657.0S	11/15/1984	11/15/1984	Complete				MOLLY NIPPLE PIT STOCK RESE	l	027N		12	NW1/4NE1/4		Coyote Draw	2.5
P9658.0S	11/15/1984	11/15/1984	Complete				BUTTES' END PIT STOCK RESER		027N	112W	17	SW1/4NW1/4		LGH Draw	1.96
P975.0E	10/03/1902	10/03/1902	Complete		WILLIAM	SPENCER	SHEEP DITCH ENLARGEMENT C	IRR_SW	031N	110W	21	SE1/4SE1/4	3.88	Green River	
CR CC18/067	07/10/1902	07/10/1902	Fully Adjudicated		JOSEPH	MCCLINTOCK	ENL. MUNN DITCH	IRR_SW	033N	114W	35	SW1/4SW1/4	4.56	South Cottonwood C	÷
CR CC19/029	11/18/1903	11/18/1903	Fully Adjudicated		WILFORD	LUCE	ENL. OF SHEEP DITCH	IRR_SW	031N	110W	21	SE1/4SE1/4	4.45	Green River	
CR CC19/073	05/16/1902	05/16/1902	Fully Adjudicated		LEVI	LEHMER	ENL. LEVI DITCH	IRR_SW	029N	113W	12	SE1/4SE1/4	0.14	South Piney Creek	
CR CC19/074	07/22/1902	07/22/1902	Fully Adjudicated	HEIRS OF MARY PENCE, DECEASED			ENL. EX-PENCE DITCH	IRR_SW	029N	113W	09	NE1/4SW1/4	2.76	South Piney Creek	
CR CC19/078	05/24/1904	05/24/1904	Fully Adjudicated		JAMES	MICKELSON	ENL. GLOVER DITCH NO. 1	IRR_SW	029N	113W	07	NE1/4SE1/4	0.35	South Piney Creek	
CR CC19/079	05/24/1904	05/24/1904	Fully Adjudicated		CHARLES	ANDERSON	ENL. GLOVER DITCH NO. 1	IRR_SW	029N	113W	07	NE1/4SE1/4	0.42	South Piney Creek	
CR CC19/080	07/28/1904	07/28/1909	Fully Adjudicated		CHARLES	ANDERSON	ENL. GLOVER DITCH NO. 1	IRR_SW	029N	113W	07	NE1/4SE1/4	0.14	South Piney Creek	
CR CC19/098	05/10/1902	05/10/1902	Fully Adjudicated		MINNIE	BONE		IRR_SW	030N	112W	15	SE1/4SE1/4	2.28	North Piney Creek	
CR CC19/099	05/10/1902	05/10/1902	Fully Adjudicated		LOUIS	BEDIER		IRR_SW	030N	112W	15	SE1/4SE1/4	2.28	North Piney Creek	
CR CC19/100	05/16/1902	05/16/1902	Fully Adjudicated			NELSON	ENL. BENCH DITCH	IRR_SW	030N		04	SW1/4SW1/4	2.28	North Piney Creek	
CR CC20/001	05/17/1902	05/17/1902	Fully Adjudicated			BATTY	ENL. FLEMING DITCH	IRR_SW	031N		22	SW1/4NW1/4	1.85	North Piney Creek	
CR CC20/002	04/03/1903	04/03/1903	Fully Adjudicated		ADA	BAKER	ENL. OSTERHOUT-EDWARDS D	-	030N		09	NW1/4NW1/4	4.57	North Piney Creek	
CR CC20/003	07/01/1904	07/01/1904	Fully Adjudicated		FLOYD	SPRINGER	ENL. SUMMIT DITCH	IRR_SW	030N		10	NE1/4SW1/4	2.57	North Piney Creek	
CR CC20/003	06/10/1905	06/10/1905	Fully Adjudicated		LEWIS	TRAVIS		IRR_SW	030N		31	NE1/4SE1/4	0.5	North Piney Creek	
CR CC20/004	11/28/1902	11/28/1902	Fully Adjudicated		GEORGE	BOOKER	ENL. MUNN DITCH	IRR_SW	033N		35	SW1/4SW1/4	4.57	South Cottonwood C	c
CR CC20/071	07/10/1902	07/10/1902	Fully Adjudicated			WHITE	ENL. MUNN DITCH	IRR_SW	033N		35	SW1/4SW1/4	4.57	South Cottonwood C	
								-							
CR CC20/079	09/25/1902	09/25/1902	Fully Adjudicated			LARSEN	ENL. DIAMOND DITCH	IRR_SW	033N		33	NE1/4NE1/4	1.71	South Cottonwood C	
CR CC20/088	11/27/1903	11/27/1903	Fully Adjudicated			MORISON	ENL. OF SOAK HOLE DITCH	IRR_SW	033N		10	NW1/4NW1/4	2.05	Green River	
CR CC26/014	08/17/1906	08/17/1906	Fully Adjudicated		CHALMERS	HACKENBERG	ENL. ESSEX DITCH	IRR_SW	032N		11	SW1/4NE1/4	0.55	Cottonwood Creek	
CR CC26/416	12/28/1903	12/28/1903	Fully Adjudicated			DANIELS	ENL. MEADOW CANYON DITCH		031N		19	NE1/4SE1/4	1.71	North Piney Creek	
CR CC28/353	04/30/1903	04/30/1903	Fully Adjudicated		MATILDA	VICKREY	ENL. RAY DITCH	IRR_SW	032N		11	NE1/4NW1/4	3.65	South Cottonwood C	2
CR CC30/112	05/31/1904	05/31/1904	Fully Adjudicated		MARY	MURDOCK	ENL. OF SHEEP DITCH	IRR_SW	031N	110W	21	SE1/4SE1/4	4.4	Green River	
CR CC30/116	02/15/1906	02/15/1906	Fully Adjudicated		THOMAS	CLEMENTSEN	ENL. OF SOAK HOLE DITCH	IRR_SW	033N	110W	10	NW1/4NW1/4	1.62	Green River	
CR CC30/118	06/03/1907	06/03/1907	Fully Adjudicated		MUSETTA	HENNICK	ENL. OF ADA DITCH	IRR_SW	033N	110W	15	NW1/4SE1/4	0.88	Green River	
CR CC30/210	01/06/1906	01/06/1906	Fully Adjudicated		FRANK	BALL	ENL. ARDIE DITCH	IRR_SW	032N	111W	22	SW1/4SE1/4	0.88	Cottonwood Creek	
CR CC30/212	07/16/1908	07/16/1908	Fully Adjudicated		ADAM	WAISANEN	ENL. LENA DITCH	IRR_SW	033N	112W	32	SW1/4NW1/4	1.75	South Cottonwood C	2
CR CC30/223	08/19/1903	08/19/1903	Fully Adjudicated		W E	MILLS	ENL. NELSON DITCH	IRR_SW	031N	113W	36	SW1/4SE1/4	0.57	North Piney Creek	
CR CC30/224	08/19/1903	08/19/1903	Fully Adjudicated		ТJ	MILLS	ENL. NELSON DITCH	IRR_SW	031N	113W	36	SW1/4SE1/4	2.07	North Piney Creek	
CR CC30/225	06/24/1904	06/24/1904	Fully Adjudicated		J GILBERT	HAYDEN		IRR_SW	031N	113W	21	NE1/4NW1/4	2	North Piney Creek	
CR CC31/455	06/20/1900	06/20/1900	Fully Adjudicated		OSCAR	JOHNSON		IRR_SW	030N		28	NE1/4SW1/4	3.25	Green River	
CR CC31/460	12/14/1907	12/14/1907	Fully Adjudicated			HARMISON	ENL. OF SHEEP DITCH	IRR_SW	031N		21	SE1/4SE1/4	2.14	Green River	
CR CC34/328	11/17/1902	11/17/1902	Fully Adjudicated			LUMAN	ENL. SHEEP'S DITCH	IRR_SW	031N		21	SE1/4SE1/4	0.49	Green River	
CR CC34/334	06/30/1908	06/30/1908	Fully Adjudicated			LUMAN	ENL. OF HILL DITCH	IRR_SW	032N	110W	09	SW1/4SW1/4	2.97	Green River	
CR CC34/335	08/03/1908	08/03/1908	Fully Adjudicated			SOMMERS	ENL. OF SNYDER DITCH	IRR_SW	032N	110W	15	NW1/4SE1/4	3.24	Green River	
CR CC34/355 CR CC34/402							ENL. VALLEY DITCH	IRR_SW	032N		20		0.45	Cottonwood Creek	
	07/05/1910	07/05/1910	Fully Adjudicated			HAYDEN						NW1/4NE1/4			c
CR CC34/403	10/30/1903	10/30/1903	Fully Adjudicated			LINDBACK		IRR_SW	033N		19	NE1/4NW1/4	0.64	North Cottonwood C	
CR CC36/298	12/14/1907	12/14/1907	Fully Adjudicated			TANNER	ENL. OF SHEEP DITCH	IRR_SW	031N		21	SE1/4SE1/4	4.17	Green River	
CR CC36/300	06/30/1908	06/30/1908	Fully Adjudicated			LUMAN	ENL. OF HILL DITCH	DOM_SW; IRR_S		110W	09	SW1/4SW1/4	0.93	Green River	
CR CC36/397	04/24/1902	04/24/1902	Fully Adjudicated			O'NEIL		DOM_SW; IRR_S		111W	05	SW1/4SW1/4	3.36	South Piney Creek	
CR CC36/402	08/21/1909	08/21/1909	Fully Adjudicated			BUDD		IRR_SW	030N		34	NW1/4NE1/4	0.99	Fish Creek	
CR CC36/416	06/13/1913	06/13/1913	Fully Adjudicated			HAYDEN		DOM_SW; IRR_S			21	NE1/4SE1/4	0.63	Cottonwood Creek	
CR CC36/421	11/13/1913	11/13/1913	Fully Adjudicated		JOHN	ABRAMSON	ENL. DIAMOND DITCH		033N		31	SW1/4NW1/4	1.14	South Cottonwood C	
CR CC36/422	01/31/1914	01/31/1914	Fully Adjudicated		STELLA	MCKAY	ENL. MCKAY DITCH	IRR_SW	033N		32	NW1/4SW1/4	1.13	South Cottonwood C	2
CR CC38/148	11/12/1914	11/12/1914	Fully Adjudicated		ТD	O'NEIL	ENL. CLAUNCH (MERCER) DITC	IRR_SW	033N	112W	36	SE1/4SW1/4	1.7	Cottonwood Creek	
CR CC38/149	11/12/1914	11/12/1914	Fully Adjudicated			CARLIN	ENL. CLAUNCH (MERCER) DITC	IRR_SW	033N		36	SE1/4SW1/4	0.61	Cottonwood Creek	
CR CC38/156	11/29/1913	11/29/1913	Fully Adjudicated		GUST	LARSON	ENL. GUST DITCH	IRR_SW	033N	112W	32	NW1/4SW1/4	0.54	South Cottonwood C	2
CR CC38/159	07/19/1912	07/19/1912	Fully Adjudicated		JAMES	MICKELSON	ENL. BURRALL DITCH	IRR_SW	032N		10	NE1/4NE1/4	0.57	South Cottonwood C	
CR CC38/160	07/19/1912	07/19/1912	Fully Adjudicated		WILFORD	NICHOLS	ENL. BURRALL DITCH	IRR_SW	032N	114W	10	NE1/4NE1/4	1.89	South Cottonwood C	
CR CC38/161	10/10/1913	10/10/1913	Fully Adjudicated		PAUL	SAXON	ENL. RAY DITCH	IRR_SW	032N	114W	11	NE1/4NW1/4	0.57	South Cottonwood C	÷
CR CC38/173	09/10/1913	09/10/1913	Fully Adjudicated		FLORENCE	MCDONALD	ENL. OF PHARES DITCH	IRR_SW	030N	111W	20	SE1/4SW1/4	1.6	Meadow Canyon Cre	é
CR CC38/175	11/14/1913	11/14/1913	Fully Adjudicated		DELLA	MCDONALD	ENL. OF PHARES DITCH	-	030N		20	SE1/4SW1/4	2.63	Meadow Canyon Cre	ê
CR CC38/177	01/13/1915	01/13/1915	Fully Adjudicated		JENNIE	BUDD	ENL. AURORA DITCH	IRR_SW	030N		28	NE1/4SW1/4	0.26	Fish Creek	
CR CC38/178	01/13/1915	01/13/1915	Fully Adjudicated		JENNIE	BUDD	ENL. AJAX DITCH	IRR_SW	030N	114W	34	SW1/4NE1/4	0.31	Fish Creek	
CR CC38/181	08/28/1914	08/28/1914	Fully Adjudicated		TD	O'NEIL	ENL. MERRILL DITCH	IRR_SW	029N	111W	05	SW1/4SW1/4	0.6	South Piney Creek	
CR CC38/184	06/23/1913	06/23/1913	Fully Adjudicated		ED	JOHNSON	ENL. OF BARR DITCH	IRR_SW	032N	113W	15	SE1/4NW1/4	1.93	Muddy Creek (4-29-:	:
CR CC38/287	12/14/1907	12/14/1907	Fully Adjudicated		WW	LUCE	ENL. OF SHEEP DITCH	IRR_SW	031N	110W	21	SE1/4SE1/4	1.4	Green River	
CR CC39/261	02/23/1916	02/23/1916	Fully Adjudicated		GLENNA	MILLS	ENL. MCLEAN DITCH	IRR_SW	030N	114W	24	NW1/4SE1/4	0.23	Middle Piney Creek	
CR CC40/268	11/23/1916	11/23/1916	Fully Adjudicated		CLIFTON	FEAR	ENL. REARDON DITCH	IRR_SW	029N	112W	10	NW1/4SW1/4	2.13	South Piney Creek	
CR CC40/305	07/08/1911	07/08/1911	Fully Adjudicated		GEORGE	HILEMAN	OVERLAND DITCH	DOM_SW; IRR_S	5031N	110W	08	SE1/4SE1/4	1.66	Green River	
CR CC41/055	01/27/1917	01/27/1917	Fully Adjudicated		DAN	BUDD	ENL. MEADOW CANYON DITCH	IRR_SW	031N	113W	19	NE1/4SE1/4	1.15	North Piney Creek	
CR CC41/056	01/27/1917	01/27/1917	Fully Adjudicated		DAN	BUDD	ENL. MEADOW CANYON DITCH	IRR_SW	031N	113W	19	NE1/4SE1/4	1.04	North Piney Creek	
CR CC41/405	02/06/1917	02/06/1917	Fully Adjudicated			MOFFATT	ENL. MEADOW CANYON DITCH	-	031N		19	NE1/4SE1/4	0.5	North Piney Creek	
CR CC41/406	11/22/1919	11/22/1919	Fully Adjudicated		ADDISON	MOFFAT	ENL. GILBERT DITCH		031N		22	NE1/4SE1/4	1.91	North Piney Creek	
CR CC41/407	07/06/1918	07/06/1918	Fully Adjudicated		HENRY	BUDD		IRR_SW	031N	113W	26	SW1/4SE1/4	1.95	North Piney Creek	
CR CC41/409	08/11/1915	08/11/1915	Fully Adjudicated		JAMES	MICKELSON	ENL. BOOKER DITCH NO. 2		033N		33	SW1/4SE1/4	2.55	South Cottonwood C	2
CR CC42/410	05/27/1908	05/27/1908	Fully Adjudicated		NETTIE	BRODIE	ENL. LAST CHANCE DITCH		033N		19	NE1/4NW1/4	0.57	North Cottonwood C	
CR CC42/411	01/05/1916	01/05/1916	Fully Adjudicated			JEWETT	ENL. BRYAN DITCH	DOM_SW; IRR_S			22	SW1/4SE1/4	0.16	Cottonwood Creek	
CR CC42/415	02/06/1917	02/06/1917	Fully Adjudicated		FRANCES	MOFFATT	ENL. MEADOW CANYON DITCH		031N		19	NE1/4SE1/4	1.81	North Piney Creek	
CR CC42/415	10/11/1916	10/11/1916	Fully Adjudicated		CP	NOBLE		IRR_SW	029N	113W	09	NE1/43E1/4	2.58	Middle Piney Creek	
CR CC42/416 CR CC43/144	05/02/1901	05/02/1901	Fully Adjudicated		CHARLES	BUDD	ENL. REDAN DITCH	IRR_SW	029N 030N		32	SW1/4NW1/4	2.36	Middle Piney Creek	
CR CC43/144	05/02/1901	05/02/1901	Fully Adjudicated			BUDD		IRR_SW	030N		32	SW1/4NW1/4	2.43	Middle Piney Creek	
CR CC43/691	07/05/1922	07/05/1922	Fully Adjudicated		ED	JOHNSON	ENL. OF BARR DITCH	IRR_SW	032N		15	SE1/4NW1/4	0.88	Muddy Creek (4-29-:	
CR CC43/691 CR CC43/698	08/20/1922	07/05/1922 08/20/1918				CHRISMAN		IRR_SW	032N 031N		21	NE1/4NW1/4	0.56		•
CR CC43/698 CR CC43/700			Fully Adjudicated		EMMA		ENL. RED BLUFF CANAL	IRR_SW IRR_SW	031N 028N				2.74	North Piney Creek	
	09/17/1918	09/17/1918	Fully Adjudicated			BAILEY	ENL. BAILEY DITCH	-			11	SE1/4SW1/4		Dry Piney Creek	~
CR CC43/705	03/17/1919	03/17/1919	Fully Adjudicated		OZCAR	KOSOLA	ENL. SURRITT DITCH NO. 1	IRR_SW	033N		35	NE1/4SW1/4	1.84	South Cottonwood C	
CR CC44/411	04/02/1919	04/02/1919	Fully Adjudicated			MOFFAT	ENL. MEADOW CANYON DITCH	-	031N		19	NE1/4SE1/4	1.4	North Piney Creek	c
CR CC44/413	03/17/1919	03/17/1919	Fully Adjudicated		GABRIEL	HUHTA	ENL. SURRITT DITCH NO. 1	IRR_SW	033N	113W	35	NE1/4SW1/4	1.84	South Cottonwood C	

Tartar Gulch Spring Cottonwood Creek Clara Draw	3.58	-1	0	3.58 0	3.58 0	Reservoir Stream		42.70147	-110.152	Ext Ext
	12.7		12.4	0	12.7	Reservoir		42.81006	-110.264	Ex
Cottonwood Creek			0	0	0	Stream		42.73777	-110.06	Ex
Little Dry Basin Draw	8.1		0	0.81	0.81	Reservoir		42.42069	-110.2	Ex
Charlie Draw	2.5		0	2.5	2.5	Reservoir		42.42854	-110.162	Ex
Cliff Draw	4.9		0	4.9	4.9	Reservoir		42.4713	-110.204	Ex
Sir Draw	2.5		0	2.5	2.5	Reservoir		42.45905	-110.2	Ex
Snake Draw	10.8		0	10.8	10.8	Reservoir		42.48682	-110.336	Ex
Coyote Draw	2.5		0	2.5	2.5	Reservoir		42.34709	-110.215	Ex
LGH Draw	1.96		0	1.96	1.96	Reservoir		42.32335	-110.187	Ex
Green River			0	0	0	Stream		42.64355	-109.951	Ex
South Cottonwood C			0	0	0	Stream	Original	42.78108	-110.428	Ex
Green River			0	0	0	Stream	Original	42.64354	-109.951	Ex
			0	0	0		Original	42.50809		
South Piney Creek						Stream	0		-110.241	Ex
South Piney Creek			0	0	0	Stream	Original	42.51117	-110.311	Ex
South Piney Creek			0	0	0	Stream		42.51334	-110.341	Ex
South Piney Creek			0	0	0	Stream		42.51334	-110.341	Ex
South Piney Creek			0	0	0	Stream		42.51334	-110.341	Ex
				0	0		Original			
North Piney Creek			0			Stream	Original	42.58148	-110.165	Ex
North Piney Creek			0	0	0	Stream	Original	42.58148	-110.165	Ex
North Piney Creek			0	0	0	Stream	Original	42.60922	-110.202	Ex
North Piney Creek			0	0	0	Stream		42.65935	-110.294	Ex
North Piney Creek			0	0	0	Stream		42.60791	-110.2	Ex
North Piney Creek			0	0	0	Stream		42.59688	-110.178	Ex
North Piney Creek			0	0	0	Stream		42.53962	-110.106	Ex
South Cottonwood C			0	0	0	Stream	Original	42.78108	-110.428	Ex
South Cottonwood C			0	0	0	Stream	Original	42.78111		Ex
							2.15mm			
South Cottonwood C			0	0	0	Stream		42.79111		Ex
Green River			0	0	0	Stream	Original	42.85181	-109.979	Ex
Cottonwood Creek			0	0	0	Stream	Original	42.77604	-110.154	Ex
North Piney Creek			0	0	0	Stream	Original	42.65649	-110.341	Ex
South Cottonwood C			0	0	0	Stream	2.15mm	42.77813	-110.341	Ex
Green River			0	0	0	Stream	Original	42.64354	-109.951	Ex
Green River			0	0	0	Stream	Original	42.85181	-109.979	Ex
Green River			0	0	0	Stream	Original	42.82694	-109.966	Ex
Cottonwood Creek			0	0	0	Stream	Original	42.73417	-110.054	Ex
							Original			
South Cottonwood C			0	0	0	Stream		42.78772	-110.25	Ex
North Piney Creek			0	0	0	Stream		42.62583	-110.249	Ex
North Piney Creek			0	0	0	Stream		42.62583	-110.249	Ex
North Piney Creek			0	0	0	Stream		42.66256	-110.311	Ex
Green River			0	0	0	Stream		42.54767	-109.962	Ex
Green River			0	0	0	Stream	Original	42.64356	-109.951	Ex
Green River			0	0	0	Stream	Original	42.64354	-109.951	Ex
Green River			0	0	0		- · · 8····-·		-109.965	Ex
						Stream		42.76059		
Green River			0	0	0	Stream	Original	42.82696	-109.966	Ex
Cottonwood Creek			0	0	0	Stream	Original	42.74751	-110.092	Ex
North Cottonwood C			0	0	0	Stream		42.82134	-110.264	Ex
Green River			0	0	0	Stream	Original		-109.951	Ex
							Unginal			
Green River			0	0	0	Stream		42.76061	-109.965	Ex
South Piney Creek			0	0	0	Stream	Original	42.52136	-110.104	Ex
Fish Creek			0	0	0	Stream		42.54583	-110.404	Ex
Cottonwood Creek			0	0	0	Stream	Original	42.74058	-110.066	Ex
							onginar			
South Cottonwood C			0	0	0	Stream		42.78816		Ex
South Cottonwood C			0	0	0	Stream		42.78442	-110.251	Ex
Cottonwood Creek			0	0	0	Stream		42.78082	-110.167	Ex
Cottonwood Creek			0	0	0	Stream		42.78084	-110.167	Ex
							Original			
South Cottonwood C			0	0	0	Stream	Original	42.78443	-110.251	Ex
South Cottonwood C			0	0	0	Stream		42.77839	-110.4	Ex
South Cottonwood C			0	0	0	Stream		42.77836	-110.4	Ex
South Cottonwood C			0	0	0	Stream			-110.392	Ex
							Original			
Meadow Canyon Cre			0	0	0	Stream	Original	42.56414	-110.097	Ex
Meadow Canyon Cre			0	0	0	Stream	Original	42.56414	-110.097	Ex
Fish Creek			0	0	0	Stream		42.55587	-110.43	Ex
Fish Creek			0	0	0	Stream		42.54503	-110.405	Ex
South Piney Creek			0	0	0		Original			
,						Stream	Original		-110.104	Ex
Muddy Creek (4-29-:			0	0	0	Stream		42.7632	-110.291	Ex
Green River			0	0	0	Stream	Original	42.64354	-109.951	Ex
Middle Piney Creek			0	0	0	Stream	-	42.5683	-110.366	Ex
,			0	0	0		Original			
South Piney Creek						Stream	Original	42.51336	-110.181	Ex
Green River			0	0	0	Stream	Original	42.67321		Ex
North Piney Creek			0	0	0	Stream	Original	42.65649	-110.341	Ex
North Piney Creek			0	0	0	Stream	Original	42.65649	-110.341	Ex
North Piney Creek			0	0	0	Stream	Original		-110.341	Ex
North Piney Creek			0	0	0	Stream		42.65516	-110.397	Ex
North Piney Creek			0	0	0	Stream	Original	42.63962	-110.265	Ex
South Cottonwood C			0	0	0	Stream	<b>.</b> .	42.782	-110.458	Ex
North Cottonwood C			0	0	0	Stream		42.82139	-110.264	Ex
Cottonwood Creek			0	0	0	Stream	Original	42.7343	-110.053	Ex
North Piney Creek			0	0	0	Stream	Original	42.65649	-110.341	Ex
			0	0	0	Stream	Original	42.52149	-110.313	Ex
Middle Piney Crook							Suginar			
Middle Piney Creek			0	0	0	Stream		42.54498	-110.335	Ex
Middle Piney Creek			0	0	0	Stream		42.54498	-110.335	Ex
			0	0	0	Stream		42.7632	-110.291	Ex
Middle Piney Creek Middle Piney Creek			0							
Middle Piney Creek Middle Piney Creek Muddy Creek (4-29-:					0	Stream	Original	17 66211	-110 200	Fv
Middle Piney Creek Middle Piney Creek Muddy Creek (4-29-: North Piney Creek			0	0	0	Stream	Original	42.66341		Ex
Middle Piney Creek Middle Piney Creek Muddy Creek (4-29-: North Piney Creek Dry Piney Creek			0 0	0 0	0	Stream	Original	42.41757	-110.121	Ex
Middle Piney Creek Middle Piney Creek Muddy Creek (4-29-: North Piney Creek			0	0				42.41757		Ex
Middle Piney Creek Middle Piney Creek Muddy Creek (4-29-: North Piney Creek Dry Piney Creek			0 0	0 0	0	Stream	Original	42.41757	-110.121 -110.303	Ex Ex Ex Ex

CR CC46/141 CR CC47/049														
CB CC47/049	05/17/1902	05/17/1902	Fully Adjudicated		CHARLES LESLIE	OTT	ENL. FLEMING DITCH	IRR_SW	031N	113W	22	SW1/4NW1/4	2.06	North Piney Creek
0.10047/043	12/13/1913	12/13/1913	Fully Adjudicated		FRANK	CHAPEL	ENL. ALBOUT DITCH ACT SPEND	IRR_SW	031N	110W	18	SW1/4NE1/4	1.59	Cottonwood Creek
CR CC47/052	07/15/1901	07/15/1901	Fully Adjudicated		FRANK	BALL	DIAMOND DITCH	IRR_SW	033N	112W	31	SW1/4NW1/4	2.28	South Cottonwood C
CR CC47/205	01/22/1930	01/22/1930	Fully Adjudicated		JOHN	BUDD	JOHN BUDD DITCH	IRR_SW; OTH	031N	112W	20	SW1/4NW1/4		West Meadow Canyo
CR CC47/249	04/19/1930	04/19/1930	Fully Adjudicated		WILLIAM	MOFFATT	ENL. MEADOW CANYON DITCH		031N	113W	19	NE1/4SE1/4	1.31	North Piney Creek
CR CC05/092	06/04/1904	06/04/1904	Fully Adjudicated		СН	FREDELL	ENL. FREDELL DITCH	IRR_SW	033N	114W	35	SW1/4SE1/4	4.57	South Cottonwood C
CR CC05/092	03/14/1898	03/14/1898	Fully Adjudicated		JAMES AND ORVILLA B	ALEXANDER		IRR_SW	032N	111W	20	NW1/4NE1/4	3.9	Cottonwood Creek
CR CC52/263	07/27/1932	07/27/1932	Fully Adjudicated		ELVA	MARINCIC		IRR_SW	030N	111W	20	SE1/4SW1/4	1.29	Meadow Canyon Cre
								-					1.29	
CR CC52/264	09/29/1932	09/29/1932	Fully Adjudicated		ELVA	MARINCIC		IRR_SW	030N	111W	20	NW1/4SE1/4		Muddy Creek (4-29-:
CR CC56/179	01/28/1935	01/28/1935	Fully Adjudicated		ALEXANDER	PRICE		IRR_SW; S&D	033N	110W	34	NE1/4SW1/4	1.81	Green River
CR CC57/371	06/30/1908	06/30/1908	Fully Adjudicated		ROBERT	LUMAN		IRR_SW	032N	110W	09	SW1/4SW1/4	0.69	Green River
CR CC57/372	06/30/1908	06/30/1908	Fully Adjudicated		KENNETH	LUMAN	ENL. OF HILL DITCH	IRR_SW	032N	110W	09	SW1/4SW1/4	0.8	Green River
CR CC57/440	07/08/1904	07/08/1904	Fully Adjudicated		EW	MCNINCH	ENL. OF HUGHES DITCH	IRR_SW	031N	113W	26	SE1/4SW1/4	2.27	Water Stored in 67 R
CR CC58/146	02/20/1930	02/20/1930	Fully Adjudicated		WILLIAM	MOFFAT	ENL. MEADOW CANYON DITCH	IRR_SW	031N	113W	19	NE1/4SE1/4	0.83	North Piney Creek
CR CC58/147	06/15/1932	06/15/1932	Fully Adjudicated	FRANCES MOFFAT ESTATE			ENL. OF MEADOW CANYON DIT	IRR_SW	031N	113W	19	NE1/4SE1/4	0.14	North Piney Creek
CR CC58/148	06/15/1932	06/15/1932	Fully Adjudicated		ADDISON	MOFFAT	ENL. OF MEADOW CANYON DIT	IRR SW	031N	113W	19	NE1/4SE1/4	2.36	North Piney Creek
CR CC58/342	11/14/1913	11/14/1913	Fully Adjudicated		ELVA	MARINCIC	ENL. OF PHARES DITCH	IRR_SW	030N	111W	20	SE1/4SW1/4	0.57	Meadow Canyon Cre
CR CC06/007	11/19/1897	11/19/1897	Fully Adjudicated		A	SMITH		IRR SW	030N	112W	10	NE1/4SW1/4	2.84	North Piney Creek
CR CC06/011	12/01/1898	12/01/1898	Fully Adjudicated		AW	SMITH	ENL. HUGHES IRRIGATION DITO	-	031N	113W	26	SE1/4SW1/4	4.84	North Piney Creek
CR CC06/023	10/12/1899	10/12/1899	Fully Adjudicated		FRED	REARDON		IRR_SW	029N	112W	10	NW1/4SW1/4	9	South Piney Creek
CR CC63/215	11/19/1902	11/19/1902	Fully Adjudicated		ROBERT	SPRINGMAN		IRR_SW	030N	112W	25	NE1/4NE1/4	0.5	Middle Piney Creek
				LINUTED STATES OF AMERICA FOREST SERVICE	NOBENT	3F KINGIWIAN		-		114W	03		0.005	
CR CC63/294	06/20/1941	06/20/1941	Fully Adjudicated	UNITED STATES OF AMERICA, FOREST SERVICE	C D	ONEU	MIDDLE PINEY SUMMER HOME	-	030N			SE1/4NE1/4		Frank Burney Spring
CR CC63/399	03/07/1906	03/07/1906	Fully Adjudicated		CR	O'NEIL		IRR_SW	033N	112W	33	NE1/4NE1/4	1.93	South Cottonwood C
CR CC63/425	05/16/1902	05/16/1902	Fully Adjudicated		CHARLES	NOBLE		IRR_SW	029N	113W	14	NW1/4NW1/4	0.19	South Piney Creek
CR CC63/459	02/18/1898	02/18/1898	Fully Adjudicated		SADIE	OSTERHOUT	ENL. F W ARMSTRONG DITCH (	-	030N	112W	15	SE1/4SE1/4	4.68	North Piney Creek
CR CC64/038	05/12/1904	05/12/1904	Fully Adjudicated		ALBERT E AND MAY K	SCHWABACHER		IRR_SW	034N	110W	31	SE1/4NE1/4	0.49	Green River
CR CC64/056	03/30/1953	03/30/1953	Fully Adjudicated		DAN	BUDD		IRR_SW	030N	113W	32	SW1/4NW1/4	2.21	Middle Piney Creek
CR CC64/057	04/17/1953	04/17/1953	Fully Adjudicated		ROBERT	SPRINGMAN	ENL. GLENNA MILLS DITCH	IRR_SW	030N	114W	24	SW1/4SE1/4	0.43	Middle Piney Creek
CR CC64/067	04/13/1942	04/13/1942	Fully Adjudicated		E W AND LOIS C	MCNINCH	ENL. OF MCNINCH SUPPLY DITO	RES	030N	113W	02	NW1/4NE1/4		Beaver Creek
CR CC64/072	12/06/1954	12/06/1954	Fully Adjudicated		C R	O'NEIL	ENL. ESSEX DITCH	IRR_SW; STO	032N	112W	11	SW1/4NE1/4	3.64	Cottonwood Creek
CR CC64/073	12/06/1954	12/06/1954	Fully Adjudicated		CR	O'NEIL	ENL. HOPE DITCH	IRR SW; STO	033N	112W	35	SW1/4NW1/4	3.47	South Cottonwood C
CR CC64/074	12/06/1954	12/06/1954	Fully Adjudicated		CR	O'NEIL	ENL. HOPE DITCH	IRR SW; STO	033N	112W	35	SW1/4NW1/4	0.7	South Cottonwood C
CR CC64/195	10/02/1908	10/02/1908	Fully Adjudicated		DAN	BUDD		IRR_SW	030N	113W	29	SE1/4SW1/4	1.86	Spring Creek (10-29-
CR CC64/246	02/23/1956	02/23/1956			GLYNDON H AND PAUL		ENL. EX-PENCE DITCH	-	029N	113W	09	NE1/4SW1/4	1.13	
			Fully Adjudicated	DAD CROSS LAND AND LIVESTOCK COMPANY	GLTNDON H AND PAUL	LOPENCE	ENL. OF SPRING CREEK DIVERSI	IRR_SW; STO					0.19	South Piney Creek
CR CC64/251	07/13/1954	07/13/1954	Fully Adjudicated	BAR CROSS LAND AND LIVESTOCK COMPANY					030N	113W	01	NE1/4SW1/4		Spring Creek (5-30-1
CR CC64/258	12/06/1954	12/06/1954	Fully Adjudicated		CR	O'NEIL		IRR_SW; STO	032N	112W	11	SW1/4NE1/4	0.61	Cottonwood Creek
CR CC64/259	12/06/1954	12/06/1954	Fully Adjudicated		C R	O'NEIL		IRR_SW; STO	033N	112W	35	SW1/4NW1/4	0.81	South Cottonwood C
CR CC64/391	03/30/1953	03/30/1953	Fully Adjudicated		DAN	BUDD		IRR_SW	030N	113W	32	SW1/4NW1/4	0.33	Middle Piney Creek
CR CC64/392	12/07/1953	12/07/1953	Fully Adjudicated		DAN	BUDD	ENL. REDAU DITCH	IRR_SW	030N	113W	32	SW1/4NW1/4	1.23	Middle Piney Creek
CR CC64/397	06/20/1956	06/20/1956	Fully Adjudicated		E W AND LOIS C	MCNINCH	ENL. OF MCNINCH SUPPLY DITO	RES	031N	113W	35	SW1/4SE1/4		Spring Creek (5-30-1
CR CC65/080	06/20/1955	06/20/1955	Fully Adjudicated		JOSEPHINE	GUIO	ENL. OF BUDD NO. 1 DITCH	IRR_SW	030N	112W	36	NW1/4NW1/4		North Piney Creek
CR CC65/125	12/06/1954	12/06/1954	Fully Adjudicated		C R	O'NEIL	ENL. ESSEX DITCH	IRR_SW	032N	112W	11	SW1/4NE1/4	0.33	Cottonwood Creek
CR CC65/126	12/06/1954	12/06/1954	Fully Adjudicated		CR	O'NEIL	ENL. HOPE DITCH	IRR_SW; STO	033N	112W	35	SW1/4NW1/4	2.06	South Cottonwood C
CR CC65/142	02/27/1901	02/27/1901	Fully Adjudicated		FRANK AND SUE	BALL		IRR_SW	030N	112W	25	NW1/4SW1/4	4.95	West Meadow Canyo
CR CC65/285	12/18/1896	12/18/1896	Fully Adjudicated		PHILIP	MARINCIC		IRR_SW	031N	110W	34	SE1/4SW1/4	7.8	Green River
CR CC65/310	05/11/1954	05/11/1954	Fully Adjudicated		WILLIAM	MILLEG		IRR_SW	029N	113W	18	NE1/4SE1/4	0.31	Beaver Creek
CR CC65/313	12/06/1954	12/06/1954	Fully Adjudicated		BERT	REINOW		IRR_SW; STO	032N	112W	11	SW1/4NE1/4	0.71	Cottonwood Creek
CR CC65/366	04/17/1953	04/17/1953			ROBERT	SPRINGMAN		IRR_SW, STO	032N	112VV 114W	24	SW1/4NE1/4 SW1/4SE1/4	0.2	
			Fully Adjudicated					-						Middle Piney Creek
CR CC65/370	11/12/1957	11/12/1957	Fully Adjudicated		PEARL	SPENCER	ENL. OF SPENCER DITCH	IRR_SW; STO	031N	113W	23	NE1/4SE1/4	1.86	Fleming Slough
CR CC65/409														
	07/13/1954	07/13/1954	Fully Adjudicated		JOHN	KVENILD	ENL. OF SPRING CREEK DIVERSI	IRR_SW	030N	113W	01	NE1/4SW1/4	1.76	Spring Creek (5-30-1
CR CC65/410	03/02/1959	07/13/1954 03/02/1959					ENL. OF SPRING CREEK DIVERSI		030N 031N	113W	36	NE1/4SW1/4 NE1/4NE1/4	1.76 1.26	
			Fully Adjudicated		JOHN	KVENILD	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH	IRR_SW						Spring Creek (5-30-1
CR CC65/410	03/02/1959	03/02/1959	Fully Adjudicated Fully Adjudicated		JOHN CLAUDE	KVENILD BERRONG	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH	IRR_SW IRR_SW	031N	113W	36	NE1/4NE1/4	1.26	Spring Creek (5-30-1 Spring Creek (6-30-1
CR CC65/410 CR CC65/490	03/02/1959 03/09/1959	03/02/1959 03/09/1959	Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA	KVENILD BERRONG BUDD	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH	IRR_SW IRR_SW IRR_SW	031N 031N	113W 113W	36 26	NE1/4NE1/4 SW1/4SE1/4	1.26 2.45	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek
CR CC65/410 CR CC65/490 CR CC65/491	03/02/1959 03/09/1959 03/02/1959	03/02/1959 03/09/1959 03/02/1959	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA	KVENILD BERRONG BUDD	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH	IRR_SW IRR_SW IRR_SW IRR_SW	031N 031N 031N	113W 113W 113W	36 26 36	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4	1.26 2.45 0.31	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496	03/02/1959 03/09/1959 03/02/1959 01/10/1949	03/02/1959 03/09/1959 03/02/1959 01/10/1949	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA	KVENILD BERRONG BUDD BUDD	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH	IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO	031N 031N 031N 033N	113W 113W 113W 112W	36 26 36 36	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4	1.26 2.45 0.31 7.97	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/147 CR CC66/187	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA KENNETH JOHN	KVENILD BERRONG BUDD BUDD GUIO KVENILD	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH ENL. OF FRANK NO. 1 DITCH ENL. OF SPRING CREEK DIVERSI	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW; STO IRR_SW	031N 031N 031N 033N 030N 030N	113W 113W 113W 112W 112W 112W 113W	36 26 36 36 09 01	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4NW1/4 NE1/4SW1/4	1.26 2.45 0.31 7.97 1.5 1.76	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/147 CR CC66/187 CR CC66/191	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA KENNETH JOHN FRANCES	KVENILD BERRONG BUDD BUDD GUIO KVENILD TANNER	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH ENL. OF FRANK NO. 1 DITCH ENL. OF SPRING CREEK DIVERSI ENL. OF MEADOW DITCH	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW IRR_SW IRR_SW	031N 031N 031N 033N 030N 030N 031N	113W 113W 113W 112W 112W 112W 113W 112W	36 26 36 36 09 01 28	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4NW1/4 NE1/4SW1/4 NW1/4SE1/4	1.26 2.45 0.31 7.97 1.5 1.76 1.54	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1 Meadow Canyon Cre
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/147 CR CC66/187 CR CC66/191 CR CC66/192	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA KENNETH JOHN FRANCES HELEN	KVENILD BERRONG BUDD GUIO KVENILD TANNER TANNER	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH ENL. AVRENCE DITCH ENL. OF FRANK NO. 1 DITCH ENL. OF MEADOW DITCH ENL. OF WILSON DITCH	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW IRR_SW IRR_SW IRR_SW	031N 031N 031N 033N 030N 030N 031N 031N	113W 113W 113W 112W 112W 113W 112W 112W	36 26 36 36 09 01 28 34	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4SW1/4 NE1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4	1.26 2.45 0.31 7.97 1.5 1.76 1.54 1.85	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1 Meadow Canyon Cre Meadow Canyon Cre
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/47 CR CC66/187 CR CC66/191 CR CC66/192 CR CC66/192	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA KENNETH JOHN FRANCES HELEN MARGIE	KVENILD BERRONG BUDD GUIO KVENILD TANNER TANNER THOMAS	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. OF GROVEL DITCH ENL. OF FRANK NO. 1 DITCH ENL. OF SPRING CREEK DIVERSI ENL. OF WILSON DITCH ENL. OF WILSON DITCH ENL. MUINN DITCH	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW IRR_SW IRR_SW IRR_SW; STO	031N 031N 031N 033N 030N 030N 031N 031N	113W 113W 113W 112W 112W 113W 113W 112W 112	36 26 36 39 09 01 28 34 35	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4NW1/4 NE1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SE1/4SE1/4	1.26 2.45 0.31 7.97 1.5 1.76 1.54 1.85 4.14	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1 Meadow Canyon Cre Meadow Canyon Cre South Cottonwood C
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/497 CR CC66/187 CR CC66/191 CR CC66/192 CR CC66/475 CR CC66/477	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957 12/07/1953	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957 12/07/1953	Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated Fully Adjudicated	FEAR RANCHES INC	JOHN CLAUDE VELMA VELMA KENNETH JOHN FRANCES HELEN MARGIE CORNELIA	KVENILD BERRONG BUDD BUDD GUIO KVENILD TANNER TANNER THOMAS FEAR	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. OF GROVEL DITCH ENL. OF FRANK NO. 1 DITCH ENL. OF SPRING CREEK DIVERSI ENL. OF MEADOW DITCH ENL. MUNN DITCH ENL. MUNN DITCH HUMPY DITCH	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW; STO IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW	031N 031N 031N 033N 030N 030N 031N 031N	113W 113W 113W 112W 112W 113W 112W 112W	36 26 36 09 01 28 34 35 21	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4NW1/4 NE1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4	1.26 2.45 0.31 7.97 1.5 1.76 1.54 1.54 1.85 4.14 1.54	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1 Meadow Canyon Cre Meadow Canyon Cre South Cottonwood C Camp Creek
CR CC65/410 CR CC65/490 CR CC65/491 CR CC65/496 CR CC66/491 CR CC66/187 CR CC66/191 CR CC66/191 CR CC66/192 CR CC66/475 CR CC66/475	03/02/1959 03/09/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957 12/07/1953 02/23/1956	03/02/1959 03/02/1959 03/02/1959 01/10/1949 01/18/1955 07/13/1954 05/08/1953 05/08/1953 11/18/1957 12/07/1953 02/23/1956	Fully Adjudicated Fully Adjudicated		JOHN CLAUDE VELMA VELMA KENNETH JOHN FRANCES HELEN MARGIE	KVENILD BERRONG BUDD GUIO KVENILD TANNER TANNER THOMAS	ENL. OF SPRING CREEK DIVERSI ENL. OF GROVEL DITCH ENL. OF MUSSLEMAN DITCH ENL. OF GROVEL DITCH ENL. LAWRENCE DITCH ENL. ANTRING CREEK DIVERSI ENL. OF FRANK NO. 1 DITCH ENL. OF MEADOW DITCH ENL. OF WILSON DITCH ENL. OF WILSON DITCH ENL. MUNN DITCH ENL. EX-PENCE DITCH	IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW; STO IRR_SW; STO	031N 031N 031N 030N 030N 030N 031N 031N	113W 113W 112W 112W 112W 113W 112W 112W	36 26 36 09 01 28 34 35 21 09	NE1/4NE1/4 SW1/4SE1/4 NE1/4NE1/4 SW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 NE1/4SW1/4	1.26 2.45 0.31 7.97 1.5 1.76 1.54 1.85 4.14	Spring Creek (5-30-1 Spring Creek (6-30-1 North Piney Creek Spring Creek (6-30-1 Cottonwood Creek North Piney Creek Spring Creek (5-30-1 Meadow Canyon Cre Meadow Canyon Cre South Cottonwood C Camp Creek South Piney Creek
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0	0	0	Spring		42.5511		External
0	0	0	Stream		42.5111		External
0	0	0	Stream		42.6142		External External
0	0 0	0	Stream Stream		42.7760 42.787		External
0	0	0	Stream		42.5449		External
0	0	0	Stream		42.5449		External
0	0	0	Stream		42.625	5 -110.266	External
0	0	0	Stream		42.5458	-110.14	External
0	0	0	Stream		42.7760		External
0	0	0	Stream		42.7870		External
0	0 0	0	Stream Stream	Original	42.5530 42.6144		External External
0	0	0	Stream	Original	42.0144		External
0	0	0	Stream		42.7760		External
0	0	0	Stream		42.566		External
0	0	0	Stream		42.657	6 -110.26	External
0	0	0	Stream		42.6142		External
0	0	0	Stream	0.111.1	42.6370		External
0	0 0	0 0	Stream	Original	42.6396 42.6370		External External
0	0	0	Stream Stream	Original	42.0370		External
0	0	0	Stream		42.6079		External
0	0	0	Stream		42.6142		External
0	0	0	Stream		42.6417	4 -110.19	External
0	0	0	Stream	Original	42.6245		External
0	0	0	Stream		42.781		External
0	0 0	0 0	Stream	Original	42.7463		External External
0	0	0	Stream Stream		42.5111 42.5111		External
0	0	0	Stream	Original	42.6564		External
0	0	0	Stream	Original	42.6564		External
0	0	0	Stream	Original	42.6564		External
0	0	0	Stream		42.5846		External
0	0	0	Stream		42.5458		External
0	0 0	0 0	Stream Stream	Original	42.5185 42.5097		External External
0	0	0	Stream	Original Original	42.5097		External
0	0	0	Stream	Original	42.5191		External
0	0	0	Stream	Original	42.5157		External
0	0	0	Stream	Original	42.5080	9 -110.241	External
0	0	0	Stream	Original	42.5095		External
0	0	0	Stream	Original	42.5084		External
0	0 0	0	Stream Stream	Original Original	42.5097 42.5126		External External
0	0	0	Stream	Original	42.5120		External
0	0	0	Stream	Original	42.4930		External
0	0	0	Stream	Original	42.509		External
0	0	0	Stream	Original	42.509		External
0	0	0	Stream	Original	42.5858		External
0	0	0	Stream	Original	42.5968		External
0	0 0	0	Stream Stream	Original Original	42.7590 42.5458		External External
0	0	0	Stream	Original	42.5458		External
0	0	0	Stream	Original	42.5286		External
0	0	0	Stream	Original	42.4931		External
0	0	0	Stream	Original	42.509	2 -110.192	External

CR CC74/215	05/12/1915	05/12/1915	Fully Adjudicated		JAMES	SMITH	ENL. OF SHAFER DITCH	IRR SW	031N	111W	08	NE1/4NW1/4					Muddy Creek (4-	20.1	0
CR CC75/045	03/23/1920	03/23/1920	Fully Adjudicated		VICKIE LYNN	STROUD	ENL. OF GREEN RIVER SUPPLY	-	033N	110W	04	SE1/4SE1/4					Green River	25.	0
					VICKIE LTININ	311000													0
CR CC75/093	01/05/1916	01/05/1916	Fully Adjudicated	JEWETT LAND AND LIVESTOCK COMPANY			ENL. BRYAN DITCH	IRR_SW; STO	032N	111W	22	SW1/4SE1/4	1.91				Cottonwood Cre		0
CR CC75/194	06/06/1918	06/06/1918	Fully Adjudicated	MILLER LAND AND LIVESTOCK COMPANY			ENL. JIGGER DITCH	IRR_SW	032N	111W	27	SE1/4SW1/4	0.71				Cottonwood Cre		0
CR CC77/106	05/20/1903	05/20/1903	Fully Adjudicated	FLYING W LAND AND LIVESTOCK COMPANY			ENL. JENSEN NO. 4 DITCH	IRR_SW	029N	113W	14	NW1/4NW1/4	3.5				South Piney Cree	2k	0
CR CC77/107	07/13/1901	07/13/1901	Fully Adjudicated	FLYING W LAND AND LIVESTOCK COMPANY			ENL. JENSEN NO. 4 DITCH	IRR_SW	029N	113W	14	NW1/4NW1/4	1.61				South Piney Cree	ek 🛛	0
CR CC79/331	07/17/1947	07/17/1947	Fully Adjudicated		KEITH	MCNINCH	ENL. OF MCNINCH SUPPLY DIT	(IRR SW; RES	031N	113W	35	SW1/4SE1/4	4.26				Spring Creek (5-3	30-1	0
CR CC79/332	07/17/1947	07/17/1947	Fully Adjudicated		KEITH	MCNINCH	ENL. OF MCNINCH SUPPLY DIT	_	030N	113W	02	NW1/4NE1/4					Beaver Creek		0
CR CC80/394	12/27/1955	12/27/1955	Fully Adjudicated		JOHN J AND PENNY L	CHRISMAN	ENL. YANKEE DITCH	IRR_SW; STO	029N	112W	09	SW1/4SE1/4	0.43				South Piney Cree		0
CR CC82/317		08/17/1998	Fully Adjudicated		WILLIAM M, JR AND ANI		BARNEY PIVOT NO. 2 PIPELINE		029N	111W	02	NW1/4NW1/4	0.45				Green River		0
	08/17/1998							-					4 77						0
CR CA03/061	03/09/1898	03/09/1898	Fully Adjudicated		CHARLES	BUDD	ENL. BEAVER DITCH	IRR_SW	030N	114W	25	NE1/4NE1/4	1.77				Middle Piney Cre		0
CR CA03/065	08/12/1899	08/12/1899	Fully Adjudicated		BENJ	GRIGGS	ENL. BEAVER DITCH	IRR_SW	030N	114W	25	NE1/4NE1/4	1.9				Middle Piney Cre		0
CR CA03/108	11/07/1898	11/07/1898	Fully Adjudicated		JAMES	MICKELSON	ENL. SOUTH PINEY DITCH	IRR_SW	029N	113W	10	SW1/4SW1/4	1.15				South Piney Cree	ek	0
CR CA03/165	07/20/1897	07/20/1897	Fully Adjudicated		CHARLES	BALL	ISLAND DITCH	IRR_SW	032N	111W	21	NE1/4SE1/4	4.68				Cottonwood Cre	ek	0
CR CA03/169	06/13/1900	06/13/1900	Fully Adjudicated		NELLIE	BALL	ENL. VALLEY DITCH	IRR_SW	032N	111W	20	NW1/4NE1/4	1.03				Cottonwood Cre	ek	0
CR CB03/107	11/07/1898	11/07/1898	Fully Adjudicated		MARY	BECK	ENL. SOUTH PINEY DITCH	IRR SW	029N	113W	10	SW1/4SW1/4	4.56				South Piney Cree	ek 🛛	0
CR CB03/120	02/18/1898	02/18/1898	Fully Adjudicated		CHAS	BUDD	ENL. F W ARMSTRONG DITCH	IRR SW	030N	112W	15	SE1/4SE1/4	4.56				North Piney Cree	ek	0
CR CB03/169	06/13/1900	06/13/1900	Fully Adjudicated		NELLIE	BALL	ENL. ISLAND DITCH	IRR_SW	032N	111W	21	NE1/4SE1/4	1.3				Cottonwood Cre		0
CR CR15/382	08/31/1998	08/31/1998	Fully Adjudicated	SEVEN MILE RIVER RANCH. LLC			SEVEN MILE RIVER RANCH NO	-	033N	110W	05	NW1/4NE1/4					River Springs	17.3	0
CR CR18/084	10/17/2001	10/17/2001	Fully Adjudicated		JON	MALINSHI	ASPEN RESERVOIR	FIS	033N	114W	21	NW1/4SW1/4					Aspen Creek	5.02	0
CR CR02/100	03/05/1941	03/05/1941	Fully Adjudicated		E W AND LOIS C	MCNINCH		DOM SW; IRR		113W	11	SE1/4SE1/4					McNinch Draw	198	0
					L W AND LOIS C	WENNEL			_				75				WICHNITCH DIAW	150	0
CR UW01/191	08/26/1971	08/26/1971	Fully Adjudicated	GULF OIL CORPORATION			BIG PINEY MESA VERDE UNIT	-	029N	113W	26	SE1/4SE1/4							0
CR UW10/238	04/13/1976	04/13/1976	Fully Adjudicated	TOWN OF MARBLETON			MARBLETON NO. 1 WELL	MUN_GW	030N	111W	30	NE1/4SE1/4	250						0
CR UW13/035	05/17/2002	05/17/2002	Fully Adjudicated		MICHAEL RAY	HUGHES	SLEEPY HOLLOW NO. 2 WELL	MIS	030N	111W	20	NE1/4SW1/4	18						0
CR UW13/036	09/23/2002	09/23/2002	Fully Adjudicated	JOINT BIG PINEY-MARBLETON AIRPORT BOARD			AIRPORT NO. 1 WELL	MIS	030N	110W	17	SW1/4SW1/4	18						0
CR UW14/090	01/25/1999	01/25/1999	Fully Adjudicated	SUBLETTE COUNTY			MARBLETON LANDFILL NO. 1	MIS	030N	111W	22	NE1/4NW1/4	25						0
CR UW14/091	02/07/2007	02/07/2007	Fully Adjudicated	SUBLETTE COUNTY			ENL. MARBLETON LANDFILL N	CMIS	030N	111W	22	NE1/4NW1/4	0						0
CR UW15/103	01/14/1959	01/14/1959	Fully Adjudicated	TOWN OF BIG PINEY			BIG PINEY NO. 1 WELL	MUN_GW	030N	112W	36	SW1/4NE1/4	100						0
CR UW15/104	05/05/1964	05/05/1964	Fully Adjudicated	TOWN OF BIG PINEY			BIG PINEY NO. 3 WELL	MUN_GW	030N	112W	36	SW1/4NE1/4	75						0
CR UW15/105		09/15/1981	Fully Adjudicated	TOWN OF BIG PINEY			TOWN OF BIG PINEY NO. 6 WE		030N	112W	36	SW1/4NE1/4	100						0
CR UW15/106	06/21/1999	06/21/1999	Fully Adjudicated	TOWN OF BIG PINEY			BIG PINEY WELL NO. 8	MUN GW	030N	111W	31	SW1/4NW1/4	150						0
CR UW15/107	02/04/2004	02/04/2004	Fully Adjudicated	ELDEN TRUST			MIDWAY MALL NO. 1 WELL	MIS	030N	111W	31	NE1/4NE1/4	25						0
									030N				100						0
CR UW15/108	06/02/2008	06/02/2008	Fully Adjudicated	TOWN OF BIG PINEY			ENL. TOWN OF BIG PINEY NO.	-		112W	36	SW1/4NE1/4							0
CR UW02/209	05/17/1971	05/17/1971	Fully Adjudicated		MARSHALL AND ONA	GURNEY	GURNEY NO. 1 WELL	MIS	030N	111W	30	NE1/4SE1/4	10						0
P186166.0W	03/31/2008		Incomplete	BIG PINEY MARBLETON AIRPORT BOARD			BIG PINEY-MARBLETON AIRPO		030N	111W	17	SW1/4SW1/4	70	650.00	137	N	320		0
P187196.0W	06/30/2008		Complete		SCOTT	WILLMAN	WILLMAN #1	DOM_GW	034N	110W	29	NW1/4SE1/4	25	225.00	100	N	170		0
P187676.0W	07/23/2008		Complete	BUDD RANCHES INC			NOBLE #1	DOM_GW	031N	113W	26	SE1/4NW1/4	25	180.00	25	N	120		0
P187268.0W	06/02/2008		Fully Adjudicated	TOWN OF BIG PINEY			ENL. TOWN OF BIG PINEY #6	MUN_GW	030N	112W	36	SW1/4NE1/4	100						0
P190213.0W	02/22/2008		Fully Adjudicated	TOWN OF BIG PINEY			BIG PINEY WELL NO. 9	MUN GW	030N	112W	36	SW1/4NE1/4	200	130.00	13.4	N	120		0
P191037.0W	07/02/2009		Complete		RONALD	GORDON	RG #1	DOM GW	030N	111W	03	NE1/4SW1/4	10	200.00	60	N	90		0
P191507.0W	09/30/2009		Complete	ULTRA RESOURCES			WELL T-7-RW	MON	033N	110W	02	NW1/4SW1/4	0						0
CR CC66/492	05/01/1882	05/01/1882	Fully Adjudicated		PAYSON	SPAULING	SIRRON DITCH ACT SPAULDIN		029N	113W	09	NW1/4SE1/4	2.22				Middle Piney Cre	ook	0
CR CA03/145	12/31/1883	1883	Fully Adjudicated		P	THORNTON	DRY PINEY DITCH	IRR_SW	028N	113W	28	NW1/4NE1/4	0.71				North Fork Dry P		0
					n F C														0
CR CB03/094	05/01/1885	05/01/1885	Fully Adjudicated		EC	SWAN	LAST CHANCE DITCH ACT THE		029N	112W	09	SW1/4SW1/4	3.4				South Piney Cree	2K	0
P196250.0W	07/15/2011		Complete		JAY	MCGINNIS	CRETACEOUS #1	STK	029N	113W	33	NE1/4SE1/4	7	225.00	45	N	180		0
CR CC76/109	04/20/1887	04/20/1887	Fully Adjudicated	FLYING W LAND AND LIVESTOCK COMPANY			LEHMER DITCH (ACIPT ISLAND	IRR_SW	029N	113W	14	NW1/4NW1/4	3.02				South Piney Cree	ek	0
CR CA03/097	05/31/1887	05/00/1887	Fully Adjudicated		NW	GRIGGS	TARTER DITCH ACT THE MIDM	EIRR_SW	029N	111W	05	SW1/4SW1/4	2.28				South Piney Cree	2k	0
CR CC06/005	07/01/1890	07/01/1890	Fully Adjudicated		AW	SMTIH	S MCKAY NO. 4 DITCH	IRR_SW	030N	112W	15	SW1/4NE1/4	1.56				North Piney Cree	ek	0
CR CC06/004	07/01/1890	07/01/1890	Fully Adjudicated		AW	SMITH	S MCKAY NO. 3 DITCH	IRR SW	030N	112W	15	SW1/4NE1/4	2.34				North Piney Cree	ek	0
CR CC06/003	07/01/1890	07/01/1890	Fully Adjudicated		AW	SMITH	S MCKAY NO. 2 DITCH	IRR_SW	030N	112W	15	SE1/4SE1/4	3.55				North Piney Cree		0
CR CC65/141	05/01/1888	05/01/1888	Fully Adjudicated		GORDON M AND MARA		MULE SHOE DITCH	IRR SW	030N	111W	32	NW1/4SE1/4	1.44				North Piney Cree		0
					A W	SMITH		-	030N	112W	10								0
CR CC06/001	05/01/1888	05/01/1888	Fully Adjudicated				H MCKAY NO. 2 DITCH	IRR_SW				NE1/4SW1/4	1.46				North Piney Cree		0
CR CC05/097	11/12/1885	11/12/1885	Fully Adjudicated		AW	SMITH	H MCKAY DITCH	IRR_SW	030N	112W	04	SW1/4SW1/4	8.5				North Piney Cree		0
CR CA03/112	12/31/1886	1886	Fully Adjudicated		WG	WARREN	GILBERT DITCH	IRR_SW	031N	114W	22	NE1/4SE1/4	3.42				North Piney Cree		0
CR CA03/114	05/20/1889	05/20/1889	Fully Adjudicated		DANIEL	BUDD	BUDD NO. 1 DITCH	IRR_SW	030N	112W	36	NW1/4NW1/4	1.1				North Piney Cree		0
CR CB03/113	05/10/1889	05/10/1889	Fully Adjudicated		AW	SMITH	MILLSAP NO. 1 DITCH	IRR_SW	030N	112W	15	NW1/4NW1/4	2.28				North Piney Cree	ek	0
CR CC63/405	04/10/1889	04/10/1889	Fully Adjudicated		VELMA	BUDD	MUSSELMAN DITCH	IRR_SW	031N	113W	26	SW1/4SE1/4	4.19				North Piney Cree	ek	0
CR CR19/119	06/15/2000	6/15/2000	Fully Adjudicated		JAMES D. AND CHARLOT	T FINLEY	LAURIE RESERVOIR	REC	033N	114W	33	SE1/4SW1/4					South Cottonwoo	od C	0
CR CC66/493	05/15/1886	05/15/1886	Fully Adjudicated		PAYSON	SPAULDING	A SMITH ACT SPAULDING DITO	CIRR SW	029N	113W	09	NW1/4SE1/4	0.84				Middle Piney Cre	eek	0
CR CA03/051	11/15/1885	11/15/1885	Fully Adjudicated		JAMES	MICKELSON	LEIFER NO. 4 DITCH ACT THE N	IIRR SW	029N	112W	07	SW1/4NE1/4	1.14				Middle Piney Cre		0
CR CB03/055	05/31/1890	05/00/1890	Fully Adjudicated		SARAH	NOBLE	NOBLE NO. 3 DITCH	IRR SW	029N	112W	07	SW1/4NE1/4	0.49				Middle Piney Cre		0
CR CA03/056	05/31/1890	05/00/1890	Fully Adjudicated		SARAH	NOBLE	NOBLE NO. 5 DITCH	IRR SW	029N	112W	07	SW1/4NE1/4	0.78				Middle Piney Cre		0
CR CA03/057	05/31/1890	05/00/1890	Fully Adjudicated		SARAH	NOBLE	NOBLE NO. 4 DITCH	IRR_SW	029N	112W	07	SW1/4NE1/4	0.35				Middle Piney Cre		0
CR CB03/057	05/31/1890	05/00/1890			SARAH	NOBLE	NOBLE NO. 7 DITCH	IRR_SW	029N	112W	07	SW1/4NE1/4	0.44						0
			Fully Adjudicated					-									Middle Piney Cre		0
CR CC06/026	12/31/1885	1885	Fully Adjudicated		ZT	NOBLE	NOBLE NO. 1 DITCH	IRR_SW	029N	112W	08	NE1/4NW1/4	3.76				Middle Piney Cre	еек	0
P196599.0W	08/29/2011		Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO 9			ENL OF FOOTBALL FIELD NO. 1		030N		31	NE1/4SW1/4	0						U
P196600.0W	08/29/2011		Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO. 9			ENL SCHOOL PARK NO. 1 WEL		030N	111W	31	NE1/4SW1/4	0						0
P197180.0W	09/07/2011		Incomplete	TOWN OF BIG PINEY			BIG PINEY WELL NO. 10	MUN_GW	030N		31	NE1/4SE1/4	200						0
P197521.0W	02/27/2012		Cancelled	J.F. RANCH INC.			JF RANCH INC. #1	STK	028N	112W	18	NW1/4SE1/4	12						0
CR CR18/086	10/17/2001	10/17/2001	Fully Adjudicated		JON	MALINSKI	WILLOW RESERVOIR	FIS; WL	033N	114W	21	SW1/4SW1/4					Willow Creek		0
CR UW15/214	07/21/1997		Incomplete	EXXON CORPORATION			EXXON NO. 1 WELL	MIS	028N	114W	22	SW1/4NE1/4	18						0
P34721.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	BEAVER DAM CREEK 2 WATER	1	027N	114W	02	SE1/4NE1/4	4.46				Beaver Dam Cree	ek	0
P34722.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	BLACK CANYON CREEK 26 WA	т	028N	114W	26	NE1/4SW1/4	4.46				Black Canyon Cre	eek	0
P34723.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	CABIN CREEK 35 WATER HAUL		028N	114W	35	SW1/4NE1/4	4.46				Cabin Creek		0
P34724.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	DRY PINEY CREEK 26 WATER H		028N	114W	26	NE1/4SE1/4	4.46						0
P34725.0D					DELPHINE		HOGARTY CREEK 15 WATER H		028N 028N	114W	26 15		4.46				Dry Piney Creek		0
	06/22/2012		Cancelled	EXXON MOBIL CORP		WHITEHORSE						SE1/4SW1/4					Hogarty Creek	b.	0
P34726.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	PINE GROVE CREEK 9 WATER I		028N	114W	09	NE1/4NE1/4	4.46				Pine Grove Creel		U
P34727.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	PINE GROVE CREEK 10 WATER		028N	114W	10	SE1/4NE1/4	4.46				Pine Grove Creel		U
P34728.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	PINE GROVE CREEK 13 WATER		028N	114W	13	SW1/4SE1/4	4.46				Pine Grove Creel		0
P34729.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	SOUTH FORK BEAVER CREEK 3	1	028N	114W	03	NW1/4NW1/4	4.46				South Fork Beave	er C	0
P34730.0D	06/22/2012		Cancelled	EXXON MOBIL CORP	DELPHINE	WHITEHORSE	SOUTH FORK BEAVER CREEK 2	5	029N	114W	25	NE1/4SW1/4	4.46				South Fork Beave	er C	0
CR CC92/001	12/28/1910	12/28/1910	Fully Adjudicated	RIMFIRE RANCH LLC			GREEN RIVER SUPPLY CANAL	IRR_SW	033N	110W	04	SE1/4SE1/4					Green River	-1	0
P34733.0D	07/05/2012		Cancelled	DENBURY ONSHORE LLC			CIMAREX NO. 2 WATER HAUL	-	029N		17	NW1/4SW1/4	0.44				Beaver Creek		0
			Cancelled	DENBURY ONSHORE LLC	JIM	PILON	RILEY RIDGE PLANT 2 WATER H	4	029N	113W	11	NW1/4SW1/4	0.44				Middle Piney Cre	ek	0
P34743 0D	07/26/2012			DENBURY ONSHORE LLC	JIM	PILON	RILEY RIDGE PLANT 3 WATER H		029N	113W	17	NW1/45W1/4	0.44				Beaver Creek	-	0
P34743.0D P34744.0D	07/26/2012						MEET MODELLANT 3 WATEN I	· · · · · · · · · · · · · · · · · · ·					0.44				Deaver Creek		0
P34744.0D	07/26/2012		Cancelled			PILON	DILEV DIDGE DI ANT A MATCH	-	0201	112\^/	1/	NI\A/1/ANI\A/1/A	0.44				South Dinou Coord	ak	0
P34744.0D P34745.0D	07/26/2012 07/26/2012		Cancelled	DENBURY ONSHORE LLC	MIL	PILON	RILEY RIDGE PLANT 4 WATER H		029N	113W	14	NW1/4NW1/4	0.44				South Piney Cree		0
P34744.0D P34745.0D P34748.0D	07/26/2012 07/26/2012 07/26/2012		Cancelled Cancelled	DENBURY ONSHORE LLC BRIDGER TETON NATIONAL FOREST		PILON	USFS BRIDGER TETON 12-30 W	L	030N	115W	03	SW1/4NW1/4	0.5				South Piney Cree Middle Piney Cre		0
P34744.0D P34745.0D P34748.0D P198787.0W	07/26/2012 07/26/2012 07/26/2012 08/28/2012		Cancelled Cancelled Fully Adjudicated	DENBURY ONSHORE LLC BRIDGER TETON NATIONAL FOREST DENBURY ONSHORE LLC	MIL		USFS BRIDGER TETON 12-30 W ENL WYOMING ELECTRIC NO.	/. 1 MIS	030N 029N	115W 111W	03 08	SW1/4NW1/4 SW1/4NW1/4	0.5 0				Middle Piney Cre	eek	0 0 0
P34744.0D P34745.0D P34748.0D	07/26/2012 07/26/2012 07/26/2012		Cancelled Cancelled	DENBURY ONSHORE LLC BRIDGER TETON NATIONAL FOREST		PILON SAMBRANO	USFS BRIDGER TETON 12-30 W	/. 1 MIS	030N	115W	03	SW1/4NW1/4	0.5					eek	0 0 0 0

0	0	0	Stream	Original		42.69085	-110.097	External
0	0	0	Stream	Original		42.85318	-109.981	External
0	0	0	Stream	Original		42.73431	-110.053	External
0	0	0	Stream	Original		42.72018	-110.059	External
0	0	0	Stream	Original		42.50566	-110.275	External
0	0	0	Stream	Original		42.50566	-110.275	External
0	0	0	Stream	0		42.6255	-110.266	External
0	0	0	Stream			42.62341	-110.267	External
0	0	0	Stream	Original		42.5092	-110.192	External
0	0	0		upplementa		42.52759	-110.045	External
0	0	0	Stream	appiement		42.56283	-110.36	External
0	0	0	Stream			42.56283	-110.36	External
0	0	0	Stream			42.50283	-110.30	External
		0		Original				
0	0	0	Stream	Original		42.73839	-110.066 -110.092	External
0			Stream	Original		42.74751		External
0	0	0	Stream			42.50842	-110.297	External
0	0	0	Stream	Original		42.58148	-110.165	External
0	0	0	Stream	Original		42.73838	-110.066	External
0	17.3	17.3	Reservoir			42.86556	-110.008	External
0	5.02	5.02	Reservoir			42.81423	-110.468	External
0	0	198	Reservoir	Original		42.59607	-110.262	External
0	0	0	Well	Original		42.46619	-110.262	External
0	0	0	Well	Original		42.55268	-110.107	External
0	0	0	Well			42.56731	-110.096	External
0	0	0	Well			42.57454	-109.986	External
0	0	0	Well			42.5722	-110.058	External
0	0	0	Well			42.5722	-110.058	External
0	0	0	Well			42.54214	-110.134	External
0	0	0	Well			42.54203	-110.134	External
0	0	0	Well			42.54258	-110.134	External
0	0	0	Well			42.54141	-110.123	External
0	0	0	Well			42.54684	-110.109	External
0	0	0	Well			42.54258	-110.134	External
0	0	0	Well	Original		42.55251	-110.107	External
0	0	0	Well	0	Y	42.57792	-110.103	External
0	0	0	Well		N	42.8875	-110.005	External
0	0	0	Well		N	42.64612	-110.272	SEO
0	0	0	Well			42.54254	-110.132	External
0	0	0	Well		N	42.54169	-110.133	SEO
0	0	0	Well		N	42.61014	-110.056	SEO
0	0	0	Well			42.85666	-109.957	SEO
0	0	0	Stream	Original		42.51276	-110.305	External
0	0	0	Stream	Original		42.39007	-110.305	External
		0		Original				
0	0	0	Stream	Original		42.50972	-110.2	External
0	0	0	Well	Original	N	42.4562 42.50566	-110.3 -110.275	SEO Extornal
			Stream	Original				External
0	0	0	Stream	Original		42.52136	-110.104	External
0	0	0	Stream			42.58928	-110.172	External
0	0	0	Stream			42.58928	-110.172	External
0	0	0	Stream			42.58148	-110.165	External
0	0	0	Stream			42.53897	-110.094	External
0	0	0	Stream	Original		42.59688	-110.178	External
0	0	0	Stream			42.60922	-110.202	External
0	0	0	Stream			42.65516	-110.397	External
0	0	0	Stream			42.54587	-110.14	External
0	0	0	Stream	Original		42.59112	-110.179	External
0	0	0	Stream	Original		42.63962	-110.265	External
0	0.91	0.91	Reservoir			42.78156	-110.463	External
0	0	0	Stream	Original		42.51276	-110.305	External
0	0	0	Stream	Original		42.51784	-110.232	External
0	0	0	Stream	Original		42.51785	-110.232	External
0	0	0	Stream	Original			-110.232	External
0	0	0	Stream	Original			-110.232	External
0	0	0	Stream	Original		42.51785	-110.232	External
0	0	0	Stream	Original		42.51917	-110.216	External
0	0	0	Well			42.53794	-110.117	SEO
0	0	0	Well			42.5379	-110.117	SEO
0	0	0	Well			42.53758	-110.107	SEO
0	0	0	Well			42.40596	-110.196	SEO
0	1.84	1.84	Reservoir			42.81151	-110.47	External
0	0	0	Well			42.3992	-110.373	External
0	0	0	Stream			42.3572	-110.35	External
0	0	0	Stream			42.383	-110.359	External
0	0	0	Stream			42.3701	-110.354	External
0	0	0	Stream			42.3819	-110.349	External
0	0	0	Stream			42.40621		External
0	0	0	Stream			42.4335	-110.386	External
0	0	0	Stream			42.428	-110.367	External
0	0	0	Stream			42.4082	-110.334	External
0	0	0	Stream			42.4467	-110.381	External
0	0	0	Stream				-110.368	External
0	0	0	Stream				-109.981	External
0	0	0	Stream			42.4992	-110.335	SEO
0	0	0	Stream			42.5116	-110.335	External
0	0	0	Stream			42.5116	-110.278	External
0	0	0	Stream			42.4991 42.5053	-110.334	External
0	0	0	Stream			42.5053	-110.276	External
0	0	0	Well			42.51785	-110.53	SEO
0	0	0	Stream			42.51215	-110.103	External
U	U	U	Juedill			42.3029	110.002	LATCHIG

P34784.0D	08/24/2012		Cancelled	SUBLETTE COUTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD AND		030N	111W	03	NW1/4NW1/4	1					Muddy Creek (4-29-:	
P34786.0D	08/24/2012		Cancelled	SUBLETTE COUTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD AND		031N	113W	25	SE1/4SE1/4	1					Spring Creek (6-30-1	
P34787.0D	08/24/2012		Cancelled	SUBLETTE COUTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD AND		031N	112W	32	NE1/4SE1/4	1					West Meadow Canyo	
CR CC92/15	7 02/17/2009	02/17/2009	Fully Adjudicated	BOARD OF SUBLETTE COUNTY COMMISSIONERS			SUBLETTE COUNTY NO. 5 SOU	TFIR; IND SW	033N	112W	31	SW1/4NW1/4						South Cottonwood C	
CR CC92/15		02/17/2009	Fully Adjudicated	BOARD OF SUBLETTE COUNTY COMMISSIONERS			SUBLETTE COUNTY NO. 4 NOR	TEIR: IND_SW	033N	113W	11	SW1/4SE1/4						North Cottonwood C	
CR CC92/15		01/16/2004	Fully Adjudicated	RYEGRASS RANCH OWNERS ASSOCIATION			ENL. PEARL NO. 2 DITCH	RES	033N	113W	11	SE1/4SW1/4						North Cottonwood C	
CR CR21/03		01/16/2004	Fully Adjudicated	RYEGRASS RANCH OWNERS ASSOCIATION			MACMO NO. 1 RESERVOIR	WET	033N	113W	11	SE1/4SE1/4						North Cottonwood C	
CR CR21/03		01/16/2004	Fully Adjudicated	RYEGRASS RANCH OWNERS ASSOCIATION			MACMO NO. 4 RESERVOIR	FIS	033N	113W	13	NW1/4NW1/4						North Cottonwood C	
CR CR21/03		01/16/2004	Fully Adjudicated	RYEGRASS RANCH OWNERS ASSOCIATION			MACMO NO. 3 RESERVOIR	FIS	033N	113W	14	NE1/4NE1/4						North Cottonwood C	
CR CR21/03		01/16/2004	Fully Adjudicated	RYEGRASS RANCH OWNERS ASSOCIATION			MACMO NO. 2 RESERVOIR	WET	033N	113W	11	SE1/4SE1/4						North Cottonwood C	
P199115.0V			Incomplete		WILMA AND HOLLY	DAVIS	DAVIS RANCH WELL	STK	030N	111W	32	SW1/4SW1/4	25						
CR UW19/0	87 05/10/2006		Fully Adjudicated	COUNTY OF SUBLETTE, WYOMING			SUBLETTE COUNTY WEED AND	MIS	030N	111W	17	SE1/4NE1/4	20				80		
CR UW19/0	88 07/14/1972		Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO. 9			FOOTBALL FIELD NO. 1 WELL	MIS	030N	111W	31	NE1/4SW1/4	230						
CR UW19/0	89 08/29/2011		Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO. 9			ENL. FOOTBALL FIELD NO. 1 W	EMIS	030N	111W	31	NE1/4SW1/4	0						
CR UW19/0	90 06/20/1994		Fully Adjudicated	SUBLETTE SCHOOL DISTRICT NO. 9			SCHOOL PARK NO. 1 WELL	MIS	030N	111W	31	NE1/4SW1/4	60						
CR UW19/0			Fully Adjudicated	SUBLETTE COUNTY SCHOOL DISTRICT NO. 9			ENL, SCHOOL PARK NO. 1 WEL	IMIS	030N	111W	31	NE1/4SW1/4	0						
CR CC93/09		03/12/2008	Fully Adjudicated	USDA FOREST SERVICE			SACAJAWEA CAMPGROUND S	DOM SW	030N	115W	04	SE1/4NE1/4	0.056					SC Spring	
CR CC93/09		09/01/2004	Fully Adjudicated	OSB/TTOREST DETITIOE	JOHN G AND SHAUN G		CENTERFIRE DITCH	FTH; RES	032N	111W	27	NW1/4NW1/4	0.050					Cottonwood Creek	
CR CR21/19		09/01/2004			SHAUN G AND JOHN G		CENTERFIRE RESERVOIR	FIS; WL	032N	111W	27	SE1/4NW1/4						Cottonwood Creek	
			Fully Adjudicated																42.52
CR CR21/19		05/01/2008	Fully Adjudicated		SHAUN G AND JOHN G		SOPHIA RESERVOIR	WL	032N	111W	26	SE1/4NE1/4						Jewett Creek	13.53
P13981.0R	11/09/2012		Complete		MIKE	HUISH	WAPIKA-12	FIS	031N	110W	08	NW1/4SE1/4						Green River	0
P199373.0V			Complete		LISA	COPELAND	COPELAND #1	DOM_GW	030N	112W	11	NW1/4NW1/4	15	230.00	58	N	175		
P34913.0D	03/08/2012		Complete	MLN ENTERPRISES LLC	WILMA	DAVIS	TRAVIS NO. 1 DITCH - WMC CF	R IRR_SW	030N	111W	31	NE1/4NW1/4						West Meadow Canyo	
CR CC94/04	2 02/08/2008	02/08/2008	Fully Adjudicated	USDI BUREAU OF LAND MANAGEMENT			SAGO PIPELINE	RES	032N	111W	24	SW1/4SE1/4						Sago Creek	
CR CR22/13	4 12/31/2007	12/31/2007	Fully Adjudicated	WILLIAM H AND CAROLYN M BUDD FAMILY REVOC			FRIENDLY RESERVOIR	FIS; WL	031N	113W	36	SW1/4NE1/4						Budd Spring Draw	13.07
CR CR22/13	8 02/08/2008	02/08/2008	Fully Adjudicated		SHAUN G AND JOHN G	ANDRIKOPOULOS	SAGO RESERVOIR	WL	032N	111W	24	SE1/4SE1/4						Sago Creek	1.16
CR CR22/13	9 02/08/2008	02/08/2008	Fully Adjudicated		SHAUN G AND JOHN G	ANDRIKOPOULOS	TRUMPETER RESERVOIR	WL	032N	111W	25	NE1/4NE1/4						Sago Creek	
CR CR22/14		04/28/2008	Fully Adjudicated		SHAUN G AND JOHN G		ALEXANDER RESERVOIR	WL	032N	111W	25	SW1/4NW1/4						Jewett Creek	4
P199916.0V		, ==, ====	Incomplete		COREY	BENNETT	BENNETT #1	DOM GW	031N	113W	36	NE1/4SE1/4	20						
P200144.0V				SOMMERS RANCH LLC	CONLI	DEMINET	TY WELL	DOM GW	032N	110W	04	NE1/43E1/4	25						
			Incomplete			DO ANDT		-											
P200283.0V			Incomplete		JENNIFER AND ANTHON		BRANDT #1	DOM_GW	026N	112W	06	SW1/4SE1/4	25						
P34999.0D	05/16/2013		Complete	EXXONMOBIL WY OPERATIONS, BLACK CANYON DE		VICKREY	FISH CREEK WATER HAUL 26	TEM	030N	115W	26	NW1/4SW1/4	0.45					Fish Creek	
P200337.0V	/ 05/17/2013		Incomplete		ROBERT	WARDELL	E WARDELL #2	DOM_GW	030N	110W	20	NW1/4SE1/4	20						
P35008.0D	06/03/2013		Complete	MOUNTAIN STATES WATER SERVICE INC	JENNIFER	REES	BIRCH CREEK FIELD WATER HA	ITEM	027N	112W	29	SW1/4NW1/4	0.93					Green River	
P200375.0V	/ 05/24/2013		Incomplete		JACOB AND AMBERLYN	TRAUGHBER	JAT 1	DOM_GW	026N	112W	06	NW1/4SE1/4	25						
P200415.0V	/ 06/03/2013		Incomplete		MARY	BROWN	GREENWOOD 2	DOM GW;STK	030N	111W	33	NW1/4SW1/4	25						
CR UW20/1			Fully Adjudicated	DENBURY ONSHORE LLC			WYOMING ELECTRIC NO. 1 WE	MIS	029N	111W	08	SW1/4NW1/4	9						
CR UW20/1			Fully Adjudicated	DENBURY ONSHORE LLC			ENL WYOMING ELECTRIC NO.		029N	111W	08	SW1/4NW1/4	0						
CR UW20/1			Complete	TOWN OF BIG PINEY			BIG PINEY WELL NO. 9	MUN GW	030N	112W	36	SW1/4NE1/4	200				120		
P200466.0V			Incomplete		KELLEY AND KATHY	KING	KING 1	DOM_GW	026N	112W	06	NE1/4SW1/4	25				120		
						RAINES		-											
P200469.0V			Incomplete		C.N. GUS		GREEN ACRES	DOM_GW	026N	112W	07	NE1/4NW1/4	25						
P200482.0V			Incomplete		LARRY	MICHAEL	LARRY 1	DOM_GW	026N	112W	06	SW1/4SE1/4	25						
P200545.0V			Incomplete		JEFF	BRADY	BRADY #1	DOM_GW	026N	112W	06	SE1/4NE1/4	25						
P200645.0V			Incomplete		ARLENE	POLING	DAP WELL	DOM_GW	026N	112W	06	SW1/4SE1/4	21						
P200747.0V	/ 07/29/2013		Incomplete		RONALD	ALEXANDER	ALEXANDER #1	DOM_GW	026N	112W	06	SE1/4SW1/4	18						
P200754.0V	/ 07/29/2013		Incomplete		BOB	JACOBSON	BOBBYJ #1	DOM_GW	026N	112W	06	SE1/4SW1/4	25						
P200755.0V	/ 07/29/2013		Complete		KENNETH	KELLEY	KELLEY 1	DOM_GW	026N	112W	06	SE1/4SW1/4	12	100.00	10	N	85		
P200883.0V	/ 08/16/2013		Incomplete		GARY AND LINDA	HOWARD	HOWARD #1	DOM_GW	026N	112W	06	NW1/4SE1/4	21						
P200921.0V			Incomplete		JAMES	CLEMENT	CLEMENT #2	DOM_GW	026N	112W	06	SE1/4NE1/4	25						
P200958.0V			Incomplete		DAN	HUISH	WAPIKA WELL #1	DOM GW	031N	110W	08	SE1/4SW1/4	25						
CR CC93/26		11/19/2001	Fully Adjudicated	BUDD RANCHES INC	5,11	1101011	ENL. JOE BUDD SUPPLY DITCH	-	031N	112W	18	SE1/4SW1/4	20					West Meadow Canyo	
CR CR22/30		11/19/2001		BUDD RANCHES INC				IRR_SW	031N	112W									
		11/19/2001	Fully Adjudicated	BODD RANCHES INC			ENL. JOE BUDD	-			20	SE1/4SW1/4	50					West Meadow Canyo	
P201096.0V			Incomplete		DAN	HUISH	WAPIKA WELL #2	MIS	031N	110W	08	SE1/4SW1/4	50						
P201422.0V			Incomplete		ALFRED AND VICKIE	ARCHAMBAULT	ARCHAMBAULT #1	DOM_GW	030N	111W	10	NW1/4SE1/4	24						
P35126.0D	01/14/2014		Complete		MATT	SIMPSON	0C23039 WATER HAUL	TEM	034N	110W	33	SE1/4SE1/4	1					Green River	
CR CR23/16		03/07/1949	Fully Adjudicated	ROBERT A AND TERRIE A SPRINGMAN LIVING TRUS			SPRINGMAN STOCK	STO	030N	114W	26	NW1/4SW1/4						Dry Gulch	2.1
P201881.0V	/ 04/16/2014		Incomplete		CHRISTOPHER AND DEID	DENISON	DOUBLE D	DOM_GW	030N	111W	19	SE1/4NE1/4	25						
P201910.0V	/ 04/16/2014		Incomplete		JENNIFER AND BUCK	BRANDT	BRANDT #2	DOM_GW	026N	112W	06	SW1/4NE1/4	25						
P35234.0D	07/02/2014	7/2/2014	Complete	EXXONMOBILE CORPORATION	SHELBY	PENNINGTON	BEAVER DAM CREEK 2 WATER	ITEM	027N	114W	02	SE1/4NE1/4	4.46					Beaver Dam Creek	
P35235.0D	07/02/2014	7/2/2014	Complete	EXXONMOBILE CORPORATION	SHELBY	PENNINGTON	BLACK CANYON CREEK 26 WA	TTEM	028N	114W	26	NE1/4SW1/4	4.46					Black Canyon Creek	
P35236.0D	07/02/2014	7/2/2014	Complete	EXXONMOBILE CORPORATION	SHELBY	PENNINGTON	CABIN CREEK 35 WATER HAUL	TEM	028N	114W	35	SW1/4NE1/4	4.46					Cabin Creek	
P35237.0D	07/02/2014	7/2/2014	Complete	EXXONMOBILE CORPORATION	SHELBY	PENNINGTON	DRY PINEY CREEK 26 WATER H	/TEM	028N	114W	26	NE1/4SE1/4	4.46					Dry Piney Creek	
P35238.0D	07/02/2014	7/2/2014	Complete		SHELBY	PENNINGTON	HOGARTY CREEK 15 WATER H		028N	114W	15	SW1/4SE1/4	4.46					Hogarty Creek	
P35239.0D	07/02/2014	7/2/2014	Complete		SHELBY	PENNINGTON	PINE GROVE CREEK 9 WATER H		028N	114W	09	NE1/4NE1/4	4.46					Pine Grove Creek	
P35240.0D	07/02/2014	//2/2014			SHELBY				028N	114W	10	SE1/4NE1/4	4.46						
			Complete			PENNINGTON	PINE GROVE CREEK 10 WATER											Pine Grove Creek	
P35241.0D	07/02/2014		Complete		SHELBY	PENNINGTON	PINE GROVE CREEK 13 WATER		028N	114W	13	SW1/4SE1/4	4.46					Pine Grove Creek	
P35242.0D	07/02/2014		Complete		SHELBY	PENNINGTON	SOUTH FORK BEAVER CREEK 3		028N	114W	03	NW1/4NW1/4	4.46					South Fork Beaver C	
P35243.0D	07/02/2014		Complete		SHELBY	PENNINGTON	SOUTH FORK BEAVER CREEK 2		029N	114W	25	NE1/4SW1/4	4.46					Beaver Creek	
P35256.0D	07/28/2014		Complete	SUBLETTE COUNTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD & BF	R TEM	032N	113W	29	NW1/4NW1/4	1					Muddy Creek (4-29-:	
P35257.0D	07/28/2014		Complete	SUBLETTE COUNTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD & BE	R TEM	032N	111W	24	SW1/4NE1/4	1					Soap Hole Draw	
P35258.0D	07/28/2014		Complete	SUBLETTE COUNTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD & BE	R TEM	033N	110W	34	SE1/4SW1/4	1					Green River	
P202497.0V			Incomplete		CODY	RAZA	RAZA #1	DOM_GW	030N	112W	34	SW1/4NW1/4	25						
P35275.0D	08/25/2014		Complete		JAMES	PILON	DENBURY RESOURCES NO 1 W		029N	113W	14	NW1/4NW1/4	0.44					South Piney Creek	
P35276.0D	08/25/2014		Complete		JAMES	PILON	DENBURY RESOURCES NO 2 W		029N	113W	17	NW1/4SW1/4	0.44					Beaver Creek	
P35277.0D	08/25/2014		Complete	DENBURY ONSHORE LLC	JAMES	PILON	DENBURY RESOURCES NO 3 W		029N	113W	11	NW1/4SW1/4	0.44					Middle Piney Creek	
P202826.0V			Incomplete		LARRY	ABRAHAM	ABRAHAM #1	DOM GW	025N	112W	06	NE1/4SW1/4	25						
P35287.0D	09/26/2014		Complete		JOHN	PENTON	SUBLETTE COUNTY ROAD AND	-	020N	112W	03	NW1/4NW1/4	1					Muddy Creek (4-29-:	
				SUBLETTE COUNTY ROAD & BRIDGE	JOHN		SUBLETTE COUNTY ROAD AND			111W			1						
P35288.0D	09/26/2014		Complete			PENTON			028N		13	SW1/4SW1/4						Green River	
P35289.0D	09/26/2014		Complete	SUBLETTE COUNTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD AND		031N	113W	25	SE1/4SE1/4	1					Spring Creek (6-30-1	
P35290.0D	09/26/2014		Complete	SUBLETTE COUNTY ROAD AND BRIDGE	JOHN	PENTON	SUBLETTE COUNTY ROAD AND	I EIVI	031N	112W	32	NE1/4SE1/4	1					West Meadow Canyı	

		0	0	0	Stream		42.61761	-110.063	Ext
		0	0	0	Stream			-110.242	
	4 70	0	0	0	Stream			-110.206	
	1.78 1.78	0 0	0 0	0 0	Stream Stream		42.78717	-110.272	
	1.15	0	0	0	Stream		42.83923		
		0	0.96	0.96	Reservoir		42.83839	-110.297	Ext
		0	3.57		Reservoir		42.83722		
		0 0	0.68 0.19		Reservoir		42.83653		
		0	0.19	0.19 0	Reservoir Well		42.83847 42.53256		
		0	0	0	Well		42.58407		
		0	0	0	Well		42.53846	-110.117	Ext
		0	0	0	Well		42.53839		
		0 0	0 0	0 0	Well Well		42.53849 42.53845		
	0.056	0	0	0	Spring			-110.535	
	5.95	0	0	0	Stream		42.73144		
		7.37	4.86		Reservoir		42.72794		
.53		12.2	0		Reservoir			-110.027	
0		0	18.76 0	18.76	Reservoir Well	N	42.6769	-109.975 -110.16	EXT
	2.57	0	0	0	Stream			-110.115	
	1.1	0	0	0	Stream		42.73472	-110.016	Ext
.07		11.68	1.39		Reservoir			-110.246	
16		1.16	0 0		Reservoir Reservoir		42.73214 42.73111		
4		11.96 4	0	11.96 4	Reservoir		42.73111		
		0	0	0	Well		42.63083		
		0	0	0	Well			-109.961	
		0	0	0	Well			-110.197	
		0	0 0	0	Stream Well		42.55506 42.56158		
		0	0	0	Stream		42.29568		
		0	0	0	Well		42.26272		
		0	0	0	Well		42.53654		
		0	0	0	Well		42.51247		
		0 0	0 0	0	Well Well		42.51247 42.54169		
		0	0	0	Well		42.26148		
		0	0	0	Well		42.25434		
		0	0	0	Well			-110.197	
		0	0	0	Well			-110.192	
		0 0	0 0	0 0	Well Well			-110.197 -110.202	
		0	0	0	Well			-110.202	
		0	0	0	Well	Ν	42.25952	-110.201	S
		0	0	0	Well			-110.197	
		0	0	0	Well		42.26581		
	36.91	0 0	0 0	0 0	Well Stream		42.6744	-109.981	
	50.51	36.91	0	36.91	Reservoir		42.65503		
		0	0	0	Well		42.6743	-109.981	S
		0	0	0	Well		42.59375		
.1		0 0	0 2.1	0 2.1	Stream		42.86846	-109.98 -110.395	
.1		0	0	0	Reservoir Well		42.5544		
		0	0	0	Well		42.26574		
		0	0	0	Stream		42.3572	-110.35	S
		0	0	0	Stream			-110.359	
		0	0	0	Stream			-110.354	S
		0	0 0	0	Stream Stream		42.382 42.4071	-110.349 -110.372	5
		0	0	0	Stream		42.4336	-110.386	S
		0	0	0	Stream		42.4288	-110.367	S
		0	0	0	Stream		42.4082	-110.334	S
		0	0 0	0	Stream Stream		42.4468 42.4683	-110.381 -110.368	S
		0	0	0	Stream			-110.334	Ext
		0	0	0	Stream		42.74103	-110.016	Ext
		0	0	0	Stream		42.77956	-109.97	Ext
		0	0	0	Well		42.54512	-110.183	S
		0 0	0 0	0	Stream		42.5054	-110.276	S
		0	0	0	Stream Stream		42.4992 42.5117	-110.335 -110.278	5
		0	0	0	Well		42.26195		S
		0	0	0	Stream		42.6176	-110.063	Ext
		0	0	0	Stream		42.4044	-110.108	Ext
		0	0	0	Stream		42.63828		Ext
		0	0	0	Stream		42.629	-110.206	Ext

42.61761	-110.063	External
42.63828	-110.242	External
42.62897	-110.206	External
42.78717	-110.272	External
42.84039	-110.303	External
42.83923	-110.305	External
42.83839	-110.297 -110.292	External
42.83722	-110.292	External
42.83653 42.83847	-110.295	External External
42.63647	-110.296	SEO
42.58407	-110.088	External
42.53846	-110.117	External
42.53839	-110.117	SEO
42.53849	-110.117	External
42.53845	-110.117	SEO
42.61786	-110.535	External
42.73144	-110.064	External
42.72794	-110.058	External
42.727	-110.027	External
42.6769	-109.975	External
42.60602	-110.16	SEO
42.5442	-110.115	SEO
42.73472	-110.016	External
42.6315	-110.246	External
42.73214	-110.009	External
42.73111	-110.008	External
42.72744	-110.023	External
42.63083	-110.24	External
42.7778	-109.961	SEO
42.2579	-110.197	SEO
42.55506	-110.509	External
42.56158	-109.976	SEO
42.29568	-110.187	External
42.26272	-110.197 -110.083	SEO
42.53654	-110.083	SEO
42.51247 42.51247	-110.105	External SEO
42.54169	-110.103	SEO
42.26148	-110.202	SEO
42.25434	-110.202	SEO
42.25776	-110.197	SEO
42.2652	-110.192	SEO
42.25885	-110.197	SEO
42.25787	-110.202	SEO
42.25794	-110.202	SEO
42.25952	-110.201	SEO
42.26144	-110.197	SEO
42.26581	-110.192	SEO
42.6744	-109.981	SEO
42.66939	-110.236	External
42.65503	-110.217	External
42.6743	-109.981	SEO
42.59375	-110.053	External
42.86846	-109.98	External
42.5544	-110.395	External
42.57049	-110.107	SEO
42.26574	-110.197	SEO SEO
42.3572	-110.35	
42.3831 42.3702	-110.359 -110.354	SEO SEO
42.3702 42.382	-110.354 -110.349	SEO
42.382	-110.349	SEO
42.4336	-110.386	SEO
42.4350	-110.367	SEO
42.4288	-110.334	SEO
42.4468	-110.381	SEO
42.4683	-110.368	SEO
42.73692	-110.334	External
42.74103	-110.016	External
42.77956	-109.97	External
42.54512	-110.183	SEO
42.5054	-110.276	SEO
42.4992	-110.335	SEO
42.5117	-110.278	SEO
42.26195	-110.202	SEO
42.6176	-110.063	External
42.4044	-110.108	External
42.63828	-110.242	External
42.629	-110.206	External

#### District 11 Water Rights

													Total							Diversion Capacity							
													Flow(CFS)/		0		Depth Of		Total	at		Inactive		E a little of		hemical	
WR Number	Priority Date	Priority text	Summary WR Status	Company	First Name	Last Name	Facility Name	Uses	Twn	Rna	Sec	Qtr-Qtr	Appropriation GPM)	( Total depth (Ft)	StaticWater Level (Ft)	Well Log(Y/N)	Pump (Ft)		Capacity I (AF/Yr)	Headgate( CFS)	Capacity (AF)	Capacity R (AF)	eservoir (AF)	-	Supply Anal Type	alysis(Y/M )	Latitude Longitude By
P103147.0W	07/22/1996		Fully Adjudicated	oompany		Laot Hallo	BARRON NO. 1 WELL	DOM_GW	034N	112W	23	NW1/4NE1/4	7	165.00	95	N	140		(,,,,,,)	0.0,	0	0	0	Well	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N	42.90741 -110.18239 External
P110146.0W	05/15/1998		Complete	O BAR Y RANCH, LLC			ROTG #1	DOM_GW	037N	110W	32	NW1/4SW1/4	25	160.00	8.5						0	0	0	Well		N	43.13127 -110.08647 External
P114737.0W	03/25/1999		Cancelled		LARRY D	DOWNS	ONE WELL	DOM_GW	035N 034N	111W	15 23	SE1/4NE1/4	25 10	150.00	0	Y	0				0	0	0	Well Well			43.00529 -110.07952 External
P11995.0P P126122.0W	07/16/1962 06/19/2000			THE DOUBLE J RANCH LLC UNITED STATES FOREST SERVIC	TWAYNE	CLAYTON	PAT NO. 1 WELL WHISKEY GROVE HAND PUMP WELL #1	DOM_GW MIS	034N 038N	112W 110W	23 14	NW1/4NE1/4 NW1/4SW1/4	10	158.00 120.00	27	Y N	40				0	0	0	Well		Y	42.90726 -110.18423 External External
P146373.0W	08/16/2002		Cancelled		JAMES A.	HINDERLITER	HINDERLITER # 2	IRR_GW	035N	111W	26	SE1/4NW1/4	450	150.00	12	N	100				0	0	0	Well		N	42.97806 -110.07194 External
P150359.0W	03/07/2003		Fully Adjudicated				DOUBLE J NO. 1	MIS	034N	112W	23	NW1/4NE1/4	15	110.00	8	N	65				0	0	0	Well		N	42.90741 -110.18239 External
P157644.0W	04/09/2004		Complete		SHIRLEY	CILENSEK	WEBER #1	DOM_GW	035N 035N	111W 111W	15 15	SW1/4SE1/4	25 25	220.00 220.00	34 150	N	175 180				0	0	0	Well Well		N	42.99805 -110.08452 External
P158738.0W P158797.0W	05/03/2004 03/24/2004		Complete Fully Adjudicated		ERIC A AND LAURA A	MARINCIC	CILENSEK #2 T LAZY F NO. 2 WELL	DOM_GW IRR_GW	035N	111W	24	SW1/4SW1/4 NW1/4SE1/4	650	63.00	150	N	60				0	0	0	Well		N	42.99931 -110.09295 External 42.98726 -110.04471 External
P158835.0W	05/13/2004		Complete		JERRY	MCMILLEN	MCMILLEN I	DOM_GW	038N	110W	26	SW1/4SE1/4	25	120.00	53	N	100				0	0	0	Well		N	43.22412 -110.01825 External
P161451.0W	08/11/2004		Complete	RALPH WEST - WEST DEVELOPI	N		ASPEN RIDGE #13	DOM_GW	035N	113W	22	SE1/4SW1/4	10	100.00	30	N	90				0	0	0	Well		N	42.98276 -110.32696 External
P165379.0W P167350.0W	02/07/2005 04/27/2005		Complete Complete				MUSCATELLO NO. 1 WELL MG LAND AND LIVESTOCK LLC #1	DOM_GW; STK DOM_GW	038N 034N	110W 111W	36 27	SW1/4SE1/4 NE1/4SE1/4	10 25	160.00 100.00	35 4	N	120 60				0	0	0	Well Well		N	43.20967 -109.99586 External 42.88589 -110.07932 External
P167355.0W	04/27/2005		Complete				SCHUELER #1	DOM_GW	033N	111W	02	SW1/4SE1/4	25	140.00	54	N	120				0	0	0	Well		N	42.85328 -110.06455 External
P168120.0W	06/03/2005		Complete		RICHARD	LABRECQUE	LABRECQUE #3	DOM_GW	035N	111W	11	SW1/4NW1/4	12	125.00	50	Ν	100				0	0	0	Well		Ν	43.0191 -110.0762 External
P168443.0W	05/17/2005		Complete				MORELLI WELL #1	DOM_GW	039N	110W	36	NW1/4NW1/4	25	160.00	13	N	95				0	0	0	Well		N	43.30317 -110.00723 External
P168835.0W P169964.0W	07/01/2005 09/29/2005		Complete Complete				MG L & L #1 LLOYD #1	DOM_GW DOM_GW	034N 035N	111W 111W	27 03	SW1/4NW1/4 SE1/4NE1/4	25 25	120.00 220.00	42 103	N	100 145				0	0	0	Well Well		N	42.88943 -110.09253 External 43.035 -110.07889 External
P169994.0W	09/29/2005		Complete				GYPSUM CREEK BENCH #1	DOM_GW	026N	111W	27	NE1/4NW1/4	25	80.00	36	N	40				0	0	0	Well		N	42.21174 -110.02951 External
P170135.0W	09/23/2005		Complete	WYO STATE GAME & FISH DEP	Т.		BLACK BUTTE FEEDGROUND WELL #1	sтк	037N	110W	33	SE1/4SE1/4	2	120.00	54	N	80				0	0	0	Well		N	43.12933 -110.05113 External
P170218.0W	09/09/2005		Complete				ROCKING K ENTERPRISES	DOM_GW	035N	113W	27	SW1/4SW1/4	10	295.00	10	N	275				0	0	0	Well		N	42.96775 -110.33175 External
P170271.0W P173545.0W	10/07/2005 03/16/2006		Complete Complete		ERIC JAMES L AND DELTA A	WINTHERS	WINTHERS #1 MCCORMICKS DANIEL WELL #1	DOM_GW DOM_GW; STK	035N 033N	113W 111W	06 02	SE1/4SE1/4 NW1/4NW1/4	4 25	10.00 123.00	5	N	0 75				0	0	0	Spring Well		Y	43.02647 -110.3773 External External
P173856.0W	03/24/2006		Complete		WILLIAM E AND SUZANN		WILSON #1	DOM_GW	034N	111W	22	SE1/4SW1/4	18	200.00	90	N	175				0	0	0	Well		N	42.8979 -110.09025 External
P173870.0W	03/28/2006		Complete		PATRICK AND KATHY	DALY	DALY WELL	DOM_GW	035N	111W	11	SE1/4NW1/4	17	160.00	59	N	135				0	0	0	Well		N	43.01977 -110.06953 External
P174095.0W	04/10/2006		Complete		JODY R.	BOYENGER	BOYENGER 1	DOM_GW	035N	111W	11	NE1/4NW1/4	10	180.00	52	N	146				0	0	0	Well		N	43.02327 -110.07017 External
P174367.0W P174425.0W	04/19/2006 04/24/2006		Fully Adjudicated Complete	MOUNT OLIVET CEMETERY ASS	50		MOUNT OLIVET WELL NO. 2 YANISH 1	MIS DOM_GW	034N 035N	111W 111W	36 10	SW1/4SE1/4 SE1/4NE1/4	40 12	421.00 275.00	122 57	N	400 240				0	0	0	Well Well		N	42.86642 -110.04277 External 43.02105 -110.07925 External
P175245.0W	06/05/2006		Complete		DUSTIN	LEVITT	JUDD 64	DOM_GW	035N	111W	15	SE1/4SE1/4	25	77.00	18	N	67				0	0	0	Well		N	42.99806 -110.07962 External
P176542.0W	08/09/2006		Complete				NNRE LLC #1	DOM_GW	037N	111W	33	NE1/4SE1/4	25	135.00	15	N	107				0	0	0	Well		N	43.1303 -110.16825 External
P176678.0W	08/09/2006		Complete				MCGHEE #1	DOM_GW	034N	112W	06	NE1/4NE1/4	25	155.00	12	N	127				0	0	0	Well		N	42.9508 -110.25508 External
P178350.0W P179181.0W	10/30/2006 01/16/2007		Fully Adjudicated Complete	DELANEY FAMILY REVOCABLE I	IN		DELANEY NO. 2 WELL RANCH C WELL #1	MIS DOM_GW	037N 037N	111W 110W	32 34	NW1/4NE1/4 SE1/4NE1/4	25 8	40.00 200.00	7 110	N	30 190				0	0	0	Well Well		N	43.139 -110.19733 External 43.13595 -110.03187 External
P179187.0W	01/18/2007		Complete		MILES AND MELISSA	ANDERSON	ANDERSON #1	DOM_GW	035N	113W	28	NE1/4NE1/4	25	160.00	23	N	23				0	0	0	Well		N	42.97993 -110.33417 External
P179456.0W	02/05/2007		Complete	DOUBLE J RANCH, LLC			OLD STILL WELL	STK	034N	112W	17	NE1/4SW1/4	10	200.00	90	N	167				0	0	0	Well		Ν	42.91604 -110.2442 External
P179457.0W	02/05/2007		Complete	DOUBLE J RANCH, LLC		- TD A) //C	BAKER FIELD WELL	STK	034N	112W	24	NW1/4NW1/4	8	15.00	5	N	10				0	0	0	Well		N	42.90737 -110.17263 External
P181505.0W P181657.0W	05/24/2007 06/05/2007		Complete Complete	WYOMING GAME & FISH DEPT	STEPHEN R. AND BETTYJ	I. TRAVIS	JIM BRIDGER #6 FRANZ #1	DOM_GW STK	035N 036N	113W 112W	26 23	SW1/4NW1/4 NW1/4NE1/4	19 1	220.00 128.00	80 64	N	120 128				0	0	0	Well Well		N	42.9756 -110.3093 External 43.08043 -110.1838 External
P181796.0W	06/26/2007		Complete				GREEN RIVER RANCH LOT 34	DOM_GW	035N	111W	03	SW1/4SE1/4	25	140.00	53	N	127				0	0	0	Well		N	43.02823 -110.08385 External
P182157.0W	05/18/2007		Fully Adjudicated	USDI BUREAU OF LAND MANA	40		WARREN BRIDGE WELL	MIS	035N	111W	08	NE1/4SE1/4	13	65.00	13.5	N	32				0	0	0	Well		Ν	43.0161 -110.1188 External
P182164.0W	07/19/2007		Complete		CONNIE AND PERRY	BINNING	CB PB 1	DOM_GW	037N	110W	01	SW1/4SW1/4	25	100.00	20	N	60				0	0	0	Well		N	43.19963 -110.00876 External
P182683.0W P183025.0W	07/27/2007 08/14/2007		Complete Complete		WILLIAM AND SHELIA LISA	PRUETT GLENN	PRUETT #1 WET SPOT	DOM_GW DOM_GW	035N 034N	111W 112W	11 11	NE1/4NW1/4 NW1/4SW1/4	12 12	205.00 35.00	60 5	N Y	130 25				0	0	0	Well Well		N	43.02373 -110.06977 External 42.9286 -110.19413 External
P183200.0W	09/12/2007		Complete		SCOTT	GRAYSON	SIS #1	DOM_GW	035N	113W	28	NW1/4NE1/4	10	90.00	15	N	80				0	0	0	Well		N	42.9787 -110.3402 External
P183374.0W	09/24/2007		Complete				PEARSON #1	DOM_GW	035N	111W	11	NE1/4SW1/4	25	170.00	65	N	150				0	0	0	Well		Ν	43.01608 -110.06923 External
P183618.0W P82471.0W	10/22/2007 05/10/1990		Complete Fully Adjudicated		JOHN GEORGE AND CHERI	HILTON MCREYNOLDS	RENDEZVOUS RIDGE LOT 15 ROOKS NO. 4 WELL	DOM_GW DOM_GW	034N 037N	111W 111W	27 32	NE1/4NW1/4 NW1/4SE1/4	15 25	150.00 65.00	55 43	N	50 50				0	0	0	Well Well		N	42.89178 -110.0914 External 43.1313 -110.19514 External
P99164.0W	05/08/1990		Complete		GEORGE AND CHERI	WICKETNOLDS	SIMKINS #1	DOM_GW	037N	1110W	26	SW1/4SE1/4	12	220.00	45 75	IN	50				0	0	0	Well		N	43.14218 -110.01765 External
P10011.0R	10/05/1993	10/05/1993					NINTH PARALLEL RESERVOIR	FIS; STO	036N	111W	04	NE1/4NE1/4						Spring Creek (2-36-111)	130.68		130.68	0	130.68	Reservoir			43.12527 -110.09929 External
P10073.0R	11/15/1993	11/15/1993					WALKER RESERVOIR	IRR_SW	035N	111W	14	SE1/4SW1/4						East Forty Rod Creek	1.5		0	1.5		Reservoir			42.99806 -110.0697 External
P10481.0R P10846.0S	02/21/1997 01/16/1990	02/21/1997 01/16/1990			THOMAS FARRELL	BROWN ROOKS	BENT ROD BLUFF RESERVOIR RIM STOCK RESERVOIR	FIS; WL	034N 037N	111W 111W	18 32	SE1/4SW1/4 SW1/4NE1/4						Forty Rod Creek Rooks Draw	4.22 0.46		2.91	1.31 0.46		Reservoir Reservoir			42.91153 -110.14936 External 43.13487 -110.1951 External
P11305.0R	06/30/2000	6/30/2000				NOOKS	BUCK	CMU; FIS; WL	035N	111W	17	NW1/4NE1/4						Buck Slough Of The Gree	0.40		0			Reservoir			43.00894 -110.12376 External
P11544.0R	05/13/2003	05/13/2003	Complete				HEALY	FIS	034N	112W	14	SW1/4SE1/4						Horse Creek			2.84	1.56	4.4	Reservoir			42.90959 -110.18093 External
P11545.0R	05/13/2003	05/13/2003			544		YAHOO	FIS	034N	112W	23	NW1/4NE1/4						Horse Creek	0.07		0	4.18		Reservoir			42.90783 -110.18133 External
P11653.0S P11718.0S	10/07/1992 12/23/1992	10/07/1992 12/23/1992			DAN MARK W.	ANDREW CHAPMAN	ANDREW STOCK RESERVOIR CHAPMAN NO. 1 STOCK RESERVOIR		035N 035N	111W 113W	11 06	NW1/4SW1/4 NE1/4NE1/4						Andrew Drain Chapman Draw	0.37 0.63		0	0.37 0.63		Reservoir Reservoir			43.01619 -110.07454 External 43.03829 -110.37495 External
P11719.0S	12/23/1992	12/23/1992			MARK W.	CHAPMAN	CHAPMAN NO. 2 STOCK RESERVOIR		035N	113W	06	NE1/4NE1/4						Chapman Draw	0.62		0			Reservoir			43.03829 -110.37495 External
P11847.0S	12/08/1993	12/08/1993			GLENN	NAPIERSKIE	GLENN STOCK RESERVOIR		037N	111W	13	NE1/4NE1/4						Glenn Draw	1.24		0	0		Reservoir			43.18207 -110.11106 External
P11880.0R	11/07/2003	11/07/2003		O - Y RANCH, LLC			TRAIL RESERVOIR	FIS; WL	037N 037N	110W	28	SW1/4SW1/4						Little Twin Creek			0			Reservoir			43.14333 -110.06668 External
P11881.OR P11891.OR	11/07/2003 12/10/2003	11/07/2003 12/10/2003		O - Y RANCH, LLC			REFLECTION RESERVOIR STACEY RESERVOIR	FIS; WL FIS	037N 033N	110W 111W	29 03	NE1/4SE1/4 SW1/4SE1/4						Little Twin Creek Horse Creek			0	1.05 16.8		Reservoir Reservoir			43.14692 -110.07206 External 42.85326 -110.08422 External
P11909.0R	01/02/2004	01/02/2004		O BAR Y RANCH LLC.			SPRING BOX RESERVOIR	FIS; WL	037N	110W	30	NE1/4NE1/4						Spring Box Creek			1.72	2.08		Reservoir			43.15377 -110.08997 External
P12078.0S	07/08/1994	07/08/1994		BOB MOORE CONSTRUCTION	ROBERT	MOORE	MOORE STOCK RESERVOIR		033N	111W	01	NW1/4NW1/4						Green River	1.4		0	0		Reservoir			42.86385 -110.05475 External
P12432.0R P12529.0D	11/29/2005 06/25/1914	11/29/2005		HARBER INVESTMENTS LLC	EUGENE AND SHONA	SIEMS	HARBER NO. 1 FISH RESERVOIR DARROW DITCH	FIS	034N	111W 113W	34 04	NE1/4SE1/4 SW1/4SE1/4	20.74					Green River South Beaver Creek		-1	0	7.79 0		Reservoir Stream			42.87129 -110.07926 External 43.02901 -110.34261 External
P12534.0S	06/07/1914			QUARTER CIRCLE 5 RANCH	JACKSON	SCHWABACHER	DRESSLER CORRAL STOCK RESERVOIR	DOM_SW; IRR_SW	035N 036N	113W	04	NW1/4NE1/4	20.74					Miner Creek	0.01	-1	0	0.01		Reservoir			43.1244 -110.16277 External
P12538.0S		12/29/1995			G. SHANE	JONES	LAZY "J"	STO	035N	111W	27	NE1/4NE1/4						East Forty Rod Creek	3.1	3.1	0	3.1		Reservoir			42.97443 -110.08692 External
P12540.0S	06/09/1995	06/09/1995		QUARTER CIRCLE 5 RANCH	GORDON	SCHWABACHER	BEST PASTURE STOCK RESERVOIR		037N	111W	34	NW1/4NW1/4						Miner Creek	0.78		0	0		Reservoir			43.13871 -110.16551 External
P12648.0S					GARY	DAANE	RUNNING HORSE STOCK RESERVOIR		035N	113W	06	NE1/4SW1/4	4.20					Running Horse Draw Dry Fork South Beaver Cr	0.76		0.76	0	0.76	Reservoir			43.03113 -110.38481 External
P12665.0D P12666.0D	08/20/1914 08/20/1914	08/20/1914			GEO. GEO.	JENSEN JENSEN	COPENHAGEN DITCH SUPPLEMENTAL APPROPRIATION COPENHAGEN [		035N 035N	113W 113W	19 19	SW1/4SE1/4 SE1/4SE1/4	4.28					Spring			0	0	0	Stream Spring			42.98412 -110.38012 External 42.98401 -110.37494 External
P12678.0S							TODD	STO	034N	113W	06	NE1/4NE1/4						Lead Creek	2.03		0		2.03	Reservoir			42.95152 -110.37489 External
P12705.0R	11/30/2005	11/30/2005	Cancelled	M.G. LAND & LIVESTOCK	THOMAS	WORDEN	WORDEN NO.1 FISH RESERVOIR	FIS	034N	111W	27	NE1/4SE1/4						Failer Creek			0	0		Reservoir			42.88589 -110.07932 External
P12759.0R	10/02/2006	10/02/2006				ANDERCON	HARBER II RESERVOIR	FIS	034N	111W	34	NE1/4SE1/4						Green River	4.70		0			Reservoir			42.86983 -110.07989 External
P12830.0R P12883.0R	01/18/2007 02/22/2007	01/18/2007 02/22/2007			MILES AND MELISSA	ANDERSON	ANDERSON RESERVOIR PRAIRIE CREEK WATER HOLE RESERVOIR	FIS; WET; WL FIS	035N 034N	113W 111W	28 35	NE1/4NE1/4 SW1/4SW1/4						Pauly Draw Green River	4.72		0	4.72 4.06		Reservoir Reservoir			42.98024 -110.33531 External 42.86698 -110.07593 External
P13109.0R							NANTUCKET RESERVOIR	FIS	034N	112W	23	SE1/4NE1/4						Horse Creek			0	6.24		Reservoir			42.90381 -110.17757 External
P13205.0S	06/18/1999	06/18/1999	Complete		ELVIN	BOOTH	BOOTH #5 STOCK RESERVOIR	STO	035N	113W	28	NE1/4SW1/4						Booth Draw	0.32		0	0.32		Reservoir			42.97484 -110.34274 External
P14822.0S	12/07/1999	12/7/1999			ELVIN	воотн		STO STO	035N	111W	15 34	NW1/4NW1/4						Green River	0.32		0 0.32	8 0		Reservoir			43.00919 -110.09394 External
P15096.0S P15157.0D	06/16/2003 07/23/1918	06/16/2003 07/23/1918			GROVER	DRESSLAER	BOOTH #6 STOCK RESERVOIR DRESSLER DITCH	IRR SW	035N 037N	113W 111W	34 34	NW1/4NW1/4 SW1/4SE1/4	1.86					Wall Draw North Beaver Creek	0.52	5.242	0.32	0		Reservoir Stream			42.96702 -110.33253 External 43.12789 -110.15589 External
P18705.0D					L.W.	SARGENT	SARGENT DITCH (AS CHANGED TO YARGER NO. 1		034N	111W	27	SE1/4SW1/4	2.1					Green River		4	0	0		Stream			42.88309 -110.08954 External

Diversion

P1875.0D																		
		07/04/1898 Complete		JOHN	THOMPSON	THOMPSON AND KIRBEY DITCH	IRR_SW	034N	111W	25	SE1/4SE1/4	3.71	Failer Creek	0	0	0	Stream	42.88193 -110.04007 External
P1989.0D		10/20/1898 Complete		WILLIAM D.	LAFFERTY	LAFFERTY DITCH NO. 2		037N	110W	19	NE1/4SE1/4	1.64	Little Twin Creek	0		0	Stream	43.1606 -110.08956 External
P2780.0D		08/25/1900 Complete		THOMAS P AND SARAH		DANIEL DITCH		034N	111W	28	NE1/4SE1/4	4.64	Green River	-1 0		0	Stream	42.88628 -110.09794 External
P2791.0D		08/31/1900 Complete		ROBERT	OSBORN	OSBORN DITCH NO. 1	IRR_SW	039N	108W	20	SW1/4NW1/4	1.86	Goodwater Creek	0		0	Stream	43.33792 -109.8522 External
P27926.0D		07/27/1982 Complete				JENSEN NO. 1 DITCH		037N	110W	11	SW1/4SE1/4	1.05	Wagenfuher Creek	8.61 0	-	0	Stream	43.18537 -110.01882 External
P3132.0E		02/03/1915 Complete		EBER	DARROW		DM_SW; IRR_SW		113W	04	SW1/4SE1/4	3.22	South Beaver Creek	-1 0		0	Stream	43.02901 -110.34261 External
P31943.0D	10/06/1997	10/06/1997 Complete		THOMAS	RROWN	UPDYKE TURBINE	HYD	039N 034N	108W	19 18	NE1/4NW1/4	1.16 0.07	Lake Creek Draw	1.16 0 8.64 0		0	Stream	43.33892 -109.86611 External
P32880.0D		10/13/2000 Complete		THOMAS	BROWN	BENT ROD BLUFF DITCH	FTH; RES		111W		NW1/4SE1/4		Forty Rod Creek 4.22	8.64 0		0	Stream	42.91448 -110.14385 External
P3318.0D P33356.0D		07/24/1901 Complete		W.T.	THOMAS	THOMAS DITCH NO. 2	IRR_SW FTH	034N 037N	112W 110W	36 29	NW1/4SE1/4	0.06	Horse Creek	0.66 0		0	Stream Stream	42.87128 -110.16278 External
P33808.0D		07/08/2004 Cancelled 10/15/2007 Cancelled	TELETRACTORS, INC.			REFLECTION PIPELINE TELETRACTORS, INCBLM WATER HAUL	TEM	036N	110W	29	NE1/4SE1/4 SE1/4SE1/4	0	Little Twin Creek Green River	0.89 0	-	0	Stream	43.14581 -110.07183 External 43.07051 -110.07931 External
P3587.0E	02/14/1916	02/14/1916 Expired	TELETRACTORS, INC.	LEO L. AND GERTRUDE	C DAVED	FIRST ENLARGEMENT OF MAY A. REED DITCH NO.	IRR SW	034N	111W	14	SE1/4SE1/4	20.41	Horse Creek	20.412 0		0	Stream	42.91816 -110.1779 External
P4720.0R		08/31/1937 Cancelled		THORVAL	JENSEN		1 SW; IRR SW; S		068W	14	3E1/4INE1/4	20.41	Prairie Creek 540.65	20.412 0		0	Reservoir	44.7493 -104.96749 External
P492.0E		01/11/1900 Complete		GRACE A.	SNIDER	THE ENLARGEMENT OF Snider Ditch No. 1	1_3W, IKK_3W, 3	034N	112W	06	NW1/4SW1/4	3.96		-1 0	-	0	Stream	42.94451 -110.27327 External
P5044.0E		04/09/1934 Complete		L.W.	SARGENT	SARGENT ENLARGEMENT OF DANIEL DITCH		034N	112 W	03	NW1/4SE1/4	1.16	Horse Creek Green River	39.2 0		0	Stream	42.85857 -110.08426 External
P5203.0D		12/01/1902 Complete		ALEXANDER S.	MARSHALL	MARSHALL DITCH NO. 2	IRR SW	035N	110W	32	NW1/4NE1/4	1.76	Mud Creek	59.2 0	0	0	Stream	43.13772 -110.07598 External
P5397.0E	05/18/1945	05/18/1945 Complete		ELTON AND MYRA	COOLEY		IRR SW; STO	034N	110W	25	SE1/4SE1/4	1.70	Failer Creek	5.22 0		0	Stream	42.88193 -110.04007 External
P5400.0R		07/16/1934 Expired	SOUTH HORSE CREEK RESERVO		COOLLI		1_SW; IRR_SW; S	034N	111W	30	NW1/4SW1/4		South Fork Horse Creek 167.1	167		167.1	Reservoir	42.88738 -110.50877 External
P5456.0S		11/04/1965 Complete	MILLER LAND & LIVESTOCK			ANNE'S DRAW STOCK RESERVOIR	STO	034N	114W	30 17	SW1/4SW1/4		Anne's Draw Creek 6	107		9.42	Reservoir	43.08328 -110.25417 External
P5457.0S		11/04/1965 Complete	MILLER LAND & LIVESTOCK			MILLER NO. 1 STOCK RESERVOIR	STO	036N	112W	19	SW1/45E1/4		Camp Draw Creek 9.75	0		9.75	Reservoir	43.06917 -110.26243 External
P5480.0S		11/05/1965 Complete	MILLER LAND & LIVESTOCK			SHORT DRAW STOCK RESERVOIR	STO	036N	112W	17	SE1/4SW1/4		Short Draw Creek 3.23	0	3.23	3.23	Reservoir	43.08466 -110.24695 External
P5481.0S		11/10/1965 Complete	MILLER LAND & LIVESTOCK			SCHOOL #1 STOCK RESERVOIR	STO	036N	112W	16	SW1/4SW1/4		Pixley Creek 4.9	0		4.9	Reservoir	43.08503 -110.23342 External
P5482.0S		11/10/1965 Complete	MILLER LAND & LIVESTOCK			COW GULCH STOCK RESERVOIR	STO	036N	113W	36	NE1/4SE1/4		Cow Gulch Creek 3.45	0	3.45	3.45	Reservoir	43.04494 -110.27789 External
P5483.0S		11/10/1965 Complete	MILLER LAND & LIVESTOCK			BALL STOCK RESERVOIR	STO	036N	112W	20	SE1/4SE1/4		Pixley Creek 11	0	11	11	Reservoir	43.07028 -110.23687 External
P5485.0S		11/10/1965 Complete	MILLER LAND & LIVESTOCK CC			NEELEY STOCK RESERVOIR	STO	036N	112W	23	SE1/4SW1/4		Neeley Creek 4.9	0	4.9	4.9	Reservoir	43.07084 -110.18844 External
P5487.0S		11/15/1965 Complete	MILLER LAND & LIVESTOCK			CULBERTSON STOCK RESERVOIR	STO	036N	112W	11	NE1/4NW1/4		Culbertson Creek 3.95	0		3.95	Reservoir	43.11021 -110.18695 External
P5488.0S		11/19/1965 Complete		C.C.	FELTNER	LARRY NO. 1 STOCK RESERVOIR	STO	035N	111W	15	SE1/4NW1/4		Highland Draw 0.22	0		0.22	Reservoir	43.00497 -110.0897 External
P5489.0S		11/19/1965 Complete		KURT C.	FELTNER	FELTNER NO. 1 STOCK RESERVOIR	STO	035N	111W	25	SE1/4NW1/4		Antelope Draw 2.3	0	2.3	2.3	Reservoir	42.97655 -110.04986 External
P5491.0S		11/22/1965 Complete		MAX	BOROFF	HAY GULCH NO. 1 STOCK RESERVOIR	STO	036N	111W	19	NW1/4SE1/4		Hay Gulch 9.4	0	9.4	9.4	Reservoir	43.07446 -110.14307 External
P5492.0S		11/22/1965 Complete	ALBERT E SCHWABACHER EST	A1		HAY GULCH NO. 2 STOCK RESERVOIR	STO	036N	111W	18	NW1/4SE1/4		Hay Gulch 2.42	0		2.42	Reservoir	43.08772 -110.14277 External
P5493.0S		11/26/1965 Complete		C.C.	FELTNER	LYNN NO. 1 STOCK RESERVOIR	STO	035N	111W	25	NW1/4NW1/4		Agate Draw 0.66	0		0.66	Reservoir	42.97997 -110.05474 External
P5520.0D	06/06/1903	06/06/1903 Complete		MAY	REED	MAY A. REED DITCH NO. 1	IRR SW	034N	112W	14	SE1/4NE1/4	3.14	Horse Creek	0	0	0	Stream	42.91824 -110.17784 External
P5782.0S		12/21/1966 Complete		A.W.	TRAVELUTE	WALL DRAW STOCK RESERVOIR	STO	035N	113W	33	NE1/4NE1/4		Wall Draw 0.65	0	0.65	0.65	Reservoir	42.9662 -110.33384 External
P5783.0S		12/27/1966 Complete	FLYING A RANCH			FLYING A STOCK RESERVOIR	STO	037N	111W	13	SW1/4NE1/4		West Fork Little Twin Cre 9.19	0	9.19	9.19	Reservoir	43.17924 -110.11539 External
P6799.0E		12/08/1978 Complete	NEW FORK IRRIGATION DISTR	C FLOYD	BRIGGS	BALLOU-PLANK DITCH ENLARGEMENT OF Ballou [		037N	109W	19	SE1/4NE1/4	0	Boulder Creek	70.25 0		0	Stream	43.16327 -109.97704 External
P6849.0R		11/15/1965 Complete	WYO. STATE OFFICE OF LANDS			SCHOOL NO. 2 RESERVOIR	STO	036N	112W	16	SE1/4SE1/4		Trosper Creek 35.39	0	35.39	35.39	Reservoir	43.08387 -110.21602 External
P6953.0R	02/20/1967	2/20/1967 Complete				FLYING "A" NO. 2 RESERVOIR	REC; STO	037N	111W	13	NE1/4NW1/4		W. Frk Little Twin Creek 26.08	0	26.08	26.08	Reservoir	43.18135 -110.11922 External
P6954.0R	04/10/1967	04/10/1967 Complete		A	TRAVELUTE	TRAVELUTE RESERVOIR	FIS; STO	034N	111W	35	SW1/4SW1/4		Grass Creek 32.4	0	32.4	32.4	Reservoir	42.86637 -110.07346 External
P6.0F		Complete	WYOMING WATER DEVELOPM	IE		GREEN RIVER - INSTREAM FLOW SEGEMENT 1	ISF	035N	111W	09	NW1/4NW1/4		Green River	0	0	0	Stream	43.02267 -110.11395 External
P7097.0E	08/24/1993	08/24/1993 Complete				PRICE ENLARGEMENT OF Brome Ditch	IRR_SW	034N	111W	35	NW1/4NW1/4	0.585	Green River	40.9 0	0	0	Stream	42.87845 -110.07439 External
P7098.0E	08/24/1993	08/24/1993 Complete				PRICE ENLARGEMENT OF TODD DITCH	IRR_SW	033N	111W	01	NW1/4NE1/4	13.4	Horse Creek	40.9 0	0	0	Stream	42.86565 -110.04524 External
P721.0E	10/23/1901	10/23/1901 Complete		JOHN	THOMPSON	THOMPSON AND KIRBY DITCH ENLARGEMENT OF	IRR_SW	034N	111W	25	SE1/4SE1/4		Failer Creek	-1 0	0	0	Stream	42.88193 -110.04007 External
P7321.0S	08/09/1972	08/09/1972 Cancelled		HARVEY	STONE	BIG STONE STOCK RESERVOIR		035N	111W	23	SE1/4NW1/4		Stone Draw 9.38	0	0	0	Reservoir	42.99081 -110.0697 External
P7343.0E	12/07/1999	12/7/1999 Complete				VON ENLARGEMENT OF Canyon Ditch	RES	036N	111W	01	SW1/4SW1/4	0.88	Green River	123.12 0	0	0	Stream	43.11371 -110.05548 External
P7369.0E	05/13/2003	05/13/2003 Complete				HEALY ENLARGEMENT OF MAY A. REED DITCH NOFT	TH; IRR_SW; RES	034N	112W	14	SE1/4NE1/4	0.78	Horse Creek 8.58	111.96 0	0	0	Stream	42.91899 -110.17876 External
P7372.0S	09/15/1972	09/15/1972 Cancelled		HARVEY	STONE	STONE'S FORTY ROD STOCK RESERVOIR		035N	111W	23	SW1/4NW1/4		East Forty Rod Creek 17.2	0	0	0	Reservoir	42.99081 -110.07468 External
P7610.0E	12/19/2008	12/19/2008 Cancelled				THIRD ENLARGEMENT OF Sargent Ditch		035N	113W	19	SW1/4NE1/4	0.24	South Beaver Creek 25.23	11 0	0	0	Stream	42.99239 -110.38176 External
P7904.0S	09/03/1974	09/03/1974 Complete	BUREAU OF LAND MANAGEM	Eľ		RYE GRASS #220 STOCK RESERVOIR		034N	112W	33	SE1/4SE1/4		Wall Draw 1.93	0	1.93	1.93	Reservoir	42.86831 -110.21873 External
P7911.0S	09/03/1974	00/02/1074 Complete				COADUOLE #221 CTOCK DECEDVOID		034N	112W	21	a						Deservaia	42,0040, 440,22222, 5,1,
P7914.0S		09/03/1974 Complete	BUREAU OF LAND MANAGEM	Eľ		SOAPHOLE #221 STOCK RESERVOIR		03411	112 00		SW1/4SE1/4		Soap Holes Draw 1.54	0	1.54	1.54	Reservoir	42.8948 -110.22222 External
	09/03/1974	09/03/1974 Complete	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM			ONION CREEK #622 STOCK RESERVOIR		033N	112W	03	SW1/4SE1/4 SW1/4SE1/4		Soap Holes Draw 1.54 Radish Draw 2.26	0		1.54 2.26	Reservoir	42.8948 -110.22222 External 42.85259 -110.20317 External
P7915.0S				Eľ				033N 034N					Radish Draw2.26Soap Holes Draw1.09	-				
P7916.0S	09/03/1974 09/03/1974	09/03/1974 Complete 09/03/1974 Complete 09/03/1974 Complete	BUREAU OF LAND MANAGEM	ET ET		ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR		033N 034N 034N	112W	03 20 21	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4		Radish Draw 2.26	-	2.26 1.09	2.26	Reservoir Reservoir Reservoir	42.85259 -110.20317 External 42.90015 -110.24748 External 42.89522 -110.23147 External
P7916.0S P820.0E	09/03/1974 09/03/1974 04/26/1902	09/03/1974 Complete 09/03/1974 Complete 09/03/1974 Complete 04/26/1902 Complete	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EI EI J.M.	VANDERVORT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR	IRR_SW	033N 034N 034N 034N	112W 112W	03 20	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4		Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River	0 0 0 -1 0	2.26 1.09 1.75 0	2.26 1.09 1.75 0	Reservoir Reservoir	42.85259 -110.20317 External 42.90015 -110.24748 External
P7916.0S P820.0E P8899.0S	09/03/1974 09/03/1974 04/26/1902 10/13/1981	09/03/1974 Complete 09/03/1974 Complete 09/03/1974 Complete 04/26/1902 Complete 10/13/1981 Complete	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	er Er J.M. JAMES E.	DELANEY	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR	-	033N 034N 034N 034N 037N	112W 112W 112W 111W 111W	03 20 21 27 32	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4		Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     Delaney Draw     6.67	0 0 0 -1 0 6.6	2.26 1.09 1.75 0 57 0	2.26 1.09 1.75 0 6.67	Reservoir Reservoir Reservoir Stream Reservoir	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.23147         External           42.8852         -110.09406         External           43.13843         -110.19506         External
P7916.0S P820.0E P8899.0S P9988.0R	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993	09/03/1974 Complete 09/03/1974 Complete 09/03/1974 Complete 04/26/1902 Complete 10/13/1981 Complete 05/21/1993 Cancelled	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	er Er J.M. JAMES E. GLENN	DELANEY NAPIERSKIE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR	– FIS; WL	033N 034N 034N 034N 037N 037N	112W 112W 112W 111W 111W 111W	03 20 21 27 32 12	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4		Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     Delaney Draw     6.67       Corral Creek     3.01	-1 0 6.6 0	2.26           1.09           1.75           0           0           0           0           0           0           0           0           0           0           0	2.26 1.09 1.75 0 6.67 0	Reservoir Reservoir Stream Reservoir Reservoir	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.23147         External           42.88582         -110.09406         External           43.13843         -110.19506         External           43.18399         -110.19206         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993	09/03/1974 Complete 09/03/1974 Complete 09/03/1974 Complete 04/26/1902 Complete 10/13/1981 Complete 05/21/1993 Cancelled 08/18/1993 Complete	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN GLENN	DELANEY NAPIERSKIE NAPIERSKIE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR	FIS; WL FIS; WL	033N 034N 034N 034N 037N 037N 037N	112W 112W 112W 111W 111W 111W 111W	03 20 21 27 32 12 13	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SE1/4NE1/4		Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     Delaney Draw       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28	0 0 -1 0 6.6 9.1	2.26           1.09           1.75           0           57           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	2.26 1.09 1.75 0 6.67 0 9.12	Reservoir Reservoir Stream Reservoir Reservoir Reservoir	42.85259 -110.20317 External 42.90015 -110.24748 External 42.89522 -110.23147 External 42.88582 -110.09406 External 43.13843 -110.19506 External 43.13879 -110.10126 External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN GLENN JOHN	DELANEY NAPIERSKIE NAPIERSKIE VANDERVORT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH {ENL OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH	- FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 037N 034N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SE1/4NE1/4 SW1/4SE1/4	3.92	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     Delaney Draw       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River	-1 0 6.6 0	2.26           1.09           1.75           0           57           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	2.26 1.09 1.75 0 6.67 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Original	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03446         External           43.13843         -110.19506         External           43.13879         -110.019506         External           43.1727         -110.119506         External           43.1839         -110.10926         External           43.1831         -110.10926         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EI EI J.M. JAMES E. GLENN JOHN JOHN	DELANEY NAPIERSKIE NAPIERSKIE VANDERVORT JOHNSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH (ENL. OF] ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19	SW1/45E1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SE1/4NE1/4 SW1/4SE1/4 SW1/4SE1/4	2.28	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     0       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River       Green River	0 0 -1 0 6.6 9.1	2.26       1.09       1.75       0       67       0	2.26 1.09 1.75 0 6.67 0 9.12	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Original Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13849         -110.01926         External           43.1329         -110.11926         External           43.1321         -110.11926         External           43.2525         -110.08416         External           42.89245         -110.04306         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 05/27/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EF EF J.M. JAMES E. GLENN JOHN JOHN JOHN	DELANEY NAPIERSKIE NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH [ENL OF] ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4	2.28 2.28	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     0       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River       Green River       Green River	0 0 -1 0 6.6 9.1	2.26           1.09           1.75           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03147         External           43.18843         -110.19506         External           43.18849         -110.10926         External           43.1829         -110.11198         External           43.18215         -110.08416         External           43.28215         -110.1436         External           42.9046         -110.14331         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/027 CR CC19/023	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 04/26/1902 05/27/1903 05/27/1903 12/03/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           12/03/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOSEPH JOHN	DELANEY NAPIERSKIE NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VANDEC CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4SW1/4	2.28 2.28 4.52	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     6.67       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River     Green River       Green River     Green River       Green River     Green River       Green River     Green River	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13879         -110.019506         External           43.1727         -110.11198         External           42.88515         -110.04016         External           42.99406         -110.14336         External           42.99406         -110.14336         External           42.90406         -110.14336         External           42.9139         -110.15319         External
P7916.05 P820.0E P8899.05 P9988.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/028 CR CC19/030 CR CC19/032	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 05/27/1903 12/03/1903 07/01/1904	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           12/03/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN JOHN JOHN JOSEPH JOHN WILLIAM	DELANEY NAPIERSKIE NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR HORSE CREEK#18 STOCK RESERVOIR VAN DITCH {ENL OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 034N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4	2.28 2.28 4.52 1.77	Radish Draw       2.26         Soap Holes Draw       1.09         Soap Holes Draw       1.75         Green River       0         Delaney Draw       6.67         Corral Creek       3.01         Little Twin Creek       2.28         Green River       Green River	0 0 -1 0 6.6 9.1	2.26           1.09           1.75           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13843         -110.10926         External           43.13829         -110.10926         External           43.1927         -110.1198         External           42.89215         -110.08416         External           42.90406         -110.14336         External           42.90406         -110.14331         External           42.9104         -110.14331         External           42.9103         -110.12467         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/032 CR CC19/032 CR CC19/033	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 04/26/1902 05/27/1903 05/27/1903 05/27/1903 05/27/1904 07/01/1904	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1903         Cancelled           08/18/1993         Concelled           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/02/1904         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN JOHN JOHN JOHN JOHN WILLIAM JENKIN	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK #18 STOCK RESERVOIR VAN DITCH (ENL OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 034N 035N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4	2.28 2.28 4.52 1.77 3.28	Radish Draw       2.26         Soap Holes Draw       1.09         Soap Holes Draw       1.75         Green River       0         Delaney Draw       6.67         Corral Creek       3.01         Little Twin Creek       2.28         Green River       3	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Original Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.024748         External           43.13843         -110.0906         External           43.13843         -110.19506         External           43.13849         -110.01926         External           43.1329         -110.01926         External           43.1829         -110.01926         External           42.82515         -110.08416         External           42.90406         -110.14336         External           42.90406         -110.15319         External           42.9043         -110.15319         External           42.9043         -110.12431         External           42.9043         -110.12431         External           42.9043         -110.12431         External           42.9043         -110.12467         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/028 CR CC19/034	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 05/27/1903 12/03/1903 07/02/1904 02/02/1905	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           05/21/1993         Cancelled           05/21/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EF FF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOSEPH JOSEN JOSERT	DELANEY NAPIERSKIE VANDERSKIE JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF PAPE DITCH	- FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 037N 037N 037N 037N 034N 034N 034N 035N 035N 035N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29 29 32	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4	2.28 2.28 4.52 1.77 3.28 1.14	Radish Draw       2.26         Soap Holes Draw       1.09         Soap Holes Draw       1.75         Green River       0         Delaney Draw       6.67         Corral Creek       3.01         Little Twin Creek       2.28         Green River       6	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13879         -110.019506         External           43.13972         -110.11198         External           42.88215         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.14336         External           42.91139         -110.14331         External           42.97993         -110.12467         External           42.95814         -110.24267         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/030 CR CC19/033 CR CC19/034 CR CC19/035	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 05/27/1903 12/03/1903 07/02/1904 02/02/1905 02/02/1905	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Concelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/02/1903         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN JOHN JOHN JOHN JOHN WILLIAM JENKIN	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL OF }ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. PAPE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29 29 32 32	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57	Radish Draw       2.26         Soap Holes Draw       1.09         Soap Holes Draw       1.75         Green River       Delaney Draw         Delaney Draw       6.67         Corral Creek       3.01         Little Twin Creek       2.28         Green River       Green River	-1 0 -1 0 9.1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0           57           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13829         -110.01926         External           43.13927         -110.1198         External           42.88215         -110.04416         External           42.90406         -110.14336         External           42.9104         -110.14336         External           42.9119         -110.15319         External           42.9139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.24394         External
P7916.05 P820.0E P8899.05 P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/027 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC19/035 CR CC29/016	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 05/27/1903 05/27/1903 05/27/1903 05/27/1904 07/01/1904 07/02/1904 02/02/1905 07/02/1905	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1903         Cancelled           08/18/1903         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/02/1903         Fully Adjudicated           02/02/1904         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           07/02/1903         Fully Adjudicated           02/02/1905         Fully Adjudicated           07/02/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT WILLIAM	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK#18 STOCK RESERVOIR VAN DITCH (ENL OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH FREMONT DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 037N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29 32 29 32 32 34	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4NE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 SW1/4SE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57	Radish Draw       2.26         Soap Holes Draw       1.09         Soap Holes Draw       1.75         Green River       0         Delaney Draw       6.67         Corral Creek       3.01         Little Twin Creek       2.28         Green River       3.01         Green River       6         Green River       5         Green River <t< td=""><td>-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>2.26           1.09           1.75           0           0           67           0           67           0</td><td>2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream</td><td>42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13843         -110.10926         External           43.13843         -110.10926         External           43.13843         -110.10926         External           43.13845         -110.0416         External           42.8525         -110.04136         External           42.90406         -110.14336         External           42.9040         -110.14331         External           42.9104         -110.12437         External           42.91793         -110.12467         External           42.97993         -110.12467         External           42.95814         -110.12349         External           42.95814         -110.12349         External           42.86813         -110.12349         External           42.86773         -110.07928         External</td></t<>	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0           0           67           0           67           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13843         -110.10926         External           43.13843         -110.10926         External           43.13843         -110.10926         External           43.13845         -110.0416         External           42.8525         -110.04136         External           42.90406         -110.14336         External           42.9040         -110.14331         External           42.9104         -110.12437         External           42.91793         -110.12467         External           42.97993         -110.12467         External           42.95814         -110.12349         External           42.95814         -110.12349         External           42.86813         -110.12349         External           42.86773         -110.07928         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/022 CR CC19/028 CR CC19/032 CR CC19/033 CR CC19/034 CR CC19/034 CR CC19/034 CR CC19/034	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 05/27/1903 05/27/1903 05/27/1903 05/27/1904 07/02/1904 02/02/1905 02/02/1905 02/02/1903 08/03/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           05/21/1993         Cancelled           05/21/1993         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1903         Fully Adjudicated           02/02/1904         Fully Adjudicated           02/02/1905         Fully Adjudicated           03/03/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 19 18 29 29 32 32 32 34 25	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NE1/4NW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River     Green River       Green River     Spring Creek (25-36-112)	-1 0 -1 0 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26 1.09 1.09 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.8522         -110.24748         External           42.8522         -110.03406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13847         -110.1198         External           43.13849         -110.14316         External           42.80215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.15319         External           42.97933         -110.12467         External           42.97933         -110.24267         External           42.95814         -110.12339         External           42.95814         -110.12393         External           42.95811         -110.12394         External           42.95811         -110.12394         External           42.86773         -110.02394         External           42.95813         -110.012394         External           42.86773         -110.012394         External           43.06788         -110.01615
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/030 CR CC19/032 CR CC19/033 CR CC19/034 CR CC19/034 CR CC19/034 CR CC20/116 CR CC20/116	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 12/03/1903 07/02/1904 07/02/1904 02/02/1905 02/02/1905 02/02/1905 02/02/1903 12/03/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated           12/03/1903         Fully Adjudicated           12/03/1903         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM	EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES IDA	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VANDECKEK#18 STOCK RESERVOIR VANDITCH {ENL. OF} ENLARGEMENT OF VanDitcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ASPLEY-WOLF DITCH ENL. PAPE DITCH FREMONT DITCH SCOTT NO. 1 DITCH STOCKADE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 037N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 32 32 32 34 25 18	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4SW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57	Radish Draw     2.26       Soap Holes Draw     1.09       Soap Holes Draw     1.75       Green River     0       Delaney Draw     6.67       Corral Creek     3.01       Little Twin Creek     2.28       Green River     3.01       Green River     6       Green River     6       Green River     5	-1 0 -1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.07           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.89522         -110.24748         External           42.89522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13972         -110.11198         External           42.895215         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.12343         External           42.95811         -110.12347         External           42.95811         -110.12349         External           42.95811         -110.12349         External           42.95811         -110.12349         External           43.06778         110.07928         External           43.06768         -110.15316         External
P7916.0S P820.0E P8899.0S P9988.0R P9988.0R CR CC19/022 CR CC19/027 CR CC19/027 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC19/034 CR CC19/035 CR CC20/116 CR CC20/116 CR CC20/116 CR CC20/116	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 04/26/1902 05/27/1903 05/27/1903 05/27/1903 05/27/1903 07/01/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1903 08/03/1903 06/27/1906	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           03/1903         Fully Adjudicated           03/03/1903         Fully Adjudicated           06/27/1906         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR HORSE CREEK#18 STOCK RESERVOIR VAN DITCH {ENL OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N 035	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29 32 32 32 32 34 25 18 19	SW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4SW1/4 NW1/4SE1/4 NW1/4SE1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4SW1/4 NW1/4SW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green RiverDelaney Draw6.67Corral Creek3.01Little Twin Creek2.28Green RiverGreen River	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.75           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.03406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13839         -110.10926         External           43.13839         -110.10926         External           43.1392         -110.10926         External           42.90406         -110.14336         External           42.90406         -110.14336         External           42.9139         -110.12437         External           42.97993         -110.12467         External           42.95131         -110.12467         External           42.95814         -110.12439         External           42.86773         -110.07928         External           42.86773         -110.07928         External           42.9114         -110.15518         External
P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/022 CR CC19/028 CR CC19/032 CR CC19/033 CR CC19/033 CR CC19/033 CR CC19/035 CR CC20/116 CR CC20/116 CR CC20/116 CR CC20/116 CR CC26/402 CR CC26/402 CR CC26/403	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 05/27/1903 05/27/1903 05/27/1903 05/27/1904 07/02/1904 02/02/1904 02/02/1905 07/02/1903 12/03/1903 12/03/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1904         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1903         Fully Adjudicated           02/02/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           06/27/1904         Fully Adjudicated           06/27/1905         Fully Adjudicated           02/02/1906         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES IDA DAVID	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VANDEC CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR ENL. INIETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF DITCH ENL OF DONEVILLE DITCH STOCKADE DITCH STOCKADE DITCH ENL OF BONNEVILLE DITCH ENL OF BONNEVILLE DITCH ENL OF MONEVILLE DITCH ENL OF HEDIN AND SLATE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 037N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N 035	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 32 12 13 27 19 19 18 29 29 32 32 34 25 18 19 32 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 SW1/4SW1/4 NW1/4SW1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SU1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Coral Creek3.01Little Twin Creek2.28Green River5Green River6.67Green River6.67Green River5Green River5Green River6Green River6Green River6Green River6Green River6Green River6Green River6Green River5Green River6Green River6Gre	-1 0 -1 0 -1 0 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           0	2.26 1.09 1.75 0 6.67 0 9.12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.1198         External           42.80215         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12437         External           42.97993         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.86773         -110.012347         External           43.06788         -110.01615         External           43.06788         -110.16155         External           42.91141         -110.15316         External           42.92055         -110.00111         External
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P7916.0S P820.0E P8899.0S P9988.0R P9989.0R CR CC19/022 CR CC19/027 CR CC19/028 CR CC19/032 CR CC19/032 CR CC19/034 CR CC19/034 CR CC19/034 CR CC19/034 CR CC20/116 CR CC20/119 CR CC20/119 CR CC26/403 CR CC26/403 CR CC28/455	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 08/18/1993 04/26/1902 05/27/1903 12/03/1903 07/02/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1903 12/03/1903 12/03/1903	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           05/21/1993         Cancelled           05/21/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated           06/27/1904         Fully Adjudicated           06/27/1905         Fully Adjudicated           06/27/1906         Fully Adjudicated           08/31/1900         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES IDA DAVID ROBERT	DELANEY NAPIERSKIE VANDERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VANDEC CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF ADHEVITCH STOCKADE DITCH FREMONT DITCH STOCKADE DITCH STOCKADE DITCH ENL. OF BONNEVILLE DITCH OSBORN DITCH NO. 1	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N 035	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 29 29 32 32 32 34 25 18 19 32 25 18	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NE1/4SW1/4 SW1/4SW1/4 SW1/4SW1/4 SW1/4SW1/4 SW1/4SW1/4 SW1/4NW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River	-1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.09           0	$\begin{array}{c} 2.26\\ 1.09\\ 1.75\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13927         -110.1198         External           42.88515         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12467         External           42.95814         -110.2394         External           42.95811         -110.12393         External           42.95811         -110.12394         External           42.95811         -110.12394         External           42.95811         -110.12394         External           42.95811         -110.1515         External           42.9013         -110.15165         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.87265         -110.015118
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES IDA DAVID JF	DELANEY NAPIERSKIE VANDERVORT JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF DITCH ENL OF BONNEVILLE DITCH STOCKADE DITCH ENL OF BONNEVILLE DITCH ENL OF BONNEVILLE DITCH ENL OF BONNEVILLE DITCH ENL OF MONEVILLE DITCH ENL OF MONEVILLE DITCH ENL OF WONNEVILLE DITCH ENL OF WILHELM DITCH NO. 2	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N 035	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 19 18 29 29 32 32 34 25 18 19 32 20 19 32 20 19 9 07	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 SE1/4SE1/4 NW1/4SE1/4 SW1/4NW1/4 NW1/4SE1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Coral Creek3.01Little Twin Creek2.28Green River5Green River6.67Green River5Green River5Green River5Green River6Green River5Green River5Green River5Green River5Green River5Green River5Green River5Green River6Green River6GreenR	-1 0 -1 0 -1 0 9.1 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           0 </td <td><math display="block">\begin{array}{c} 2.26\\ 1.09\\ 1.75\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\</math></td> <td>Reservoir Reservoir Stream Reservoir Stream</td> <td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.03476         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13849         -110.01198         External           43.18392         -110.01198         External           42.90406         -110.14331         External           42.91139         -110.15319         External           42.97993         -110.12431         External           42.95814         -110.12333         External           42.95814         -110.12333         External           43.06788         -110.01615         External           43.06788         -110.15316         External           42.91141         -110.15316         External           42.9124         -110.15316         External           42.9133         -110.0111         External           42.9141         -110.15316         External           42.9126         -110.00111         External           42.92651         -110.0111</td>	$\begin{array}{c} 2.26\\ 1.09\\ 1.75\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	Reservoir Reservoir Stream Reservoir Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.03476         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13849         -110.01198         External           43.18392         -110.01198         External           42.90406         -110.14331         External           42.91139         -110.15319         External           42.97993         -110.12431         External           42.95814         -110.12333         External           42.95814         -110.12333         External           43.06788         -110.01615         External           43.06788         -110.15316         External           42.91141         -110.15316         External           42.9124         -110.15316         External           42.9133         -110.0111         External           42.9141         -110.15316         External           42.9126         -110.00111         External           42.92651         -110.0111
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT WILLIAM JAMES IDA DAVID DAVID J F ROBERT	DELANEY NAPIERSKIE VANDERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH ENL. OF WILHELM DITCH NO. 2 OSBORN DITCH NO. 2 ENL. OF PAPE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 035N 035N 035N 035	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 13 27 19 19 18 29 32 32 32 34 25 18 19 32 25 18 19 32 20 19 32 20 19 7 29	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NE1/4NW1/4 NE1/4NW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River	-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           0 </td <td><math display="block">\begin{array}{c} 2.26\\ 1.09\\ 1.75\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\</math></td> <td>Reservoir Reservoir Stream Reservoir Reservoir Stream</td> <td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13872         -110.01408         External           42.88515         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12467         External           42.95814         -110.12393         External           42.95811         -110.12393         External           42.95831         -110.12393         External           42.95841         -110.15316         External           42.95841         -110.15316         External           42.95851         -110.15316         External           42.95141         -110.15316         External           42.9255         -110.0111         External           42.33487         -109.84444         External           42.9013         -110.15118         External           42.9255         -110.01116</td>	$\begin{array}{c} 2.26\\ 1.09\\ 1.75\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	Reservoir Reservoir Stream Reservoir Reservoir Stream	42.85259         -110.20317         External           42.8522         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13872         -110.01408         External           42.88515         -110.08416         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12467         External           42.95814         -110.12393         External           42.95811         -110.12393         External           42.95831         -110.12393         External           42.95841         -110.15316         External           42.95841         -110.15316         External           42.95851         -110.15316         External           42.95141         -110.15316         External           42.9255         -110.0111         External           42.33487         -109.84444         External           42.9013         -110.15118         External           42.9255         -110.01116
P7916.0S P820.0E P8899.0S P9988.0R P9988.0R CR CC19/022 CR CC19/027 CR CC19/023 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC20/116 CR CC20/116 CR CC20/116 CR CC20/116 CR CC26/403 CR CC26/403 CR CC28/455 CR CC28/455 CR CC30/117 CR CC30/119 CR CC30/119 CR CC30/119 CR CC31/457	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 04/26/1902 05/27/1903 05/27/1903 05/27/1903 05/27/1903 12/03/1904 07/02/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1903 08/03/1903 06/27/1906 08/31/1900 08/24/1906 08/10/1907 06/27/1907 06/27/1907	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           05/21/1993         Cancelled           08/18/1993         Complete           04/26/1902         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1904         Fully Adjudicated           05/27/1905         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/03/1904         Fully Adjudicated           08/03/1905         Fully Adjudicated           08/03/1906         Fully Adjudicated           08/03/1907         Fully Adjudicated           08/31/1900         Fully Adjudicated           08/31/1900         Fully Adjudicated           08/24/1906         Fully Adjudicated           06/27/1907         Fully Adjudicate	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOSEPH JOSEPH JOSEPH JOSEPH JOSEPH JOSE WILLIAM VILLIAM JENKIN ROBERT DAVID J F ROBERT CHARLOTTE	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH ENL. OF WILHELM DITCH NO. 2 OSBORN DITCH NO. 2 ENL. OF PAPE DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green RiverDelaney DrawDelaney Draw6.67Corral Creek3.01Little Twin Creek2.28Green RiverGreen River	-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.09           0	2.26 1.09 1.75 0 6.67 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8562         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13829         -110.019506         External           43.13829         -110.01198         External           42.88512         -110.04316         External           42.98125         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.15319         External           42.97993         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.1239         External           42.95811         -110.1239         External           42.95811         -110.1239         External           42.95811         -110.12394         External           42.9513         -110.07928         External           42.9013         -110.15118         External           42.9013         -110.05118         External           42.9013         -110.05118
P7916.0S P820.0E P8899.0S P9988.0R P9988.0R CR CC19/022 CR CC19/027 CR CC19/023 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC20/116 CR CC20/116 CR CC20/116 CR CC20/116 CR CC26/403 CR CC26/403 CR CC28/455 CR CC28/455 CR CC30/117 CR CC30/119 CR CC30/119 CR CC30/119 CR CC31/457	09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 04/26/1902 05/27/1903 05/27/1903 05/27/1903 05/27/1903 12/03/1904 07/02/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1903 08/03/1903 06/27/1906 08/31/1900 08/24/1906 08/10/1907 06/27/1907 06/27/1907	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           10/13/1981         Complete           05/21/1993         Cancelled           08/18/1993         Concelled           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/01/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1903         Fully Adjudicated           02/02/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/03/1903         Fully Adjudicated           08/31/1900         Fully Adjudicated           08/31/1900         Fully Adjudicated           08/24/1906         Fully Adjudicated           08/24/1906         Fully Adjudicated           08/24/1907         Fully Adjudicated           08/24/1906         Fully Adjudicated	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOSEPH JOSEPH JOSEPH JOSEPH JOSEPH JOSE WILLIAM JAMES IDA DAVID TROBERT CHARLOTTE WILLIAM	DELANEY NAPIERSKIE VANDERVORT JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#17 STOCK RESERVOIR HORSE CREEK#18 STOCK RESERVOIR VAN DITCH {ENL OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF WILHELM DITCH NO. 2 OSBORN DITCH NO. 2 ENL. OF PAPE DITCH ENL. OF ENOS DITCH	FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 29 32 32 34 25 18 19 32 20 19 9 32 20 19 9 32 20 29 29 29 29 29 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4SE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green RiverDelaney Draw6.67Corral Creek3.01Little Urwin Creek2.28Green RiverGreen RiverMill CreekGreen RiverGreen RiverGreen RiverGreen RiverGreen RiverMill CreekGreen RiverGreen R		2.26           1.09           0 </td <td>2.26 1.09 1.75 0 0 0 0 0 0 0 0</td> <td>Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Original Stream</td> <td>42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.10926         External           43.13839         -110.09406         External           42.89512         -110.09416         External           42.89215         -110.04336         External           42.90406         -110.14336         External           42.9139         -110.1539         External           42.9139         -110.12467         External           42.95811         -110.12394         External           42.95811         -110.12467         External           42.95811         -110.15316         External           42.95811         -110.05128         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.93013         -110.15118         External           42.93021         -110.14846         External           42.93021         -110.14846</td>	2.26 1.09 1.75 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Reservoir Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Original Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.89522         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.10926         External           43.13839         -110.09406         External           42.89512         -110.09416         External           42.89215         -110.04336         External           42.90406         -110.14336         External           42.9139         -110.1539         External           42.9139         -110.12467         External           42.95811         -110.12394         External           42.95811         -110.12467         External           42.95811         -110.15316         External           42.95811         -110.05128         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.93013         -110.15118         External           42.93021         -110.14846         External           42.93021         -110.14846
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOHN JOHN WILLIAM JAMES IDA DAVID ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR UITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH ENL. OF ASHLEY-WOLF DITCH ENL OF PAPE DITCH STOCKADE DITCH ENL OF PAPE DITCH ENL OF BONNEVILLE DITCH ENL OF DITCH NO. 1 ENL OF BONNEVILLE DITCH ENL OF PAPE DITCH ENL OF APPE DITCH ENL OF APPE DITCH ENL OF APPE DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 13 17 19 19 18 29 32 32 32 32 32 34 25 18 19 32 20 19 9 07 29 32 29 29 32 29 17	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 SW1/4SW1/4 NW1/4SE1/4 SW1/4NW1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Corral Creek3.01Little Twin Creek2.28Green River6.67Green River6.67 <td< td=""><td>-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>2.26           1.09           0<!--</td--><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Stream</td><td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13972         -110.11198         External           42.8915         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97933         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.15316         External           42.9573         -110.01518         External           42.95743         -110.015316         External           42.9013         -110.15316         External           42.9255         -110.0111         External           42.9265         -110.0111         External           42.9214         -110.15316         External           42.92525         -110.0111         <t< td=""></t<></td></td></td<>	-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           0 </td <td>2.26 1.09 0 0 0 0 0 0 0 0</td> <td>Reservoir Reservoir Stream Reservoir Stream</td> <td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13972         -110.11198         External           42.8915         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97933         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.15316         External           42.9573         -110.01518         External           42.95743         -110.015316         External           42.9013         -110.15316         External           42.9255         -110.0111         External           42.9265         -110.0111         External           42.9214         -110.15316         External           42.92525         -110.0111         <t< td=""></t<></td>	2.26 1.09 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13972         -110.11198         External           42.8915         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97933         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.15316         External           42.9573         -110.01518         External           42.95743         -110.015316         External           42.9013         -110.15316         External           42.9255         -110.0111         External           42.9265         -110.0111         External           42.9214         -110.15316         External           42.92525         -110.0111 <t< td=""></t<>
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT WILLIAM DAVID JAMES IDA DAVID J F ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF VAN DITCH VAN DITCH {ENL. OF} ENLARGEMENT OF VAN DITCH DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF WILHELM DITCH NO. 2 OSBORN DITCH NO. 2 ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH	- FIS; WL FIS; WL IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 036N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 32 32 34 25 18 19 32 20 19 07 29 32 20 19 07 29 32 20 17 17	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SU1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NE1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River	-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           0 </td <td>2.26 1.09 0 0 0 0 0 0 0 0</td> <td>Reservoir Reservoir Stream</td> <td>42.85259         -110.20317         External           42.90015         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           43.13972         -110.1198         External           42.88515         -110.08416         External           42.90406         -110.14336         External           42.90406         -110.14336         External           42.90407         -110.14336         External           42.91139         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.12330         External           42.95811         -110.12340         External           42.9013         -110.0516         External           42.9013         -110.0516         External           42.8776         -110.05118         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.90261         -110.01486         <t< td=""></t<></td>	2.26 1.09 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           43.13972         -110.1198         External           42.88515         -110.08416         External           42.90406         -110.14336         External           42.90406         -110.14336         External           42.90407         -110.14336         External           42.91139         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.12330         External           42.95811         -110.12340         External           42.9013         -110.0516         External           42.9013         -110.0516         External           42.8776         -110.05118         External           42.9013         -110.15118         External           42.9013         -110.15118         External           42.90261         -110.01486 <t< td=""></t<>
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOSEPH JOSEPH JAMES IDA DAVID ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH WJ LIENA	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAPE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH ENL. OF ASHLEY-WOLF DITCH ENL OF PAPE DITCH ENL OF BONNEVILLE DITCH STOCKADE DITCH ENL OF BONNEVILLE DITCH ENL OF MULHELM DITCH NO. 1 ENL OF BONNEVILLE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF APEE DITCH ENL OF APEE DITCH ENL OF APEE DITCH ENL OF APEE DITCH ENL OF APEX DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 036N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 13 17 19 18 29 32 32 32 32 32 32 32 32 32 32 32 32 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Corral Creek3.01Little Twin Creek2.28Green RiverGreen River <td< td=""><td>-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>2.26           1.09           1.09           0</td><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Original Spring Stream Original Stream</td><td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           42.88515         -110.08416         External           42.89406         -110.14336         External           42.99139         -110.12437         External           42.97939         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.15316         External           42.95731         -110.12393         External           42.9563         -110.01516         External           42.9013         -110.15316         External           42.9256         -110.0111         External           42.92631         -10.15318         External           42.92631         -10.12486         External           43.30028         -10.98444         &lt;</td></td<>	-1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.26           1.09           1.09           0	2.26 1.09 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Stream Stream Stream Stream Stream Stream Stream Stream Stream Stream Original Spring Stream Original Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           42.88515         -110.08416         External           42.89406         -110.14336         External           42.99139         -110.12437         External           42.97939         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.15316         External           42.95731         -110.12393         External           42.9563         -110.01516         External           42.9013         -110.15316         External           42.9256         -110.0111         External           42.92631         -10.15318         External           42.92631         -10.12486         External           43.30028         -10.98444         <
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JAMES IDA DAVID ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH WILLIAM JOSEPH JOSEPH WILLIAM JOSEPH WJ LENA WILLIAM FRED RUBY	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON VILHELM OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAYNE PAYNE PAYNE PAYNE PAYNE PAYNE JORDAN JORDAN JORDAN	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF MONEVILLE DITCH ENL OF HEDIN AND SLATE DITCH OSBORN DITCH NO. 1 ENL OF BONNEVILLE DITCH ENL OF BONNEVILLE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF PAPE DITCH ENL OF APEX DITCH ENL OF DICKENSON DITCH NO. 1	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 13 27 19 19 18 29 32 32 32 32 32 32 32 32 32 32 32 32 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 SW1/4NE1/4 NW1/4SE1/4 SW1/4SE1/4 SW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Corral Creek3.01Little Twin Creek2.28Green River5Green River5Green River6Green Ri		2.26           1.09           1.09           0           0           37           0 <td< td=""><td>2.26 1.09 0.667 0 0 0 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Stream</td><td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.1198         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.15319         External           42.97993         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.12393         External           42.95673         -110.110384         External           42.9013         -110.15316         External           42.9013         -110.15316         External           42.9013         -110.15118         External           42.9013         -110.12486         External           43.3028         -110.12428</td></td<>	2.26 1.09 0.667 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Stream	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.1198         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.15319         External           42.97993         -110.12437         External           42.95814         -110.12393         External           42.95814         -110.12393         External           42.95813         -110.12393         External           42.95673         -110.110384         External           42.9013         -110.15316         External           42.9013         -110.15316         External           42.9013         -110.15118         External           42.9013         -110.12486         External           43.3028         -110.12428
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOSEPH WILLIAM PAVID ROBERT DAVID ROBERT DAVID ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH W J LENA WILLIAM FRED RUBY LENA WILLIAM	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN PAPE ENOS WARREN PAYNE PAPE KANNARD JORDAN JORDAN JORDAN GRAY BLEAMER	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH {ENL. OF} ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR LITLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF STOCKADE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF WILHELM DITCH NO. 2 OSBORN DITCH NO. 2 ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENL. OF DICKENSON DITCH NO. 1 ENL OF DI	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32 20 19 07 29 32 20 17 17 17 17 31 20 04 19	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SE1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NE1/4 SW1/4SW1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River		2.26           1.09           1.09           77           0           57           0 <t< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStreamReservoirReservoirReservoirStream</td><td>42.85259         -110.20317         External           42.90015         -110.24748         External           42.90522         -110.2147         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09206         External           43.13839         -110.01926         External           42.88512         -110.04316         External           42.90406         -110.14336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.12394         External           42.95811         -110.15136         External           42.9013         -110.07928         External           42.9013         -110.05118         External           42.9013         -110.05118         External           42.9021         -110.014846         External           42.9032         -10.9.84444         External           42.9033         -110.12039</td></t<>	2.26 1.09 0 0 0 0 0 0 0 0	ReservoirReservoirStreamReservoirReservoirReservoirStream	42.85259         -110.20317         External           42.90015         -110.24748         External           42.90522         -110.2147         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09206         External           43.13839         -110.01926         External           42.88512         -110.04316         External           42.90406         -110.14336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.97993         -110.12467         External           42.95811         -110.12394         External           42.95811         -110.15136         External           42.9013         -110.07928         External           42.9013         -110.05118         External           42.9013         -110.05118         External           42.9021         -110.014846         External           42.9032         -10.9.84444         External           42.9033         -110.12039
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JAMES IDA DAVID JF ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEN JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JAMES JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JAMES JF ROBERT JAMES JF ROBERT JOSEPH JOS</td><td>DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN PAYNE P</td><td>ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH UCANEY STOCK RESERVOIR CARALL RESERVOIR CORRALL RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL OF DONEVILLE DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF MONEVILLE DITCH ENL. OF HEDIN AND SLATE DITCH OSBORN DITCH NO. 1 ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH PAYNE-GOODEN DITCH</td><td>FIS; WL FIS; WL IRR_SW</td><td>033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034</td><td>112W 112W 111W 111W 111W 111W 111W 111W</td><td>03 20 21 27 32 13 27 19 19 18 29 32 32 32 32 32 32 32 32 32 32 32 32 32</td><td>SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 SW1/4NW1/4 SE1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NE1/4</td><td>2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24</td><td>Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Coral Creek3.01Little Twin Creek2.28Green River5Green River5Green River6Green Riv</td><td></td><td>2.26           1.09           1.75           0           37           0           <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Stream</td><td>42.85259         -110.20317         External           42.95252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12393         External           42.95811         -110.12393         External           43.06788         -110.16155         External           42.91141         -110.15316         External           42.91141         -110.15316         External           42.90621         -110.14846         External           42.90621         -110.14846         External           42.90534         -110.21238         External           43.00534         -110.12428</td></td<></td></tr<>	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	EF EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JAMES IDA DAVID JF ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEN JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JAMES JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JAMES JF ROBERT JAMES JF ROBERT JOSEPH JOS	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN PAYNE P	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH UCANEY STOCK RESERVOIR CARALL RESERVOIR CORRALL RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL OF DONEVILLE DITCH ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF MONEVILLE DITCH ENL. OF HEDIN AND SLATE DITCH OSBORN DITCH NO. 1 ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH PAYNE-GOODEN DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 13 27 19 19 18 29 32 32 32 32 32 32 32 32 32 32 32 32 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 SW1/4NW1/4 SE1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NW1/4 SW1/4NW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River6.67Coral Creek3.01Little Twin Creek2.28Green River5Green River5Green River6Green Riv		2.26           1.09           1.75           0           37           0 <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>Reservoir Reservoir Stream Reservoir Stream</td><td>42.85259         -110.20317         External           42.95252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12393         External           42.95811         -110.12393         External           43.06788         -110.16155         External           42.91141         -110.15316         External           42.91141         -110.15316         External           42.90621         -110.14846         External           42.90621         -110.14846         External           42.90534         -110.21238         External           43.00534         -110.12428</td></td<>	2.26 1.09 0 0 0 0 0 0 0 0	Reservoir Reservoir Stream Reservoir Stream	42.85259         -110.20317         External           42.95252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12393         External           42.95811         -110.12393         External           43.06788         -110.16155         External           42.91141         -110.15316         External           42.91141         -110.15316         External           42.90621         -110.14846         External           42.90621         -110.14846         External           42.90534         -110.21238         External           43.00534         -110.12428
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JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN JOHN JOSEPH JOSEPH JOSEPH JAMES IDA DAVID ROBERT DAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH WJ LENA WILLIAM WILLIAM FRED RUBY LENA WILLIAM JAMES JOSEPH	DELANEY NAPIERSKIE VANDERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN PAPE KANNARD JORDAN JORDAN JORDAN GRAY BLEAMER GOODEN HUSTON	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF Van Ditcl DELANEY STOCK RESERVOIR CORRALL RESERVOIR UITTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH STOCKADE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF BONNEVILLE DITCH STOCKADE DITCH FREMONT DITCH SCOTT NO. 1 DITCH STOCKADE DITCH ENL. OF BONNEVILLE DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL. OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH ENL. OF PICNSYLVANIA DITCH PAYNE-GOODEN DITCH	- FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 036N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 112W 111W 111W 111W 111W 111W	03 20 21 27 32 13 27 19 19 18 29 32 32 32 34 25 18 19 32 20 19 32 20 07 29 32 29 17 17 17 17 17 17 31 20 04 19 33 33	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 SE1/4SE1/4 SW1/4NW1/4 SW1/4SW1/4 NW1/4SE1/4 SW1/4NW1/4 NW1/4SE1/4 SW1/4NW1/4 NW1/4SE1/4 SW1/4NW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River75Delaney Draw6.67Corral Creek3.01Little Twin Creek2.28Green River		2.26           1.09           1.75           77           0 <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStreamReservoirReservoirReservoirStream<t< td=""><td>42.85259         -110.20317         External           42.95252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12437         External           42.95811         -110.12393         External           42.95811         -110.12393         External           42.95811         -110.15316         External           42.95811         -110.15316         External           42.9525         -110.0111         External           42.9013         -110.15118         External           42.92013         -110.15118         External           43.30228         109.84444         External           43.00534         -110.12428         External           43.00534         -110.12428</td></t<></td></td<>	2.26 1.09 0 0 0 0 0 0 0 0	ReservoirReservoirStreamReservoirReservoirReservoirStream <t< td=""><td>42.85259         -110.20317         External           42.95252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12437         External           42.95811         -110.12393         External           42.95811         -110.12393         External           42.95811         -110.15316         External           42.95811         -110.15316         External           42.9525         -110.0111         External           42.9013         -110.15118         External           42.92013         -110.15118         External           43.30228         109.84444         External           43.00534         -110.12428         External           43.00534         -110.12428</td></t<>	42.85259         -110.20317         External           42.95252         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12437         External           42.95811         -110.12393         External           42.95811         -110.12393         External           42.95811         -110.15316         External           42.95811         -110.15316         External           42.9525         -110.0111         External           42.9013         -110.15118         External           42.92013         -110.15118         External           43.30228         109.84444         External           43.00534         -110.12428         External           43.00534         -110.12428
P7916.0S P820.0E P8290.0S P9988.0R P9988.0R CR CC19/022 CR CC19/022 CR CC19/022 CR CC19/030 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC20/119 CR CC26/403 CR CC20/119 CR CC26/403 CR CC26/403 CR CC28/458 CR CC30/117 CR CC30/117 CR CC30/117 CR CC31/457 CR CC31/45	09/03/1974 09/03/1974 09/03/1974 04/26/1902 10/13/1981 05/21/1993 05/27/1903 05/27/1903 05/27/1903 07/01/1904 07/02/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1903 06/27/1906 08/31/1900 08/31/1907 11/30/1906 01/130/1906 05/07/1908 05/07/1908 05/07/1908 03/11/1911 12/19/1907 12/19/1907 12/2/1913 02/18/1916 11/22/1913 11/22/1913	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           01/31/1881         Complete           05/21/1993         Cancelled           05/21/1993         Cancelled           05/21/1993         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           06/27/1906         Fully Adjudicated           06/27/1907         Fully Adjudicated           06/27/1906         Fully Adjudicated           06/27/1907         Fully Adjudicated           07/1907         Fully Adjudicated           07/1907         Fully Adjudicated <td>BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ</td> <td>ET ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT DAVID T AVID SERT DAVID J F ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JENA WILLIAM FRED RUBY LENA WILLIAM FRED RUBY LENA</td> <td>DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAPE FANE PAPE KANNARD JORDAN JORDAN JORDAN JORDAN JORDAN GRAY BLEAMER GODDEN HUSTON PAYNE</td> <td>ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF SONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENL. OF DICKENSON DITCH ENL. OF PONSYLVANIA DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH</td> <td>FIS; WL FIS; WL IRR_SW</td> <td>033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034</td> <td>112W 112W 111W 111W 111W 111W 111W 111W</td> <td>03 20 21 27 32 12 13 27 19 19 18 29 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32 20 17 17 17 17 17 17 17 31 20 00 4 19 33 33 33</td> <td>SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4</td> <td>2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2 1</td> <td>Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River</td> <td></td> <td>2.26           1.09           1.09           77           0           <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStream<!--</td--><td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td></td></td<></td>	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	ET ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT DAVID T AVID SERT DAVID J F ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JENA WILLIAM FRED RUBY LENA WILLIAM FRED RUBY LENA	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAPE FANE PAPE KANNARD JORDAN JORDAN JORDAN JORDAN JORDAN GRAY BLEAMER GODDEN HUSTON PAYNE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF SONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENL. OF DICKENSON DITCH ENL. OF PONSYLVANIA DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32 20 17 17 17 17 17 17 17 31 20 00 4 19 33 33 33	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2 1	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River		2.26           1.09           1.09           77           0 <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStream<!--</td--><td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td></td></td<>	2.26 1.09 0 0 0 0 0 0 0 0	ReservoirReservoirStream </td <td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td>	42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428
P7916.0S P820.0E P8899.0S P9988.0R P9988.0R CR CC19/022 CR CC19/022 CR CC19/023 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC20/116 CR CC20/116 CR CC20/116 CR CC20/117 CR CC26/403 CR CC26/403 CR CC26/403 CR CC26/403 CR CC26/403 CR CC26/403 CR CC26/403 CR CC3/458 CR CC30/117 CR CC30/125 CR CC31/458 CR CC31/458 CR CC31/458 CR CC31/458 CR CC31/458 CR CC31/457 CR CC34/333 CR CC36/427 CR CC36/427 CR CC38/121 CR CC38/121 CR CC38/121 CR CC39/280 CR CC39/280 CR CC39/281 CR CC39/283	09/03/1974 09/03/1974 09/03/1974 01/13/1981 05/21/1993 05/27/1903 05/27/1903 05/27/1903 05/27/1903 05/27/1903 07/01/1904 07/02/1904 07/02/1905 02/02/1905 02/02/1905 07/02/1903 08/03/1903 08/03/1903 08/24/1906 08/13/1900 08/24/1906 08/14/1907 11/30/1906 11/30/1906 11/30/1906 11/30/1906 11/30/1906 11/30/1906 11/30/1907 12/19/1907 12/21/913 02/18/1916 11/22/1913 11/22/1913 11/22/1913	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           04/26/1902         Complete           04/26/1902         Fully Adjudicated           05/21/1903         Cancelled           08/18/1993         Concelled           05/21/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1905         Fully Adjudicated           02/02/1906         Fully Adjudicated           02/02/1907         Fully Adjudicated           06/27/1907         Fully Adjudicated           08/14/1906         Fully Adjudicated           08/12/1907         Fully Adjudicated           08/12/1907         Fully Adjudicated           08/12/1907         Fully Adjudicated           01/12/1907         Fully Adjudicated           01/130/1906         Fully Adjudicated           03/07/1907         Fulll	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	EF EF EF J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOSEPH JOHN WILLIAM JENKIN ROBERT DAVID JAVID JF ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JOSEPH WJ LENA WILLIAM JENA WILLIAM JOSEPH JOSEPH JOSEPH HARRY NETTIE	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN PAYNE PAYNE PAYNE BLEAMER GOODEN HUSTON PAYNE PAYNE PAYNE PAYNE PAYNE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH UELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF APAPE DITCH ENL. OF HEDIN AND SLATE DITCH OSBORN DITCH NO. 1 ENL. OF PAPE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENTCHSION PAYNE DITCH ENL. OF DICKENSON DITCH NO. 1 EXTENSION PAYNE DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 13 27 19 19 18 29 32 32 32 32 32 32 32 32 32 32 32 32 32	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4SW1/4 SE1/4SE1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4NE1/4 NW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 SW1/4NU1/4 NW1/4SU1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River3.01Little Twin Creek3.01Little Twin Creek2.28Green River5Green River5Gre		2.26           1.09           1.75           0           37           0 <td< td=""><td>2.26 1.09 1.75 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStreamReservoirReservoirReservoirStream<t< td=""><td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12407         External           42.95811         -110.12333         External           42.95811         -110.12334         External           43.06788         -110.16155         External           42.90141         -110.15316         External           42.90141         -110.15316         External           42.9021         -110.14846         External           42.90321         -110.14846         External           42.90321         -110.14846         External           43.00534         -110.12428</td></t<></td></td<>	2.26 1.09 1.75 0 0 0 0 0 0 0 0	ReservoirReservoirStreamReservoirReservoirReservoirStream <t< td=""><td>42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12407         External           42.95811         -110.12333         External           42.95811         -110.12334         External           43.06788         -110.16155         External           42.90141         -110.15316         External           42.90141         -110.15316         External           42.9021         -110.14846         External           42.90321         -110.14846         External           42.90321         -110.14846         External           43.00534         -110.12428</td></t<>	42.85259         -110.20317         External           42.85252         -110.24748         External           42.8522         -110.09406         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.13843         -110.19506         External           43.18392         -110.01436         External           42.88215         -110.08416         External           42.90406         -110.14331         External           42.91139         -110.12431         External           42.97993         -110.12407         External           42.95811         -110.12333         External           42.95811         -110.12334         External           43.06788         -110.16155         External           42.90141         -110.15316         External           42.90141         -110.15316         External           42.9021         -110.14846         External           42.90321         -110.14846         External           42.90321         -110.14846         External           43.00534         -110.12428
P7916.0S P820.0E P8290.0S P9988.0R P9988.0R CR CC19/022 CR CC19/022 CR CC19/022 CR CC19/030 CR CC19/030 CR CC19/033 CR CC19/033 CR CC19/033 CR CC20/119 CR CC26/403 CR CC20/119 CR CC26/403 CR CC26/403 CR CC28/458 CR CC30/117 CR CC30/117 CR CC30/117 CR CC31/457 CR CC31/45	09/03/1974 09/03/1974 09/03/1974 01/13/1981 05/21/1993 05/27/1903 05/27/1903 05/27/1903 05/27/1903 05/27/1903 07/01/1904 07/02/1904 07/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/02/1905 02/19/1906 02/19/1906 03/11/1901 11/30/1906 11/30/1906 11/30/1906 11/30/1906 11/30/1907 12/19/1907 12/21/913 02/18/1916 11/22/1913 11/22/1913 11/22/1913	09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           09/03/1974         Complete           04/26/1902         Complete           01/31/1881         Complete           05/21/1993         Cancelled           05/21/1993         Cancelled           05/21/1993         Fully Adjudicated           05/27/1903         Fully Adjudicated           05/27/1903         Fully Adjudicated           07/02/1904         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           07/02/1905         Fully Adjudicated           06/27/1906         Fully Adjudicated           06/27/1907         Fully Adjudicated           06/27/1906         Fully Adjudicated           06/27/1907         Fully Adjudicated           07/1907         Fully Adjudicated           07/1907         Fully Adjudicated <td>BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ</td> <td>ET ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT DAVID T AVID SERT DAVID J F ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JENA WILLIAM FRED RUBY LENA WILLIAM FRED RUBY LENA</td> <td>DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAPE FANE PAPE KANNARD JORDAN JORDAN JORDAN JORDAN JORDAN GRAY BLEAMER GODDEN HUSTON PAYNE</td> <td>ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF SONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENL. OF DICKENSON DITCH ENL. OF PONSYLVANIA DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH</td> <td>FIS; WL FIS; WL IRR_SW</td> <td>033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034</td> <td>112W 112W 111W 111W 111W 111W 111W 111W</td> <td>03 20 21 27 32 12 13 27 19 19 18 29 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32 20 17 17 17 17 17 17 17 31 20 00 4 19 33 33 33</td> <td>SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4</td> <td>2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2 1</td> <td>Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River</td> <td></td> <td>2.26           1.09           1.75           0           37           0           <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStream<!--</td--><td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td></td></td<></td>	BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM BUREAU OF LAND MANAGEM TARTER AND SCHWARTZ	ET ET ET ET J.M. JAMES E. GLENN GLENN JOHN JOHN JOHN JOHN JOHN WILLIAM JENKIN ROBERT DAVID T AVID SERT DAVID J F ROBERT CHARLOTTE WILLIAM JOSEPH JOSEPH JOSEPH JENA WILLIAM FRED RUBY LENA WILLIAM FRED RUBY LENA	DELANEY NAPIERSKIE VANDERVORT JOHNSTON JOHNSTON JOHNSTON MONTROSE WOLF DAVIS ALBERT PAPE SCOTT MCDONALD JOHNSTON OSBORN JOHNSTON WILHELM OSBORNE ALBERT ENOS WARREN WARREN PAPE FANE PAPE KANNARD JORDAN JORDAN JORDAN JORDAN JORDAN GRAY BLEAMER GODDEN HUSTON PAYNE	ONION CREEK #622 STOCK RESERVOIR HORSE CREEK#12 STOCK RESERVOIR VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCH VAN DITCH (ENL. OF) ENLARGEMENT OF VAN DITCI DELANEY STOCK RESERVOIR CORRALL RESERVOIR UTTLE TWIN RESERVOIR ENL. NINETY DITCH ENL. BONNEVILLE DITCH ENL. BONNEVILLE DITCH ENL. OF ASHLEY-WOLF DITCH ENL. OF SONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF BONNEVILLE DITCH ENL. OF PAPE DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF APEX DITCH ENL. OF DICKENSON DITCH NO. 1 ENL. OF DICKENSON DITCH ENL. OF PONSYLVANIA DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH PAYNE-GOODEN DITCH	FIS; WL FIS; WL IRR_SW	033N 034N 034N 034N 037N 037N 037N 034N 034N 034N 035N 035N 035N 035N 034N 034N 034N 034N 034N 034N 034N 034	112W 112W 111W 111W 111W 111W 111W 111W	03 20 21 27 32 12 13 27 19 19 18 29 29 29 32 32 32 34 25 18 19 32 20 19 07 29 32 20 17 17 17 17 17 17 17 31 20 00 4 19 33 33 33	SW1/4SE1/4 NE1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SE1/4SE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 SW1/4NE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SE1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 NW1/4SW1/4 SW1/4NE1/4	2.28 2.28 4.52 1.77 3.28 1.14 0.57 3.57 1.24 4.55 1 0.34 1.42 2.28 4.34 0.81 3.14 4.57 0.81 3.14 4.57 0.81 2.07 6.63 2.2 0.9 3.16 4.46 1 0.57 2.24 2.2 1	Radish Draw2.26Soap Holes Draw1.09Soap Holes Draw1.75Green River		2.26           1.09           1.75           0           37           0 <td< td=""><td>2.26 1.09 0 0 0 0 0 0 0 0</td><td>ReservoirReservoirStream<!--</td--><td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td></td></td<>	2.26 1.09 0 0 0 0 0 0 0 0	ReservoirReservoirStream </td <td>42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428</td>	42.85259         -110.20317         External           42.8522         -110.24748         External           42.8582         -110.09406         External           43.13843         -110.19506         External           43.13839         -110.09406         External           43.13839         -110.01906         External           42.8582         -110.04136         External           42.8215         -110.04336         External           42.90406         -110.14336         External           42.91139         -110.12437         External           42.97993         -110.12467         External           42.95811         -110.12339         External           42.95811         -110.12334         External           42.9013         -110.05165         External           42.9013         -110.05165         External           42.9013         -110.05118         External           42.90261         -110.014846         External           42.9032         -110.12435         External           43.00534         -110.12435         External           43.00534         -110.12428         External           43.00534         -110.12428

CR CC39/285	11/22/1913	11/22/1913	Fully Adjudicated		JAMES	GOODEN	PAYNE-GOODEN DITCH	IRR_SW	036N	112W	34	NW1/4SW1/4						Crooked Creek			
CR CC39/286	11/22/1913	11/22/1913	Fully Adjudicated		JOSEPH	HUSTON	PAYNE-GOODEN DITCH	IRR SW	036N	112W	34	NW1/4SW1/4	0					Crooked Creek			
CR CC39/287	11/22/1913		Fully Adjudicated		HARRY	PAYNE	PAYNE-GOODEN DITCH	IRR SW	036N	112W	34	NW1/4SW1/4	0					Crooked Creek			
CR CC39/288	11/22/1913		Fully Adjudicated		NETTIE	PAYNE	PAYNE-GOODEN DITCH	IRR SW	036N	112W	34	NW1/4SW1/4	0					Crooked Creek			
CR CC40/294	11/08/1916		Fully Adjudicated		J S AND B A	CRANOR	CRANOR DITCH	IRR SW	034N	113W	13	SE1/4SE1/4	1.85					Spring Creek (11-34-112)			
CR CC40/294					CF	WEBB		-			34	NE1/4NW1/4	1.85								
			Fully Adjudicated			WEBB	SUPPLEMENTAL DIVERSION OF SPRING CREEK D SUPPLEMENTAL DIVERSION OF SPRING CREEK D		035N	112W								Springs			
CR CC40/677			Fully Adjudicated		ISABELL				035N	112W	34	NE1/4NW1/4	2.22					Springs			
CR CC41/052			Fully Adjudicated		HELEN	HILES	HILES DITCH	DOM_SW; IRR_SW	037N	110W	19	SE1/4NE1/4	3.23					Little Twin Creek			
CR CC41/054	07/31/1908		Fully Adjudicated		LEANDER	SARGENT	ENL. MCCAULLY SARGENT DITCH	IRR_SW	035N	113W	17	SW1/4NW1/4	4.5					South Beaver Creek			
CR CC41/067	11/22/1913		Fully Adjudicated		Н.	BELL	PAYNE-GOODEN DITCH	IRR_SW	036N	112W	34	NW1/4SW1/4	0					Crooked Creek			
CR CC41/068	11/22/1913	11/22/1913	Fully Adjudicated		ΗT	BELL	PAYNE-GOODEN DITCH	IRR_SW	036N	112W	33	SW1/4NE1/4	2.28					Middle Beaver Creek			
CR CC41/227	06/01/1918	06/01/1918	Fully Adjudicated		LEROY	WILCOX	ENL. OF IRWIN DITCH NO. 1	IRR_SW	034N	113W	04	SW1/4SW1/4	4.57					Horse Creek			
CR CC42/405	01/18/1917	01/18/1917	Fully Adjudicated		ROY	CONNER	CONNER DITCH NO. 1	IRR_SW; STO	034N	113W	18	SW1/4NW1/4	1.26					Middle Fork Spring Creeł			
CR CC42/406	01/18/1917	01/18/1917	Fully Adjudicated	ESTATE OF HARRY E. CONNER			CONNER DITCH NO. 1	IRR_SW; STO	034N	113W	18	SW1/4NW1/4	0.84					Middle Fork Spring Creel			
CR CC44/416	07/29/1915	07/29/1915	Fully Adjudicated		LAURA	JEWETT	JEWETT NO. 2 DITCH	IRR_SW	034N	114W	26	NW1/4SE1/4	0.76					South Fork Horse Creek			
CR CC44/788	11/11/1915	11/11/1915	Fully Adjudicated		PEARL	SARGENT	ENL. OF SARGENT DITCH	IRR SW	035N	113W	19	SW1/4NE1/4	4.46					South Beaver Creek			
CR CC46/080	07/29/1915		Fully Adjudicated		LAURA	JEWETT	JEWETT NO. 2 DITCH	IRR_SW	034N	114W	26	NW1/4SE1/4	0.11					South Fork Horse Creek			
CR CC46/370	06/11/1925		Fully Adjudicated		JAMES	JENSEN	ENL. VAN DITCH	IRR SW	034N	111W	27	NE1/4SW1/4	3.14					Failer Creek			
CR CC47/701	11/14/1930			GREEN RIVER LAKE LODGE			GREEN RIVER LODGE PIPE LINE	IND_SW	039N	108W	31	NE1/4NW1/4	0.569					Hobson Creek			
CR CC58/358	07/01/1940		Fully Adjudicated				GREEN RIVER LAKE CAMPGROUND - WATER SUP	-	039N	108W	31	NE1/4NW1/4	0.123					Hobson Creek			
CR CC06/047	09/05/1901		Fully Adjudicated	USDAT OREST SERVICE	HUGH	MARTIN	ENL. TODD DITCH - GREEN RIVER DIVERSION	IRR_SW	034N	103W	35	NW1/4NW1/4	2.28					Green River			
					WILLIAM		ENL. SCOTT DITCH				29		0.76								
CR CC06/053	05/18/1903		Fully Adjudicated			SCOTT		IRR_SW	035N	111W		NE1/4SW1/4						Green River			
CR CC06/054	10/22/1903		Fully Adjudicated		GIBSON	BLACKWELL	ENL. OF DICKENSON DITCH NO. 1	IRR_SW	035N	111W	20	SE1/4NE1/4	3.71					Green River			
CR CC06/067	12/22/1900		Fully Adjudicated		SARAH	WOODS	ENL. SUTTON DITCH	IRR_SW	034N	110W	32	SW1/4SE1/4	1.81					Green River			
CR CC63/285	09/21/1900		Fully Adjudicated		MAX	BOROFF	ASHLEY-WOLF DITCH	IRR_SW	035N	111W	29	NW1/4NE1/4	3.84					Green River			
CR CC63/286	09/21/1900		Fully Adjudicated		LESTER	PAPE	ASHLEY-WOLF DITCH	IRR_SW	035N	111W	29	NW1/4NE1/4	3.92					Green River			
CR CC64/083	06/14/1954	06/14/1954	Fully Adjudicated		SNOOK	MOORE	MOORE NO. 1 DITCH	<pre>M_SW; IRR_SW; S</pre>	039N	110W	16	SE1/4NW1/4	0.63					Tepee Creek			
CR CC64/084	06/14/1954	06/14/1954	Fully Adjudicated		SNOOK	MOORE	MOORE NO. 2 DITCH	IM_SW; IRR_SW; S	039N	110W	16	SE1/4NW1/4	0.11					Tepee Creek			
CR CC64/085	06/14/1954	06/14/1954	Fully Adjudicated		SNOOK	MOORE	MOORE NO. 3 DITCH	M_SW; IRR_SW; S	039N	110W	16	SE1/4NW1/4	0.2					Tepee Creek			
CR CC64/086	06/14/1954	06/14/1954	Fully Adjudicated		SNOOK	MOORE	MOORE NO. 4 DITCH	M_SW; IRR_SW; S	039N	110W	16	NE1/4SW1/4	0.07					Tepee Creek			
CR CC64/408	10/09/1956		Fully Adjudicated		DELBERT	BALL	SAWYER DITCH	IRR_SW; STO	034N	113W	16	NE1/4NE1/4	3.43					South Channel North For			
CR CC65/414	04/02/1958		Fully Adjudicated		LAURA	THOMPSON	NEW COPENHAGEN DITCH	IRR_SW; STO	035N	113W	19	SW1/4SE1/4						Dry Fork South Beaver Cr			
CR CC69/522	10/24/1968		Fully Adjudicated		JOHN	SCHWABACHER	FLYING A DITCH	IRR SW	037N	111W	12	NW1/4SW1/4	0.54					Little Twin Creek			
CR CC69/523	10/24/1968		Fully Adjudicated		MAX	GARDENS	FLYING A DITCH	IRR SW	037N	111W	12	NW1/4SW1/4	2.58					Little Twin Creek			
CR CC07/035	05/07/1904		Fully Adjudicated		MARTINS	AKERS	AKERS DITCH	IRR SW	035N	111W	18	NW1/4SE1/4	2.01					Beaver Creek			
			Fully Adjudicated					-	033N 034N												
CR CC72/370	04/09/1934		, ,		ANTONE M AND EDITH F WILLIAM L AND BARBAR		SARGENT DITCH (AS CHANGED TO YARGER NO. :			111W	27	SE1/4SW1/4	2.02					Green River			
CR CC75/198	09/12/1901		Fully Adjudicated			(/ BAIN	HOWELL-BRECKON DITCH	IRR_SW	035N	113W	19	SE1/4NW1/4	2.29					South Beaver Creek			
CR CC75/361	03/25/1986		, ,	MILLER LAND AND LIVESTOCK			ENL. SCOTT DITCH	IRR_SW	035N	111W	29	NE1/4SW1/4	3.09					Green River			
CR CC75/374	07/18/1898			MILLER LAND AND LIVESTOCK	С		SCOTT DITCH	IRR_SW	035N	111W	29	NE1/4SW1/4	19.36					Green River			
CR CC79/167	03/17/1983	03/17/1983	Fully Adjudicated	USDA FOREST SERVICE			ROARING FORK DITCH	STO; WL	039N	109W	02	NW1/4SE1/4	1.6					Roaring Fork			
CR CC80/220	04/06/1992	04/06/1992	Fully Adjudicated		MARK AND MARGARET	JOHNSON	HIDDEN LAKE SUPPLY PIPELINE	FIS; RES	034N	113W	19	SE1/4NW1/4	4					Hidden Spring			
CR CC82/167	08/19/1941	08/19/1941	Fully Adjudicated	HULMAN AND COMPANY			ENL. OF ROSE DITCH	IRR_SW; STO	037N	109W	19	NW1/4NW1/4	0.24					Boulder Creek			
CR CC85/076	07/24/1901	07/24/1901	Fully Adjudicated	ROBERTS CATTLE COMPANY, IN	N PATRICIA	ROBERTS	THOMAS DITCH NO. 2, ACIPT THE ROBERTS DITC	CH IRR_SW	034N	112W	36	NE1/4SW1/4	6.15					Horse Creek			
CR CC85/151	07/24/1901	07/24/1901	Fully Adjudicated		PATRICIA	ROBERTS	THOMAS NO. 2 DITCH	IRR SW	034N	112W	36	NE1/4SW1/4	0.06					Horse Creek			
CR CR10/391	10/13/1981		Fully Adjudicated		JAMES	DELANEY	DELANEY STOCK RESERVOIR	STO	037N	111W	32	NW1/4NE1/4						Delaney Draw	6.67		
CR CR13/500	04/06/1992		Fully Adjudicated		MARK AND MARGARET	JOHNSON	HIDDEN LAKE RESERVOIR	FIS	034N	113W	19	NW1/4NE1/4						Estep Draw	9.3		
CR CR14/303	08/18/1993		Fully Adjudicated		GLEN	NAPIERSKIE	LITTLE TWIN RESERVOIR	FIS; WL	037N	111W	13	SE1/4NE1/4						Little Twin Creek	9.12		
CR CR16/190	06/28/2000		Fully Adjudicated		DEWEY AND SUSAN	CORHN	CORHN'S POND STOCK RESERVOIR	STO	035N	111W	22	SE1/4SE1/4						East Forty Rod Creek	3.92		
	07/26/1999				FLOYD	BRIGGS	BEAVER RIDGE STOCK RESERVOIR	STO	035N	113W	35	SW1/4NE1/4							5.52		
CR CR17/095			Fully Adjudicated	CRINIDSTONE CATTLE CO	FLOYD	BRIGGS												Beaver Ridge Draw			
CR CR18/139	11/13/2002			GRINDSTONE CATTLE CO.	<u>_</u>		DUKE POND STOCK RESERVOIR	STO	035N	113W	10	SW1/4SW1/4						Duke Creek	5.5		
CR CR03/492	11/10/1965			MILLER LAND AND LIVESTOCK (	С		NEELEY STOCK RESERVOIR	STO	036N	112W	23	SE1/4SW1/4	_					Neeley Creek	4.9		
CR UW13/037	06/19/2000			USDA FOREST SERVICE			WHISKEY GROVE HAND PUMP WELL NO. 1	MIS	038N	110W	14	NW1/4SW1/4	5								
P184522.0W	01/22/2008		Complete		BRIAN AND CHRISTINE	SICHTER	BIDYDANGA 1	DOM_GW; STK	035N	113W	14	SW1/4SW1/4	10	200.00	5	N	180				
P185974.0W	03/10/2008		Complete		DAVE AND LYNDA	WILLOUGHBY	WILLOUGHBY #1	DOM_GW	033N	111W	02	NW1/4NW1/4	25	100.00	5	N	70				
P184869.0W	01/24/2008		Fully Adjudicated	THE DOUBLE J RANCH LLC			ENL PAT NO. 1 WELL	DOM_GW; MIS	034N	112W	23	NW1/4NE1/4	0								
P184870.0W	01/24/2008		Fully Adjudicated	THE DOUBLE J RANCH LLC			ENL BARRON NO. 1 WELL	DOM_GW; MIS	034N	112W	23	NW1/4NE1/4	3								
P189213.0W	11/03/2008		Fully Adjudicated	DOUBLE J RANCH LLC			ENL DOUBLE J NO. 1 WELL	MIS	034N	112W	23	NW1/4NE1/4	0								
P186783.0W	05/13/2008		Fully Adjudicated	OFFICE OF STATE LANDS AND II	N		FIREHALL NO. 1 WELL	MIS	038N	110W	36	SE1/4NW1/4	75	277.00	13	N	182				
P187115.0W	06/23/2008		Complete		CONNIE AND RANDY	REED	ALLISON	DOM GW	034N	111W	25	SW1/4NE1/4	25	115.00	2	N	80				
P187238.0W	07/08/2008		Complete		BUCKY	BUCKENROTH	BUCKENROTH #1	DOM GW	035N	111W	17	NW1/4NE1/4	25	135.00	9.5	N	108				
P188056.0W	07/30/2008		Complete	PILOTAGE INC.			PILOTAGE INC. 1	DOM_GW	034N	111W	27	SE1/4NW1/4	25	95.00	45	N	40				
P189465.0W	12/23/2008		Fully Adjudicated		GEORGE AND CHERI	MCREYNOLDS	RIM STATION RV PARK NO. 1	MIS	037N	111W	33	NW1/4SE1/4	24	75.00	17	N	68				
P193283.0W	07/06/2010		Complete		QUINN AND MIREILLE	BERTAGNOLLI	BERTAGNOLLI WELL #1	DOM GW	038N	110W	35	SE1/4NE1/4	15	100.00	5	N	45				
P193857.0W	08/30/2010				JOHN	FANDEK	RED WILLOWS #2	DOM GW	037N	110W	24	SE1/4NE1/4	25	100.00	5		10				
			Incomplete					-			24										
P195809.0W	05/26/2011		Incomplete		JAY	BILYEU	BILYEU #1	DOM_GW	035N	113W		SW1/4SE1/4	25								
P195976.0W	06/15/2011		Incomplete		JACK	MOREY		DOM_GW	035N	111W	27	NE1/4NW1/4	25								
P196605.0W	08/26/2011		Fully Adjudicated		GEORGE AND CHERI	MCREYNOLDS	ENL ROOKS NO. 4 WELL	MIS	037N	111W	32	NW1/4SE1/4	0					Failes Carril			
CR CR19/036	03/29/2004		Fully Adjudicated		_		M G POND NO. 1 RESERVOIR	FIS	034N	111W	27	NE1/4SE1/4						Failer Creek			
CR CC89/216	08/01/1985			GEORGE AND PAMELA PECK RE			ENL. OF MIDDLE BUTTE PIPELINE	DOM_SW; STO	037N	110W	25	NW1/4NE1/4	0.001					Middle Butte Spring No.		0.116	
CR CR19/120	01/24/2007		Fully Adjudicated		HOMEY D. AND ANGELA		HOMEY SIEMS STOCK RESERVOIR	STO	035N	113W	13	SW1/4NW1/4						Meyer Creek	3.54		
CR CR19/121	08/21/2006		Fully Adjudicated		DREW AND TERESA	TANNEY	TANNEY RESERVOIR	FIS; WL	035N	113W	20	SE1/4SE1/4						Meadow Creek			
CR CC89/051	12/17/2004		Fully Adjudicated		DALE	JENSEN	DALE PIPELINE	FTH; IRR_SW; RES	037N	110W	11	SE1/4NW1/4	0.77					Dale Spring		0.5	
CR CR19/185	07/29/2002	07/29/2002	Fully Adjudicated	NAPIERSKIE FAMILY TRUST			VIRGINIAN RESERVOIR	FIS; WL	037N	111W	13	SE1/4NE1/4						Little Twin Creek	5.33		
P7690.0E	02/06/2012		Complete	DECKER CANNON FAMILY TRUS	S' KIM	CANNON	FIRST ENLARGEMENT OF OSBORN DITCH NO. 1	DOM_SW; STO	039N	108W	19	NE1/4NW1/4	0.06					Goodwater Creek		1.42	
CR CR19/038	12/17/2004	12/17/2004	Fully Adjudicated		DALE	JENSEN	JENSEN RESERVOIR	FIS; WL	037N	110W	12	SW1/4SW1/4						Green River	8.95		
CR CC05/089	05/01/1889		Fully Adjudicated		ESTATE	HARTLEY	HARTLEY DITCH	IRR_SW	034N	113W	05	NE1/4SE1/4	11.42					Horse Creek			
P197685.0W	03/23/2012		Incomplete		STEPHEN	WALLACE	WALLACE WELL	DOM_GW	034N	111W	22	SW1/4SW1/4	25								
P197850.0W	04/11/2012		Incomplete		JOE	DEBERNARDI	DEBERNARDI #1	DOM GW	038N	110W	36	SE1/4SE1/4	25								
P34671.0D	04/03/2012		Cancelled	SUBLETTE COUNTY ROAD & BR		PENTON	SUBLETTE COUNTY #1 HORSE CREEK PUMP	=	034N	113W	13	SE1/4SE1/4	1					Horse Creek		1	
CR CR19/037	08/01/2003			TIMBERLINE LODGE, INC.			TIMBERLINE RESERVOIR	FIS; STO	034N 035N	113W	06	NW1/4SW1/4	-					Running Horse Draw	10.83	-	
P198217.0W	06/15/2012				DAVID	GOODWIN	CLEAR WATER (1)	DOM_GW	035N 035N	113W 111W	22	NW1/45W1/4 NW1/4SE1/4	25					Manning HUISE DIdW	10.03		
			Incomplete		GREGG					111W 113W	22		25 25								
P198284.0W	06/22/2012		Incomplete		GREGG	STAGGS	GENNSTAGCO	DOM_GW	035N			NE1/4SE1/4									
CR UW15/215	07/16/1962			DOUBLE J RANCH, L.L.C.			PAT NO. 1 WELL	DOM_GW	034N	112W	23	NW1/4NE1/4	10								
CR UW15/216	07/22/1996		Complete	DOUBLE J RANCH, L.L.C.			BARRON NO. 1 WELL	DOM_GW	034N	112W	23	NW1/4NE1/4	7								
CR UW15/217	03/07/2003			DOUBLE J RANCH, L.L.C.	FD10 4 415 415 1		DOUBLE J NO. 1 WELL	MIS	034N	112W	23	NW1/4NE1/4	15								
CR UW15/218	03/24/2004		Fully Adjudicated		ERIC A. AND LAURA A.	MARINCIC	TLAZYF NO. 2 WELL	IRR_GW	035N	111W	24	NW1/4SE1/4	650								
CR UW15/219	04/19/2006			UPPER GREEN RIVER CEMETER	Y		MOUNT OLIVET WELL NO. 2	MIS	034N	111W	36	SW1/4SE1/4	40								
CR UW15/220			Fully Adjudicated	DOUBLE J RANCH, L.L.C.			ENL. PAT NO. 1 WELL	DOM_GW; MIS	034N	112W	23	NW1/4NE1/4	0								
	01/24/2008																				
CR UW15/221				DOUBLE J RANCH, L.L.C.			ENL. BARRON NO. 1 WELL	DOM_GW; MIS	034N	112W	23	NW1/4NE1/4	3								

0	0	0	Stream	Original		43 04416	-110.21166	Externa
0	0	0	Stream	Original			-110.21166	Externa
0	0	0	Stream	Original		43.04416	-110.21166	Externa
0	0	0	Stream	Original			-110.21166	Externa
0	0	0	Spring				-110.27477	Externa
0 0	0 0	0 0	Spring Spring	pplemen pplemen			-110.20726 -110.20726	Externa Externa
0	0	0	Stream	ppiemen			-110.20726	Externa
0	0	0	Stream	Original			-110.36872	External
0	0	0	Stream	Original			-110.21166	Externa
0	0	0	Stream	Original			-110.22354	Externa
0	0	0	Stream			42.94031	-110.34805	Externa
0	0	0	Spring	Original		42.91902	-110.38899	Externa
0	0	0	Spring	Original			-110.38899	Externa
0	0	0	Stream	Original		42.88622	-110.4185	Externa
0	0	0	Stream	Original			-110.38185	Externa
0 0	0 0	0 0	Stream Stream	Original		42.88621	-110.4185	Externa
0	0	0	Stream	Original			-110.08996 -109.86678	Externa Externa
0	0	0	Stream				-109.86688	External
0	0	0	Stream	Original			-110.07524	External
0	0	0	Stream	Original			-110.12915	Externa
0	0	0	Stream			42.99193	-110.12027	Externa
0	0	0	Stream	Original		42.86716	-110.00754	Externa
0	0	0	Stream				-110.12469	Externa
0	0	0	Stream				-110.12467	Externa
0	0	0	Stream	Original			-110.05803	Externa
0 0	0 0	0 0	Stream	Original Original			-110.05898 -110.05915	Externa Externa
0	0	0	Stream Stream	Original		43.34189 43.33944	-110.05915	Externa
0	0	0	Stream	Original			-110.33489	External
0	0	0	Stream	pplemen			-110.38023	Externa
0	0	0	Stream	Original			-110.12769	Externa
0	0	0	Stream	Original		43.19073	-110.12769	Externa
0	0	0	Stream			43.00307	-110.1444	Externa
0	0	0	Stream	Original			-110.08874	Externa
0	0	0	Stream	Original			-110.38254	Externa
0	0	0	Stream	Original			-110.12702	Externa
0 0	0	0 0	Stream	Original		42.97135	-110.12702 -109.89634	Externa Externa
0	0	0	Stream Spring	Original Reservoir			-1109.89034	Externa
0	0	0	Stream	pplemen			-109.98816	Externa
0	0	0	Stream	P.P			-110.16817	Externa
0	0	0	Stream				-110.16816	Externa
0	0	6.67	Reservoir	Original		43.13842	-110.19705	Externa
0	0	9.3	Reservoir	Original		42.90647	-110.38093	Externa
0	0	9.12	Reservoir	Original		43.17847		Externa
0	0	3.92	Reservoir	Original			-110.07958	Externa
0	0.67	0.67	Reservoir			42.96358	-110.3007	Externa
0 0	0 0	5.5 4.9	Reservoir	Original		43.01281 43.071	-110.33036 -110.18825	Externa Externa
0	0	4.9	Reservoir Well	Ungilia			-110.18825	Externa
0	0	0	Well		N	42.99677	-110.3105	Externa
0	0	0	Well		N	42.86525	-110.0724	SEO
0	0	0	Well			42.9074	-110.18239	Externa
0	0	0	Well			42.90729	-110.18241	Externa
0	0	0	Well				-110.18243	Externa
0	0	0	Well		N		-110.00139	Externa
0	0	0	Well		N	42.88835		SEO
0 0	0 0	0 0	Well Well		N N		-110.12472 -110.08912	Externa Externa
0	0	0	Well		N		-110.08912	Externa
0	0	0	Well		N		-110.01473	External
0	0	0	Well				-109.99284	Externa
0	0	0	Well			42.97065	-110.3398	SEO
0	0	0	Well			42.97988	-110.08875	SEO
0	0	0	Well				-110.19404	SEO
0	5	5	Reservoir				-110.07733	Externa
0	0	0	Spring			43.15307	-109.9978	Externa
0 2.67	3.54 0.4	3.54 3.07	Reservoir Reservoir				-110.29211 -110.35628	
0	0.4	0	Spring				-110.33628	
4.83	0.5	5.33	Reservoir			43.17694		Externa
0	0	0	Stream				-109.86383	Externa
0	0	8.95	Reservoir				-110.01014	Externa
0	0	0	Stream			42.9446	-110.3544	Externa
0	0	0	Well				-110.09411	SEO
0	0	0	Well			43.20783		SEO
0	0	0	Stream			42.9098	-110.2781	SEO
10.73	0.1	10.83	Reservoir				-110.38786	Externa
0 0	0 0	0 0	Well Well				-110.08447 -110.31739	SEO Externa
0	0	0	Well			42.98594		Externa
0	0	0	Well				-110.18381	
0	0	0	Well			42.9069	-110.18184	
0	0	0	Well				-110.04258	
0	0	0	Well			42.8664	-110.0427	Externa
0	0	0	Well			42.90784		Externa
0	0	0	Well			42.90587	-110.18381	Externa

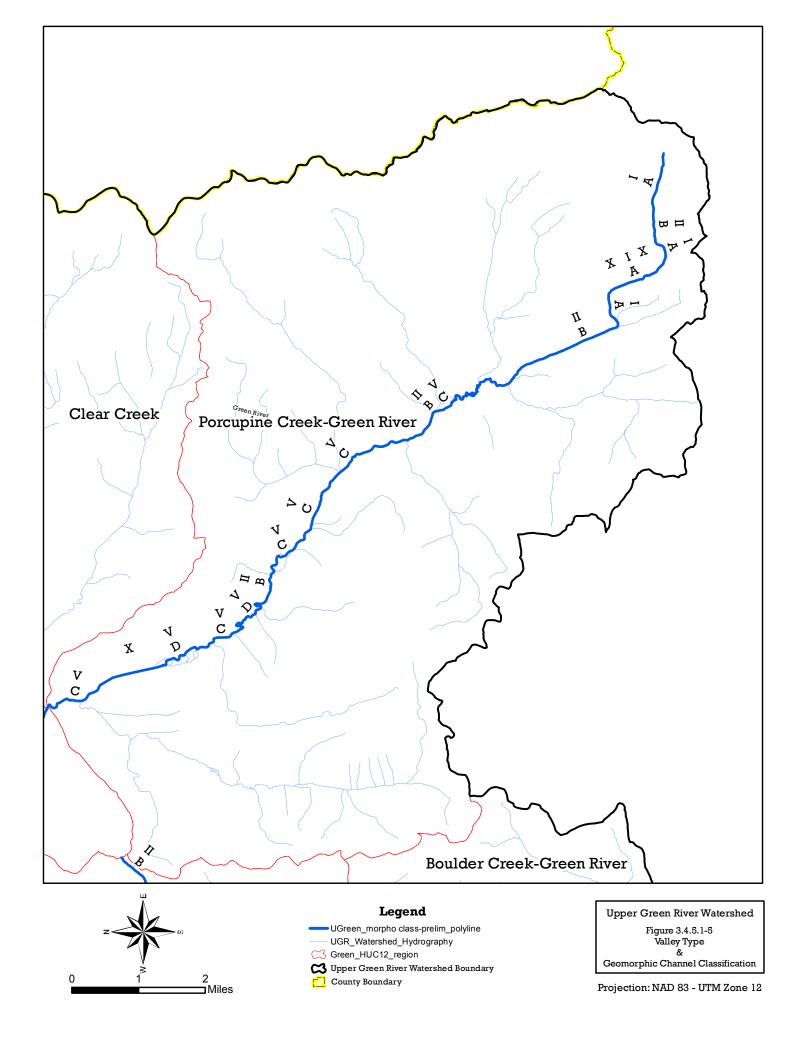
CR UW15/222	11/03/2008	Unadjudicate				ENL. DOUBLE J NO. 1 WELL	MIS	034N	112W	23	NW1/4NE1/4	0					0	0	0	V
CR UW18/089	05/18/2007		ited USDI BUREAU OF LAND MANA			WARREN BRIDGE WELL	MIS	035N	111W	08	NE1/4SE1/4	13					0	0	0	V
CR UW18/090	05/13/2008	Fully Adjudic	ited OFFICE OF STATE LANDS AND	IN		FIREHALL NO. 1 WEL	MIS	038N	110W	36	SE1/4NW1/4	75	182				0	0	0	v
P198718.0W	08/24/2012	Incomplete		MARK	BOWLING	BOWLING NO. 1	DOM_GW	035N	111W	03	NE1/4SW1/4	25					0	0	0	V
P198952.0W	09/20/2012	Incomplete	BARBARA C MCKINLEY REVOC	CAI		ENL. OF MCKINLEY NO. 1	DOM_GW; STK	033N	111W	02	SW1/4SE1/4	19					0	0	0	v
P199002.0W	10/08/2012	Incomplete		RICKEY AND DEANNA	LARSON	LARSON FIRST WELL	DOM_GW	035N	113W	28	SE1/4NW1/4	25					0	0	0	v
CR CC92/150	05/21/2009		ted BOARD OF SUBLETTE COUNTY			SUBLETTE COUNTY NO. 2 PRAIRIE CREEK PUMP	FIR; IND_SW	034N	111W	35	SE1/4SW1/4			Green River		1.78	0	0	0	Str
CR CC92/151	00,21,2000		ited WYOMING WATER DEVELOPN			GREEN RIVER - INSTREAM FLOW SEGMENT 1	ISF	035N	111W	09	NW1/4NW1/4			Green River		1.70	0	0	0	Str
	02/47/2000	, ,						034N								4 70	0	-	0	Str
CR CC92/160	02/17/2009		ted BOARD OF SUBLETTE COUNTY			SUBLETTE COUNTY NO. 10 FORTY ROD CREEK PL	· _		111W	08	NE1/4SW1/4			Forty Rod Creek		1.78	0	0	0	
CR CR21/036	11/07/2003	11/07/2003 Fully Adjudic				TRAIL RESERVOIR	FIS; WL	037N	110W	28	SW1/4SW1/4			Little Twin Creek			0	0.53	0.53	Rese
CR CR21/037	11/07/2003	11/07/2003 Fully Adjudic				REFLECTION RESERVOIR	FIS; WL	037N	110W	29	NE1/4SE1/4			Little Twin Creek			0	1.05	1.05	Rese
CR UW19/092	05/10/1990	Fully Adjudic	ited	GEORGE AND CHERI	MCREYNOLDS	ROOKS NO. 4 WELL	DOM_GW	037N	111W	32	NW1/4SE1/4	25					0	0	0	v
CR UW19/093	08/26/2011	Fully Adjudic	ited	GEORGE AND CHERI	MCREYNOLDS	ENL. ROOKS NO. 4 WELL	MIS	037N	111W	32	NW1/4SE1/4	0					0	0	0	V
CR UW19/094	12/23/2008	Fully Adjudic	ited	GEORGE AND CHERI	MCREYNOLDS	RIM STATION RV PARK NO. 1 WELL	MIS	037N	111W	32	NW1/4SE1/4	24	68				0	0	0	v
P34835.0D	07/23/2010	Complete	BRIDGER TETON NATIONAL FO	OR		STRAWBERRY SPRING	DOM_SW	036N	114W	34	SW1/4SE1/4	0.06		Strawberry Spring		0.056	0	0	0	Sp
P34856.0D	04/25/2011	Complete	BRIDGER TETON NATIONAL FO			MULE CREEK NO. 1 DIVERSION	DOM_SW; STO	035N	115W	35	SW1/4NW1/4	0.06		Trevi Draw		0.056	0	0	0	Str
CR UW20/053	10/30/2006		Ited DELANEY FAMILY REVOCABLE			DELANEY NO. 2 WELL	MIS	037N	111W	32	NW1/4NE1/4	25	30				0	0	0	v
P199780.0W	02/25/2013	Incomplete		JADE AND LACY	HICKS	HICKS #1	DOM GW; STK	035N	111W	23	SE1/4SE1/4	25	50				0	0	0	
					THERS											0.050	0	0	0	Str
P34907.0D	02/03/2012	Complete	BRIDGER TETON NATIONAL FO			BARTLETT CREEK NO. 1 PIPELINE	DOM_SW; STO	038N	111W	25	SW1/4NW1/4	0.06		Bartlett Creek		0.056	0	0	0	
P34908.0D	02/03/2012	Complete	BRIDGER TETON NATIONAL FO			TOSI SPRING NO. 1	DOM_SW	039N	111W	17	SW1/4NE1/4	0.06		Tosi Spring Creek		0.056	0	0	0	Str
P199910.0W	03/18/2013	Incomplete		PAUL	KNOPF	1/4 FORTY #1	DOM_GW	035N	111W	27	NW1/4NE1/4	25					0	0	0	W
P34936.0D	02/03/2012	Complete	BRIDGER TETON NATIONAL FO	OR		GREEN RIVER CAMP NO. 1 PUMP	DOM_SW; STO	039N	109W	14	NE1/4NW1/4	0.06		Green River		0.056	0	0	0	Str
P34938.0D	02/03/2012	Complete	BRIDGER TETON NATIONAL FO	OR		PORCUPINE CREEK NO. 1	DOM_SW	038N	108W	19	SE1/4NE1/4	0.06		Porcupine Creek		0.056	0	0	0	Str
P200085.0W	04/11/2013	Incomplete		DAVID	SCHWAB	SCHWAB1	DOM GW	034N	111W	27	SE1/4NW1/4	25					0	0	0	v
P14083.0R	04/08/2013	Incomplete	CARNEY RANCH COMPANY, IN	NC		MALLARD	:MU; STO; WET; W	037N	110W	22	SW1/4NW1/4			Mallard Draw	0.36		0.19	0.17	0.36	Rese
P14084.0R	04/08/2013	Incomplete	CARNEY RANCH COMPANY, IN			WIDGEON	:MU; STO; WET; W	037N	110W	22	SE1/4NW1/4			Widgeon Draw	0.73		0.41	0.32	0.73	Rese
P14085.0R	04/08/2013	Incomplete	CARNEY RANCH COMPANY, IN			GADWALL	:MU: STO: WET: W	037N	110W	22	NW1/4SE1/4			Gadwall Draw	1.3		0.66	0.64	1.3	Rese
			,				- / / /													
P14086.0R	04/08/2013	Incomplete	CARNEY RANCH COMPANY, IN			TEAL	WET; WL	037N	110W	22	SE1/4NE1/4			Teal Draw	0.31		0	0.31		Rese
P14087.0R	04/08/2013	Complete	CARNEY RANCH COMPANY, IN			SWAN	:MU; STO; WET; W	037N	110W	23	NW1/4NW1/4			Swan Draw	13.9		11.47	2.43	13.9	Rese
P14088.0R	04/08/2013	Complete	CARNEY RANCH COMPANY, IN	NC		SCAUP	:MU; STO; WET; W	037N	110W	23	NE1/4NW1/4			Scaup Draw	2.33		0	2.33	2.33	Rese
P14089.0R	04/08/2013	Complete	CARNEY RANCH COMPANY, IN	NC		RUDDY	CMU; WET; WL	037N	110W	23	NW1/4NE1/4			Ruddy Draw	0.37		0	0.37	0.37	Rese
P200139.0W	04/22/2013	Incomplete		JAY	BILYEU	BILYEU #2	DOM_GW	035N	113W	28	SW1/4SE1/4	25					0	0	0	v
P200396.0W	05/31/2013	Incomplete	HIGH PLAINS SERVICES, INC.			LABRECQUE #5	DOM_GW	035N	111W	15	NW1/4SE1/4	20					0	0	0	v
P35019.0D	06/06/2013	Complete	BRIDGER TETON NATIONAL FO	OP.		USFS BRIDGER TETON 13-2 WATER HAUL	TEM	039N	109W	04	SW1/4SW1/4	0.5		Green River			0	0	0	Str
P35020.0D	06/06/2013						TEM	034N	114W	04	SF1/4NF1/4						0	0	0	5u
		Complete	BRIDGER TETON NATIONAL FO			USFS BRIDGER TETON 13-9 WATER HAUL					,, .	0.5		Horse Creek (North Char			0	0	0	Str
P200439.0W	06/07/2013	Incomplete		ANDREW	MILLS	MILLS #1	DOM_GW	035N	113W	28	SW1/4NE1/4	20					0	0	0	N
P200590.0W	06/27/2013	Incomplete		KATHRYN	HEBERT	HEBERT-MESSAL #1	DOM_GW	035N	111W	27	NE1/4NE1/4	25					0	0	0	W
P200821.0W	08/05/2013	Incomplete		FRANK	KREJCI	KREJCI #1	DOM_GW	034N	114W	25	SE1/4NW1/4	25					0	0	0	v
P200822.0W	08/05/2013	Incomplete		FRANK	KREJCI	KREJCI #2	DOM_GW	034N	114W	25	SE1/4NW1/4	25					0	0	0	V
P200823.0W	08/05/2013	Incomplete		FRANK	KREJCI	KREJCI #3	DOM GW	034N	114W	25	SW1/4NE1/4	25					0	0	0	v
P35070.0D	08/23/2013	Incomplete	WILLIAM BLAIR & CO	DAVID	MABIE	SECTION 2 DRAW PUMP	DOM SW	037N	110W	02	NE1/4SW1/4	0.06		Section 2 Draw		0.056	0	0	0	Str
P14147.0R	08/23/2013	Incomplete	WILLIAM BLAIR & CO	DAVID	MARIE	SECTION 2 DRAW	FIS; STO	037N	110W	02	NE1/4SW1/4			Buffalo Wallow Draw	19.4		0	19.5	19.5	Rese
P200854.0W	08/12/2013	Incomplete	ALME CONCRETE CONSTRUCT	Britino	WADE	ALME #1	DOM_GW	035N	111W	24	SE1/4SW1/4	25		banalo wallow braw	10.4		0	0	0	W
	08/01/2013					WILHELM						25		Marcha Caral	5.9		0	0	5.9	
P19908.0S		Complete	RICHARD WILHELM AND NAN				STO	035N	113W	21	NE1/4SW1/4			Meadow Creek	5.9			5.9		Rese
CR CR22/300	10/02/2006	10/02/2006 Fully Adjudic				HARBER II	FIS	034N	111W	34	NE1/4SE1/4			Green River			0	16.32	16.32	Rese
CR CR22/317	01/11/2008	, ,	ted DOUBLE J RANCH LLC			NANTUCKET	FIS	034N	112W	23	SE1/4NE1/4			Horse Creek			0	6.24	6.24	Rese
P14212.0R	12/09/2013	Complete		JAMES AND DELTA	MCCORMICK	MCCORMICK	WL	033N	111W	02	NW1/4NW1/4			Green River			0	0.39	0.39	Rese
CR CC94/288	01/31/1989	01/31/1989 Fully Adjudic	ited	VELMA	ABEL	ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.03		Green River		123.12	0	0	0	Str
CR CC94/289	01/31/1989	01/31/1989 Fully Adjudic	ited	BILL M AND ROBERTA J	AIBROWN	ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.019		Green River		123.12	0	0	0	Str
CR CC94/290	01/31/1989	01/31/1989 Fully Adjudica	ited	JAMES A SR AND BETTY	JIDANIEL	ENL. CANYON DITCH	IRR SW	036N	111W	01	SW1/4SW1/4	0.03		Green River		123.12	0	0	0	Str
CR CC94/291	01/31/1989	01/31/1989 Fully Adjudic		KENNETH R AND EDITH		ENL. CANYON DITCH	IRR SW	036N	111W	01	SW1/4SW1/4	0.011		Green River		123.12	0	0	0	Str
CR CC94/292	01/31/1989	01/31/1989 Fully Adjudic		ALVIN GAYLE AND MAR		ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.056		Green River		123.12	0	0	0	Str
CR CC94/292 CR CC94/293	01/31/1989		ited RICK E AND BARBARA ANN JO			ENL. CANYON DITCH	IRR SW; STO	036N	111W	01	SW1/4SW1/4 SW1/4SW1/4	0.11		Green River		123.12	0	0	0	Str
																	0	-	0	
CR CC94/294	01/31/1989	01/31/1989 Fully Adjudic		JOSEPH A AND DONA W		ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.018		Green River		123.12	0	0	0	Str
CR CC94/295	01/31/1989	01/31/1989 Fully Adjudic		CRAIG A AND DONNA N		ENL. CANYON DITCH	IRR_SW; STO	036N	111W	01	SW1/4SW1/4	0.007		Green River		123.12	0	0	0	Str
CR CC94/296	01/31/1989	01/31/1989 Fully Adjudic	ited	KAREN EILEEN	LOYA	ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.035		Green River		123.12	0	0	0	Str
CR CC94/297	01/31/1989	01/31/1989 Fully Adjudica	ited	JAMES AND ZACHARY	MATHIEU	ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.006		Green River		123.12	0	0	0	Str
CR CC94/298	01/31/1989	01/31/1989 Fully Adjudic	ted NELSON FAMILY TRUST			ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.024		Green River		123.12	0	0	0	Str
CR CC94/299	01/31/1989	01/31/1989 Fully Adjudic		KAREN	RAYNES	ENL, CANYON DITCH	IRR SW	036N	111W	01	SW1/4SW1/4	0.014		Green River		123.12	0	0	0	Str
CR CC94/300	01/31/1989	01/31/1989 Fully Adjudic		MICHAEL	SCHANER	ENL. CANYON DITCH	IRR SW; STO	036N	111W	01	SW1/4SW1/4	0.033		Green River		123.12	0	0	0	Str
CR CC94/301	01/31/1989		ited JON FREDRIC SCHRADE AND J		JUNITER	ENL. CANYON DITCH	IRR_SW; STO	036N	111W	01	SW1/4SW1/4	0.1		Green River		123.12	0	0	0	Str
				<i>P</i> 11													0	0	0	Str
CR CC94/302	01/31/1989		Ited KIM O WHITE LIVING TRUST			ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.03		Green River		123.12	U	0	U	00
CR CC94/303	01/31/1989	01/31/1989 Fully Adjudic		SALLY	WONNACOTT	ENL. CANYON DITCH	IRR_SW	036N	111W	01	SW1/4SW1/4	0.03		Green River		123.12	υ	0	U	Str
CR CC94/304	02/19/2009		ited NELSON FAMILY TRUST			ENL. CANYON DITCH	RES	036N	111W	01	SW1/4SW1/4			Green River		123.12	0	0	0	Str
CR CR23/161	10/06/2004	10/06/2004 Fully Adjudic	ited NELSON FAMILY TRUST			WAPITI	WL	035N	111W	02	SW1/4SW1/4			Wapiti Spring	2.64		0	2.64	2.64	Rese
P202443.0W	07/16/2014	Incomplete		ERIC	WINTHERS	WINTHERS #2	DOM_GW	035N	113W	06	SE1/4SE1/4	25					0	0	0	Sp
P202752.0W	09/08/2014	Incomplete		WALTER	SCHMIDT	WALTERS LAND #1	DOM_GW	037N	110W	26	SE1/4SE1/4	25					0	0	0	Ŵ
P14291.0R	08/29/2014	Complete	M G LAND AND LIVESTOCK LL	C THOMAS	WORDEN	WORDEN NO. 1 FISH	FIS	034N	111W	27	NE1/4SE1/4			Failer Creek			0	2.07	2.07	Rese

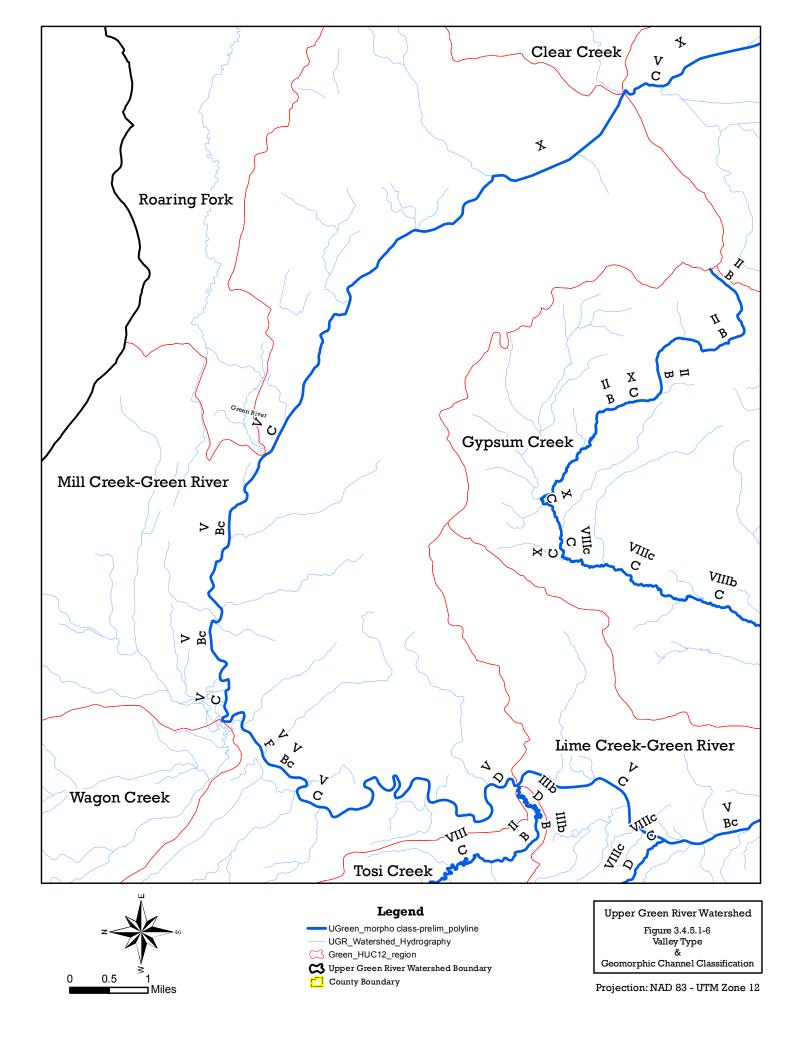
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
		1.78	0	0	0	Stream	
		1.70	0	0	0	Stream	
		1.78	0	0	0	Stream	
		1.78					
			0	0.53	0.53	Reservoir	
			0 0	1.05 0	1.05 0	Reservoir Well	
				-			
			0	0	0	Well	
			0	0	0	Well	
g		0.056	0	0	0	Spring	
		0.056	0	0	0	Stream	
			0	0	0	Well	
			0	0	0	Well	
		0.056	0	0	0	Stream	
(		0.056	0	0	0	Stream	
			0	0	0	Well	
		0.056	0	0	0	Stream	
		0.056	0	0	0	Stream	
			0	0	0	Well	
	0.36		0.19	0.17	0.36	Reservoir	
	0.73		0.41	0.32	0.73	Reservoir	
	1.3		0.66	0.64	1.3	Reservoir	
	0.31		0	0.31	0.31	Reservoir	
	13.9		11.47	2.43	13.9	Reservoir	
	2.33		0	2.33	2.33	Reservoir	
	0.37		0	0.37	0.37	Reservoir	
	0.57		0	0	0.57	Well	
			0	0	0	Well	
			0	0	0	Stream	
			0	0	0		
rth Char						Stream	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
			0	0	0	Well	
		0.056	0	0	0	Stream	
Draw	19.4		0	19.5	19.5	Reservoir	
			0	0	0	Well	
	5.9		0	5.9	5.9	Reservoir	
			0	16.32	16.32	Reservoir	
			0	6.24	6.24	Reservoir	
			0	0.39	0.39	Reservoir	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
		123.12	0	0	0	Stream	
	2.64		0	2.64	2.64	Reservoir	
			0	0	0	Spring	
			0	0	0	Well	
			0	2.07	2.07	Reservoir	

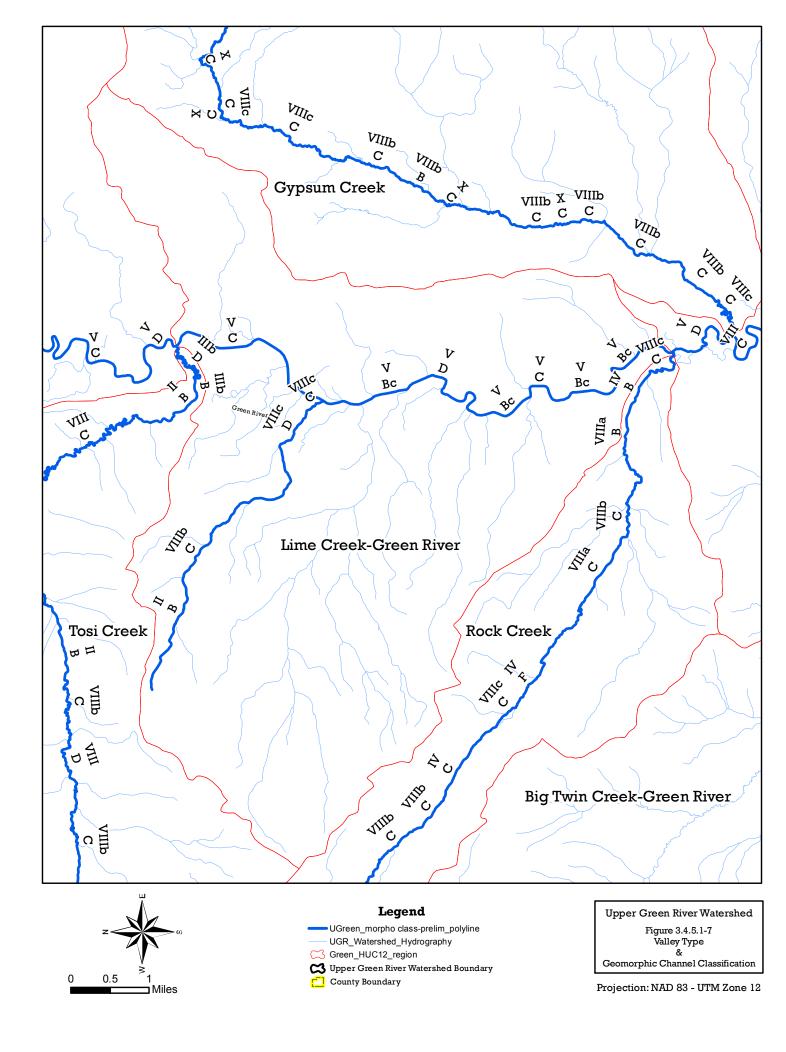
42 0000		<b>F</b> 1
42.9069 43.01606	-110.18184 -110.1189	External External
43.21546	-110.00247	External
43.03014	-110.08922	SEO
42.85248	-110.06511	SEO
42.97626	-110.3452	SEO
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43.02265	-110.11398	External
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43.1313	-110.19514	External
43.13125	-110.19529	SEO
43.13128	-110.19524	External
43.0426	-110.43781	External
42.96379 43.1384	-110.54454 -110.19514	External External
42.98306	-110.19514	SEO
43.22964	-110.1238	External
43.34417	-110.19507	External
42.97962	-110.08355	SEO
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43.16406	-110.04239	External
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43.16656	-110.02672	External
43.16836	-110.02197	External
43.16606	-110.01992	External
42.96899 43.00322	-110.34018 -110.08356	SEO External
43.36369	-110.08556	External
42.9465	-110.396	External
42.97609	-110.34022	SEO
42.97989	-110.07956	External
42.88969	-110.4015	External
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42.89	-110.40108	External
43.205	-110.02111	External
43.205	-110.02111	External
42.98369	-110.04936	External
42.98722	-110.34628	External
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42.90508	-110.17928	External
42.8625 43.1156	-110.0732 -110.0538	SEO External
43.1156	-110.0538	External
43.1156 43.1156	-110.0538 -110.0538	External External
43.1156 43.1156	-110.0538 -110.0538	External External
43.1156	-110.0538	SEO
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43.02747	-110.37491	SEO
43.14217	-110.01258	SEO
43.14217 42.8856		

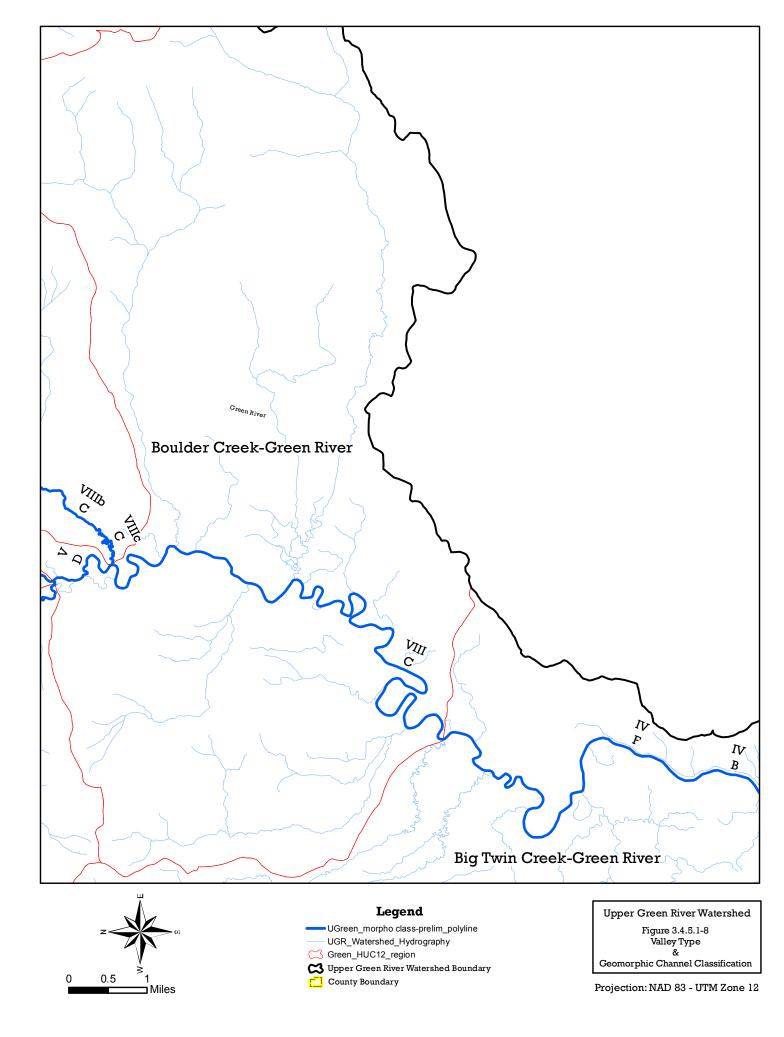
**APPENDIX M** 

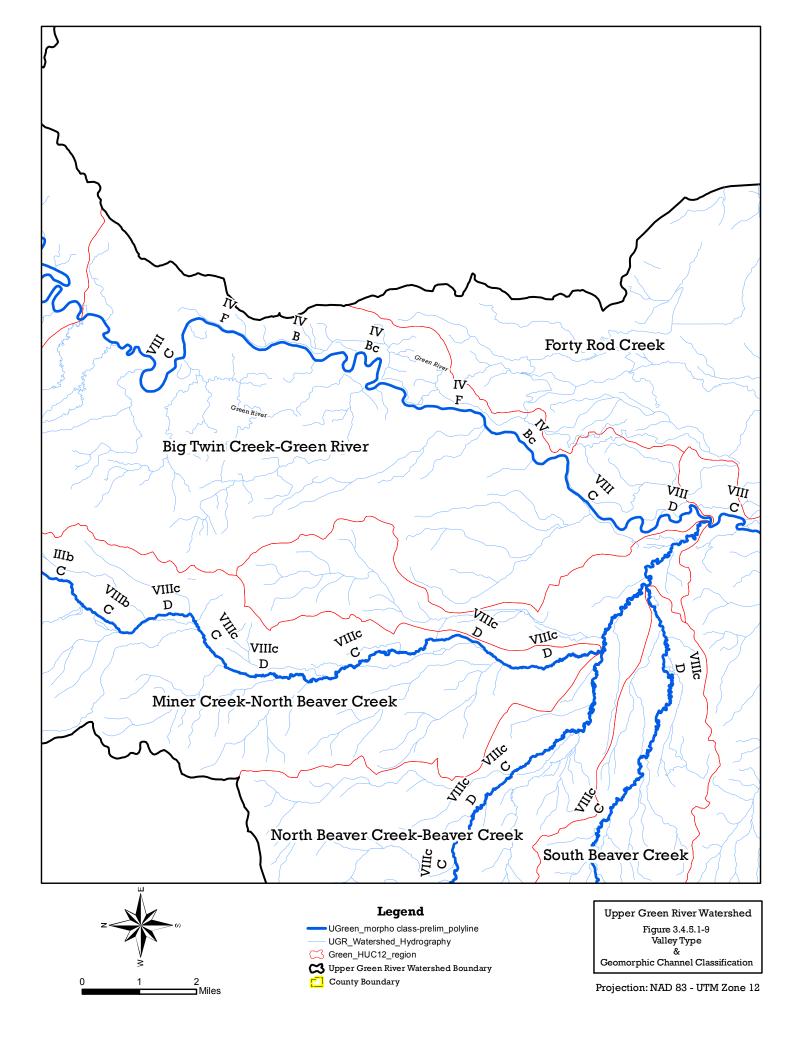
**GEOMORPHIC CHANNEL CLASSIFICATION** 

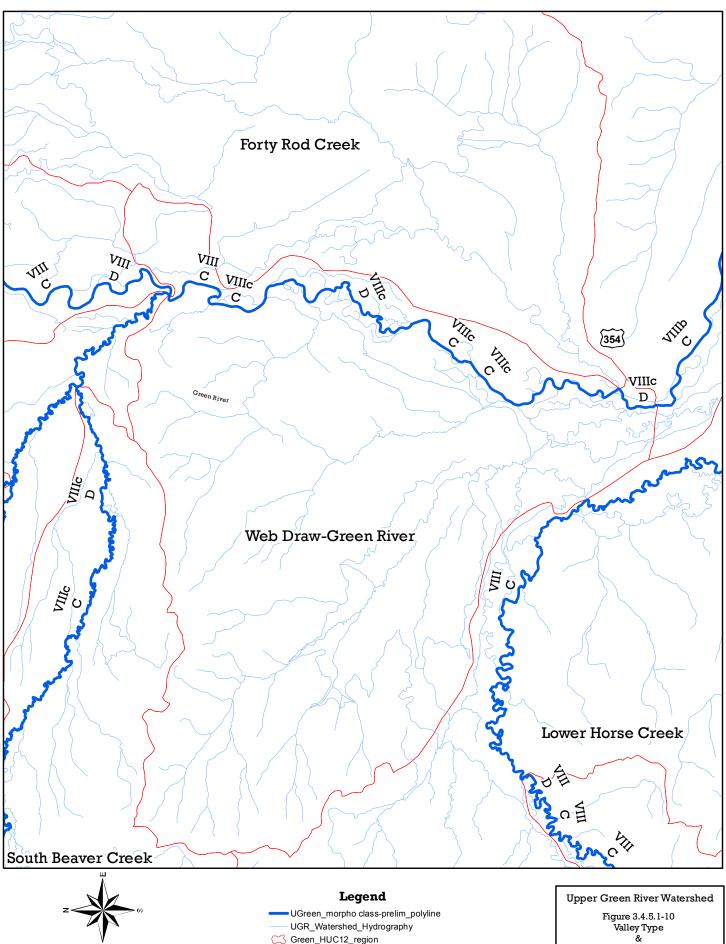


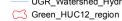












0.5

1 ⊐Miles

0

🔀 Upper Green River Watershed Boundary

County Boundary 

Geomorphic Channel Classification Projection: NAD 83 - UTM Zone 12

