

1246 STATE OF COLORADO  
DEPARTMENT OF LAW

AGRICULTURAL ENGINEERING STUDY  
SOUTHERN UTE & UTE MOUNTAIN  
UTE INDIAN RESERVATIONS

PIEDRA WATERSHED

FINAL REPORT

DESIGN & COST ESTIMATE FOR  
OFF-FARM IRRIGATION FACILITIES &  
PIA DETERMINATION



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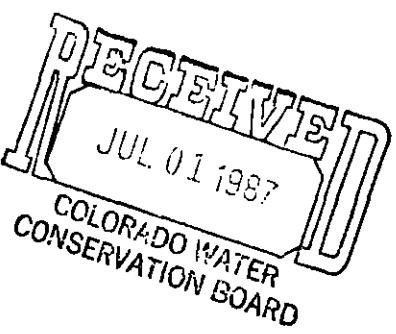
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## FINAL REPORT

## PIEDRA WATERSHED

**D.1 GENERAL**

The purpose of this task report is to present the methodology for determining practicably irrigable acreage (PIA) for the Piedra Watershed. The test for PIA requires that the revenues exceed the cost. The land under consideration when cropped and irrigated must return sufficient net positive income to pay for the costs of providing irrigation water to the farm headgate. In order to determine PIA it is necessary to conceptually design an irrigation transmission system to deliver water to the farm headgate for each arable parcel. The annualized cost of the off-farm irrigation water transmission system is compared to the net positive income (payment capacity) of the parcel.

Arable lands were identified by Stoneman and Landers. Potential crops, irrigation water requirements, on-farm irrigation systems cost, and other related agronomic information were prepared by Boyle and presented in Task A and B reports. Economic methodology and net agricultural returns were prepared by Western Research Corporation.

This preliminary PIA analysis compares the preliminary net agricultural return with the cost of water delivery from the primary water source to the parcel headgate. For this preliminary analysis, the highest net agricultural return for each climatic zone is used.

Off-farm irrigation transmission facilities were conceptually designed for those parcels with preliminary payment capacities greater than the off-farm water pumping costs. The pumping cost was re-evaluated, added to the facilities cost, and compared to the preliminary payment capacity.

To complete the PIA analysis, the cropping pattern and payment capacities were reviewed by the economist taking into account the practicality of the cropping pattern for the particular parcel and any agronomic costs that might be particular to the parcel. Several iterations of this process between the economist and the engineer were sometimes necessary in order to develop the most economical parcel and facilities layout. Those parcels that still exhibited positive residual payment capacity after these further analyses were then determined to be practicably irrigable.

#### D.2 SELECTION OF PARCELS FOR OFF-FARM DESIGN

Parcels to be considered for PIA analysis were identified in the Task B Report along with on-farm irrigation costs. The Task B report identified irrigation costs for handmove sprinkler, sideroll sprinkler, gravity (furrow or basin), center pivot, and center pivot with sprinkler in the corners. Computer tabulation compared on-farm irrigation costs to the crop payment capacity for an alfalfa/barley crop rotation.

The first step in making this task analysis was determination of the

1251 presently irrigated lands on Southern Ute Indian lands. W. W. Wheeler & Associates, Inc., hydrology consultant, identified from aerial photographs and other information available to them the lands presently irrigated and provided to Boyle a marked print of the base map. The amount of irrigated acreage was then planimetered from the base map and tabulated. It should be noted that presently irrigated land covers some land not classified and Class 6 (non-irrigable) soils as determined by Stoneman-Landers, soil consultants.

For the remaining irrigable parcels, an analysis was made to determine the residual water payment capacity when only the off-farm static pumping lift costs were added to the on-farm costs identified in Task B. Based on the elevation of the nearest water supply and the elevation of the highest point in each parcel, the static lift to serve the parcel was calculated using the computer program developed for the Task B report. The power cost to lift the annual water requirement to each field was then calculated assuming a 75 percent pumping plant efficiency which is a conservatively high assumption; and a field delivery pressure of 60 psi for all but gravity irrigated fields.

It should be noted that the parcel water payment capacity residual analysis (Appendix D) was slightly modified from the analysis presented in the Task B draft report. Land leveling costs for gravity irrigated fields were not included in the Task B on-farm costs. The Task B report, however, estimated land leveling

quantities in the range of one foot average cuts at a cost of \$0.50 to \$1.00 per cubic yard. As a conservatively low estimate, an average 6-inch cut at \$0.50 per cubic yard for a total cost of \$403 per acre was assumed for this Task D analysis. Amortizing this cost at 8-3/8 percent interest over 50 years gives a cost of \$34.40, or in round numbers, \$35 per acre. This cost was then included in the on-farm costs for gravity irrigation.

### D.3 OFF-FARM IRRIGATION TRANSMISSION SYSTEM COST

#### D.3.1 General

The off-farm irrigation transmission facilities will generally consists of transmission pipelines, pumping stations, and diversion facilities. Roads for access to pump stations; rights-of-way; and the extension of electrical power services to pumping stations were not included in the cost analysis. Costs for those items included are based on experience with similar facilities. All costs are then amortized using a discount rate of 8-3/8 percent over a 50 year project life.

#### D.3.2 Pumping Stations

Pump station costs were estimated using an equation which considers flow and horsepower as variables. The equation is based on Boyle's experience with various size agricultural pump stations which include pump motor, pump structure, valves, surge control, and power panel. The equation is:

$$\text{Cost (\$)} = 2441(\text{GPM})^{0.41} + 150(\text{HP})^{1.05}$$

where GPM is the system flow rate in gallons per minute and HP is the gross horsepower.

#### D.3.3 Pipelines

The cost of pipelines is estimated based on experience in water transmission pipeline work. The least cost type of pipe material for the various diameters is reflected in the estimate. Pipeline costs have been compared with pipeline cost estimates from the United States Bureau of Reclamation (USBR) Dolores Project as well as the Animas-La Plata Definite Plan Report. Installed estimated pipeline costs are shown in Table D.1.

#### D.3.4 River Diversion Structures

River diversion structures were included for parcels over 30 acres. The diversion structure would be constructed across the river to form a pool of water with sufficient depth for the pump to draw from. A weir type diversion structure consists of a 4 foot high wall with a footing and riprap on each side for stability and protection from ice damage. The estimated cost of the structure is \$210 per foot. The diversion structures were estimated to be 50 feet long for the Piedra River.

It may not be practical to build a massive diversion to serve a small parcel. A farmer farming a small parcel with low flow requirements would probably have a simple temporary diversion which could be nothing more than a berm graded across the river with a backhoe or

TABLE D.1  
PIPELINE COSTS

Pipe Diamet. (inch)	Installed Cost - \$/ft					
	100 psi	150 psi	200 psi	250 psi	300 psi	350 psi
4	10.50	11.00	11.50	12.00	12.50	13.00
6	12.00	12.50	13.00	14.00	14.50	15.00
8	15.50	16.00	17.00	17.50	18.50	20.00
10	20.00	21.00	22.50	23.50	25.00	26.50
12	24.00	26.50	28.50	31.00	33.00	35.00
14	28.50	32.00	35.00	38.00	41.00	44.00
15	31.00	34.50	38.50	42.50	45.50	49.00
16	34.00	37.50	42.00	46.00	50.00	54.00
18	41.00	45.00	50.00	54.00	59.50	65.00
20	48.50	53.00	58.00	63.50	69.00	75.00
21	50.50	55.50	60.50	66.00	71.50	77.00
24	62.00	69.00	75.50	82.00	88.50	95.50
27	75.50	82.00	88.50	96.50	104.00	112.00
30	89.50	96.50	103.00	111.00	120.00	128.50
33	104.50	111.00	116.50	126.50	137.50	148.50
36	115.50	122.00	130.50	142.00	155.00	166.00

1/ Unit construction cost including 10% allowance for appurtenances.

dozer to form a shallow pool for his pump to take suction from if flows in the stream are low. If stream flows were too large to allow installation of a temporary diversion, a low flow could most likely be pumped without a diversion.

The berm may require regrading several times during the irrigation season. However, the overall cost of such diversions is minimal. The decision on the type and size of diversion will vary with each parcel and would require extensive review in the field. Therefore, in order to simplify the analysis it is assumed that no special diversion structure will be required for parcels of 30 acres or less.

In cases where several parcels can be served from one diversion and the combined acreage is over 30 acres, the cost of the diversion is divided between the parcels in proportion to parcel acreage. This approach is believed to be conservative (in favor of generating PIA) and realistic for this type of analysis.

#### D.3.5 Other Costs

Annual maintenance of major facilities including pipelines, pump stations, and river diversions is estimated at 0.5 percent of the initial construction cost.

The cost of electrical energy is assumed to be \$0.068605/KWhr for the Southern Ute area and \$0.065039/KWhr for the Mountain Ute area. These are commercial user rates being charged during the first half

of 1985. A detailed discussion of the power costs was previously provided.

#### D.3.6 Other Costs Not Included

Other known costs which could be considered are costs for access roads to the pump stations, right-of-way costs where pipelines or pump stations may be on non-Indian land, and costs to provide electric power service to the pump station. These costs are either minor and/or difficult to estimate with available information. Therefore, for these preliminary analyses, they have not been considered at this time.

The cost of power line extensions to serve pumping facilities could be quite high, especially if three phase power is required. Three phase power will be required for pump stations over 25 horsepower.

### D.4 PRELIMINARY PRACTICABLE IRRIGABLE ACREAGE

#### D.4.1 Existing Irrigated Lands

Lands currently irrigated are assumed to be PIA requiring no further evaluation. No currently irrigated acreage was found in the Piedra watershed.

#### D.4.2 Water Supply

An examination of the hydrology data for the Piedra River shows that there is sufficient virgin flow during the summer irrigation periods to serve the potential arable lands directly from the river.

Therefore, it was not necessary to perform any operational studies involving storage reservoirs.

#### D.4.3 Cropping Pattern

For the preliminary analysis of PIA, a cropping pattern with the highest net agricultural returns was used. Table D.2 identifies this cropping pattern as well as the net agricultural return. The parcels in the Piedra watershed are located in climatic zones D, E, and F.

#### D.4.4 Preliminary PIA Analysis

A preliminary PIA analysis was performed comparing a parcel's payment capacity with a preliminary estimate of the cost to pump water from the river to the parcel. This preliminary water cost was based on the static pumping lift (the difference in elevation from the water surface in the river to the elevation of the parcel) for gravity irrigated fields or plus a field delivery pressure of 60 psi for sprinkler irrigation. Detailed tabulations of the analysis are shown in Appendix D.1. Table D.3 identifies only those parcels with an initial positive residual payment capacity requiring further consideration. A total of 24 parcels covering 819 acres showed a positive residual payment capacity.

An off-farm irrigation transmission system was designed for those parcels near the Piedra River showing an initial positive residual payment capacity. Those calculations are shown in Appendix D.2 and

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TABLE D.2  
PRELIMINARY CROPPING PATTERN

Climatic Zone	Elevation Range, ft.	Crop Mix <sup>1/</sup>	Maximum Net Agricultural Return <sup>2/</sup> \$/ac/yr
A	<5,000	Corn, Soybeans	375
B	5,000-5,400	Corn, Soybeans	330
C	5,400-5,800	Corn, Soybeans	285
D	5,800-6,200	Alfalfa, Malt Barley	270
E	6,200-6,600	Alfalfa, Malt Barley	240
F	6,600-7,000	Alfalfa, Malt Barley	210
G	7,000-7,400	Alfalfa, Malt Barley	185
H	7,400-7,800	Alfalfa, Malt Barley	160
I	7,800-8,200	Grass Hay, Pasture	85
J	>8,200	Grass Hay, Pasture	70

1/ Cropping mix and maximum net agricultural return provided by Western Research Corporation, April 11, 1986.

2/ Maximum net agricultural returns do not include on-farm irrigation costs.

TABLE D.3  
PARCELS WITH PRELIMINARY RESIDUAL PAYMENT CAPACITY  
 (Considering pumping only)

Parcel No.	Gross Acres	Prelim. Residual Payment Capacity (\$/ac/yr)				
		Hndmve.1/	Sdroll.2/	Grav.3/	Cntrpvt.4/	Cpvt/Hmv.5/
P001	26	96	65	58		
P002	7	42	-88	14		
P003	33	129	102	88		
P004	24	89	56	51		
P005	29	123	94	85		
P006	14	114	54	82		
P007	103	131	118	80	57	62
P008	6	62	-85	38		
P009	74	119	102	66	7	16
P010	9	81	-14	54		
P011	9	90	-4	64		
P012	17	22	-24	-17		
P017	23	12	-21	-32		
P018	35	33	5	-18		
P020	13	22	-43	-18		
P021	11	17	-56	-24		
P023	115	50	36	-8	-5	-1
P024	14	18	-42	-22		
P025	65	19	0	-41	-99	-90
P026	48	11	-7	-47	-127	-118
P028	58	67	50	13	-61	-52
P029	37	50	24	-1		
P030	43	67	50	15		
P032	6	85	-62	64		

1/ Hndmve - Handmove sprinkler, on-farm irrigation system.

2/ Sdroll - Sideroll sprinkler, on-farm irrigation system.

3/ Grav - Gravity on-farm irrigation systems.

4/ Cntrpvt - Center pivot sprinkler, on-farm irrigation system.

5/ Cpvt/hmv - Center pivot sprinkler, on-farm irrigation system with hand move in the corners.

summarized in Table D.4. Parcels with an initial positive payment capacity after comparing the residual payment capacity to the cost of water are initially identified as practicably irrigable.

#### D.4.5 Preliminary Practicably Irrigable Acreage Determination

Table D.5 and Figures D.1 through D.3 identify the preliminary practicably irrigable acreage for the Piedra watershed. Three parcels totaling 206 acres were identified as initially PIA in the Piedra Watershed. The estimated annual water diversions would be 513 acre-feet from the Piedra River.

#### D.4.6 Final Practicably Irrigable Acreage Determination

Each of the three parcels which make up the 204 acres of preliminary PIA land was individually evaluated by the economist and adjusted to reflect individual parcel characteristics. These characteristics include soil suitability, land clearing and preparation, and farm efficiency adjustments for parcel size. After analysis none of the three parcels were found to qualify as potentially PIA. The details of the analysis are contained in "Economic Analysis of Potentially Irrigable Parcels in the Piedra Watershed" dated December, 1986, prepared by Western Research Corporation.

TABLE D.4  
SUMMARY OF OFF-FARM IRRIGATION WATER COST

Parcel No.	Gross Acres	Net Acres	<u>1/</u> Pay. Cap. \$/ac/yr	<u>2/</u> Water Cost \$/ac/yr	Residual Pay. Cap. \$/ac/yr
P001	26	26	163	450	-287
P002	7	7	112	1241	-1129
P003	33	33	167	172	-5
P004	24	24	164	218	-54
P005	29	29	165	150	15 <sup>3/</sup>
P006	14	14	147	189	-42
P007	103	101.9	169	107	62 <sup>3/</sup>
P008	6	6	105	370	-265 <sup>3/</sup>
P009	74	73.2	170	153	17 <sup>3/</sup>
P010	9	9	126	435	-309
P011	9	9	126	237	-111
P012	17	17	154	1258	-1104
P017	23	23	137	1019	-882
P018	35	35	141	889	-748
P020	13	13	118	882	-764
P021	11	11	113	882	-769
P023	115	113.8	142	564	-422
P024	14	14	120	795	-675
P025	65	64.3	144	791	-647
P026	48	47.5	144	768	-624
P028	58	57.4	170	545	-375
P029	37	37	142	550	-408
P030	43	42.5	171	490	-319
P032	6	6	131	326	-195

1/ Net acres for parcel, irrigation system, combination resulting in the highest payment capacity. See Appendix D.1.

2/ Highest preliminary payment capacity from Appendix D.1.

3/ Parcel with positive residual payment capacity.

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TABLE D.5  
SUMMARY OF PRELIMINARY PIA LANDS

Parcel No.	Gross Acres	Net Acres	Pay.Cap. \$/ac/yr	Water Cost \$/ac/yr	Residual Pay.Cap. \$/ac/yr	Diversion Required ac-ft/yr.
P005	29	29	165	150	15	73
P007	103	101.9	169	107	62	256
P009	.74	73.2	170	153	17	184
TOTAL	206	204.1				513

APPENDIX D.1  
PRELIMINARY PIA ANALYSIS

APPENDIX D.1  
LEGEND

Parcel I.D.: S11-P-01, "S11" = Southern Ute Sheet 11; "P" = Piedra Watershed; "01" = parcel number.

Field Size: Gross size of parcel in acres.

Reduction Factor: Acreage reduction factor discussed in Task A Report.

Net Acreage: The product of field size times reduction factor.

Elevation High and Low: The maximum and minimum elevation within the parcel.

Climatic Zone: Discussed in Task A Report and determined by the parcel's elevation.

Irrigation System Type: Type of on-farm irrigation system.

HNDMVE - Handmove sprinkler  
SDROLL - Side roll sprinkler  
GRAV - Gravity  
CNTRPV - Center pivot sprinkler  
CPVT/HMV - Center pivot with handmove

Net Feet: The unit net average irrigation water requirement for the parcel in acre-feet per acre.

Irrigation Efficiency: Irrigation efficiency discussed in Task A Report.

Applied: The unit gross on-farm average irrigation water requirement in acre-feet per acre.

Preliminary Net Ag Return: The preliminary net agricultural return not including the on-farm irrigation system or off-farm irrigation water transmission/distribution system.

Capital: The amortized capital cost per acre per year for the on-farm irrigation system (at 8 3/8% for 50 years) from Task B Report.

Maintenance: The per acre per year maintenance cost of the on-farm irrigation system from the Task B Report.

Labor: The per acre per year labor cost for operation of the on-farm irrigation system from the Task B Report.

Pumping: The per acre per year cost of providing additional on-farm pumping to meet the higher pressure requirements of the center pivot irrigation system.

Preliminary Payment Capacity: The preliminary net ag. returns minus the on-farm irrigation capital, maintenance, labor, and pumping cost in dollars per acre.

Water Source Elevation: The water source diversion point nominal elevation.

Static Lift: The difference in elevation of the parcel's high elevation and water source elevation in feet.

Annual Power Cost/Acre: The cost of electrical energy per acre per year to serve the parcel considering only the static lift in the case of gravity irrigation or the static lift plus 139 ft. (60 psi) for all types of sprinkler irrigation.

Residual Preliminary Payment Capacity: The result of the preliminary payment capacity minus the annual power cost for pumping at the water supply source in dollars per acre.

COLORADO UTE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Pinto Watershed

PARCEL I.D.	ACREAGE					WATER REQUIREMENTS			PRELIMINARY ANNUAL PAYMENT CAPACITY					PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. PAYMENT CAPACITY			
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	ELEVATION HIGH	ELEVATION LOW	CLIMATIC ZONE	IRRIG. SYSTEM TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG RETURN	ON-FARM CAPITAL	MAINT.	LABOR	PUMPING	PRELIM. PAYMENT CAPACITY	WATER SOURCE ELEV.	STATIC LIFT	ANNUAL POWER COST/ACRE	
S06-P-001	26	1	26	6590	6490	E	HNDVYE	1.76	.7	2.51	\$ 210	\$ 30	\$ 5	\$ 31	\$ 0	\$ 163	6140	150	\$ .67	\$ .86
S06-P-001	26	1	26	6590	6490	E	S0ROLL	1.76	.7	2.51	\$ 240	\$ 65	\$ 18	\$ 22	\$ 0	\$ 133	6140	160	\$ .67	\$ .85
S06-P-001	26	1	26	6590	6490	E	GRAY	1.76	.65	2.7	\$ 210	\$ 100	\$ 5	\$ 31	\$ 0	\$ 96	6140	150	\$ .38	\$ .58
S06-P-002	7	1	7	6600	6540	E	HNDVYE	1.76	.7	2.51	\$ 210	\$ 10	\$ 12	\$ 30	\$ 0	\$ 112	6140	100	\$ .70	\$ .42
S06-P-002	7	1	7	6600	6540	E	S0ROLL	1.76	.7	2.51	\$ 240	\$ 172	\$ 0	\$ 25	\$ 0	\$ 10	6140	100	\$ .70	\$ .88
S06-P-002	7	1	7	6600	6540	E	GRAY	1.76	.65	2.7	\$ 210	\$ 100	\$ 12	\$ 27	\$ 0	\$ 55	6140	100	\$ .40	\$ .16
S06-P-003	33	1	33	6360	6330	E	HNDVYE	1.76	.7	2.51	\$ 210	\$ 36	\$ 3	\$ 21	\$ 0	\$ 167	6310	20	\$ .37	\$ .19
S06-P-003	33	1	33	6360	6330	E	S0ROLL	1.76	.7	2.51	\$ 240	\$ 10	\$ 17	\$ 22	\$ 0	\$ 139	6310	20	\$ .37	\$ .102
S06-P-003	33	1	33	6360	6330	E	GRAY	1.76	.65	2.7	\$ 210	\$ 100	\$ 5	\$ 31	\$ 0	\$ 93	6310	20	\$ .5	\$ .08
S06-P-004	24	1	24	6520	6100	E	HNDVYE	1.76	.7	2.51	\$ 210	\$ 39	\$ 5	\$ 21	\$ 0	\$ 164	6240	100	\$ .75	\$ .89
S06-P-004	24	1	24	6520	6100	E	S0ROLL	1.76	.7	2.51	\$ 240	\$ 66	\$ 19	\$ 22	\$ 0	\$ 132	6240	100	\$ .75	\$ .56
S06-P-004	24	1	24	6520	6100	E	GRAY	1.76	.65	2.7	\$ 210	\$ 105	\$ 5	\$ 31	\$ 0	\$ 96	6240	100	\$ .45	\$ .31
S06-P-005	29	1	29	6360	6320	E	HNDVYE	1.76	.7	2.51	\$ 210	\$ 37	\$ 4	\$ 31	\$ 0	\$ 165	6320	40	\$ .42	\$ .13
S06-P-005	29	1	29	6360	6320	E	S0ROLL	1.76	.7	2.51	\$ 240	\$ 13	\$ 10	\$ 22	\$ 0	\$ 138	6320	40	\$ .42	\$ .91
S06-P-005	29	1	29	6360	6320	E	GRAY	1.76	.65	2.7	\$ 210	\$ 107	\$ 5	\$ 31	\$ 0	\$ 95	6320	40	\$ .10	\$ .45

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COLORADO RIVE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Watershed

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PARCEL I.D.	ACREAGE			ELEVATION			CLIMATIC			WATER REQUIREMENTS PER ACRE			PRELIMINARY ANNUAL PAYMENT PER ACRE			PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. PAYMENT CAPACITY	
	FIELD SIZE (ACRES)	REDUCTION FACTOR	BET ACREAGE	HIGH	LOW	ZONE	IRRIG. SYSTEM TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG. RETURN	CAPITAL	MAINT.	LABOR	PUMPING	PRELIM. PAYMENT CAPACITY	WATER SOURCE ELEV.	STATIC LIFT	ANNUAL POWER COST/ACRE	
											\$/A	\$/A	\$/A	\$/A						
S00-P-006	14	1	14	6320	6315	E	HHDNVE	1.78	.7	2.51	1,240	1.53	8.7	8.31	1.0	1.117	6320	0	1.32	3.114
S00-P-006	14	1	14	6320	6315	E	S0ROLL	1.78	.7	2.51	1,240	1.99	8.31	8.22	1.0	1.87	6320	0	1.32	3.56
S00-P-006	14	1	14	6320	6315	E	GRAY	1.78	.65	2.7	1,240	1.11	8.7	8.31	1.0	1.82	6320	0	1.0	1.82
S00-P-007	103	.99	101.9	6320	6300	E	HHDNVE	1.78	.7	2.51	1,240	1.36	8.4	8.30	1.0	1.109	6300	20	1.37	1.131
S00-P-007	103	.99	101.9	6320	6300	E	S0ROLL	1.78	.7	2.51	1,240	1.53	8.16	8.19	1.0	1.155	6300	20	1.37	1.110
S00-P-007	103	.99	101.9	6320	6300	E	GRAY	1.78	.65	2.7	1,240	1.11	8.8	8.20	1.0	1.85	6300	20	1.5	1.80
S00-P-007	103	.83	85.7	6320	6300	E	CHTOPVT	1.78	.75	2.31	1,240	1.19	8.31	8.11	1.0	1.92	6300	20	1.38	1.57
S00-P-007	103	.98	101.2	6320	6300	E	CPVT/HNV	1.78	.74	2.37	1,240	1.13	8.30	8.8	1.0	1.91	6300	20	1.35	1.62
S00-P-008	8	1	8	6260	6260	E	HHDNVE	1.78	.7	2.51	1,240	1.18	8.14	8.31	1.0	1.105	6240	40	1.42	3.62
S00-P-008	8	1	8	6260	6260	E	S0ROLL	1.78	.7	2.51	1,240	1.19	8.07	8.25	1.0	1.43	6240	40	1.42	3.85
S00-P-008	8	1	8	6260	6260	E	GRAY	1.78	.65	2.7	1,240	1.15	8.13	8.27	1.0	1.48	6240	40	1.10	1.30
S00-P-009	74	.99	73.2	6360	6300	E	HHDNVE	1.78	.7	2.51	1,240	1.31	8.1	8.30	1.0	1.170	6240	40	1.51	3.119
S00-P-009	74	.99	73.2	6360	6300	E	S0ROLL	1.78	.7	2.51	1,240	1.55	8.16	8.19	1.0	1.153	6240	40	1.51	3.102
S00-P-009	74	.99	73.2	6360	6300	E	GRAY	1.78	.65	2.7	1,240	1.11	8.7	8.30	1.0	1.18	6240	40	1.20	3.68
S00-P-009	74	.83	61.6	6360	6300	E	CHTOPVT	1.78	.75	2.31	1,240	1.01	8.16	8.1	1.0	1.55	6240	40	1.40	1.7
S00-P-009	74	.98	72.7	6360	6300	E	CPVT/HNV	1.78	.74	2.37	1,240	1.03	8.38	8.9	1.0	1.61	6240	40	1.48	3.18
S00-P-010	9	1	9	6295	6275	E	HHDNVE	1.78	.7	2.51	1,240	1.18	8.10	8.30	1.0	1.126	6240	55	1.45	1.81
S00-P-010	9	1	9	6295	6275	E	S0ROLL	1.78	.7	2.51	1,240	1.17	8.45	8.25	1.0	1.31	6240	55	1.45	1.14
S00-P-010	9	1	9	6295	6275	E	GRAY	1.78	.65	2.7	1,240	1.03	8.10	8.27	1.0	1.68	6240	55	1.10	1.54

COLORADO UTE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Watershed

PARCEL I.D.	A C R E A G E					WATER REQUIREMENTS			P R E L I M I N A R Y A N N U A L P A Y M E N T C A P A C I T Y					P R E L I M I N A R Y O F F - F A R M W A T E R C O S T			RESIDUAL PRELIM. PAYMENT CAPACITY			
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	ELEVATION HIGH	ELEVATION LOW	CLIMATIC ZONE	P R E L I M I N A R Y      W A T E R      R E Q U I R E M E N T S			P R E L I M I N A R Y      A N N U A L      P A Y M E N T      C A P A C I T Y					WATER SOURCE	STATIC ELEV.	ANNUAL POWER COST/ACRE			
							IRRIG. SYSTEM	IRRIG. TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG. RETURN	ON-FARM CAPITAL	MAINTE. LABOR	PUMPING	PRELIM. PAYMENT CAPACITY				
S06-P-011	9	1	9	6220	6215	E	HNDVIE	1.76	.7	2.51	\$ 210	\$ 68	\$ 10	\$ 34	1.0	\$ 126	6205	15	\$ 36	\$ 90
S06-P-011	9	1	9	6220	6215	E	SOROLL	1.76	.7	2.51	\$ 210	\$ 127	\$ 15	\$ 29	0.0	\$ 31	6205	15	\$ 36	\$ 4
S06-P-011	9	1	9	6220	6215	E	GRAY	1.76	.65	2.7	\$ 210	\$ 133	\$ 10	\$ 27	1.0	\$ 68	6205	15	\$ 3	\$ 61
S06-P-012	17	1	17	6220	6520	E	HNDVIE	1.76	.7	2.51	\$ 210	\$ 68	\$ 6	\$ 21	0.0	\$ 154	6205	425	\$ 132	\$ 22
S06-P-012	17	1	17	6220	6520	E	SOROLL	1.76	.7	2.51	\$ 210	\$ 64	\$ 25	\$ 22	0.0	\$ 107	6205	425	\$ 132	\$ 24
S06-P-012	17	1	17	6220	6520	E	GRAY	1.76	.65	2.7	\$ 210	\$ 111	\$ 6	\$ 21	0.0	\$ 90	6205	425	\$ 107	\$ 17
S06-P-013	5	1	5	6640	6600	F	HNDVIE	1.56	.7	2.22	\$ 210	\$ 92	\$ 15	\$ 30	0.0	\$ 71	6205	435	\$ 119	\$ 48
S06-P-013	5	1	5	6640	6600	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 208	\$ 74	\$ 22	0.0	\$ 95	6205	435	\$ 119	\$ 215
S06-P-013	5	1	5	6640	6600	F	GRAY	1.56	.65	2.4	\$ 210	\$ 155	\$ 14	\$ 24	0.0	\$ 15	6205	435	\$ 97	\$ 82
S06-P-014	13	1	13	6780	6640	F	HNDVIE	1.56	.7	2.22	\$ 210	\$ 55	\$ 8	\$ 20	0.0	\$ 118	6205	575	\$ 148	\$ 30
S06-P-014	13	1	13	6780	6640	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 104	\$ 23	\$ 19	0.0	\$ 52	6205	575	\$ 148	\$ 96
S06-P-014	13	1	13	6780	6640	F	GRAY	1.56	.65	2.4	\$ 210	\$ 126	\$ 8	\$ 27	0.0	\$ 53	6205	575	\$ 129	\$ 74
S06-P-015	26	1	26	6880	6760	F	HNDVIE	1.56	.7	2.22	\$ 210	\$ 38	\$ 5	\$ 28	0.0	\$ 138	6205	675	\$ 189	\$ 31
S06-P-015	26	1	26	6880	6760	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 65	\$ 18	\$ 19	0.0	\$ 106	6205	675	\$ 189	\$ 63
S06-P-015	26	1	26	6880	6760	F	GRAY	1.56	.65	2.4	\$ 210	\$ 106	\$ 5	\$ 27	1.0	\$ 69	6205	675	\$ 151	\$ 81

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COLORADO UTE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Watershed

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C

PARCEL I.D.	ACREAGE						WATER REQUIREMENTS			PRELIMINARY ANNUAL PAYMENT CAPACITY						PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. CAPACITY	
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	ELEVATION HIGH	ELEVATION LOW	CLIMATIC ZONE	IRRIG. SYSTEM	PER ACRE			PRELIMINARY NET AG. RETURN	ON-FARM IRRIG. COSTS			PRELIM. PAYMENT CAPACITY	WATER SOURCE	STATIC ELEV.	ANNUAL POWER COST/ACRE		
								TYPE	NET FEET	IRRIG. EFF.	APPLIED	CAPITAL	Maint.	Labor	Pumping					
S07-P-010	10	1	10	6730	6690	F	HHDNVE	1.56	.7	2.22	\$ 210	\$ 62	\$ 9	\$ 20	\$ 0	\$ 110	\$340	300	\$ 110	\$ 0
S07-P-010	10	1	10	6730	6690	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 119	\$ 38	\$ 10	\$ 0	\$ 31	\$340	300	\$ 110	\$ 78
S07-P-016	10	1	10	6730	6690	F	GRAV	1.56	.65	2.4	\$ 210	\$ 123	\$ 8	\$ 27	\$ 0	\$ 45	\$340	300	\$ 117	\$ 42
S07-P-017	23	1	23	6100	6700	F	HHDNVE	1.56	.7	2.22	\$ 210	\$ 39	\$ 5	\$ 20	\$ 0	\$ 137	\$340	460	\$ 121	\$ 12
S07-P-017	23	1	23	6100	6700	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 67	\$ 19	\$ 10	\$ 0	\$ 103	\$340	460	\$ 121	\$ 21
S07-P-017	23	1	23	6100	6700	F	GRAV	1.56	.65	2.4	\$ 210	\$ 105	\$ 5	\$ 27	\$ 0	\$ 70	\$340	400	\$ 103	\$ 32
S07-P-018	35	1	35	6720	6630	F	HHDNVE	1.56	.7	2.22	\$ 210	\$ 35	\$ 8	\$ 28	\$ 0	\$ 101	\$340	300	\$ 108	\$ 33
S07-P-018	35	1	35	6720	6630	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 59	\$ 17	\$ 19	\$ 0	\$ 113	\$340	300	\$ 108	\$ 5
S07-P-018	35	1	35	6720	6630	F	GRAV	1.56	.65	2.4	\$ 210	\$ 109	\$ 5	\$ 27	\$ 0	\$ 66	\$340	300	\$ 105	\$ 18
S07-P-019	6	1	6	6160	6600	F	HHDNVE	1.56	.7	2.22	\$ 210	\$ 10	\$ 14	\$ 30	\$ 0	\$ 74	\$340	320	\$ 95	\$ 18
S07-P-019	6	1	6	6160	6600	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 190	\$ 67	\$ 22	\$ 0	\$ 70	\$340	320	\$ 95	\$ 180
S07-P-019	6	1	6	6160	6600	F	GRAV	1.56	.65	2.4	\$ 210	\$ 150	\$ 13	\$ 24	\$ 0	\$ 21	\$340	320	\$ 71	\$ 50
S07-P-020	13	1	13	6680	6620	F	HHDNVE	1.56	.7	2.22	\$ 210	\$ 55	\$ 0	\$ 20	\$ 0	\$ 118	\$340	320	\$ 85	\$ 22
S07-P-020	13	1	13	6680	6620	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 104	\$ 33	\$ 19	\$ 0	\$ 52	\$340	320	\$ 85	\$ 43
S07-P-020	13	1	13	6680	6620	F	GRAV	1.56	.65	2.4	\$ 210	\$ 120	\$ 8	\$ 27	\$ 0	\$ 33	\$340	320	\$ 71	\$ 10

COLORADO VTE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Watershed

PARCEL I.D.	ACREAGE					WATER REQUIREMENTS PER ACRE			PRELIMINARY ANNUAL PAYMENT CAPACITY PER ACRE					PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. PAYMENT CAPACITY			
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	ELEVATION HIGH	ELEVATION LOW	CLIMATIC ZONE	IRRIG. SYSTEM	IRRIG. TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG. RETURN	ON-FARM CAPITAL	IRRIG. MAINT.	Labor	PUMPING	PRELIM. PAYMENT CAPACITY	WATER SOURCE ELEV.	STATIC LIFT	ANNUAL COST/ACRE
S07-P-021	11	1	11	6660	6420	F	HDNDRV	1.56	.7	2.22	\$ 210	\$ 58	\$ 1	\$ 28	\$ 0	\$ 113	\$340	324	\$ 85	\$ 17
S07-P-021	11	1	11	6660	6420	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 114	\$ 16	\$ 14	\$ 0	\$ 38	\$340	320	\$ 85	\$ 56
S07-P-021	11	1	11	6660	6420	F	GRAY	1.56	.65	2.4	\$ 210	\$ 125	\$ 9	\$ 27	\$ 0	\$ 47	\$240	320	\$ 71	\$ 24
S07-P-022	9	1	9	6700	6650	F	HDNDRV	1.56	.7	2.22	\$ 210	\$ 68	\$ 10	\$ 30	\$ 0	\$ 100	\$340	360	\$ 104	\$ 3
S07-P-022	9	1	9	6700	6650	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 137	\$ 15	\$ 22	\$ 0	\$ 44	\$340	360	\$ 104	\$ 99
S07-P-022	9	1	9	6700	6650	F	GRAY	1.56	.65	2.4	\$ 210	\$ 133	\$ 10	\$ 24	\$ 0	\$ 41	\$340	360	\$ 80	\$ 39
S07-P-023	115	.99	113.8	6640	6590	F	HDNDRV	1.56	.7	2.22	\$ 210	\$ 38	\$ 4	\$ 26	\$ 0	\$ 142	\$340	300	\$ 91	\$ 50
S07-P-023	115	.99	113.8	6640	6590	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 53	\$ 16	\$ 12	\$ 0	\$ 127	\$340	300	\$ 81	\$ 36
S07-P-023	115	.99	113.8	6640	6590	F	GRAY	1.56	.65	2.4	\$ 210	\$ 117	\$ 6	\$ 27	\$ 0	\$ 58	\$340	300	\$ 67	\$ 8
S07-P-023	115	.93	95.7	6640	6590	F	CNTRPVY	1.56	.75	2.00	\$ 210	\$ 66	\$ 31	\$ 3	\$ 15	\$ 79	\$340	200	\$ 15	\$ 5
S07-P-023	115	.90	113	6640	6590	F	CPVT/HMV	1.56	.74	2.1	\$ 210	\$ 75	\$ 27	\$ 7	\$ 15	\$ 84	\$340	300	\$ 48	\$ 1
S07-P-024	13	1	11	6190	6020	F	HDNDRV	1.56	.7	2.22	\$ 210	\$ 53	\$ 1	\$ 28	\$ 0	\$ 128	\$340	350	\$ 301	\$ 18
S07-P-024	14	1	11	6190	6020	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 39	\$ 31	\$ 19	\$ 0	\$ 59	\$340	350	\$ 301	\$ 42
S07-P-024	11	1	11	6190	6020	F	GRAY	1.56	.65	2.4	\$ 210	\$ 55	\$ 7	\$ 27	\$ 0	\$ 55	\$340	350	\$ 73	\$ 22
S07-P-025	65	.99	61.2	6100	6760	F	HDNDRV	1.56	.7	2.22	\$ 210	\$ 39	\$ 4	\$ 26	\$ 0	\$ 144	\$340	460	\$ 124	\$ 10
S07-P-025	65	.99	61.2	6100	6760	F	SOROLL	1.56	.7	2.22	\$ 210	\$ 55	\$ 16	\$ 12	\$ 0	\$ 125	\$340	460	\$ 124	\$ 0
S07-P-025	65	.99	61.2	6100	6760	F	GRAY	1.56	.65	2.4	\$ 210	\$ 124	\$ 6	\$ 27	\$ 0	\$ 61	\$340	460	\$ 103	\$ 41
S07-P-025	65	.93	54.1	6100	6760	F	CNTRPVY	1.56	.75	2.00	\$ 210	\$ 117	\$ 17	\$ 5	\$ 21	\$ 27	\$340	460	\$ 116	\$ 99
S07-P-025	65	.90	61.2	6100	6760	F	CPVT/HMV	1.56	.74	2.1	\$ 210	\$ 109	\$ 41	\$ 8	\$ 21	\$ 27	\$340	460	\$ 117	\$ 90

COLORADO UTE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Watershed

PARCEL I.D.	FIELD ACREAGE					WATER REQUIREMENTS			PRELIMINARY ANNUAL PAYMENT CAPACITY					PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. PAYMENT CAPACITY			
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	ELEVATION HIGH	ELEVATION LOW	CLIMATIC ZONE	IRRIG. SYSTEM	TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG. RETURN	ON-FARM CAPITAL	MAIN	IRRIG. COSTS	LABOR	PUMPING	PRELIM. PAYMENT CAPACITY	WATER SOURCE ELEV	STATIC LIFT
S07-P-025	40	.99	37.5	6140	5720	F	HNDVNE	1.56	.7	2.21	\$ 210	\$ 34	\$ 4	\$ 16	\$ 0	\$ 144	\$340	500	\$ 133	\$ 35
S07-P-026	40	.99	37.5	6140	5720	F	S0ROLL	1.56	.7	2.22	\$ 210	\$ 55	\$ 16	\$ 12	\$ 0	\$ 125	\$340	500	\$ 133	\$ 7
S07-P-026	40	.99	37.5	6140	5720	F	GRAY	1.56	.65	2.1	\$ 210	\$ 111	\$ 6	\$ 27	\$ 0	\$ 68	\$340	500	\$ 112	\$ 67
S07-P-028	18	.93	20.9	6140	5720	F	CNTRPVT	1.56	.75	2.01	\$ 210	\$ 136	\$ 52	\$ 6	\$ 23	\$ 2	\$340	500	\$ 121	\$ 127
S07-P-028	48	.99	47.1	6140	5720	F	CPVT/RHV	1.56	.71	2.1	\$ 210	\$ 122	\$ 16	\$ 10	\$ 23	\$ 6	\$340	500	\$ 125	\$ 118
S07-P-027	1	1	1	6140	6140	F	HNDVNE	1.56	.7	2.22	\$ 210	\$ 74	\$ 13	\$ 20	\$ 0	\$ 93	\$340	300	\$ 99	\$ 6
S07-P-027	1	1	1	6140	6140	F	S0ROLL	1.56	.7	2.22	\$ 210	\$ 156	\$ 53	\$ 22	\$ 0	\$ 20	\$340	300	\$ 99	\$ 120
S07-P-027	1	1	1	6140	6140	F	GRAY	1.56	.65	2.1	\$ 210	\$ 138	\$ 11	\$ 24	\$ 0	\$ 25	\$340	300	\$ 78	\$ 41
S07-P-029	58	.99	57.4	6140	6550	E	HNDVNE	1.76	.7	2.31	\$ 210	\$ 38	\$ 4	\$ 30	\$ 0	\$ 170	\$340	300	\$ 103	\$ 87
S07-P-029	58	.99	57.4	6140	6550	E	S0ROLL	1.76	.7	2.31	\$ 210	\$ 55	\$ 18	\$ 11	\$ 0	\$ 153	\$340	300	\$ 103	\$ 50
S07-P-029	58	.99	57.4	6140	6550	E	GRAY	1.76	.65	2.1	\$ 210	\$ 118	\$ 6	\$ 10	\$ 0	\$ 68	\$340	300	\$ 78	\$ 13
S07-P-029	58	.93	48.3	6140	6550	E	CNTRPVT	1.76	.75	2.11	\$ 210	\$ 123	\$ 19	\$ 6	\$ 25	\$ 25	\$340	300	\$ 96	\$ 61
S07-P-029	58	.99	57	6140	6550	E	CPVT/RHV	1.76	.71	2.37	\$ 210	\$ 114	\$ 43	\$ 11	\$ 25	\$ 45	\$340	300	\$ 97	\$ 52
S07-P-029	37	1	37	6140	6570	F	HNDVNE	1.56	.7	2.22	\$ 210	\$ 20	\$ 4	\$ 28	\$ 0	\$ 142	\$340	300	\$ 81	\$ 50
S07-P-029	37	1	37	6140	6570	F	S0ROLL	1.56	.7	2.22	\$ 210	\$ 51	\$ 16	\$ 19	\$ 0	\$ 155	\$340	300	\$ 81	\$ 24
S07-P-029	37	1	37	6140	6570	F	GRAY	1.56	.65	2.1	\$ 210	\$ 109	\$ 6	\$ 27	\$ 0	\$ 56	\$340	300	\$ 87	\$ 1
S07-P-030	43	.99	42.5	6140	6550	E	HNDVNE	1.76	.7	2.31	\$ 210	\$ 33	\$ 4	\$ 30	\$ 0	\$ 171	\$340	300	\$ 103	\$ 87
S07-P-030	43	.99	42.5	6140	6550	E	S0ROLL	1.76	.7	2.31	\$ 210	\$ 55	\$ 18	\$ 11	\$ 0	\$ 153	\$340	300	\$ 103	\$ 50
S07-P-030	43	.99	42.5	6140	6550	E	GRAY	1.76	.65	2.1	\$ 210	\$ 111	\$ 6	\$ 10	\$ 0	\$ 61	\$340	300	\$ 78	\$ 15

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COLORADO RIE AGRICULTURAL ENGINEERING STUDY  
PRELIMINARY PIA ANALYSIS  
Piedra Wateruse

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PARCEL I.D.	FIELD ACREAGE			ELEVATION			CLIMATIC ZONE			IRRIG. SYSTEM			WATER REQUIREMENTS PER ACRE			PRELIMINARY ANNUAL PAYMENT CAPACITY PER ACRE			PRELIM. OFF-FARM WATER COST			RESIDUAL PRELIM. PAYMENT CAPACITY
	FIELD SIZE (ACRES)	REDUCTION FACTOR	NET ACREAGE	HIGH ELEV.	LOW ELEV.	CLIMATIC ZONE	IRRIG. SYSTEM TYPE	NET FEET	IRRIG. EFF.	APPLIED	PRELIMINARY NET AG. RETURN	ON-FARM IRIG. COSTS	CAPITAL	Maint.	Labor	PUMPING	PRELIM. PAYMENT CAPACITY	WATER SOURCE ELEV.	STATIC LIFT	ANNUAL POWER COST/ACRE		
S07-P-031	7	1	3	6100	6720	F	KKDNVE	1.56	.7	2.22	\$ 210	\$ 60	\$ 12	\$ 10	\$ 4	\$ 86	\$140	400	\$ 124	0-28		
S07-P-031	7	1	7	6100	6720	F	SDROLL	1.56	.7	2.22	\$ 210	\$ 172	\$ 40	\$ 22	\$ 0	\$ 45	\$140	400	\$ 124	0-170		
S07-P-031	7	1	7	6100	6720	F	GRAY	1.56	.65	2.1	\$ 210	\$ 134	\$ 12	\$ 24	\$ 0	\$ 26	\$140	400	\$ 103	0-71		
S10-P-032	6	1	6	6170	6140	D	KKDNVE	1.94	.7	2.77	\$ 270	\$ 88	\$ 11	\$ 37	\$ 0	\$ 131	\$130	40	\$ 116	0-85		
S10-P-032	6	1	6	6170	6140	D	SDROLL	1.94	.7	2.77	\$ 270	\$ 190	\$ 67	\$ 20	\$ 0	\$ 10	\$130	40	\$ 116	0-62		
S10-P-032	6	1	6	6120	6140	D	GRAY	1.94	.65	2.04	\$ 270	\$ 158	\$ 12	\$ 30	\$ 0	\$ 75	\$130	40	\$ 91	0-61		

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APPENDIX D.2  
OFF-FARM WATER COST

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

1278

=====
 File Name ---- P001  
 Parcel No. ---- 506-P-001  
 Net Acres ---- 26  
 Crop ----- ALF/BAR  
 Water Pay Cap - 163  
 System Type --- HANMOVE      Power rate \$/kwh --- .068605  
 Water System -- P001,P002      Interest rate ----- .08375  
 Date ----- 7/24/86      Project Life ----- 50

Facilities	Column	Column	Column	Column	Column	Capital	D & M	Power	Total
	A	B	C	D	E	Cost \$	Cost \$/yr	Cost \$/yr	Cost \$

**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

200	6	3939	13.00		51,207	256
					0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion flft,\$/ft) -----	39	210		8,190	41	
River Pump flgpm,TDH,ac ft/yr) ----	234	329	65.3	27,480	137	2,010
Booster flgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

**ACCESS ROADS: f(LF,\$/LF)**

0	.00	0	0
---	-----	---	---

**POWER LINE EXT: f(LF,\$/LF)**

0	.00	0	0
---	-----	---	---

**PIPELINE R/W: f(LF,\$/LF)**

0	.00	0	0
---	-----	---	---

**PUMP STA R/W: f(acres,\$/ac)**

0	0	0	0
---	---	---	---

Subtotal -----		86,827	434	2,010
Engineering, Administration, Legal, Contingencies 25% -----		21,707		
Total -----		108,534	434	2,010
Annualized Cost (50 yr @ 8.375%)-----		9,256	434	2,010
Less Incremental Water System Cost, Parcell(s) -----				
Parcel Total Annual Cost -----		9,256	434	2,010
Annual Cost Per Acre -----		356	17	77
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				163
Net Parcel Residual Water Payment Capacity -----				-287

UTE/OFFPIED

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**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

File Name ---- P002  
 Parcel No. ---- S06-P-002  
 Net Acres ---- 7  
 Crop ----- ALF/BAR  
 Water Pay Cap - 112  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P001,P002 Interest rate ----- .08375  
 Date ----- 7/25/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

**PIPELINE:**

Class f(diam,lf,\$/ft) -----

100	4	4000	10.50		42,000	210
200	6	1061	13.00		13,793	69
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	11	210		2,310	12	
River Pump f(gpm,TDH,ac ft/yr) ----	63	349	17.6	14,573	73	575
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

POWER LINE EXT: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0		0	0
---	---	--	---	---

Subtotal -----		72,676	363	575
Engineering, Administration, Legal, Contingencies 25% -----		18,169		
Total -----		90,845	363	575
Annualized Cost (50 yr @ 8.375%)-----		7,747	363	575
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		7,747	363	575
Annual Cost Per Acre -----		1,107	52	82
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				112
Net Parcel Residual Water Payment Capacity -----				-1,129

UTE/OFFPIED

1280

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

File Name ---- P003  
 Parcel No. ---- 506-P-003  
 Net Acres ---- 39  
 Crop ----- ALF/BAR  
 Water Pay Cap - 167  
 System Type --- HANMOVE Power rate \$/lwh --- .069605  
 Water System -- P003 Interest rate ----- .03375  
 Date ----- 7/25/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

100	6	50	12.00		600	3
			.00		0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	50	210		10,500	53	
River Pump f(gpm,TDH,ac ft/yr) -----	297	169	82.8	28,121	141	1,309
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF) 0 .00 0 0

POWER LINE EXT: f(LF,\$/LF) 0 .00 0 0

PIPELINE R/W: f(LF,\$/LF) 0 .00 0 0

PUMP STA R/W: f(acres,\$/acre) 0 0 .00 0 0

Subtotal -----		39,221	196	1,309	
Engineering, Administration, Legal, Contingencies 25% -----		9,805			
Total -----		49,027	196	1,309	
Annualized Cost (50 yr @ 8.375%) -----		4,181	196	1,309	
Less Incremental Water System Cost, Parcel(s) -----					
Parcel Total Annual Cost -----		4,181	196	1,309	5,687
Annual Cost Per Acre -----		127	6	40	172
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----					167
Net Parcel Residual Water Payment Capacity -----					-5

UTE/UFFPIED

1281

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

=====  
File Name ---- P004  
Parcel No. ---- 506-P-004  
Net Acres ---- 24  
Crop ----- ALF/BAR  
Water Pay Cap - 164  
System Type --- HANDMOVE      Power rate \$/kwh --- .068605  
Water System -- P004      Interest rate ----- .08375  
Date ----- 7/24/86      Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

**PIPELINE.**

Class f(diam,LF,\$/ft) -----

200	6	300	13.00	.00	3,900	20
					0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	0	210	.00	0	0	
River Pump f(gpm,TDH,ac ft/yr) -----	216	330	60.2	26,337	132	1,859
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----	30,237	151	1,859
Engineering, Administration, Legal, Contingencies 25% -----	7,559		
Total -----	37,796	151	1,859
Annualized Cost (50 yr @ 8.375%)-----	3,223	151	1,859
Less Incremental Water System Cost, Parcel(s) -----			
Parcel Total Annual Cost -----	3,223	151	1,859
Annual Cost Per Acre -----	134	6	77
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----			
Net Parcel Residual Water Payment Capacity -----			-54

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

**1282**

File Name ---- P005  
 Parcel No. ---- 506-P-005  
 Net Acres ---- 29  
 Crop ----- ALF/BAR  
 Water Pay Cap - 165  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P005 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

150	6	50	12.50		625	3
			.00		0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	0	210		0	0	
River Pump f(gpm,TDH,ac ft/yr) ----	261	189	72.8	26,768	134	1,288
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS. f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

POWER LINE EXT. f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----		27,393	137	1,288
Engineering, Administration, Legal, Contingencies 25% -----		6,848		
Total -----		34,242	137	1,288
Annualized Cost (50 yr @ 8.375%)-----		2,920	137	1,288
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		2,920	137	1,288
Annual Cost Per Acre -----		101	5	44
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				165
Net Parcel Residual Water Payment Capacity -----				15

UTE/OFFPIED

1283

COST SUMMARY  
OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

File Name ---- P006  
 Parcel No. ---- 506-P-006  
 Net Acres ---- 14  
 Crop ----- ALF/BAR  
 Water Pay Cap - 147  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P006 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE:

Class f(diam,lf,\$/ft) -----

100	4	50	10.50		525	3
			.00		0	0
					0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(ft,\$/ft) -----	0	210		0	0	
River Pump f(gpm,TDH,ac ft/yr) ----	126	149	85	18,771	94	488
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF) 0 .00 0 0

POWER LINE EXT: f(LF,\$/LF) 0 .00 0 0

PIPELINE R/W: f(LF,\$/LF) 0 .00 0 0

PUMP STA R/W: f(acres,\$/ac) 0 0 0 0

Subtotal -----		19,296	96	488
Engineering, Administration, Legal, Contingencies 25% -----		4,824		
Total -----		24,120	96	488
Annualized Cost (50 yr @ 8.375%) -----		2,057	96	488
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		2,057	96	488
Annual Cost Per Acre -----		147	7	35
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				147
Net Parcel Residual Water Payment Capacity -----				-42

UTE/OFFPIED

1284

COST SUMMARY  
OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

File Name ---- P007

Parcel No. ---- 506-P-007

Net Acres ---- 101.9

Crop ----- ALF/BAR

Water Pay Cap - 169

System Type --- HANMOVE

Power rate \$/kwh --- .068605

Water System -- P007

Interest rate ----- .08375

Date ----- 7/24/86

Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE:

Class f(diam,lf,\$/ft) -----

100	10	50	20.00		1,000	5
			.00		0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(ft,\$/ft) -----

50 210

10,500 53

River Pump f(gpm,TDH,ac ft/yr) ----

917 169 255.8

49,548 248

Booster f(gpm,TDH,ac ft/yr) -----

0 0 0

0 0 0

ACCESS ROADS: f(LF,\$/LF)

0 .00

0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00

0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00

0 0

PUMP STA R/W: f(acres,\$/ac)

0 0

0 0

Subtotal -----		61,048	305	4,045
Engineering, Administration, Legal, Contingencies 25% -----		15,262		
Total -----		76,310	305	4,045
Annualized Cost (50 yr @ 8.375%)-----		6,508	305	4,045
Less Incremental Water System Cost, Parcells) -----				
Parcel Total Annual Cost -----		6,508	305	4,045
Annual Cost Per Acre -----		64	3	40
Parcel Crop Payment Capacity (Input negative numbers with a -) -----				169
Net Parcel Residual Water Payment Capacity -----				62

UTE/OFFPIED

1285

COST SUMMARY  
OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

=====  
 File Name ---- P008  
 Parcel No. ---- 506-P-008  
 Net Acres ---- 6  
 Crop ----- ALF/BAR  
 Water Pay Cap - 105  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P008 Interest rate ----- .06375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE:

Class f(diam,LF,\$/ft) -----

150	4	400	11.00		4,400	22
			.00		0	0
					0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion fl(ft,\$/ft) -----	0	210		0	0	
River Pump fl(gpm,TDH,ac ft/yr) ----	54	190	15.1	13,079	65	268
Booster fl(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

## ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----		17,479	87	268
Engineering, Administration, Legal, Contingencies 25% -----		4,370		
<b>Total -----</b>		<b>21,849</b>	<b>87</b>	<b>268</b>
Annualized Cost (50 yr @ 8.375%)-----		1,863	87	268
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		1,863	87	268
Annual Cost Per Acre -----		311	15	45
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				105
Net Parcel Residual Water Payment Capacity -----				-265

UTE/OFFPIED

**COST SUMMARY  
OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION**

1286

=====

File Name ---- P009  
 Parcel No. ---- 506-P-009  
 Net Acres ---- 73.2  
 Crop ----- ALF/BAR  
 Water Pay Cap - 170  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P009 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

---

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O G M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

---

**PIPELINE.**

Class f(diam,Lf,\$/ft) -----

150	8	600	16.00		9,600	48
			.00		0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion flft,\$/ft) -----	50	210		10,500	53	
River Pump flgpm,TDH,ac ft/yr) ----	659	233	183.7	44,387	222	4,005
Booster flgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0 .00 0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00 0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00 0 0

PUMP STA R/W: f(acres,\$/ac)

0 0 0 0

---

Subtotal -----		64,487	322	4,005
Engineering, Administration, Legal, Contingencies 25% -----		16,122		
<b>Total -----</b>		<b>80,609</b>	<b>322</b>	<b>4,005</b>
Annualized Cost (50 yr @ 8.375%)-----		6,874	322	4,005
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		6,874	322	4,005
Annual Cost Per Acre -----		94	4	55
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				170
Net Parcel Residual Water Payment Capacity -----				17

UTE/OFFPIED

## COST SUMMARY

OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

1287

File Name ---- P010  
 Parcel No. ---- 506-P-010  
 Net Acres ---- 9  
 Crop ----- ALF/BAR  
 Water Pay Cap - 126  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P010 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE:

Class f(diam,Lf,\$/ft) -----

150	4	1400	11.00		15,400	77
			.00		0	0
					0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(lf,\$/ft) -----	0	210		0	0	
River Pump f(lgpm,TDH,ac ft/yr) ----	81	209	22.6	15,726	79	442
Booster f(lgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----		31,126	156	442
Engineering, Administration, Legal, Contingencies 25% -----		7,782		
Total -----		38,908	156	442
Annualized Cost (50 yr @ 8.375%)-----		3,318	156	442
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		3,318	156	442
Annual Cost Per Acre -----		369	17	49
Parcel Crop Payment Capacity (Input negative numbers with a -) -----				126
Net Parcel Residual Water Payment Capacity -----				-309

UTE/OFFPIED

## COST SUMMARY

1288

OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

File Name ---- P011  
 Parcel No. ---- 506-P-011  
 Net Acres ---- 9  
 Crop ----- ALF/BAR  
 Water Pay Cap - 126  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P011 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	D & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE:

Class f(diam,lf,\$/ft) -----

100	4	50	10.50		525	3
			.00		0	0
					0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(lf,\$/ft) -----	0	210		0	0	
River Pump f(lgpm,TDH,ac ft/yr) ----	81	164	22.6	15,517	78	347
Booster f(lgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

## ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

## PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----	16,042	80	347
Engineering, Administration, Legal, Contingencies 25% -----	4,010		
Total -----	20,052	80	347
Annualized Cost (50 yr @ 8.375%)-----	1,710	80	347
Less Incremental Water System Cost, Parcel(s) -----			
Parcel Total Annual Cost -----	1,710	80	347
Annual Cost Per Acre -----	190	9	39
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----			126
Net Parcel Residual Water Payment Capacity -----			-111

UTE/OFFPIED

## COST SUMMARY

1289

OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

File Name ---- P012  
 Parcel No. ---- 506-P-012  
 Net Acres ---- 17  
 Crop ----- ALF/BAR  
 Water Pay Cap - 154  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P012 Interest rate ----- .08975  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

## PIPELINE.

Class f(diam,LF,\$/ft) -----

350	4	10300	13.00		140,400	762
			.00		0	0
					0	0
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(ft,\$/ft) -----	0	210			0	0	
River Pump f(gpm,TDH,ac ft/yr) ----	153	711	42.7		25,779	129	2,841
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0		0	0	0

## ACCESS ROADS: f(LF,\$/LF)

0	.00			0	0
---	-----	--	--	---	---

## POWER LINE EXT: f(LF,\$/LF)

0	.00			0	0
---	-----	--	--	---	---

## PIPELINE R/W: f(LF,\$/LF)

0	.00			0	0
---	-----	--	--	---	---

## PUMP STA R/W: f(acres,\$/ac)

0	0			0	0
---	---	--	--	---	---

Subtotal -----		166,179	831	2,841
Engineering, Administration, Legal, Contingencies 25% -----		41,545		
Total -----		207,723	831	2,841
Annualized Cost (50 yr @ 8.375%)-----		17,714	831	2,841
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		17,714	831	2,841
Annual Cost Per Acre -----		1,042	49	167
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				154
Net Parcel Residual Water Payment Capacity -----				-1,104

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

1290

File Name ---- P017  
 Parcel No. ---- S07-P-017  
 Net Acres ---- 23  
 Crop ----- ALF/BAR  
 Water Pay Cap - 137  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
------------	----------	----------	----------	----------	----------	-----------------	------------------	------------------	---------------

**PIPELINE:**

Class f(diam,lf,\$/ft) -----

150	6	1400	12.50		17,500	98
200	8	1698	17.00		27,846	139
200	10	1054	22.50		23,715	119
200	14	658	35.00		29,030	115
350	20	742	75.00		55,650	278
					0	0

**PUMP STATION:**

Diversion fl(ft,\$/ft) -----	3	210		630	3	
River Pump fl(gpm,TDH,ac ft/yr) -----	207	720	51.1	30,889	154	3,443
Booster fl(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0 .00 0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00 0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00 0 0

PUMP STA R/W: f(acres,\$/ac)

0 0 0 0

Subtotal -----		179,260	896	3,443
Engineering, Administration, Legal, Contingencies 25% -----		44,815		
Total -----		224,075	896	3,443
Annualized Cost (50 yr @ 8.375%) -----		19,109	896	3,443
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		19,109	896	3,443
Annual Cost Per Acre -----		831	39	150
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				137
Net Parcel Residual Water Payment Capacity -----				-882

UTE/OffPIED

1291

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

=====  
File Name ---- P018  
Parcel No. ---- 507-P-018  
Net Acres ---- 35  
Crop ----- ALF/BAR  
Water Pay Cap - 141  
System Type --- HANMOVE Power rate \$/kwh --- .068605  
Water System -- P017-P030 Interest rate ----- .08375  
Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diam,LF,\$/ft) -----

200	8	2492	17.00		42,364	212
200	10	1604	22.50		36,990	180
200	14	1001	35.00		35,035	175
350	20	1130	75.00		84,750	424
					0	0
					0	0

**PUMP STATION:**

Diversion fl(ft,\$/ft) -----	4	210		840	4	
River Pump fl(gpm,TDH,ac ft/yr) ----	315	635	77.7	38,286	191	4,617
Booster fl(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

**ACCESS ROADS: f(LF,\$/LF)**

0	.00		0	0
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**POWER LINE EXT: f(LF,\$/LF)**

0	.00		0	0
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**PIPELINE R/W: f(LF,\$/LF)**

0	.00		0	0
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**PUMP STA R/W: f(acres,\$/ac)**

0	0		0	0
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Subtotal -----		237,365	1,187	4,617
Engineering, Administration, Legal, Contingencies 25% -----		59,341		
Total -----		296,706	1,187	4,617
Annualized Cost (50 yr @ 8.375%)-----		25,303	1,187	4,617
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		25,303	1,187	4,617
Annual Cost Per Acre -----		723	34	132
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				141
Net Parcel Residual Water Payment Capacity -----				-748

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

File Name ---- P020  
 Parcel No. ---- 507-P-020  
 Net Acres ---- 13  
 Crop ----- ALF/BAR  
 Water Pay Cap - 118  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .09375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diaaa,Lf,\$/ft) -----

200	8	567	17.00		9,639	48
200	10	596	22.50		13,410	67
200	14	372	35.00		13,020	65
350	20	420	75.00		31,500	158
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	1	210		210	1	
River Pump f(gpm,TDH,ac ft/yr) ----	117	569	28.9	21,129	106	1,539
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

POWER LINE EXT: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00		0	0
---	-----	--	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0		0	0
---	---	--	---	---

Subtotal -----		88,908	445	1,539
Engineering, Administration, Legal, Contingencies 25% -----		22,227		
Total -----		111,135	445	1,539
Annualized Cost (50 yr @ 8.375%)-----		9,477	445	1,539
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		9,477	445	1,539
Annual Cost Per Acre -----		729	34	118
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				118
Net Parcel Residual Water Payment Capacity -----				-764

UTE/OFFPIED

1293

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

File Name ---- P021  
 Parcel No. ---- 507-P-021  
 Net Acres ---- 11  
 Crop ----- ALF/BAR  
 Water Pay Cap - 113  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

200	8	402	17.00		6,334	34
200	10	504	22.50		11,340	57
200	14	315	35.00		11,025	55
350	20	355	75.00		26,625	133
					0	0
					0	0

**PUMP STATION:**

Diversion fl(ft,\$/ft) -----	1	210		210	1	
River Pump fl(gpm,TDH,ac ft/yr) ----	99	566	24.4	19,340	97	1,292
Booster fl(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0 .00 0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00 0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00 0 0

PUMP STA R/W: f(acres,\$/ac)

0 0 0 0

Subtotal -----		75,374	377	1,292
Engineering, Administration, Legal, Contingencies 25% -----		18,843		
Total -----		94,217	377	1,292
Annualized Cost (50 yr @ 8.375%)-----		8,035	377	1,292
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		8,035	377	1,292
Annual Cost Per Acre -----		730	34	117
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				113
Net Parcel Residual Water Payment Capacity -----				-769

UTE/OFFPIED

1294

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

=====  
File Name ---- P029  
Parcel No. ---- 507-P-029  
Net Acres ---- 113.8  
Crop ----- ALF/BAR  
Water Pay Cap - 142  
System Type --- HANMOUE Power rate \$/kwh --- .068605  
Water System -- P017-P030 Interest rate ----- .08375  
Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class #(diam,Lf,\$/ft) -----

200	14	3255	35.00		113,925	570
350	20	3673	75.00		275,475	1,377
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversions lf/ft) -----	12	210		2,520	13	
River Pump f(gpm,TDH,ac ft/yr) ----	1024	506	252.6	75,736	379	11,961
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0 .00 0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00 0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00 0 0

PUMP STA R/W: f(acres,\$/ac)

0 0 0 0

Subtotal -----	467,656	2,338	11,961	
Engineering, Administration, Legal, Contingencies 25% -----	116,914			
Total -----	584,570	2,338	11,961	
Annualized Cost (50 yr @ 8.375%)-----	49,852	2,338	11,961	
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----	49,852	2,338	11,961	64,150
Annual Cost Per Acre -----	438	21	105	564
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				142
Net Parcel Residual Water Payment Capacity -----				-422

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

1295

File Name ---- P024  
 Parcel No. ---- 507-P-024  
 Net Acres ---- 14  
 Crop ----- ALF/BAR  
 Water Pay Cap - 120  
 System Type --- HANMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

200	10	642	22.50		14,445	72
200	14	400	35.00		14,000	70
350	20	452	75.00		33,900	170
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	2	210		420	2	
River Pump f(gpm,TDH,ac ft/yr) ----	126	572	31.1	22,001	110	1,665
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0 .00 0 0

POWER LINE EXT: f(LF,\$/LF)

0 .00 0 0

PIPELINE R/W: f(LF,\$/LF)

0 .00 0 0

PUMP STA R/W: f(acres,\$/ac)

0 0 0 0

Subtotal -----	84,766	424	1,665	
Engineering, Administration, Legal, Contingencies 25% -----	21,191			
Total -----	105,957	424	1,665	
Annualized Cost (50 yr @ 8.375%)-----	9,036	424	1,665	
Less Incremental Water System Cost, Parcell(s) -----				
Parcel Total Annual Cost -----	9,036	424	1,665	11,124
Annual Cost Per Acre -----	645	30	119	795
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				120
Net Parcel Residual Water Payment Capacity -----				-675

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

**1296**

File Name ---- P025  
 Parcel No. ---- 507-P-025  
 Net Acres ---- 64.3  
 Crop ----- ALF/BAR  
 Water Pay Cap - 144  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .08975  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$	Total Cost \$
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**PIPELINE:**

Class f(diam,lf,\$/ft) -----

150	8	1600	15.50		24,800	124
150	10	4486	21.00		94,206	471
150	12	1368	26.50		36,252	181
350	20	2076	75.00		155,700	779
					0	0
					0	0

**PUMP STATION:**

Diversion f(lf,\$/ft) -----	7	210		1,470	7	
River Pump f(gpm,TDH,ac ft/yr) ----	579	702	142.8	59,388	297	9,381
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

**ACCESS ROADS: f(LF,\$/LF)**

0	.00	0	0
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**POWER LINE EXT: f(LF,\$/LF)**

0	.00	0	0
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**PIPELINE R/W: f(LF,\$/LF)**

0	.00	0	0
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**PUMP STA R/W: f(acres,\$/ac)**

0	0	0	0
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Subtotal -----	371,816	1,859	9,381	
Engineering, Administration, Legal, Contingencies 25% -----	92,954			
Total -----	464,770	1,859	9,381	
Annualized Cost (50 yr @ 8.375%)-----	39,635	1,859	9,381	
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----	39,635	1,859	9,381	50,875
Annual Cost Per Acre -----	616	29	146	791
Parcel Crop Payment Capacity (Input negative numbers with a -) -----				144
Net Parcel Residual Water Payment Capacity -----				-647

UTE/OFFPIED

## COST SUMMARY

1297

OFF FARM IRRIGATION FACILITIES  
SOUTHERN UTE INDIAN RESERVATION

File Name ---- P026  
 Parcel No. ---- 507-P-026  
 Net Acres ---- 47.5  
 Crop ----- ALF/BAR  
 Water Pay Cap - 144  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P017-P030 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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## PIPELINE:

Class f(diam,lf,\$/ft) -----

150	10	3314	21.00		69,594	348
150	12	1011	26.50		26,792	134
350	20	1534	75.00		115,050	575
					0	0
					0	0
					0	0

## PUMP STATION:

Diversion f(lf,\$/ft) -----	5	210		1,050	5	
River Pump f(gpm,TDH,ac ft/yr) ----	428	735	105.5	49,334	247	7,256
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
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POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
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PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----	261,819	1,309	7,256
Engineering, Administration, Legal, Contingencies 25% -----	65,455		
Total -----	327,274	1,309	7,256
Annualized Cost (50 yr @ 8.375%)-----	27,910	1,309	7,256
Less Incremental Water System Cost, Parcel(s) -----			
Parcel Total Annual Cost -----	27,910	1,309	7,256
Annual Cost Per Acre -----	588	28	153
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----			144
Net Parcel Residual Water Payment Capacity -----			-624

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

1298

=====  
File Name ---- P028  
Parcel No. ---- 507-P-028  
Net Acres ---- 57.4  
Crop ----- ALF/BAR  
Water Pay Cap - 170  
System Type --- HANMOVE Power rate \$/kwh --- .068605  
Water System -- P017-P030 Interest rate ----- .08375  
Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(dia,Lf,\$/ft) -----

150	12	1221	26.50		32,357	162
350	20	1853	75.00		138,975	695
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion flft,\$/ft) -----	6	210		1,260	6	
River Pump flgpm,TDH,ac ft/yr) ----	517	497	144.1	47,852	239	6,702
Booster flgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
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POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
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PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
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Subtotal -----	220,443	1,102	6,702	
Engineering, Administration, Legal, Contingencies 25% -----	55,111			
Total -----	275,554	1,102	6,702	
Annualized Cost (50 yr @ 8.375%)-----	23,499	1,102	6,702	
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----	23,499	1,102	6,702	31,303
Annual Cost Per Acre -----	409	19	117	545
Parcel Crop Payment Capacity (Input negative numbers with a -) -----				170
Net Parcel Residual Water Payment Capacity -----				-375

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

**1299**

=====

File Name ---- P029  
 Parcel No. ---- 507-P-029  
 Net Acres ---- 37  
 Crop ----- ALF/BAR  
 Water Pay Cap - 142  
 System Type --- HANDMOVE      Power rate \$/kwh --- .068605  
 Water System -- P017-P030      Interest rate ----- .08375  
 Date ----- 7/24/86      Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

200	14	600	35.00		21,000	105
350	20	1194	75.00		89,550	448
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	4	210		840	4	
River Pump f(gpm,TDH,ac ft/yr) ----	333	498	82.1	36,653	183	3,826
Booster f(gpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

**ACCESS ROADS: f(LF,\$/LF)**

0 .00      0 0

**POWER LINE EXT: f(LF,\$/LF)**

0 .00      0 0

**PIPELINE R/W: f(LF,\$/LF)**

0 .00      0 0

**PUMP STA R/W: f(acres,\$/acre)**

0 0      0 0

=====

Subtotal -----		148,043	740	3,826
Engineering, Administration, Legal, Contingencies 25% -----		37,011		
Total -----		185,054	740	3,826
Annualized Cost (50 yr @ 8.375%)-----		15,781	740	3,826
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		15,781	740	3,826
Annual Cost Per Acre -----		427	20	103
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				142
Net Parcel Residual Water Payment Capacity -----				-408

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

1300

=====  
File Name ---- P030  
Parcel No. ---- 507-P-030  
Net Acres ---- 42.5  
Crop ----- ALF/BAR  
Water Pay Cap - 171  
System Type --- HANDMOVE Power rate \$/kwh --- .068605  
Water System -- P017-P030 Interest rate ----- .08375  
Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$	Power Cost \$	Total Cost \$
						\$/yr	#/yr		

**Pipeline:**

Class f(diam,lf,\$/ft) -----

350	20	1372	75.00	102,900	515
				0	0
				0	0
				0	0
				0	0
				0	0

**PUMP STATION:**

Diversion flft,\$/ft) -----	5	210		1,050	5	
River Pump flgpm,TDH,ac ft/yr) ----	383	482	106.7	39,433	197	4,813
Booster flgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

**ACCESS ROADS: f(LF,\$/LF)**

0 .00 0 0

**POWER LINE EXT: f(LF,\$/LF)**

0 .00 0 0

**PIPELINE R/W: f(LF,\$/LF)**

0 .00 0 0

**PUMP STA R/W: f(acres,\$/ac)**

0 0 0 0

Subtotal -----	143,383	717	4,813	
Engineering, Administration, Legal, Contingencies 25% -----	35,846			
Total -----	179,229	717	4,813	
Annualized Cost (50 yr @ 8.375%)-----	15,284	717	4,813	
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----	15,284	717	4,813	20,814
Annual Cost Per Acre -----	360	17	113	490
Parcel Crop Payment Capacity (Input negative numbers with a - ) -----				171
Net Parcel Residual Water Payment Capacity -----				-319

UTE/OFFPIED

**COST SUMMARY**  
**OFF FARM IRRIGATION FACILITIES**  
**SOUTHERN UTE INDIAN RESERVATION**

**1301**

File Name ---- P032  
 Parcel No. ---- 507-P-032  
 Net Acres ---- 6  
 Crop ----- ALF/BAR  
 Water Pay Cap - 131  
 System Type --- HANDMOVE Power rate \$/kwh --- .068605  
 Water System -- P032 Interest rate ----- .08375  
 Date ----- 7/24/86 Project Life ----- 50

Facilities	Column A	Column B	Column C	Column D	Column E	Capital Cost \$	O & M Cost \$/yr	Power Cost \$/yr	Total Cost \$
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**PIPELINE:**

Class f(diam,Lf,\$/ft) -----

150	4	100	11.00		1,100	6
					0	0
					0	0
					0	0
					0	0
					0	0

**PUMP STATION:**

Diversion f(ft,\$/ft) -----	0	210		0	0	
River Pump f(lgpm,TDH,ac ft/yr) ----	61	189	16.6	13,793	69	294
Booster f(lgpm,TDH,ac ft/yr) -----	0	0	0	0	0	0

ACCESS ROADS: f(LF,\$/LF)

0	.00	0	0
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POWER LINE EXT: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PIPELINE R/W: f(LF,\$/LF)

0	.00	0	0
---	-----	---	---

PUMP STA R/W: f(acres,\$/ac)

0	0	0	0
---	---	---	---

Subtotal -----		14,893	74	294
Engineering, Administration, Legal, Contingencies 25% -----		3,723		
Total -----		18,616	74	294
Annualized Cost (50 yr @ 8.375%)-----		1,588	74	294
Less Incremental Water System Cost, Parcel(s) -----				
Parcel Total Annual Cost -----		1,588	74	294
Annual Cost Per Acre -----		265	12	49
Parcel Crop Payment Capacity (Input negative numbers with a -) -----				131
Net Parcel Residual Water Payment Capacity -----				-195