TABLE 1. Acreage Summary, Otero County,
Projected 2017

BUDGET AREA........ TULAROSA BASIN, OTERO COUNTY
FARM SIZE........... 50 ACRES
IRRIGATION TYPE....... SPRINKLER
NUMBER OF CROPS.... 3

|   |                                    | -                        | WATER               | USE                     |  |  |  |  |
|---|------------------------------------|--------------------------|---------------------|-------------------------|--|--|--|--|
| ACREAGE SUMMARY:  |                                    | LAND USE<br>(ACRES)      | AC.IN.<br>PER AC.   | TOTAL<br>AC.IN.         |  |  |  |  |
| ALFALFA ESTABLISHMENT<br>ALFALFA HAY<br>OAT HAY<br>SORGHUMSUDAN<br>ROADS, DITCHES,<br>HOMESTEAD |                                    | 4.00 * 40.00 5.00 5.00 * | 8<br>45<br>18<br>16 | 32<br>1,800<br>90<br>80 |  |  |  |  |
|   | TOTAL                              | 50.00                    |                     | 2,002                   |  |  |  |  |
|   | ACRE FEET PER ACRE OF WATER RIGHTS |                          |                     |                         |  |  |  |  |

<sup>\*</sup> DOUBLE-CROPPED

TABLE 2. Basic cost information for Tularosa Basin, Otero County, Projected 2017

| Item                            |          |                |           |         |
|---------------------------------|----------|----------------|-----------|---------|
| Labor Wage Rate:                |          |                |           |         |
| Equipment operators             |          | \$/hour        |           | \$7.50  |
| General & Irrigators            |          | \$/hour        |           | \$7.50  |
|                                 |          |                |           |         |
| Purchased Inputs:               |          |                |           |         |
| Fertilizer:                     |          |                |           |         |
| Nitrogen (N)                    |          | \$/pound       |           | \$0.22  |
| Seed:                           |          |                |           | 00.05   |
| Alfalfa                         |          | \$/pound       |           | \$3.05  |
| Oats for Hay                    |          | \$/pound       |           | \$0.34  |
| Natural Gas (Gas NM)            |          | \$/MCF         |           | \$4.01  |
| (service charge)                |          | \$/month       |           | \$10.00 |
| Diesel fuel                     |          | \$/gallon      |           | \$2.35  |
| Gasoline                        |          | \$/gallon      |           | \$2.10  |
| Electricity (Otero Coop)        |          | cents/KwHr     |           | 7.34    |
| Employee Liability Insurance    |          | \$/\$1,000 wa  | ages      | \$12.00 |
| Employee Benefits               |          | percent/wag    | ges       | 12.00%  |
| Labor Downtime                  |          | percent        |           | 25.00%  |
| Financial Rates:                |          |                |           |         |
| Operating Capital Interest Rate |          | percent        |           | 5.50%   |
| Land Interest Rate              |          | percent        |           | 5.00%   |
| Equipment Interest Rate         |          | percent        |           | 5.50%   |
| Expected Inflation Rate         |          | percent        |           | 3.00%   |
|                                 |          | F              |           |         |
| Land Taxes                      | \$300.00 | /acre (full va | alue)     | \$3.22  |
| Personal Property Tax Rate      | - NR     | \$/\$1,000     | (Assessed | \$32.16 |
| . ,                             | - R      |                | Value)    | \$24.48 |
| Supervision Factors             |          |                |           |         |
| Field Crop-Irrigation           |          | \$/acre        |           | \$1.00  |
| Field Crop-Equipment & General  |          | \$/acre        |           | \$0.50  |
| Management Rate                 |          | percent        |           | 4.00%   |
| -                               |          | •              |           |         |

TABLE 3. Overhead cost information for Tularosa Basin, Otero County, Projected 2017

| Item                       |          |   |                        |           |          |
|----------------------------|----------|---|------------------------|-----------|----------|
| Electricity (Domestic & S  | hop)     |   | \$78.65                | per month | \$944    |
| Telephone                  |          |   | \$84.70                | per month | \$1,016  |
| Accounting & Legal         |          |   |                        |           | \$182    |
| Misc. Supplies & Hand T    | ools     |   |                        |           | \$629    |
| Pickup and Auto            |          |   |                        |           |          |
| miles                      | 6,232    | @ | \$0.500 per mile       |           | \$3,116  |
| Insurance                  |          |   |                        |           |          |
| - general liability (non-e | mployee) |   |                        |           | \$290    |
| - fire/theft               |          |   |                        |           | \$194    |
| Property Taxes             |          |   |                        |           |          |
| - non-planted land         |          |   |                        |           | \$0      |
| - other than land & mad    | hinery   |   |                        |           | \$6,010  |
| Building repairs and mair  | ntenance |   |                        |           | \$290    |
| Dues, fees, publications   |          |   |                        |           | \$157    |
| Farmstead Equipment        |          |   |                        |           | \$194    |
|                            |          |   |                        | Total     | \$13,022 |
|                            |          |   | Total per planted acre |           | \$289.38 |

## | TABLE | Propriety and and the Inspector state, Learns Association | TABLE | Propriety and Association | TABLE | Propriety and Association | TABLE |

| EQUIPMENT        |       |                           |        |                |                        | VARIABLE | COSTS               |                  | FD0          | ED COSTS | D COSTS         |  |
|------------------|-------|---------------------------|--------|----------------|------------------------|----------|---------------------|------------------|--------------|----------|-----------------|--|
| ITEM & SIZE      |       | ANNUAL<br>HOURS OF<br>USE | NUMBER | TOTAL<br>VALUE | FUEL, OL,<br>LUBRICANT | REPAR    | FUEL, OIL<br>PER HR | REPAIR<br>PER HR | DEPRECIATION | TAXES    | TOTAL<br>PER HR |  |
| TRACTOR          | 50 HP | 122                       |        | \$7,000        | \$958                  | \$132    | \$7.85              | \$1.06           | \$899        | \$96     | \$8.19          |  |
| BALEWAGON, PTO   | 30 10 | 43                        | - :    | \$1,500        | 4400                   | \$55     | 41.00               | \$1.25           | \$800        | \$86     | \$20.60         |  |
| BALER, PTO       | 2 WRE | 45                        | - 1    | \$1,600        |                        | 57       |                     | \$0.15           | \$385        | \$41     | \$9.44          |  |
| PLOW             | 2 BTM | 4                         | - 1    | \$250          |                        | \$1      |                     | \$0.31           | \$33         | \$3      | \$8.57          |  |
| FLOAT            | 8 FT  | 9                         | 1      | \$400          |                        | \$0      |                     | \$0.01           | \$40         | \$3      | \$4.82          |  |
| DISC             | 8 FT  | 12                        | 1      | \$700          |                        | \$11     |                     | \$0.87           | \$93         | \$6      | \$5.00          |  |
| SPRINKLER        |       | 3,020                     | 1      | \$2,500        |                        | \$0      |                     | \$0.00           | \$333        | \$27     | \$0.12          |  |
| DRILL            | 12 FT | 3                         | 1      | \$2,200        |                        | \$3      |                     | \$1.06           | \$440        | \$24     | \$157.60        |  |
| SWATHER          | 14 FT | 34                        | 1      | \$2,100        |                        | \$10     |                     | \$0.26           | \$700        | \$75     | \$22.53         |  |
| VATURAL GAS WELL | -     | 3,020                     | 1      | \$13,025       | \$4,709                | \$0      | \$1.56              | \$0.00           | \$1,042      | \$140    | \$0.4           |  |
|                  |       |                           |        | \$31,275       | \$5,667                | \$219    |                     |                  | \$4.766      | \$502    |                 |  |

|                  |       |          | EQUIPMENT   |       |       |         |         |      |          |       |          |        | USAGE LI      | ST    |           |          |
|------------------|-------|----------|-------------|-------|-------|---------|---------|------|----------|-------|----------|--------|---------------|-------|-----------|----------|
|                  |       |          | LUCUS MERTI | Ligi  |       |         |         |      |          |       |          |        |               | OATS  | SORGHUM   |          |
|                  |       |          |             |       |       |         |         |      |          |       |          | ALFALF |               | FOR   | SUDAN     | PER ACRE |
|                  |       | NEW      | USED        | YEARS | EQUIP | MAX     | FUEL    | LUBE | ACCUM    |       | INTEREST | ES     | T. HAY        | HAY   | HAY       | TOTALS   |
| ITEM             |       | VALUE    | VALUE       | LFE   | CODE  | HOURS   | UNIT/HR | COEF | HOURS    | AGE   | EXPENSE  |        |               |       |           |          |
|                  |       |          |             |       |       |         |         |      |          |       |          |        | ours per acre |       |           |          |
| TRACTOR          | 50 HP | 17975.00 | 7000.00     | 20.00 | 1.00  | 800.00  | 3.40    | 0.10 | 1829.70  | 15.00 | 494.31   | 3.0    | 7 2.05        | 3.48  | 2.05      | 10.65    |
| BALEWAGON, PTO   |       | 16000.00 | 1500.00     | 20.00 | 5.00  | 800.00  |         |      | 258.00   | 6.00  | 440.00   | 0.0    | 0 1.00        | 0.20  | 0.4       | 1.60     |
| BALER, PTO       | 2 WRE | 7700.00  | 1500.00     | 20.00 | 2.00  | 500.00  |         |      | 812.70   | 18.00 | 211.75   | 0.0    | 0 1.05        | 0.21  | 0.42      | 1.65     |
| PLOW             | 2 BTM | 500.00   | 250.00      | 15.00 | 3.00  | 300.00  |         |      | 67.20    | 16.00 | 13.75    | 1.0    | 5 0.00        | 0.00  |           | 1.05     |
| FLOAT            | 8 FT  | 600.00   | 400.00      | 15.00 | 4.00  | 300.00  |         |      | 134.40   | 15.00 | 16.50    | 0.0    | 4 0.00        | 0.64  | 0.64      | 1.92     |
| DISC             | 8 FT  | 1400.00  | 700.00      | 15.00 | 3.00  | 300.00  |         |      | 199.55   | 15.00 | 38.50    | 1.1    | 7 0.00        | 1.17  | 0.39      | 2.73     |
| SPRINKLER        |       | 5000.00  | 2500.00     | 15.00 | 0.00  | 8742.00 |         |      | 45305.26 | 15.00 | 137.50   | 12.0   | 7 67.89       | 27.15 | 24.135889 | 131.24   |
| DRELL            | 12 FT | 4400.00  | 2200.00     | 10.00 | 8.00  | 100.00  |         |      | 38.22    | 13.00 | 121.00   | 0.2    | 1 0.00        | 0.21  | 0.21      | 0.63     |
| SWATHER          | 14 FT | 14000.00 | 2100.00     | 20.00 | 2.00  | 800.00  |         |      | 447.20   | 13.00 | 385.00   | 0.0    | 0.80          | 0.16  | 0.32      | 1.25     |
| NATURAL GAS WELL |       | 26050.00 | 13025.00    | 25.00 | 0.00  | 8742.00 |         |      | 45305.26 | 15.00 | 716.38   | 12.0   | 7 67.89       | 27.15 | 24.135889 | 131.24   |
|                  |       |          |             |       |       |         |         |      |          |       |          |        |               |       |           |          |
|                  |       |          |             |       |       |         |         |      |          |       |          |        |               |       |           |          |
|                  |       |          |             |       |       |         |         |      |          |       |          |        |               |       |           |          |

| INTEREST     | PRORATI | ON      |
|--------------|---------|---------|
|              | OATS    | SORGHUM |
| ALFALFA      | FOR     | SUDAN   |
| HAY          | HAY     | HAY     |
| -dollars per | acre-   |         |
| 8.31         | 14.10   | 8.35    |
| 10.23        | 2.05    | 4.09    |
| 4.92         | 0.95    | 1.97    |
| 0.00         | 0.00    | 0.00    |
| 0.00         | 1.18    | 1.18    |
| 0.00         | 3.61    | 1.20    |
| 3.09         | 1.24    | 1.10    |
| 0.00         | 8.64    | 8.64    |
| 8.95         | 1.79    | 3.58    |
| 16.10        | 5.44    | 5.72    |
|              |         |         |
|              |         |         |

| ALFALFA ESTABI | ISHMENT | ACRES: | 4     | PUMP V  | 8.00   |        |
|----------------|---------|--------|-------|---------|--------|--------|
|                |         |        |       | ACCOMPL | SHMENT |        |
|                |         | POWER  | TIMES |         |        |        |
| MAC            | HINE    | UNIT   | OVER  | RATE    | TOTAL  | CUSTON |
|                |         |        |       |         |        |        |
| DSC            |         | 50 HP  | 1.00  | 0.39    | 0.39   |        |
| PLOW           |         | 50 HP  | 1.00  | 1.05    | 1.05   |        |
| DISC (2X)      |         | 50 HP  | 2.00  | 0.39    | 0.78   |        |
| FLOAT (2X)     |         | 50 HP  | 2.00  | 0.32    | 0.64   |        |
| DRILL          |         | 50 HP  | 1.00  | 0.21    | 0.21   |        |
| IRRIGATE (4X)  |         |        | 4.00  | 1.51    | 12.07  |        |

| ILFALFA HAY         | ACRES: | 40    | PUMP WA      | 45.00 |        |  |
|---------------------|--------|-------|--------------|-------|--------|--|
|                     |        |       | ACCOMPLISE   | IMENT |        |  |
| MACHINE             | POWER  | OVER  | RATE         | TOTAL | CUSTON |  |
| PRIGATE (11X)       |        | 11.00 | 1.51         | 67.89 |        |  |
| SWATHER (SX)        | 14 FT  | 5.00  | 0.16         | 0.80  |        |  |
| BALER, PTO (5X)     | 50 HP  | 5.00  | 0.21         | 1.05  |        |  |
| BALEWAGON, PTO (5X) | 50 HP  | 5.00  | 0.20         | 1.00  |        |  |
|                     |        |       |              |       |        |  |
| DATE EDB HAY        | ACRES. |       | DE MAIN SALE |       |        |  |

| MACHINE DEC PLOW DEC (2X) FLOAT (2X) | POWER<br>UNIT<br>50 HP<br>50 HP<br>50 HP<br>50 HP | TIMES<br>OVER<br>1.00<br>1.00<br>2.00<br>2.00 | RATE<br>0.39<br>1.05<br>0.39<br>0.32 | TOTAL<br>0.39<br>1.05<br>0.78<br>0.64 | CUSTOM |
|--------------------------------------|---|---|--------------------------------------|---------------------------------------|--------|
| DREL RRIGATE (4X) SWATHER            | 50 HP   | 1.00  | 0.21                                 | 0.21<br>27.15                         |        |
| BALER, PTO<br>BALE WAGON             | 50 HP<br>50 HP                                    | 1.00  | 0.21                                 | 0.21<br>0.20                          |        |

| SUDAN HAY     | ACRES | 5     | PUMP V  | VATER: | 16.00  |
|---------------|-------|-------|---------|--------|--------|
|               |       |       | ACCOMPL | SHMENT |        |
|               | POWER | TIMES |         |        |        |
| MACHINE       | UNIT  | OVER  | RATE    | TOTAL  | CUSTOM |
|               |       |       |         |        |        |
| DISC          | 50 HP | 1.00  | 0.39    | 0.39   |        |
| FLOAT (2X)    | 50 HP | 2.00  | 0.32    | 0.54   |        |
| DRILL         | 50 HP | 1.00  | 0.21    | 0.21   |        |
| IRRIGATE (4X) |       | 4.00  | 1.51    | 24.14  |        |

| SWATHER    | 14.FT | 2.00 | 0.16 | 0.32 |
|------------|-------|------|------|------|
| BALER, PTO | 50 HP | 2.00 | 0.21 | 0.42 |
|            |       |      |      |      |

| ANNUAL | REPAR | COST | SAS | APERO | ENT | OF | NEW | VALU |
|--------|-------|------|-----|-------|-----|----|-----|------|

| of Use       | 1        | 2                          | 3                | 4               | 5                   | 6               | 7        | 8         | 9        |  |
|--------------|----------|----------------------------|------------------|-----------------|---------------------|-----------------|----------|-----------|----------|--|
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 | -        | -         |          |  |
|              | 0.000050 | 0.000020                   | 0.000620         | 0.000020        | 0.000080            | 0.000140        | 0.000040 | 0.000240  | 0.000200 |  |
| 50           | 0.000060 | 0.000020                   | 0.000620         | 0.000020        | 0.000080            | 0.000140        | 0.000040 | 0.000240  | 0.000200 |  |
| 100          | 0.000050 | 0.000020                   | 0.000500         | 0.000020        | 0.000140            | 0.000220        | 0.000100 | 0.000380  | 0.000300 |  |
| 300          | 0.000030 | 0.000050                   | 0.000390         | 0.000090        | 0.000180            | 0.000260        | 0.000110 | 0.000630  | 0.000260 |  |
| 400          | 0.000030 | 0.000050                   | 0.000390         | 0.000000        | 0.000250            | 0.000310        | 0.000140 | 0.000710  | 0.000450 |  |
| 500          | 0.000030 | 0.000000                   | 0.000360         | 0.000030        | 0.000280            | 0.000370        | 0.000150 | 0.0000710 | 0.000450 |  |
| 500          | 0.000030 | 0.000090                   | 0.000340         | 0.000100        | 0.000310            | 0.000390        | 0.000190 | 0.000000  | 0.000530 |  |
| 700          | 0.000030 | 0.000100                   | 0.000340         | 0.000130        | 0.000330            | 0.000310        | 0.000200 | 0.0000010 | 0.000560 |  |
| 800          | 0.000030 | 0.000110                   | 0.000320         | 0.000150        | 0.000350            | 0.000430        | 0.000210 | 0.000080  | 0.000590 |  |
| 900          | 0.000030 | 0.000120                   | 0.000320         | 0.000160        | 0.000370            | 0.000450        | 0.000230 | 0.001020  | 0.000600 |  |
| 1000         | 0.000090 | 0.000130                   | 0.000310         | 0.000180        | 0.000380            | 0.000450        | 0.000230 | 0.001070  | 0.000630 |  |
| 1200         | 0.000045 | 0.000145                   | 0.000305         | 0.000205        | 0.000405            | 0.000480        | 0.000245 | 0.001135  | 0.000710 |  |
| 1400         | 0.000045 | 0.000170                   | 0.000300         | 0.000230        | 0.000435            | 0.000510        | 0.000410 | 0.001260  | 0.000765 |  |
| 1500         | 0.000150 | 0.000170                   | 0.000300         | 0.000230        | 0.000435            | 0.000510        | 0.000410 | 0.001260  | 0.000765 |  |
| 1600         | 0.000150 | 0.000190                   | 0.000285         | 0.000255        | 0.000465            | 0.000525        | 0.000135 | 0.001235  | 0.000805 |  |
| 1800         | 0.000075 | 0.000170                   | 0.000285         | 0.000285        | 0.000485            | 0.000550        | 0.000295 |           |          |  |
| 2000         | 0.000110 | 0.000265                   | 0.000280         | 0.000305        | 0.000505            | 0.000565        | 0.000310 |           |          |  |
| 2500         | 0.000056 |                            |                  |                 |                     |                 |          |           |          |  |
| 3000         | 0.000070 |                            |                  |                 |                     |                 |          |           |          |  |
| 3500         | 0.000082 |                            |                  |                 |                     |                 |          |           |          |  |
| 4000         | 0.000096 |                            |                  |                 |                     |                 |          |           |          |  |
| 4500         | 0.000108 |                            |                  |                 |                     |                 |          |           |          |  |
| 5000<br>5500 | 0.000122 |                            |                  |                 |                     |                 |          |           |          |  |
| 5000         | 0.000148 |                            |                  |                 |                     |                 |          |           |          |  |
| 5500         | 0.000162 |                            |                  |                 |                     |                 |          |           |          |  |
| 7000         | 0.000175 |                            |                  |                 |                     |                 |          |           |          |  |
| 7500         | 0.000176 |                            |                  |                 |                     |                 |          |           |          |  |
| 8000         | 0.000204 |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              |          | Based on ung               |                  |                 | t, Department       | of Agricultural |          |           |          |  |
|              |          |                            | Engineering,     | University of I | linois.             |                 |          |           |          |  |
|              |          | Based on "Ac               |                  |                 |                     |                 |          |           |          |  |
|              |          | passed on 'Ag              |                  | rantook, 1983   |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              | Codes    |                            |                  |                 |                     |                 |          |           |          |  |
|              |          |                            |                  |                 |                     |                 |          |           |          |  |
|              | 1        | tractors                   |                  |                 |                     |                 |          |           |          |  |
|              |          | balers, combi              |                  |                 |                     |                 |          |           |          |  |
|              | 2        | rotary hos, di             |                  | d plows, chise  | ils, field cultiva  | Bors            |          |           |          |  |
|              |          | row cultivator             |                  |                 |                     |                 |          |           |          |  |
|              | 4        | harrows, wag<br>bed shaper | pris, floats, ro | to buck, drag,  | roller, water fr    | arrow,          |          |           |          |  |
|              |          | balewagons.                | mitten nicken    | cotton string   | ers onen nicks      | ra .            |          |           |          |  |
|              |          |                            |                  |                 | evers, stalk cho    |                 |          |           |          |  |
|              |          | feed wagons.               |                  | ,y 110          | and the contract of | *****           |          |           |          |  |
|              | 6        | rakes, cuttert             | ar mower         |                 |                     |                 |          |           |          |  |
|              | 7        | baler w/ engir             | ne, manure sp    | reader          |                     |                 |          |           |          |  |
|              | 5        | planters, drift            | s, seeding equ   | ipment, moun    | ted sprayers        |                 |          |           |          |  |

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County,

Planting dates: September 1 - November 1

| ITEM                        | PRICE  | QUANTITY                                | PURCHASED<br>INPUTS |         |         |         |         | TOTAL    |
|-----------------------------|--------|---|---------------------|---------|---------|---------|---------|----------|
| PURCHASED INPUTS            |        |   |                     |         |         |         |         |          |
| ALFALFA SEED<br>PUMP WATER* | \$3.05 | 30 LBS<br>8 AC. IN.                     | \$91.50             |         |         |         |         | \$91.50  |
| SUBTOTAL                    |        |   | \$91.50             |         |         |         | =       | \$91.50  |
|                             | POWER  | ACCOMPLISHMENT                          | PURCHASED           |         | FUEL &  |         | FIXED   |          |
| PREHARVEST OPERATIONS       | UNIT   | RATE                                    | INPUTS              | LABOR   | LUBE    | REPAIRS | COST    | TOTAL    |
| DISC                        | 50 HP  | 0.39 HR                                 |                     | \$2.93  | \$3.06  | \$0.42  | \$3.23  | \$9.64   |
| PLOW                        | 50 HP  | 1.05 HR                                 |                     | \$7.88  | \$8.25  | \$1.46  | \$17.57 | \$35.15  |
| DISC (2X)                   | 50 HP  | 0.78 HR                                 |                     | \$5.85  | \$6.13  | \$1.52  | \$12.67 | \$26.16  |
| FLOAT (2X)                  | 50 HP  | 0.64 HR                                 |                     | \$4.80  | \$5.03  | \$0.70  | \$8.31  | \$18.83  |
| DRILL                       | 50 HP  | 0.21 HR                                 |                     | \$1.58  | \$1.65  | \$0.45  | \$34.83 | \$38.50  |
| IRRIGATE (4X)               |        | 2.00 HR                                 |                     | \$15.00 | \$18.81 | \$0.00  | \$6.64  | \$40.45  |
| SUBTOTAL                    |        | 5.07 HR                                 |                     | \$38.03 | \$42.93 | \$4.54  | \$83.24 | \$168.73 |
| OVERHEAD EXPENSES           |        |   |                     |         |         |         |         |          |
| DOWNTIME                    |        | 0.77 HR                                 |                     | \$5.76  |         |         |         | \$5.76   |
| EMPLOYEE BENEFITS           |        | • |                     | \$4.56  |         |         |         | \$4.56   |
| FARM INSURANCE              |        |   | \$0.46              | ·       |         |         |         | \$0.46   |
| SUPERVISION AND MANAGEMENT  |        |   |                     | \$13.94 |         |         |         | \$13.94  |
| SUBTOTAL                    |        | 0.77 HR                                 | \$0.46              | \$24.26 |         |         |         | \$24.72  |
| TOTAL OPERATING EXPENSES    |        | 5.84 HR                                 | \$91.96             | \$62.29 | \$42.93 | \$4.54  | \$83.24 | \$284.95 |

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2017

| ITEM   | PRICE                       |          | YIEL                      | D                                      |                               |                             |                            |                            |                               | TOTAL   |
|--|-----------------------------|----------|---------------------------|--|-------------------------------|-----------------------------|----------------------------|----------------------------|-------------------------------|---|
| GROSS RETURNS<br>ALFALFA HAY   | \$175.00                    |          | 6.00                      | TONS (S                                | STACKED)                      |                             |                            |                            |                               | \$1,050.00  |
|  | \$175.00                    |          | 0.00                      | TONS (S                                | JACKED)                       |                             |                            |                            |                               |   |
| TOTAL  |                             |          |                           |  |                               |                             |                            |                            |                               | \$1,050.00  |
| PURCHASED INPUTS   | PRICE                       |          | QUANT                     | ΠΤΥ                                    | PURCHASED<br>INPUTS           |                             |                            |                            | FIXED<br>COST                 | TOTAL   |
| FERT. (ALFALFA MIX) INSECTICIDE WIRE ESTABLISHMENT: Principal : Interest PUMP WATER*           | \$0.16<br>\$23.97<br>\$0.36 |          | 1<br>56<br>10             | LBS<br>ACRE<br>LBS<br>YEARS<br>AC. IN. | \$40.00<br>\$23.97<br>\$20.16 |                             |                            |                            | \$28.50<br>\$6.59             | \$40.00<br>\$23.97<br>\$20.16<br>\$28.50<br>\$6.59          |
| SUBTOTAL   |                             |          |                           |  | \$84.13                       |                             |                            |                            | \$35.08                       | \$119.22  |
| PREHARVEST OPERATIONS  | POWER<br>UNIT               |          | ACCOMPLIS<br>RAT          |  | PURCHASED<br>INPUTS           | LABOR                       | FUEL &<br>LUBE             | REPAIRS                    | FIXED<br>COST                 | TOTAL   |
| IRRIGATE (11X)   |                             |          | 5.50                      | HR                                     |                               | \$41.25                     | \$105.83                   | \$0.00                     | \$37.35                       | \$184.43  |
| SUBTOTAL   |                             |          | 5.50                      | HR                                     |                               | \$41.25                     | \$105.83                   | \$0.00                     | \$37.35                       | \$184.43  |
| HARVEST OPERATIONS   |                             |          |                           |  |                               |                             |                            |                            |                               |   |
| SWATHER (5X)<br>BALER, PTO (5X)<br>BALEWAGON, PTO (5X)   | 14 FT<br>50 HP<br>50 HP     |          | 0.80<br>1.05<br>1.00      | HR                                     |                               | \$6.00<br>\$7.88<br>\$7.50  | \$0.00<br>\$8.25<br>\$7.85 | \$0.22<br>\$1.29<br>\$2.36 | \$18.02<br>\$18.48<br>\$28.76 | \$24.25<br>\$35.89<br>\$46.47                               |
| SUBOTOTAL  |                             |          | 2.85                      | HR                                     |                               | \$21.38                     | \$16.10                    | \$3.88                     | \$65.26                       | \$106.61  |
| OVERHEAD EXPENSES  |                             |          |                           |  |                               |                             |                            |                            |                               |   |
| DOWNTIME EMPLOYEE BENEFITS FARM INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES |                             |          | 0.71                      | HR                                     | \$0.75<br>\$289.38            | \$5.34<br>\$7.52<br>\$48.93 |                            |                            | \$3.22                        | \$5.34<br>\$7.52<br>\$0.75<br>\$3.22<br>\$48.93<br>\$289.38 |
| SUBTOTAL   |                             |          | 0.71                      | HR                                     | \$290.13                      | \$61.78                     |                            |                            | \$3.22                        | \$355.13  |
| TOTAL OPERATING EXPENSES   |                             |          | 9.06                      | HR                                     | \$374.26                      | \$124.41                    | \$121.93                   | \$3.88                     | \$140.91                      | \$765.39  |
| NET OPERATING PROFIT   |                             |          |                           |  |                               |                             |                            |                            |                               | \$284.61  |
| INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN                                  | IT                          | (        | \$70.19                   | @                                      | 5.50%                         | )                           |                            |                            |                               | \$3.86<br>\$51.61   |
| RETURN TO LAND AND RISK  |                             |          |                           |  |                               |                             |                            |                            |                               | \$229.14  |
| * Pump water costs are shown under irriga  | ition in the preha          |          | tions section.<br>SUMMARY |  |                               |                             |                            |                            |                               |   |
| GROSS RETURN   |                             |          | \$1,050.00                |  |                               |                             |                            |                            |                               |   |
| VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES                                      |                             | \$503.93 | \$546.07                  | (GROS                                  | SS MARGINS)                   |                             |                            |                            |                               |   |
| FIXED EXPENSES  NET FARM INCOME  |                             | \$140.91 | \$405.16                  | (RETU                                  | RNS TO CAPITAL                | , LABOR, LA                 | ND & RISK)                 |                            |                               |   |
| LABOR AND MANAGEMENT COST<br>NET OPERATING PROFIT  |                             | \$124.41 | \$280.75                  | (RETU                                  | RNS TO CAPITAL                | . LAND & RIS                | SK)                        |                            |                               |   |

| Fullip water costs are shown under imgation in the p |          |            |  |
|--|----------|------------|--|
|  | BUDGET   | SUMMARY    |  |
| GROSS RETURN   |          | \$1,050.00 |  |
| VARIABLE OPERATING EXPENSES                          | \$503.93 |            |  |
| RETURN OVER VARIABLE EXPENSES                        |          | \$546.07   | (GROSS MARGINS)                          |
| FIXED EXPENSES                                       | \$140.91 |            |  |
| NET FARM INCOME                                      |          | \$405.16   | (RETURNS TO CAPITAL, LABOR, LAND & RISK) |
| LABOR AND MANAGEMENT COST                            | \$124.41 |            |  |
| NET OPERATING PROFIT                                 |          | \$280.75   | (RETURNS TO CAPITAL, LAND & RISK)        |
| CAPITAL COSTS  | \$51.61  |            |  |
| RETURN TO LAND AND RISK                              |          | \$229.14   |  |

TABLE 8. Oats for hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2017
Planting dates: September 1 - November 1
Harvesting dates: April 15 - May 15

YIELD TOTAL PRICE GROSS RETURNS OATS FOR HAY \$140.00 3.00 TONS (STACKED) \$420.00 TOTAL \$420.00

| PURCHASED INPUTS                             | PRICE          | QUAN      | ITITY    | PURCHASED<br>INPUTS |                  |                  |                  | FIXED<br>COST      | TOTAL               |
|--|----------------|-----------|----------|---------------------|------------------|------------------|------------------|--------------------|---------------------|
| OAT SEED                                     | \$0.34         | 100       | LBS      | \$34.00             |                  |                  |                  |                    | \$34.00             |
| NITROGEN (N)                                 | \$0.22         | 100       | LBS      | \$22.00             |                  |                  |                  |                    | \$22.00             |
| PUMP WATER*                                  |                | 18        | AC. IN.  |                     |                  |                  |                  |                    |                     |
| SUBTOTAL                                     |                |           |          | \$56.00             |                  |                  |                  | -                  | \$56.00             |
|  | POWER          | ACCOMPL   |          | PURCHASED           |                  | FUEL &           |                  | FIXED              |                     |
| PREHARVEST OPERATIONS                        | UNIT           | RA        | TE       | INPUTS              | LABOR            | LUBE             | REPAIRS          | COST               | TOTAL               |
| DISC   | 50 HP          |           | HR       |                     | \$2.93           | \$3.06           | \$0.76           | \$6.33             | \$13.08             |
| PLOW<br>DISC (2X)                            | 50 HP<br>50 HP |           | HR<br>HR |                     | \$7.88<br>\$5.85 | \$8.25<br>\$6.13 | \$1.46<br>\$1.52 | \$17.57<br>\$12.67 | \$35.15<br>\$26.16  |
| FLOAT (2X)                                   | 50 HP          |           | HR       |                     | \$4.80           | \$5.03           | \$0.70           | \$8.31             | \$18.83             |
| DRILL  | 50 HP          |           | HR       |                     | \$1.58           | \$1.65           | \$0.45           | \$34.83            | \$38.50             |
| IRRIGATE (4X)                                |                | 2.00      | HR       |                     | \$15.00          | \$42.33          | \$0.00           | \$14.94            | \$72.27             |
| SUBTOTAL                                     |                | 5.07      | HR       |                     | \$38.03          | \$66.45          | \$4.88           | \$94.64            | \$203.99            |
| HARVEST OPERATIONS                           |                |           |          |                     |                  |                  |                  |                    |                     |
| SWATHER                                      | 14 FT          | 0.16      | HR       |                     | \$1.20           | \$0.00           | \$0.04           | \$3.60             | \$4.85              |
| BALER, PTO                                   | 50 HP          |           | HR       |                     | \$1.58           | \$1.65           | \$0.26           | \$3.70             | \$7.18              |
| BALE WAGON                                   | 50 HP          | 0.20      | HR       |                     | \$1.50           | \$1.57           | \$0.47           | \$5.75             | \$9.29              |
| SUBTOTAL                                     |                | 0.57      | HR       |                     | \$4.28           | \$3.22           | \$0.78           | \$13.05            | \$21.32             |
| OVERHEAD EXPENSES                            |                |           |          |                     |                  |                  |                  |                    |                     |
| DOWNTIME                                     |                | 0.91      | HR       |                     | \$6.83           |                  |                  |                    | \$6.83              |
| EMPLOYEE BENEFITS                            |                |           |          |                     | \$5.08           |                  |                  |                    | \$5.08              |
| FARM INSURANCE                               |                |           |          | \$0.51              |                  |                  |                  |                    | \$0.51              |
| LAND TAXES                                   | -              |           |          |                     | 000.00           |                  |                  | \$1.61             | \$1.61              |
| SUPERVISION AND MANAGEMENT<br>OTHER EXPENSES | l              |           |          | \$144.69            | \$20.62          |                  |                  |                    | \$20.62<br>\$144.69 |
| SUBTOTAL                                     |                | 0.91      | HR       | \$145.20            | \$32.52          |                  |                  | \$1.61             | \$179.32            |
| TOTAL OPERATING EXPENSES                     |                | 6.55      | HR       | \$201.20            | \$74.82          | \$69.67          | \$5.66           | \$109.30           | \$460.64            |
| NET OPERATING PROFIT                         |                |           |          |                     |                  |                  |                  |                    | (\$40.64)           |
| INTEREST ON OPERATING CAPITA                 |                | ( \$46.16 | @        | 5.50%               | )                |                  |                  |                    | \$2.54<br>\$40.03   |
| RETURN TO LAND AND RISK                      |                |           |          |                     |                  |                  |                  |                    | (\$83.21)           |
|  |                |           |          |                     |                  |                  |                  |                    | (+)                 |

| Pump water costs are snown under irrigation in the pi | BUDGET S |           |  |
|---|----------|-----------|--|
| ODOGO BETUDN  |          | £400.00   |  |
| GROSS RETURN  |          | \$420.00  |  |
| VARIABLE OPERATING EXPENSES                           | \$279.06 |           |  |
| RETURN OVER VARIABLE EXPENSES                         |          | \$140.94  | (GROSS MARGINS)                          |
| FIXED EXPENSES  | \$109.30 |           |  |
| NET FARM INCOME                                       |          | \$31.64   | (RETURNS TO CAPITAL, LABOR, LAND & RISK) |
| LABOR AND MANAGEMENT COST                             | \$74.82  |           |  |
| NET OPERATING PROFIT                                  |          | (\$43.18) | (RETURNS TO CAPITAL, LAND & RISK)        |
| CAPITAL COSTS   | \$40.03  |           |  |
| RETURN TO LAND AND RISK                               |          | (\$83.21) |  |

TABLE 9. Sorghum-sudan hay, sprinkler-irrigated, budgeted per acre costs and returns for a 50 acre part-time farm, Tularosa Basin, Otero County, Projected 2017

Planting dates: May 1 - June 1 Harvesting dates: June 1 - August 1

ITEM PRICE YIELD TOTAL
GROSS RETURNS
SORGHUM/SUDAN HAY \$160.00 5.00 TONS (STACKED) \$800.00

\$800.00 TOTAL \$800.00 PURCHASED INPUTS FIXED PRICE TOTAL PURCHASED INPUTS QUANTITY COST SEED NITROGEN (N) \$1.04 50 LBS \$52.00 \$52.00 100 LBS \$22.00 \$0.22 \$22.00 PUMP WATER\* 16 AC. IN. SUBTOTAL \$74.00 \$74.00 POWER ACCOMPLISHMENT PURCHASED FUEL & FIXED LABOR REPAIRS PREHARVEST OPERATIONS UNIT RATE INPUTS LUBE COST TOTAL 50 HP 0.39 HR \$2.93 \$0.76 \$13.08 DISC \$3.06 \$6.33 50 HP 50 HP \$4.80 \$1.58 \$8.31 \$34.83 FLOAT (2X) 0.64 HR \$5.03 \$0.70 \$18.83 DRILL 0.21 HR \$1.65 \$0.45 \$38.50 IRRIGATE (4X) \$15.00 \$37.63 \$0.00 \$13.28 \$65.91 2.00 HR SUBTOTAL 3.24 HR \$24.30 \$47.37 \$1.91 \$62.75 \$136.32 HARVEST OPERATIONS 0.32 HR 0.42 HR SWATHER (2X) 14 FT \$0.09 \$7.21 \$9.70 \$2.40 \$0.00 BALER, PTO (2X) BALE WAGON (2X) 50 HP \$3.15 \$3.30 \$0.52 \$7.39 \$14.36 \$11.50 50 HP 0.40 HR \$3.00 \$3.14 \$0.94 \$18.59 SUBTOTAL 1.14 HR \$8.55 \$6.44 \$1.55 \$26.10 \$42.65 OVERHEAD EXPENSES DOWNTIME 0.60 HR \$4.46 \$4.46 EMPLOYEE BENEFITS \$3.94 \$3.94 FARM INSURANCE \$0.39 \$0.39 \$1.61 LAND TAXES \$1.61 SUPERVISION AND MANAGEMENT \$35.19 \$35.19 OTHER EXPENSES \$144.69 \$144.69 SUBTOTAL \$145.08 \$43.59 \$1.61 \$190.29 0.60 HR TOTAL OPERATING EXPENSES \$443.25 4.98 HR \$219.08 \$3.46 \$90.46 \$76.44 \$53.81 NET OPERATING PROFIT \$356.75 INTEREST ON OPERATING CAPITAL \$49.98 @ 5.50% \$2.75 INTEREST ON EQUIPMENT INVESTMENT \$35.84 RETURN TO LAND AND RISK \$318.16

| * Pump water costs are shown under irrigation in | the preharvest operat<br>BUDGET S |          |  |
|--|-----------------------------------|----------|--|
| GROSS RETURN                                     |                                   | \$800.00 |  |
| VARIABLE OPERATING EXPENSES                      | \$279.10                          |          |  |
| RETURN OVER VARIABLE EXPENSES                    |                                   | \$520.90 | (GROSS MARGINS)                          |
| FIXED EXPENSES                                   | \$90.46                           |          |  |
| NET FARM INCOME                                  |                                   | \$430.44 | (RETURNS TO CAPITAL, LABOR, LAND & RISK) |
| LABOR AND MANAGEMENT COST                        | \$76.44                           |          |  |
| NET OPERATING PROFIT                             |                                   | \$354.00 | (RETURNS TO CAPITAL, LAND & RISK)        |
| CAPITAL COSTS                                    | \$35.84                           |          |  |
| RETURN TO LAND AND RISK                          |                                   | \$318.16 |  |

TABLE 10. Summary of per acre costs and returns, 50-acre part-time farm, Tularosa Basin, Otero County, Projected 2017

| Projected 2017                   | ALFALFA       | ALFALFA    | OATS FOR  | SORGHUM   |
|----------------------------------|---------------|------------|-----------|-----------|
|                                  | ESTABLISHMENT | HAY        | HAY       | SUDAY HAY |
|                                  |               |            |           |           |
|                                  |               | TONS       | TONS      | TONS      |
| PRIMARY YIELD                    |               | 6.00       | 3.00      | 5.00      |
| PRIMARY PRICE                    |               | \$175.00   | \$140.00  | \$160.00  |
| GOVERNMENT PAYMENTS              |               | \$0.00     | \$0.00    | \$0.00    |
| SECOND INCOME                    |               | \$0.00     | \$0.00    | \$0.00    |
| GROSS RETURN                     |               | \$1,050.00 | \$420.00  | \$800.00  |
| CASH OPERATING EXPENSES          |               |            |           |           |
| SEED                             | \$91.50       |            | \$34.00   | \$52.00   |
| FERTILIZER                       |               | \$40.00    | \$22.00   | \$22.00   |
| CHEMICALS                        |               | \$23.97    |           |           |
| CROP INSURANCE                   |               |            |           |           |
| OTHER PURCHASED INPUTS           |               | \$20.16    |           |           |
| CANAL WATER                      |               |            |           |           |
| FUEL, OIL & LUBRICANTS-EQUIPMENT | \$24.11       | \$16.10    | \$27.33   | \$16.18   |
| FUEL-IRRIGATION                  | \$18.81       | \$105.83   | \$42.33   | \$37.63   |
| REPAIRS                          | \$4.54        | \$3.88     | \$5.66    | \$3.46    |
| CUSTOM CHARGES                   |               |            |           |           |
| LAND TAXES                       |               | \$3.22     | \$1.61    | \$1.61    |
| OTHER EXPENSES                   | \$0.46        | \$290.13   | \$145.20  | \$145.08  |
| TOTAL CASH EXPENSES              | \$139.43      | \$503.29   | \$278.13  | \$277.96  |
| RETURN OVER CASH EXPENSES        | (\$139.43)    | \$546.71   | \$141.87  | \$522.04  |
| FIXED EXPENSES                   | \$83.24       | \$137.69   | \$107.69  | \$88.85   |
| TOTAL EXPENSES                   | \$222.66      | \$640.98   | \$385.82  | \$366.81  |
| NET FARM INCOME                  | (\$222.66)    | \$409.02   | \$34.18   | \$433.19  |
| LABOR AND MANAGEMENT COSTS       | \$62.29       | \$124.41   | \$74.82   | \$76.44   |
| NET OPERATING PROFIT             | (\$284.95)    | \$284.61   | (\$40.64) | \$356.75  |
| CAPITAL COSTS                    |               |            |           |           |
| INTEREST ON OPERATING CAPITAL    |               | \$3.86     | \$2.54    | \$2.75    |
| INTEREST ON EQUIPMENT INVESTMENT |               | \$51.61    | \$40.03   | \$35.84   |
| TOTAL CAPITAL COSTS              | \$0.00        | \$55.47    | \$42.57   | \$38.59   |
| RETURN TO LAND AND RISK          | (\$284.95)    | \$229.14   | (\$83.21) | \$318.16  |

TABLE 11. Whole farm summary, Tularosa Basin, Otero County, Projected 2017

| Projected 201                          | 1               |                  |          |          |
|--|-----------------|------------------|----------|----------|
| GROSS RETURNS                          |                 |                  |          |          |
| ALFALFA HAY                            | 40.00 ACRES     |                  |          |          |
| CROP                                   |                 | \$42,000         |          |          |
| OATS FOR HAY                           | 5.00 ACRES      |                  |          |          |
| CROP                                   | 5.00 4.0050     | \$2,100          |          |          |
| SORGHUM/SUDAN<br>CROP                  | 5.00 ACRES      | \$4,000          |          |          |
| CNOF                                   |                 | Ψ4,000           |          |          |
| GROSS RETURN                           |                 |                  | _        | \$48,100 |
|  |                 |                  |          |          |
| CASH OPERATING EXPE                    | NSES            |                  |          |          |
| SEED                                   |                 | \$796            |          |          |
| FERTILIZER                             |                 | \$1,820          |          |          |
| CHEMICALS                              |                 | \$959            |          |          |
| CROP INSURANCE                         |                 | \$0              |          |          |
| OTHER PURCHASED                        | INPUTS          | \$806            |          |          |
| CANAL WATER                            | NITO FOLUDIMENT | \$0<br>*050      |          |          |
| FUEL, OIL & LUBRICA<br>FUEL-IRRIGATION | NTS-EQUIPMENT   | \$958<br>\$4,708 |          |          |
| REPAIRS                                |                 | \$4,708<br>\$219 |          |          |
| CUSTOM CHARGES                         |                 | \$0              |          |          |
| LAND TAXES                             |                 | \$145            |          |          |
| OTHER EXPENSES                         |                 | \$13,058         |          |          |
| TOTAL CASH                             | I EXPENSES      | _                | \$23,470 |          |
| RETURN OVER CASH EX                    | (PENSES         |                  |          | \$24,630 |
| FIXED EXPENSES                         |                 |                  | \$5,239  |          |
| TOTAL EXPE                             | NSES            |                  | \$28,709 |          |
| NET FARM INCOME                        |                 |                  |          | \$19,391 |
| LABOR AND MANAGEME                     | ENT COSTS       | \$5,982          |          |          |
| NET OPERATING PROFI                    | Т               |                  |          | \$13,409 |
| CAPITAL COSTS                          |                 |                  |          |          |
| INTEREST ON OPERA                      | TING CAPITAL    | \$181            |          |          |
| INTEREST ON EQUIP                      |                 | \$2,444          |          |          |
| TOTAL CAPI                             | TAL COSTS       | _                | \$2,625  |          |
| RETURN TO LAND AND I                   | RISK            |                  |          | \$10,785 |
|  |                 |                  | _        |          |

| RETURNS  | RETURN ON  |
|----------|--|
| TO RISK* | INVESTMENT**   |
|          |  |
| \$9,735  | 20.23%   |
| \$9,435  | 17.58%   |
| \$9,135  | 15.54%   |
| \$8,835  | 13.93%   |
| \$8,535  | 12.62%   |
| \$8,235  | 11.53%   |
| \$7,935  | 10.62%   |
| \$7,635  | 9.84%  |
|          | \$9,735<br>\$9,435<br>\$9,435<br>\$9,135<br>\$8,835<br>\$8,535<br>\$8,235<br>\$7,935 |

 $<sup>^{\</sup>star}$  RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)  $^{\star\star}$  NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)