TABLE 1. Acreage Summary, Hidalgo County, Projected 2017

BUDGET AREA……VIRDEN AREA, HIDALGO COUNTY
FARM SIZE……200 ACRES
IRRIGATION TYPE……FLOOD
NUMBER OF CROPS……4……

ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE AC. IN. PER ACRE	WATER USE TOTAL AC. IN.
ALFALFA ESTABLISHMENT *	15.00	20	300
ALFALFA	45.00	54	2,430
CORN SILAGE	25.00	50	1,250
COTTON	68.00	36	2,448
ARP	0.00		
FLEX IN CORN SILAGE	12.00	36	432
GRAIN SORGHUM	34.00	40	1,360
ARP	0.00		
FLEX IN CORN SILAGE	6.00	36	216
ROADS, DITCHES	10.00		
TOTAL	200.00		8,436
ACRE FEET PER ACRE OF WATER RIGHTS			3.52

* DOUBLE-CROPPED

TABLE 2. Basic cost information for the Virden area, Hidalgo County, Projected 2017

Item			
Labor Wage Rate:			
Equipment operators		$/hour	$8.55
General & Irrigators		$/hour	$7.50
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		$/pound	$0.22
Phosphate (P205)		$/pound	$0.27
Seed:			
Alfalfa		$/pound	$3.05
Upland Cotton (picker)		$/pound	$7.55
Corn for Silage		$/bag	$300.00
Grain Sorghum		$/pound	$1.70
Canal Water		$/acre	$45.00
Wire:		$/lb.	$1.32
Energy:			
Diesel fuel		$/gallon	$2.35
Gasoline		$/gallon	$2.10
Electricity		cents/KwHr	8.45
LP Gas		$/gallon	$2.65
Employee Liability Insurance		$/$1000 wages	$20.00
Employee Benefits		percent/wages	18.00%
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%
Real Interest Rate		percent	3.00%
Land Taxes	$348.00	/acre (full value)	$2.56
Personal Property Tax Rate	- NR	$/$1,000 (Assessed	$22.10
	- R	Value)	$19.03
Supervision Factors			
Field Crop-Irrigation		$/labor hour	$1.00
Field Crop-Equipment		$/labor hour	$0.50
Management Rate		percent	7.00%

TABLE 3. Overhead cost information for Virden area, Hidalgo County, Projected 2017

Item					
Electricity (Domestic & Shop)			$181.50	per month	$2,178
Telephone			$96.80	per month	$1,162
Accounting & Legal					$1,198
Misc. Supplies & Hand Tools					$1,718
Pickup and Auto					
miles	18,150	@	$0.500	per mile	$9,075
Insurance					
- general liability (non-employee)					$1,452
- fire/theft					$1,113
Property Taxes					
- non-planted land					$0
- other than land & machinery					$6,010
Building repairs and maintenance					$980
Dues, fees, publications					$351
Farmstead Equipment					$182
				Total	$25,418
			Total per planted acre		$133.78

TABLE 4 Pumping costs and data for irrigation wells, Virden area, Hidalgo County, Projected 2017

INPUT DATA

DEPTH CHARACTERISTICS:

STATIC.....	50
DRAW DOWN.....	25
TOTAL HEAD.....	75
CASING.....	100

GALLONS PER MINUTE (GPM) 1,500
WORK HORSEPOWER 29

EFFICIENCY FACTOR:
ELECTRICITY 0.640
LP GAS 0.154
DIESEL 0.160

FUEL COST PER UNIT:

ELECTRICITY	8.45	CENTS/Kwhr
LP GAS	$2.65	$/GAL
DIESEL	$2.35	$/GAL

FUEL PUMPING COSTS:

ELECTRIC WELL:
COST PER HOUR $0.35
COST PER ACRE INCH $1.01

LP GAS WELL:
COST PER HOUR $13.57
COST PER ACRE INCH $4.09

DIESEL WELL:
COST PER HOUR $7.52
COST PER ACRE INCH $5.27

TABLE 5. Equipment summary for a 200 acre flood-irrigated farm with above average management, Virden area, Hidalgo County, Projected 2017

EQUIPMENT ITEM & SIZE			ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS: FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	FIXED COSTS: DEPRECIATION	TAXES	TOTAL PER HR
TRACTOR	65	HP	197.83	1	4,950.00	2,019.88	255.97	10.21	1.29	539.13	79.43	3.13
TRACTOR	139	HP	283.52	1	33,904.00	5,496.16	1,125.89	19.39	3.97	2,647.40	243.78	10.20
PICKUP HALF	1/2	TON	170.00	1	18,000.00	2,249.10	126.20	13.23	0.76	1,800.00	139.97	5.66
COTTON PICKER	2	ROW*	84.32	1	9,430.00	1,199.42	603.06	14.21	7.15	1,960.00	329.29	74.59
SWATHER	14	FT SP*	36.00	1	3,900.00	316.74	20.88	8.80	0.58	1,455.00	106.62	43.24
BALER, PTO	2	WIRE	47.25	1	1,600.00		7.39		0.15	385.00	28.96	8.75
PLANTER	4	ROW	67.25	1	6,800.00		43.52		0.65	1,600.00	118.56	26.56
CHISEL	7	FT	22.20	1	1,200.00		32.03		1.49	160.00	8.64	7.61
DISC	12	FT	55.58	1	2,250.00		153.67		2.79	300.00	16.68	5.75
CULTIVATOR	6	ROW	96.58	1	1,500.00		177.79		1.86	200.00	11.05	2.21
FLOAT	10	FT	38.74	1	650.00		0.54		0.01	46.67	2.58	1.27
ROTOBLUCK			14.41	1	1,000.00		0.58		0.04	133.33	7.37	9.76
MULCHER	13	FT	27.37	1	3,750.00		126.81		4.66	500.00	27.63	19.35
DISC	3-14	ROW	82.43	1	2,300.00		31.15		0.38	306.67	16.94	2.43
PLOW	3-14	ft	56.41	1	1,550.00		231.03		4.15	446.67	24.68	8.48
SHREDDER	2	ROW	19.72	1	1,250.00		3.94		0.20	166.67	9.21	8.92
COTTON TRAILER	8	BALE	170.00	2	3,600.00		8.16		0.01	360.00	26.52	2.27
FERTILIZER/SEEDER			12.15	1	2,300.00		11.18		0.92	306.67	16.94	26.43
SPRAYER	12	FT	23.80	1	1,375.00		15.71		0.66	183.33	10.13	8.13
ELECTRIC WELL			917.94	1	12,000.00	2,730.61			3.35	960.00	86.40	1.36
					111,820	14,009	3,050			16,638	1,214	

* SHOWN AT ONE-HALF COST TO REFLECT JOINT OWNERSHIP BY TWO INDIVIDUALS

EQUIPMENT LIST

ITEM			NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MAX HOURS	FUEL USE/HR	LUBE CODE	ACCUM HOURS	AGE	INTEREST EXPENSE
TRACTOR	65	HP	21565	4992	40	1	600	6.42	0.10	4154.43	21	583.04
TRACTOR	139	HP	66185	33917	25	1	600	7.92	0.10	5233.36	18	1,303.09
PICKUP HALF	1/2	TON	38000	19000	10	2	800	4.09	0.05	2210.00	13	1,065.00
COTTON PICKER	2	ROW*	84000	9430	10	2	800	5.44	0.30	3960.00	13	1,960.00
SWATHER	14	FT SP*	24000	3900	20	2	600	3.12	0.20	5241.00	14	797.50
BALER, PTO	2	WIRE	7700	1600	20	2	500			8503.50	18	211.75
PLANTER	4	ROW	6800	3400	10	3	300			4854.68	13	187.00
CHISEL	7	FT	2400	1200	15	3	300			355.20	16	66.00
DISC	12	FT	4500	2250	15	3	300			661.28	16	123.75
CULTIVATOR	6	ROW	3000	1500	15	3	300			1529.28	16	82.50
FLOAT	10	FT	1300	650	15	3	300			192.40	16	35.75
ROTOBLUCK			2000	1000	15	4	300			216.56	16	55.00
MULCHER	13	FT	7500	2750	15	3	300			409.05	15	206.25
LISTER	4	ROW	3200	1600	15	3	300			678.08	16	88.00
PLOW	3-14	ft	6700	3350	15	3	300			869.76	16	184.25
SHREDDER	2	ROW	2500	1250	15	5	150			295.80	11	68.75
COTTON TRAILER	8	BALE	2400	1200	20	4	20			1020.00	18	60.00
FERTILIZER/SEEDER			4600	2300	15	9	150			182.25	15	105.50
SPRAYER	12	FT	2750	1375	15	8	150			357.00	15	75.63
ELECTRIC WELL			24000	12000	25	0	8762			12269.08	15	960.00

* SHOWN AT ONE-HALF COST TO REFLECT JOINT OWNERSHIP BY TWO INDIVIDUALS

USAGE LIST

ALFALFA EST.	ALFALFA HAY	CORN SILAGE	UPLAND COTTON	GRAIN SORGHUM	TOTAL
hours per acre					
0.46	0.69	1.42	1.65	4.42	
1.55	1.05	1.04	1.60	1.75	6.99
0.00	0.00	0.00	2.50	0.00	2.50
0.00	0.00	0.00	1.24	0.00	1.24
0.00	0.80	0.00	0.00	0.00	0.80
0.00	1.35	0.00	0.00	0.00	1.35
0.00	0.00	0.26	0.26	0.25	0.77
0.00	0.00	0.26	0.26	0.25	0.77
0.14	0.00	0.34	0.32	0.40	1.40
0.00	0.00	0.42	0.84	0.60	1.86
0.24	0.00	0.24	0.28	0.25	0.97
0.00	0.00	0.09	0.03	0.25	0.37
0.30	0.00	0.15	0.14	0.20	0.79
0.36	0.00	0.18	0.18	0.50	1.22
0.00	0.00	0.00	0.26	0.00	0.26
0.00	0.00	0.00	0.28	0.00	0.28
0.00	0.00	0.00	2.50	0.00	2.50
0.10	0.00	0.05	0.05	0.15	0.35
0.00	0.00	0.00	0.15	0.40	0.55
1.51	5.43	4.22	3.62	3.62	18.40

INTEREST PRORATION

ALFALFA HAY	CORN SILAGE	UPLAND COTTON	GRAIN SORGHUM
dollars per acre			
9.96	6.97	4.26	4.96
9.96	6.66	10.27	11.33
0.00	0.00	15.37	0.00
0.00	0.00	39.15	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	1.30	1.30	1.25
0.00	1.35	1.35	1.25
0.76	0.76	0.72	0.98
0.00	0.36	0.73	0.52
0.12	0.12	0.12	0.12
0.00	0.34	0.11	0.96
2.27	1.13	1.09	1.51
0.75	0.37	0.37	1.04
2.22	0.00	2.23	0.00
0.00	0.00	1.01	0.00
0.00	0.00	0.00	0.00
1.04	0.52	0.52	1.38
0.00	0.00	0.48	1.27
1.22	3.41	2.92	2.92
19.71	18.27	78.58	29.42

ALFALFA ESTABLISHMENT — ACRES: 15 — PUMP WATER: 5.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
DISC	145 hp	1.00	0.17	0.17	
PLOW	145 hp	1.00	0.67	0.67	
DISC	145 hp	1.00	0.17	0.17	
FLOAT	65 HP	1.00	0.24	0.24	
FERTILIZE	65 HP	1.00	0.05	0.05	
LISTER	65 HP	1.00	0.18	0.18	
MULCHER	145 HP	1.00	0.15	0.15	
SEEDER	65 HP	1.00	0.05	0.05	
MULCHER	145 HP	1.00	0.15	0.15	
LISTER	65 HP	1.00	0.18	0.18	
IRRIGATE (4X)		4.00	0.39	1.51	

ANNUAL ALFALFA — ACRES: 45 — PUMP WATER: 18.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
IRRIGATE (6X)		9.00	0.30	5.43	
SWATH ER (SX)	14 FT	5.00	0.16	0.80	
BALER, PTO (SX)	145 HP	5.00	0.21	1.05	

CORN SILAGE — ACRES: 43 — PUMP WATER: 14.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
FERTILIZE	65 HP	1.00	0.05	0.05	
DISC	65 HP	1.00	0.17	0.17	
CHISEL	145 HP	1.00	0.20	0.20	
DISC	145 HP	1.00	0.17	0.17	
FLOAT	65 HP	1.00	0.24	0.24	
LISTER	65 HP	1.00	0.18	0.18	
PRE-IRRIGATE		1.00	0.04	0.53	
MULCHER	145 HP	1.00	0.15	0.15	
PLANTER	145 HP	1.00	0.14	0.14	
CULTIVATOR (2X)	65 HP	2.00	0.21	0.42	
ROTOBLICK (2X)	145 HP	3.00	0.03	0.09	
IRRIGATE (7X)		7.00	0.26	3.70	

UPLAND COTTON — ACRES: 68 — PUMP WATER: 12.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
FERTILIZE	65 HP	1.00	0.05	0.05	
DISC	145 HP	1.00	0.17	0.17	
PLOW	145 HP	1.00	0.67	0.67	
DISC & SPRAY	145 HP	1.00	0.15	0.15	
FLOAT	65 HP	1.00	0.24	0.24	
LISTER	145 HP	1.00	0.18	0.18	
PRE-IRRIGATE		1.00	0.03	0.40	
MULCHER	145 HP	1.00	0.14	0.14	
PLANTER	145 HP	1.00	0.26	0.26	
CULTIVATOR (4X)	65 HP	4.00	0.21	0.84	
HOEING (CUSTOM)					24.00
ROTOBLICK (2X)	145 HP	1.00	0.03	0.03	
IRRIGATE (8X)		8.00	0.27	3.22	
COTTON PICKER (2X)	2 ROW	2.00	0.62	1.24	
COTTON TRAILER (2X)	HALF TON	2.00	1.25	2.50	
GIN COTTON (CUSTOM) PER LINT #					0.11
SHREDDER	65 HP	1.00	0.29	0.29	

GRAIN SORGHUM — ACRES: 34 — PUMP WATER: 12.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT RATE	TOTAL	CUSTOM
FERTILIZER	65 HP	1.00	0.15	0.15	
DISC	145 HP	1.00	0.20	0.20	
CHISEL	145 HP	1.00	0.40	0.40	
DISC	145 HP	1.00	0.20	0.20	
FLOAT	145 HP	1.00	0.25	0.25	
SPRAYER	65 HP	1.00	0.20	0.20	
PLOW	65 HP	1.00	0.67	0.67	
PRE-IRRIGATE		1.00	0.05	0.60	
MULCHER	145 HP	1.00	0.20	0.20	
PLANTER	145 HP	1.00	0.25	0.25	
SPRAYER	65 HP	1.00	0.20	0.20	
CULTIVATOR (2X)	65 HP	2.00	0.30	0.60	
ROTOBLICK (SX)	145 HP	1.00	0.25	0.25	
IRRIGATE (5X)		5.00	0.25	3.02	
COMBINE (CUSTOM) PER CWT					0.42
HAUL (CUSTOM) PER CWT					0.19

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
	*	*	*	*	**	**	**	**	**
0	0.000060	0.000020	0.000020	0.000020	0.000060	0.000140	0.000040	0.000240	0.000200
50	0.000060	0.000020	0.000020	0.000020	0.000060	0.000140	0.000040	0.000240	0.000200
100	0.000060	0.000020	0.000060	0.000020	0.000140	0.000220	0.000020	0.000380	0.000300
200	0.000030	0.000030	0.000420	0.000040	0.000300	0.000360	0.000110	0.000510	0.000300
300	0.000030	0.000050	0.000360	0.000060	0.000230	0.000310	0.000140	0.000620	0.000400
400	0.000030	0.000060	0.000300	0.000080	0.000230	0.000260	0.000170	0.000730	0.000430
500	0.000030	0.000070	0.000360	0.000100	0.000360	0.000310	0.000370	0.000870	0.000430
600	0.000030	0.000090	0.000360	0.000120	0.000310	0.000360	0.000290	0.000960	0.000520
700	0.000030	0.000100	0.000360	0.000130	0.000330	0.000410	0.000200	0.000910	0.000540
800	0.000030	0.000110	0.000320	0.000150	0.000350	0.000430	0.000210	0.000980	0.000560
900	0.000030	0.000120	0.000320	0.000160	0.000370	0.000450	0.000230	0.001020	0.000600
1000	0.000060	0.000130	0.000310	0.000160	0.000380	0.000460	0.000230	0.001070	0.000630
1100	0.000060	0.000140	0.000310	0.000170	0.000400	0.000480	0.000240	0.001120	0.000660
1400	0.000065	0.000170	0.000300	0.000230	0.000435	0.000520	0.000410	0.001360	0.000765
1500	0.000160	0.000170	0.000300	0.000230	0.000435	0.000520	0.000410	0.001360	0.000765
1600	0.000150	0.000180	0.000300	0.000250	0.000465	0.000525	0.000235	0.001235	0.000695
1800	0.000075	0.000170	0.000285	0.000285	0.000465	0.000560	0.000295		
2000	0.000110	0.000090	0.000380	0.000305	0.000505	0.000560	0.000310		
2500	0.000054								
3000	0.000070								
3500	0.000092								
4000	0.000092								
4500	0.000108								
5000	0.000122								
5500	0.000136								
6000	0.000148								
6500	0.000162								
7000	0.000176								
7500	0.000188								
8000	0.000204								

* Based on unpublished data of D. R. Hunt, Department of Agricultural Engineering, University of Illinois.

** Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1968.

Codes

1 tractors
2 balers, combines, forage harvesters, windrowers, pickups
3 rotary hoe, disks, moldboard plows, chisels, field cultivators row cultivators, lister plows
4 harrows, wagons, floats, roto-buck, drag, roller, water furrow, bed shaper
5 balewagons, cotton pickers, cotton strippers, corn pickers corn heads, forage equipment, rotary mowers, stalk choppers, feed wagons, farm trucks
6 all terrain vehicles
7 baler w/ engine, manure spreader
8 planters, drills, seeding equipment, mounted sprayers
9 fertilizer distributing equipment

TABLE 6. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2017

Planting dates: August 15 - October 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
PURCHASED INPUTS				
SEED	$3.05	25 LBS	$76.25	$76.25
NITROGEN (N)	$0.22	20 LBS	$4.40	$4.40
PHOSPHATE (P2O5)	$0.27	50 LBS	$13.50	$13.50
PUMP WATER*		5 AC. IN.		
CANAL WATER		15 AC. IN.		$0.00
SUBTOTAL			$94.15	$94.15

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		$1.45	$3.30	$1.15	$2.71	$8.61
PLOW	145 HP	0.67 HR		$5.73	$12.99	$5.44	$12.51	$36.67
DISC	145 HP	0.17 HR		$1.45	$3.30	$1.15	$2.71	$8.61
FLOAT	145 HP	0.24 HR		$2.05	$4.65	$0.96	$2.75	$10.41
FERTILIZE	65 HP	0.05 HR		$0.43	$0.51	$0.11	$1.49	$2.54
LISTER	65 HP	0.18 HR		$1.54	$1.84	$0.59	$1.52	$5.49
MULCHER	145 HP	0.15 HR		$1.28	$2.91	$1.29	$4.43	$9.92
SEEDER	65 HP	0.05 HR		$0.43	$0.51	$0.11	$1.49	$2.54
MULCHER	145 HP	0.15 HR		$1.28	$2.91	$1.29	$4.43	$9.92
LISTER	65 HP	0.18 HR		$1.54	$1.84	$0.59	$1.52	$5.49
IRRIGATE (4X)		2.00 HR		$15.00	$5.05	$0.00	$1.93	$21.98
SUBTOTAL		4.01 HR		$32.19	$39.79	$12.69	$37.50	$122.16
OVERHEAD EXPENSES								
DOWNTIME		0.50 HR		$4.30				$4.30
EMPLOYEE BENEFITS				$5.79				$5.79
INSURANCE			$0.64					$0.64
SUPERVISION AND MANAGEMENT				$17.86				$17.86
SUBTOTAL		0.50 HR	$0.64	$27.95				$28.59
TOTAL OPERATING EXPENSES		4.51 HR	$94.79	$60.13	$39.79	$12.69	$37.50	$244.90

* Pump water costs are shown under irrigation in the preharvest operation section.

TABLE 7. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2017

Harvest dates: June 1 - October 10

ITEM	PRICE	YIELD		TOTAL
GROSS RETURNS				
ALFALFA HAY	$165.00	6.00	TONS (IN FIELD)	$990.00
GRAZING	$15.00	1.00	ACRE	$15.00
TOTAL				$1,005.00

PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS	FIXED COST	TOTAL
WIRE	1.32	51	LBS	$67.87		$67.87
ESTABLISHMENT: Principal		3	YEARS		$81.63	$81.63
: Interest					$7.74	$7.74
CANAL WATER		36	AC. IN.		$45.00	$45.00
PUMP WATER*		18	AC. IN.			
SUBTOTAL				$67.87	$134.38	$202.25

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (9X)		4.50	HR		$33.75	$18.18	$0.00	$6.96	$58.89
SUBTOTAL		4.50	HR		$33.75	$18.18	$0.00	$6.96	$58.89
HARVEST OPERATIONS									
SWATHER (5X)	14 FT	0.80	HR		$6.84	$7.04	$0.46	$34.60	$48.94
BALER, PTO (5X)	145 HP	1.05	HR		$8.98	$20.35	$4.33	$19.89	$53.56
SUBTOTAL		1.85	HR		$15.82	$27.39	$4.80	$54.49	$102.50
OVERHEAD EXPENSES									
DOWNTIME		0.46	HR		$3.95				$3.95
EMPLOYEE BENEFITS					$8.92				$8.92
INSURANCE				$0.99					$0.99
LAND TAXES								$2.56	$2.56
SUPERVISION AND MANAGEMENT					$75.78				$75.78
OTHER EXPENSES				$133.78					$133.78
SUBTOTAL		0.46	HR	$134.77	$88.65			$2.56	$225.99
TOTAL OPERATING EXPENSES		6.81	HR	$202.65	$138.22	$45.58	$4.80	$198.39	$589.63
NET OPERATING PROFIT									$415.37
INTEREST ON OPERATING CAPITAL		($41.17	@	5.50%)					$2.26
INTEREST ON EQUIPMENT INVESTMENT									$19.71
RETURN TO LAND AND RISK									$393.40

* Pump water costs are shown under irrigation in the preharvest operation section.

BUDGET SUMMARY

GROSS RETURN		$1,005.00	
VARIABLE OPERATING EXPENSES	$253.02		
RETURN OVER VARIABLE EXPENSES		$751.98	(GROSS MARGIN)
FIXED EXPENSES	$198.39		
NET FARM INCOME		$553.59	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	$138.22		
NET OPERATING PROFIT		$415.37	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	$21.97		
RETURN TO LAND AND RISK		$393.40	

TABLE 8. Corn silage, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2017

Planting dates: April 15 - May 31

Harvest dates: August 15 - October 15

ITEM	PRICE	YIELD		TOTAL
GROSS RETURNS				
CORN SILAGE	$35.00	25.00	TONS (STANDING)	$875.00
TOTAL				$875.00

PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS	FIXED COST	TOTAL
SEED	$3.75	30	000	$112.50		$112.50
NITROGEN (N)	$0.22	32	LBS	$7.04		$7.04
PHOSPHATE (P205)	$0.27	40	LBS	$10.80		$10.80
CANAL WATER		36	AC. IN.		$45.00	$45.00
PUMP WATER*		14	AC. IN.			
SUBTOTAL				$130.34	$45.00	$175.34

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	65 HP	0.05	HR		$0.43	$0.51	$0.11	$1.49	$2.54
DISC	145 HP	0.17	HR		$1.45	$3.30	$1.15	$2.71	$8.61
CHISEL	145 HP	0.20	HR		$1.71	$3.88	$1.09	$3.56	$10.24
DISC	145 HP	0.17	HR		$1.45	$3.30	$1.15	$2.71	$8.61
FLOAT	65 HP	0.24	HR		$2.05	$2.45	$0.31	$1.06	$5.87
LISTER	65 HP	0.18	HR		$1.54	$1.84	$0.59	$1.52	$5.49
PRE-IRRIGATE		0.75	HR		$5.63	$1.77	$0.00	$0.68	$8.07
MULCHER	145 HP	0.15	HR		$1.28	$2.91	$1.29	$4.43	$9.92
PLANTER	145 HP	0.26	HR		$2.22	$5.04	$1.46	$7.56	$16.28
CULTIVATOR (2X)	65 HP	0.42	HR		$3.59	$4.29	$1.32	$2.24	$11.44
ROTOBUCK (3X)	145 HP	0.09	HR		$0.77	$1.74	$0.36	$1.80	$4.67
IRRIGATE (7X)		3.50	HR		$26.25	$12.37	$0.00	$4.74	$43.36
SUBTOTAL		6.18	HR		$48.38	$43.39	$8.84	$34.49	$135.09
OVERHEAD EXPENSES									
DOWNTIME		0.46	HR		$3.93				$3.93
EMPLOYEE BENEFITS					$8.71				$8.71
INSURANCE				$0.97					$0.97
LAND TAXES								$2.56	$2.56
SUPERVISION AND MANAGEMENT					$66.42				$66.42
OTHER EXPENSES				$133.78					$133.78
SUBTOTAL		0.46	HR	$134.75	$79.06			$2.56	$216.37
TOTAL OPERATING EXPENSES		6.64	HR	$265.09	$127.44	$43.39	$8.84	$82.05	$526.81
NET OPERATING PROFIT									$348.19
INTEREST ON OPERATING CAPITAL		($78.23	@	5.50%)					$4.30
INTEREST ON EQUIPMENT INVESTMENT									$18.27
RETURN TO LAND AND RISK									$325.63

* Pump water costs are shown under irrigation in the preharvest operation section.

BUDGET SUMMARY

GROSS RETURN		$875.00	
VARIABLE OPERATING EXPENSES	$317.32		
RETURN OVER VARIABLE EXPENSES		$557.68	(GROSS MARGIN)
FIXED EXPENSES	$82.05		
NET FARM INCOME		$475.63	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	$127.44		
NET OPERATING PROFIT		$348.19	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	$22.57		
RETURN TO LAND AND RISK		$325.63	

TABLE 9. Upland cotton (picker), flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with average management, Virden area, Hidalgo County, Projected 2017
Planting dates: April 10 - April 30
Harvest dates: October 15 - December 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
LINT	$0.75	600.00 LBS		$450.00
SEED	$0.09	960.00 LBS		$86.40
DIRECT PAYMENT	$0.0000	600.00 LBS	0.85	$0.00
COUNTER CYCLICAL PAYMENT	$0.0000	1,060.00 LBS	0.85	$0.00
TOTAL				$536.40

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	$7.55	17 LBS	$128.35		$128.35
NITROGEN (N)	$0.22	80 LBS	$17.60		$17.60
PHOSPHATE (P205)	$0.27	60 LBS	$16.20		$16.20
HERBICIDE	$14.08	1 ACRE	$14.08		$14.08
CANAL WATER		24 AC. IN.	$0.00	$45.00	$45.00
PUMP WATER*		12 AC. IN.			
CROP INSURANCE	$0.74		$0.74		$0.74
SUBTOTAL			$176.97	$45.00	$221.97

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	65 HP	0.05 HR		$0.43	$0.51	$0.11	$1.49	$2.54
DISC	145 HP	0.17 HR		$1.45	$3.30	$1.15	$2.71	$8.61
PLOW	145 HP	0.67 HR		$5.73	$12.99	$5.44	$12.51	$36.67
DISC & SPRAY	145 HP	0.15 HR		$1.28	$2.91	$1.11	$3.61	$8.91
FLOAT	65 HP	0.24 HR		$2.05	$2.45	$0.31	$1.06	$5.87
LISTER	145 HP	0.18 HR		$1.54	$3.49	$1.07	$2.79	$8.89
PRE-IRRIGATE		0.75 HR		$5.63	$1.35	$0.00	$0.52	$7.49
MULCHER	145 HP	0.14 HR		$1.20	$2.71	$1.21	$4.14	$9.25
PLANTER	145 HP	0.26 HR		$2.22	$5.04	$1.46	$7.56	$16.28
CULTIVATOR (4X)	65 HP	0.84 HR		$7.18	$8.58	$2.65	$4.48	$22.89
HOEING (CUSTOM)			$24.00					$24.00
ROTOBUCK (3X)	145 HP	0.03 HR		$0.26	$0.58	$0.12	$0.60	$1.56
IRRIGATE (8X)		4.00 HR		$30.00	$10.77	$0.00	$4.13	$44.90
SUBTOTAL		7.48 HR	$24.00	$58.97	$54.68	$14.64	$45.58	$197.86
HARVEST OPERATIONS								
COTTON PICKER (2X)	2 ROW	1.24 HR		$10.60	$17.62	$8.87	$92.49	$129.58
COTTON TRAILER (2X)	HALF TON	2.50 HR		$21.38	$33.08	$2.02	$20.39	$76.86
GIN COTTON (CUSTOM)			$68.52					$68.52
SUBTOTAL		3.74 HR	$68.52	$31.98	$50.70	$10.89	$112.88	$274.96
POSTHARVEST OPERATIONS								
SHREDDER	65 HP	0.29 HR		$2.48	$2.96	$0.43	$3.49	$9.37
SUBTOTAL		0.29 HR		$2.48	$2.96	$0.43	$3.49	$9.37
OVERHEAD EXPENSES								
DOWNTIME		1.56 HR		$13.32				$13.32
EMPLOYEE BENEFITS				$16.82				$16.82
INSURANCE			$1.87					$1.87
LAND TAXES							$2.56	$2.56
SUPERVISION AND MANAGEMENT				$44.66				$44.66
OTHER EXPENSES			$133.78					$133.78
SUBTOTAL		1.56 HR	$135.65	$74.80			$2.56	$213.01
TOTAL OPERATING EXPENSES		13.07 HR	$405.13	$168.22	$108.34	$25.96	$209.51	$917.16
NET OPERATING PROFIT								($380.76)
INTEREST ON OPERATING CAPITAL		($117.50 @	5.50%)					$6.46
INTEREST ON EQUIPMENT INVESTMENT								$78.58
RETURN TO LAND AND RISK								($465.81)

* Pump water costs are shown under irrigation in the preharvest operation section.

BUDGET SUMMARY

GROSS RETURN		$536.40	
VARIABLE OPERATING EXPENSES	$539.43		
RETURN OVER VARIABLE EXPENSES		($3.03)	(GROSS MARGIN)
FIXED EXPENSES	$209.51		
NET FARM INCOME		($212.54)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	$168.22		
NET OPERATING PROFIT		($380.76)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	$85.04		
RETURN TO LAND AND RISK		($465.81)	

TABLE 10. Grain sorghum, flood-irrigated, budgeted per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2017

Planting dates: May 1 - June 15

Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD		BASE	TOTAL
GROSS RETURNS					
GRAIN SORGHUM	$5.91	60.00	CWT		$354.86
DIRECT PAYMENT	$0.00	60.00	CWT	0.85	$0.00
COUNTER CYCLICAL PAYMENT	$0.00	0.00	CWT		$0.00
GRAZING	$10.00	1.00	ACRE		$10.00
TOTAL					$364.86

PURCHASED INPUTS	PRICE	QUANTITY		PURCHASED INPUTS	FIXED COST	TOTAL
SEED	$1.70	8	LBS	$13.60		$13.60
NITROGEN (N)	$0.22	32	LBS	$7.04		$7.04
PHOSPHATE (P205)	$0.27	40	LBS	$10.80		$10.80
HERBICIDE	$14.08	1	ACRE	$14.08		$14.08
INSECTICIDE	$11.30	1	ACRE	$11.30		$11.30
CANAL WATER		28	AC. IN.		$45.00	$45.00
PUMP WATER*		12	AC. IN.			
CROP INSURANCE	$1.47			$1.47		$1.47
SUBTOTAL				$58.29	$45.00	$103.29

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZER	65 HP	0.15	HR		$1.28	$1.53	$0.33	$4.46	$7.61
DISC	145 HP	0.20	HR		$1.71	$3.88	$1.35	$3.19	$10.13
CHISEL	145 HP	0.40	HR		$3.42	$7.75	$2.18	$7.12	$20.48
DISC	145 HP	0.20	HR		$1.71	$3.88	$1.35	$3.19	$10.13
FLOAT	145 HP	0.25	HR		$2.14	$4.85	$1.00	$2.87	$10.85
SPRAYER	65 HP	0.20	HR		$1.71	$2.04	$0.39	$2.25	$6.39
LISTER	65 HP	0.50	HR		$4.28	$5.11	$1.64	$4.22	$15.24
PRE-IRRIGATE		0.75	HR		$5.63	$2.02	$0.00	$0.77	$8.42
MULCHER	145 HP	0.20	HR		$1.71	$3.88	$1.72	$5.91	$13.22
PLANTER	145 HP	0.25	HR		$2.14	$4.85	$1.40	$7.27	$15.65
SPRAYER	65 HP	0.20	HR		$1.71	$2.04	$0.39	$2.25	$6.39
CULTIVATOR (2X)	65 HP	0.60	HR		$5.13	$6.13	$1.89	$3.20	$16.35
ROTOBUCK (3X)	145 HP	0.25	HR		$2.14	$4.85	$1.00	$4.99	$12.98
IRRIGATE (5X)		2.50	HR		$18.75	$10.10	$0.00	$3.87	$32.72
SUBTOTAL		6.65	HR		$53.45	$62.89	$14.66	$55.56	$186.56
HARVEST OPERATIONS									
COMBINE (CUSTOM)				$25.20					$25.20
HAUL (CUSTOM)				$11.40					$11.40
SUBTOTAL		0.00	HR	$36.60					$36.60
OVERHEAD EXPENSES									
DOWNTIME		0.61	HR		$5.24				$5.24
EMPLOYEE BENEFITS					$9.62				$9.62
INSURANCE				$1.07					$1.07
LAND TAXES								$2.56	$2.56
SUPERVISION AND MANAGEMENT					$27.57				$27.57
OTHER EXPENSES				$133.78					$133.78
SUBTOTAL		0.61	HR	$134.85	$42.42			$2.56	$179.84
TOTAL OPERATING EXPENSES		7.26	HR	$229.74	$95.87	$62.89	$14.66	$103.12	$506.28
NET OPERATING PROFIT									($141.43)
INTEREST ON OPERATING CAPITAL		($51.58	@	5.50%)					$2.84
INTEREST ON EQUIPMENT INVESTMENT									$29.42
RETURN TO LAND AND RISK									($173.68)

* Pump water costs are shown under irrigation in the preharvest operation section.

BUDGET SUMMARY

GROSS RETURN		$364.86	
VARIABLE OPERATING EXPENSES	$307.29		
RETURN OVER VARIABLE EXPENSES		$57.56	(GROSS MARGIN)
FIXED EXPENSES	$103.12		
NET FARM INCOME		($45.56)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	$95.87		
NET OPERATING PROFIT		($141.43)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	$32.26		
RETURN TO LAND AND RISK		($173.68)	

TABLE 11. Summary of per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2017

	ALFALFA ESTABLISHMENT	ALFALFA HAY	CORN SILAGE	PICKER COTTON	GRAIN SORGHUM
		TONS	TONS	LBS	CWT
PRIMARY YIELD		6.00	25.00	600.00	60.00
PRIMARY PRICE		$165.00	$35.00	$0.75	$5.91
GOVERNMENT PAYMENTS		$0.00	$0.00	$0.00	$0.00
SECOND INCOME		$15.00	$0.00	$86.40	$10.00
GROSS RETURN		$1,005.00	$875.00	$536.40	$364.86
CASH OPERATING EXPENSES					
SEED	$76.25		$112.50	$128.35	$13.60
FERTILIZER	$17.90		$17.84	$33.80	$17.84
CHEMICALS				$14.08	$25.38
CROP INSURANCE				$0.74	$1.47
OTHER PURCHASED INPUTS		$67.87			
CANAL WATER	$0.00	$0.00	$0.00	$0.00	$0.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	$34.74	$27.39	$29.25	$96.21	$50.77
FUEL-IRRIGATION	$5.05	$18.18	$14.14	$12.12	$12.12
REPAIRS	$12.69	$4.80	$8.84	$25.96	$14.66
CUSTOM CHARGES				$92.52	$36.60
LAND TAXES		$2.56	$2.56	$2.56	$2.56
OTHER EXPENSES	$0.64	$134.77	$134.75	$135.65	$134.85
TOTAL CASH EXPENSES	$147.28	$255.58	$319.88	$541.99	$309.86
RETURN OVER CASH EXPENSES	($147.28)	$749.42	$555.12	($5.59)	$55.00
FIXED EXPENSES	$37.50	$195.83	$79.49	$206.95	$100.56
TOTAL EXPENSES	$184.77	$451.41	$399.37	$748.94	$410.42
NET FARM INCOME	($184.77)	$553.59	$475.63	($212.54)	($45.56)
LABOR AND MANAGEMENT COSTS	$60.13	$138.22	$127.44	$168.22	$95.87
NET OPERATING PROFIT	($244.90)	$415.37	$348.19	($380.76)	($141.43)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		$2.26	$4.30	$6.46	$2.84
INTEREST ON EQUIPMENT INVESTMENT		$19.71	$18.27	$78.58	$29.42
TOTAL CAPITAL COSTS	$0.00	$21.97	$22.57	$85.04	$32.26
RETURN TO LAND AND RISK	($244.90)	$393.40	$325.63	($465.81)	($173.68)

TABLE 12. Whole farm summary, Virden area, Hidalgo County, Projected 2017

GROSS RETURNS				
ALFALFA HAY	45.00	ACRES		
CROP			$44,550	
GRAZING			$675	
CORN SILAGE	43.00	ACRES		
CROP			$37,625	
UPLAND COTTON	68.00	ACRES		
LINT			$30,600	
SEED			$5,875	
DIRECT PAYMENT			$0	
COUNTER CYCLICAL PAYMENT			$0	
GRAIN SORGHUM	34.00	ACRES		
CROP			$12,065	
DIRECT PAYMENT			$0	
COUNTER CYCLICAL PAYMENT			$0	
GRAZING			$340	
GROSS RETURN				$131,390
CASH OPERATING EXPENSES				
SEED			$15,171	
FERTILIZER			$3,941	
CHEMICALS			$1,820	
CROP INSURANCE			$100	
OTHER PURCHASED INPUTS			$3,054	
CANAL WATER			$0	
FUEL, OIL & LUBRICANTS-EQUIPMENT			$11,280	
FUEL-IRRIGATION			$2,738	
REPAIRS			$3,050	
CUSTOM CHARGES			$7,536	
LAND TAXES			$487	
OTHER EXPENSES			$25,678	
TOTAL CASH EXPENSES				$74,856
RETURN OVER CASH EXPENSES				$56,535
FIXED EXPENSES			$26,611	
TOTAL EXPENSES				$101,466
NET FARM INCOME				$29,924
LABOR AND MANAGEMENT COSTS			$27,300	
NET OPERATING PROFIT				$2,624
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL			$823	
INTEREST ON EQUIPMENT INVESTMENT			$8,016	
TOTAL CAPITAL COSTS				$8,839
RETURN TO LAND AND RISK				($6,215)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
$700 /ACRE	($10,415)	1.04%
$900 /ACRE	($11,615)	0.90%
$1,100 /ACRE	($12,815)	0.79%
$1,300 /ACRE	($14,015)	0.71%
$1,500 /ACRE	($15,215)	0.64%
$1,700 /ACRE	($16,415)	0.58%
$1,900 /ACRE	($17,615)	0.53%

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)
** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)