

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... VIRDEN AREA, HIDALGO COUNT Projected 2013.
FARM SIZE..... 200.00 ACRES
IRRIGATION TYPE..... FLOOD
NUMBER OF CROPS..... 4

VERSION 1.0

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TABLE 1. Acreage Summary, Hidalgo County, Projected 2013.

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

ACREAGE SUMMARY:	WATER USE		
	LAND USE (ACRES)	AC. IN. PER ACRE	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 2013.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$8.55
General & Irrigators	\$/hour	\$7.50
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.61
Phosphate (P205)	\$/pound	\$0.60
Seed:		
Alfalfa	\$/pound	\$6.50
Upland Cotton (picker)	\$/pound	\$8.00
Corn for Silage	\$/bag	\$242.80
Grain Sorghum	\$/pound	\$2.04
Canal Water	\$/acre	\$45.00
Wire:	\$/lb.	\$0.91
Energy:		
Diesel fuel	\$/gallon	\$3.00
Gasoline	\$/gallon	\$3.80
Electricity	cents/KwHr	8.45
LP Gas	\$/gallon	\$2.85
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	5.00%
Land Interest Rate	percent	5.00%
Equipment Interest Rate	percent	5.00%
Real Interest Rate	percent	3.00%
Land Taxes	\$348.00 /acre (full value)	\$2.31
Personal Property Tax Rate	- NR - R	\$/ \$1,000 (Assessed Value) \$19.93 \$22.21
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 2013.

Item			
Electricity (Domestic & Shop)	\$159.00	per month	\$1,908
Telephone	\$84.80	per month	\$1,018
Accounting & Legal			\$1,049
Misc. Supplies & Hand Tools			\$1,505
Pickup and Auto			
miles	15,900	@	\$0.415 per mile
Insurance			
- general liability (non-employee)			\$1,272
- fire/theft			\$975
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$859
Dues, fees, publications			\$307
Farmstead Equipment			\$159
		Total	\$21,661
		Total per planted acre	\$114.00

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 2013.
Planting dates: August 15 - October 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
PURCHASED INPUTS									
SEED	\$6.50	25 LBS	\$162.50						\$162.50
NITROGEN (N)	\$0.61	20 LBS	\$12.20						\$12.20
PHOSPHATE (P2O5)	\$0.60	50 LBS	\$30.00						\$30.00
PUMP WATER*		5 AC. IN.							
CANAL WATER		15 AC. IN.							\$0.00
SUBTOTAL			\$204.70						\$204.70
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	145 HP	0.17 HR		\$1.45	\$4.21	\$1.15	\$2.69	\$9.50	
PLOW	145 HP	0.67 HR		\$5.73	\$16.58	\$5.44	\$12.43	\$40.18	
DISC	145 HP	0.17 HR		\$1.45	\$4.21	\$1.15	\$2.69	\$9.50	
FLOAT	145 HP	0.24 HR		\$2.05	\$5.94	\$0.96	\$2.73	\$11.68	
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.92	\$0.11	\$1.48	\$2.94	
LISTER	65 HP	0.18 HR		\$1.54	\$3.33	\$0.59	\$1.51	\$6.96	
MULCHER	145 HP	0.15 HR		\$1.28	\$3.71	\$1.29	\$4.40	\$10.69	
SEEDER	65 HP	0.05 HR		\$0.43	\$0.92	\$0.11	\$1.48	\$2.94	
MULCHER	145 HP	0.15 HR		\$1.28	\$3.71	\$1.29	\$4.40	\$10.69	
LISTER	65 HP	0.18 HR		\$1.54	\$3.33	\$0.59	\$1.51	\$6.96	
IRRIGATE (4X)		2.00 HR		\$15.00	\$5.05	\$0.00	\$1.92	\$21.97	
SUBTOTAL		4.01 HR		\$32.19	\$51.91	\$12.69	\$37.24	\$134.02	
OVERHEAD EXPENSES									
DOWNTIME		0.50 HR		\$4.30					\$4.30
EMPLOYEE BENEFITS				\$5.79					\$5.79
INSURANCE			\$0.64					\$0.64	
SUPERVISION AND MANAGEMENT				\$26.43					\$26.43
SUBTOTAL		0.50 HR	\$0.64	\$36.51					\$37.16
TOTAL OPERATING EXPENSES		4.51 HR	\$205.34	\$68.70	\$51.91	\$12.69	\$37.24	\$375.88	

* 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 2013.
Harvest dates: June 1 - October 10

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
ALFALFA HAY	\$235.00	6.50 TONS (IN FIELD)						\$1,527.50	
GRAZING	\$15.00	1.00 ACRE						\$15.00	
TOTAL								\$1,542.50	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
WIRE	0.91	56 LBS	\$50.69					\$50.69	
ESTABLISHMENT: Principal		3 YEARS					\$125.29	\$125.29	
: Interest							\$11.47	\$11.47	
CANAL WATER		36 AC. IN.					\$45.00	\$45.00	
PUMP WATER*		18 AC. IN.							
SUBTOTAL			\$50.69				\$181.76	\$232.45	
PREHARVEST OPERATIONS									
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	\$6.90	\$58.84	
SUBTOTAL		4.50 HR		\$33.75	\$18.18	\$0.00	\$6.90	\$58.84	
HARVEST OPERATIONS									
SWATHER (5X)	14 FT	0.80 HR		\$6.84	\$8.99	\$0.46	\$34.36	\$50.65	
BALER, PTO (5X)	145 HP	1.05 HR		\$8.98	\$25.98	\$4.33	\$19.74	\$59.04	
SUBTOTAL		1.85 HR		\$15.82	\$34.97	\$4.80	\$54.11	\$109.69	
OVERHEAD EXPENSES									
DOWNTIME		0.46 HR		\$3.95				\$3.95	
EMPLOYEE BENEFITS				\$8.92				\$8.92	
INSURANCE			\$0.99					\$0.99	
LAND TAXES							\$2.31	\$2.31	
SUPERVISION AND MANAGEMENT				\$113.40				\$113.40	
OTHER EXPENSES			\$114.00					\$114.00	
SUBTOTAL		0.46 HR		\$115.00	\$126.28		\$2.31	\$243.58	
TOTAL OPERATING EXPENSES		6.81 HR		\$165.69	\$175.84	\$4.80	\$245.08	\$644.56	
NET OPERATING PROFIT								\$897.94	
INTEREST ON OPERATING CAPITAL		(\$33.21	@	5.00%)		\$1.66	
INTEREST ON EQUIPMENT INVESTMENT									\$17.92
RETURN TO LAND AND RISK								\$878.36	

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

BUDGET SUMMARY

GROSS RETURN		\$1,542.50	
VARIABLE OPERATING EXPENSES	\$223.64		
RETURN OVER VARIABLE EXPENSES		\$1,318.86	(GROSS MARGIN)
FIXED EXPENSES	\$245.08		
NET FARM INCOME		\$1,073.78	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$175.84		
NET OPERATING PROFIT		\$897.94	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$19.58		
RETURN TO LAND AND RISK		\$878.36	

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 2013.
 Planting dates: April 15 - May 31
 Harvest dates: August 15 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
CORN SILAGE	\$55.00	25.00 TONS (STANDING)						\$1,375.00
TOTAL							\$1,375.00	
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$3.04	30 000	\$91.05					\$91.05
NITROGEN (N)	\$0.61	32 LBS	\$19.52					\$19.52
PHOSPHATE (P205)	\$0.60	40 LBS	\$24.00					\$24.00
CANAL WATER		36 AC. IN.					\$45.00	\$45.00
PUMP WATER*		14 AC. IN.						
SUBTOTAL			\$134.57				\$45.00	\$179.57
PREHARVEST OPERATIONS								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.92	\$0.11	\$1.48	\$2.94
DISC	145 HP	0.17 HR		\$1.45	\$4.21	\$1.15	\$2.69	\$9.50
CHISEL	145 HP	0.20 HR		\$1.71	\$4.95	\$1.09	\$3.54	\$11.29
DISC	145 HP	0.17 HR		\$1.45	\$4.21	\$1.15	\$2.69	\$9.50
FLOAT	65 HP	0.24 HR		\$2.05	\$4.43	\$0.31	\$1.04	\$7.84
LISTER	65 HP	0.18 HR		\$1.54	\$3.33	\$0.59	\$1.51	\$6.96
PRE-IRRIGATE		0.75 HR		\$5.63	\$1.77	\$0.00	\$0.67	\$8.06
MULCHER	145 HP	0.15 HR		\$1.28	\$3.71	\$1.29	\$4.40	\$10.69
PLANTER	145 HP	0.26 HR		\$2.22	\$6.43	\$1.46	\$7.52	\$17.63
CULTIVATOR (2X)	65 HP	0.42 HR		\$3.59	\$7.76	\$1.32	\$2.22	\$14.89
ROTOBUCK (3X)	145 HP	0.09 HR		\$0.77	\$2.23	\$0.36	\$1.78	\$5.14
IRRIGATE (7X)		3.50 HR		\$26.25	\$12.37	\$0.00	\$4.70	\$43.32
SUBTOTAL		6.18 HR		\$48.38	\$56.32	\$8.84	\$34.25	\$147.78
OVERHEAD EXPENSES								
DOWNTIME		0.46 HR		\$3.93				\$3.93
EMPLOYEE BENEFITS				\$8.71				\$8.71
INSURANCE			\$0.97					\$0.97
LAND TAXES							\$2.31	\$2.31
SUPERVISION AND MANAGEMENT				\$101.42				\$101.42
OTHER EXPENSES			\$114.00					\$114.00
SUBTOTAL		0.46 HR	\$114.97	\$114.06			\$2.31	\$231.34
TOTAL OPERATING EXPENSES		6.64 HR	\$249.54	\$162.44	\$56.32	\$8.84	\$81.56	\$558.70
NET OPERATING PROFIT							\$816.30	
INTEREST ON OPERATING CAPITAL		(\$83.58	@	5.00%)	\$4.18	
INTEREST ON EQUIPMENT INVESTMENT							\$16.61	
RETURN TO LAND AND RISK							\$795.52	

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

BUDGET SUMMARY			
GROSS RETURN		\$1,375.00	
VARIABLE OPERATING EXPENSES	\$314.71		
RETURN OVER VARIABLE EXPENSES	\$1,060.29		(GROSS MARGIN)
FIXED EXPENSES	\$81.56		
NET FARM INCOME	\$978.74		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$162.44		
NET OPERATING PROFIT	\$816.30		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$20.78		
RETURN TO LAND AND RISK		\$795.52	

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 2013.
 Planting dates: April 10 - April 30
 Harvest dates: October 15 - December 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
LINT	\$0.72	600.00 LBS		\$432.00
SEED	\$0.07	960.00 LBS		\$62.40
DIRECT PAYMENT	\$0.0000	600.00 LBS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.0667	1,060.00 LBS	0.85	\$60.10
TOTAL				\$554.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$8.00	17 LBS	\$136.00		\$136.00
NITROGEN (N)	\$0.61	80 LBS	\$48.80		\$48.80
PHOSPHATE (P205)	\$0.60	60 LBS	\$36.00		\$36.00
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			\$235.62	\$45.00	\$280.62

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.92	\$0.11	\$1.48	\$2.94
DISC	145 HP	0.17 HR		\$1.45	\$4.21	\$1.15	\$2.69	\$9.50
PLOW	145 HP	0.67 HR		\$5.73	\$16.58	\$5.44	\$12.43	\$40.18
DISC & SPRAY	145 HP	0.15 HR		\$1.28	\$3.71	\$1.11	\$3.59	\$9.70
FLOAT	65 HP	0.24 HR		\$2.05	\$4.43	\$0.31	\$1.04	\$7.84
LISTER	145 HP	0.18 HR		\$1.54	\$4.45	\$1.07	\$2.77	\$9.84
PRE-IRRIGATE		0.75 HR		\$5.63	\$1.35	\$0.00	\$0.51	\$7.48
MULCHER	145 HP	0.14 HR		\$1.20	\$3.46	\$1.21	\$4.11	\$9.98
PLANTER	145 HP	0.26 HR		\$2.22	\$6.43	\$1.46	\$7.52	\$17.63
CULTIVATOR (4X)	65 HP	0.84 HR		\$7.18	\$15.52	\$2.65	\$4.44	\$29.79
HOEING (CUSTOM)			\$24.00					\$24.00
ROTOBUCK (3X)	145 HP	0.03 HR		\$0.26	\$0.74	\$0.12	\$0.59	\$1.71
IRRIGATE (8X)		4.00 HR		\$30.00	\$10.77	\$0.00	\$4.09	\$44.87
SUBTOTAL		7.48 HR	\$24.00	\$58.97	\$72.59	\$14.64	\$45.26	\$215.46

HARVEST OPERATIONS								
COTTON PICKER (2X)	2 ROW	1.24 HR		\$10.60	\$22.50	\$8.87	\$92.01	\$133.98
COTTON TRAILER (2X)	HALF TON	2.50 HR		\$21.38	\$59.85	\$1.62	\$17.21	\$100.06
GIN COTTON (CUSTOM)			\$68.52					\$68.52
SUBTOTAL		3.74 HR	\$68.52	\$31.98	\$82.35	\$10.49	\$109.23	\$302.56

POSTHARVEST OPERATIONS								
SHREDDER	65 HP	0.29 HR		\$2.48	\$5.36	\$0.43	\$3.47	\$11.74
SUBTOTAL		0.29 HR		\$2.48	\$5.36	\$0.43	\$3.47	\$11.74

OVERHEAD EXPENSES								
DOWNTIME		1.56 HR		\$13.32				\$13.32
EMPLOYEE BENEFITS				\$16.82				\$16.82
INSURANCE			\$1.87					\$1.87
LAND TAXES						\$2.31		\$2.31
SUPERVISION AND MANAGEMENT				\$45.93				\$45.93
OTHER EXPENSES			\$114.00					\$114.00
SUBTOTAL		1.56 HR	\$115.87	\$76.06		\$2.31		\$194.25

TOTAL OPERATING EXPENSES 13.07 HR \$444.01 \$169.49 \$160.30 \$25.56 \$205.27 \$1,004.62

NET OPERATING PROFIT (\$450.13)

INTEREST ON OPERATING CAPITAL (\$154.51 @ 5.00%) \$7.73
 INTEREST ON EQUIPMENT INVESTMENT \$68.50

RETURN TO LAND AND RISK (\$526.35)

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

GROSS RETURN		\$554.50	
VARIABLE OPERATING EXPENSES	\$629.87		
RETURN OVER VARIABLE EXPENSES		(\$75.37)	(GROSS MARGIN)
FIXED EXPENSES	\$205.27		
NET FARM INCOME		(\$280.64)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$169.49		
NET OPERATING PROFIT		(\$450.13)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$76.22		
RETURN TO LAND AND RISK		(\$526.35)	

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 2013.

Planting dates: May 1 - June 15

Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
GRAIN SORGHUM	\$10.43	60.00 CWT		\$625.93
DIRECT PAYMENT	\$0.00	60.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.63	0.00 CWT		\$0.00
GRAZING	\$10.00	1.00 ACRE		\$10.00
TOTAL				\$635.93

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.04	8 LBS	\$16.32		\$16.32
NITROGEN (N)	\$0.61	32 LBS	\$19.52		\$19.52
PHOSPHATE (P205)	\$0.60	40 LBS	\$24.00		\$24.00
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			\$86.69	\$45.00	\$131.69

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZER	65 HP	0.15 HR		\$1.28	\$2.77	\$0.33	\$4.44	\$8.82
DISC	145 HP	0.20 HR		\$1.71	\$4.95	\$1.35	\$3.17	\$11.18
CHISEL	145 HP	0.40 HR		\$3.42	\$9.90	\$2.18	\$7.07	\$22.57
DISC	145 HP	0.20 HR		\$1.71	\$4.95	\$1.35	\$3.17	\$11.18
FLOAT	145 HP	0.25 HR		\$2.14	\$6.19	\$1.00	\$2.84	\$12.17
SPRAYER	65 HP	0.20 HR		\$1.71	\$3.70	\$0.39	\$2.23	\$8.03
LISTER	65 HP	0.50 HR		\$4.28	\$9.24	\$1.64	\$4.19	\$19.34
PRE-IRRIGATE		0.75 HR		\$5.63	\$2.02	\$0.00	\$0.77	\$8.41
MULCHER	145 HP	0.20 HR		\$1.71	\$4.95	\$1.72	\$5.87	\$14.26
PLANTER	145 HP	0.25 HR		\$2.14	\$6.19	\$1.40	\$7.23	\$16.95
SPRAYER	65 HP	0.20 HR		\$1.71	\$3.70	\$0.39	\$2.23	\$8.03
CULTIVATOR (2X)	65 HP	0.60 HR		\$5.13	\$11.09	\$1.89	\$3.17	\$21.28
ROTOBUCK (3X)	145 HP	0.25 HR		\$2.14	\$6.19	\$1.00	\$4.96	\$14.28
IRRIGATE (5X)		2.50 HR		\$18.75	\$10.10	\$0.00	\$3.84	\$32.69
SUBTOTAL		6.65 HR		\$53.45	\$85.91	\$14.66	\$55.17	\$209.19

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						\$2.31		\$2.31
SUPERVISION AND MANAGEMENT				\$46.54				\$46.54
OTHER EXPENSES				\$114.00				\$114.00
SUBTOTAL		0.61 HR		\$115.07	\$61.40		\$2.31	\$178.78

TOTAL OPERATING EXPENSES		7.26 HR		\$238.37	\$114.84	\$85.91	\$14.66	\$102.49	\$556.26
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NET OPERATING PROFIT									\$79.66
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INTEREST ON OPERATING CAPITAL	(\$71.54	@	5.00%)				\$3.58
INTEREST ON EQUIPMENT INVESTMENT									\$26.75

RETURN TO LAND AND RISK									\$49.34
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* Pump water costs are shown under irrigation in the preharvest operation section.

BUDGET SUMMARY

GROSS RETURN		\$635.93		
VARIABLE OPERATING EXPENSES	\$338.94			
RETURN OVER VARIABLE EXPENSES		\$296.99	(GROSS MARGIN)	
FIXED EXPENSES	\$102.49			
NET FARM INCOME		\$194.51	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$114.84			
NET OPERATING PROFIT		\$79.66	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$30.32			
RETURN TO LAND AND RISK		\$49.34		

TABLE 11. Summary of per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2013.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	CORN SILAGE	PICKER COTTON	GRAIN SORGHUM
		TONS	TONS	LBS	CWT
PRIMARY YIELD		6.50	25.00	600.00	60.00
PRIMARY PRICE		\$235.00	\$55.00	\$0.72	\$10.43
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$60.10	\$0.00
SECOND INCOME		\$15.00	\$0.00	\$62.40	\$10.00
GROSS RETURN		\$1,542.50	\$1,375.00	\$554.50	\$635.93
CASH OPERATING EXPENSES					
SEED	\$162.50		\$91.05	\$136.00	\$16.32
FERTILIZER	\$42.20		\$43.52	\$84.80	\$43.52
CHEMICALS				\$14.08	\$25.38
CROP INSURANCE				\$0.74	\$1.47
OTHER PURCHASED INPUTS		\$50.69			
CANAL WATER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$46.86	\$34.97	\$42.18	\$148.18	\$73.79
FUEL-IRRIGATION	\$5.05	\$18.18	\$14.14	\$12.12	\$12.12
REPAIRS	\$12.69	\$4.80	\$8.84	\$25.56	\$14.66
CUSTOM CHARGES				\$92.52	\$36.60
LAND TAXES		\$2.31	\$2.31	\$2.31	\$2.31
OTHER EXPENSES	\$0.64	\$115.00	\$114.97	\$115.87	\$115.07
TOTAL CASH EXPENSES	\$269.94	\$225.95	\$317.02	\$632.18	\$341.25
RETURN OVER CASH EXPENSES	(\$269.94)	\$1,316.55	\$1,057.98	(\$77.68)	\$294.68
FIXED EXPENSES	\$37.24	\$242.77	\$79.25	\$202.96	\$100.17
TOTAL EXPENSES	\$307.18	\$468.72	\$396.26	\$835.14	\$441.42
NET FARM INCOME	(\$307.18)	\$1,073.78	\$978.74	(\$280.64)	\$194.51
LABOR AND MANAGEMENT COSTS	\$68.70	\$175.84	\$162.44	\$169.49	\$114.84
NET OPERATING PROFIT	(\$375.88)	\$897.94	\$816.30	(\$450.13)	\$79.66
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		\$1.66	\$4.18	\$7.73	\$3.58
INTEREST ON EQUIPMENT INVESTMENT		\$17.92	\$16.61	\$68.50	\$26.75
TOTAL CAPITAL COSTS	\$0.00	\$19.58	\$20.78	\$76.22	\$30.32
RETURN TO LAND AND RISK	(\$375.88)	\$878.36	\$795.52	(\$526.35)	\$49.34

TABLE 12. Whole farm summary, Virden area, Hidalgo County,
Projected 2013.

GROSS RETURNS		
ALFALFA HAY	45.00 ACRES	
CROP		\$68,738
GRAZING		\$675
CORN SILAGE	43.00 ACRES	
CROP		\$59,125
UPLAND COTTON	68.00 ACRES	
LINT		\$29,376
SEED		\$4,243
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$4,087
GRAIN SORGHUM	34.00 ACRES	
CROP		\$21,282
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAZING		\$340
GROSS RETURN		<u>\$187,525</u>
CASH OPERATING EXPENSES		
SEED		\$16,156
FERTILIZER		\$9,750
CHEMICALS		\$1,820
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$2,281
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$16,675
FUEL-IRRIGATION		\$2,738
REPAIRS		\$3,023
CUSTOM CHARGES		\$7,536
LAND TAXES		\$439
OTHER EXPENSES		\$21,920
TOTAL CASH EXPENSES		<u>\$82,439</u>
RETURN OVER CASH EXPENSES		\$105,086
FIXED EXPENSES		\$26,460
TOTAL EXPENSES		\$108,899
NET FARM INCOME		\$78,626
LABOR AND MANAGEMENT COSTS		\$31,358
NET OPERATING PROFIT		\$47,268
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$901
INTEREST ON EQUIPMENT INVESTMENT		\$7,087
TOTAL CAPITAL COSTS		<u>\$7,989</u>
RETURN TO LAND AND RISK		<u>\$39,279</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$700 /ACRE	\$35,079	19.83%
\$900 /ACRE	\$33,879	16.98%
\$1,100 /ACRE	\$32,679	14.84%
\$1,300 /ACRE	\$31,479	13.19%
\$1,500 /ACRE	\$30,279	11.86%
\$1,700 /ACRE	\$29,079	10.78%
\$1,900 /ACRE	\$27,879	9.88%

* 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)