

# MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... VIRDEN AREA, HIDALGO COUNT' Projected 2018  
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 2018

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 2018

Item		
<b>Labor Wage Rate:</b>		
Equipment operators	\$/hour	\$8.55
General & Irrigators	\$/hour	\$7.50
<b>Purchased Inputs:</b>		
<b>Fertilizer:</b>		
Nitrogen (N)	\$/pound	\$0.31
Phosphate (P205)	\$/pound	\$0.24
<b>Seed:</b>		
Alfalfa	\$/pound	\$4.00
Upland Cotton (picker)	\$/pound	\$7.55
Corn for Silage	\$/bag	\$240.00
Grain Sorghum	\$/pound	\$1.32
Canal Water	\$/acre	\$45.00
Wire:	\$/lb.	\$1.32
<b>Energy:</b>		
Diesel fuel	\$/gallon	\$2.70
Gasoline	\$/gallon	\$2.40
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%
<b>Financial Rates:</b>		
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)	\$2.57
Personal Property Tax Rate	- NR - R	\$/1,000 (Assessed Value) \$19.07
<b>Supervision Factors</b>		
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 2018

Item			
Electricity (Domestic & Shop)		\$190.50 per month	\$2,286
Telephone		\$101.60 per month	\$1,219
Accounting & Legal			\$1,257
Misc. Supplies & Hand Tools			\$1,803
Pickup and Auto			
miles	19,050 @	\$0.500 per mile	\$9,525
<b>Insurance</b>			
- general liability (non-employee)			\$1,524
- fire/theft			\$1,168
<b>Property Taxes</b>			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$1,029
Dues, fees, publications			\$368
Farmstead Equipment			\$191
Total			\$26,381
Total per planted acre			\$138.85



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 2018

Planting dates: August 15 - October 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL				
<b>PURCHASED INPUTS</b>								
SEED	\$4.00	25 LBS	\$100.00	\$100.00				
NITROGEN (N)	\$0.31	20 LBS	\$6.20	\$6.20				
PHOSPHATE (P2O5)	\$0.24	50 LBS	\$12.00	\$12.00				
PUMP WATER*		5 AC. IN.						
CANAL WATER		15 AC. IN.		\$0.00				
SUBTOTAL			\$118.20	\$118.20				
<b>PREHARVEST OPERATIONS</b>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
PLOW	145 HP	0.67 HR		\$5.73	\$14.92	\$5.44	\$12.51	\$38.61
DISC	145 HP	0.17 HR		\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
FLOAT	145 HP	0.24 HR		\$2.05	\$5.35	\$0.96	\$2.75	\$11.11
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.58	\$0.11	\$1.49	\$2.61
LISTER	65 HP	0.18 HR		\$1.54	\$2.10	\$0.59	\$1.52	\$5.75
MULCHER	145 HP	0.15 HR		\$1.28	\$3.34	\$1.29	\$4.43	\$10.35
SEEDER	65 HP	0.05 HR		\$0.43	\$0.58	\$0.11	\$1.49	\$2.61
MULCHER	145 HP	0.15 HR		\$1.28	\$3.34	\$1.29	\$4.43	\$10.35
LISTER	65 HP	0.18 HR		\$1.54	\$2.10	\$0.59	\$1.52	\$5.75
IRRIGATE (4X)		2.00 HR		\$15.00	\$5.05	\$0.00	\$1.93	\$21.98
SUBTOTAL		4.01 HR		\$32.19	\$44.94	\$12.69	\$37.50	\$127.32
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.50 HR		\$4.30				\$4.30
EMPLOYEE BENEFITS				\$5.79				\$5.79
INSURANCE			\$0.64					\$0.64
SUPERVISION AND MANAGEMENT				\$19.90				\$19.90
SUBTOTAL		0.50 HR	\$0.64	\$29.99				\$30.63
<b>TOTAL OPERATING EXPENSES</b>		4.51 HR	\$118.84	\$62.18	\$44.94	\$12.69	\$37.50	\$276.15

\* 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 2018  
Harvest dates: June 1 - October 10

ITEM	PRICE	YIELD						TOTAL
<b>GROSS RETURNS</b>								
ALFALFA HAY	\$175.00	6.00 TONS (IN FIELD)						\$1,050.00
GRAZING	\$15.00	1.00 ACRE						\$15.00
<b>TOTAL</b>							<b>\$1,065.00</b>	
<b>PURCHASED INPUTS</b>								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
WIRE	1.32	51 LBS	\$67.87					\$67.87
ESTABLISHMENT: Principal		3 YEARS					\$92.05	\$92.05
: Interest							\$8.91	\$8.91
CANAL WATER		36 AC. IN.					\$45.00	\$45.00
PUMP WATER*		18 AC. IN.						
<b>SUBTOTAL</b>			<b>\$67.87</b>				<b>\$145.96</b>	<b>\$213.83</b>
<b>PREHARVEST OPERATIONS</b>								
	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
<b>SUBTOTAL</b>		<b>4.50 HR</b>		<b>\$33.75</b>	<b>\$18.18</b>	<b>\$0.00</b>	<b>\$6.96</b>	<b>\$58.89</b>
<b>HARVEST OPERATIONS</b>								
SWATHER (5X)	14 FT	0.80 HR		\$6.84	\$8.09	\$0.46	\$34.60	\$49.99
BALER, PTO (5X)	145 HP	1.05 HR		\$8.98	\$23.39	\$4.33	\$19.90	\$56.59
<b>SUBTOTAL</b>		<b>1.85 HR</b>		<b>\$15.82</b>	<b>\$31.47</b>	<b>\$4.80</b>	<b>\$54.50</b>	<b>\$106.58</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.46 HR		\$3.95				\$3.95
EMPLOYEE BENEFITS				\$8.92				\$8.92
INSURANCE			\$0.99					\$0.99
LAND TAXES							\$2.57	\$2.57
SUPERVISION AND MANAGEMENT				\$79.98				\$79.98
OTHER EXPENSES			\$138.85					\$138.85
<b>SUBTOTAL</b>		<b>0.46 HR</b>	<b>\$139.84</b>	<b>\$92.85</b>			<b>\$2.57</b>	<b>\$235.26</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>6.81 HR</b>	<b>\$207.71</b>	<b>\$142.42</b>	<b>\$49.66</b>	<b>\$4.80</b>	<b>\$209.99</b>	<b>\$614.57</b>
<b>NET OPERATING PROFIT</b>								<b>\$450.43</b>
INTEREST ON OPERATING CAPITAL		(	\$41.51	@	5.50%	)		\$2.28
INTEREST ON EQUIPMENT INVESTMENT								\$19.71
<b>RETURN TO LAND AND RISK</b>								<b>\$428.44</b>

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

**BUDGET SUMMARY**

GROSS RETURN		\$1,065.00	
VARIABLE OPERATING EXPENSES	\$262.16		
RETURN OVER VARIABLE EXPENSES		\$802.84	(GROSS MARGIN)
FIXED EXPENSES	\$209.99		
NET FARM INCOME		\$592.85	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$142.42		
NET OPERATING PROFIT		\$450.43	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$21.99		
RETURN TO LAND AND RISK		\$428.44	

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 2018  
 Planting dates: April 15 - May 31  
 Harvest dates: August 15 - October 15

ITEM	PRICE	YIELD					TOTAL	
<b>GROSS RETURNS</b>								
CORN SILAGE	\$32.00	25.00 TONS (STANDING)					\$800.00	
<b>TOTAL</b>							<b>\$800.00</b>	
<b>PURCHASED INPUTS</b>								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$3.00	30 000	\$90.00					\$90.00
NITROGEN (N)	\$0.31	32 LBS	\$9.92					\$9.92
PHOSPHATE (P205)	\$0.24	40 LBS	\$9.60					\$9.60
CANAL WATER		36 AC. IN.					\$45.00	\$45.00
PUMP WATER*		14 AC. IN.						
<b>SUBTOTAL</b>			<b>\$109.52</b>				<b>\$45.00</b>	<b>\$154.52</b>
<b>PREHARVEST OPERATIONS</b>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.58	\$0.11	\$1.49	\$2.61
DISC	145 HP	0.17 HR		\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
CHISEL	145 HP	0.20 HR		\$1.71	\$4.45	\$1.09	\$3.56	\$10.82
DISC	145 HP	0.17 HR		\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
FLOAT	65 HP	0.24 HR		\$2.05	\$2.80	\$0.31	\$1.06	\$6.22
LISTER	65 HP	0.18 HR		\$1.54	\$2.10	\$0.59	\$1.52	\$5.75
PRE-IRRIGATE		0.75 HR		\$5.63	\$1.77	\$0.00	\$0.68	\$8.07
MULCHER	145 HP	0.15 HR		\$1.28	\$3.34	\$1.29	\$4.43	\$10.35
PLANTER	145 HP	0.26 HR		\$2.22	\$5.79	\$1.46	\$7.56	\$17.03
CULTIVATOR (2X)	65 HP	0.42 HR		\$3.59	\$4.90	\$1.32	\$2.24	\$12.06
ROTOBUCK (3X)	145 HP	0.09 HR		\$0.77	\$2.00	\$0.36	\$1.80	\$4.93
IRRIGATE (7X)		3.50 HR		\$26.25	\$12.37	\$0.00	\$4.74	\$43.36
<b>SUBTOTAL</b>		<b>6.18 HR</b>		<b>\$48.38</b>	<b>\$47.69</b>	<b>\$8.84</b>	<b>\$34.49</b>	<b>\$139.40</b>
<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.46 HR		\$3.93				\$3.93
EMPLOYEE BENEFITS				\$8.71				\$8.71
INSURANCE			\$0.97					\$0.97
LAND TAXES							\$2.57	\$2.57
SUPERVISION AND MANAGEMENT				\$61.17				\$61.17
OTHER EXPENSES			\$138.85					\$138.85
<b>SUBTOTAL</b>		<b>0.46 HR</b>		<b>\$139.81</b>	<b>\$73.81</b>		<b>\$2.57</b>	<b>\$216.19</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>6.64 HR</b>		<b>\$249.33</b>	<b>\$122.19</b>	<b>\$47.69</b>	<b>\$88.84</b>	<b>\$510.11</b>
<b>NET OPERATING PROFIT</b>							<b>\$289.89</b>	
INTEREST ON OPERATING CAPITAL		(	\$68.89	@	5.50%	)	\$3.79	
INTEREST ON EQUIPMENT INVESTMENT							\$18.27	
<b>RETURN TO LAND AND RISK</b>							<b>\$267.83</b>	

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

**BUDGET SUMMARY**

GROSS RETURN		\$800.00	
VARIABLE OPERATING EXPENSES	\$305.86		
RETURN OVER VARIABLE EXPENSES	\$494.14	(GROSS MARGIN)	
FIXED EXPENSES	\$82.06		
NET FARM INCOME	\$412.07	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$122.19		
NET OPERATING PROFIT	\$289.89	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$22.06		
RETURN TO LAND AND RISK		\$267.83	

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 2018  
 Planting dates: April 10 - April 30  
 Harvest dates: October 15 - December 15

ITEM	PRICE	YIELD	BASE						TOTAL
<b>GROSS RETURNS</b>									
LINT	\$0.75	600.00 LBS							\$450.00
SEED	\$0.10	960.00 LBS							\$93.60
DIRECT PAYMENT	\$0.0000	600.00 LBS	0.85						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.0000	1,060.00 LBS	0.85						\$0.00
<b>TOTAL</b>									<b>\$543.60</b>
<b>PURCHASED INPUTS</b>									
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST		TOTAL
SEED	\$7.55	17 LBS	\$128.35						\$128.35
NITROGEN (N)	\$0.31	80 LBS	\$24.80						\$24.80
PHOSPHATE (P205)	\$0.24	60 LBS	\$14.40						\$14.40
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
<b>SUBTOTAL</b>			<b>\$182.37</b>				<b>\$45.00</b>		<b>\$227.37</b>
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST		TOTAL
FERTILIZE	65 HP	0.05 HR		\$0.43	\$0.58	\$0.11	\$1.49		\$2.61
DISC	145 HP	0.17 HR		\$1.45	\$3.79	\$1.15	\$2.71		\$9.10
PLOW	145 HP	0.67 HR		\$5.73	\$14.92	\$5.44	\$12.51		\$38.61
DISC & SPRAY	145 HP	0.15 HR		\$1.28	\$3.34	\$1.11	\$3.61		\$9.35
FLOAT	65 HP	0.24 HR		\$2.05	\$2.80	\$0.31	\$1.06		\$6.22
LISTER	145 HP	0.18 HR		\$1.54	\$4.01	\$1.07	\$2.79		\$9.41
PRE-IRRIGATE		0.75 HR		\$5.63	\$1.35	\$0.00	\$0.52		\$7.49
MULCHER	145 HP	0.14 HR		\$1.20	\$3.12	\$1.21	\$4.14		\$9.66
PLANTER	145 HP	0.26 HR		\$2.22	\$5.79	\$1.46	\$7.56		\$17.03
CULTIVATOR (4X)	65 HP	0.84 HR		\$7.18	\$9.80	\$2.65	\$4.48		\$24.12
HOEING (CUSTOM)			\$24.00						\$24.00
ROTOBUCK (3X)	145 HP	0.03 HR		\$0.26	\$0.67	\$0.12	\$0.60		\$1.64
IRRIGATE (8X)		4.00 HR		\$30.00	\$10.77	\$0.00	\$4.13		\$44.90
<b>SUBTOTAL</b>		<b>7.48 HR</b>	<b>\$24.00</b>	<b>\$58.97</b>	<b>\$60.94</b>	<b>\$14.64</b>	<b>\$45.59</b>		<b>\$204.14</b>
<b>HARVEST OPERATIONS</b>									
COTTON PICKER (2X)	2 ROW	1.24 HR		\$10.60	\$20.25	\$8.87	\$92.50		\$132.22
COTTON TRAILER (2X)	HALF TON	2.50 HR		\$21.38	\$37.80	\$2.02	\$20.39		\$61.58
GIN COTTON (CUSTOM)			\$68.52						\$68.52
<b>SUBTOTAL</b>		<b>3.74 HR</b>	<b>\$68.52</b>	<b>\$31.98</b>	<b>\$58.05</b>	<b>\$10.89</b>	<b>\$112.89</b>		<b>\$282.32</b>
<b>POSTHARVEST OPERATIONS</b>									
SHREDDER	65 HP	0.29 HR		\$2.48	\$3.38	\$0.43	\$3.49		\$9.79
<b>SUBTOTAL</b>		<b>0.29 HR</b>		<b>\$2.48</b>	<b>\$3.38</b>	<b>\$0.43</b>	<b>\$3.49</b>		<b>\$9.79</b>
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		1.56 HR		\$13.32					\$13.32
EMPLOYEE BENEFITS				\$16.82					\$16.82
INSURANCE			\$1.87						\$1.87
LAND TAXES							\$2.57		\$2.57
SUPERVISION AND MANAGEMENT				\$45.17					\$45.17
OTHER EXPENSES			\$138.85						\$138.85
<b>SUBTOTAL</b>		<b>1.56 HR</b>	<b>\$140.71</b>	<b>\$75.30</b>			<b>\$2.57</b>		<b>\$218.58</b>
<b>TOTAL OPERATING EXPENSES</b>		<b>13.07 HR</b>	<b>\$415.60</b>	<b>\$168.72</b>	<b>\$122.38</b>	<b>\$25.96</b>	<b>\$209.54</b>		<b>\$942.20</b>
<b>NET OPERATING PROFIT</b>									<b>(\$398.60)</b>
INTEREST ON OPERATING CAPITAL		( \$122.49 @ 5.50% )							\$6.74
INTEREST ON EQUIPMENT INVESTMENT									\$78.58
<b>RETURN TO LAND AND RISK</b>									<b>(\$483.92)</b>

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

**BUDGET SUMMARY**

GROSS RETURN		\$543.60	
VARIABLE OPERATING EXPENSES	\$563.93		
RETURN OVER VARIABLE EXPENSES		(\$20.33)	(GROSS MARGIN)
FIXED EXPENSES	\$209.54		
NET FARM INCOME		(\$229.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$168.72		
NET OPERATING PROFIT		(\$398.60)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$85.32		
RETURN TO LAND AND RISK		(\$483.92)	

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 2018  
 Planting dates: May 1 - June 15  
 Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
GRAIN SORGHUM	\$6.08	60.00 CWT		\$364.71
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
<b>TOTAL</b>				<b>\$374.71</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.32	8 LBS	\$10.56		\$10.56
NITROGEN (N)	\$0.31	32 LBS	\$9.92		\$9.92
PHOSPHATE (P205)	\$0.24	40 LBS	\$9.60		\$9.60
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
<b>SUBTOTAL</b>			<b>\$56.93</b>	<b>\$45.00</b>	<b>\$101.93</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERTILIZER	65 HP	0.15 HR		\$1.28	\$1.75	\$0.33	\$4.46	\$7.83
DISC	145 HP	0.20 HR		\$1.71	\$4.45	\$1.35	\$3.19	\$10.71
CHISEL	145 HP	0.40 HR		\$3.42	\$8.91	\$2.18	\$7.12	\$21.63
DISC	145 HP	0.20 HR		\$1.71	\$4.45	\$1.35	\$3.19	\$10.71
FLOAT	145 HP	0.25 HR		\$2.14	\$5.57	\$1.00	\$2.87	\$11.57
SPRAYER	65 HP	0.20 HR		\$1.71	\$2.33	\$0.39	\$2.25	\$6.69
LISTER	65 HP	0.50 HR		\$4.28	\$5.83	\$1.64	\$4.22	\$15.97
PRE-IRRIGATE		0.75 HR		\$5.63	\$2.02	\$0.00	\$0.77	\$8.42
MULCHER	145 HP	0.20 HR		\$1.71	\$4.45	\$1.72	\$5.91	\$13.80
PLANTER	145 HP	0.25 HR		\$2.14	\$5.57	\$1.40	\$7.27	\$16.37
SPRAYER	65 HP	0.20 HR		\$1.71	\$2.33	\$0.39	\$2.25	\$6.69
CULTIVATOR (2X)	65 HP	0.60 HR		\$5.13	\$7.00	\$1.89	\$3.20	\$17.23
ROTOBUCK (3X)	145 HP	0.25 HR		\$2.14	\$5.57	\$1.00	\$4.99	\$13.70
IRRIGATE (5X)		2.50 HR		\$18.75	\$10.10	\$0.00	\$3.87	\$32.72
<b>SUBTOTAL</b>		<b>6.65 HR</b>		<b>\$53.45</b>	<b>\$70.35</b>	<b>\$14.66</b>	<b>\$55.57</b>	<b>\$194.02</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)				\$25.20				\$25.20
HAUL (CUSTOM)				\$11.40				\$11.40
<b>SUBTOTAL</b>		<b>0.00 HR</b>		<b>\$36.60</b>				<b>\$36.60</b>

OVERHEAD EXPENSES								
DOWNTIME		0.61 HR		\$5.24				\$5.24
EMPLOYEE BENEFITS				\$9.62				\$9.62
INSURANCE				\$1.07				\$1.07
LAND TAXES							\$2.57	\$2.57
SUPERVISION AND MANAGEMENT				\$28.26				\$28.26
OTHER EXPENSES				\$138.85				\$138.85
<b>SUBTOTAL</b>		<b>0.61 HR</b>		<b>\$139.92</b>	<b>\$43.11</b>		<b>\$2.57</b>	<b>\$185.60</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>7.26 HR</b>		<b>\$233.45</b>	<b>\$96.56</b>	<b>\$70.35</b>	<b>\$14.66</b>	<b>\$103.14</b>	<b>\$518.15</b>
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<b>NET OPERATING PROFIT</b>									<b>(\$143.44)</b>
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INTEREST ON OPERATING CAPITAL	(	\$52.77	@	5.50%	)				\$2.90
INTEREST ON EQUIPMENT INVESTMENT									\$29.42

<b>RETURN TO LAND AND RISK</b>									<b>(\$175.76)</b>
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\* Pump water costs are shown under irrigation in the preharvest operation section.

**BUDGET SUMMARY**

GROSS RETURN		\$374.71			
VARIABLE OPERATING EXPENSES	\$318.46				
RETURN OVER VARIABLE EXPENSES		\$56.26	(GROSS MARGIN)		
FIXED EXPENSES	\$103.14				
NET FARM INCOME		(\$46.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)		
LABOR AND MANAGEMENT COST	\$96.56				
NET OPERATING PROFIT		(\$143.44)	(RETURN TO CAPITAL, LAND & RISK)		
CAPITAL COSTS	\$32.32				
RETURN TO LAND AND RISK		(\$175.76)			



TABLE 11. Summary of per acre costs and returns for a 200 acre farm with above average management, Virden area, Hidalgo County, Projected 2018

	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		\$175.00	\$32.00	\$0.75	\$6.08
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$15.00	\$0.00	\$93.60	\$10.00
GROSS RETURN		\$1,065.00	\$800.00	\$543.60	\$374.71
CASH OPERATING EXPENSES					
SEED	\$100.00		\$90.00	\$128.35	\$10.56
FERTILIZER	\$18.20		\$19.52	\$39.20	\$19.52
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	\$39.89	\$31.47	\$33.55	\$110.25	\$58.23
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		\$2.57	\$2.57	\$2.57	\$2.57
OTHER EXPENSES	\$0.64	\$139.84	\$139.81	\$140.71	\$139.92
TOTAL CASH EXPENSES	\$176.47	\$264.73	\$308.43	\$566.50	\$321.03
RETURN OVER CASH EXPENSES	(\$176.47)	\$800.27	\$491.57	(\$22.90)	\$53.69
FIXED EXPENSES	\$37.50	\$207.42	\$79.49	\$206.97	\$100.57
TOTAL EXPENSES	\$213.97	\$472.15	\$387.93	\$773.48	\$421.60
NET FARM INCOME	(\$213.97)	\$592.85	\$412.07	(\$229.88)	(\$46.88)
LABOR AND MANAGEMENT COSTS	\$62.18	\$142.42	\$122.19	\$168.72	\$96.56
NET OPERATING PROFIT	(\$276.15)	\$450.43	\$289.89	(\$398.60)	(\$143.44)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL		\$2.28	\$3.79	\$6.74	\$2.90
INTEREST ON EQUIPMENT INVESTMENT		\$19.71	\$18.27	\$78.58	\$29.42
TOTAL CAPITAL COSTS	\$0.00	\$21.99	\$22.06	\$85.32	\$32.32
RETURN TO LAND AND RISK	(\$276.15)	\$428.44	\$267.83	(\$483.92)	(\$175.76)

TABLE 12. Whole farm summary, Virden area, Hidalgo County,  
Projected 2018

GROSS RETURNS		
ALFALFA HAY	45.00 ACRES	
CROP		\$47,250
GRAZING		\$675
CORN SILAGE	43.00 ACRES	
CROP		\$34,400
UPLAND COTTON	68.00 ACRES	
LINT		\$30,600
SEED		\$6,365
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	34.00 ACRES	
CROP		\$12,400
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAZING		\$340
GROSS RETURN		<u>\$131,690</u>
CASH OPERATING EXPENSES		
SEED		\$14,457
FERTILIZER		\$4,442
CHEMICALS		\$1,820
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$3,054
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$12,934
FUEL-IRRIGATION		\$2,738
REPAIRS		\$3,050
CUSTOM CHARGES		\$7,536
LAND TAXES		\$488
OTHER EXPENSES		\$26,640
TOTAL CASH EXPENSES		<u>\$77,260</u>
RETURN OVER CASH EXPENSES		\$54,430
FIXED EXPENSES		\$26,666
TOTAL EXPENSES		\$103,925
NET FARM INCOME		\$27,765
LABOR AND MANAGEMENT COSTS		\$27,352
NET OPERATING PROFIT		\$413
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$822
INTEREST ON EQUIPMENT INVESTMENT		\$8,016
TOTAL CAPITAL COSTS		<u>\$8,839</u>
RETURN TO LAND AND RISK		<u>(\$8,426)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$700 /ACRE	(\$12,626)	0.16%
\$900 /ACRE	(\$13,826)	0.14%
\$1,100 /ACRE	(\$15,026)	0.12%
\$1,300 /ACRE	(\$16,226)	0.11%
\$1,500 /ACRE	(\$17,426)	0.10%
\$1,700 /ACRE	(\$18,626)	0.09%
\$1,900 /ACRE	(\$19,826)	0.08%

\* 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)