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, HID. VIRDEN AREA, HIDALGO COUNTY FARM SIZE.....IRRIGATION TYPE..... 200 ACRES FLOOD

		WATER	USE
ACREAGE SUMMARY:	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 I	RIGHTS		3.52

^{*} DOUBLE-CROPPED

TABLE 2. Basic cost information for the Virden area, Hidalgo County, Projected 2018

Projected 2016				
Item				
Labor Wage Rate:				
Equipment operators		\$/hour		\$8.55
General & Irrigators		\$/hour		\$7.50
Purchased Inputs: Fertilizer:				
Nitrogen (N)		\$/pound		\$0.31
Phosphate (P205)		\$/pound		\$0.24
Seed:				
Alfalfa		\$/pound		\$4.00
Upland Cotton (pick	er)	\$/pound		\$7.55
Corn for Silage		\$/bag		\$240.00
Grain Sorghum		\$/pound		\$1.32
Canal Water		\$/acre		\$45.00
Wire:		\$/lb.		\$1.32
Energy:				
Diesel fuel		\$/gallon		\$2.70
Gasoline		\$/gallon		\$2.40
Electricity		cents/KwHr	•	8.45
LP Gas		\$/gallon		\$2.85
Employee Liability Insurance		\$/\$1000 wa	iges	\$20.00
Employee Benefits		percent/wa	ges	18.00%
Labor Downtime		percent		25.00%
Financial Rates:				
Operating Capital Interest Rate	9	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 v	alue)	\$2.57
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$22.15
Communication France	- R		Value)	\$19.07
Supervision Factors		Ф/I= b = - b =	_	£4.00
Field Crop-Irrigation Field Crop-Equipment		\$/labor hou \$/labor hou		\$1.00 \$0.50
r ioid Orop-Equipment		ψπαυσι που		φυ.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
Insurance					
- general liability (non-	-employee)				\$1,524
- fire/theft					\$1,168
Property Taxes					
 non-planted land 					\$0
- other than land & ma	achinery				\$6,010
Building repairs and ma	aintenance				\$1,029
Dues, fees, publication	S				\$368
Farmstead Equipment					\$191
				Total	\$26,381
			Total per planted acre		\$138.85

TABLE 4 Pumping costs and data for into	psion wells. Vinden area. His	skigo County												
NEUT DATA.	DEPTHONE	ACTERISTICS: STATIC	- 60											
GALLONS PER MINUTE (SPM) WORK HORSEPOWER	1,600 28	DRAW DOWN. TOTAL HEAD CASING												
EFFICIENCY FACTOR: ELECTROITY LP GAS DIESEL	0.560 0.156 0.160													
RUEL COST PER UNIT: ELECTRICITY LP GAS DESEL	8.45 CENTSNU- \$2.85 \$IGAL \$2.70 \$IGAL	*												
RJEL PLMPING COSTS: SLECTRIC WELL: COST PER HOUR COST PER ACRE INCH	\$3.35 \$1.01													
LP GAS WELL: COST PER HOUR COST PER ACRE INCH	\$14.59 \$4.40													
DESEL WELL: COST PER HOUR COST PER ACRE INCH	\$8.64 \$2.61			_										
TABLE 5. Equipment summary for a 200 Projected 2018 SOUPHENT ITEM & SCE	acre food irrigated farm wit	TOTAL DISC ON	Nent, Virden area, Hi	stigo County.	EDMD .		FMED CO	GTS TOTAL						
	ANNUAL HOURS OF NAMEER				EPAR ER HR		TION THE							
TRACTOR	1907.88 1 1970.89 1 1970.8	4,950.00 2.308 23.99 85 6.214 97.900.00 2.308 9.403.00 1.376 3.800.00 1.600.00 1.200.00 1.200.00 450.00 1.200.0	.44 25597 74 12599 74 12599 91 60306 82 2598 729 6037 137.79 654 658 12581 8408 22100 394 815 1119	11.67 22.27 15.12 16.33 10.11	1.29 2.97 7 15 0.15 0.15 0.15 1.60 0.15 1.60 0.01 0.04 4.65 0.04 4.15 0.05 0.06 0.06 0.06 0.06 0.06 0.06 0.0	26 38 59	098.12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78-64 3.13 (1982) (1982						
PLANTER 4 ROW CHEEL 7 PT DEC 12 FT CULTUKTOR 4 ROW PLOKE 10 FT	27:36 1 22:20 1 55:08 1 96:58 1 28:76 1	3,400.00 1,200.00 2,250.00 1,500.00 450.00	60.97 23.03 153.67 177.78 0.54		1.69 1.69 2.79 1.86 0.01	0 1 2 2	80.00 60.00 60.00 60.00 46.67	M4 22 50 20 80 20 51 20 80 20 51 20 80 20 51 20 80 20 51 20 80 20 51 20 80 20 51 20 80 20 80 20 80 20 80 20 80 20 80 20 80 20 80 20 80 80 80 80 80 80 80 80 80 80 80 80 80						
ROTOBLOK MALCHER 13 FT LISTER 4 ROW RLOW 314 N SHREDDER 2 ROW	1441 1 27:27 1 42:38 1 5541 1 1872 1	1,000,00 3,750,00 1,600,00 3,350,00 1,250,00	058 12691 8408 23100 3.94		0.04 4.65 1.98 4.15 0.20	10 50 2 6 11	99.99 80.00 : H3.39 H6.67 :	7.38 977 27.69 19.35 11.81 5.31 26.73 8.48 9.23 8.92						
COTTONTRALER 8 BALE FERTILIZERSEEDER SPRAYER 12 FT BLECTRIC WELL	170.00 3 12.15 1 23.80 1 817.94 1	3,600.00 2,200.00 1,375.00 12,000.00 2,758 111,822 15.0		3.36	0.05 0.92 0.66			26 58 227 16 98 26 64 10.15 8.13 88.60 1.28						
SHOWN AT ONE-HALF COST TO REFLE		YTWO NEWBUALS	NS 3,000			1	9,488	1,017						
EW	NEW USED VALUE VALUE	VEARS EQUIPE CO		FUEL UNITHE	LUBE ACCL	м э	NESS AGE EXPE	REST ENGE	ALFALFA EST	ALFALFA HAY	CORN SLAGE	UPLAND COTTON S	GRAN DRGHUM	TOTAL
TEM TRACTOR 65 HP TRACTOR 25 HP TRACTOR 125 HP TRACTOR 125 HP TRACTOR 125 TON CONTROL 125 TON	21565 4850 66185 23917 28000 19000 89600 9430	40 25 10 15	1 800 1 800 2 800 5 300	4.42 7.50 6.00 5.04 3.12	0 10 4154- 0.10 5103: 0.05 2210: 0.20 1011: 0.20 504:	2 6 0	21 Si 18 1,6 13 1,0 12 2.6	82 04 00.09 H5.00 58 50	0.46 1.55 0.00 0.00	-nours per ac 0 00 1 05 0 00 0 00	0.89 1.04 0.00 0.00	1.62 1.60 2.50 1.24	165 135 000 000	4 42 6.99 2.50 1.24
WATER 15 FT 55 FT	7700 1600 6800 3400 2400 1200 4500 2250	20 20 10 15 15	2 500 8 100 3 200 3 200	112	850 850 851 861	0 8 0 9	16 2 13 1 16 1 16 1	97.00 111.75 87.00 66.00 29.75	0.00 0.00 0.00 0.00	1.05 0.00 0.00 0.00	0.00 0.20 0.20 0.34	0.00 0.26 0.00 0.32 0.94	0.00 0.25 0.40 0.40	1.05 0.77 0.60 1.60
TEM TRACTOR 65 MP TRACTOR 50 MP TRACTOR 50 MP TRACTOR 70 M	700 450 2000 1000 7000 2750 2000 1600 6000	15 15 15 15	4 200 4 200 3 200 3 200 3 200		581: 2001 4091 6781	0 4 6 4	15 16 1 16 2 16 1	19.25 55.00 06.25 88.00 54.25	0.36 0.00 0.30 0.36	000 000 000	0.24 0.09 0.15 0.19	024 009 014 018	0.25 0.25 0.25 0.20 0.50	0.97 0.97 0.97 0.79 1.22
NOW 3-14 N HAREDGER 2 ROW JOTTONTRALER 8 BALE FERTLEER/SEEDER IPRAYER 12 FT LECTRIC WELL	21545 4860 64785 29877 3000 1000 8000 5000 8000 6430 7700 1460 3000 1500 300 1500	60 22 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12	1 800 1 800 2 800 5 300 2 800 2 800 2 800 3 300 3 300 3 300 3 300 3 300 3 300 3 100 3 100 3 100 3 100 3 100 3 100 3 100 3 100 3 100 3 100 6 100		0 10 4154 0.10 5102 0.05 2293 0.05 2511 0.20 554 855 865 865 205 881 220 409 678 881 220 409 478 881 220 478 881 478 881 478 478 478 478 478 478 478 478 478 478	0 0 5 0	21 S 1,8 1,8 1 1,8 1 1,8 1 1,8 1 1,8 1 1,8 1 1,8 1 1,9	201 04 02 03 05 05 05 05 05 05 05 05 05 05 05 05 05	0 46 1.55 0.00 0 00 0.00 0.00 0.00 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.26 0.00 0.00	000 105 000 000 000 000 000 000 000 000	0 89 1.04 000 000 000 000 000 000 000 000 000	1 42 1 46 2 50 1 124 0 00 0 26 0 00 0 22 0 8 0 02 0 14 0 18 0 67 0 25 0 00 0 00 0 00 0 00 0 00 0 00 0 00	165 1.75 0.00 0.00 0.00 0.00 0.25 0.40 0.25 0.20 0.20 0.20 0.20 0.20 0.20 0.2	4 42 6.99 2.50 1.24 0.80 1.06 0.77 0.80 1.80 0.97 0.37 0.37 0.39 1.22 1.34 0.29 2.50 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0
SHOWN AT ONE-HALF COST TO REFLE			. 200		rzowiki				1.45	lies	***	and	han	40
INTEREST PROPATION														
ALFALFA CORN UPLAND HW SLAGE COTTON 														
0.00 0.00 15.37 0.00 0.00 26.55 0.00 0.00 0.00 0.00 0.00 0.00 0.00	000 000 000 000 125													
0.00 0.59 0.00 0.76 0.76 0.72 0.00 0.36 0.79 0.12 0.12 0.12	119 090 052 012 095													
Shifting par 2004-11 1 1 2 2 2 4 1 2 2 2 2 2 2 2 2 2	4.65 11.22 0.00 0.00 0.00 0.00 0.00 0.00 0.0													
100 030 032 106 052 052 0.00 030 0.46 132 3.41 2.82 19.71 18.27 78.58	156 127 292													
	ACRES: 15	PUMP WATER:	5.00											
MICHAE UN	WER TIMES IT OVER	RATE TOTAL	сиятом											
DBC 148 PLOW 168 DBC 146 PLOW 168 DBC 146 PLOW 168 PLOW 168 ENTER 66 BELCHER 168 BELCHER 66 BELCHER 66 BELCHER 66	inp 1.00 inp	0.17 0.17 0.57 0.67 0.67 0.67 0.67 0.67 0.67 0.66 0.66												
DISC 148 PLOW 148 DISC 148 FLOAT 148 FLOAT 148 FLOAT 148 FLOAT 66 LETTER 66 SECOND 66 SECOND 66 FREATHER 66 SECOND 66 FREATHER 66	HP 1.00 HP 1.00 HP 1.00	0.05 0.05 0.15 0.15 0.18 0.18 0.30 1.51												
	ACRES: 45 WER TIMES IT OVER	PUMP WATER: COOMPLISHMENT RATE TOTAL 030 548	1800 CLISTOM											
RRIGATE (IO)	9.00	030 5-63												
SWATH ER (SX) 14 BALER, PTO (SX) 140	FT 500 14P 5.00	016 080 021 1.05												
ORN SLAGE	ACRES: 43	PUMP WATER:	14.00											
		DOOMPLISHMENT RATE TOTAL	сиятом											
FERTILIZE 65 DSC 148 DSC 148 DSC 148 FLOXT 65	WER TMES	0.05 0.05 0.17 0.17 0.20 0.20 0.17 0.17 0.24 0.26												
DSC 148 FLOAT 66 LETTER 66 PSC-PSCATE MALCHER 148 PLANTER 149 CULTINATOR (30) 66 RROGATE (70)	HP 100 HP 100 100 HP 100 HP 100 HP 200 HP 200 700	026 026 0.18 0.18 0.05 0.53 0.15 0.15 0.26 0.26 0.21 0.42 0.03 0.09 0.26 3.70												
ROTORUCK (IN) 140 IRRIGATE (74)	HP 300 7.00	023 029 026 270												
		PUMP WATER:	12:00											
PO INC. PO	IT OVER	RATE TOTAL	сиятом											
SHICKNES UN SHICKNES UN	HP 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00 HP 1.00	0.05 0.05 0.17 0.17 0.67 0.55 0.15 0.15 0.24 0.24 0.18 0.19 0.03 0.40 0.54 0.54 0.26 0.26												
MALCHEIX 148 PLANTER 148 CULTIVATOR (49) 65 HOSING (CUSTOM) ROTORICK (30) 146	1.00 (HP 1.00 (HP 1.00 (HP 4.00 (HP 4.00	0.14 0.14 0.26 0.26 0.21 0.84 0.03 0.03 0.27 3.22	2400											
	8.00	0.27 3.22												
COTTON PICKER (20) 2 R COTTON TRALER (20) HA GIN COTTON (CLISTOM) PER LINT #	OW 2.00 LFTON 2.00	0.62 1.24 1.25 2.50	011											
SHREDDER 66	HP 100	029 029												
	ACRES: 34 WER TIMES -	PUMP WATER: COOMPLISHBENT RATE TOTAL	12:00 CLISTOM											
FERTILIZER 65 DSC 140 DSGC 140 DSGC 140	ACRES: 34 WKER TBMES	0.15 0.15 0.20 0.20 0.40 0.40 0.20 0.20												
FLOAT 146 FLOAT 146 SPRANER 65 FREERREATE HISTORY HISTORY HISTORY HISTORY	1.00 HP 1.00 HP 1.00 HP 1.00 1.00	0.26 0.26 0.26 0.26 0.20 0.20 0.50 0.50 0.80 0.80												
SACSHOE	HP 1.00	0.15 0.15 0.15 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2												
	5.00	10												
COMBINE (CUSTOM) PER CWT HALL (CUSTOM) PER CWT			0.42 0.19											
	NUAL REPAIR COSTS AS				_									
9 0 000000 0 000000 1 50 0,00000 0 0,00000 0	3 4	5 6 	7 0 000000 0 000 0 000000 0 000	8 040 0000 040 0000	9 200 200									
100 0.000000 0.000020 200 0.000000 0.000000 300 0.000000 0.000000 400 0.000000 0.000000 500 0.000000 0.000000	0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	0.000140 0.000220 0.000180 0.000360 0.000290 0.000310 0.000280 0.000340 0.000280 0.000270	0.000100 0.000 0.000110 0.000 0.000160 0.000 0.000150 0.000 0.000170 0.000	1980 0.0000 610 0.0000 630 0.0000 710 0.0000 800 0.0000	800 800 800 850 850									
600 0.000000 0.000000 700 0.000000 0.000100 800 0.000000 0.000110 800 0.000000 0.000120 900 0.000000 0.000120	0.000960 0.000120 0.000360 0.000130 0.000320 0.000160 0.000320 0.000160 0.000320 0.000160	0.000390 0.000380 0.000300 0.000450 0.000300 0.000450 0.000370 0.000450 0.000380 0.000450	0.000060 0.000 0.000060 0.000 0.000710 0.000 0.000710 0.000 0.000710 0.000 0.000710 0.000 0.000710 0.000 0.000710 0.000 0.000710 0.000 0.000200 0.000 0.000200 0.000 0.000200 0.000 0.000200 0.000 0.000200 0.000 0.000200 0.000 0.000000 0.000	040 00000 00000 0000 0000 0000 0000 00	530 560 590 500 500									
0 0000000 0 0000000 50 0000000 0 0000000 50 0000000 0 0000000 100 0000000000	0.0006820			135 0 000 260 0 000 260 0 000 235 0 000	710 NG NG NG NG									
2000 0.000100 0.000265 0 2000 0.000006 2000 0.000000 2000 0.000000	0.00000 0.00006	0.000005	0.000310											
9 0 0000000 0 00000000 0 0000000 0 0 0000														
4800 0.000162 7000 0.000176 7500 0.000188 8000 0.000256					_									
Based on unpublication Based on "Agricu														
En	Itural Machinery Data" in Ag pineers Vesibook, 1983.			_										
1 tractors 2 baller, combines 3 rotary hoe, disks, now cultivators la 4 harrows, wagons	forage harvesters, window moldboard plows, chilele, or plane floats, roto buck, drag, roli	sers, pickups field cultivators or, water furrow,												
bed shaper														

2 many law, dalas, modificant grains, chande field collinders no collinates later plane 4 harves, seep collinates 4 harves, wagons, ficate, not back, dag, celer, water know, best shaped 5 listingues of the collinates of the collinates of the 5 listingues of the collinates of the co

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
PURCHASED INPUTS								
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. 15 AC. IN.						# 0.00
CANAL WATER		15 AC. IN.						\$0.00
SUBTOTAL			\$118.20				=	\$118.20
	POWER	ACCOMPLISHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
TRETIARVEOT OF ERRATIONS	Otti	IXIL	1111 010	ENBOIL	LODE	ILLI AIILO	0001	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
OVERHEAD EXPENSES								
DOWNTIME		0.50 HR		\$4.30				\$4.30
EMPLOYEE BENEFITS		3.33 . 114		\$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
TOTAL OPERATING EXPENSES		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

Harvest dates: June 1 - Octobe	er 10							
ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS ALFALFA HAY GRAZING	\$175.00 \$15.00	6.00 TONS 1.00 ACRE	(IN FIELD)					\$1,050.00 \$15.00
TOTAL								\$1,065.00
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
WIRE ESTABLISHMENT: Principal : Interest CANAL WATER PUMP WATER*	1.32	51 LBS 3 YEAR: 36 AC. IN 18 AC. IN					\$92.05 \$8.91 \$45.00	\$67.87 \$92.05 \$8.91 \$45.00
SUBTOTAL			\$67.87				\$145.96	\$213.83
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	F 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) BALER, PTO (5X)	14 FT 145 HP	0.80 HR 1.05 HR		\$6.84 \$8.98	\$8.09 \$23.39	\$0.46 \$4.33	\$34.60 \$19.90	\$49.99 \$56.59
SUBTOTAL		1.85 HR		\$15.82	\$31.47	\$4.80	\$54.50	\$106.58
OVERHEAD EXPENSES								
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES		0.46 HR	\$0.99 \$138.85	\$3.95 \$8.92 \$79.98			\$2.57	\$3.95 \$8.92 \$0.99 \$2.57 \$79.98 \$138.85
SUBTOTAL		0.46 HR	\$139.84	\$92.85			\$2.57	\$235.26
		6.81 HR		\$142.42	£40.00	£4.00	\$209.99	
TOTAL OPERATING EXPENSES		0.01 FIX	\$207.71	Φ142.42	\$49.66	\$4.80	\$209.99	\$614.57
NET OPERATING PROFIT INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	ıτ	(\$41.51 @	5.50%)				\$450.43 \$2.28 \$19.71
RETURN TO LAND AND RISK								\$428.44
* Pump water costs are shown under irrigat		est operation section. IDGET SUMMARY						
GROSS RETURN		\$1,065.00						

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

Harvest dates: August 15 -				_						
ITEM	PRICE		YIEL	_D						TOTAL
GROSS RETURNS CORN SILAGE	\$32.00		25.00	TONS (S	TANDING)					\$800.00
TOTAL									-	\$800.00
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUAN	TITY	INPUTS				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			LBS	\$9.60					\$9.60
CANAL WATER				AC. IN.					\$45.00	\$45.00
PUMP WATER*			14	AC. IN.						
SUBTOTAL					\$109.52				\$45.00	\$154.52
	POWER		ACCOMPLI	SHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
FERTILIZE	65 HP		0.05	HR		\$0.43	\$0.58	\$0.11	\$1.49	\$2.61
DISC	145 HP		0.17			\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
CHISEL	145 HP		0.20			\$1.71	\$4.45	\$1.09	\$3.56	\$10.82
DISC	145 HP		0.17			\$1.45	\$3.79	\$1.15	\$2.71	\$9.10
FLOAT	65 HP		0.24			\$2.05	\$2.80	\$0.31	\$1.06	\$6.22
LISTER PRE-IRRIGATE	65 HP		0.18 0.75			\$1.54 \$5.63	\$2.10 \$1.77	\$0.59 \$0.00	\$1.52 \$0.68	\$5.75 \$8.07
MULCHER	145 HP		0.75			\$1.28	\$3.34	\$1.29	\$4.43	\$10.35
PLANTER	145 HP		0.26			\$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			\$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
SUBTOTAL		=	6.18	HR		\$48.38	\$47.69	\$8.84	\$34.49	\$139.40
OVERHEAD EXPENSES										
DOWNTIME			0.46	HR		\$3.93				\$3.93
EMPLOYEE BENEFITS						\$8.71				\$8.71
INSURANCE					\$0.97					\$0.97
LAND TAXES						\$61.17			\$2.57	\$2.57 \$61.17
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$138.85	ф01.17				\$138.85
		_								
SUBTOTAL		_	0.46		\$139.81	\$73.81			\$2.57	\$216.19
TOTAL OPERATING EXPENSES			6.64	HR	\$249.33	\$122.19	\$47.69	\$8.84	\$82.06	\$510.11
NET OPERATING PROFIT										\$289.89
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM		(\$68.89	@	5.50%)				\$3.79 \$18.27
RETURN TO LAND AND RISK										\$267.83
* Pump water costs are shown under irr	igation in the preha	arvest operati BUDGET S								
GROSS RETURN			\$800.00							
VARIABLE OPERATING EXPENSES		\$305.86								
RETURN OVER VARIABLE EXPENSES		000.00	\$494.14	(GROS	S MARGIN)					

	BUDGET S	UMMARY	
GROSS RETURN		\$800.00	
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES	\$305.86	\$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	r 15 - December 15 PRICE		YIEL	.D	BASE					TOTA
GROSS RETURNS	*									
LINT SEED	\$0.75 \$0.10		600.00 960.00							\$450.00 \$93.60
DIRECT PAYMENT COUNTER CYCLICAL PAYMENT	\$0.0000 \$0.0000		600.00 1,060.00		0.85 0.85					\$0.0 \$0.0
TOTAL	ψ0.0000		1,000.00	LDO	0.00				-	\$543.60
101/12										ψο 10.0.
PURCHASED INPUTS	PRICE		QUAN	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTA
SEED	\$7.55		17	LBS	\$128.35					\$128.3
NITROGEN (N)	\$0.31			LBS	\$24.80					\$24.8
PHOSPHATE (P205) HERBICIDE	\$0.24 \$14.08			LBS ACRE	\$14.40 \$14.08					\$14.4 \$14.0
CANAL WATER	Ų1.1.00		24	AC. IN.	\$0.00				\$45.00	\$45.0
PUMP WATER* CROP INSURANCE	\$0.74		12	AC. IN.	CO 74					60.7
SUBTOTAL	φ0.74				\$0.74 \$182.37				\$45.00	\$0.7 \$227.3
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI:		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTA
					1141 010					
FERTILIZE DISC	65 HP 145 HP		0.05 0.17			\$0.43 \$1.45	\$0.58 \$3.79	\$0.11 \$1.15	\$1.49 \$2.71	\$2.6° \$9.10
PLOW	145 HP		0.67	HR		\$5.73	\$14.92	\$5.44	\$12.51	\$38.6
DISC & SPRAY FLOAT	145 HP 65 HP		0.15 0.24			\$1.28 \$2.05	\$3.34 \$2.80	\$1.11 \$0.31	\$3.61 \$1.06	\$9.3 \$6.2
LISTER	145 HP		0.24			\$2.03 \$1.54	\$4.01	\$1.07	\$2.79	\$0.2 \$9.4
PRE-IRRIGATE			0.75	HR		\$5.63	\$1.35	\$0.00	\$0.52	\$7.4
MULCHER PLANTER	145 HP 145 HP		0.14 0.26			\$1.20 \$2.22	\$3.12 \$5.79	\$1.21 \$1.46	\$4.14 \$7.56	\$9.6 \$17.0
CULTIVATOR (4X)	65 HP		0.20			\$7.18	\$9.80	\$2.65	\$4.48	\$24.1
HOEING (CUSTOM)					\$24.00					\$24.0
ROTOBUCK (3X) IRRIGATE (8X)	145 HP		0.03 4.00			\$0.26 \$30.00	\$0.67 \$10.77	\$0.12 \$0.00	\$0.60 \$4.13	\$1.6 \$44.9
SUBTOTAL			7.48	HR	\$24.00	\$58.97	\$60.94	\$14.64	\$45.59	\$204.1
HARVEST OPERATIONS										
COTTON PICKER (2X)	2 ROW		1.24	HR		\$10.60	\$20.25	\$8.87	\$92.50	\$132.2
COTTON TRAILER (2X) GIN COTTON (CUSTOM)	HALF TON		2.50	HR	\$68.52	\$21.38	\$37.80	\$2.02	\$20.39	\$81.5 \$68.5
SUBTOTAL			3.74	HR	\$68.52	\$31.98	\$58.05	\$10.89	\$112.89	\$282.3
POSTHARVEST OPERATIONS										
SHREDDER	65 HP		0.29	HR		\$2.48	\$3.38	\$0.43	\$3.49	\$9.7
SUBTOTAL			0.29	HR		\$2.48	\$3.38	\$0.43	\$3.49	\$9.7
OVERHEAD EXPENSES										
DOWNTIME SMBI OVER DEVICE ITO			1.56	HR		\$13.32				\$13.3
EMPLOYEE BENEFITS INSURANCE					\$1.87	\$16.82				\$16.8 \$1.8
LAND TAXES					****				\$2.57	\$2.5
SUPERVISION AND MANAGEMENT OTHER EXPENSES	Т				\$138.85	\$45.17				\$45.1 \$138.8
SUBTOTAL			1.56	Пр	\$140.71	\$75.30			\$2.57	\$218.5
OTAL OPERATING EXPENSES			13.07		\$415.60	\$168.72	\$122.38	\$25.96	\$209.54	\$942.2
IET OPERATING PROFIT										(\$398.6
INTEREST ON OPERATING CAPIT		(\$122.49	@	5.50%)				\$6.7
INTEREST ON EQUIPMENT INVES	IMENI									\$78.5
* Pump water costs are shown under	r irrigation in the arch-	most or are "	ion soation							(\$483.9
* Pump water costs are shown under	r irrigation in the prena		SUMMARY							
GROSS RETURN			\$543.60							
VARIABLE OPERATING EXPENSES		\$563.93	(\$00.00)	(CDC)	SS MARCINI					
RETURN OVER VARIABLE EXPENSE FIXED EXPENSES		\$209.54	(\$20.33)	(GRU	SS MARGIN)					
NET FARM INCOME			(\$229.88)	(RETU	JRN TO CAPITAL	, LABOR, LAI	ND & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$168.72	(\$398.60)	(RFTI	JRN TO CAPITAL	LAND & RIS	SK)			
CAPITAL COSTS		\$85.32	(\$555.50)	,	3 3/11 TIAL	, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,			
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

3	- ,			
Harvesting dates:	Octo	her	15.	November 15

Harvesting dates: October 1										
ITEM	PRICE		YIELD		BASE					TOTAL
GROSS RETURNS										
GRAIN SORGHUM	\$6.08			CWT						\$364.71
DIRECT PAYMENT	\$0.00			CWT	0.85					\$0.00
COUNTER CYCLICAL PAYMENT GRAZING	\$0.00 \$10.00			CWT ACRE						\$0.00 \$10.00
GIVAZIIVO	ψ10.00		1.00	AONL						Ψ10.00
TOTAL									•	\$374.71
PURCHASED INPUTS	PRICE		QUANTIT	ГΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$1.32			LBS	\$10.56					\$10.56
NITROGEN (N) PHOSPHATE (P205)	\$0.31 \$0.24			LBS LBS	\$9.92 \$9.60					\$9.92 \$9.60
HERBICIDE	\$14.08			ACRE	\$14.08					\$14.08
INSECTICIDE	\$11.30			ACRE	\$11.30					\$11.30
CANAL WATER				AC. IN					\$45.00	\$45.00
PUMP WATER* CROP INSURANCE	\$1.47		12	AC. IN						¢4 47
SUBTOTAL	\$1.47				\$1.47 \$56.93				\$45.00	\$1.47 \$101.93
	POWER		ACCOMPLISH	HMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RATE		INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
FERTILIZER	65 HP		0.15	HR		\$1.28	\$1.75	\$0.33	\$4.46	\$7.83
DISC	145 HP		0.20			\$1.71	\$4.45	\$1.35	\$3.19	\$10.71
CHISEL	145 HP		0.40			\$3.42	\$8.91	\$2.18	\$7.12	\$21.63
DISC FLOAT	145 HP 145 HP		0.20 0.25			\$1.71 \$2.14	\$4.45 \$5.57	\$1.35 \$1.00	\$3.19 \$2.87	\$10.71 \$11.57
SPRAYER	65 HP		0.20			\$1.71	\$2.33	\$0.39	\$2.25	\$6.69
LISTER	65 HP		0.50			\$4.28	\$5.83	\$1.64	\$4.22	\$15.97
PRE-IRRIGATE			0.75			\$5.63	\$2.02	\$0.00	\$0.77	\$8.42
MULCHER	145 HP		0.20			\$1.71	\$4.45	\$1.72	\$5.91	\$13.80
PLANTER SPRAYER	145 HP 65 HP		0.25 0.20			\$2.14 \$1.71	\$5.57 \$2.33	\$1.40 \$0.39	\$7.27 \$2.25	\$16.37 \$6.69
CULTIVATOR (2X)	65 HP		0.60			\$5.13	\$7.00	\$1.89	\$3.20	\$17.23
ROTOBUCK (3X)	145 HP		0.25			\$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
SUBTOTAL			6.65	HR		\$53.45	\$70.35	\$14.66	\$55.57	\$194.02
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 SUPERVISION AND MANAGEMENT						\$28.26			\$2.57	\$2.57 \$28.26
OTHER EXPENSES					\$138.85	φ20.20				\$138.85
SUBTOTAL			0.61	HR	\$139.92	\$43.11			\$2.57	\$185.60
TOTAL OPERATING EXPENSES			7.26	HR	\$233.45	\$96.56	\$70.35	\$14.66	\$103.14	\$518.15
NET OPERATING PROFIT										(\$143.44)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTME	ENT	(\$52.77	@	5.50%)				\$2.90 \$29.42
RETURN TO LAND AND RISK	-141									(\$175.76)
										(ψ170.70)
* Pump water costs are shown under irrig	ation in the preharve		section. SUMMARY							
GROSS RETURN			\$374.71							
VARIABLE OPERATING EXPENSES		\$318.46	ψο							
RETURN OVER VARIABLE EXPENSES			\$56.26	(GR	OSS MARGIN)					
FIXED EXPENSES		\$103.14	/# 40 OC	/DE-	TUDN TO CARE	I 14DCD :	VVID o DIO:			
NET FARM INCOME LABOR AND MANAGEMENT COST		\$96.56	(\$46.88)	(RET	TURN TO CAPITA	L, LABOR, L	AND & RISK)		
NET OPERATING PROFIT		ψου.υυ	(\$143.44)	(RET	TURN TO CAPITA	L, LAND & R	ISK)			
			,,,	,			,			
CAPITAL COSTS RETURN TO LAND AND RISK		\$32.32								

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

PRIMARY YIELD	ALFALFA ESTABLISHMENT	ALFALFA HAY	CORN SILAGE	PICKER COTTON	GRAIN SORGHUM
	ESTABLISHMENT	HAY	SILAGE	COTTON	SUBCHIM
				0011014	30KGI IUW
		TONS	TONS	LBS	CWT
		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	ψ·2.00	ψσσ	ψο.σ.	\$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 OFERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		\$2.20 \$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

Projected 20	18		
GROSS RETURNS	45.00 ACRES		
ALFALFA HAY CROP	45.00 ACRES	\$47,250	
GRAZING	42.00 ACDEC	\$675	
CORN SILAGE CROP	43.00 ACRES	\$34,400	
UPLAND COTTON	68.00 ACRES	#00.000	
LINT SEED		\$30,600 \$6,365	
DIRECT PAYMENT		\$0	
COUNTER CYCLICAL P GRAIN SORGHUM	PAYMENT 34.00 ACRES	\$0	
CROP	04.00 NONEO	\$12,400	
DIRECT PAYMENT	AAA/AAFAIT	\$0	
COUNTER CYCLICAL P GRAZING	AYMENI	\$0 \$340	
GROSS RETURN			\$131,690
			Ψ101,000
CASH OPERATING EXPE SEED	NSES	\$14,457	
FERTILIZER		\$4,442	
CHEMICALS		\$1,820	
CROP INSURANCE OTHER PURCHASED	INDLITS	\$100 \$3,054	
CANAL WATER	1141 013	\$3,034 \$0	
FUEL, OIL & LUBRICA	NTS-EQUIPMENT	\$12,934	
FUEL-IRRIGATION REPAIRS		\$2,738 \$3,050	
CUSTOM CHARGES		\$7,536	
LAND TAXES		\$488	
OTHER EXPENSES		\$26,640	
TOTAL CASE	H EXPENSES	\$77,	260
RETURN OVER CASH EX	(PENSES		\$54,430
FIXED EXPENSES		\$26,666	
TOTAL EXPE	ENSES	\$103,	925
NET FARM INCOME			\$27,765
LABOR AND MANAGEME	NT COSTS	\$27,352	
NET OPERATING PROFI	Г		\$413
CAPITAL COSTS INTEREST ON OPERA INTEREST ON EQUIP		\$822 \$8,016	
TOTAL CAPI		· · · · · · · · · · · · · · · · · · ·	839
		ψ0,	
RETURN TO LAND AND F	RISK		(\$8,426)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	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%

 $^{^{\}star}$ 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)