## MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... BLACKWATER DRAW AREA, ROOSEVELT COUN

FARM SIZE...... 960.00 ACRES

IRRIGATION TYPE..... SPRINKLER

NUMBER OF CROPS...... 4

## **VERSION 1.0**

## COPYRIGHT (C) 1984 by NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS

New Mexico State University is an equal opportunity employer. All programs are available to everyone regardless of race, color, religion, sex, age, handicap, or national origin. New Mexico State University and the U.S. Department of Agriculture Cooperating.

- \* YOU MAY ENTER DATA IN ANY INPUT TABLE WITH HIGHLIGHTED CELLS OR YOU MAY STRIKE [ENTER] AND RETURN TO THE MENU
- \*\* BE SURE PRINTER IS ON AND PAPER IS ALIGNED BEFORE YOU PRINT

		_	WATER USE	
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHME	NT	25.00 *	9	225
ALFALFA		125.00	30	3,750
WHEAT ARP		212.50 0.00	18	3,825
FLEX IN CORN		37.50	30	1,125
CORN		106.25	30	3,188
ARP		0.00		
FLEX IN CORN		18.75	30	563
PEANUTS		250.00	22	5,500
CORNERS, HOMESTEAD	)	210.00		
	TOTAL	960.00		18,175
	HTS	1.58		

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

TABLE 2. Basic cost information for the Blackwater Draw area, Roosevelt County, Projected 2018

Projected 2018			
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:			
Wheat		\$/pound	\$0.44
Corn		\$/bag	\$240.00
Alfalfa Peanuts		\$/pound	\$4.00
Peanuts		\$/pound	\$1.10
Energy:			
Natural gas (Gas NM)		\$/MCF	\$3.99
Diesel fuel		\$/gallon	\$2.70
Gasoline Electricity (SWPS)		\$/gallon cents/KwHr	\$2.40 11.68
LP Gas		\$/gallon	\$2.75
Li Gas		ψ/gallon	Ψ2.73
Employee Liability Insurance		\$/\$1,000 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	\$89.00	/acre (full value)	\$0.68
Personal Property Tax Rate	- NR	\$/\$1,000 (Assessed	\$23.08
	- R	Value)	\$19.78
Supervision Factors			
Field Crop-Irrigation		\$/labor hour	\$1.00
Field Crop-Equipment & General		\$/labor hour	\$0.50
Management Rate		percent	7.00%

TABLE 3. Overhead cost information for Blackwater Draw area, Roosevelt County, Projected 2018

Item					
Electricity (Domestic &	& Shop)		\$419.10	per month	\$5,029
Telephone			\$177.80	per month	\$2,134
Accounting & Legal					\$2,800
Misc. Supplies & Han-	d Tools				\$3,835
Pickup and Auto					
miles	32,703	@	\$0.500 per mile		\$16,351
Insurance - general liability (nor - fire/theft Property Taxes - non-planted land	n-employee)				\$2,502 \$2,007 \$0
<ul> <li>other than land &amp; m</li> </ul>					\$6,010
Building repairs and n					\$1,250
Dues, fees, publicatio					\$457
Farmstead Equipmen	t				\$298
				Total	\$42,674
			Total Per Planted Acre		\$56.90

TABLE 4 Pumping cooks and data for Principal 2018	ongelon webs. Machanier Dr	se area Nassewii Cauty		Ξ,	
DELITERY PER EPHROGER	DEFTHON	AACTERETICE ETATIC DRAW DOWN TOTAL HEAD CASING	130 16 135 230		
GALLONE PER MINUTE (SPM) WORK HORSEPOWER EFFICIENCY FACTOR	49				
NATURAL GAS LP GAS DESEL FUEL COST PER HOUR	0 000 0 126 0 126 0 130				
RECTRICATE  NATURAL DAY  LP DAY  DRIEL  FLAMPING COSTS	11 68 CBNTSK- 53 99 SMCF 52 75 SGAL 52 70 SGAL	*			
ELECTRIC WELL COST PER HOUR COST PER ACRE NO	39 SI 30 28				
ONTERNE GAS. COST PER HOUR COST PER ACRE NON  LP GAS WELL COST PER HOUR COST PER ACRE NON	\$6.36 \$0.37 \$29.66 \$19.73				
DESELVELL COST PER HOUR COST PER ACRE NO	\$16.73 \$16.26 \$6.72				
TABLE I: Equipment summary for a Te Protected 2018	ID acre spenderungsted ber	with above average manag	enerii Blackwaler Dawa	ima	
FRAM & SUR	ANUAL NAMES OF USE	TOTAL PUBL OL. VALUE LUBRIDANT	MEPAR PUBLICA	PAR PA	PRECATON INNE FEE HE
PROCESS 153 FF 155 FF 1	2010 ART 1 2010 ART 1 2010 ART 1 2010 1 2010 1 2011	DEM 2017 310 DAM 241 SET 127 637 18 1000 34 000 34 000 31 000 31 000 33 300 33 400 33 100 34 100 35	E 117 E 27 10 10 10 10 10 10 10 10 10 10 10 10 10	54 35 55 60 57 60 58 60 50 50 50 50 50 50 50 50 50 5	\$1 0.00   2079   2014   10 10 10 10 10 10 10 10 10 10 10 10 10
PLOAT 12 PT DMLL 21 PT DML 31 PT LISTER 8 NOV PLOSE (MOLDBOAND 6-14 N) RINGS	26 1 111 1 127 1	\$100 \$1 600 \$3 200 \$6 100 \$3 400	\$0 \$41 \$60 \$80 \$68	50-00 51-75 53-97 56-30 50-96	\$13 \$3 \$11.88 \$750 \$28 \$31.46 \$477 \$28 \$4.06 \$880 \$38 \$3.47 \$380 \$28 \$7.32
RIGGE PREFACER CLX PEN 2PRAYER (STD) DIG AND NUEST 4 ROW ROD NIESEER 8 ROW 20179-BK 14 FT2P RIGGE TON PROVIE TONOLOGIES (STD) PENNET THROUGHS	0 0 0 0 0 1 13 1 1 100 1 1 1 1 1 1 1 1 1	\$0 \$1,200 \$628 \$3,900 \$38,745	30 33 310 388 310 11	30-00 30-06 30-76 30-98 31-70	30 30 50 00 5167 370 32 54 310 31 38 78 31 60 3172 31 62 31 872 338 \$140 00
PROVENING LOCAL (IPC) PROVIDE THREE PROVIDE PROVIDE CINTER PROT IPPROVIDE ELECTRIC WELL	200 1 83 1 9477 2 9477 2	\$19 000 \$86 002 \$10 000 \$10 000 \$10 000	\$232 \$13 \$0 \$19364 \$0.92	31 % 30 % 30 00 32 00	\$3 MF \$223 \$23 65 \$467 \$27 \$3.54 \$4 000 \$221 \$3.44 \$2.308 \$225 \$3.26
-	EQUPMENT	LIST			
TRACTOR 140 HP MIS TRACTOR 165 HP MIS TRACTOR 165 HP MIS PLANTER 8 ROW	NEW LISED 19118 19118 ND 7211100 303610 ND 9236100 403610 1100000 800000	YEARS EQUIP LPS 02008 15:00 1:00 15:00 1:00 15:00 8:00	MAX PUBL HOURS LINEOUS 800-00 7 10 800-00 9 42 100-00	ALVADE ACCUM CORP HOUSE 0 10 6006 13 0 10 8603 26 603 80	0/20/0027 AGE 0/20/002 13:00 7994 14 11:00 28/02/9 13:00 302/8
TRACTOR 160 PF MIST TRACTOR 18 PF MIST TRACTOR 18 PF MIST TRACTOR 18 PF MIST TRACTOR 19 P	VC 72115 00 38086 80 VC 8086 00 48086 80 11000 00 8800 80 2000 00 1000 80 8000 00 4000 80 12000 00 4000 80 12000 00 600 80 12000 00 1800 80 800 00 1800 80 800 00 800 80 1200 00 1800 80	18 00 1 00 15 00 1 00 15 00 8 00 15 00 8 00 15 00 3 00 15 00 3 00 15 00 3 00 15 00 8 00 15 00 8 00 15 00 3 00 15 00 8 00 15 00 3 00	800-00 7 10 800-00 9 42 100-00 300-00 300-00 300-00 300-00 300-00 300-00 300-00 300-00 800-00 800-00	0 30 4000 10 601 30 601	100 300 150 150 150 150 150 150 150 150 150 1
CETTER B HOW PUON BIOLOGICAND B-14 IN HAME PERT SPREADER CLR PION SPRAYER MITS 14 PT TO MANUEL MITS AND MANUEL	8800 00 2000 00 10200 00 8100 00 8800 00 3800 00 2800 00 1000 00	15:00 1:00 15:00 1:00 20:00 6:00 15:00 8:00	30 00 30 00 80 00	1762 00 2000 00 760 00	16:00 176:00 16:00 280:00 16:00 187:00 17:00 18:00 16:00 77:00
PERT SPREAZER CLK PRO SPREATER, ATC. SIGNAD AMERY 4 ROW ROD WEETER 5 ROW STANTHER 1 FTSP BALER 1 TON PRONT ENGLISHER PRONT ENG	#800 00 3800 00 2800 00 1280 00 1280 00 1280 00 1280 00 #25 00 2800 00 2800 00 87175 00 2803 00 8000 00 2800 00 7000 00 2800 00 7000 00 3800 00 28000 00 18000 00 28000 00 18000 00	15 00 8 00 15 00 4 00 15 00 2 00 20 00 2 00 15 00 2 00 15 00 2 00 15 00 4 00 15 00 4 00 15 00 2 00 20 00 2 00	180 00 300 00 300 00 800 00 300 00 300 00 300 00 804 00 80	98 00 0 20 1400 00 87 90 290 79 300 00	16:00 36:38 14:00 797:80 2:00 2987:31 16:00 160:38 16:00 1696:00
PROMET TRACER CONTEX PACT EPHROLEX ELECTRIC WELL	7000 00 3600 00 36000 00 16000 00 26000 00 16600 00	15 00 4 00 15 00 0 00 25 00 2 00	30.00 EFG 00 EFG 00 20.00	1367 80 72677 95 26-90 120961 75	16:00 160:00 16:00 806:00 26:00 803:00
ALPADA ALPADA	PER AC				
	036 042 1 134 230 1 032 032 1	31 06 24			
000 000 000 010 000 000 010 000 000 010 000 010	0.50 0.20 0.18 0.38 0.2 0.20 0.00 0.00 0.00 0.00	70 70 80 19 20			
0-30	0 MI 0 MI 1 MI 0 MI 1 MI 1 MI 1 MI 1 MI	21 (66 ) 24 (77 ) 76			
000 000 000 000 036 000 000 136 000 000 000 000 000 000 000	0.00 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0	20 20 20 20 21			
479 15 07 5 18 479 15 07 5 18	107 100 0	22			
NTEREST PROPATION ALPALPA	ON HAND				
duties per acre 6 97 0 41 1 19 0 00 0 00 0 00	225 284 386 711 073 073				
0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0	238 256 386 711 973 973 980 922 986 936 986 937 987 922 900 900 900 900 943 943 966 966 966 966				
0.00 0.00 0.00 0.00 1.00 0.00	043 043 044 044 000 000				
6 H	000 000 000 028 021 000 000 000 000 000 000 000 000 000 000 000 000 077 138 127				
1 36 0 40 1 33 0 0 0 38 0 2 86	136 127 133 126 1233 2313				
ALPALPA ESTABLISHMENT	ACRES 26	PURP WATER ACCOMPLISHMENT	8 00		
MACHNE DEC PLOSE PLOSE	UNIT CVEK	00 00 00 00 00 00 00 00 00 00 00 00 00	LEPON		
DESC. PLONE PLONE PERSON PERSON DESC. PRESONATE DESL. BREGATE (DR)	188 HP 1 00 188 HP 1 00 160 HP 1 00 160 HP 1 00 188 HP 1 00 100 HP 1 00 2 00	000 000 018 100 010 010 036 319			
ALPALPA HAY	ADRES 126	PURP WATER	30 00		
MADINE REGATE PERT EPREADER	POWER TRIES UNT OVER 10.00 100 HP 1.00	ACCOMPLISHMENT  NATE TOTAL C  0.00 10.00  0.00 0.00	LETON		
DANDER (CO					
BALEN (DO PRONT END LOADEN (DO	5.P 5.00 100 HP 5.00 100 HP 5.00 100 HP 5.00	0 M 0 M 0 M 0 M 0 F 0 M 0 M 1 M			
WHEAT	ACRES 2128 POWER THES UNT OVER	PURP MATER ACCOMPLISHMENT	18 00 3J870M		
DEC PLOW DEC PERTEPREADER	POWER TRIES UNIT OVER TRE HP 0 00 TRE HP 1 00 TRE HP	ACCOMPLED-MENT  RATE 70TAL 0  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.10 0.00  0.10 0.00  0.10 0.00  0.10 0.00	J. Gross		
DREAT DREATE (178)	100 P 100	10 10			
COMBINE (CLETON) PER BUSH PER BUSHEL OVER 30 HVUL (CLETON) PER BUSHEL			0.27 0.19 0.16		
CORN FOR GRAIN	A0988 1628	PURP WATER ACCOMPLISHMENT	30 00		
MACHNE DEC (0) PLOW CHEEL (0)	UNIT CVES	88.78 70184 0 0.09 0.18 0.29 0.29 0.10 0.20	J.EPOM		
PLONE OHIBEL (DO) PRINT SPREACHEK PRE-ROSEATE LISTER (DO) ROD HERD PLANTER BAND PLINKON (NO)	185 HP 2 00 185 HP 1 00 185 HP 2 00 160 HP 1 00 185 HP 3 00 185 HP 1 00 185 HP 1 00 160 HP 5 00	FORTH TOTAL C			
COMMENT (CITY PER CAT HALL (CUSTOM) PER CAT	12 00	vo 0.8	038 038		
mus. (CURTOM) PER CITT	_				
none success	ACRES 200 POWER THES UNY OVER	PURP WATER ACCOMPLISHMENT RATE TOTAL C	J.ETOM		
DRIC PLON CHEEL PERT EPREADER SPRAY & DRIC PRE-BRIGATE	101 HP 2 101 HP 1 101 HP 2 100 HP 1 101 HP 0 101 HP 3	0 00 0 18 0 29 0 29 0 10 0 20 0 10 0 00 0 12 0 00 0 12 0 00 0 12 0 00 0 12 0 12 0 12 0 12			
PRE-MONTH   PLANTER   PLANTER   APPLY PERMICHOR (CUETORI) CULTIVATOR (CIETORI) INNOCATE (CUETORI) INNOCATE (CIETORI)	10 MP 2	0.00 0.07 0.02 0.12 0.00 0.20 0.07 0.20	27 00 10 00		
DIS AND INVENT COMMINE PERMITS INVE	105.9P 1 105.9P 1	120 120			
POSTHURVEST OPERATORS  BROADCAST WHEAT  BOLL PADEER  BROATE (EQ	100F 1	PURP MATER. 0.17 0.17 0.00 0.19	6 00		
Mars of Use 1	ANNUAL REPAIR COSTS	AS A PERCENT OF MEW	7 8		
0 0 00000 0 00000 80 0 00000 0 00000 100 0 00000 0 00000 200 0 00000 0 00000	0 000000 0 000000 0 0 000000 0 000000 0 0 000000	0 000000 0 000140 0 0 000000 0 000140 0 0 000140 0 000200 0 0 000180 0 000200 0	7 8 0000040 0 0000040 0 0000040 0 0000040 0 0000040 0 0000040 0 0000010 0 0000040 0 0000100 0 0000040 0 0000100 0 0000004 0 0000100 0 0000004 0 00000040 0 0000004 0 00000040 0 0000004 0 00000040 0 0000004 0 00000040 0 000040 0 0000040 0 000040004		
#00 0 000000 0 00000 800 0 000000 0 00000 800 0 000000 0 00000 700 0 000000 0 00000 800 0 000000 0 00000	0 000300 0 000100 0 000375 0 00000 0 000300 0 000130 0 000300 0 000130 0 000300 0 000130	- ALAN 0 000310 0 0 000380 0 000380 0 0 000380 0 000380 0 0 000380 0 000480 0 0 000380 0 000480 0	-AFFRA G 000630 0 1 000180 0 000710 0 1 000179 0 000800 0 1 000190 0 000800 0 1 000210 0 000810 0 1 000210 0 000800 0	000 800 000 800 000 800 000 800 000 800 000 800	
Name	3 4 0 000000 0 000000 0 000000 0 0 000000 0 0 000000	8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 B  0000000 0 0000000  0000000 0 0000000  000000	0000000 0000000 0000000 0000000 0000000	
1800 0 00075 0 00078 2000 0 00075 0 00038 2000 0 00086 3000 0 00086 3000 0 00086	0 0000M 0 000M 0 0000M 0 000M	000000 000000 0	000296 0002310		
1					
	uspäilished data all D. K. Min-	Department of Autour		_	
- Basel on	unphished data of D. N. Hur Engineeting: University of I "Agricultural Minchinery Data" Engineers Yearbook: 1983	in Agricultural			
Codes 1 Socies 2 Soles co 3 Soley Nor	others hasp horseless in data modulated plans also data modulated plans also data modulated plans also data modulated plans has been data of a called palarm outlined also data of a last leading palarm outlined and plans data of a last leads a last leads a last leads a last leads of the last leads of	down policys ets best cultimors			
tion culties 4 horizons to land shape 5 horizonage contralage bed wage		rater waterfurne pers con praters wes stath chappers			
T baller at m E granten a B planten d B beliliar d	ngire manue spreader lots seeding equipment mos sirbuting equipment	tied sprigrens			

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 960 acre farm with above average management, Roosevelt County, Projected 2018
Planting Dates: August 15 - August 30

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED	\$4.00	20 LBS	\$80.00					\$80.00
NITROGEN (N)	\$0.31	40 LBS	\$12.40					\$12.40
PHOSPHATE (P2O5)	\$0.24	60 LBS	\$14.40					\$14.40
PUMP WATER*		9 AC. IN.						
SUBTOTAL			\$106.80				-	\$106.80
	POWER	ACCOMPLISHMENT	PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT	RATE	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTAL
DISC	185 HP	0.09 HR		\$0.77	\$2.52	\$1.18	\$1.37	\$5.84
PLOW	185 HP	0.29 HR		\$2.48	\$8.11	\$3.47	\$4.16	\$18.23
FLOAT	140 HP	0.19 HR		\$1.62	\$4.01	\$0.83	\$4.25	\$10.72
FERT SPREADER	140 HP	0.05 HR		\$0.43	\$1.05	\$0.22	\$0.53	\$2.23
DISC	185 HP	0.09 HR		\$0.77	\$2.52	\$1.18	\$1.37	\$5.84
PRE-IRRIGATE		0.10 HR		\$0.75	\$15.85	\$3.19	\$1.12	\$20.92
DRILL	140 HP	0.10 HR		\$0.86	\$2.11	\$0.61	\$4.20	\$7.77
IRRIGATE (2X)		0.20 HR		\$1.50	\$31.71	\$6.39	\$2.24	\$41.84
SUBTOTAL		1.11 HR		\$9.18	\$67.88	\$17.07	\$19.25	\$113.37
OVERHEAD EXPENSES								
DOWNTIME		0.19 HR		\$1.62				\$1.62
EMPLOYEE BENEFITS				\$1.65				\$1.65
INSURANCE			\$0.18					\$0.18
SUPERVISION AND MANAGEMENT				\$8.18				\$8.18
SUBTOTAL		0.19 HR	\$0.18	\$11.46				\$11.64
TOTAL OPERATING EXPENSES		1.30 HR	\$106.98	\$20.63	\$67.88	\$17.07	\$19.25	\$231.81

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 960 acre farm with above average management, Blackwater Draw area, Roosevelt County, Projected 2018

Harvest Dates: May 20 - October 15 ITEM PRICE YIELD TOTAL GROSS RETURNS \$185.00 5.20 TONS (STACKED) \$962.00 HAY GRAZING \$50.00 1.00 ACRE \$50.00 \$1,012.00 TOTAL PURCHASED FIXED PURCHASED INPUTS PRICE INPUTS COST TOTAL QUANTITY PHOSPHATE (P2O5) 150 LBS \$36.00 \$36.00 \$0.24 PLASTIC TWINE \$19.15 884 FT \$4.23 \$4.23 INSECTICIDE (CUSTOM) \$20.01 1 X/ACRE \$20.01 \$20.01 HERBICIDE (CUSTOM) \$16.96 X/ACRE \$16.96 \$16.96 ESTABLISHMENT: Principal 5 YEARS \$46.36 \$46.36 \$7.26 \$7.26 PUMP WATER\* 30 AC. IN. SUBTOTAL \$77.20 \$53.63 \$130.83 POWER PURCHASED FUEL & FIXED ACCOMPLISHMENT PREHARVEST OPERATIONS LABOR REPAIRS TOTAL UNIT RATE **INPUTS** LUBE COST IRRIGATE 1.00 HR \$7.50 \$158.53 \$31.95 \$11.21 \$209.18 FERT SPREADER 140 HP 0.05 HR \$0.43 \$1.05 \$0.22 \$0.53 \$2.23 SUBTOTAL 1.05 HR \$7.93 \$159.58 \$32.16 \$11.74 \$211.41 HARVEST OPERATIONS SWATHER (5X) \$27.88 S.P. 0.80 HR \$6.84 \$8.09 \$0.46 \$12.49 RAKE (5X) 140 HP 0.40 HR \$3.42 \$8.44 \$2.12 \$7.13 \$21.11 BALER (5X) 185 HP 0.35 HR \$2.99 \$9.79 \$2.59 \$52.21 \$67.59 FRONT END LOADER (5X) 140 HP 1.25 HR \$10.69 \$26.37 \$9.39 \$15.33 \$61.78 SUBTOTAL 2.80 HR \$0.00 \$23.94 \$52.69 \$14.57 \$87.17 \$178.37 **OVERHEAD EXPENSES** DOWNTIN IME 0.70 HR \$5.99 \$5.99 EMPLOYEE BENEFITS \$5.74 \$5.74 **INSURANCE** \$0.16 \$0.16 LAND TAXES \$0.68 \$0.68 SUPERVISION AND MANAGEMENT \$73.27 \$73.27 OTHER EXPENSES \$56.90 \$56.90 SUBTOTAL 0.70 HR \$57.06 \$84.99 \$0.68 \$142.73 TOTAL OPERATING EXPENSES 4.55 HR \$134.26 \$116.85 \$212.27 \$46.73 \$153.22 \$663.33 NET OPERATING PROFIT \$348.67 INTEREST ON OPERATING CAPITAL 5.50% \$92.14 @ ) \$5.07 INTEREST ON EQUIPMENT INVESTMENT \$39.02 RETURN TO LAND AND RISK \$304.59 \* Pump water costs are shown under irrigation in the preharvest operations section. **BUDGET SUMMARY** 

GROSS RETURN		\$1,012.00	
VARIABLE OPERATING EXPENSES	\$393.26		
RETURN OVER VARIABLE EXPENSES		\$618.74	(GROSS MARGIN)
FIXED EXPENSES	\$153.22		
NET FARM INCOME		\$465.52	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$116.85	_	
NET OPERATING PROFIT		\$348.67	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$44.08		
RETURN TO LAND AND RISK		\$304.59	

TABLE 8. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 960 acre farm with above average management, Blackwater Draw area, Roosevelt County, Projected 2018
Planting Dates: August 20 - September 15
Harvest Dates: June 1 - June 25

ITEM	PRICE		YIEL	.D	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$4.40 \$0.00 \$0.00 \$0.00		60.00	BUSHELS BUSHELS ACRE	0.85					\$264.00 \$0.00 \$0.00 \$0.00
TOTAL									-	\$264.00
PURCHASED INPUTS	PRICE		QUAN <sup>-</sup>	TITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED NITROGEN (N) PHOSPHATE (P205) INSECTICIDE (CUSTOM) PUMP WATER* CROP INSURANCE SUBTOTAL	\$0.44 \$0.31 \$0.24 \$20.01 \$0.24		120 120 40 1	LBS	\$52.80 \$37.20 \$9.60 \$20.01 \$0.24 \$119.84				-	\$52.80 \$37.20 \$9.60 \$20.01 \$0.24 \$119.84
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI:		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
BROADCAST (CUSTOM) IRRIGATE (17X)			0.85	HR	\$4.00	\$6.38	\$95.12	\$19.17	\$6.73	\$4.00 \$127.39
SUBTOTAL			0.85	HR	\$4.00	\$6.38	\$95.12	\$19.17	\$6.73	\$131.39
HARVEST OPERATIONS										
COMBINE (CUSTOM) HAUL (CUSTOM)					\$5.97 \$9.60					\$5.97 \$9.60
SUBTOTAL					\$15.57					\$15.57
OVERHEAD EXPENSES										
DOWNTI IME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.00	HR	\$0.13 \$56.90	\$0.00 \$1.15 \$19.33			\$0.68	\$0.00 \$1.15 \$0.13 \$0.68 \$19.33 \$56.90
SUBTOTAL			0.00	HR	\$57.03	\$20.48			\$0.68	\$78.19
TOTAL OPERATING EXPENSES			0.85	HR	\$196.44	\$26.85	\$95.12	\$19.17	\$7.41	\$344.99
NET OPERATING PROFIT										(\$80.99)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(	\$89.79	@	5.50%	)				\$4.94 \$2.86
RETURN TO LAND AND RISK										(\$88.78)
* Pump water costs are shown under irrigatio	n in the preha		ons section. SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$310.72 \$7.41 \$26.85 \$7.79	\$264.00 (\$46.72) (\$54.13) (\$80.99) (\$88.78)	(RETURI	MARGIN) N TO CAPITAL, LA		& RISK)			

TABLE 9. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 960 acre farm with above average management, Blackwater Draw area, Roosevelt County, Projected 2018

Planting Dates: April 25 - May 30

Planting Dates: April 25 - M Harvest Dates: November 1										
ITEM	PRICE		YIEL	D	BASE					TOTAL
GROSS RETURNS CORN FOR GRAIN DIRECT PAYMENT COUNTER CYCLICAL PAYMENT	\$6.61 \$0.00 \$0.00		100.00 100.00 0.00	CWT	0.85					\$660.71 \$0.00 \$0.00
GRAZING	\$15.00		1.00	ACRE						\$15.00
TOTAL										\$675.71
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUANT	TTY	INPUTS				COST	TOTAL
SEED NITROGEN (N) PHOSPHATE (P205) POTASH (K20) TRACE ELEMENTS HERBICIDE INSECTICIDE (CUSTOM) PUMP WATER* CROP INSURANCE SUBTOTAL	\$3.00 \$0.31 \$0.24 \$0.13 \$15.36 \$21.24 \$24.65		250   80   40   1 1		\$72.00 \$77.50 \$19.20 \$5.00 \$15.36 \$21.24 \$24.65 \$0.31				-	\$72.00 \$77.50 \$19.20 \$5.00 \$15.36 \$21.24 \$24.65 \$0.31
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X) PLOW CHISEL (2X) FERT SPREADER PRE-IRRIGATE (3X) LISTER (3X) ROD WEED PLANTER SAND FURROW (5X) IRRIGATE (12X)	185 HP 185 HP 185 HP 140 HP 185 HP 185 HP 185 HP 140 HP		0.18 0.29 0.20 0.05 0.30 0.27 0.08 0.12 0.50	HR HR HR HR HR HR HR HR HR		\$1.54 \$2.48 \$1.71 \$0.43 \$2.25 \$2.31 \$0.68 \$1.03 \$4.28 \$9.00	\$5.03 \$8.11 \$5.59 \$1.05 \$31.71 \$7.55 \$2.24 \$3.36 \$10.55 \$126.82	\$2.36 \$3.47 \$2.40 \$0.22 \$6.39 \$2.60 \$0.51 \$1.00 \$4.66 \$25.56	\$2.75 \$4.16 \$2.87 \$0.53 \$2.24 \$3.44 \$1.24 \$3.81 \$7.40 \$8.97	\$11.68 \$18.23 \$12.57 \$2.23 \$42.59 \$15.90 \$4.67 \$9.19 \$26.88 \$170.35
SUBTOTAL		-	3.19	HR		\$25.70	\$202.02	\$49.15	\$37.40	\$314.27
HARVEST OPERATIONS										
COMBINE (CUSTOM) HAUL (CUSTOM)					\$35.00 \$18.00					\$35.00 \$18.00
SUBTOTAL		•			\$53.00					\$53.00
OVERHEAD EXPENSES										
DOWNT IME EMPLO YEE BENEF ITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.41	HR	\$0.51 \$56.90	\$3.51 \$4.63 \$49.65			\$0.68	\$3.51 \$4.63 \$0.51 \$0.68 \$49.65 \$56.90
SUBTOTAL		-	0.41	HR	\$57.41	\$57.78			\$0.68	\$115.87
TOTAL OPERATING EXPENSES		-	3.60	HR	\$345.67	\$83.48	\$202.02	\$49.15	\$38.09	\$718.40
NET OPERATING PROFIT										(\$42.69)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTM		(	\$184.84	@	5.50%	)				\$10.17 \$12.33
RETURN TO LAND AND RISK										(\$65.19)
* Pump water costs are shown under in	igation in the preha		tions section. SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST		\$596.84 \$38.09 \$83.48	\$675.71 \$78.87 \$40.79		S MARGIN) N TO CAPITAL, LA	ABOR, LAND	& RISK)			
NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$22.50	(\$42.69) (\$65.19)	(RETUR	N TO CAPITAL, LA	ND & RISK)				

TABLE 10. Peanuts, sprinkler-irrigated, budgeted per acre costs and returns for a 960 acre farm with above average management, Blackwater Draw area, Roosevelt County, Projected 2018
Planting Dates: May 10 - June 10
Harvest Dates: October 10 - November 10

ITEM	PRICE		YIEL	D						TOTAL
GROSS RETURNS PEANUTS	\$0.1650		2,700.00	LBS						\$445.50
TOTAL									•	\$445.50
PURCHASED INPUTS	PRICE		QUAN <sup>-</sup>	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED (PEANUT)	\$1.10		100	LB	\$110.00					\$110.00
NITROGEN (N)	\$0.31		70	LB	\$21.70					\$21.70
PHOSPHATE (P205)	\$0.24			LB	\$19.20					\$19.20
POTASH (K2O)	\$0.14			LB	\$4.05					\$4.05
TRACE ELEMENTS & MANURE HERBICIDE	\$11.14 \$21.18			X/ACRE X/ACRE	\$41.14 \$21.18					\$41.14 \$21.18
INSECTICIDE (CUSTOM)	\$21.16 \$16.96			X/ACRE	\$16.96					\$16.96
FUNGICIDE	\$25.00			X/ACRE	\$25.00					\$25.00
PUMP WATER	Ψ20.00			AC. IN.	Ψ20.00					Ψ20.00
SUBTOTAL					\$259.23					\$259.23
	DOWED		4.000 ADI I	OLIMENIT	DUDCHACED		FUEL 0		FIVED	
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	185 HP		0.18	HR		\$1.54	\$5.03	\$2.36	\$2.75	\$11.68
PLOW	185 HP		0.29			\$2.48	\$8.11	\$3.47	\$4.16	\$18.23
CHISEL (2X)	185 HP		0.20			\$1.71	\$5.59	\$2.40	\$2.87	\$12.57
FERT SPREADER	140 HP		0.05	HR		\$0.43	\$1.05	\$0.22	\$0.53	\$2.23
SPRAY & DISC	185 HP		0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PRE-IRRIGATE			0.30			\$2.25	\$44.39	\$7.03	\$2.47	\$56.13
LISTER	185 HP		0.27			\$2.31	\$7.55	\$2.60	\$3.44	\$15.90
PLANTER	185 HP		0.12	HK	\$27.00	\$1.03	\$3.36	\$1.00	\$3.81	\$9.19 \$27.00
APPLY FUNGICIDE (CUSTOM) CULTIVATOR (2X)	140 HP		0.20	ШΒ	<b>Φ21.00</b>	\$1.71	\$4.22	\$1.86	\$2.96	\$10.75
HAND HOE (CUSTOM)	140116		0.20	TIIX	\$10.00	φ1.71	ψ <del>4</del> .22	φ1.00	φ2.50	\$10.73
IRRIGATE (7X)			0.70	HR	ψ.σ.σσ	\$5.25	\$103.57	\$16.40	\$5.75	\$130.98
SUBTOTAL		_	2.31	HR	\$37.00	\$18.70	\$182.88	\$37.33	\$28.73	\$304.64
HARVEST OPERATIONS										
DIG AND INVERT	185 HP		0.24	HR		\$2.05	\$6.71	\$13.69	\$2.79	\$25.25
COMBINE PEANUTS	185 HP		0.80	HR		\$6.84	\$22.37	\$5.45	\$23.30	\$57.97
HAUL	140 HP		0.37	HR		\$3.16	\$7.81	\$1.66	\$5.86	\$18.49
SUBTOTAL		_	1.41	HR	\$0.00	\$12.06	\$36.89	\$20.81	\$31.95	\$101.71
OVERHEAD EXPENSES										
DOWNTIN IME			0.68	HR		\$5.81				\$5.81
EMPLOYEE BENEFITS						\$5.54				\$5.54
INSURANCE					\$0.62					\$0.62
LAND TAXES									\$0.68	\$0.68
SUPERVISION AND MANAGEMENT OTHER EXPENSES	NT				\$56.90	\$33.55				\$33.55 \$56.90
SUBTOTAL		-	0.68	HR	\$57.51	\$44.90			\$0.68	\$103.09
TOTAL OPERATING EXPENSES		-	4.40	HR	\$353.74	\$75.65	\$219.78	\$58.14	\$61.37	\$768.68
NET OPERATING PROFIT										(\$323.18
INTEREST ON OPERATING CAPI INTEREST ON EQUIPMENT INVE		(	\$189.48	@	5.50%	)				\$10.42 \$23.13
RETURN TO LAND AND RISK										(\$356.73
* Dump water costs are also and	or irrigation in the proba	norotic -	a acation							
* Pump water costs are shown under			s section. SUMMARY							

GROSS RETURN		\$445.50	
VARIABLE OPERATING EXPENSES	\$631.65		
RETURN OVER VARIABLE EXPENSES		(\$186.15)	(GROSS MARGIN)
FIXED EXPENSES	\$61.37		
NET FARM INCOME		(\$247.53)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$75.65		
NET OPERATING PROFIT		(\$323.18)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$33.55		
RETURN TO LAND AND RISK		(\$356.73)	

TABLE 11. Summary of per acre costs and returns for a 960 acre farm with above average management, Blackwater Draw area, Roosevelt County, Projected 2018

Projected 2016	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	CORN	PEANUTS
		TONS	BU	CWT	LBS
PRIMARY YIELD		5.20	60.00	100.00	2,700.00
PRIMARY PRICE		\$185.00	\$4.40	\$6.61	\$0.17
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$50.00	\$0.00	\$15.00	\$0.00
GROSS RETURN		\$1,012.00	\$264.00	\$675.71	\$445.50
CASH OPERATING EXPENSES					
SEED	\$80.00		\$52.80	\$72.00	\$110.00
FERTILIZER	\$26.80	\$36.00	\$46.80	\$117.06	\$44.95
CHEMICALS		\$36.97	\$20.01	\$45.89	\$63.14
CROP INSURANCE			\$0.24	\$0.31	
OTHER PURCHASED INPUTS CANAL WATER					\$41.14
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$20.32	\$53.75	\$0.00	\$43.49	\$71.82
FUEL-IRRIGATION	\$47.56	\$158.53	\$95.12	\$158.53	\$147.96
REPAIRS	\$17.07	\$46.73	\$19.17	\$49.15	\$58.14
CUSTOM CHARGES			\$19.57	\$53.00	\$37.00
LAND TAXES	\$0.00	\$0.68	\$0.68	\$0.68	\$0.68
OTHER EXPENSES	\$0.18	\$57.06	\$57.03	\$57.41	\$57.51
TOTAL CASH EXPENSES	\$191.93	\$389.71	\$311.41	\$597.53	\$632.34
RETURN OVER CASH EXPENSES	(\$191.93)	\$622.29	(\$47.41)	\$78.19	(\$186.84)
FIXED EXPENSES	\$19.25	\$152.53	\$6.73	\$37.40	\$60.69
TOTAL EXPENSES	\$211.18	\$542.25	\$318.13	\$634.93	\$693.03
NET FARM INCOME	(\$211.18)	\$469.75	(\$54.13)	\$40.79	(\$247.53)
LABOR AND MANAGEMENT COSTS	\$20.63	\$116.85	\$26.85	\$83.48	\$75.65
NET OPERATING PROFIT	(\$231.81)	\$352.90	(\$80.99)	(\$42.69)	(\$323.18)
CAPITAL COSTS					
INTEREST ON OPERATING CAPITAL	\$0.00	\$5.07	\$4.94	\$10.17	\$10.42
INTEREST ON EQUIPMENT INVESTMENT	\$0.00	\$39.02	\$2.86	\$12.33	\$23.13
TOTAL CAPITAL COSTS	\$0.00	\$44.08	\$7.79	\$22.50	\$33.55
RETURN TO RISK	(\$231.81)	\$308.82	(\$88.78)	(\$65.19)	(\$356.73)

Flex Computation -79.20 -15.45

TABLE 12. Whole farm summary, Blackwater Draw area, Roosevelt County, Projected 2018

Projected	1 20 18			
GROSS RETURNS ALFALFA HAY CROP GRAZING WHEAT CROP	125.00 ACRES 212.50 ACRES	\$120,250 \$6,250 \$56,100		
GRAZING DIRECT PAYMENT COUNTER CYCLICA CORN FOR GRAIN	AL PAYMENT	\$0 \$0 \$0		
CROP GRAZING DIRECT PAYMENT COUNTER CYCLIC PEANUTS		\$107,366 \$2,438 \$0 \$0		
CROP GROSS RETURN		\$111,375		\$403,779
FUEL-IRRIGATION REPAIRS CUSTOM CHARGE LAND TAXES OTHER EXPENSE	E ED INPUTS ICANTS-EQUIPMENT I	\$52,420 \$45,375 \$32,115 \$100 \$10,284 \$0 \$32,247 \$103,968 \$32,863 \$22,021 \$514 \$42,963	\$374,869	
RETURN OVER CASH			φ3/4,009	\$28,909
FIXED EXPENSES		\$36,431		
TOTAL E	EXPENSES		\$411,300	
NET FARM INCOME				(\$7,522)
LABOR AND MANAGE	EMENT COSTS	\$53,306		
NET OPERATING PRO	OFIT			(\$60,828)
	ERATING CAPITAL UIPMENT INVESTMENT	\$5,940 \$13,271		
TOTAL C	CAPITAL COSTS	-	\$19,211	
RETURN TO RISK				(\$80,039)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$500 /ACRE	(\$94,439)	-8.29%
\$750 /ACRE	(\$101,639)	-6.24%
\$1,000 /ACRE	(\$108,839)	-5.01%
\$1,250 /ACRE	(\$116,039)	-4.18%
\$1,500 /ACRE	(\$123,239)	-3.59%
\$1,750 /ACRE	(\$130,439)	-3.14%
\$2,000 /ACRE	(\$137,639)	-2.80%

<sup>\*</sup> RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

<sup>\*\*</sup> NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)