

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... UNION COUNTY\Projected 2008.
FARM SIZE..... 1,280.00 ACRES
IRRIGATION TYPE..... SPRINKLER
NUMBER OF CROPS..... 3

VERSION 1.0

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TABLE 1. Acreage Summary, Union County, Projected 2008.

BUDGET AREA..... UNION COUNTY	
FARM SIZE.....	1,280 ACRES
IRRIGATION TYPE.....	SPRINKLER
NUMBER OF CROPS..	4

WATER USE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
WHEAT	446.25	11	4,909
ARP	0.00		
FLEX IN WHEAT	78.75	11	866
CORN	178.50	34	6,069
ARP	0.00		
FLEX IN WHEAT	31.50	11	347
GRAIN SORGHUM	267.75	12	3,213
ARP	0.00		
FLEX IN WHEAT	47.25	11	520
HAYGRAZER	190.00		
ROADS, HOMESTEAD	40.00		
TOTAL	1,280.00		15,923
ACRE FEET PER ACRE OF WATER RIGHTS			1.04

TABLE 2. Basic cost information for Union County, Projected 2008.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$7.45
General & Irrigators		\$/hour	\$6.60
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.63
Phosphate (P205)		\$/pound	\$0.55
Seed:			
Wheat		\$/pound	\$0.28
Corn for Grain		\$/bag	\$115.50
Grain Sorghum		\$/pound	\$0.89
Haygrazer/Millet		\$/pound	\$0.28
Natural gas (service charge)		\$/MCF	\$3.25
Diesel fuel		\$/month	\$10.00
Gasoline		\$/gallon	\$3.05
Electricity		\$/gallon	\$2.80
LP Gas		cents/KwHr	7.11
		\$/gallon	\$2.60
Baling Twine		\$/roll	\$0.29
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	7.75%
Land Interest Rate		percent	7.75%
Equipment Interest Rate		percent	7.75%
Real Interest Rate		percent	3.00%
Land Taxes		\$27.00 /acre	\$0.28
Personal Property Tax Rate	- NR	\$/(\$1,000)	(Assessed Value) \$30.72
	- R		\$28.14
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 Union County, Projected 2008.

Item			
Electricity (Domestic & Shop)		\$448.00 per month	\$5,376
Telephone		\$218.40 per month	\$2,621
Accounting & Legal			\$3,310
Misc. Supplies & Hand Tools			\$4,015
Pickup and Auto			
miles	34,720	@ \$0.415 per mile	\$14,409
Insurance			
- general liability (non-employee)			\$4,127
- fire/theft			\$2,094
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$1,747
Dues, fees, publications			\$403
Farmstead Equipment			\$263
Total			\$44,376
Total per planted acre			\$34.72
Total per dryland acre			\$6.94

TABLE 4 - Pumping costs and data for irrigation wells, Union County, Oregon 1988

WELL DATA	
DEEPAK P2	36
SPRINKLER	180
DEPTH CHARACTERISTICS	
DEPTH	180
DOWN DOWN	30
TOTAL HEAD	210
LOSS	80
NET HEAD	130
EFFICIENCY FACTOR	0.60
ELECTRICITY	\$2.41
NATURAL GAS	0.10
L.P. GAS	0.30
FUEL COST PER UNIT	
ELECTRICITY	\$11.10/1000 GPH
NATURAL GAS	\$1.25/1000 GPH
L.P. GAS	\$4.50/1000 GPH
DEEPAK	\$0.35/1000 GPH
WELL PUMPING COST	
ELECTRIC WELLS	
COST PER HOUR	\$5.21
COST PER ACRE INCH	\$3.38
NATURAL GAS WELLS	
COST PER HOUR	\$8.46
COST PER ACRE INCH	\$5.29
L.P. GAS WELLS	
COST PER HOUR	\$17.25
COST PER ACRE INCH	\$11.02
DEEPAK WELLS	
COST PER HOUR	\$16.14
COST PER ACRE INCH	\$10.09

TABLE 5 - Equipment estimates for a 1200 acre quarter irrigated farm with above average management, Union County, Oregon 1988

EQUIPMENT	ANNUAL HOURS	TOTAL VALUE	VARIABLE COSTS					FIXED COSTS		TOTAL PER ACRE
			FUEL PER HOUR	REPAIRS PER HOUR	OPERATOR PER HOUR	DEPRECIATION PER YEAR	TAXES PER YEAR			
TRACTOR 85 HP	150	\$18,000	\$2,880	\$307	\$175	\$1,077	\$1,152	\$177	\$846	
TRACTOR 145 HP	200	\$45,000	\$7,200	\$780	\$450	\$2,550	\$2,664	\$414	\$1,800	
TRACTOR 185 HP	200	\$60,000	\$9,600	\$1,040	\$580	\$3,260	\$3,376	\$504	\$2,256	
COMBINE 145 HP	100	\$28,250	\$4,520	\$497	\$273	\$1,550	\$1,627	\$244	\$1,104	
ROWLANDS 8 ROW	30	\$3,000	\$480	\$57	\$32	\$180	\$189	\$28	\$127	
ROWLANDS 12 ROW	112	\$11,200	\$1,792	\$196	\$112	\$616	\$647	\$96	\$433	
ROWLANDS 14 FT	20	\$2,000	\$320	\$37	\$21	\$110	\$115	\$17	\$77	
ROWLANDS 18 FT	10	\$1,000	\$160	\$19	\$11	\$55	\$58	\$9	\$39	
ROWLANDS 24 FT	5	\$500	\$80	\$9	\$5	\$27	\$28	\$4	\$19	
ROWLANDS 30 FT	3	\$300	\$48	\$5	\$3	\$16	\$17	\$2	\$11	
ROWLANDS 36 FT	2	\$200	\$32	\$3	\$2	\$11	\$11	\$1	\$6	
ROWLANDS 42 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 48 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 54 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 60 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 66 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 72 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 78 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 84 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 90 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 96 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 102 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 108 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 114 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 120 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 126 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 132 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 138 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 144 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 150 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 156 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 162 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 168 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 174 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 180 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 186 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 192 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 198 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 204 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 210 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 216 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 222 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 228 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 234 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 240 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 246 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 252 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 258 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 264 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 270 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 276 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 282 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 288 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 294 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 300 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 306 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 312 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 318 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 324 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 330 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 336 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 342 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 348 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 354 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 360 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 366 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 372 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 378 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 384 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 390 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 396 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 402 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 408 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 414 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 420 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 426 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 432 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 438 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 444 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 450 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 456 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 462 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 468 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 474 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 480 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 486 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 492 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 498 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 504 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 510 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 516 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 522 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 528 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 534 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 540 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 546 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 552 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 558 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 564 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 570 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 576 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 582 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 588 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 594 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 600 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 606 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 612 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 618 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 624 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 630 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 636 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 642 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 648 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 654 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 660 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 666 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 672 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 678 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 684 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 690 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 696 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 702 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 708 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 714 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 720 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 726 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 732 FT	1	\$100	\$16	\$1	\$1	\$5	\$5	\$0	\$3	
ROWLANDS 738										

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2008.
Planting dates: August 15 - November 15
Harvesting dates: July 1 - July 15

ITEM	PRICE	YIELD	BASE					TOTAL
GROSS RETURNS								
WHEAT	\$9.50	80.00	BUSHEL					\$760.00
DIRECT PAYMENT	\$0.00	80.00	BUSHEL	0.85				\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00
GRAZING	\$37.50	1.00	ACRE					\$37.50
TOTAL								\$797.50
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.28	100	LBS	\$28.00				\$28.00
MANURE	\$2.70	8	TON	\$21.60				\$21.60
LIVESTOCK FAC & EQUIP						\$5.00		\$5.00
PUMP WATER*		11	AC. IN.					\$0.08
CROP INSURANCE	\$0.08							\$0.08
SUBTOTAL				\$49.60		\$5.00		\$54.68
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.52	\$2.21	\$1.27	\$1.92	\$5.93
CHISEL	185 HP	0.09 HR		\$0.67	\$2.84	\$0.70	\$1.92	\$6.13
DISC	185 HP	0.07 HR		\$0.52	\$2.21	\$1.27	\$1.92	\$5.93
DRILL	126 HP	0.12 HR		\$0.89	\$3.02	\$0.68	\$2.42	\$7.02
IRRIGATE (7X)		0.70 HR		\$4.62	\$24.58	\$0.00	\$3.18	\$32.38
SUBTOTAL		1.05 HR		\$7.23	\$34.87	\$3.93	\$11.36	\$57.39
HARVEST OPERATIONS								
COMBINE	GRAIN TABLE	0.14 HR		\$1.04	\$3.57	\$0.55	\$9.09	\$14.25
GRAIN CART	93 HP	0.14 HR		\$1.04	\$2.39	\$0.29	\$1.57	\$5.29
HAUL	SEMI	0.14 HR		\$1.04	\$2.24	\$0.39	\$4.28	\$7.96
SUBTOTAL		0.42 HR		\$0.00	\$3.13	\$8.20	\$14.95	\$27.51
OVERHEAD EXPENSES								
DOWNTIME		0.19 HR		\$1.43				\$1.43
EMPLOYEE BENEFITS				\$1.86				\$1.86
INSURANCE				\$0.21				\$0.21
LAND TAXES							\$0.28	\$0.28
SUPERVISION AND MANAGEMENT				\$56.91				\$56.91
OTHER EXPENSES				\$34.72				\$34.72
SUBTOTAL		0.19 HR		\$34.93	\$60.21		\$0.28	\$95.41
TOTAL OPERATING EXPENSES		1.66 HR		\$84.53	\$70.56	\$43.06	\$5.17	\$235.00
NET OPERATING PROFIT								\$562.50
INTEREST ON OPERATING CAPITAL		(\$35.33 @	7.75%)				\$2.74
INTEREST ON EQUIPMENT INVESTMENT								\$14.47
RETURN TO LAND AND RISK								\$545.30

* Pump water costs are shown under irrigation in the preharvest operations sections.

BUDGET SUMMARY

GROSS RETURN		\$797.50	
VARIABLE OPERATING EXPENSES	\$132.76		
RETURN OVER VARIABLE EXPENSES	\$664.74	(GROSS MARGIN)	
FIXED EXPENSES	\$31.59		
NET FARM INCOME	\$633.15	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$70.56		
NET OPERATING PROFIT	\$562.59	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$17.21		
RETURN TO LAND AND RISK		\$545.38	

TABLE 7. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2008.
 Planting dates: April 15 - May 15
 Harvesting dates: October 1 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
CORN FOR GRAIN	\$4.10	200.00 BUSHELS		\$820.00
DIRECT PAYMENT	\$0.00	200.00 BUSHELS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 BUSHELS		\$0.00
GRAZING	\$20.00	1.00 ACRE		\$20.00
TOTAL				\$840.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.44	26 000	\$37.54		\$37.54
NITROGEN (N)	\$0.63	220 LBS	\$138.60		\$138.60
PHOSPHATE (P2O5)	\$0.55	70 LBS	\$38.50		\$38.50
POTASSIUM (K-MAG)	\$0.12	300 LBS	\$34.50		\$34.50
INSECTICIDE	\$20.48	3 ACRE	\$61.44		\$61.44
HERBICIDE	\$28.16	1 ACRE	\$28.16		\$28.16
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		34 AC. IN.			
CROP INSURANCE	\$0.28				\$0.28
SUBTOTAL			\$338.74	\$5.00	\$344.02

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.52	\$2.21	\$1.27	\$1.92	\$5.93
CHISEL	185 HP	0.09 HR		\$0.67	\$2.84	\$0.70	\$1.92	\$6.13
DISC & SPRAY	185 HP	0.10 HR		\$0.75	\$3.16	\$1.89	\$3.23	\$9.02
PLANTER	126 HP	0.12 HR		\$0.89	\$3.02	\$0.79	\$4.06	\$8.77
ROLLING CULT (2X)	126 HP	0.20 HR		\$1.49	\$5.03	\$1.79	\$4.29	\$12.60
SIDEDRESS	185 HP	0.17 HR		\$1.27	\$5.37	\$0.98	\$3.26	\$10.88
IRRIGATE (16X)		1.60 HR		\$10.56	\$75.98	\$0.00	\$9.83	\$96.37
SUBTOTAL		2.35 HR		\$16.15	\$97.62	\$7.43	\$28.50	\$149.70

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	CORN HEAD	0.20 HR		\$1.49	\$5.09	\$0.93	\$22.16	\$29.67
GRAIN CART	93 HP	0.20 HR		\$1.49	\$3.41	\$0.41	\$2.25	\$7.56
HAUL	SEMI	0.20 HR		\$1.49	\$3.20	\$0.56	\$6.12	\$11.37
SUBTOTAL		0.60 HR	\$0.00	\$4.47	\$11.71	\$1.91	\$30.53	\$48.61

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.30 HR		\$2.20				\$2.20
EMPLOYEE BENEFITS			\$3.71				\$3.71
INSURANCE		\$0.41					\$0.41
LAND TAXES						\$0.28	\$0.28
SUPERVISION AND MANAGEMENT			\$62.04				\$62.04
OTHER EXPENSES		\$34.72					\$34.72
SUBTOTAL	0.30 HR	\$35.14	\$67.95			\$0.28	\$103.36

TOTAL OPERATING EXPENSES 3.25 HR \$373.87 \$88.57 \$109.33 \$9.34 \$64.30 \$645.69

NET OPERATING PROFIT \$194.31

INTEREST ON OPERATING CAPITAL (\$206.32 @ 7.75%) \$15.99
 INTEREST ON EQUIPMENT INVESTMENT \$32.85

RETURN TO LAND AND RISK \$145.47

* Pump water costs are shown under irrigation in the preharvest operations sections.

BUDGET SUMMARY

GROSS RETURN		\$840.00	
VARIABLE OPERATING EXPENSES	\$492.54		
RETURN OVER VARIABLE EXPENSES	\$347.46	(GROSS MARGIN)	
FIXED EXPENSES	\$64.30		
NET FARM INCOME	\$283.16	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$88.57		
NET OPERATING PROFIT	\$194.59	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$48.84		
RETURN TO LAND AND RISK	\$145.75		

TABLE 8. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2008.
 Planting dates: May 15 - June 15
 Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE						TOTAL
GROSS RETURNS									
GRAIN SORGHUM	\$7.70	45.00 CWT							\$346.50
DIRECT PAYMENT	\$0.00	45.00 CWT	0.85						\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT							\$0.00
GRAZING	\$5.00	1.00 ACRE							\$5.00
TOTAL									\$351.50
PURCHASED INPUTS									
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
SEED	\$0.89	5 LBS	\$4.45					\$4.45	
NITROGEN (N)	\$0.63	150 LBS	\$94.50					\$94.50	
PHOSPHATE (P205)	\$0.55	50 LBS	\$27.50					\$27.50	
HERBICIDE	\$28.16	1 ACRE	\$28.16					\$28.16	
LIVESTOCK FAC & EQUIP PUMP WATER*		12 AC. IN.					\$5.00	\$5.00	
CROP INSURANCE	\$0.19							\$0.19	
SUBTOTAL			\$154.61				\$5.00	\$159.80	
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	185 HP	0.07 HR		\$0.52	\$2.21	\$1.27	\$1.92	\$5.93	
CHISEL	185 HP	0.09 HR		\$0.67	\$2.84	\$0.70	\$1.92	\$6.13	
DISC & SPRAY	185 HP	0.10 HR		\$0.75	\$3.16	\$1.89	\$3.23	\$9.02	
PLANTER	126 HP	0.12 HR		\$0.89	\$3.02	\$0.79	\$4.06	\$8.77	
ROLLING CULT.	126 HP	0.10 HR		\$0.75	\$2.52	\$0.89	\$2.15	\$6.30	
SIDEDRESS	185 HP	0.17 HR		\$1.27	\$5.37	\$0.98	\$3.26	\$10.88	
IRRIGATE (6X)		0.60 HR		\$3.96	\$26.82	\$0.00	\$3.47	\$34.25	
SUBTOTAL		1.25 HR		\$8.80	\$45.94	\$6.54	\$20.00	\$81.28	
HARVEST OPERATIONS									
COMBINE	GRAIN TABLE	0.14 HR		\$1.04	\$3.57	\$0.55	\$9.09	\$14.25	
GRAIN TABLE	93 HP	0.14 HR		\$1.04	\$2.39	\$0.29	\$1.57	\$5.29	
HAUL	2 TON	0.14 HR		\$1.04	\$1.79	\$0.06	\$7.85	\$10.74	
SUBTOTAL		0.42 HR	\$0.00	\$3.13	\$7.75	\$0.90	\$18.52	\$30.29	
OVERHEAD EXPENSES									
DOWNTIME		0.23 HR		\$1.68				\$1.68	
EMPLOYEE BENEFITS				\$2.15				\$2.15	
INSURANCE			\$0.24				\$0.24		
LAND TAXES							\$0.28		
SUPERVISION AND MANAGEMENT				\$25.87				\$25.87	
OTHER EXPENSES			\$34.72				\$34.72		
SUBTOTAL		0.23 HR	\$34.96	\$29.69				\$0.28	
TOTAL OPERATING EXPENSES		1.90 HR	\$189.57	\$41.62	\$53.69	\$7.44	\$43.79	\$336.29	
NET OPERATING PROFIT								\$15.21	
INTEREST ON OPERATING CAPITAL		(\$91.24 @ 7.75%)						\$7.07	
INTEREST ON EQUIPMENT INVESTMENT								\$20.57	
RETURN TO LAND AND RISK								(\$12.43)	

* Pump water costs are shown under irrigation in the preharvest operations sections.

BUDGET SUMMARY

GROSS RETURN		\$351.50	
VARIABLE OPERATING EXPENSES	\$250.69		
RETURN OVER VARIABLE EXPENSES		\$100.81	(GROSS MARGIN)
FIXED EXPENSES	\$43.79		
NET FARM INCOME		\$57.02	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$41.62		
NET OPERATING PROFIT		\$15.40	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$27.64		
RETURN TO LAND AND RISK		(\$12.24)	

TABLE 9. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2008.
 Planting dates: June 1 - June 15
 Harvesting dates: September 1 - September 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
HAY	\$115.00	1.50 TONS (STACKED)						\$172.50
TOTAL								\$172.50
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.28	6.00 LBS	\$1.68					\$1.68
HERBICIDE	\$14.79	1.00 ACRE	\$14.79					\$14.79
BALING TWINE	\$0.29	0.13 ROLL	\$0.04					\$0.04
SUBTOTAL								\$16.51
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.09 HR		\$0.67	\$2.84	\$0.70	\$1.92	\$6.13
DISC	185 HP	0.07 HR		\$0.52	\$2.21	\$1.27	\$1.92	\$5.93
DRILL	126 HP	0.12 HR		\$0.89	\$3.02	\$0.68	\$2.42	\$7.02
SUBTOTAL								\$19.08
HARVEST OPERATIONS								
SWATHER		0.16 HR		\$1.19	\$1.83	\$0.09	\$8.41	\$11.52
BALER	126 HP	0.17 HR		\$1.27	\$4.28	\$0.71	\$5.28	\$11.53
SUBTOTAL								\$23.06
OVERHEAD EXPENSES								
DOWNTIME		0.15 HR		\$1.14				\$1.14
EMPLOYEE BENEFITS				\$0.82				\$0.82
INSURANCE			\$0.09					\$0.09
LAND TAXES							\$0.28	\$0.28
SUPERVISION AND MANAGEMENT				\$12.38				\$12.38
OTHER EXPENSES			\$6.94					\$6.94
SUBTOTAL								\$21.65
TOTAL OPERATING EXPENSES								\$80.30
NET OPERATING PROFIT								\$92.20
INTEREST ON OPERATING CAPITAL		(\$11.51 @ 7.75%)						\$0.89
INTEREST ON EQUIPMENT INVESTMENT								\$13.63
RETURN TO LAND AND RISK								\$77.68

* Pump water costs are shown under irrigation in the preharvest operations sections.

BUDGET SUMMARY

GROSS RETURN		\$172.50	
VARIABLE OPERATING EXPENSES	\$41.19		
RETURN OVER VARIABLE EXPENSES	\$131.31	(GROSS MARGIN)	
FIXED EXPENSES	\$20.23		
NET FARM INCOME	\$111.08	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$18.88		
NET OPERATING PROFIT	\$92.20	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$14.53		
RETURN TO LAND AND RISK		\$77.68	

TABLE 10. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County
Projected 2008.

	WHEAT	CORN FOR GRAIN	GRAIN SORGHUM	HAYGRAZER & MILLET
	BU	BU	CWT	(Dryland) TONS
PRIMAR YIELD	80.00	200.00	45.00	1.50
PRIMARY PRICE	\$9.50	\$4.10	\$7.70	\$115.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME	\$37.50	\$20.00	\$5.00	\$0.00
GROSS RETURN	\$797.50	\$840.00	\$351.50	\$172.50
CASH OPERATING EXPENSES				
SEED	\$28.00	\$37.54	\$4.45	\$1.68
FERTILIZER	\$21.60	\$211.60	\$122.00	
CHEMICALS		\$89.60	\$28.16	\$14.79
CROP INSURANCE	\$0.08	\$0.28	\$0.19	
OTHER PURCHASED INPUTS				\$0.04
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$18.48	\$33.34	\$26.87	\$14.18
FUEL-IRRIGATION	\$24.58	\$75.98	\$26.82	
REPAIRS	\$5.17	\$9.34	\$7.44	\$3.47
CUSTOM CHARGES				\$0.00
LAND TAXES	\$0.28	\$0.28	\$0.28	\$0.28
OTHER EXPENSES	\$34.93	\$35.14	\$34.96	\$7.04
TOTAL CASH EXPENSES	\$133.12	\$493.09	\$251.16	\$41.47
RETURN OVER CASH EXPENSES	\$664.38	\$346.91	\$100.34	\$131.03
FIXED EXPENSES	\$31.31	\$64.03	\$43.52	\$19.95
TOTAL EXPENSES	\$164.43	\$557.12	\$294.67	\$61.42
NET FARM INCOME	\$633.07	\$282.88	\$56.83	\$111.08
LABOR AND MANAGEMENT COSTS	\$70.56	\$88.57	\$41.62	\$18.88
NET OPERATING PROFIT	\$562.50	\$194.31	\$15.21	\$92.20
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL	\$2.74	\$15.99	\$7.07	\$0.89
INTEREST ON EQUIPMENT INVESTMENT	\$14.47	\$32.85	\$20.57	\$13.63
TOTAL CAPITAL COSTS	\$17.21	\$48.84	\$27.64	\$14.53
RETURN TO LAND AND RISK	\$545.30	\$145.47	(\$12.43)	\$77.68
Flex Computation	591.08	242.35	51.65	

TABLE 11. Whole farm summary, Union County,
Projected 2008.

GROSS RETURNS		
WHEAT	604 ACRES	
CROP		\$458,850
GRAZING		\$22,641
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	179 ACRES	
CROP		\$146,370
GRAZING		\$3,570
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	268 ACRES	
CROP		\$92,775
GRAZING		\$1,339
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
HAYGRAZER/MILLET	190 ACRES	
CROP		\$32,775
GROSS RETURN		<u>\$758,320</u>
CASH OPERATING EXPENSES		
SEED		\$25,116
FERTILIZER		\$83,477
CHEMICALS		\$26,344
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$7
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$26,997
FUEL-IRRIGATION		\$35,585
REPAIRS		\$7,437
CUSTOM CHARGES		\$0
LAND TAXES		\$343
OTHER EXPENSES		\$38,058
TOTAL CASH EXPENSES		<u>\$243,515</u>
RETURN OVER CASH EXPENSES		\$514,805
FIXED EXPENSES		\$45,775
TOTAL EXPENSES		\$289,290
NET FARM INCOME		\$469,030
LABOR AND MANAGEMENT COSTS		\$73,143
NET OPERATING PROFIT		\$395,886
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$6,570
INTEREST ON EQUIPMENT INVESTMENT		\$22,697
TOTAL CAPITAL COSTS		<u>\$29,267</u>
RETURN TO LAND AND RISK		<u>\$366,619</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$347,419	43.45%
\$750 /ACRE	\$337,819	32.16%
\$1,000 /ACRE	\$328,219	25.52%
\$1,250 /ACRE	\$318,619	21.16%
\$1,500 /ACRE	\$309,019	18.07%

* 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)