# Crop Enterprise Budget Corn for Grain, Wheatland Area

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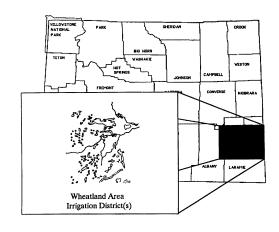
This enterprise budget estimates typical costs and returns for corn for grain in the Wheatland area of Wyoming. It should be used only as a guide. The data presented are not taken from an actual farm. The major assumptions in this budget are presented below.

#### LAND

The budget is based on a 500-acre farm, with 62.5 acres of corn for grain grown each year. Other enterprises included on this farm are: alfalfa establishment, 17 acres; alfalfa hay, 100 acres; sugar beets, 100 acres; dry beans, 75 acres; corn for silage, 62.5 acres; and setaside program, 23 acres. The remaining 60 acres include roadways, fence lines, and farmsteads. Owned land is valued at \$750 per acre for flood-irrigated land and \$850 per acre for center pivot-irrigated land. Leased land is rented on a crop-share basis. With corn for grain, a 33 percent share of gross revenue is paid to the landowner. In turn, the landowner pays for all purchased irrigation water and 33 percent of the fertilizer, herbicide, and pesticide applied to the crop. In addition, the landowner pays \$1.50 per ton of yield for hauling the grain.

#### **LABOR**

Labor is provided by the operator and one full-time employee. All labor, including operator labor, is valued at \$5 per hour plus 7.65 percent to cover social security and federal withholding taxes. Labor charges for the owner/operator represent an opportunity cost for the time spent in this enterprise. Some part-time labor is used on the farm for labor-intensive operations such as harvest.



#### CAPITAL

The operator provides 50 percent of the long-term capital and 50 percent of the operating capital for this enterprise. Fifty percent of the long-term capital is borrowed at an interest rate of 9.75 percent APR (Annual Percentage Rate). Fifty percent of the operating capital is borrowed at an interest rate of 9 percent APR. The interest rates used here are for short-term planning. Real interest rates should be used for accurate long-term planning.

# MACHINERY, EQUIPMENT, AND BUILDINGS

A complete list of machinery, equipment, and buildings used in this enterprise and the associated values are provided in Table 1. All resources are assumed to be half depreciated. Estimated operating and ownership costs are given in Table 3. Table 3 lists only the resources used in this enterprise. Other resources used on the farm are not included. However, the reader should note that the resources listed in Tables 1 and 3 may also be used in other enterprises on the farm.

Each irrigated acre on the farm is assumed to be irrigated by a fraction of the total irrigation system. The irrigation water provided by each irrigation system is broken down as follows: 30 percent center pivot, 25 percent concrete ditch and tubes, and 45 percent gated pipe (plastic and aluminum, 50 percent each). This method was employed because crops will normally be rotated onto all farmed land over time. Table 2 estimates the

cost per acre-inch for providing irrigation water with each irrigation system.

#### **OPERATIONS**

Operations related to production of corn for grain are listed in chronological order in the enterprise budget. The ground is prepared in early April, including fertilization. The corn is planted in early May. Irrigation is started in early July, with a total of four irrigations per growing season. A total of 32 acre-inches of water is delivered per acre of corn.

Fifty percent of the corn crop is insured against weather damage/loss. Corn for grain harvest begins in late October. The budgeted yield is 120 bushel per acre (56 lbs/bu). Some of the grain harvest is stored on the farm in owned storage bins for marketing later in the year.

#### **ENTERPRISE BUDGET**

Economic costs and returns for corn for grain production are summarized by operation in the enterprise budget. Costs are broken down by stage of production. General overhead and operator management have been calculated at 5 percent and 10 percent of all cash costs, respectively.

Costs and returns for the crop share-lease arrangement are also summarized in the budget. Costs paid in whole or in part by the landowner are listed in the landowner column. The tenant column describes the tenant's share of the appropriate cost and return items. The far right column has been provided to calculate changes from this base budget for your operation.

Government program deficiency payments have been entered as a revenue item in the corn for grain budget. This revenue cannot be expected unless the producer fully participates in the program. Full participation includes idling 15 percent of the crop acreage base. (See setaside program enterprise budget.) In turn, a program payment will be made based on a historical yield base at the current program price. This corn for grain budget assumes a 100 bushel historic yield base and a program payment of \$0.5892 per bushel.

#### **SUMMARY**

Gross income for the corn for grain enterprise is estimated at \$327.72 per acre. Total variable costs are estimated at \$287.52 per acre, with total fixed costs at \$200.67 per acre. The total of all costs for corn for grain is estimated at \$488.19 per acre, leaving a net projected return of (\$160.47) per acre. The net projected returns for the share-lease arrangement are (\$46.22) per acre for the landowner and (\$114.25) per acre for the tenant. (The returns for the landowner share at \$46.22 includes a \$1.50 per ton per ton charge for hauling the harvested corn.

TABLE 1. Machinery, Equipment, and Building Value and Use Assumptions

			Current		Tot	cal				
		Current	Market	Salvage	Def	ined			Remai	ining
Resource	Name	List Price	Value	Value	Annua	al Use	Useful	Life	L	ife
=========	=======	:=======	=======	=======					:====::	=====
100 HP TRACTOR	2WD	\$45,054	\$26,562	\$8,070	635	Hours	10,160	Hours	5,080	Hours
140 HP TRACTOR	MFD	\$59,492	\$33,563	\$7,634	496	Hours	9,920	Hours	4,960	Hours
70 HP TRACTOR	2WD	\$27,245	\$15,370	\$3,496	323	Hours	6,460	Hours	3,230	Hours
COMBINE 100 BU		\$70,835	\$37,387	\$3,938	69	Hours	1,380	Hours	690	Hours
6-ROW CULTIVATO	R	\$7,253	\$4,552	\$1,850	284	Hours	1,988	Hours	994	Hours
6-ROW PLANTER		\$6,785	\$3,862	\$940	94	Hours	1,128	Hours	564	Hours
CORN HEAD	4-ROW	\$11,048	\$5,831	\$614	32	Hours	640	Hours	320	Hours
FERTLIZER SPRED	RLEASED				42	Hours	504	Hours	252	Hours
FERTLIZER TRAIL	RLEASED				21	Hours	252	Hours	126	Hours
FIELD CULTIVATO	R15 FT	\$4,152	\$2,184	\$216	21	Hours	420	Hours	210	Hours
PIPE TRAILER	30 FT	\$1,416	\$745	\$74	47	Hours	940	Hours	470	Hours
PLOW 2-WAY	5-18'S	\$6,860	\$3,632	\$404	114	Hours	2,166	Hours	1,083	Hours
ROLLER HARROW		\$7,973	\$4,369	\$765	134	Hours	2,010	Hours	1,005	Hours
ROTARY HOE	15 FT	\$2,780	\$1,462	\$145	21	Hours	420	Hours	210	Hours
SPRAYER 12-ROW	PULL	\$2,509	\$1,367	\$225	75	Hours	1,125	Hours	563	Hours
SUBSOILER	5-SHANK	\$2,484	\$1,307	\$129	21	Hours	420	Hours	210	Hours
TANDEM DISK	21 FT	\$11,959	\$6,291	\$623	68	Hours	1,360	Hours	680	Hours
WEED BURNER		\$53	\$28	\$3	10	Hours	200	Hours	100	Hours
1/2 TON PICKUP	2WD	\$14,279	\$8,967	\$3,656	10,000	Miles	75,000	Miles	37,500	Miles
1/2 TON PICKUP	4WD	\$16,190	\$10,167	\$4,145	10,000	Miles	75,000	Miles	37,500	Miles
2 TON TRUCK	#1	\$11,605	\$6,055	\$505	2,276	Miles	50,072	Miles	25,036	Miles
2 TON TRUCK	#2	\$9,494	\$4,890	\$287	2,250	Miles	56,250	Miles	28,125	Miles
CENTER PIVOT		\$29,337	\$16,171	\$3,004	2,929	AcIns	43,935	AcIns	21,968	AcIns
CONCRETE DITCH		\$21,814	\$10,907	\$0	3,975	AcIns	99,375	AcIns	49,688	AcIns
GATED PIPE		\$21,422	\$11,808	\$2,194	7,233	AcIns	108,495	AcIns	54,248	AcIns
GRND WATER WELL		\$10,530	\$5,424	\$318	969	AcIns	24,225	AcIns	12,113	AcIns
GRAIN BIN-1500B	U#1		\$1,500	\$300			30	Years	15	Years
GRAIN BIN-1500B	U#2		\$1,500	\$300			30	Years	15	Years
METAL SHOP	20 X 20		\$10,000	\$1,000			30	Years	15	Years
POLE BARN	40 X 80		\$16,500	\$1,650			30	Years	15	Years

**TABLE 2. Irrigation System Costs per Acre-Inch Delievered** 

	Center Pivot	Concrete Ditch	Gated Pipe	Ground Water Well
VARIABLE COSTS	========	========	========	========
Fuel Cost	\$0.81	\$	\$	\$2.22
Repair and Maintenance (off-farm)	0.69		0.06	0.27
Owner Operation Labor	0.05			
Hired Operation Labor		0.29	0.09	
Purchased Water		0.64	0.64	
FIXED COSTS				
Taxes 0.07	0.07	0.04	0.04	0.11
Interest on Investment	0.54	0.24	0.28	0.95
Depreciation	0.68	0.24	0.32	0.55
Insurance	0.05	0.02	0.02	0.07
=======================================	=======	=======	========	========
TOTAL COST PER ACRE-INCH DELIVERED	\$2.89	\$1.46	\$1.45	\$4.17

# Enterprise Budget Economic Costs and Returns per Acre Corn for Grain - Wheatland Area 62.5-Acre Enterprise

RETURNS SECTION						
				Crop-	-Share	-
			Owner-	Land-		
			Operator	owner	Tenant	
			100%	33%	67%	Your
GROSS INCOME Description	Quantity Unit	\$/Unit	Total	Total	Total	Return
	=======================================	======			======	======
GRAIN CORN	120.00 BUSHELS	2.24	\$268.80	\$83.66	\$185.14	
DEFICIENCY PAYMENT - CORN	100.00 BUSHELS	0.59	\$58.92	\$19.44	\$39.48	
	=======================================	======		=======		======
Total GROSS Income			\$327.72	\$103.10	\$224.62	

				M a t	eria	l s		Materials	-	Crop-S	Share	
VARIABLE COST Desc			per Acro MACHINER		# Units Per Acre	Unit Type	\$/unit	Total Cost Per Acre	Owner- Operator	Land- owner	Tenant	Your Cost
		=====	======		= =======	=====			======	======	======	=====
**ANNUAL** METAL SHOP - 2	0 × 20								1.71		1.71	
POLE BARN - 40									0.99			
GRAIN BIN-1500									2.07			
GRAIN BIN-1500									2.07			
1/2 TON PICKUP		2 06	3.44						7.40			
1/2 TON PICKUP		3.90	3.86						7.82			
GENERAL OVERHE									11.49			
OPERATOR MANAG									22.99			
Total ANNUAL									56.54	0.00	56.54	
**PRE-PLANT**												
CLEAN DITCHES	Operation	0.26	0.02						0.28		0.28	
SPREAD FERTLIZER	Operation	0.59	0.40	FERTLIZER SPREDR	1.000	Acre	0.50	20.30	21.29	6.70	14.59	
				11-52-0	0.075	TON	264.00					
INJECT AMMONIA	Operation	0.99	2.10	FERTLIZER TRAILR 32-0-0	1.000	Acre	0.50	14.20	17.29	4.69	12.60	
DISK	Operation	0 74		52 0 0	0.030	1014	2/4.00		2.76		2.76	
	Operation								8.38		8.38	
ROLLER HARROW									3.49			
	Operation			PRADICANE	0 500	CAT	21 70	28.00				
SPRAY CORN	operation	0.99		SUTAN	0.500 0.500	GAL	24.29	28.00	29.99	9.24	20.75	
FIELD CULTIVATE	Operation	0.99	2.24						3.23		3.23	
ROLLER HARROW	Operation	1.32	2.57						3.89			
Total PRE-PLANT									90.60	20.63	69.97	
**PLANT**												
CROP INSURANCE	CORN							2.70	2.70		2.70	
PLANT CORN		1.97	3.80	CORN SEED	20 000	LBS	1.26	36.72	42.49		42.49	
	Operation											
				THIMET	6.547	LBS	1.76					
				THIMET	6.547	LBS	1.76			0.00		
Total PLANT				THIMET	6.547	LBS	1.76					
Total PLANT				THIMET	6.547	LBS	1.76		45.19	0.00	45.19	
Total PLANT **GROW CORN** ROTARY HOE	Operation	0.99	0.80	THIMET	6.547	LBS	1.76		45.19	0.00	45.19	
Total PLANT **GROW CORN** ROTARY HOE		0.99	0.80	THIMET	0.125	LBS 	1.76  8.65		45.19	0.00	45.19	
Total PLANT **GROW CORN** ROTARY HOE SPRAY CORN	Operation Operation	0.99	0.80	FHIMET  2,4-D  BANVEL	6.547	LBS 	1.76  8.65		45.19 1.79 7.13	0.00	45.19 1.79 5.43	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS	Operation Operation	0.99	0.80 1.00:	FHIMET  2,4-D  BANVEL	0.125	LBS 	1.76  8.65		1.79 7.13	0.00	45.19 1.79 5.43 4.89	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS	Operation Operation Operation Operation	0.99 0.99 1.48 1.18	0.80 1.00 3.41 2.73	FHIMET  2,4-D  BANVEL	0.125	LBS 	1.76  8.65		1.79 7.13 4.89 3.91	0.00  1.70 	45.19 1.79 5.43 4.89 3.91	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE	Operation Operation Operation Operation	0.99 0.99 1.48 1.18	0.80 1.00 3.41 2.73 0.15	FHIMET  2,4-D  BANVEL	0.125	LBS 	1.76  8.65		45.19 1.79 7.13 4.89 3.91 0.56	0.00  1.70 	1.79 5.43 4.89 3.91 0.56	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT	Operation Operation Operation Operation	0.99 0.99 1.48 1.18	0.80 1.00 3.41 2.73 0.15 2.76	FHIMET  2,4-D  BANVEL	0.125	LBS 	1.76  8.65		45.19 1.79 7.13 4.89 3.91 0.56 2.76	0.00	45.19 1.79 5.43 4.89 3.91 0.56 2.76	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41	0.80 1.00 3.41 2.73 0.15 2.76 1.57	THIMET  2,4-D BANVEL	0.125	LBS 	1.76  8.65	5.14	45.19 1.79 7.13 4.89 3.91 0.56 2.76 1.57	1.70	45.19 1.79 5.43 4.89 3.91 0.56 2.76 1.57	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41	0.80 1.00 3.41 2.73 0.15 2.76 1.57	THIMET  2,4-D  BANVEL  Purchased Water	0.125	LBS 	1.76  8.65	5.14	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21	0.00  1.70   1.53	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41	0.80 1.00: 3.41 2.73 0.15 2.76 1.57 0.00:	THIMET  2,4-D BANVEL	0.125	LBS 	1.76  8.65	5.14	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45	0.00  1.70   1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.00	THIMET  2,4-D  BANVEL  Purchased Water	0.125	LBS 	1.76  8.65	5.14	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85	0.00  1.70   1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09	0.80 1.00: 3.41 2.73 0.15 2.76 1.57 0.00: 0.26: 2.76 6.157	Purchased Water	0.125	LBS 	1.76  8.65	5.14 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57	0.00  1.70   1.53 2.78 	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH CONCRETE DITCH CONCRETE DITCH	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.00 1.57 0.26 1.57 0.00	Purchased Water	0.125	LBS 	1.76  8.65	1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21	0.00  1.70  1.53 2.78  1.53	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09	0.80 1.00: 3.41 2.73 0.15 2.76 1.57 0.00: 2.76 1.57 0.00: 0.26:	Purchased Water	0.125	LBS 	1.76  8.65	5.14 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45	0.00  1.70   1.53 2.78  1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GATED PIPE CENTER PIVOT	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.26 1.57 0.00 1.57 0.00 1.57 0.26 2.76	Purchased Water	0.125	LBS 	1.76  8.65	1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85	0.00  1.70   1.53 2.78  1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CORNETE DITCH GATED PIPE CENTER PIVOT	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09 0.68 0.41 0.09	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.00 1.57 0.00 1.57 0.26 1.57 0.26 1.57	Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water	0.125	LBS 	1.76  8.65	5.14 1.53 2.78 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85 1.57	0.00  1.70   1.53 2.78  1.53 2.78 	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68 0.67 2.85	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CORNETE DITCH GATED PIPE CENTER PIVOT	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09 0.68 0.41 0.09	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.00 1.57 0.00 1.57 0.26 1.57 0.26 1.57	Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water	0.125	LBS 	1.76  8.65	1.53 2.78 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85 1.57 2.21	0.00 1.70 1.53 2.78 1.53 2.78 1.53	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68	
Total PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED DITCH GATED DITCH GATED PIPE	Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09 0.68 0.41 0.09	0.80 1.00 3.41 2.73 0.15 2.76 1.57 0.00 2.76 1.57 0.00 2.76 1.57 0.00 1.57	Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water	0.125 0.062	GAL GAL	1.76  8.65 65.45	1.53 2.78 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85	0.00 1.70 1.53 2.78 1.53 2.78 1.53 2.78 1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68 0.67 2.85	
TOTAL PLANT  **GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED DITCH GATED PIPE	Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09 0.68 0.41 0.09	0.80 1.00 1.00 3.41 2.73 0.15 2.76 1.57 0.00 1.57 0.26 1.57 0.00 1.57 0.26 1.57 0.26 1.57	Purchased Water	0.125 0.062	GAL GAL	1.76  8.65 65.45	1.53 2.78 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85	0.00 1.70 1.53 2.78 1.53 2.78 1.53 2.78 1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68 0.67 2.85	
**GROW CORN** ROTARY HOE SPRAY CORN  CULTIVATE 6-ROWS CULTIVATE 6-ROWS LAY GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE CENTER PIVOT GRND WATER WELL CONCRETE DITCH GATED PIPE GATED PIPE	Operation Operation Operation Operation Operation Operation	0.99 0.99 1.48 1.18 0.41 0.68 0.41 0.09 0.68 0.41 0.09	0.80 1.00 1.00 3.41 2.73 0.15 2.76 1.57 0.00 1.57 0.26 1.57 0.00 1.57 0.26 1.57 0.26 1.57	Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water Purchased Water	0.125 0.062	GAL GAL	1.76  8.65 65.45	1.53 2.78 1.53 2.78	1.79 7.13 4.89 3.91 0.56 2.76 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85 1.57 2.21 3.45 2.85	0.00 1.70 1.53 2.78 1.53 2.78 1.53 2.78 1.53 2.78	1.79 5.43 4.89 3.91 0.56 2.76 1.57 0.68 0.67 2.85 1.57 0.68 0.67 2.85 1.57 0.68	

## Corn for Grain

			M a t				Materials		Crop-	-Share	
		s per Acre					Total Cost				Your
VARIABLE COST Description			Description					-	owner		Cost
CONCRETE DITCH	0.68		rchased Water		=====	======	1.53	2.21	1.53	0.68	======
GATED PIPE	0.41	0.26 Pu	rchased Water				2.78	3.45		0.67	
Total GROW CORN								65.26	21.17	44.09	
**HARVEST**											
PIKUP GATED PIPE Operation	0.41	0.15						0.56		0.56	
THRESH CORN Operation	2.96	9.01						11.97		11.97	
HAUL CROP 8TN/LD Operation	1.05	1.30						2.35		2.35	
HAUL CROP 8TN/LD Operation	1.05	1.30						2.35		2.35	
DISK Operation	0.74	2.02						2.76		2.76	
SUBSOIL Operation		2.54						3.53		3.53	
Total HARVEST								23.52	0.00	23.52	
Operating Interest								6.41		6.41	
otal VARIABLE COST	=====	====== =	-========	= =======	=====	======	=======	\$287.52	\$41.80	\$245.72	=====
ROSS INCOME minus VARIABLE	COST							\$40.20	\$61.30	(\$21 10)	

FIXED COSTS SECTION					
		-			
		Owner-	Land-		Your
FIXED COST Description	Unit	Operator	owner	Tenant	Cost
	====	=======	======	======	======
Machinery and Equipment:					
Taxes	Acre	7.21		7.21	
Insurance	Acre	7.97		7.97	
Long-term Interest	Acre	40.23		40.23	
Depreciation	Acre	37.74		37.74	
Buildings and Improvements:					
Taxes	Acre	1.06	1.06		
Insurance	Acre	0.68	0.68		
Long-term Interest	Acre	9.57	9.57		
Depreciation	Acre	5.74	5.74		
Irrigation:					
Taxes	Acre	1.32	1.32		
Insurance	Acre	0.72	0.72		
Long-term Interest	Acre	13.37	13.37		
Depreciation	Acre	14.14	14.14		
Land:					
Taxes	Acre	8.78	8.78		
Long-term Interest	Acre	52.13	52.13		
	====		======	======	======
Total FIXED Cost		\$200.67	\$107.52	\$93.15	
Total of ALL Cost		\$488.19	\$149.32	\$338.87	
+++++++++++++++++++++++++++++++++++++++	++++++	++++++++	+++++++	+++++++	++++++
NET PROJECTED RETURNS		(\$160.47)	(\$46.22)	(\$114.25)	

**TABLE 3. Machinery, Equipment, and Building Cost Calculations** 

				RESOURCE	E COST PE	R UNIT OF	USE						
				Varia	ble		Fix	ed			ENTERPR	ISE	
			Fuel	Operation	Repair		Deprec.	Taxes		Resource		Resource	
			and	Labor &	and	Hourly	and	and	TOTAL	Use	Cos	sts per Acı	re
Machine	e/Vehicle	Unit	Lube	Inputs	Maint.	Lease	Interest	Insurance	COST	per Acre	Variable	Fixed	TOTAL
==========		.=======	:=======	========	=======		.=======	:=======	=========	.=======			=======
100 HP TRACTOR	2WD	\$/Hour	\$5.17	\$0.00	\$4.86	\$0.00	\$4.48	\$0.72	\$15.23	1.3722	\$13.76	\$7.14	\$20.90
140 HP TRACTOR	MFD	\$/Hour	7.24	0.00	6.20	0.00	6.66	1.17	21.27	0.9166	12.32	7.18	19.50
70 HP TRACTOR	2WD	\$/Hour	3.62	0.00	1.85	0.00	4.69	0.82	10.98	0.6715	3.67	3.70	7.37
COMBINE 100 BU		\$/Hour	10.38	0.00	8.21	0.00	53.44	9.35	81.38	0.5000	9.30	31.40	40.70
6-ROW CULTIVATOR	5	\$/Hour	0.00	0.00	3.63	0.00	2.46	0.28	6.37	0.4501	1.63	1.23	2.86
6-ROW PLANTER		\$/Hour	0.00	0.00	4.48	0.00	5.08	0.71	10.27	0.3333	1.49	1.93	3.42
CORN HEAD	4-ROW	\$/Hour	0.00	0.00	0.06	0.00	17.97	3.15	21.18	0.5000	0.03	10.56	10.59
FERTLIZER SPREDE		\$/Hour	0.00	0.00	0.00	5.00	0.00	0.00	5.00	0.1000	0.50	0.00	0.50
FERTLIZER TRAILF	R LEASED	\$/Hour	0.00	0.00	0.00	3.00	0.00	0.00	3.00	0.1667	0.50	0.00	0.50
FIELD CULTIVATOR	R 15 FT	\$/Hour	0.00	0.00	0.95	0.00	10.26	1.80	13.01	0.1667	0.16	2.01	2.17
PIPE TRAILER	30 FT	\$/Hour	0.00	0.00	0.33	0.00	1.56	0.27	2.16	0.0714	0.02	0.13	0.15
PLOW 2-WAY	5-18'S	\$/Hour	0.00	0.00	5.90	0.00	3.04	0.52	9.46	0.3333	1.97	1.19	3.16
ROLLER HARROW		\$/Hour	0.00	0.00	1.69	0.00	3.66	0.56	5.91	0.4222	0.71	1.78	2.49
ROTARY HOE	15 FT	\$/Hour	0.00	0.00	0.49	0.00	6.87	1.20	8.56	0.1667	0.08	1.35	1.43
SPRAYER 12-ROW	PULL	\$/Hour	0.00	0.00	1.15	0.00	2.05	0.32	3.52	0.3334	0.38	0.79	1.17
SUBSOILER	5-SHANK	\$/Hour	0.00	0.00	0.57	0.00	6.14	1.07	7.78	0.1667	0.10	1.20	1.30
TANDEM DISK	21 FT	\$/Hour	0.00	0.00	2.89	0.00	9.12	1.60	13.61	0.2501	0.72	2.68	3.40
WEED BURNER		\$/Hour	0.93	0.00	0.00	0.00	0.53	0.05	1.51	0.0240	0.02	0.01	0.03
1/2 TON PICKUP	2WD	\$/Mile	0.10	0.00	0.06	0.00	0.26	0.07	0.49	22.0690	3.53	7.28	10.81
1/2 TON PICKUP	4WD	\$/Mile	0.10	0.00	0.07	0.00	0.29	0.08	0.54	22.0690	3.75	8.17	11.92
2 TON TRUCK	#1	\$/Mile	0.24	0.00	0.20	0.00	0.48	0.21	1.13	2.9400	1.29	2.03	3.32
2 TON TRUCK	#2	\$/Mile	0.24	0.00	0.20	0.00	0.37	0.17	0.98	2.9400	1.29	1.59	2.88
CENTER PIVOT		\$/Ac-In	0.81	0.05	0.87	0.00	1.76	0.12	3.61	7.0800	12.25	13.31	25.56
CONCRETE DITCH		\$/Ac-In	0.00	0.93	0.00	0.00	0.91	0.06	1.90	9.6000	8.93	9.31	18.24
GATED PIPE		\$/Ac-In	0.00	0.73	0.08	0.00	0.99	0.08	1.88	17.4800	14.16	18.70	32.86
GRND WATER WELL		\$/Ac-In	2.22	0.00	0.52	0.00	2.58	0.23	5.55	2.3600	6.47	6.63	13.10
GRAIN BIN-1500BU	J #1	\$/Year	60.00	0.00	70.18	0.00	222.35	19.74	372.27	0.0160	2.08	3.87	5.95
GRAIN BIN-1500BU	J #2	\$/Year	60.00	0.00	70.18	0.00	222.35	19.74	372.27	0.0160	2.08	3.87	5.95
METAL SHOP	20 X 20	\$/Year	720.00	0.00	140.37	0.00	1,545.75	131.63	2,537.75	0.0020	1.72	3.35	5.07
POLE BARN	40 X 80	\$/Year	360.00	0.00	140.37	0.00	2,550.49	217.20	3,268.06	0.0020	1.00	5.54	6.54

#### Corn for Grain

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