Utah **S**tate **U**niversity
Extension **E**conomics

Modify Colored Columns

Costs and Returns per acre from growing corn for grain, 2006
Juab County

Receipts	Quantity per acre	Unit	Price/cost per unit	Value/cost per acre	Base Value	Your Value
Corn grain	144.5	bushels	$2.87	$414.81	$414.81	
Residue	-	AUM	$0.00	$0.00	$0.00	
Subtotal				$414.81	$414.81	
Operating costs						
Land preparation						
Plowing (every 3rd year)	1/3	acre	$5.88	$1.96	$1.96	
Roller harrow	1	acre	$3.64	$3.64	$3.64	
Land plane	1	acre	$3.34	$3.34	$3.34	
Planting	1	acre	$5.28	$5.28	$5.28	
Seed	0.5	bags	$90.00	$45.00	$45.00	
Cultivations						
first	1	acre	$2.94	$2.94	$2.94	
second	1	acre	$2.94	$2.94	$2.94	
Fertilization						
Nitrogen (34-0-0)	561	pounds	$0.18	$100.14	$100.14	
Phosphate (11-52-0)	163	pounds	$0.18	$29.10	$29.10	
Custom application	1	acre	$7.82	$7.82	$7.82	
Pesticides/herbicides						
Lasso	3.00	quart	$6.50	$19.50	$19.50	
Phorate	6.75	pounds	$2.40	$16.20	$16.20	
2-4-D	2.50	pints	$2.75	$6.87	$6.87	
Custom application	1	acre	$7.82	$7.82	$7.82	
Irrigation (siphon)	5	irrigations				
Labor	1.67	hours	$10.00	$16.67	$16.67	
Water assessment	1	share	$30.00	$30.00	$30.00	
Repairs/maintenance	1	acre	$2.30	$2.30	$2.30	
Pumping	27	acre inch	$0.00	$0.00	$0.00	
Harvesting						
Custom combine	1	acre	$30.00	$30.00	$30.00	
Haul grain (custom)	144.5	bushel	$0.06	$8.67	$8.67	
Crop insurance (75% Yield, 100% Price)	1	acre	$7.62	$7.62	$7.62	
Interest on operating capital			7.61%	$6.86	$6.86	
Subtotal				$354.67	$354.67	
Ownership costs (excludes cost of land)				$42.61	$42.61	
Farm insurance	1	acre	$2.00	$2.00	$2.00	
Machinery ownership costs	1	acre	$32.36	$32.36	$32.36	
Irrigation equipment costs	1	acre	$8.25	$8.25	$8.25	
Total costs				$397.28	$397.28	
Net returns to owner for unpaid labor, management, equity and risk						
Above operating costs				$60.14	$60.14	
Above total listed costs				$17.53	$17.53	

Breakeven Table - Corn Grain

Net returns per acre above operating costs

Yield	Selling Price ($/Bu)				
(Bu/Ac)	**$1.87**	**$2.37**	**$2.87**	**$3.37**	**$3.87**
129.50	-$111.52	-$46.77	$17.98	$82.73	$147.48
134.50	-$102.47	-$35.22	$32.03	$99.28	$166.53
139.50	-$93.42	-$23.67	$46.08	$115.83	$185.58
144.50	-$84.36	-$12.11	$60.14	$132.39	$204.64
149.50	-$75.31	-$0.56	$74.19	$148.94	$223.69
154.50	-$66.26	$10.99	$88.24	$165.49	$242.74
159.50	-$57.20	$22.55	$102.30	$182.05	$261.80

Assumptions

1. Grain planted in late April and harvested in October.
2. Interest computed on land preparation and planting costs for 6 months and cultivation, fertilization, herbicide,and irrigation costs for 3 months.
3. Machinery operating costs include: fuel, oil, repairs and labor.
4. Machinery ownership costs are allocated based on equipment used for each crop.
5. Machinery ownership costs include depreciation, interest, insurance, and housing.

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