

Projections for Planning Purposes Only -- Not to be Used without Updating
2017 Estimated Costs and Returns per Acre
Alamo Switchgrass, Full Season, Pivot Irrigated, Baled - 122 Acres
Far West Extension District - 6

Crop Acres	122					Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	
Switchgrass	3.17	Ton	\$116.00	\$367.72	\$44,861.84	
Total Revenue				\$367.72	\$44,861.84	
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise	
Production Costs					Total	
Fertilizer						
N-32 in Water	20	Pound	\$0.17	\$3.40	\$414.80	
Urea, Solid (46% N)	0.45	CWT	\$19.75	\$8.89	\$1,084.28	
Herbicide						
2,4-D Amine 4	40	Ounce	\$0.12	\$4.80	\$585.60	
Other Labor						
Hand Labor	0.14	Hour	\$8.50	\$1.19	\$145.18	
Irrigation						
Energy Cost	4.56	Mcf	\$4.00	\$18.24	\$2,225.28	
Irrigation Labor	0.03	Hour	\$12.00	\$0.32	\$38.65	
Machinery Labor						
Tractors/Self-Propelled	2.89	Hour	\$12.00	\$34.68	\$4,230.96	
Diesel Fuel						
Tractors/Self-Propelled	15.99	Gallon	\$1.83	\$29.26	\$3,569.93	
Repairs & Maintenance						
Irrigation Equipment	1	Acre	\$12.02	\$12.02	\$1,466.07	
Tractors/Self-Propelled	1	Acre	\$20.38	\$20.38	\$2,486.68	
Implements	1	Acre	\$1.63	\$1.63	\$199.31	
Interest on Credit Line			6.50%	\$2.55	\$311.38	
Total Variable Costs				\$137.36	\$16,758.11	
Planned Returns Above Variable Costs:				\$230.36	\$28,103.73	
Breakeven Price to Cover Variable Costs			\$43.33	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise	
Machinery Depreciation					Total	
Irrigation Equipment	1	Acre	\$48.64	\$48.64	\$5,933.75	
Tractors/Self-Propelled	1	Acre	\$24.98	\$24.98	\$3,047.58	
Implements	1	Acre	\$3.66	\$3.66	\$447.00	
Equipment Investment						
Irrigation Equipment	\$364.78	Dollars	6.50%	\$23.71	\$2,892.70	
Tractors/Self-Propelled	\$185.01	Dollars	6.50%	\$12.03	\$1,467.14	
Implements	\$28.26	Dollars	6.50%	\$1.84	\$224.08	
Coa Allocated Establishment Cost	1	Acre	\$41.84	\$41.84	\$5,104.48	
Trans Pecos Irrigated Land	1	Acre	\$40.00	\$40.00	\$4,880.00	
Total Fixed Costs				\$196.69	\$23,996.73	
Total Specified Costs				\$334.06	\$40,754.83	
Returns Above Specified Costs				\$33.66	\$4,107.01	
Breakeven Price to Cover Total Costs			\$105.38	Ton		

Example Breakeven Prices			
Example	Example	To Cover	To Cover
Yield	Yield	Variable	Total
Percent	Ton	Costs	Costs
75%	2.38	\$57.78	\$140.51
90%	2.85	\$48.15	\$117.09
100%	3.17	\$43.33	\$105.38
110%	3.49	\$39.39	\$95.80
125%	3.96	\$34.67	\$84.30

Developed by Rob Hogan, Associate Professor and Extension Economist, Texas A&M AgriLife Extension, 830-278-9151.

Information presented is prepared solely as a general guide and not intended to recognize or predict the costs and returns from any one operation. Brand names are mentioned only as examples and imply no endorsement.