

Projections for Planning Purposes Only -- *Not to be Used without Updating*
2021 Estimated Costs and Returns per Acre
Alamo Switchgrass, Full Season, Pivot Irrigated, Baled
Far West Extension District - 6

Crop Acres		122			
REVENUE	Quantity	Units	\$/Unit	Total	Enterprise Total
Switchgrass	3.17	Ton	\$145.00	\$459.65	\$56,077.30
Total Revenue				\$459.65	\$56,077.30
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs					
Fertilizer					
N-32 in Water	20	Pound	\$0.38	\$7.66	\$934.03
Urea, Solid (46% N)	0.45	CWT	\$22.25	\$10.01	\$1,221.53
Herbicide					
2,4-D Amine 4	40	Ounce	\$0.10	\$4.03	\$491.81
Other Labor					
Hand Labor	0.14	Hour	\$8.50	\$1.19	\$145.18
Irrigation					
Energy Cost	4.56	Mcf	\$5.61	\$25.58	\$3,120.96
Irrigation Labor	0.03	Hour	\$15.00	\$0.40	\$48.31
Machinery Labor					
Tractors/Self-Propelled	2.89	Hour	\$15.00	\$43.35	\$5,288.70
Diesel Fuel					
Tractors/Self-Propelled	16.78	Gallon	\$1.50	\$25.17	\$3,070.74
Repairs & Maintenance					
Irrigation Equipment	1	Acre	\$12.02	\$12.02	\$1,466.07
Tractors/Self-Propelled	1	Acre	\$21.51	\$21.51	\$2,624.50
Implements	1	Acre	\$1.97	\$1.97	\$239.99
Interest on Credit Line			4.55%	\$2.53	\$308.99
Total Variable Costs				\$155.42	\$18,960.81
Planned Returns Above Variable Costs:				\$304.23	\$37,116.49
Breakeven Price to Cover Variable Costs			\$49.03	Ton	
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Machinery Depreciation					
Irrigation Equipment	1	Acre	\$48.64	\$48.64	\$5,933.75
Tractors/Self-Propelled	1	Acre	\$28.01	\$28.01	\$3,416.76
Implements	1	Acre	\$4.35	\$4.35	\$530.96
Equipment Investment					
Irrigation Equipment	\$364.78	Dollars	5.50%	\$20.06	\$2,447.67
Tractors/Self-Propelled	\$204.28	Dollars	5.50%	\$11.24	\$1,370.71
Implements	\$34.58	Dollars	5.50%	\$1.90	\$232.00
Allocated Establishment Cost	1	Acre	\$47.71	\$47.71	\$5,820.01
Trans Pecos Irrigated Land	1	Acre	\$50.00	\$50.00	\$6,100.00
Total Fixed Costs				\$211.90	\$25,851.86
Total Specified Costs				\$367.32	\$44,812.67
Returns Above Specified Costs				\$92.33	\$11,264.63
Breakeven Price to Cover Total Costs			\$115.87	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	2.38	\$65.37	\$154.50
90%	2.85	\$54.47	\$128.75
100%	3.17	\$49.03	\$115.87
110%	3.49	\$44.57	\$105.34
125%	3.96	\$39.22	\$92.70

Developed by Bill Thompson, Assistant Professor and Extension Economist, Texas A&M AgriLife Extension Service, 325-653-4576.

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.