

**Projections for Planning Purposes Only -- *Not to be Used without Updating***  
**2023 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
<b>Total Revenue</b>				<b>\$459.65</b>	<b>\$56,077.30</b>
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
<b>Production Costs</b>					
Fertilizer					
N-32 in Water	20	Pound	\$0.53	\$10.60	\$1,293.20
Urea, Solid (46% N)	0.45	CWT	\$31.15	\$14.02	\$1,710.14
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	\$4.70	\$21.43	\$2,614.70
Irrigation Labor	0.03	Hour	\$17.50	\$0.46	\$56.36
Machinery Labor					
Tractors/Self-Propelled	2.89	Hour	\$17.21	\$49.74	\$6,067.90
Diesel Fuel					
Tractors/Self-Propelled	16.78	Gallon	\$2.24	\$37.59	\$4,585.64
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			8.00%	\$5.00	\$609.98
<b>Total Variable Costs</b>				<b>\$179.55</b>	<b>\$21,905.47</b>
Planned Returns Above Variable Costs:				\$280.10	\$34,171.83
Breakeven Price to Cover Variable Costs			\$56.64	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	8.00%	\$29.18	\$3,560.25
Tractors/Self-Propelled	\$204.28	Dollars	8.00%	\$16.34	\$1,993.76
Implements	\$34.58	Dollars	8.00%	\$2.77	\$337.46
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
<b>Total Fixed Costs</b>				<b>\$226.99</b>	<b>\$27,692.95</b>
<b>Total Specified Costs</b>				<b>\$406.54</b>	<b>\$49,598.42</b>
Returns Above Specified Costs				\$53.11	\$6,478.88
<b>Breakeven Price to Cover Total Costs</b>			<b>\$128.25</b>	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	2.38	\$75.52	\$171.00
90%	2.85	\$62.93	\$142.50
100%	3.17	\$56.64	\$128.25
110%	3.49	\$51.49	\$116.59
125%	3.96	\$45.31	\$102.60

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.**