

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2016 Estimated Costs and Returns per Acre**  
**Sorghum Silage, Sprinkler Irrigated - 122 Acres**  
**Panhandle Extension District - 1**

Crop Acres		122				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	Total
Sorghum Silage	21.00	Ton	\$34.10	\$716.10	\$87,364.20	\$87,364.20
Total Revenue				\$716.10	\$87,364.20	\$87,364.20
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
Seed						
Seed - Sorghum	5	Pound	\$1.92	\$9.58	\$1,169.20	
Fertilizer						
Fertilizer (N) - ANH3	150	Pound	\$0.36	\$54.00	\$6,588.00	
Fertilizer (P) - Dry	60	Pound	\$0.52	\$31.20	\$3,806.40	
Custom						
Fertilizer Application - ANH3	1	Acre	\$12.07	\$12.07	\$1,472.92	
Fertilizer Application	1	Acre	\$5.65	\$5.65	\$689.45	
Harvest and Haul - Sorghum Silage	21	Ton	\$9.04	\$189.88	\$23,165.60	
Miscellaneous						
Crop Insurance Sorghum Silage	1	Acre	\$36.00	\$36.00	\$4,392.00	
Herbicide						
Herbicide and Apply Sorghum Sudan	1	Acre	\$12.00	\$12.00	\$1,464.00	
Insecticide						
Insecticide and Apply Sorghum	0.33	Application	\$9.79	\$3.23	\$394.26	
Irrigation						
Energy Cost	13.00	AcreInch	\$3.20	\$41.60	\$5,075.20	
Irrigation Labor	0.83	Hour	\$12.16	\$10.12	\$1,234.18	
Machinery Labor						
Tractors/Self-Propelled	0.8	Hour	\$11.97	\$9.57	\$1,168.02	
Diesel Fuel						
Tractors/Self-Propelled	2.06	Gallon	\$1.97	\$4.06	\$495.10	
Gasoline						
Pickup/General Use Equipment	1	Acre	\$6.33	\$6.33	\$772.50	
Repairs & Maintenance						
Pickup/General Use Equipment	1	Acre	\$3.76	\$3.76	\$459.00	
Irrigation Equipment	1	Acre	\$52.52	\$52.52	\$6,407.44	
Tractors/Self-Propelled	1	Acre	\$2.81	\$2.81	\$342.93	
Implements	1	Acre	\$11.71	\$11.71	\$1,429.12	
Interest on Credit Line			5.15%	\$7.26	\$885.17	
Total Variable Costs				\$503.36	\$61,410.49	
Planned Returns Above Variable Costs:				\$212.74	\$25,953.71	
Breakeven Price to Cover Variable Costs			\$23.97	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Machinery Depreciation						
Pickup/General Use Equipment	1	Acre	\$3.95	\$3.95	\$481.95	
Irrigation Equipment	1	Acre	\$22.50	\$22.50	\$2,745.60	
Tractors/Self-Propelled	1	Acre	\$2.76	\$2.76	\$336.14	
Implements	1	Acre	\$14.50	\$14.50	\$1,769.55	
Equipment Investment						
Pickup/General Use Equipment	\$27.28	Dollars	5.40%	\$1.47	\$179.70	
Irrigation Equipment	\$421.97	Dollars	5.40%	\$22.79	\$2,779.92	
Tractors/Self-Propelled	\$21.46	Dollars	5.40%	\$1.16	\$141.41	
Implements	\$62.05	Dollars	5.40%	\$3.35	\$408.77	
Cash Rent - Sorghum Silage	1	Acre	\$75.00	\$75.00	\$9,150.00	
Total Fixed Costs				\$147.48	\$17,993.03	
Total Specified Costs				\$650.85	\$79,403.53	
Returns Above Specified Costs				\$65.25	\$7,960.67	
Breakeven Price to Cover Total Costs			\$30.99	Ton		

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	Price Needed to Cover Your Variable Costs	Price Needed to Cover Your Total Costs
75%	15.75	\$31.96	\$41.32
90%	18.90	\$26.63	\$34.44
100%	21.00	\$23.97	\$30.99
110%	23.10	\$21.79	\$28.18
125%	26.25	\$19.18	\$24.79

Developed by Steve Amosson, Regents Fellow, Professor and Extension Economist, Texas A&M AgriLife Extension.

**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.**