

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2015 Estimated Costs and Returns per Acre**  
**Sorghum Silage, Sprinkler Irrigated - 122 Acres**  
**Panhandle Extension District - 1**

Crop Acres		122				
REVENUE		Quantity	Units	\$/Unit	Total	Enterprise Total
Sorghum Silage		21.00	Ton	\$36.30	\$762.30	\$93,000.60
Total Revenue					\$762.30	\$93,000.60
VARIABLE COSTS		Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs						
Seed						
Seed - Sorghum		7	Pound	\$1.90	\$13.30	\$1,622.60
Fertilizer						
Fertilizer (N) - ANH3		174	Pound	\$0.40	\$69.60	\$8,491.20
Fertilizer (P) - Dry		60	Pound	\$0.60	\$36.00	\$4,392.00
Custom						
Fertilizer Application - ANH3		1	Acre	\$11.75	\$11.75	\$1,433.50
Fertilizer Application		1	Acre	\$5.50	\$5.50	\$671.00
Harvest and Haul - Sorghum Silage		21	Ton	\$8.80	\$184.80	\$22,545.60
Miscellaneous						
Crop Insurance Sorghum Silage		1	Acre	\$22.46	\$22.46	\$2,740.61
Herbicide						
Herbicide and Apply Sorghum Sudan		1	Acre	\$7.95	\$7.95	\$969.90
Insecticide						
Insecticide and Apply Sorghum		0.33	Application	\$10.25	\$3.38	\$412.67
Irrigation						
Energy Cost		13.00	AcreInch	\$4.30	\$55.90	\$6,819.80
Irrigation Labor		0.83	Hour	\$11.75	\$9.78	\$1,192.67
Machinery Labor						
Tractors/Self-Propelled		0.8	Hour	\$11.75	\$9.40	\$1,146.80
Diesel Fuel						
Tractors/Self-Propelled		2.06	Gallon	\$3.30	\$6.80	\$829.36
Gasoline						
Pickup/General Use Equipment		1	Acre	\$9.19	\$9.19	\$1,121.25
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				4.90%	\$7.39	\$901.21
Total Variable Costs					\$524.01	\$63,928.65
Planned Returns Above Variable Costs:					\$238.29	\$29,071.95
Breakeven Price to Cover Variable Costs				\$24.95	Ton	
FIXED COSTS		Quantity	Units	\$/Unit	Total	Enterprise Total
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		\$47.03	Dollars	5.40%	\$2.54	\$309.83
Irrigation Equipment		\$703.28	Dollars	5.40%	\$37.98	\$4,633.20
Tractors/Self-Propelled		\$31.11	Dollars	5.40%	\$1.68	\$204.94
Implements		\$112.81	Dollars	5.40%	\$6.09	\$743.21
Cash Rent - Sorghum Silage		1	Acre	\$80.75	\$80.75	\$9,851.50
Total Fixed Costs					\$172.75	\$21,075.92
Total Specified Costs					\$696.76	\$85,004.57
Returns Above Specified Costs					\$65.54	\$7,996.03
Breakeven Price to Cover Total Costs				\$33.18	Ton	

Example Breakeven Prices						
Example Yield Percent	Example Yield Ton	Price Needed to Cover Example Variable Costs		Price Needed to Cover Example Total Costs		
		Own/Rent	ShareTenant	Own/Rent	ShareTenant	Landlord
75%	15.75	\$33.27	\$33.27	\$44.24	\$44.24	\$0.00
90%	18.90	\$27.73	\$27.73	\$36.87	\$36.87	\$0.00
100%	21.00	\$24.95	\$24.95	\$33.18	\$33.18	\$0.00
110%	23.10	\$22.68	\$22.68	\$30.16	\$30.16	\$0.00
125%	26.25	\$19.96	\$19.96	\$26.54	\$26.54	\$0.00

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.**