

Projections for Planning Purposes Only -- Not to be Used without Updating
2017 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
Sorghum Silage	21.00	Ton	\$31.60	\$663.60		\$80,959.20
Total Revenue				\$663.60		\$80,959.20
VARIABLE COSTS	Quantity	Units	\$/Unit	Total		Enterprise
Production Costs						
Fertilizer						
Fertilizer (N) - ANH3	150	Pound	\$0.25	\$37.50		\$4,575.00
Fertilizer (P) - Dry	60	Pound	\$0.43	\$25.80		\$3,147.60
Custom						
Fertilizer Application - ANH3	1	Acre	\$15.00	\$15.00		\$1,830.00
Fertilizer Application	1	Acre	\$5.00	\$5.00		\$610.00
Harvest and Haul - Sorghum Silage	21	Ton	\$9.00	\$189.00		\$23,058.00
Miscellaneous						
Crop Insurance Sorghum Silage	1	Acre	\$33.00	\$33.00		\$4,026.00
Insecticide						
Insecticide Head Worm	0.33	Application	\$9.80	\$3.23		\$394.55
Insecticide Sugar Cane Aphid	1	Application	\$21.00	\$21.00		\$2,562.00
Herbicide						
Herbicide and Apply Sorghum Sudan	1	Acre	\$12.10	\$12.10		\$1,476.20
Seed						
Seed - Sorghum	5	Pound	\$1.85	\$9.25		\$1,128.50
Irrigation						
Energy Cost	13.00	AcreInch	\$3.60	\$46.80		\$5,709.60
Irrigation Labor	0.83	Hour	\$12.45	\$10.36		\$1,263.72
Machinery Labor						
Tractors/Self-Propelled	0.79	Hour	\$12.25	\$9.68		\$1,180.66
Diesel Fuel						
Tractors/Self-Propelled	2.04	Gallon	\$1.81	\$3.69		\$450.47
Gasoline						
Pickup/General Use Equipment	1	Acre	\$5.93	\$5.93		\$723.75
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	\$3.62	\$3.62		\$441.98
Implements	1	Acre	\$13.18	\$13.18		\$1,607.60
Interest on Credit Line			5.40%	\$7.06		\$860.78
Total Variable Costs				\$507.48		\$61,912.85
Planned Returns Above Variable Costs:					\$156.12	\$19,046.35
Breakeven Price to Cover Variable Costs			\$24.17	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total		Enterprise
Machinery Depreciation						
Pickup/General Use Equipment	1	Acre	\$3.95	\$3.95		\$481.95
Irrigation Equipment	1	Acre	\$36.27	\$36.27		\$4,425.00
Tractors/Self-Propelled	1	Acre	\$3.52	\$3.52		\$428.90
Implements	1	Acre	\$16.15	\$16.15		\$1,970.42
Equipment Investment						
Pickup/General Use Equipment	\$27.28	Dollars	5.65%	\$1.54		\$188.02
Irrigation Equipment	\$490.57	Dollars	5.65%	\$27.72		\$3,381.53
Tractors/Self-Propelled	\$27.39	Dollars	5.65%	\$1.55		\$188.78
Implements	\$69.09	Dollars	5.65%	\$3.90		\$476.24
Cash Rent - Sorghum Silage	1	Acre	\$72.00	\$72.00		\$8,784.00
Total Fixed Costs				\$166.60		\$20,324.83
Total Specified Costs				\$674.08		\$82,237.68
Returns Above Specified Costs					(\$10.48)	(\$1,278.48)
Breakeven Price to Cover Total Costs			\$32.10	Ton		

Example Breakeven Prices			
Example	Example	To Cover	To Cover
Yield	Yield	Variable	Total
Percent	Ton	Costs	Costs
75%	15.75	\$32.22	\$42.80
90%	18.90	\$26.85	\$35.67
100%	21.00	\$24.17	\$32.10
110%	23.10	\$21.97	\$29.18
125%	26.25	\$19.33	\$25.68

Developed by Steve Amosson, Regents Fellow, Professor and Extension Economist, Texas A&M AgriLife Extension, 806-677-5600.

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.