

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2018 Estimated Costs and Returns per Acre**  
**Irrigated Sorghum Silage**  
**South Plains Extension District - 2**

Crop Acres		122				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	Total
Sorghum Silage	24.00	Ton	\$33.00	\$792.00	\$96,624.00	\$96,624.00
Total Revenue				\$792.00	\$96,624.00	\$96,624.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
Fertilizer						
Fertilizer (N) - Liquid	70	Pound	\$0.39	\$27.34	\$3,335.94	
Fertilizer (P) - Liquid	88	Pound	\$0.57	\$50.47	\$6,157.41	
Fertilizer (N) - NH3	150	Pound	\$0.30	\$45.73	\$5,579.27	
Custom						
Harvest and Haul - Sorghum Silage	24	Ton	\$7.00	\$168.00	\$20,496.00	
Fertilizer Application - Liquid High	1	Acre	\$4.75	\$4.75	\$579.50	
Fertilizer Application - Liquid Low	1	Acre	\$3.50	\$3.50	\$427.00	
Fertilizer Application - NH3	1	Acre	\$3.50	\$3.50	\$427.00	
Miscellaneous						
Crop Insurance Sorghum Silage	1	Acre	\$23.00	\$23.00	\$2,806.00	
Insecticide						
Insecticide and Apply Sorghum Silage	1	Acre	\$4.29	\$4.29	\$523.38	
Herbicide						
Herbicide and Apply Sorghum Silage	1	Acre	\$10.50	\$10.50	\$1,281.00	
Seed						
Seed - Sorghum	7	Pound	\$2.40	\$16.80	\$2,049.60	
Irrigation						
Energy Cost	16.00	AcreInch	\$10.00	\$160.00	\$19,520.00	
Irrigation Labor	1.00	Hour	\$12.00	\$12.00	\$1,464.00	
Machinery Labor						
Tractors/Self-Propelled	0.61	Hour	\$12.00	\$7.32	\$893.04	
Other Labor	0.69	Hour	\$12.00	\$8.28	\$1,010.16	
Diesel Fuel						
Tractors/Self-Propelled	3.2	Gallon	\$2.30	\$7.36	\$897.92	
Gasoline						
Pickup/General Use Equipment	1	Acre	\$6.00	\$6.00	\$732.00	
Repairs & Maintenance						
Pickup/General Use Equipment	1	Acre	\$0.50	\$0.50	\$61.00	
Irrigation Equipment	1	Acre	\$27.25	\$27.25	\$3,324.50	
Tractors/Self-Propelled	1	Acre	\$6.00	\$6.00	\$732.00	
Implements	1	Acre	\$3.00	\$3.00	\$366.00	
Interest on Credit Line			6.00%	\$7.46	\$910.24	
Total Variable Costs				\$603.06	\$73,572.96	
Planned Returns Above Variable Costs:				\$188.94	\$23,051.04	
Breakeven Price to Cover Variable Costs			\$25.13	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Equipment Fixed Costs						
Pickup/General Use Equipment	1	Acre	\$1.25	\$1.25	\$152.50	
Irrigation Equipment	1	Acre	\$55.00	\$55.00	\$6,710.00	
Tractors/Self-Propelled	1	Acre	\$12.00	\$12.00	\$1,464.00	
Implements	1	Acre	\$10.00	\$10.00	\$1,220.00	
Management Fee, Owner/Operator Labor	1	Acre	\$25.00	\$25.00	\$3,050.00	
Cash Rent - Sorghum Silage	1	Acre	\$100.00	\$100.00	\$12,200.00	
Whole Farm Insurance	1	Acre	\$2.00	\$2.00	\$244.00	
Total Fixed Costs				\$205.25	\$25,040.50	
Total Specified Costs				\$808.31	\$98,613.46	
Returns Above Specified Costs				(\$16.31)	(\$1,989.46)	
Breakeven Price to Cover Total Costs			\$33.68	Ton		

Example Breakeven Prices			
Exampk Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	18.00	\$33.50	\$44.91
90%	21.60	\$27.92	\$37.42
100%	24.00	\$25.13	\$33.68
110%	26.40	\$22.84	\$30.62
125%	30.00	\$20.10	\$26.94

Developed by Jackie Smith, Professor and Extension Economist, Texas A&M AgriLife Extension, 806-746-6101.

**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.**