

**Projections for Planning Purposes Only -- Not to be Used without Updating**  
**2019 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	\$30.00	\$720.00	\$720.00	\$87,840.00
Total Revenue				\$720.00	\$720.00	\$87,840.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
<b>Production Costs</b>						
Fertilizer						
Fertilizer (N) - Liquid	70	Pound	\$0.46	\$32.27	\$32.27	\$3,936.41
Fertilizer (P) - Liquid	88	Pound	\$0.71	\$62.76	\$62.76	\$7,657.29
Fertilizer (N) - NH3	150	Pound	\$0.30	\$45.73	\$45.73	\$5,579.27
Custom						
Harvest and Haul - Sorghum Silage	24	Ton	\$7.00	\$168.00	\$168.00	\$20,496.00
Fertilizer Application - Liquid High	1	Acre	\$4.75	\$4.75	\$4.75	\$579.50
Fertilizer Application - Liquid Low	1	Acre	\$3.50	\$3.50	\$3.50	\$427.00
Fertilizer Application - NH3	1	Acre	\$3.50	\$3.50	\$3.50	\$427.00
Miscellaneous						
Crop Insurance Sorghum Silage	1	Acre	\$23.00	\$23.00	\$23.00	\$2,806.00
Insecticide						
Insecticide and Apply Sorghum Silage	1	Acre	\$4.29	\$4.29	\$4.29	\$523.38
Herbicide						
Herbicide and Apply Sorghum Silage	1	Acre	\$10.50	\$10.50	\$10.50	\$1,281.00
Seed						
Seed - Sorghum	7	Pound	\$2.40	\$16.80	\$16.80	\$2,049.60
Irrigation						
Energy Cost	16.00	AcreInch	\$10.00	\$160.00	\$160.00	\$19,520.00
Irrigation Labor	1.00	Hour	\$12.00	\$12.00	\$12.00	\$1,464.00
Machinery Labor						
Tractors/Self-Propelled	0.61	Hour	\$12.00	\$7.32	\$7.32	\$893.04
Other Labor	0.69	Hour	\$12.00	\$8.28	\$8.28	\$1,010.16
Diesel Fuel						
Tractors/Self-Propelled	3.2	Gallon	\$2.40	\$7.68	\$7.68	\$936.96
Gasoline						
Pickup/General Use Equipment	1	Acre	\$4.00	\$4.00	\$4.00	\$488.00
Repairs & Maintenance						
Pickup/General Use Equipment	1	Acre	\$0.50	\$0.50	\$0.50	\$61.00
Irrigation Equipment	1	Acre	\$27.25	\$27.25	\$27.25	\$3,324.50
Tractors/Self-Propelled	1	Acre	\$6.00	\$6.00	\$6.00	\$732.00
Implements	1	Acre	\$3.00	\$3.00	\$3.00	\$366.00
Interest on Credit Line			6.00%	\$7.83	\$7.83	\$955.05
Total Variable Costs				\$618.96	\$618.96	\$75,513.16
Planned Returns Above Variable Costs:				\$101.04	\$101.04	\$12,326.84
Breakeven Price to Cover Variable Costs			\$25.79	Ton		
FIXED COSTS	Quantity	Units	\$/Unit	Total	Total	Enterprise
Equipment Fixed Costs						
Pickup/General Use Equipment	1	Acre	\$1.25	\$1.25	\$1.25	\$152.50
Irrigation Equipment	1	Acre	\$55.00	\$55.00	\$55.00	\$6,710.00
Tractors/Self-Propelled	1	Acre	\$12.00	\$12.00	\$12.00	\$1,464.00
Implements	1	Acre	\$10.00	\$10.00	\$10.00	\$1,220.00
Management Fee, Owner/Operator Labor	1	Acre	\$25.00	\$25.00	\$25.00	\$3,050.00
Cash Rent - Sorghum Silage	1	Acre	\$100.00	\$100.00	\$100.00	\$12,200.00
Whole Farm Insurance	1	Acre	\$2.00	\$2.00	\$2.00	\$244.00
Total Fixed Costs				\$205.25	\$205.25	\$25,040.50
Total Specified Costs				\$824.21	\$824.21	\$100,553.66
Returns Above Specified Costs					(\$104.21)	(\$12,713.66)
Breakeven Price to Cover Total Costs			\$34.34	Ton		

Example Breakeven Prices			
Exampk Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	18.00	\$34.39	\$45.79
90%	21.60	\$28.66	\$38.16
100%	24.00	\$25.79	\$34.34
110%	26.40	\$23.45	\$31.22
125%	30.00	\$20.63	\$27.47

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.**