

Projections for Planning Purposes Only -- Not to be Used without Updating
2024 Estimated Costs and Returns per Acre
Irrigated Sorghum Silage
South Plains Extension District - 2

Crop Acres		122			
REVENUE	Quantity	Units	\$/Unit	Total	Enterprise Total
Sorghum Silage	24.00	Ton	\$48.00	\$1,152.00	\$140,544.00
Total Revenue				\$1,152.00	\$140,544.00
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
Production Costs					
Fertilizer					
Fertilizer (N) - Liquid	70	Pound	\$0.61	\$42.77	\$5,217.94
Fertilizer (P) - Liquid	88	Pound	\$0.88	\$77.79	\$9,490.62
Fertilizer (N) - NH3	150	Pound	\$0.47	\$70.50	\$8,601.00
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	\$3.00	\$9.60	\$1,170.81
Gasoline					
Pickup/General Use Equipment	1	Acre	\$5.20	\$5.20	\$634.75
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			9.00%	\$13.64	\$1,664.63
Total Variable Costs				\$678.20	\$82,739.93
Planned Returns Above Variable Costs:				\$473.80	\$57,804.07
Breakeven Price to Cover Variable Costs			\$28.26	Ton	
FIXED COSTS	Quantity	Units	\$/Unit	Total	Enterprise Total
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				\$883.45	\$107,780.43
Returns Above Specified Costs				\$268.55	\$32,763.57
Breakeven Price to Cover Total Costs			\$36.81	Ton	

Example Breakeven Prices			
Example Yield Percent	Example Yield Ton	To Cover Variable Costs	To Cover Total Costs
75%	18.00	\$37.68	\$49.08
90%	21.60	\$31.40	\$40.90
100%	24.00	\$28.26	\$36.81
110%	26.40	\$25.69	\$33.46
125%	30.00	\$22.61	\$29.45

Developed by Agricultural Economists, 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.