2023 Estimated Costs and Returns per Acre Irrigated Sorghum Silage South Plains Extension District - 2

Crop Acres 122

REVENUE Quantity Units \$/Unit Total Total	Crop Acres	122				-
Sorghum Silage	REVENITE.	Quantity	Unite	¢/Llnit	Total	•
Total Revenue State Stat						
VARIABLE COSTS Quantity Units \$/Unit Total Enterprise Production Costs Fertilizer (N) - Liquid 70 Pound \$1.06 \$74.20 \$9,052.40 Fertilizer (P) - Liquid 88 Pound \$1.16 \$102.08 \$12,453.76 Fertilizer (N) - NH3 150 Pound \$0.90 \$135.00 \$16,470.00 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 Miscellaneous Crop Insurance Sorghum Silage 1 Acre \$3.50 \$3.50 \$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	5 5	24.00	1011	Ψ00.00		
VARIABLE COSTS Quantity Units \$/Unit Total Total Production Costs Fertilizer Fertilizer (N) - Liquid 70 Pound \$1.06 \$74.20 \$9,052.40 Fertilizer (P) - Liquid 88 Pound \$1.06 \$102.08 \$12,453.76 Fertilizer (N) - NH3 150 Pound \$0.90 \$135.00 \$16,470.00 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 Herbicide Herbicide and Apply Sorghum Silage 1 Acre \$4.29 \$4.29 \$523.38 Seed Seed - Sorghum	Total Hovorido				Ψ1,110.00	
Production Costs Fertilizer Fertilizer (N) - Liquid 70 Pound \$1.06 \$74.20 \$9,052.40 Fertilizer (P) - Liquid 88 Pound \$1.16 \$102.08 \$12,453.76 Fertilizer (N) - NH3 150 Pound \$0.90 \$135.00 \$16,470.00 S16,470.00	VARIABLE COSTS	Quantity	Units	\$/Unit	Total	•
Fertilizer (N) - Liquid 70 Pound \$1.06 \$74.20 \$9,052.40 Fertilizer (P) - Liquid 88 Pound \$1.16 \$102.08 \$12,453.76 Fertilizer (N) - NH3 150 Pound \$0.90 \$135.00 \$16,470.00 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 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				4, 4,		
Fertilizer (P) - Liquid 88 Pound \$1.16 \$102.08 \$12,453.76 Fertilizer (N) - NH3 150 Pound \$0.90 \$135.00 \$16,470.00 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	Fertilizer					
Fertilizer (N) - NH3	Fertilizer (N) - Liquid	70	Pound	\$1.06	\$74.20	\$9,052.40
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	Fertilizer (P) - Liquid	88	Pound	\$1.16	\$102.08	\$12,453.76
Harvest and Haul - Sorghum Silage 24 Ton \$7.00 \$168.00 \$20,496.00	Fertilizer (N) - NH3	150	Pound	\$0.90	\$135.00	\$16,470.00
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 Silage 1 Acre \$4.20 \$4.20 \$4.20 \$4.20 Seed - Sorghum 7 Pound \$2.40 \$16.80 \$2,049.60 Irrigation Silage Silage \$4.20 \$4.20 \$4.20 \$4.20 Seed - Sorghum 7 Pound \$2.40 \$4.20 \$4.20 \$4.20 Seed - Sorghum 7 Pound \$2.40 \$4.20 \$4.20 \$4.20 \$4.20 Seed - Sorghum 7 Pound \$2.40 \$4.20 \$4	Custom					
Fertilizer Application - Liquid Low		24	Ton	\$7.00	\$168.00	\$20,496.00
Fertilizer Application - NH3		1	Acre			\$579.50
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 Irrigation 1 Acre \$23.00 \$20.049.60	···	1	Acre	\$3.50	\$3.50	\$427.00
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 Irrigation 1 Acre \$23.00 \$23.00 \$2,806.00	···	1	Acre	\$3.50	\$3.50	\$427.00
Insecticide Insecticide and Apply Sorghum Silag 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						
Insecticide and Apply Sorghum Silag 1 Acre \$4.29 \$4.29 \$523.38		1	Acre	\$23.00	\$23.00	\$2,806.00
Herbicide Herbicide and Apply Sorghum Silage 1 Acre \$10.50 \$1,281.00 Seed Seed - Sorghum 7 Pound \$2.40 \$16.80 \$2,049.60 Irrigation						
Herbicide and Apply Sorghum Silage 1 Acre \$10.50 \$10.50 \$1,281.00	11 / 0	1	Acre	\$4.29	\$4.29	\$523.38
Seed Seed - Sorghum 7 Pound \$2.40 \$16.80 \$2,049.60 Irrigation \$2,049.60 \$16.80 \$2,049.60						
Seed - Sorghum 7 Pound \$2.40 \$16.80 \$2,049.60 Irrigation	, .	1	Acre	\$10.50	\$10.50	\$1,281.00
Irrigation						
<u>e</u>	5	7	Pound	\$2.40	\$16.80	\$2,049.60
Energy Cost 16 00 Acrelach \$10 00 \$160 00 \$19 520 00	•					
	Energy Cost	16.00	AcreInch		\$160.00	\$19,520.00
Irrigation Labor 1.00 Hour \$12.00 \$12.00 \$1,464.00	•	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		0.69	Hour	\$12.00	\$8.28	\$1,010.16
Diesel Fuel			-			4
Tractors/Self-Propelled 3.2 Gallon \$2.75 \$8.80 \$1,073.60	· · · · · · · · · · · · · · · · · · ·	3.2	Gallon	\$2.75	\$8.80	\$1,073.60
Gasoline		_		4	4- 40	****
Pickup/General Use Equipment 1 Acre \$5.12 \$5.12 \$625.00		1	Acre	\$5.12	\$5.12	\$625.00
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	•	1	Acre		•	
Interest on Credit Line 8.00% \$14.86 \$1,812.45				8.00%		
Total Variable Costs \$798.75 \$97,447.39				_		
Planned Returns Above Variable Costs: \$641.25 \$78,232.61						\$78,232.61
Breakeven Price to Cover Variable Costs \$33.28 Ton	Breakeven Price to Cover Variable Costs			\$33.28 T	on	
Enterprise T. I. I. T. I	FIVED COOTS			• #1 **	.	•
FIXED COSTS Quantity Units \$/Unit Total Total		Quantity	Units	\$/Unit	Total	lotal
Equipment Fixed Costs	1-1-	_		44.0=	** **	**====
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	5 5					
Whole Farm Insurance 1 Acre \$2.00 \$2.00 \$244.00		1	Acre	\$2.00		
Total Fixed Costs \$205.25 \$25,040.50				_		
Total Specified Costs \$1,004.00 \$122,487.89	Total Specified Costs			_	\$1,004.00	\$122,487.89
Returns Above Specified Costs \$436.00 \$53,192.11	Returns Above Specified Costs				\$436.00	\$53,192.11
Breakeven Price to Cover Total Costs \$41.83 Ton	Breakeven Price to Cover Total Costs			\$41.83 T	on	

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.