Projections for Planning Purposes Only -- Not to be Used without Updating 2017 Estimated Costs and Returns per Acre Sorghum (Nitrogen Fertilizer Only) - 500 Acres North Texas Extension District - 4

REVENUE Quantity Units \$(Unit Total Total Total Total Sorghum 33.00 CWT \$6.50 \$214.50 \$107.250.00 Enterprise Total Revenue Total	Crop Acres	500				Fatamaia
Sorghum	REVENLIE	Quantity	Units	\$/LInit	Total	Enterprise Total
VARIABLE COSTS Quantity Units \$/Unit Total Total Total						
VARIABLE COSTS Quantity Units \$/Unit Total Enterprise Total Production Costs Custom Custom Harvest Sorghum 1 Acre \$18.00 \$18.00 \$9,000.00 Custom Harvest Sorghum 1 Acre \$18.00 \$9,000.00 \$9,000.00 Fertilizer 10-34-0 100 Pounds \$0.32 \$32.00 \$16,000.00 82-0-0 100 Pounds \$0.44 \$44.00 \$22,000.00 Herbicide Pre-emerge Sorghum 2 Acre \$14.00 \$28.00 \$114,000.00 Insecticide-Sorghum 1 Acre \$15.00 \$15.00 \$7,500.00 Miscellaneous 1 Acre \$8.00 \$8.00 \$4,000.00 Seed Sorghum Seed 7 Pounds \$2.25 \$15.75 \$7,875.00 Machinery Labor Tractors/Self-Propelled 1.7 Hour \$10.00 \$17.00 \$8,500.00 Repairs & Maintenance Tractors/Self-Propelled 1.2 4.7 4.7 <t< td=""><td>· ·</td><td></td><td>-</td><td>-</td><td>•</td><td>\$107,250.00</td></t<>	· ·		-	-	•	\$107,250.00
Production Costs					·	
Custom Custom Harvest Sorghum Custom Haul Sorghum 1 Acre Sustom Sustom Sustained Susta	VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Total
Custom Harvest Sorghum Custom Haul Sorghum 1 Acre \$0.53 \$18.00 \$17.49 \$9,000.00 \$8,745.00 Fertilizer 10-34-0 82-0-0 100 Pounds \$0.32 \$32.00 \$16,000.00 \$22,000.00 Herbicide Pre-emerge Sorghum 2 Acre \$14.00 \$28.00 \$14,000.00 Insecticide Insecticide-Sorghum 1 Acre \$15.00 \$15.00 \$7,500.00 Miscellaneous Insurance-Sorghum 1 Acre \$8.00 \$8.00 \$4,000.00 Seed Sorghum Seed 7 Pounds \$2.25 \$15.75 \$7,875.00 Machinery Labor Tractors/Self-Propelled 1.7 Hour \$10.00 \$17.00 \$8,500.00 Diesel Fuel Implements 1 Acre \$13.66 \$13.66 \$6,828.92 Interest on Credit Line 2 4.00 \$2.898 \$14,490.00 \$2.898 \$14,490.00 Planned Returns Above Variable Costs 3 4.00 \$2.25 \$1.5.75 \$7,875.00 FIXED COSTS Quantity Units \$/Unit Total \$2.266.95 \$1	Production Costs	-				
Custom Haul Sorghum 33 CWT \$0.53 \$17.49 \$8,745.00	Custom					
Fertilizer	Custom Harvest Sorghum	1	Acre	\$18.00	\$18.00	\$9,000.00
10-34-0	Custom Haul Sorghum	33	CWT	\$0.53	\$17.49	\$8,745.00
Repairs & Maintenance	Fertilizer					
Herbicide	10-34-0	100	Pounds	\$0.32	\$32.00	\$16,000.00
Pre-emerge Sorghum	82-0-0	100	Pounds	\$0.44	\$44.00	\$22,000.00
Insecticide	Herbicide					
Insecticide-Sorghum	Pre-emerge Sorghum	2	Acre	\$14.00	\$28.00	\$14,000.00
Miscellaneous Insurance-Sorghum 1 Acre \$8.00 \$8.00 \$4,000.00 Seed Sorghum Seed 7 Pounds \$2.25 \$15.75 \$7,875.00 Machinery Labor Tractors/Self-Propelled 1.7 Hour \$10.00 \$17.00 \$8,500.00 Diesel Fuel Tractors/Self-Propelled 8.28 Gallon \$3.50 \$28.98 \$14,490.00 Repairs & Maintenance Tractors/Self-Propelled 1 Acre \$13.66 \$13.66 \$6,828.92 Implements 1 Acre \$24.46 \$24.46 \$12,227.81 Interest on Credit Line 4.75% \$4.62 \$2,309.42 Total Variable Costs \$266.95 \$133,476.15 Planned Returns Above Variable Costs: Breakeven Price to Cover Variable Costs \$8.09 CWT Enterprise FIXED COSTS Quantity Units \$/Unit Total Total Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.	Insecticide					
Insurance-Sorghum	Insecticide-Sorghum	1	Acre	\$15.00	\$15.00	\$7,500.00
Seed Sorghum Seed 7 Pounds \$2.25 \$15.75 \$7,875.00	Miscellaneous					
Sorghum Seed 7	Insurance-Sorghum	1	Acre	\$8.00	\$8.00	\$4,000.00
Machinery Labor Tractors/Self-Propelled 1.7 Hour \$10.00 \$17.00 \$8,500.00 Diesel Fuel Tractors/Self-Propelled 8.28 Gallon \$3.50 \$28.98 \$14,490.00 Repairs & Maintenance Implements 1 Acre \$13.66 \$13.66 \$6,828.92 Interest on Credit Line 24.46 \$24.46 \$12,227.81 Interest on Credit Line 4.75% \$4.62 \$2,309.42 Total Variable Costs \$266.95 \$133,476.15 Planned Returns Above Variable Costs: Breakeven Price to Cover Variable Costs \$8.09 CWT Enterprise FIXED COSTS Quantity Units \$/Unit Total Total Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Equipment Investment Tractors/Self-Propelled 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Rent-Dryland Crop 1 Acre \$25.00 \$25.00	Seed					
Tractors/Self-Propelled 1.7 Hour \$10.00 \$17.00 \$8,500.00	Sorghum Seed	7	Pounds	\$2.25	\$15.75	\$7,875.00
Diesel Fuel	Machinery Labor					
Tractors/Self-Propelled 8.28 Gallon \$3.50 \$28.98 \$14,490.00 Repairs & Maintenance Tractors/Self-Propelled 1 Acre \$13.66 \$13.66 \$6,828.92 Implements 1 Acre \$24.46 \$24.46 \$12,227.81 Interest on Credit Line 4.75% \$4.62 \$2,309.42 \$266.95 \$133,476.15	Tractors/Self-Propelled	1.7	Hour	\$10.00	\$17.00	\$8,500.00
Repairs & Maintenance Tractors/Self-Propelled 1 Acre \$13.66 \$13.66 \$6,828.92 Implements 1 Acre \$24.46 \$24.46 \$12,227.81 Interest on Credit Line 4.75% \$4.62 \$2,309.42 Total Variable Costs \$266.95 \$133,476.15 Planned Returns Above Variable Costs \$8.09 CWT Enterprise En	Diesel Fuel					
Tractors/Self-Propelled	Tractors/Self-Propelled	8.28	Gallon	\$3.50	\$28.98	\$14,490.00
Implements	Repairs & Maintenance					
Interest on Credit Line	Tractors/Self-Propelled	1	Acre	\$13.66	\$13.66	\$6,828.92
Total Variable Costs \$266.95	Implements	1	Acre	\$24.46	\$24.46	\$12,227.81
Planned Returns Above Variable Costs: (\$52.45) (\$26,226.15) Breakeven Price to Cover Variable Costs Section 10 (\$26,226.15) FIXED COSTS Quantity Units \$/Unit Total Enterprise Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Interest on Credit Line			4.75%	\$4.62	\$2,309.42
Second	Total Variable Costs			-	\$266.95	\$133,476.15
FIXED COSTS Quantity Units \$/Unit Total Enterprise Total Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Planned Returns Above Variable Costs:			=	(\$52.45)	(\$26,226.15)
FIXED COSTS Quantity Units \$/Unit Total Total Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Breakeven Price to Cover Variable Costs			\$8.09	CWT	,
FIXED COSTS Quantity Units \$/Unit Total Total Machinery Depreciation Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11						Enterprise
Tractors/Self-Propelled 1 Acre \$12.99 \$12.99 \$6,493.12 Implements 1 Acre \$28.14 \$28.14 \$14,071.22 Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs Total Specified Costs \$79.42 \$39,710.96	FIXED COSTS	Quantity	Units	\$/Unit	Total	•
Implements	Machinery Depreciation	•				
Equipment Investment Tractors/Self-Propelled \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Implements \$120.39 Dollars 6.00% \$7.22 \$3,611.61 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Tractors/Self-Propelled	1	Acre	\$12.99	\$12.99	\$6,493.12
Tractors/Self-Propelled Implements \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Implements	1	Acre	\$28.14	\$28.14	\$14,071.22
Tractors/Self-Propelled Implements \$101.17 Dollars 6.00% \$6.07 \$3,035.01 Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Equipment Investment					
Rent-Dryland Crop 1 Acre \$25.00 \$25.00 \$12,500.00 Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Tractors/Self-Propelled	\$101.17	Dollars	6.00%	\$6.07	\$3,035.01
Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Implements	\$120.39	Dollars	6.00%	\$7.22	\$3,611.61
Total Fixed Costs \$79.42 \$39,710.96 Total Specified Costs \$346.37 \$173,187.11	Rent-Dryland Crop	1	Acre	\$25.00	\$25.00	\$12,500.00
	Total Fixed Costs			-	\$79.42	\$39,710.96
	Total Specified Costs			=	\$346.37	\$173,187.11
Returns Above Specified Costs (\$131.87) (\$65,937.11	•			=	•	· · ·
	Returns Above Specified Costs				(\$131.87)	(\$65,937.11)
Breakeven Price to Cover Total Costs \$10.50 CWT	Breakeven Price to Cover Total Costs			\$10.50	CWT	

		Examp	Example Breakeven Prices			
Example	Example	To Cover	To Cover			
Yield	Yield	Variable	Total			
Percent	CWT	Costs	Costs			
75%	24.75	\$10.79	\$13.99			
90%	29.70	\$8.99	\$11.66			
100%	33.00	\$8.09	\$10.50			
110%	36.30	\$7.35	\$9.54			
125%	41.25	\$6.47	\$8.40			

Developed by Blake Bennet, Associate Professor and Extension Economist, Texas A&M AgriLife Extension Service, 972-952-9273.

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.