

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

Crop Acres		122				Enterprise
REVENUE	Quantity	Units	\$/Unit	Total	Total	
Grain Sorghum	55.00	CWT	\$6.50	\$357.50	\$43,615.00	
Total Revenue				\$357.50	\$43,615.00	
VARIABLE COSTS	Quantity	Units	\$/Unit	Total	Enterprise	
<b>Production Costs</b>						
Herbicide						
Seed	Herbicide and Apply Sorghum Irrigate	1	Acre	\$21.12	\$21.12	\$2,576.64
Fertilizer	Seed - Sorghum	4.5	Pound	\$2.40	\$10.80	\$1,317.60
	Fertilizer (N) - Liquid	40	Pound	\$0.39	\$15.63	\$1,906.25
	Fertilizer (P) - Liquid	44	Pound	\$0.57	\$25.24	\$3,078.71
	Fertilizer (N) - NH3	70	Pound	\$0.30	\$21.34	\$2,603.66
Custom	Harvest and Haul - Sorghum	55	CWT	\$0.60	\$33.00	\$4,026.00
	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 - Irrigated	1	Acre	\$29.00	\$29.00	\$3,538.00
Insecticide	Insecticide and Apply Sorghum	1	Acre	\$25.00	\$25.00	\$3,050.00
Irrigation	Energy Cost	9.00	AcreInch	\$10.00	\$90.00	\$10,980.00
	Irrigation Labor	0.75	Hour	\$12.00	\$9.00	\$1,098.00
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	\$15.75	\$15.75	\$1,921.50
	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%	\$8.10	\$987.60
Total Variable Costs				\$354.18	\$43,209.58	
Planned Returns Above Variable Costs:				\$3.32	\$405.42	
Breakeven Price to Cover Variable Costs			\$6.44	CWT		
FIXED COSTS	Quantity	Units	\$/Unit	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	\$30.00	\$30.00	\$3,660.00
	Cash Rent - Sorghum Irrigated	1	Acre	\$100.00	\$100.00	\$12,200.00
	Whole Farm Insurance	1	Acre	\$2.00	\$2.00	\$244.00
Total Fixed Costs				\$210.25	\$25,650.50	
Total Specified Costs				\$564.43	\$68,860.08	
Returns Above Specified Costs					(\$206.93)	(\$25,245.08)
Breakeven Price to Cover Total Costs			\$10.26	CWT		

Example Breakeven Prices			
Example Yield Percent	Example Yield CWT	To Cover Variable Costs	To Cover Total Costs
75%	41.25	\$8.59	\$13.68
90%	49.50	\$7.16	\$11.40
100%	55.00	\$6.44	\$10.26
110%	60.50	\$5.85	\$9.33
125%	68.75	\$5.15	\$8.21

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.**