Projections for Planning Purposes Only -- Not to be Used without Updating 2014 Estimated Costs and Returns per Acre Coastal Bermudagrass Hay - 100 Acres East Texas Extension District - 5

Crop Acres 100

REVENUE Quantity	Crop Acres	100				Enterprise
Bermuda Hay	REVENUE	Quantity	Units	\$/Unit	Total	
VARIABLE COSTS			Roll	\$50.00	\$350.00	\$35,000.00
VARIABLE COSTS Quantity Units \$\frac{1}{2}\text{Unit} \ Total Total	Total Revenue				\$350.00	. ,
Fertilizer	VARIABLE COSTS	Quantity	Units	\$/Unit	Total	
Nitrogen	Production Costs	•		·		
Phosphate	Fertilizer					
Potash Nitrogen 100 Pound \$0.23 \$17.25 \$3.500.00 Potash 78 Pound \$0.23 \$17.25 \$3.500.00 Potash 78 Pound \$0.23 \$17.94 \$1.794.00 Nitrogen 50 Pound \$0.35 \$35.00 \$3.500.00 Potash 40 Pound \$0.35 \$17.50 \$1.750.00 Lime 0.3333333 Ton \$50.00 \$16.67 \$1.666.67 Custom Baling 2 Roll \$15.00 \$30.00 \$3.000.00 Custom Hay Hauling 2 Roll \$15.00 \$30.00 \$3.000.00 Custom Hay Hauling 2 Roll \$3.00 \$6.00 \$600.00 Custom Hay Hauling 2 Roll \$3.00 \$6.00 \$600.00 Custom Hay Hauling 1.5 Roll \$3.00 \$4.50 \$450.00 Custom Baling 1.5 Roll \$3.00 \$4.50 \$450.00 Custom Hay Hauling 1.5 Roll \$3.00 \$4.50 \$450.00 Custom Hay Hauling 1.5 Roll \$15.00 \$22.50 \$2.250.00 Custom Hay Hauling 1.5 Roll \$15.00 \$22.50 \$2.250.00 Custom Hay Hauling 1.5 Roll \$3.00 \$4.50 \$450.00 Machinery Labor Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80 Gasoline Pickup/General Use Equipment 1 Acre \$8.13 \$8.13 \$81.250 Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$30.60 Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$30.60 Pickup/General Use Equipment 1 Acre \$1.91 \$	Nitrogen		Pound			. ,
Nitrogen	•					
Potash Nitrogen 100 Pound \$0.23 \$17.94 \$1,794.00 Potash 78 Pound \$0.23 \$17.94 \$1,794.00 Potash 78 Pound \$0.23 \$17.50 \$17.50 \$1,750.00 Potash 40 Pound \$0.35 \$17.50 \$1,750.00 Potash 40 Pound \$0.35 \$17.50 \$1,750.00 Elime \$0.3333333 Ton \$50.00 \$16.67 \$1,666.67 Elime \$0.3333333 Ton \$50.00 \$30	Potash		Pound			
Nitrogen	Nitrogen		Pound			\$3,500.00
Potash Nitrogen 50	Potash					
Nitrogen	Nitrogen		Pound	\$0.35	\$35.00	\$3,500.00
Potash 40						. ,
Lime						
Custom Baling	Potash	40	Pound	\$0.23		\$920.00
Custom Baling	Lime	0.3333333	Ton	\$50.00	\$16.67	\$1,666.67
Custom Hay Hauling						
Custom Baling Custom Hay Hauling 2 Roll \$15.00 \$30.00 \$3,000.00 Custom Hay Hauling 1.5 Roll \$3.00 \$6.00 \$600.00 Custom Baling 1.5 Roll \$15.00 \$22.50 \$2,250.00 Custom Baling 1.5 Roll \$15.00 \$22.50 \$2,250.00 Custom Hay Hauling 1.5 Roll \$15.00 \$22.50 \$2,250.00 Custom Hay Hauling 1.5 Roll \$15.00 \$22.50 \$2,250.00 Machinery Labor Tractors/Self-Propelled 0.62 Hour \$10.00 \$6.20 \$620.00 Diesel Fuel Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80 Gasoline Pickup/General Use Equipment 1 Acre \$8.13 \$81.3 \$812.50 Repairs & Maintenance Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$306.00 Interest on Credit Line 1 Acre \$1.91 \$1.91 \$191.30	•		Roll			\$3,000.00
Custom Hay Hauling				\$3.00	\$6.00	\$600.00
Custom Baling			Roll	\$15.00	\$30.00	\$3,000.00
Custom Hay Hauling	Custom Hay Hauling		Roll	\$3.00	\$6.00	\$600.00
Custom Baling	Custom Baling	1.5	Roll	\$15.00	\$22.50	\$2,250.00
Custom Hay Hauling 1.5 Roll \$3.00 \$4.50 \$450.00 Machinery Labor	Custom Hay Hauling	1.5	Roll	\$3.00	\$4.50	\$450.00
Machinery Labor Tractors/Self-Propelled 0.62 Hour \$10.00 \$6.20 \$620.00 Diesel Fuel Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80 Gasoline Pickup/General Use Equipment Repairs & Maintenance Pickup/General Use Equipment Implements 1 Acre \$8.13 \$8.13 \$812.50 Repairs & Maintenance Pickup/General Use Equipment Implements 1 Acre \$3.06 \$3.06.00 \$306.00 Tractors/Self-Propelled 1 Acre \$5.87 \$5.87 \$587.01 Interest on Credit Line 4.75% \$4.17 \$416.83 Total Variable Costs \$371.33 \$37,133.10 Planned Returns Above Variable Costs: Breakeven Price to Cover Variable Costs \$53.05 Roll FIXED COSTS Quantity Units \$/Unit Total Enterprise FIXED COSTS Quantity Units \$/Unit Total Enterprise FIXED COSTS Quantity Units \$/Unit Total \$3.21 \$3.21 \$3.21 \$3.21 \$3.21 \$3.21 \$3	Custom Baling	1.5	Roll	\$15.00	\$22.50	\$2,250.00
Tractors/Self-Propelled 0.62 Hour \$10.00 \$6.20 \$620.00 Diesel Fuel Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80 Gasoline Pickup/General Use Equipment 1 Acre \$8.13 \$8.13 \$812.50 Repairs & Maintenance Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$306.00 Tractors/Self-Propelled 1 Acre \$5.87 \$5.87 \$557.01 Implements 1 Acre \$1.91 \$1.91 \$191.30 Interest on Credit Line 4.75% \$371.33 \$37,133.10 Planned Returns Above Variable Costs \$33.05 Roll FIXED COSTS Quantity Units \$\sqrt{Unit} Total Machinery Depreciation Pickup/General Use Equipment 1 Acre \$3.21 \$3.21 \$321.30 FIXED COSTS Quantity Units \$\sqrt{Unit} Total Machinery Depreciation Pickup/General Use Equipment 1 Acre \$3.21 \$3.21 \$321.30 Tractors/Self-Propelled 1 Acre \$3.21 \$3.21 \$321.30 Tractors/Self-Propelled 1 Acre \$5.20 \$5.20 \$519.92 Implements 1 Acre \$5.25 \$2.15 \$215.21 Equipment Investment Pickup/General Use Equipment \$38.25 Dollars 5.25% \$3.08 \$308.18 Implements \$16.74 Dollars 5.25% \$3.08 \$308.18 Implements \$16.74 Dollars 5.25% \$0.88 \$37.88 Total Specified Costs \$387.86 \$38,786.40	Custom Hay Hauling	1.5	Roll	\$3.00	\$4.50	\$450.00
Diesel Fuel Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80 Gasoline Pickup/General Use Equipment 1 Acre \$8.13 \$8.13 \$812.50 Repairs & Maintenance Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$306.00 Tractors/Self-Propelled 1 Acre \$5.87 \$5.87 \$5.87 \$5.87 \$1.91	Machinery Labor					
Tractors/Self-Propelled 1.6 Gallon \$3.28 \$5.25 \$524.80	Tractors/Self-Propelled	0.62	Hour	\$10.00	\$6.20	\$620.00
Pickup/General Use Equipment 1 Acre \$8.13 \$8.13 \$812.50	Diesel Fuel					
Pickup/General Use Equipment Repairs & Maintenance Pickup/General Use Equipment 1 Acre \$3.06 \$3.06 \$306.00 Tractors/Self-Propelled 1 Acre \$5.87 \$5.87 \$587.01 Implements 1 Acre \$1.91 \$1.91 \$191.30 Interest on Credit Line 4.75% \$4.17 \$416.83 Total Variable Costs \$53.05 Roll Enterprise River Ri	Tractors/Self-Propelled	1.6	Gallon	\$3.28	\$5.25	\$524.80
Repairs & Maintenance	Gasoline					
Pickup/General Use Equipment 1	Pickup/General Use Equipment	1	Acre	\$8.13	\$8.13	\$812.50
Tractors/Self-Propelled Implements 1 Acre St.95 \$5.87 \$587.01 Implements Implements Interest on Credit Line 1 Acre Acre St.91 \$1.91 \$191.30 Total Variable Costs 4.75% \$4.17 \$416.83 Planned Returns Above Variable Costs: Breakeven Price to Cover Variable Costs \$53.05 Roll Enterprise Enterprise FIXED COSTS Quantity Units \$/Unit Total Total Machinery Depreciation Pickup/General Use Equipment Tractors/Self-Propelled 1 Acre Acre St.20 \$3.21 \$321.30 Tractors/Self-Propelled Investment Pickup/General Use Equipment Tractors/Self-Propelled St.70 \$38.25 Dollars Dollars Dollars St.25% \$2.01 \$200.81 Tractors/Self-Propelled St.70 \$16.74 Dollars St.25% \$3.08 \$308.18 Implements Implements St.65 \$16.53 \$1.653.30 \$387.86 \$387.86 Total Specified Costs \$387.86 \$387.86.40 \$387.86.40	Repairs & Maintenance					
Implements 1	Pickup/General Use Equipment	1	Acre	\$3.06	\$3.06	\$306.00
Interest on Credit Line	Tractors/Self-Propelled	1	Acre	\$5.87	\$5.87	\$587.01
State Stat	Implements	1	Acre	\$1.91	\$1.91	\$191.30
Planned Returns Above Variable Costs S53.05 Roll Enterprise Total	Interest on Credit Line			4.75%	\$4.17	\$416.83
State	Total Variable Costs				\$371.33	\$37,133.10
State	Planned Returns Above Variable Costs:				(\$21.33)	(\$2,133,10)
Pickup/General Use Equipment 1 Acre \$3.21 \$3.21 \$321.30				\$53.05		(4=,:::::)
Machinery Depreciation Pickup/General Use Equipment 1 Acre \$3.21 \$3.21 \$321.30 Tractors/Self-Propelled 1 Acre \$5.20 \$5.20 \$519.92 Implements 1 Acre \$2.15 \$2.15 \$215.21 Equipment Investment Pickup/General Use Equipment \$38.25 Dollars 5.25% \$2.01 \$200.81 Tractors/Self-Propelled \$58.70 Dollars 5.25% \$3.08 \$308.18 Implements \$16.74 Dollars 5.25% \$0.88 \$87.88 Total Fixed Costs \$16.53 \$1,653.30 Returns Above Specified Costs \$387.86 \$38,786.40				*		Enterprise
Machinery Depreciation Pickup/General Use Equipment 1 Acre \$3.21 \$3.21 \$321.30 Tractors/Self-Propelled Implements 1 Acre \$5.20 \$5.20 \$519.92 Implements 1 Acre \$2.15 \$2.15 \$215.21 Equipment Investment Pickup/General Use Equipment Tractors/Self-Propelled \$38.25 Dollars 5.25% \$2.01 \$200.81 Tractors/Self-Propelled Implements \$58.70 Dollars 5.25% \$3.08 \$308.18 Total Fixed Costs \$16.74 Dollars 5.25% \$0.88 \$87.88 Total Specified Costs \$16.53 \$1,653.30 \$387.86 \$387.86.40 Returns Above Specifiied Costs (\$37.86.40)	FIXED COSTS	Quantity	Units	\$/Unit	Total	•
Pickup/General Use Equipment 1				****		
Tractors/Self-Propelled Implements 1 Acre \$5.20 \$5.20 \$519.92 Implements Investment Pickup/General Use Equipment Tractors/Self-Propelled Implements \$38.25 Dollars 5.25% \$2.01 \$200.81 Tractors/Self-Propelled Implements \$58.70 Dollars 5.25% \$3.08 \$308.18 Implements \$16.74 Dollars 5.25% \$0.88 \$87.88 Total Fixed Costs \$16.53 \$1,653.30 \$16.53 \$1,653.30 Total Specified Costs \$387.86 \$38,786.40 Returns Above Specifiied Costs (\$37.86) (\$3,786.40)		1	Acre	\$3.21	\$3.21	\$321.30
Implements		1	Acre	\$5.20	\$5.20	\$519.92
Equipment Investment Pickup/General Use Equipment Pickup/General Use Equipment Pickup/General Use Equipment State Propelled	•	1	Acre		·	
Pickup/General Use Equipment Tractors/Self-Propelled Implements \$38.25 \$58.70 Dollars Dollars 5.25% 5.25% \$3.08 \$30.81 \$308.18 \$308.18 Total Fixed Costs \$16.74 Dollars 5.25% \$0.88 \$87.88 Total Specified Costs \$16.53 \$1,653.30 \$387.86 \$387.86.40 Returns Above Specified Costs (\$37.86) (\$37.86.40)	•			•	•	•
Tractors/Self-Propelled Implements \$58.70 Dollars 5.25% \$3.08 \$308.18 \$308.18 \$16.74 Dollars 5.25% \$0.88 \$87.88 \$7.88 \$16.53 \$1.653.30 \$1.653.30 \$387.86 \$387.86 \$387.86 \$387.86 \$387.86 \$387.86 \$387.86 \$387.86 \$387.86 \$37.		\$38.25	Dollars	5.25%	\$2.01	\$200.81
Implements						
Total Fixed Costs \$16.53 \$1,653.30 Total Specified Costs \$387.86 \$38,786.40 Returns Above Specified Costs (\$37.86) (\$3,786.40)					•	
Total Specified Costs \$387.86 \$38,786.40 Returns Above Specified Costs (\$37.86) (\$3,786.40)	•					
Returns Above Specifiied Costs (\$37.86) (\$3,786.40)						
	. Sta. Specified Goote				Ψοστ.30	400,700.70
Breakeven Price to Cover Total Costs \$55.41 Roll	Returns Above Specifiied Costs				(\$37.86)	(\$3,786.40)
	Breakeven Price to Cover Total Costs			\$55.41	Roll	

	Example Breakeven Prices									
Example	Example	Price Neede	Price Needed to Cover		Price Needed to Cover					
Yield	Yield	Example Va	Example Variable Costs		Example Total Costs					
Percent	Roll	Own/Rent	ShareTenant	Own/Rent	ShareTenant	Landlord				
75%	5.25	\$70.73	\$70.73	\$73.88	\$73.88	\$0.00				
90%	6.30	\$58.94	\$58.94	\$61.57	\$61.57	\$0.00				
100%	7.00	\$53.05	\$53.05	\$55.41	\$55.41	\$0.00				
110%	7.70	\$48.22	\$48.22	\$50.37	\$50.37	\$0.00				
125%	8.75	\$42.44	\$42.44	\$44.33	\$44.33	\$0.00				

Developed by Extension Economists, Texas A&M AgriLife Extension Service.

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.