## Projections for Planning Purposes Only -- Not to be Used without Updating 2018 Estimated Costs and Returns per Acre Irrigated Alfalfa Hay Rolling Plains Extension District - 3

Crop Acres 100

Alfalfa Hay				****		Enterprise
VARIABLE COSTS	REVENUE	Quantity	Units	\$/Unit	Total	Total
Name	· · · · · · · · · · · · · · · · · · ·	6.50	Ion	\$200.00	- ' '	
VARIABLE COSTS   Quantity   Units   \$/Unit   Total   Total	Total Revenue				\$1,300.00	. ,
Production Costs						•
New Part		Quantity	Units	\$/Unit	Total	Total
Herbicide Application						
Insecticide Application						
Fertilizer Application	• • • • • • • • • • • • • • • • • • • •			*	*	
Custom Baling - Alfalfa	• • • • • • • • • • • • • • • • • • • •				·	. ,
Fertilizer   Fertilizer (N)	• •					
Fertilizer (N)   30    Pound   \$0.41    \$12.30    \$1,230.00   Fertilizer (P)   50    Pound   \$0.34    \$17.00    \$1,700.00		6.5	Ton	\$25.00	\$162.50	\$16,250.00
Fertilizer (P)   50    Pound   \$0.34    \$17.00    \$1,700.00    \$300.00						
Sulfur						
Herbicide				•	•	\$1,700.00
Valpar		12	Pound	\$0.25	\$3.00	\$300.00
Butyrac   2   Pint   \$3.75   \$7.50   \$750.00     Insecticide	Herbicide					
Insecticide	Valpar	_	Pint	\$11.88	\$23.75	\$2,375.00
Insecticide - Alfalfa 1	Butyrac	2	Pint	\$3.75	\$7.50	\$750.00
Insecticide - Alfalfa 2 Baythroid   3 Fluid Ounce   \$1.05   \$3.16   \$316.41	Insecticide					
Irrigation	Insecticide - Alfalfa 1	2	Pint	\$4.12	\$8.24	\$824.00
Energy Cost	Insecticide - Alfalfa 2 Baythroid	3	Fluid Ounce	\$1.05	\$3.16	\$316.41
Irrigation Labor	Irrigation					
Pickup/General Use Equipment Repairs & Maintenance   Pickup/General Use Equipment   1   Acre   \$1.81   \$1.81   \$181.13     Irrigation Equipment   1   Acre   \$20.00   \$20.00   \$2,000.00     Interest on Credit Line   5.75%   \$5.35   \$534.76     Total Variable Costs   \$325.96   \$325.96.33     Planned Returns Above Variable Costs   \$50.15   Ton     Breakeven Price to Cover Variable Costs   \$50.15   Ton     Enterprise   FIXED COSTS   Quantity   Units   \$/Unit   Total     Machinery Depreciation   Pickup/General Use Equipment   1   Acre   \$2.51   \$2.51   \$251.46     Irrigation Equipment   1   Acre   \$12.00   \$12.00   \$1,200.00     Equipment Investment   Pickup/General Use Equipment   \$17.61   Dollars   5.50%   \$0.97   \$96.88     Irrigation Equipment   \$350.00   Dollars   5.50%   \$19.25   \$1,925.00     Coa Allocated Establishment Cost   1   Acre   \$78.00   \$78.00   \$7,800.00     Coa Allocated Costs   \$187.73   \$18,773.34     Total Specified Costs   \$513.70   \$51,369.67	Energy Cost	10.00	AcreInch	\$1.20	\$12.00	\$1,200.04
Pickup/General Use Equipment Repairs & Maintenance   Pickup/General Use Equipment   1   Acre   \$1.81   \$1.81   \$181.13   \$18	Irrigation Labor	0.96	Hour	\$10.00	\$9.60	\$960.00
Repairs & Maintenance	Gasoline					
Pickup/General Use Equipment	Pickup/General Use Equipment	1	Acre	\$6.75	\$6.75	\$675.00
Irrigation Equipment	Repairs & Maintenance					
Interest on Credit Line	Pickup/General Use Equipment	1	Acre	\$1.81	\$1.81	\$181.13
Total Variable Costs   \$325.96   \$325.96.33	Irrigation Equipment	1	Acre	\$20.00	\$20.00	\$2,000.00
Planned Returns Above Variable Costs   \$974.04 \$97,403.67	Interest on Credit Line			5.75%	\$5.35	\$534.76
State   Stat	Total Variable Costs				\$325.96	\$32,596.33
FIXED COSTS   Quantity   Units   \$/Unit   Total   Total	Planned Returns Above Variable Costs:			=	\$974.04	\$97,403.67
FIXED COSTS   Quantity   Units   \$/Unit   Total   Total	Breakeven Price to Cover Variable Costs			\$50.15 T	on	* - ,
PIXED COSTS   Quantity   Units   \$/Unit   Total   Total				*		Enterprise
Machinery Depreciation         Pickup/General Use Equipment         1         Acre         \$2.51         \$2.51         \$251.46           Irrigation Equipment Investment         1         Acre         \$12.00         \$12.00         \$1,200.00           Equipment Investment Pickup/General Use Equipment Irrigation Equipment         \$17.61         Dollars         5.50%         \$0.97         \$96.88           Irrigation Equipment Cost Intrigation Equipment Cost Cash Rent - Irrigated Alfalfa         1         Acre         \$78.00         \$78.00         \$7,800.00           Cash Rent - Irrigated Alfalfa         1         Acre         \$75.00         \$75.00         \$7,500.00           Total Fixed Costs         \$187.73         \$18,773.34           Total Specified Costs         \$513.70         \$51,369.67	FIXED COSTS	Quantity	Units	\$/Unit	Total	•
Pickup/General Use Equipment         1         Acre         \$2.51         \$2.51         \$251.46           Irrigation Equipment         1         Acre         \$12.00         \$12.00         \$1,200.00           Equipment Investment         ***         <	Machinery Depreciation	,				•
Irrigation Equipment   1   Acre   \$12.00   \$12.00   \$1,200.00		1	Acre	\$2.51	\$2.51	\$251.46
Equipment Investment         Pickup/General Use Equipment       \$17.61       Dollars       5.50%       \$0.97       \$96.88         Irrigation Equipment       \$350.00       Dollars       5.50%       \$19.25       \$1,925.00         Coa Allocated Establishment Cost       1       Acre       \$78.00       \$78.00       \$7,800.00         Cash Rent - Irrigated Alfalfa       1       Acre       \$75.00       \$75.00       \$7,500.00         Total Fixed Costs       \$187.73       \$18,773.34         Total Specified Costs       \$513.70       \$51,369.67		1	Acre	\$12.00	\$12.00	\$1,200.00
Pickup/General Use Equipment Irrigation Equipment         \$17.61         Dollars         5.50%         \$0.97         \$96.88           Irrigation Equipment         \$350.00         Dollars         5.50%         \$19.25         \$1,925.00           Coa Allocated Establishment Cost Cash Rent - Irrigated Alfalfa         1         Acre         \$78.00         \$78.00         \$7,800.00           Total Fixed Costs         \$187.73         \$187.73.34         \$187.73.34           Total Specified Costs         \$513.70         \$51,369.67				•	•	, ,
Irrigation Equipment         \$350.00         Dollars         5.50%         \$19.25         \$1,925.00           Coa Allocated Establishment Cost         1         Acre         \$78.00         \$78.00         \$7,800.00           Cash Rent - Irrigated Alfalfa         1         Acre         \$75.00         \$75.00         \$7,500.00           Total Fixed Costs         \$187.73         \$18,773.34           Total Specified Costs         \$513.70         \$51,369.67		\$17.61	Dollars	5.50%	\$0.97	\$96.88
Coa Allocated Establishment Cost         1         Acre         \$78.00         \$7,800.00           Cash Rent - Irrigated Alfalfa         1         Acre         \$75.00         \$7,500.00           Total Fixed Costs         \$187.73         \$18,773.34           Total Specified Costs         \$513.70         \$51,369.67	•		Dollars	5.50%		
Cash Rent - Irrigated Alfalfa       1       Acre       \$75.00       \$7,500.00         Total Fixed Costs       \$187.73       \$18,773.34         Total Specified Costs       \$513.70       \$51,369.67	•					
Total Fixed Costs         \$187.73         \$18,773.34           Total Specified Costs         \$513.70         \$51,369.67					•	
Total Specified Costs \$513.70 \$51,369.67				_		
				_		
Returns Above Specified Costs \$786.30 \$78,630.33	Total Opcomed Oosts			_	ψ515.70	ψο1,000.07
	Returns Above Specified Costs				\$786.30	\$78,630.33
Breakeven Price to Cover Total Costs \$79.03 Ton	Breakeven Price to Cover Total Costs			\$79.03 T	on	

		Examp	Example Breakeven Prices			
Example	Example	To Cover	To Cover			
Yield	Yield	Variable	Total			
Percent	Ton	Costs	Costs			
75%	4.88	\$66.86	\$105.37			
90%	5.85	\$55.72	\$87.81			
100%	6.50	\$50.15	\$79.03			
110%	7.15	\$45.59	\$71.85			
125%	8.13	\$40.12	\$63.22			

Developed by Extension Economists, Texas A&M AgriLife Extension Service, budgets@tamu.edu.

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.