## Projections for Planning Purposes Only -- Not to be Used without Updating 2014 Estimated Costs and Returns per Acre Alfalfa, Full Season, Baled - 7.5 Ton Goal, Flood Irrigated - 122 Acres Far West Extension District - 6

Crop Acres 122

Alfalla Hay - 3X4	DEVENUE		O	11-24-	<b>(</b> ) ( ) - : t	T-4-1	Enterprise
VARIABLE COSTS	REVENUE	v - 3¥4	Quantity	Units	\$/Unit	Total \$1,800,00	Total \$219,600,00
VARIABLE COSTS			7.50	1011	Ψ240.00		
VARIABLE COSTS   Quantity   Units   S/Unit   Total   Total	Total Neverlac	•				ψ1,000.00	
Production Costs   Fertilizer	VARIABLE CO	OSTS	Quantity	Units	\$/Unit	Total	
Fertilizer   Fer			Quartity	011110	φ,σ	rotar	70101
Fertilizer 11-52-0							
Herbicide		Fertilizer 11-52-0	73	Pound	\$0.26	\$18.98	\$2.315.56
Pursuit	Herbicide				• • • •	,	* *-
Crop Oil Concentrate		Trifluralin	2	Pint	\$3.25	\$6.50	\$793.00
Pursuit		Pursuit	1	Ounce	\$2.65	\$2.65	\$323.30
Pursuit		Crop Oil Concentrate	1	Pint	\$2.50	\$2.50	\$305.00
Pursuit			1	Ounce			
Crop Oil Concentrate		Crop Oil Concentrate	1	Pint	\$2.50	\$2.50	\$305.00
Pursuit		Pursuit	1	Ounce	\$2.65	\$2.65	\$323.30
Crop Oil Concentrate		Crop Oil Concentrate	1	Pint	\$2.50	\$2.50	\$305.00
Pursuit		Pursuit	1	Ounce	\$2.65	\$2.65	\$323.30
Crop Oil Concentrate		Crop Oil Concentrate	1	Pint	\$2.50	\$2.50	\$305.00
Insecticide		Pursuit	1	Ounce	\$2.65	\$2.65	\$323.30
Warrior Z   3.2   Ounce   \$1.36   \$5.22   \$637.13     Warrior Z   3.2   Ounce   \$1.36   \$4.35   \$530.94     Intrepid   2.31   Ounce   \$1.67   \$3.86   \$470.64     Custom   Soil Test   0.5   Each   \$5.00   \$2.50   \$305.00     Custom Apply Fertilizer   1   Acre   \$4.00   \$4.00   \$488.00     Irrigation   Energy or Water Cost   40.77   Mcf   \$4.25   \$173.26   \$21,137.17     Energy or Water Cost   40.77   Mcf   \$4.25   \$173.26   \$21,137.17     Irrigation Labor   0.91   Hour   \$11.00   \$9.96   \$1.214.64     Machinery Labor   Tractors/Self-Propelled   4.42   Hour   \$12.00   \$53.04   \$6,470.88     Diesel Fuel		Crop Oil Concentrate	1	Pint	\$2.50	\$2.50	\$305.00
Warrior Z   3.2   Ounce   \$1.36   \$4.35   \$530,94     Intrepid   2.31   Ounce   \$1.67   \$3.86   \$470.64     Custom   Soil Test   Custom Apply Fertilizer   1   Acre   \$4.00   \$4.00   \$488.00     Irrigation   Energy or Water Cost   40.77   Mcf   \$4.25   \$173.26   \$21,137.17     Irrigation Labor   O.91   Hour   \$11.00   \$9.96   \$1.214.64     Machinery Labor   Tractors/Self-Propelled   30.02   Gallon   \$2.85   \$85.56   \$10,437.95     Gasoline   Pickup/General Use Equipment   1   Acre   \$7.88   \$7.88   \$961.38     Repairs & Maintenance   Pickup/General Use Equipment   1   Acre   \$18.98   \$18.98   \$2.215.56     Interest on Credit Line   1   Acre   \$1.61   \$196.20     Interest on Credit Line   1   Acre   \$1.89   \$11.93   \$12.05     Interest on Credit Line   57.89   \$1.237   \$11.237   \$15.08.84     Implements   1   Acre   \$1.69   \$12.37   \$11.237   \$15.08.84     Implements   1   Acre   \$0.99   \$0.99   \$120.66     Interest on Credit Line   58.04   \$1.005.87     Total Variable Costs   58.04   \$1.005.87     Planned Returns Above Variable Costs   Fire to Cover Variable Costs   \$59.07     Machinery Depreciation   Pickup/General Use Equipment   1   Acre   \$6.03   \$6.03   \$735.75     Irrigation Equipment   1   Acre   \$2.482   \$24.82   \$3.028.33     Tractors/Self-Propelled   1   Acre   \$3.41   \$3.41   \$415.43     Equipment Investment   Pickup/General Use Equipment   1   Acre   \$3.41   \$3.41   \$415.43     Equipment Investment   Pickup/General Use Equipment   1   Acre   \$3.41   \$3.41   \$415.43     Equipment Investment   Pickup/General Use Equipment   \$40.20   Dollars   6.50%   \$3.5.07   \$4.279.05     Implements   \$72.532   S88.488.62     Repair	Insecticide	9					
Intrepid   Custom		Warrior Z	3.84	Ounce	\$1.36	\$5.22	\$637.13
Custom   Soil Test   Custom   Apply Fertilizer   1   Acre   \$4.00   \$4.00   \$488.00		Warrior Z	3.2	Ounce	\$1.36	\$4.35	\$530.94
Soil Test		Intrepid	2.31	Ounce	\$1.67	\$3.86	\$470.64
Custom Apply Fertilizer	Custom						
Irrigation		Soil Test	0.5	Each	\$5.00	\$2.50	\$305.00
Energy or Water Cost		Custom Apply Fertilizer	1	Acre	\$4.00	\$4.00	\$488.00
Irrigation Labor	Irrigation						
Machinery Labor Tractors/Self-Propelled   4.42   Hour   \$12.00   \$53.04   \$6,470.88		Energy or Water Cost	40.77	Mcf	\$4.25	\$173.26	\$21,137.17
Tractors/Self-Propelled		Irrigation Labor	0.91	Hour	\$11.00	\$9.96	\$1,214.64
Diesel Fuel	Machinery	Labor					
Diesel Fuel		Tractors/Self-Propelled	4.42	Hour	\$12.00	\$53.04	\$6,470.88
Pickup/General Use Equipment	Diesel Fue						
Pickup/General Use Equipment		Tractors/Self-Propelled	30.02	Gallon	\$2.85	\$85.56	\$10,437.95
Repairs & Maintenance	Gasoline	•					
Pickup/General Use Equipment		Pickup/General Use Equipment	1	Acre	\$7.88	\$7.88	\$961.38
Irrigation Equipment	Repairs &	Maintenance					
Tractors/Self-Propelled   1   Acre   \$12.37   \$12.37   \$1508.84   Implements   1   Acre   \$0.99   \$0.99   \$120.66   \$120.65   \$8.24   \$1.005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$12.37   \$12.3	·		1	Acre	\$1.61	\$1.61	\$196.20
Tractors/Self-Propelled   1   Acre   \$12.37   \$12.37   \$1508.84   Implements   1   Acre   \$0.99   \$0.99   \$120.66   \$120.65   \$8.24   \$1.005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$1500.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$1005.87   \$12.37   \$15.08.84   \$12.37   \$12.3			1	Acre	\$18.98	\$18.98	\$2,315.56
Interest on Credit Line			1	Acre	\$12.37		
Total Variable Costs		Implements	1	Acre	\$0.99	\$0.99	\$120.66
Planned Returns Above Variable Costs: Breakeven Price to Cover Variable Costs   \$59.07 Ton   \$1,356.96   \$165,549.06   \$	Interest or	Credit Line			6.50%	\$8.24	\$1,005.87
Breakeven Price to Cover Variable Costs	Total Variable	Costs			•	\$443.04	
Breakeven Price to Cover Variable Costs	Planned Retur	ns Above Variable Costs:			-	\$1,356,96	
Pickup/General Use Equipment   1   Acre   \$6.03   \$6.03   \$735.75					\$59.07		ψ. του, σ. το. το
FIXED COSTS         Quantity         Units         \$/Unit         Total         Total           Machinery Depreciation             Pickup/General Use Equipment					******		Enterprise
Machinery Depreciation Pickup/Ceneral Use Equipment         1         Acre         \$6.03         \$6.03         \$735.75           Irrigation Equipment         1         Acre         \$24.82         \$24.82         \$3,028.33           Tractors/Self-Propelled         1         Acre         \$37.73         \$3,773         \$4,603.24           Implements         1         Acre         \$3.41         \$3.41         \$415.43           Equipment Investment         Pickup/General Use Equipment         \$40.20         Dollars         6.50%         \$2.61         \$318.83           Irrigation Equipment         \$372.34         Dollars         6.50%         \$24.20         \$2,952.63           Tractors/Self-Propelled         \$539.60         Dollars         6.50%         \$35.07         \$4,279.05           Implements         \$51.95         Dollars         6.50%         \$33.38         \$411.99           Allocated Establishment Cost         1         Acre         \$105.02         \$105.02         \$12,812.44           Trans Pecos Irrigated Land         1         Acre         \$40.00         \$4.880.00           Total Fixed Costs         \$725.32         \$88,488.62           Returns Above Specified Costs         \$1,074.68         \$131,111.38	FIXED COSTS	3	Quantity	Units	\$/Unit	Total	
Pickup/General Use Equipment			-			***	
Irrigation Equipment	,		1	Acre	\$6.03	\$6.03	\$735.75
Tractors/Self-Propelled Implements         1         Acre         \$3.7.73         \$3,7.73         \$4,603.24           Implements         1         Acre         \$3.41         \$3.41         \$415.43           Equipment Investment         Pickup/General Use Equipment         \$40.20         Dollars         6.50%         \$2.61         \$318.83           Irrigation Equipment         \$372.34         Dollars         6.50%         \$24.20         \$2,952.63           Tractors/Self-Propelled         \$539.60         Dollars         6.50%         \$35.07         \$4,279.05           Implements         \$51.95         Dollars         6.50%         \$3.38         \$411.99           Allocated Establishment Cost         1         Acre         \$105.02         \$105.02         \$12,812.44           Trans Pecos Irrigated Land         1         Acre         \$40.00         \$4,800.00           Total Fixed Costs         \$282.28         \$34,437.68           Total Specified Costs         \$725.32         \$88,488.62    Returns Above Specifiied Costs  \$1,074.68         \$131,111.38							
Implements							
Equipment Investment         \$40.20         Dollars         6.50%         \$2.61         \$318.83           Irrigation Equipment         \$372.34         Dollars         6.50%         \$24.20         \$2,952.63           Tractors/Self-Propelled         \$539.60         Dollars         6.50%         \$35.07         \$4,279.05           Implements         \$51.95         Dollars         6.50%         \$3.38         \$411.99           Allocated Establishment Cost         1         Acre         \$105.02         \$105.02         \$12.812.44           Trans Pecos Irrigated Land         1         Acre         \$40.00         \$40.00         \$48.80.00           Total Fixed Costs         \$282.28         \$34.437.68           Total Specified Costs         \$725.32         \$88,488.62   Returns Above Specified Costs  \$1,074.68  \$131,111.38			1				
Pickup/General Use Equipment   \$40.20   Dollars   6.50%   \$2.61   \$318.83     Irrigation Equipment   \$372.34   Dollars   6.50%   \$24.20   \$2,952.63     Tractors/Self-Propelled   \$539.60   Dollars   6.50%   \$35.07   \$4,279.05     Implements   \$51.95   Dollars   6.50%   \$33.38   \$411.99     Allocated Establishment Cost   1   Acre   \$105.02   \$105.02   \$12,812.44     Trans Pecos Irrigated Land   1   Acre   \$40.00   \$44.00   \$4,880.00     Total Fixed Costs   \$282.28   \$34,437.68     Total Specified Costs   \$725.32   \$88,488.62     Returns Above Specified Costs   \$1,074.68   \$131,111.38	Equipmen				• •	**	•
Irrigation Equipment			\$40.20	Dollars	6.50%	\$2.61	\$318.83
Tractors/Self-Propelled   \$539.60   Dollars   6.50%   \$35.07   \$4,279.05   Implements   \$51.95   Dollars   6.50%   \$33.38   \$411.99     Allocated Establishment Cost   1   Acre   \$105.02   \$105.02   \$12,812.44     Trans Pecos Irrigated Land   1   Acre   \$40.00   \$4.880.00     Total Fixed Costs   \$282.28   \$34,437.68     Total Specified Costs   \$725.32   \$88,488.62     Returns Above Specified Costs   \$1,074.68   \$131,111.38							
Implements							
Allocated Establishment Cost 1 Acre \$105.02 \$105.02 \$12,812.44 Trans Pecos Irrigated Land 1 Acre \$40.00 \$40.00 \$4,880.00 Total Fixed Costs \$282.28 \$34,437.68 Total Specified Costs \$1,074.68 \$131,111.38							
Trans Pecos Irrigated Land         1         Acre         \$40.00         \$40.00         \$4,880.00           Total Fixed Costs         \$282.28         \$34,437.68           Total Specified Costs         \$725.32         \$88,488.62           Returns Above Specified Costs         \$1,074.68         \$131,111.38	Allocated						
Total Fixed Costs         \$282.28         \$34,437.68           Total Specified Costs         \$725.32         \$88,488.62           Returns Above Specified Costs         \$1,074.68         \$131,111.38							
Total Specified Costs         \$725.32         \$88,488.62           Returns Above Specified Costs         \$1,074.68         \$131,111.38					Ţ.0.00		
Returns Above Specifiied Costs \$1,074.68 \$131,111.38					=		
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Breakeven Price to Cover Total Costs \$96.71 Ton	Returns Above	e Specifiied Costs				\$1,074.68	\$131,111.38
	Breakeven I	Price to Cover Total Costs			\$96.71	Ton	

			Example Breakeven Prices						
Example	Example	Price Neede	ed to Cover	Price Needed to Cover					
Yield	Yield	Example Va	ariable Costs	Example Total Costs					
Percent	Ton	Own/Rent	ShareTenant	Own/Rent	ShareTenant	Landlord			
75%	5.63	\$78.76	\$78.76	\$128.95	\$128.95	\$0.00			
90%	6.75	\$65.64	\$65.64	\$107.45	\$107.45	\$0.00			
100%	7.50	\$59.07	\$59.07	\$96.71	\$96.71	\$0.00			
110%	8.25	\$53.70	\$53.70	\$87.92	\$87.92	\$0.00			
125%	9.38	\$47.26	\$47.26	\$77.37	\$77.37	\$0.00			

Developed by Rob Hogan, Associate Professor and Extension Economist, Texas A&M AgriLife Extension.

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.