

Seeking a Resilient Future

CMU 10-5-14
Paul Kehmeier



Stand Longevity Results

What the plots looked like in early May 2014
After 2 years of irrigation treatments



Irrigated 1 time
per year



Irrigated 2 times
per year



Irrigated 3 times
per year

Stand Longevity Results

What a nearby portion looked like in early May 2014



Irrigated less than any of the test plots

Paul Kehmeier Eckert, CO 2013 Crop Enterprise Budget: Alfalfa Hay 3 irrigations and 3 cuttings

	Unit	Price or Cost per Unit	Quantity per acre	Value or Cost per acre	Value or cost per bale
Gross Receipts From Production					
Hay	bales	\$6.65	93	\$618.45	\$6.65
Direct Costs					
Crop expenses					
Seed	lbs			\$0.00	\$0.00
Fertilizer (product cost only)	lbs			\$0.00	\$0.00
Custom application of fertilizer	acre		1.00	\$0.00	\$0.00
Herbicide 1	quarts			\$0.00	\$0.00
Herbicide 2	quarts			\$0.00	\$0.00
Insecticide and aerial application 1	acre	\$14.84	1.00	\$14.84	\$0.16
Insecticide and aerial application 2	acre		1.00	\$0.00	\$0.00
Twine	hay bale	\$0.08	93	\$7.81	\$0.08
Owned irrigation water	cfs	\$12.03	3.10	\$37.29	\$0.40
Leased irrigation water	cfs			\$0.00	\$0.00
Total crop expenses				\$59.95	\$0.64
Machinery and irrigation system expenses					
Fuel and oil for farm equipment (M.H. = Machine Hour)	M.H.	\$5.83	2.68	\$15.62	\$0.17
Fuel and oil for pickup trucks	acre	\$2.99	1.00	\$2.99	\$0.03
Repair and Maintenance: Machinery	M.H.	\$5.48	2.68	\$14.69	\$0.16
Repair and Maintenance: Irrigation equipment	acre	\$0.85	1.00	\$0.85	\$0.01
Total machinery and irrigation system expenses				\$34.15	\$0.37
Total Operating Costs				\$94.10	\$1.01
Property and Ownership Costs					
Ownership costs: Machinery	M.H.	\$5.24	2.68	\$14.04	\$0.15
Ownership costs: Irrigation equipment	acre	\$36.05	1.00	\$36.05	\$0.39
General farm overhead	acre	\$16.79	1.00	\$16.79	\$0.18
Real estate taxes	acre	\$5.49	1.00	\$5.49	\$0.06
Total Property and Ownership Costs				\$72.37	\$0.78
Total Direct Costs				\$166.47	\$1.79
Net Income from Hay (Return to Management and Labor) 3 irrigations, 3 cuttings				\$451.98	\$4.86
Information from a separate plot that had 2 irrigations and 3 cuttings:					
Net Income from Hay (Return to Management and Labor)				\$248.38	\$3.55
Information from a separate plot that had 1 irrigation and 2 cuttings:					
Net Income from Hay (Return to Management and Labor)				-\$3.61	-\$0.21