

**837D2 Soil Type - Allamakee County
Corn Production Costs - 2016**

Costs from ISU 2016		
Estimated Cost of Production	Est Yield /ac - NRCS Soil Survey	
	158	
Preharvest Machinery		
Operation		Cost/ac
Chisel Plow		\$7.50
Tandem Disk		\$6.40
Nitrogen Application		\$10.10
Field Cultivate		\$5.10
Plant		\$11.10
Spray		\$4.20
Total Pre Harvest Machine		\$44.40

Seed/Chemical/Fertilizer - ISU 2016 costs of production		
Seed		
\$/1000 Kernals	3.71	\$118.72
Kernals/ac	32000	
Nitrogen		
\$/pound	0.4	\$70.00
pounds/ac	175	
Phosphate		
\$/pound	0.45	\$22.95
pounds/ac	51	
Potash		
\$/pound	0.35	\$12.25
pounds/ac	35	
Lime		\$8.80
Herbicide		\$38.10
Insecticide		\$18.80
Crop Insurance		\$12.20
Misc		\$10.00
Interest on Variable Costs		\$11.52
Months	8	
Rate(%)	5.20%	
Seed/Chem/Fert Total		\$323.34

Costs from ISU 2016		
Estimated Cost of Production		
Harvest/Drying Costs		
Combine		\$29.00
Grain cart		\$8.90
Haul		\$11.06
Fixed Price per bu	\$0.04	
Variable Price per bu	\$0.03	
Drying		\$28.44
Fixed Price per bu	\$0.05	
Variable Price per bu	\$0.13	
Total		\$77.40

Handling		\$6.32
Fixed Price per bu	\$0.02	
Variable Price per bu	\$0.02	
Labor		
Hours	\$2.85	\$37.05
\$/hour	\$13.00	
Hired Labor		
Hours	\$0.00	\$0.00
\$/hour	\$11.00	
Land Costs		
Cash Rent Equivalent- CRP rental rate		\$219.00

Total Cost per Acre	\$707.51
Total Cost per Bushel	\$4.48

Total Revenue	617.78
Expected Price	\$3.91
Expected Yield*	158 bushels

Net Per Acre	-\$89.73
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*Soil Type 837D2 - NRCS Soil Survey

*fertilizer rates from ISU PM1566 and PM1714
updated yields from eFOTG 3/16/16

**837D2 Soil Type - Allamakee County
Grazing Stockers on improved pasture**

Animals/ acre*		1.5	
Costs from ISU 2015 "Livestock Enterprise Budgets for Iowa"			
Animal Costs		Per Head	Per Acre
Purchase Cost		\$900.00	\$1,350.00
Purchase Weight	450		
Purchase Price	\$2.00		
Vet cost		\$5.00	\$7.50
Machinery and Equipment		\$4.25	\$6.38
Marketing Transport Misc		\$12.00	\$18.00
Death Loss %	1	\$9.00	\$13.50
Labor			
	Hours	1	\$14.00
	\$/hour	14	
Interest			
	Rate (%)	5	\$18.75
	Months	5	
Total Animal Costs		\$963.00	\$1,444.50

Costs from ISU 2012 "Estimated Costs of Pasture and Hay Production" and "Estimated Costs of Crop Production in Iowa -2016"

Pasture Costs			
Machinery		\$8.73	\$13.10
Fertilizer, Herbicide		\$18.33	\$27.50
Labor		\$13.00	\$19.50
Land - (CRP rental rate)		\$146.00	\$219.00
Initial Cost Amortization		\$45.55	\$68.33
Total Pasture Costs		\$231.62	\$347.43

Total Costs		\$1,194.62	\$1,791.93
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Income			
Days on Pasture	138		
Gain Lbs Per Day	1.7		
Total Gain		234.6	351.9
Final Weight		684.6	1026.9
Selling Price \$/lb	\$1.76		
Final Revenue		\$1,204.90	\$1,807.34

		Per Head	Per Acre
Net Revenue		\$10.28	\$15.41

*NRCS Livestock Forage Balance Worksheet

837D2 Soil Type - Allamakee County
Cow Calf on Improved Pasture -Assuming Cattle are Owned and Pasture Provides All Feed

Acres Per Cow Calf Pair	2.2
Grazing Season length(Days)	138

Animal Costs*		Annual Cost/ Cow Unit	Grazing Season Cost/ Cow Unit	Per Acre
Vet cost		\$25.00	\$9.45	\$4.30
Machinery and Equipment		\$15.00	\$5.67	\$2.58
Marketing Transport Misc		\$20.00	\$7.56	\$3.44
Labor				
Hours	8	\$112.00	\$42.35	\$19.25
\$/hour	14			
Interest				
Rate (%)	5	\$3.58	\$1.35	\$0.62
Months	5			
Total Animal Costs		\$175.58	\$66.38	\$30.17

Pasture Costs				
Machinery***			\$28.82	\$13.10
Fertilizer, Herbicide***			\$60.50	\$27.50
Labor***	1.5 hours @ \$13/hr		\$42.90	\$19.50
Land***			\$481.80	\$219.00
Initial Cost Amortization**			\$150.33	\$68.33
Total Pasture Costs**			\$764.35	\$347.43
Total Costs			\$830.73	\$377.60

Income			\$945.00	\$429.55
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Calf Weight at Weaning	525
\$/lb	\$1.80
\$/Calf	\$945.00

Net Revenue			\$114.27	\$51.94
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*From ISU 2015 "Livestock Production Cost Estimate"

**From ISU AG-96 "Estimated Cost of Pasture and Hay Production"

***From ISU A1-20 "Estimated Costs of Crop Production in Iowa - 2016"

****CRP rental rate

837D2 Soil Type - Allamakee County

Cow Calf on Bluegrass Pasture, Continuous Grazing -Assuming Cattle are Owned and Pasture Provides All Feed

Acres Per Cow Calf Pair*	3.5
Grazing Season length(Days)*	138

Animal Costs From ISU 2015 "Livestock Production Cost Estimate"				
		Annual Cost/ Cow Unit	Grazing Season Cost/ Cow Unit	Per Acre
Vet cost		\$25.00	\$9.45	\$2.70
Machinery and Equipment		\$15.00	\$5.67	\$1.62
Marketing Transport Misc		\$20.00	\$7.56	\$2.16
Labor				
Hours	8			
\$/hour	14	\$112.00	\$42.35	\$12.10
Interest				
Rate (%)				
Months	5	\$3.58	\$1.35	\$0.39
	5			
Total Animal Costs		\$175.58	\$66.38	\$18.97

Pasture Costs from ISU 2015 "Livestock Production Cost Estimate"				
Machinery			\$45.85	\$13.10
Fertilizer, Herbicide			\$96.25	\$27.50
Labor			\$68.25	\$19.50
Land***			\$766.50	\$219.00
Initial Cost Amortization			\$239.16	\$68.33
Total Pasture Costs			\$1,216.01	\$347.43
Total Costs			\$1,282.39	\$366.40

Income				
Calf Weight at Weaning	475		\$921.50	\$263.29
\$/lb	\$1.94			
\$/Calf	\$921.50			
Net Revenue			-\$360.89	-\$103.11

*NRCS Livestock Forage Balance Worksheet

From ISU 2015 "Livestock Production Cost Estimate"

From ISU AG-96 "Estimated Cost of Pasture and Hayland"

***CRP rental rate

**837D2 Soil Type - Allamakee County
Grazing vs Baling**

Costs of Producing Hay from ISU 2016 Estimated Cost of Production	Tons Per Acre	
Seeding and Maintenance of Stand	4	6
1/3 of Establishment Cost		
Machinery, Seed, Lime, Herbicide	\$55.28	\$57.93
Annual Fertilizer 0-13-50/ ton	\$100.10	\$148.21
Total	\$155.38	\$206.14

Harvest and Land Cost Large Round Bales		
Mow, Rake, Bale, Haul	\$117.24	\$159.20
Labor	\$51.87	\$69.16
Cuttings	3	4
Hours per Cutting	1.33	1.33
\$/ hour	\$13.00	\$13.00
Land Cost - \$219 CRP rental, \$250 All. Co. Avg.	\$219.00	\$250.00
Total Harvest and Land Cost	\$388.11	\$478.36

Total Cost /ac	\$543.49	\$684.50
Total Cost per Ton	\$135.87	\$114.08

Cost to Purchase Hay		460	690
Price/ton*	115		
Net Production vs Purchase	per acre	-\$83.49	\$5.50
	Per Ton	-\$20.87	\$0.92

* Used most recent hay sale in Ft. Atkinson