GRAZING COVER CROPS FOR PROFIT



practicalfarmers.org







FARMER-LED RESEARCH

Why Graze Cover Crops?

Extend grazing season in fall and spring

Provide relief to spring pastures

Provide a fresh, clean calving pasture

Save \$\$ and reduce reliance on stored feed

Deposit manure where needed

Increased carrying capacity

Grazing Cover Crops Adds Value



Economic Returns & Soil Health Benefits



But how much value?

Ben Albright Lytton, IA Rye and oats seeded on 9/6/16 Picture taken on 11/10/16





Livestock Research

Economic Impact of Grazing Cover Crops in Cow-Calf Operations

Staff Contact:

Meghan Filbert – (515) 232-5661 meghan@practicalfarmers.org

Cooperators:

Wesley Degner - Lytton

Bill Frederick - Jefferson

• Mark Schleisman - Lake City

Funding By:

Iowa Department of Agriculture and Land Stewardship's Water Quality Initiative

Web Link:

http://bit.ly/pfi_livestock

In a Nutshell

- Planting and grazing cover crops is a practical way to effectively reduce nutrient pollution, plus provide shortterm economic returns.
- Three cow-calf producers in northwest Iowa have been grazing cover crops and keeping records to show the economics of this system.
- Utilizing cover crops as forage represents a win-win for livestock producers and water quality.

Key findings:

Three farmers reported that over



IDALS-WQI Project 2015-2021

7 cooperators





Objective

To demonstrate the economic benefits of utilizing cover crops as forage on integrated crop and cattle farms



www.noble.org

Methods – Livestock Feed Requirements

- Dry matter (DM) requirements of cattle during cover crop grazing periods
- # of cows x weight x 4.0% x number of days grazed
 - (2.5-3% daily intake, 0.5 trampling loss, 0.5-1% buffer NRCS)
- Animal weights not taken; assumed maintained weight

20 cows X 1200 lb X 4.0% = 960 lb DM

960 lb DM X 10 days = 9,600 lb DM required

Value of cover crop forage = current market price for hay or other feed



https://www.ams.usda.gov/market-news/hay-reports

- Assume hay costs \$80/ton @ 90% DM
- Supplemental feed accounted for

Methods – Costs

- Cover crop seed, application and termination
- Labor
- Fence and water

*If same costs would have been spent grazing stalks with no cover crop, or herbicide would have been used regardless; costs not included



Table 6 Economic	c impact of gr	azing cover o	rops at each	farm.				
	Wesley	Degner	Bill Fre	ederick	Mark Sch	hleisman		
REVENUE	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017		
Approximate tons of DM required (t)	35	30	76	57	525	656		
Value of grazed forage + crop residue ^x	\$2,793	\$2,398	\$4,571	\$3,174	\$38,735	\$50,670		
Value of cost share payment	\$3,462	\$3,462	\$1,000	\$1,000	\$21,616	\$17,034		
Total added value	\$6,255	\$5,860	\$5,571	\$4,174	\$60,351	\$67,704		
COSTS								
Costs for establishment & termination	\$4,727	\$3,275	\$2,970	\$3,310	\$20,159	\$27,705		
Costs for grazing labor ^y	\$156	\$78	\$520	\$520	\$0	\$0		
Costs for fences, waterers ^y	\$1,017	\$1,017	\$247	\$223	\$0	\$0		
Total added costs	\$5,900	\$4,370	\$3,737	\$4,053	\$20,159	\$27,705		
TOTALS								
Total net economic gain or loss	\$355	\$1,490	\$1,834	\$121	\$40,192	\$39,998		
Net economic gain (loss) per acre	\$4.17	\$17.53	\$19.72	\$1.56	\$60.09	\$47.78		
Net gain (loss) without cost share	\$(3,107)	\$(1,972)	\$834	\$(879)	\$18,576	\$22,965		
Net gain (loss) without cost share per acre	\$(36.55)	\$(23.20)	\$8.96	\$(11.26)	\$27.77	\$27.43		

*See Table 3 for Degner; Table 4 for Frederick; Table 5 for Schleisman.

^yMark Schleisman's labor, fence and waterer costs total \$0 because equal costs would have been spent grazing crop residue alone, therefore no additional costs were incurred when grazing cover crops + crop residue.

Bill Frederick

In 2107, Spring forage value = \$457 Termination costs = \$1,360

"Spring calving young pairs and the health benefits of fresh pasture to calves is worth more than the value of the forage. Rye fields keeps calves clean and dry in the spring."



"The way you make money from cover crops is from decreased inputs, not increased yields," - Bill Frederick



Ag Decision Maker: An agricultural economics and business website



Livestock Whole Farm Business Development Cooperatives Renewable Energy Stay up-to-date with AgDM

AgDM New and Updated Files Crops -- Cost & Return:

Delayed and Prevented Planting Provisions -- A1-57 Delayed and Prevented Planting Provisions -- A1-57 (Decision Tool)

Crops -- Machinery:

Replacement Strategies for Farm Machinery -- A3-30

AgDM Newsletter

Cash rental rates slightly up in Iowa

New online tool can help farmers see value of cover crops and paths to profitability

Watershed improvement practices highlighted in publication series









www.extension.iastate.edu/agdm/

IOWA STAT Extension and Ag Decision Maker		SITY		Google Custom Search	
Recent Updates	Information Files	Decision Tools	Teaching Activities	Voiced Media	Outlook &
Crops > Cost &	Return > Profita	bility			

Homepage Economics of Cover Crops The decision tool, Economics of Cover Crops, provides worksheets to analyze three different Livestock cover crop scenarios: Whole Farm Business Development Projected economic costs and benefits of crop crops without grazing or harvesting · Projected economic costs and benefits of crop crops with grazing or harvesting Cooperatives · Actual economic costs and benefits resulting from cover crops, including grazing or Renewable Energy harvesting. Meet the author Other resources on cover crops include: William Edwards Practical Farmers of Iowa: Grazing Cover Crops fact sheet Practical Farmers of Iowa cover crop information retired economist CARD Cover Crop website Questions? Economic Evaluation of Cover Crops in Midwest Row Crop Farming Iowa Learning Farms



Crops

William Edwards, retired ISU economist. Questions? Email agdm@iastate.edu Alejandro Plastina, extension economist, 515-294-6160, plastina@iastate.edu Meghan Filbert, livestock program manager, Practical Farmers of Iowa, 515-232-5661, meghan@practicalfarmers.org

https://www.extension.iastate.edu/agdm/

File A1-91 Written March, 2018



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Economics of Cover Crops

A

Iowa State University Extension and Outreach - Ag Decision Maker

See the Ag Decision Maker page, Economics of Cover Crops, for more information.

This decision tool contains three different worksheets:

Cover Crops Budget Grazing Cover Crops Budget Grazing Cover Crops Results

For analyzing the projected economic costs and benefits of cover crops, without grazing or harvesting. For analyzing the projected economic costs and benefits of cover crops, with grazing or harvesting. For analyzing the actual economic costs and benefits resulting from cover crops, including grazing or harvesting.

В

More information on the economics of cover crops can be found at:

Practical Farmers of Iowa: Grazing Cover Crops fact sheet, www.practicalfarmers.org/app/uploads/2013/11/Grazing-Cover-Crops-Fact-Sheet-2013.pdf

Practical Farmers of Iowa cover crop information, www.practicalfarmers.org/member-priorities/cover crops/

On-farm research quantifies value of grazing cattle on cover crops, www.practicalfarmers.org/news-events/newsroom/news-release-archive/28152/

CARD Cover Crop website-forthcoming, www.card.iastate.edu/

Version 1.3 32018

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28 29 30 Authors: William Edwards, retired ISU economist,

20 Alejandro Plastina, ISU Extension Economist, 21

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22 Ann Johanns, ISU Extension Program Specialist.

Questions? Email agdm@iastate.edu

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Economics of Cover Crops: Actual Costs and Returns with Grazing and/or Harvesting

Iowa State University Extension and Outreach - Ag Decision Maker See the Ag Decision Maker webpage, <u>Economics of Cover Crops</u>, for more information.

Cells in yellow are for input values.

Name of producer or farm		Example				Ye	ar 20	17-18
Values shown on this sheet are for example purposes only, and d	lo not represent actual resea	rch or producer rea	sults.					
Name or number of field		Field 1	Field 2	Field 3	Field 4	Field 5	Who	ole Farm
Costs for establishing the cover crop					•			
			cereal rye,					
Types of cover crops seeded		cereal rye	turnips	oats				
Total acres of cover crop seeded	acres	50	40	25				1
Cost for seed type 1	\$ per acre	\$ 10.00	\$ 10.00	\$ 9.00			\$	1,1
Cost for seed type 2	\$ per acre		\$ 11.00				\$	4
Seeding or drilling, custom rate (if custom hired)	\$ per acre	\$ 15.00	\$ 15.00	\$ 15.00			\$	1,7
Seeding or drilling, variable costs (if done by operator)	\$ per acre						\$	-
Operator labor for seeding or drilling	total hours per field							
Value of operator labor	\$ 15.00	/hour					\$	-
Total establishment costs		\$ 1,250	\$ 1,440	\$ 600	\$-	\$-	\$	3,2
Added costs for terminating the cover crop (beyond nor	nal practices)	Field 1	Field 2	Field 3	Field 4	Field 5	Wby	le Farm

Added costs for terminating the cover crop (beyond normal prace	ctices)	Field 1	Field 2	Field 3	Field 4	Field 5	Whole Farm
Additional herbicide applied for termination	\$ per acre	\$ 13.00	\$ 13.00				\$ 1,1
Applying additional herbicide, custom rate (if not in line above)	\$ per acre	\$ 6.50	\$ 6.50				\$ 5
Applying additional herbicide, variable costs (if done by operator)	\$ per acre						\$ -
Added tillage, custom rate (if custom hired)	\$ per acre						\$ -
Added tillage, variable costs (if done by operator)	\$ per acre						\$-
Added operator labor for terminating cover crop	total hours per field						\$ -
Total costs for terminating the cover crop		\$ 975	\$ 780	\$ -	\$ -	\$ -	\$ 1,7



Yield Data + Other Payments

29								
30	Other income or costs							
31	Yield impact on cash crop following cover crop	_	Field 1	Field 2	Field 3	Field 4	Field 5	Whole Farm
32	Crop following the cover crop		soybeans	corn	corn			
33	Expected yield of the crop when not following a cover crop	bushels per acre	65	200	200			
34	Expected selling price of crop following cover crop	\$ per bushel	\$ 9.00	\$ 3.20	\$ 3.20			
35	Expected percentage yield change (+ or -)	%	2%	0%	-1%			
33 34 35 36 37	Net value of yield impact	\$ per acre	\$ 11.70	\$-	\$ (6.40)	\$ -	\$-	\$ 42
38	Cost share payments and crop insurance discounts received	_						
39	Value of cost share payment received	\$ per acre	\$ 25.00	\$ 15.00	\$ 25.00			\$ 2,47
40	Value of crop insurance premium discount	\$ per acre						\$ -
41	Acres in field receiving cost share payment or crop insurance discount	Acres	50	40	25			
42								
43	Other added or reduced costs for cover crops	_	Field 1	Field 2	Field 3	Field 4	Field 5	Whole Farm
44	Cash rent paid if acres are rented just for seeding cover crops	\$ per acre						\$ -
45	Other added costs for cover crops acres (irrigation fuel, etc.)	\$ per acre						\$ -
46	Other reduced costs due to cover crops (erosion control, cash rent, etc.	\$ per acre						\$-
47								



Harvest Costs & Value

102								
103 <mark> </mark>	larvesting cover crops (leave the following section blank if cov	ver crops are not ha	rvested for fora	ge				
104 <mark>E</mark>	stimated costs and returns for harvesting forage	_	Field 1	Field 2	Field 3	Field 4	Field 5	Whole Farm
105	Acres harvested							0
106 107	Total amount of forage harvested	tons						
107	Value or price per ton	\$ per ton						
108	otal value of harvested forage	\$ per ton	\$-	\$-	\$-	\$-	\$-	\$-
109 E	Enter variable costs or custom charge	-						_
110	Mowing	\$ per acre						\$ -
111	Windrowing or raking	\$ per acre						\$ -
112	Harvesting (baling, chopping, etc.)	\$ per ton						\$ -
113	Handling and hauling	\$ per ton						\$ -
114	Added labor for harvesting cover crop	total hours per field						\$ -
115	otal	•	\$-	\$ -	\$ -	\$ -	\$ -	- \$-



Summary of economic impact

Summary of direct economic impact of cover crops		Field 1	Field 2	Field 3	Field 4	Field 5	<u> </u>	Whole Farm	Per Acre	Per	Animal-Unit
Total acres of cover crop seeded	acres	50	 40	 66	 18	 48		222	 		
Value of yield impact on cash crops following cover crops	\$	(320)	\$ (256)	\$ (422)	\$ 162	\$ 432	\$	6 (404)	\$ (1.82)	/ \$	(6.72)
Added income											
Value of cost share payment received	\$	625	\$ 400	\$ 480	\$ 1,008	\$ -	\$	5 2,513	\$ 11.32	\$	41.78
Value of crop insurance premium discount	\$; -	\$ -	\$ -	\$ -	\$ 220	\$	5 220	\$ 0.99	\$	3.66
Value of reduced costs and labor due to cover crops	\$	5 186	\$ 148	\$ 245	\$ 67	\$ 178	\$	6 824	\$ 3.71	\$	13.70
Value of feed replaced by grazing cover crops	\$	5 1,721	\$ 1,377	\$ 2,271	\$ 619	\$ -	\$	5,988	\$ 26.97	\$	99.55
Value of forage harvested from cover crops	\$,	\$ -	\$ -	\$ -	\$ 1,875	\$	5 1,875	\$ 8.45	\$	31.17
Total added income	\$	2,531	\$ 1,925	\$ 2,996	\$ 1,694	\$ 2,273	\$	5 11,420	\$ 51.44	\$	189.86
Added costs											
Added costs for establishing cover crops	\$	5 1,286	\$ 1,020	\$ 948	\$ 384	\$ 768	\$	6 4,406	\$ 19.85	\$	73.25
Added costs for terminating cover crops	\$	-	\$ -	\$ 498	\$ -	\$ -	\$	498	\$ 2.24	\$	8.28
Other added costs for cover crops (cash rent, irrigation, etc.)	\$; -	\$ -	\$ -	\$ -	\$ -	\$	· -	\$ -	\$	-
Added costs for labor for grazing cover crops	\$	6 81	\$ 65	\$ 107	\$ 29	\$ 78	\$	360	\$ 1.62	\$	5.99
Added costs for investment in fences, waterers	\$	660	\$ 167	\$ 665	\$ 112	\$ 648	\$	5 2,252	\$ 10.14	\$	37.44
Added costs for mechanically harvesting cover crops	\$; -	\$ -	\$ -	\$ -	\$ 1,273	\$	5 1,273	\$ 5.74	\$	21.17
Total added costs	\$	2,027	\$ 1,251	\$ 2,218	\$ 525	\$ 2,768	\$	8,789	\$ 39.59	\$	146.12
Total net economic gain or loss per year	\$	184	\$ 418	\$ 356	\$ 1,331	\$ (62)	\$	2,226	\$ 10.03	\$	37.01
Total net economic gain or loss per acre	\$	3.68	\$ 10.44	\$ 5.39	\$ 73.96	\$ (1.30)	1 \$	5 10.03			

Revenue – Costs = Net Profit (forage value)



Added value not accounted for

Note: this analysis does not take into account the long-term impacts of cover crops on soil health, soil erosion, nutrient retention, or other benefits.

Version 1.3_32018 Authors: William Edwards, retired ISU economist, Meghan Filbert, livestock program manager, Practical Farmers of Iowa, and Ann Johanns, ISU Extension Program Specialist. <u>Questions? Email agdm@iastate.edu</u>

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- Nutritional value of forage
- manure deposition
- effect of grazing on plant and root growth
- cattle health
- resting perennial pastures



Wesley Degner

- Planted 85 acres of cereal rye in 2016, 293 acres in 2017 and 279 acres in 2018
- 170 bu/ac corn in 2015, 210 bu/ac in 2016, 230 bu/ac in 2017



"Putting cows on the cover crops makes it worth it. I probably wouldn't do much of it if I didn't reap these benefits."

- Wesley Degner



Photo courtesy of Lynn Betts





10/26/2017



Mark Schleisman, 2017-2018

- Triticale, rye, rapeseed, radish, oats =\$23.00/acre
- Drilled or air seeded = \$9.50/acre



https://www.americanagriculturist.com/cover-crops/cost-shared-air-seeding-cover-crops-flying-high





Mark Schleisman, 2017-2018

- 370 cow-calf pairs grazed fall, winter, spring
- Stalks available in fall & winter
- Feed 50% of TMR in spring
- Cover crop forage valued at \$110/ton
- Fall + winter grazing > spring grazing
- Fence & water already in place
- Termination costs = pre-plant burndown

Net Economic Revenue, 2017-2018							
	Per Acre	Per AU					
With cost-share	th cost-share \$107						
Total revenue = \$117,133							
Without cost-share	\$87	\$71					
Total revenue = \$93,643							
Costs saved/AU/day when grazing cover crops = \$1.84							



Partial Budget Example

Partial budget comparing costs and returns between grazing corn stalks vs. cover crops and corn stalks at Mark Schleisman's farm in 2015-2016. **Corn Stalks Corn Stalks + Cover Crops** \$/ac Costs \$/ac Costs \$13,805 Grazing labor \$728 Cover crop seed Fence and water \$1,239 Cover crop application \$6,354 Supplemental feed¹ \$13,722 Grazing labor \$728 Fence and water \$1,239 Supplemental feed \$3,296 TOTAL COSTS TOTAL COSTS \$15,689 \$25,442 \$/ac Returns Returns \$/ac Value of corn stalk¹ Value of grazed forage + crop residue \$38,735 \$28,278 \$28,278-\$15,689 = | RETURNS - COSTS \$38,735 - \$25,442 = **RETURNS - COSTS** \$12,589 \$13.293 ¹This examples assumes corn stalks provide 67% and supplemental feed provides 33% of winter feed requirements valued at \$80/ton and 90% DM (Williams, 2014). ²Herbicides used for termination part of pre-plant burn down and not changed to cover crop.

*Cost-share for cover crops not included, which totaled \$21,616.

Other benefits: better consumption of stalks, potential crop yield increases, soil erosion control, increase water infiltration.....

Corn Stalks		Corn Stalks + Cover Crops				
Costs	\$/ac	Costs	\$/ac			
Grazing labor	\$728	Cover crop seed	\$13,805			
Fence and water	\$1,239	Cover crop application	\$6,354			
Supplemental feed ¹	\$13,722	Grazing labor	\$728			
		Fence and water	\$1,239			
		Supplemental feed	\$3,296			
		Supplementarieea	\$9,20			

Control over winter feed costs

The price of hay in Iowa in April 2018 was ~\$150/ton

Mark Schleisman

"We started planting cereal rye because it was easy to calve in. Now, most all of our covers are grazed as a way to justify the costs."

"My dad ran 200 cow-calf pairs on the same acres that we now run 360 pairs on. Because we graze cover crops, we're producing more on the same amount of land."

Harvest as an alternative to grazing



Table 1 Nutrient compositions of spring harvested rye forage.

	Average	Range
Yield D.M.Tons/acre	2.37	1.34 – 3.88
RFQ	180	149-205
CP %	16.2	9.5 – 17.5
ADF %	27.6	24.6 – 31.4
NDF %	52.2	47.2 - 66.0
P %	0.39	0.29 -0.48
K %	3.05	2.10 – 4.37

U of Wisconsin, Fall Forage Rye for Dairy Heifers and Dry Cows, 2010



Denise Schwab, ISU Extension Beef Specialist

Fred Abels, Holland, IA

Harvested rye on May 23 *"Heard you could get 6 tn/ac and up to 22% CP"* Got 6 tn/ac on 18 acres = 108 tons, put up in 3 hours, 11% CP



Jim Larson, Sioux Rapids, IA

Put up rye on May 22 – first heads were coming out Cut, then put up the next day Choppers estimate was 330 tons of silage from 28 acres = 11.8 tons/acre "Both fields were more mature then I like but now I know ways to get it up right and will sure share with others"



Do you work for your cows or do your cows work for you?



Soil Health Benefits = Future Profits

Soil Health Benefits



- The Pasture Project, Wallace-Winrock Center
- Federal Conservation Innovation Grant
- 4 years of soil data, 8 farms
- 2015-2018

Control = corn/soybean with no cover **Treatment** = corn/soybean + 6 species cc mix with grazing




Compaction Results, Maxwell, IA



Data from 8 farms, 2015-2018

Plot	рН	ОМ	CEC	K/Mg	Ca/Mg
Con	6.51	3.86	22.13	0.15	5.30
Trt	6.54	3.97	24.76	0.16	4.77

Plot	тос	IC	ТС
Con	275	12.4	289
Trt	307	30.2	338



	TLMB										
Con	2537	1.39	1328	875	293	33	489	223	68	154	15
Trt	3071	1.41	1670	1064	352	36	606	296	98	198	26

OM = organic matter, TC = Total carbon (inorganic + organic), TLMB = total living microbial biomass



GRAZING COVER CROPS: A HOW-TO GUIDE

DEVELOPED IN PARTNERSHIP WITH:







http://pastureproject.org/resources

Lessons Learned

- Fall + winter grazing > spring grazing
- Spring termination costs can exceed spring grazing value
- In some cases, cost-share can make or break it
- Early establishment + wait to graze
- Grazing covers has the potential to put money back in your pocket within the same year of planting
- Roots in the ground, active grazing, and manure = soil health



Lessons Learned cont...

- In corn & bean systems, profitability windows are slimmer
- Diverse rotations & small grains = windows open wide
- Small grains provide straw = additional profit
- Small grain summer cover crop fall cover crop
- Pair annual forages with perennial pasture for year-round grazing

The Perfect Pairing Grazing cover crops gives an immediate payback. STORY AND PHOTOS BY LYNN BETTS Vost crop farmers expect cover crops to serve as a long-term payback from a short-term cost. But, that's not the case with farmers who graze cover case with farmers who graze cover crops, says Meghan Filbert, livestock crops, says megnan enoert, investock coordinator with the Practical Farmers

cattlelink

"They see an immediate return on a cover-I ney see an immediate return on a cover-investment," she explains. "Winter feed for c of Iowa (PFI). Investment, she explaints, while recursor largest cost in any cattle operation—grazin/ saves them from having to buy or grow ha Feed for cattle was part of Wes and Dr reed for carrie was part of view and Dr thinking when they first tried cover crop their operation, near Lytton, in eastern "We were hoping to save soil, nutrient our cropland, but we also wanted to

the cows, wes says. The Degners harvest high-moist the cows, Wes says. drill cereal rye into cornstalks lat tried seeding by plane into grow seed with fertilizer and incorpc seeu with receiver and incurr They've had success with each quickly, they can graze cover quients uner can Braze cover mid-October up to late Nov TRIM THE FEED BILL. "The feed cows," Wes says. "I \$3,000 a year in 65 acres." The father at to blanket 285

feed co		-
and son	Crop Topics	
5 acres		
	CAUS	
1	in fields	uld solls and

Wheat

Crops



Contract Grazing

• Win-win for graziers and row croppers

• Opportunity for beginning farmers

• Funding to focus on this



FENCE

WATER

practicalfarmers.org/programs/cover-



<u>farmers</u>

n Filbert am Manager mers of Iowa lfarmers.org 515) 232-5661

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Ag tech for contract grazing

- "Uber" for cover crops
- Grazing brokerage
- Virtual fencing



Need fence for cover crops?

ICA and PFI are working to reduce barriers for cattlemen and women interested in grazing cover crops

- Would you like to graze more cover crop acres?
- Would cost-share opportunities for fence and water help you?

Text "covercrops" to 313131 for link to survey Fill out by January 25

ARE YOU A GRAZIER

who would enjoy getting together with other like-minded livestock farmers?



practicalfarmers.org

Practical Farmers of Iowa is organizing regional grazing groups across the state.

Meghan Filbert Livestock Program Manager meghan@practicalfarmers.org practicalfarmers.org 515-232-5661

