

Cost of Hay? \$60-80 per ton

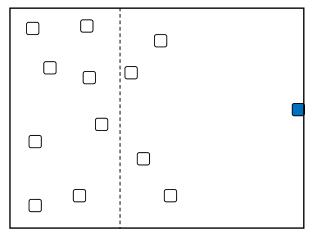
Fertilizer Value Estimation for Hay Feeding Excellent Nutrient Distribution				
	Price (\$/unit)		% Effective as Fertilizer	Nutrient Value /Ton
Nitrogen	\$0.40	35	75%	\$10.50
P_2O_5	\$0.30	12	75%	\$2.70
K ₂ O	\$0.30	53	75%	<u>\$11.93</u>
Total		1	1	\$25.13

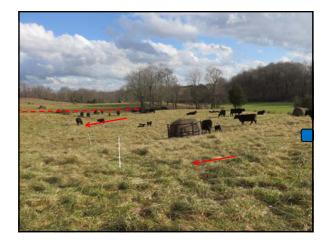












Bale Grazing Requirements

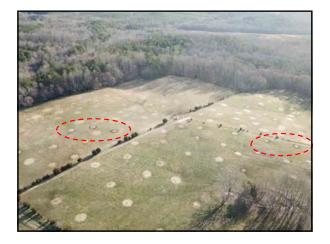
- 1) Advanced planning
- 2) Strength to roll/flip hayring
- 3) Cattle trained to electric
- 4) Healthy sod





Nutrient Value per Acre by Bale Grazing Densities				
Bale Grazing Density	N	P ₂ O ₅	K₂O	Organic Matter
Low (2 tons/acre)	35	18	80	???
Medium (4 tons/acre)	70	36	159	???
High (6 tons/acre)	105	54	239	???









Seeding Mix Recommendation

- Chicory
- Plantain
- Italian Ryegrass
- Annual Lespedeza
- Clovers
- Orchardgrass







How would the Labor and Machinery Cost Compare?





Jungnitsch Research

Bale Grazing vs. Dry-Lot:

• Bale-grazing directly pasture

• Dry-lot Manure spread pasture

Paul Jungnitsch, 2008 University of Saskatchewan Master's Thesis

Forage Response Two Years			
	lbs / acre	% Inc.	
Control	2098		
Dry Lot - Spread	3019	44%	
Bale Grazing	6843	226%	
Bale Grazing Note: Pasture growth the two Jungnitsch 2008			

Forage Response Protein Levels (1 st year)		
	Protein	% Inc.
Control	10.2%	
Dry Lot - Spread	10.6%	4%
Bale Grazing	18.4%	80%

Cattle Urine
<u>Contains</u> : • 67% of nitrogen (N) • 90% of potassium (K)
How to capture this in drylot? Nutrients most important hay?

Nutrient Value Effective Capture			
Nutrient Capture	25 Cows	50 Cows	100 Cows
10% (Poor)	\$200	\$300	\$700
25% (Fair)	\$400	\$800	\$1,700
50% (Good)	\$800	\$1,700	\$3,400
75% (Excellent)	\$1,300	\$2,500	\$5,000
Note: Assumes 2.0 tons hay/cow per year			

Ohio County Cattle Farmer

"We put in a gravel pad about 7 years ago. We created a wintering area around the gravel pad.

The result was large stockpiles of manure that I didn't have time to spread and was poorly utilized."

Other Advantages Bale Grazing

- Improved nutrition
 - \rightarrow mixing bales with stockpile
- Improved herd health
- \rightarrow Clean coats all winter long









Progressive Forages Bale Grazing Articles:

https://www.progressiveforage. com/forage-types/grasses-andgrazing/winter-bale-grazing

https://www.progressiveforage.com/ forage-production/management/ fertilizer-value-of-hay-feeding