

Establishing alfalfa hay

Presenter
Hudson Hill

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Is a team dedicated to providing objective research based information to Wyoming people - focusing on improving the sustainability of Wyoming lands for horticultural, small acreage, crops and livestock production.

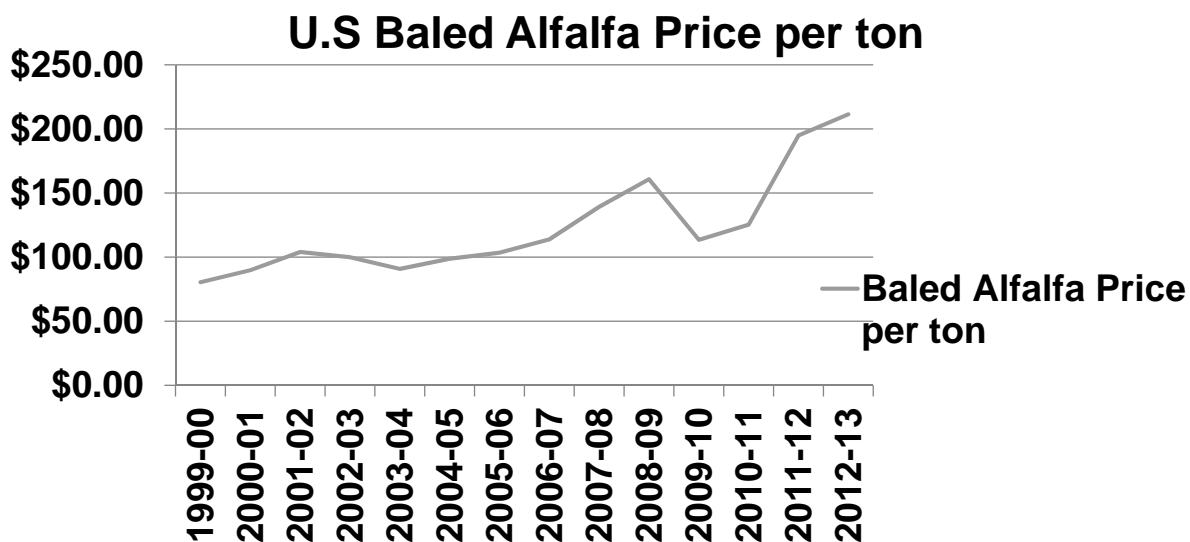


Today

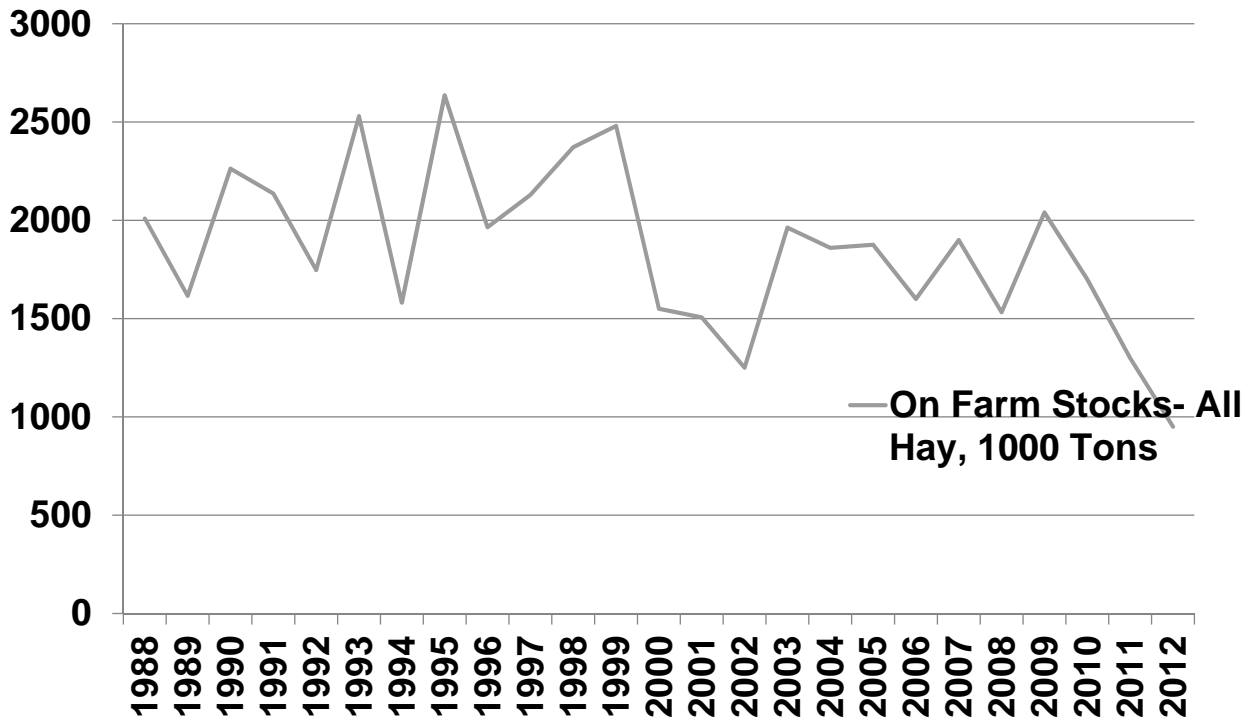
- When does it make financial sense to establish or re-establish alfalfa
- When does it make sense to fertilize
- Answer \$\$\$\$\$\$\$

New hay

➤ When/How do you establish



Wyoming On Farm Stocks- All Hay, 1000 Tons



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1. Establishment Steps

- Rotation schedule
 - When does it make sense for you

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2. Variety selection

- Maybe the most important decisions for long term profit
 - Anwar



3. Time of year

- What works for you
- What works for neighbors



4. preparation

- Seed
- EQ.
- Seedbed
- Pray for rain

5. Dollars and sense

- The right rotation is decision for the manager

My goal was

- When does it make financial sense to establish or re-establish alfalfa

What does establishment cost

- ?

costs

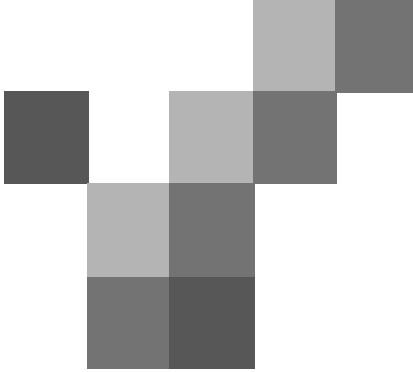
- Disc/plow
- Cultivate
- Seder packer
- Spray/weed control
- Seed
- Herb/pest/fert



Income?

- Establishment year/years –
- Production years +





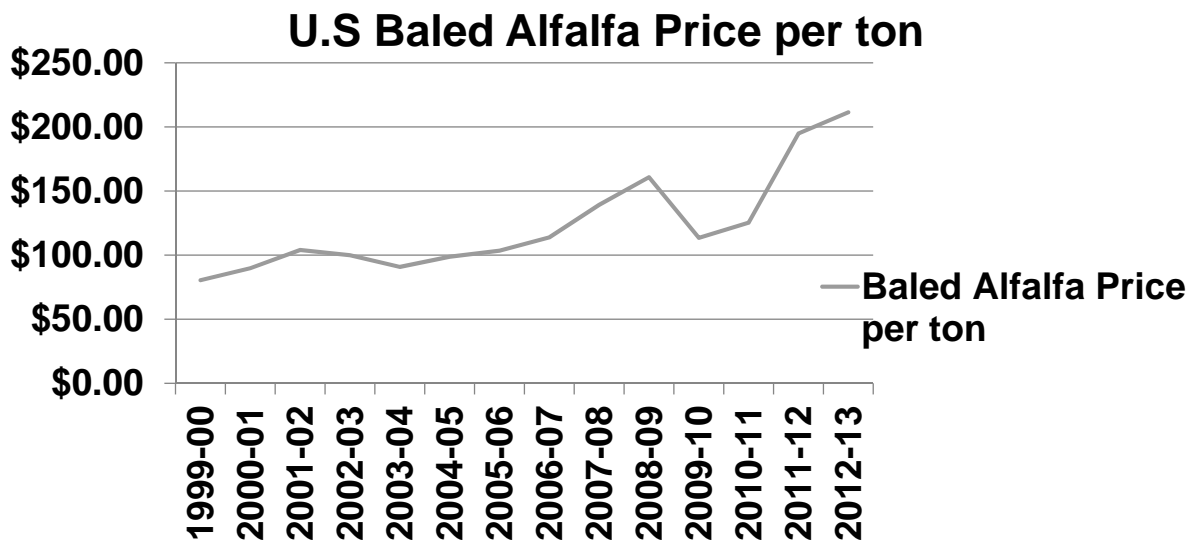
Fertilizing Alfalfa hay

Presenter
Hudson Hill

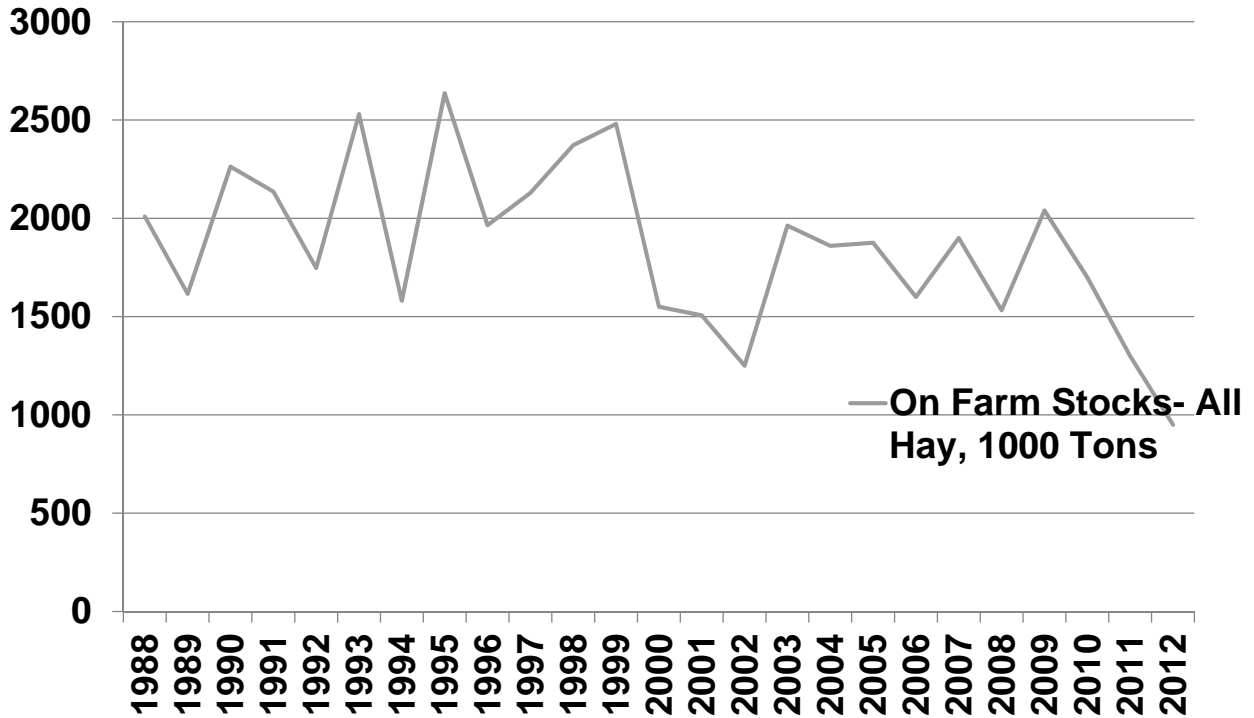


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Alfalfa Hay Market Situation and Fertility



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Brian Lee

Westi Ag Days

February 5, 2014

How will I make my decision?

- Soil Sample
- Stand Quality/Age
- Yearly Situation
- Yield expectations

Major Nutrient Removal by Alfalfa			
	N	P₂O₅	K₂O
lb. /ton	56	12-15	55-70
lb. /10 ton	560	120-150	550-700

Phosphorus Applications

- What will Phosphorus cost me per acre using 11-52-0?

2013 National Average		2014 Worland Wyoming	
Max #P Per Acre (165#)	\$ 115.00	Max #P Per Acre (165#)	\$ 102.15
100# Per Acre	\$ 71.81	100# Per Acre	\$ 64.02
50# Per Acre	\$ 38.59	50# Per Acre	\$ 34.70

- National average price (\$691), Wyoming (\$610)

Phosphorus Applications

- How large of a yield return will I need to see to make a phosphorus application worth it with \$180/ton alfalfa?

2013 National Average Price		2014 Worland Wyoming Average Price	
Max #P Per Acre (165#)	0.64 ton/ac.	Max #P Per Acre (165#)	0.57 ton/ac.
100# Per Acre	0.40 ton/ac.	100# Per Acre	0.36 ton/ac.
50# Per Acre	0.21 ton/ac.	50# Per Acre	0.19 ton/ac.



Phosphorus Applications

- Comparing 2013 Break-evens with ('06-'10) average fertilizer prices and alfalfa priced at \$130/ton. Using 11-52-0

5 Year National Average Prices

Max #P Per Acre (165#)	0.74
100# Per Acre	0.47
50# Per Acre	0.25



Potassium Applications

- What will Potassium cost me per acre using 0-0-60?

2013 National Average		2014 Worland Wyoming	
Max #K Per Acre (300#)	\$ 154.12	Max #K Per Acre (300#)	\$ 146.62
200# Per Acre	\$ 104.54	200# Per Acre	\$ 99.54
100# Per Acre	\$ 54.95	100# Per Acre	\$ 52.45
50# Per Acre	\$ 30.16	50# Per Acre	\$ 28.91

- 2013 National average price (\$595), 2014 Wyoming (\$565)

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Potassium applications

- How large of a yield return will I need to see to make a potassium application worth it at \$180/ton alfalfa?

2013 National Average Price		2014 Worland Wyoming	
Max #P Per Acre (300#)	0.73 ton/ac.	Max #P Per Acre (300#)	0.81 ton/ac.
200# Per Acre	0.50 ton/ac.	200# Per Acre	0.55 ton/ac.
100# Per Acre	0.26 ton/ac.	100# Per Acre	0.29 ton/ac.
50# Per Acre	0.14 ton/ac.	50# Per Acre	0.16 ton/ac.

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Potassium Applications

- Comparing 2013 Break-evens with ('06-'10) average fertilizer prices and alfalfa priced at \$130/ton. Using 0-0-60

5 Year National Average Prices	
Max #P Per Acre (300#)	1.00
200# Per Acre	0.68
100# Per Acre	0.36
50# Per Acre	0.20

Phosphorus Applications

- What will Phosphorus cost me per acre using 11-52-0?

2013 National Average		2013 SE Wyoming	
Max #P Per Acre (165#)	\$ 115.00	Max #P Per Acre (165#)	\$ 113.25
100# Per Acre	\$ 71.81	100# Per Acre	\$ 70.75
50# Per Acre	\$ 38.59	50# Per Acre	\$ 38.06

- National average price (\$691), Wyoming (\$680)

How will I make my decision?

- Soil Sample
- Stand Quality/Age
- Yearly Situation
- Yield expectations

Major Nutrient Removal by Alfalfa			
	N	P₂O₅	K₂O
lb. /ton	56	12-15	55-70
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Questions?

