Feedlot expansion and integration with rapidly changing agriculture in central Brazil

Dan Loy and Erika Lundy IOWA STATE UNIVERSITY Extension and Outreach Iowa Beef Center

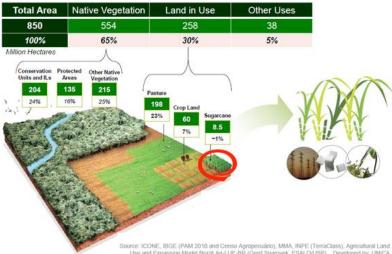


What we can learn from a rapidly growing, immature beef industry...

And what they can learn from us.

- · Brazil and beef production
- · Brazil and grain production
- · Livestock and crop integration
- Feedlot production marketing

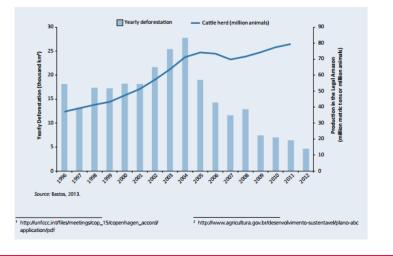




rce: ICONE, IBGE (PAM 2010 and Censo Agropecuário), MMA, IMPE (TerraClass), Agricultural Land Use and Expansion Model Brazi Ag-LUE-BR (Gerd Sparvek, ESALOUSP). Developed by: UNICA and Cosan. Nole: ILs = Indigenous Lands. Other Native Vegetation include Legal Reserve (RLs)



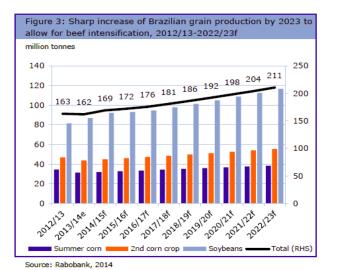
Cattle herd and deforestation in Brazil





1,000 miles in 3 days





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Source: Rabobank, 2014









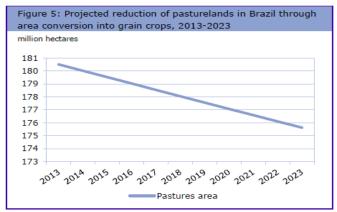








Intensification of cow herds and integration with crop rotations



Source: Rabobank, 2014



Crop rotations Mafra e Propecus

- Three cropping systems:
 - 1) Soybeans-annual tropical grass-millet
 - 2) Soybeans-corn-annual tropical grass
 - 3) Soybeans-grass (panicum) for 3 years then back to 1 or 2.



Crop rotations Mafra e Propecus

- 4,000 cows fixed time AI
- Reproductive data
 - 60% success timed AI
 - 92% weaning rate, 5% jaguars









Bortoluzi Farm (Matupa)

- 25,000 hd/year
- Also planning to double next year
- 9 months of rainy season
- · Very interested in managing mud







Fazena Mirante Feedlot

- Goiania (Goias State)
- Poorer soils, less farming
- Sorghum, corn silage, cottonseed, tomato waste
- Custom feedlot
- Test lot for GA feedlot software
- "Most photogenic" feedlot in Brazil

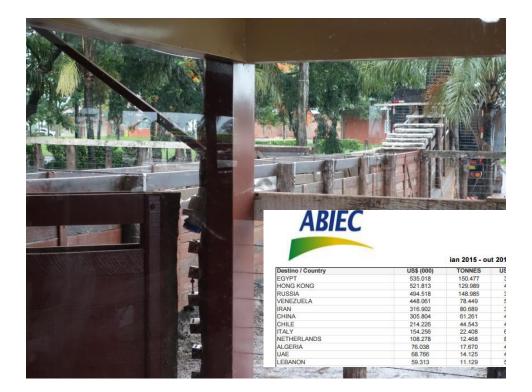
















Can the US and Brazil provide beef for a hungry world?

- Competition
- Communication
- Cooperation





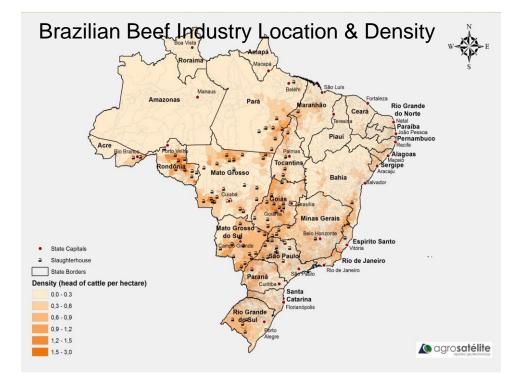


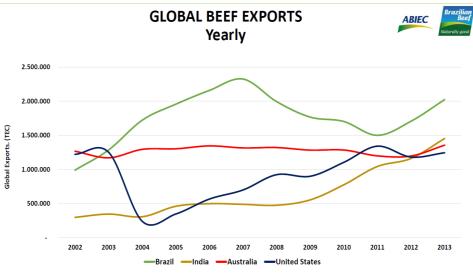
Global Ranking of Brazilian Production and Exports

Main Products	Global Ranking		World Comercial
	Production	Exports	share
Orange Juice	1º	1º	77%
Sugar	1º	1º	45%
Coffee	1º	1º	28%
Beef	2º	1º	22%
Chicken	2º	1º	35%
Soybeans	2º	2º	39%
Corn	3º	2º	17%
Soybean oil	49	2º	12%
Soybean meal	49	2º	22%
Pork	49	49	10%
Cotton	5⁰	3⁰	10%

Source: USDA ; Estimation of 2014 and 2015

IOWA FARM BUREAU



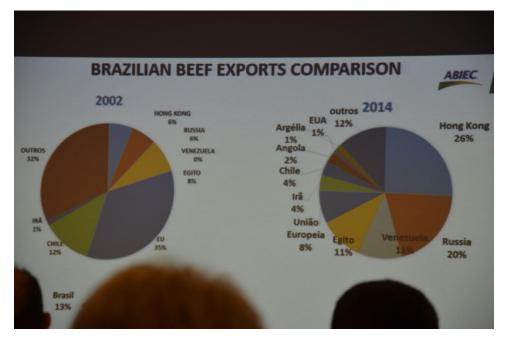


- 5 million cattle farms; 208 million head inventory;
- · 43 million head annual slaughter; 521 lb avg carcass
- 10.2 million tons beef; 80% domestic consumption; 20% export



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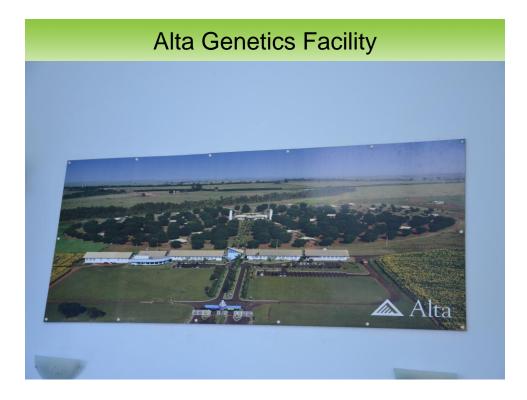
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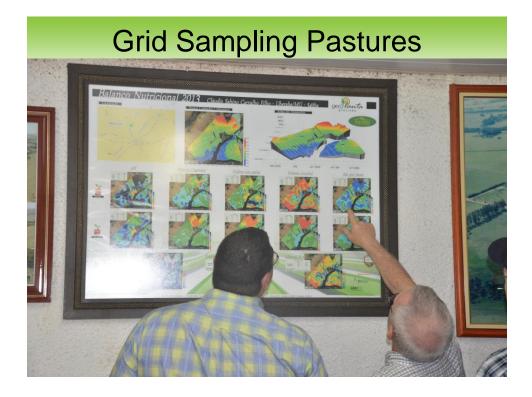
Brazilian Beef Industry Facts

- Angus is #1 breed for semen sales in Brazil.
- Live carcass weight of 350 kg.
- 70-80% of beef produced in Brazil is consumed in Brazil.
- Panacum is the main grass; grow to 35 inches and graze down.
- Average herd size is 600 head; a good life is 1,500 head.











Integrated Forestry & Beef

- Eucalyptus trees are harvested at 12 years of age.
- The trees reduce grass production by 12% but the profitability of wood production easily offsets the decreased grass production.
- The middle row in the row of three produces straight trees and thus wood that is good enough quality for furniture and the other trees are sold for paper products.

IOWA FARM BUREA

• Rows of 1 tree are not profitable enough to offset the loss of grass production.











Soybeans and Sugarcane in the background of the feedlot

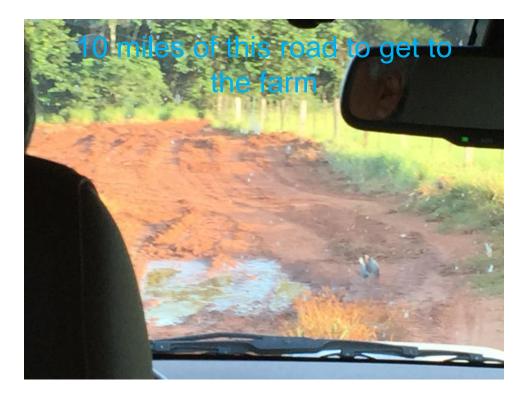
















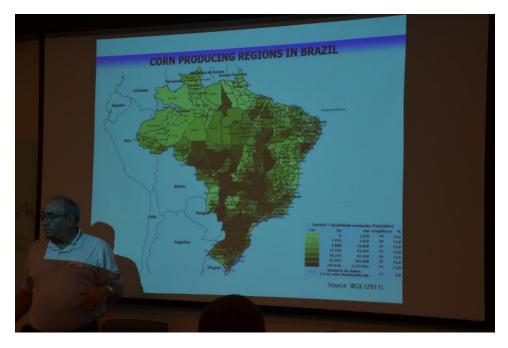




















Conclusions

- Brazil Great Potential, but.....
 - Infrastructure issues
 - Cultural issues
 - Political issues
 - Industry structure



Questions?



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