

Latest developments of beef production in South America

Prof. Dr. SERGIO DE ZEN
M.s.THIAGO BERNARDINO DE CARVALHO

CEPEA/ESALQ/USP - Brazil



CONTENT

- OVERVIEW OF SOUTH AMERICAN BEEF SECTOR
- 2. BRAZILIAN INDUSTRY
- 3. BRAZILIAN COSTS AND FARMS
- DEMAND AND SUPPLY IN THE FUTURE South American Countries
- 5. CHALLENGES AND OPPORTUNITIES



1. OVERVIEW OF SOUTH AMERICAN BEEF SECTOR

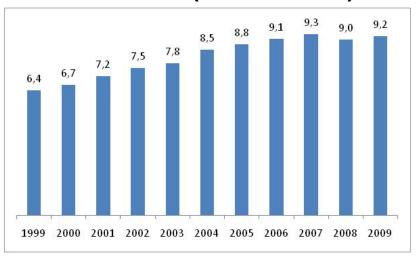


1.1 OVERVIEW OF BRAZILIAN BEEF SECTOR

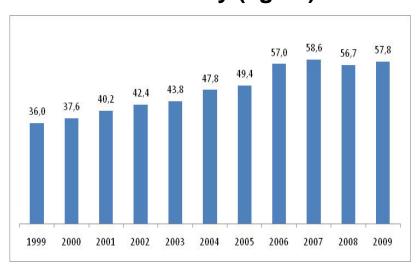


Brazilian Overview

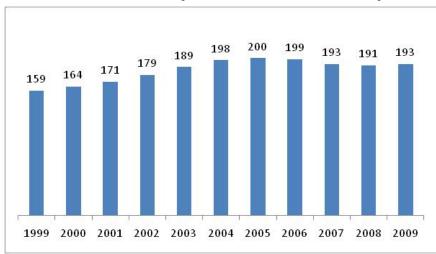
Production (millions tons)



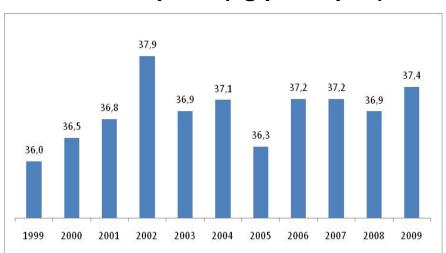
Productivity (kg/ha)



Cattle (millions of herds)



Consumption (kg per capita)



Source: CNPC, CNA and IBGE

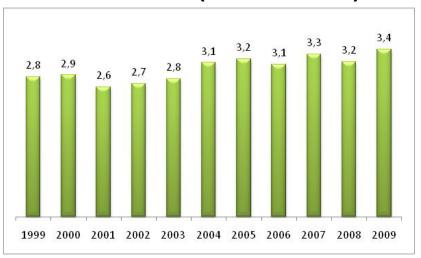


1.2 OVERVIEW OF ARGENTINA BEEF SECTOR

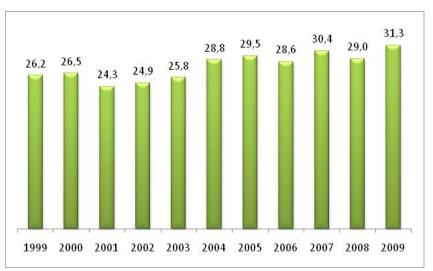


Argentina Overview

Production (millions tons)

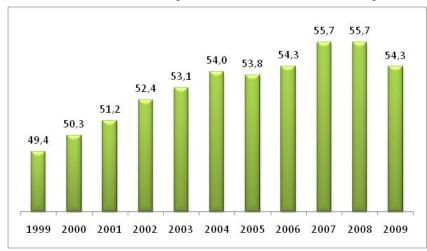


Productivity (kg/ha)

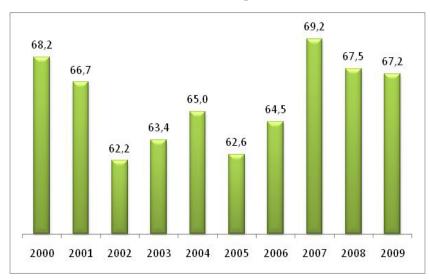


Source: USDA, INEC

Cattle (millions of herds)

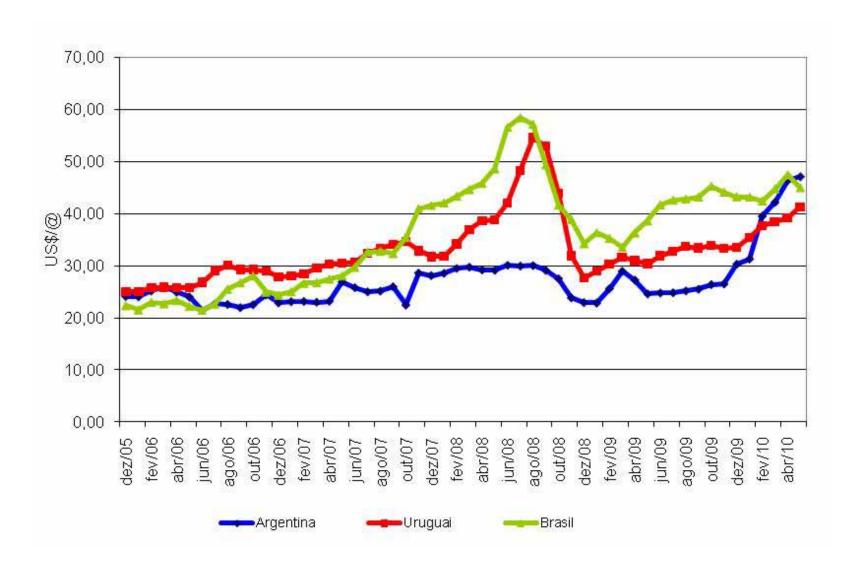


Consumption (kg per capita)





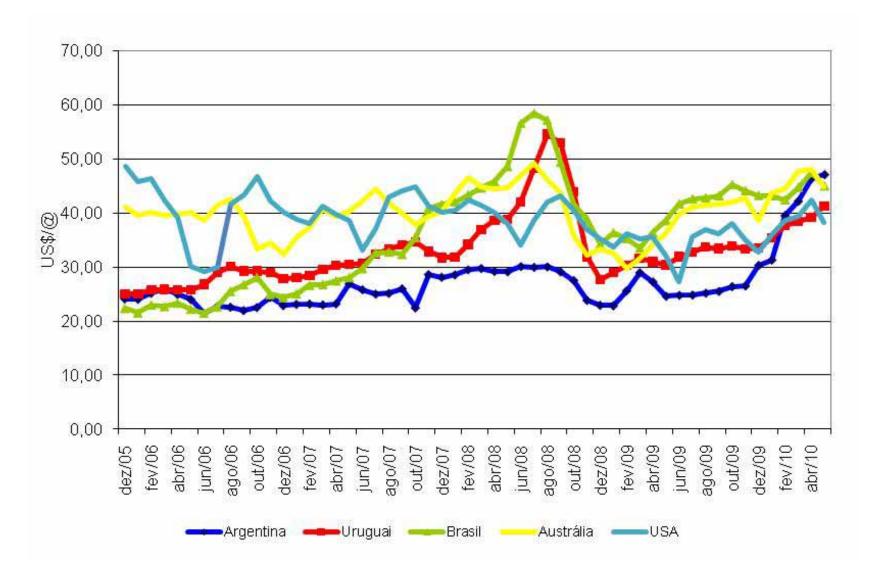
Cattle Prices in US\$/15kg: SOUTH AMERICA



Source: CEPEA, SAGPYA and INAC



Cattle Prices in US\$/15kg: WORLD



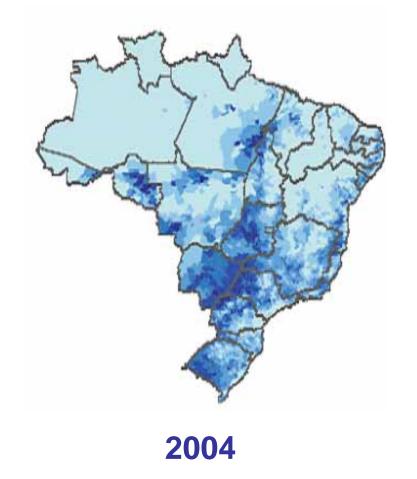


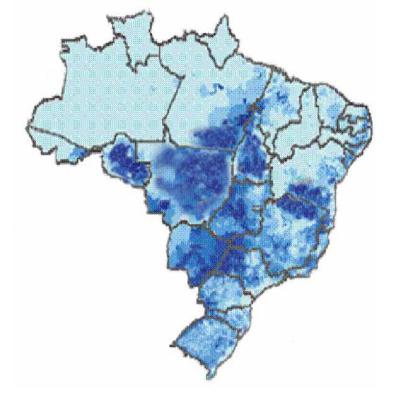
2. THE BRAZILIAN INDUSTRY



Evolution of Brazilian Cattle Herd by Region in next years







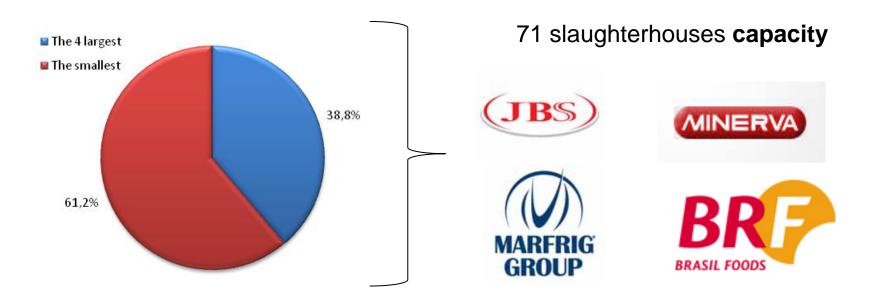
2010





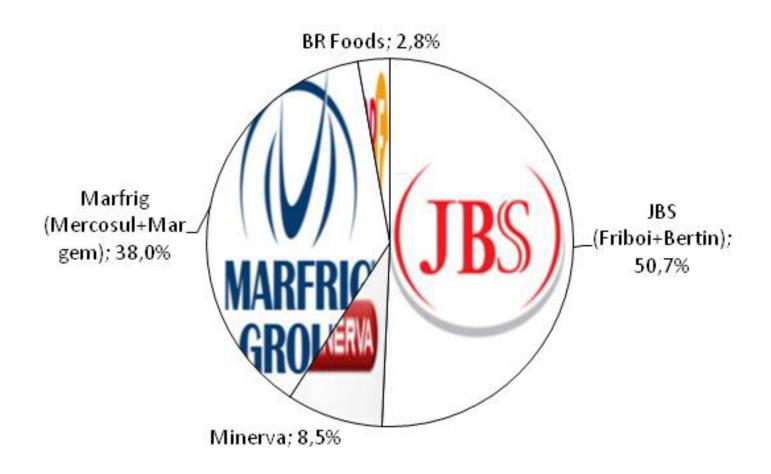
Brazilian Slaughterhouses

 There are 183 slaughterhouses with SIF (federal inspection)





Participation of the 4 largest groups in 71 slaughterhouses



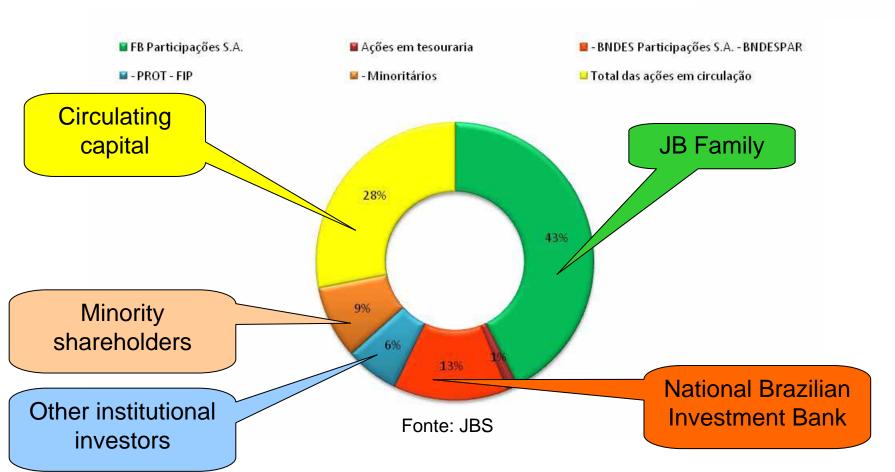


Brazilian Industry

- The total industry slaughter
 - 80,773 cattle/day
 - 1,777,006 cattle/month
- Their capacity are 2,887,830/month (slaughtered only 60% of their capacity)
- The four largest groups slaughtered 33% of total in Brazil



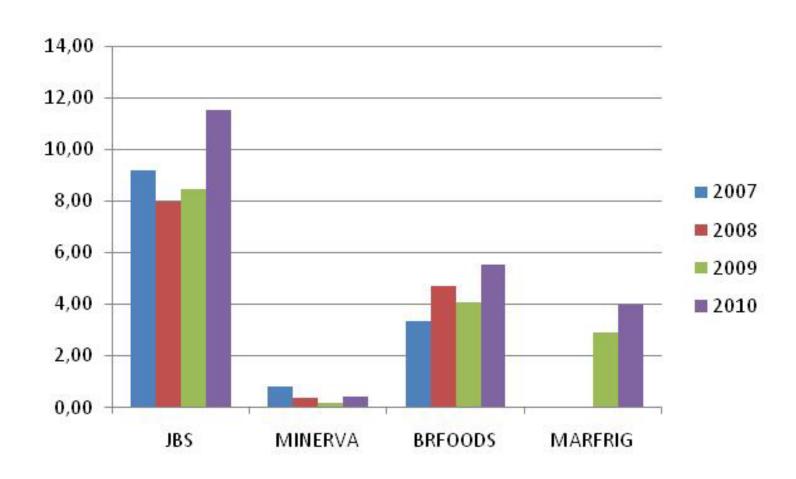




TOTAL of SHARE: 2.367.471.476



Total Value of Stocks – Billions US\$



Source: JBS, MINERVA, MARFRIG, BRFOODS



Industry in Argentina, Uruguay and Paraguay

Argentina:

- Brazilian's companies JBS and Marfrig:
 - Control around 60% of export plants
 - They have problem to export government restrictions

Uruguay:

- Marfrig:
 - Control around 35% of export plants

Paraguay:

 Independencia (Brazilian industry) – bought Guarany, but when they have financial problem it return to older owner, but is rebuilding – adapted to European market.



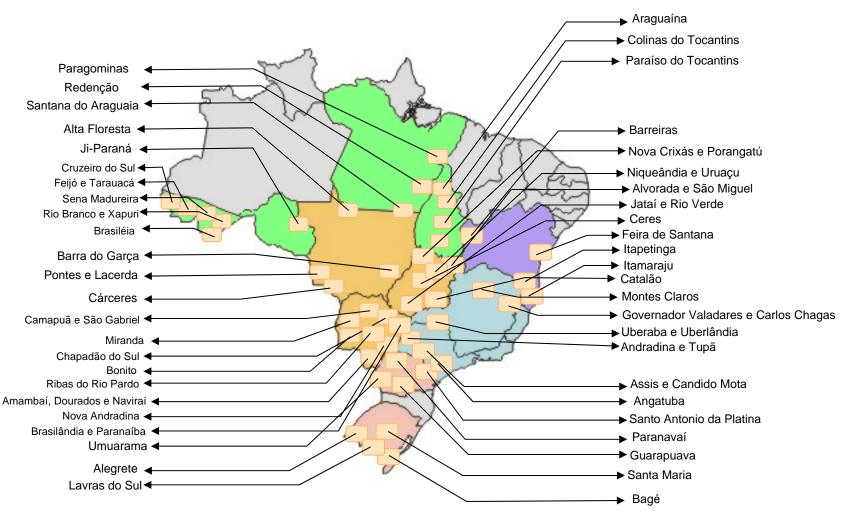
3. BRAZILIAN COSTS AND FARMS



Brazilian Typical Farms Network





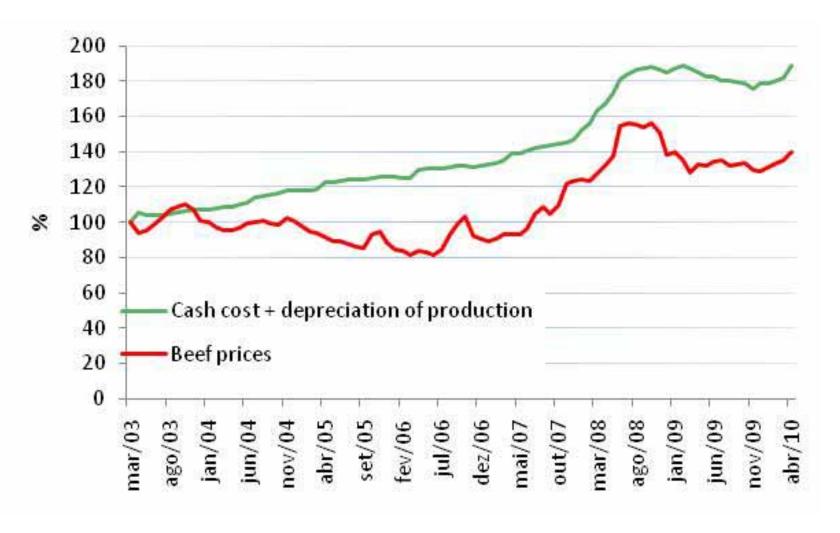


Fonte: CEPEA / CNA 19



Evolution of cost of production and beef price 2003-2010

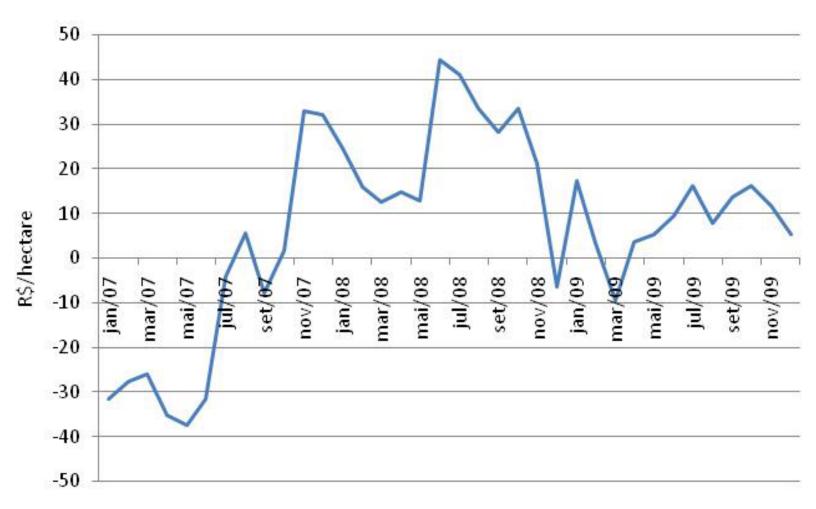
(Index March 2003 = 100)



Source: CEPEA/CNA



Average profitability of Brazilian farms (January/2007 to December/09)



Source: CEPEA/CNA



4. DEMAND AND SUPPLY IN THE FUTURE



MODEL

$$Q_t = Q_o (1 + e_y + r_y) (1 + p)$$

Qo = amount consumed in the initial year

 e_v = income elasticity of demand for the beef

r_v = growth rate of per capita income

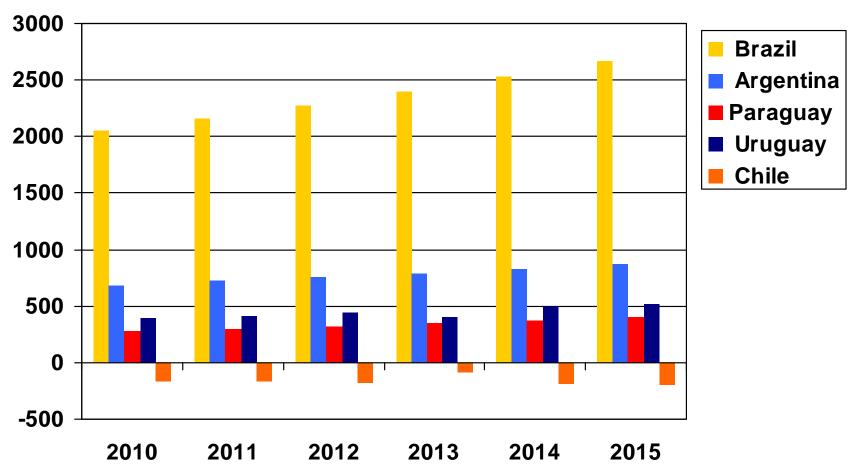
p = growth rate of population

Source: Barros (1987)





'000 tons carcass weight

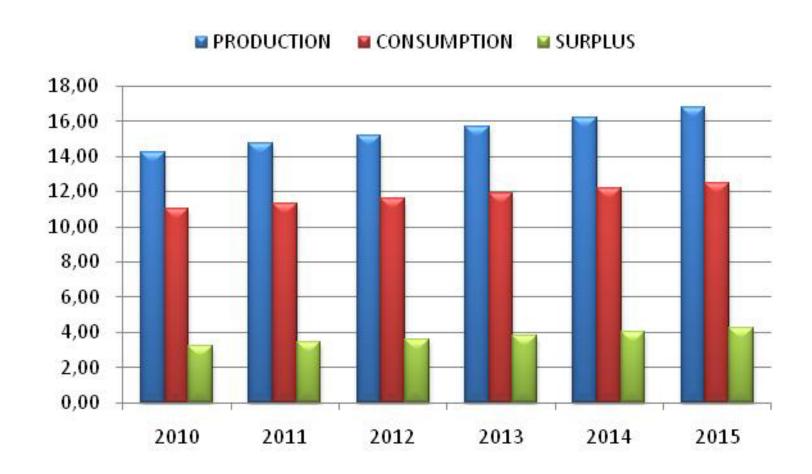


Source: CEPEA and FMI

Agri Benchmark June 2010

Expectation for net surplus in South America

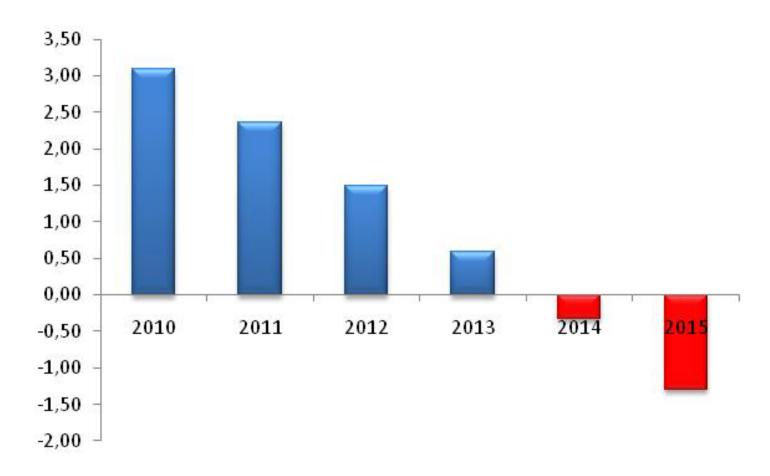
(millions of tons)





Expectation of surplus of beef – WORLD

millions of tons



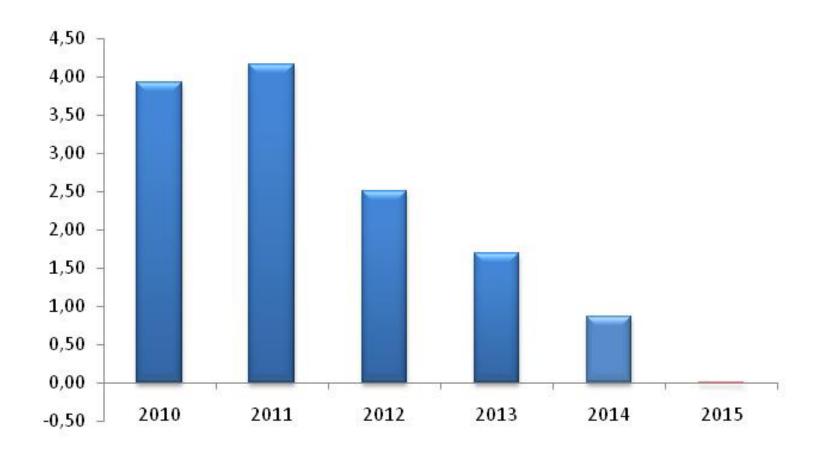


GROWTH SCENARIO OF SOUTH AMERICA PRODUCTION

	ACTUAL SCENARIO	GROWTH SCENARIO
Argentina	2,15%	7,00%
Brazil	3,50%	10,30%
Chile	1,47%	6,00%
Paraguay	6,68%	10,00%
Uruguay	4,49%	9,00%









Paraguay – young cows

Paraguay – first raining







Brazil Pasture – 3 months

Natural reserve - water and land







Angus – 16 months – 475 kg on pasture

Nelore – 22 months – 456 kg on pasture







Acre – Brazil 20 % pasture; 80% Amazonian Forest

Acre – Brazil Amazonian certificate Wood – more than 100 years.



The income: - Certificate wood – R\$ 110,00/ha/ year - Non certificate wood – • US\$ 5000,00/ha/heternity (R\$9000,00)



Challenges and Opportunities

- Eradication of FMD in the whole country
- Consolidation of a traceability system adequate to the countries reality and attend the real sanitary demand
- Opening of new international markets (USA, Japan, Mexico, Indonesian)
- Environmental risks real issues and trade;
- Cost of production supplement and labor;
- Supply to domestic market and international market;
- Counties are highly competitive in the farm and in the industry, but how long it is sustainable.



http://cepea.esalq.usp.br cepea@esalq.usp.br 55 019 3429 8802