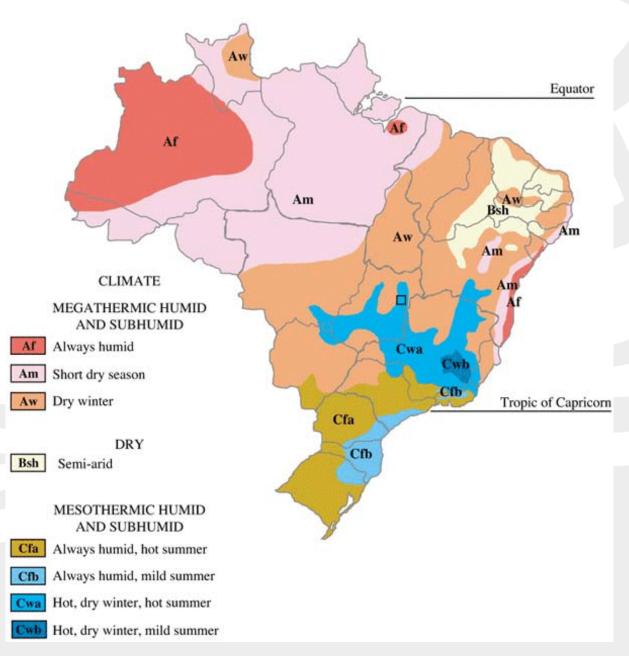
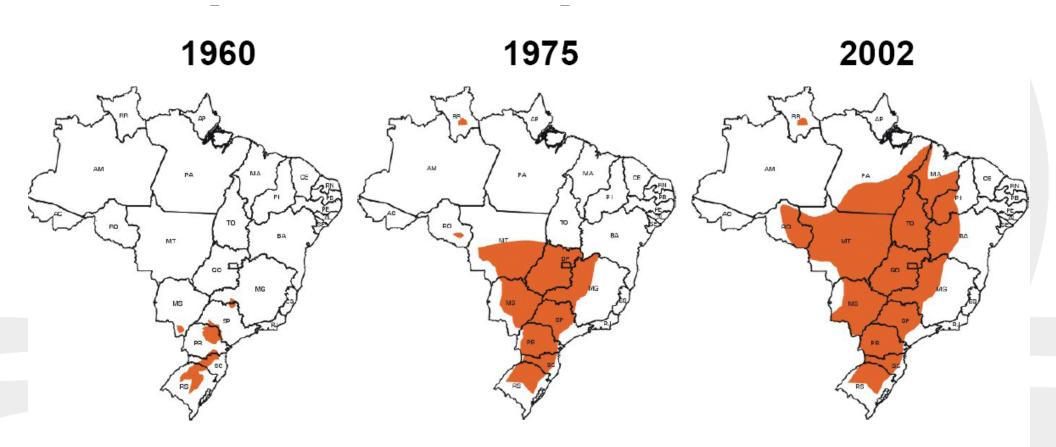
Brazil Climate



Source: http://www.guianet.com.br/brasil/mapaclima.htm



Brazil Soybean Expansion

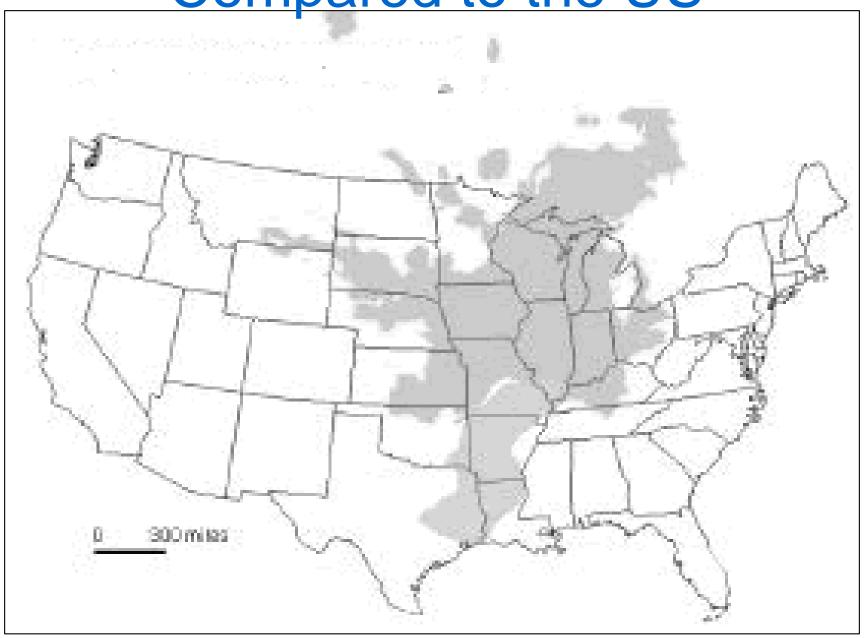


396 ADAPTED CULTIVARS, BIOLOGICAL N₂ FIXATION MANAGEMENT, PESTS and DISEASE CONTROLS

(Souza et al., 2003)



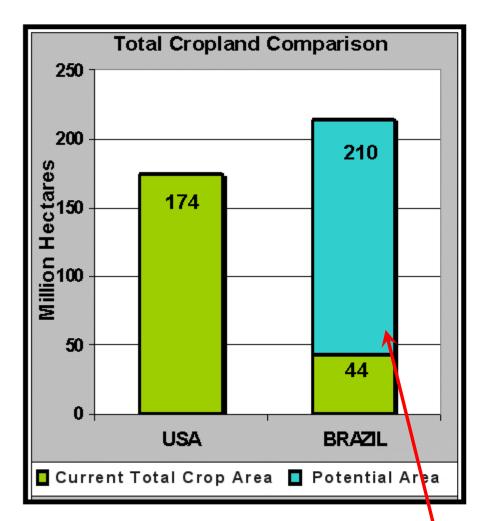
Brazilian Soybean Area Compared to the US

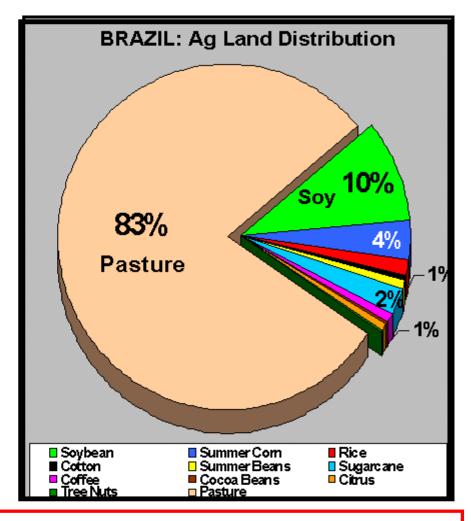


Source: Leibold, K., Brazil's soybean production, AgDM newsletter article, September 2001



Scope of Potential Agricultural Expansion



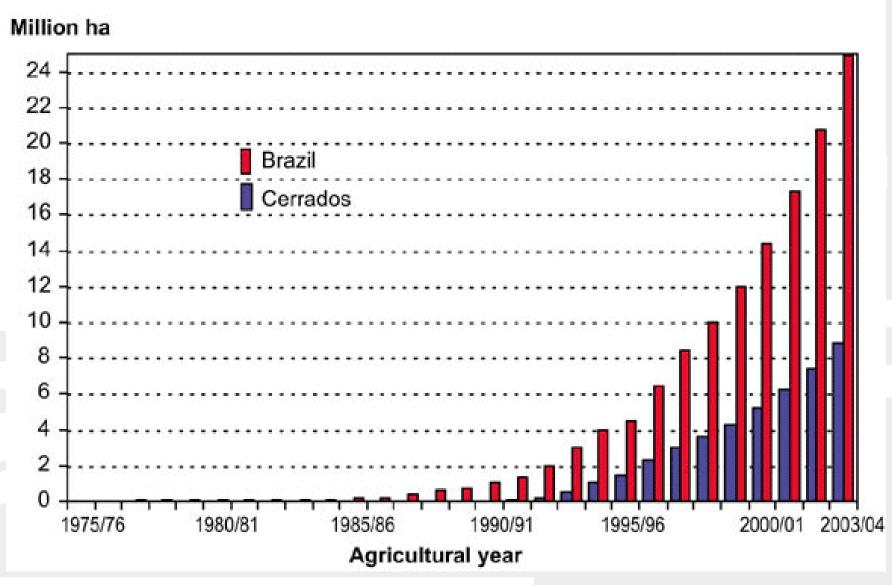


18 million hectares of pasture in *cerrados can* be converted to cropland, according to the Embrapa Cerrados research institute located at Planaltina, District Federal



Cropland Expansion in Brazil

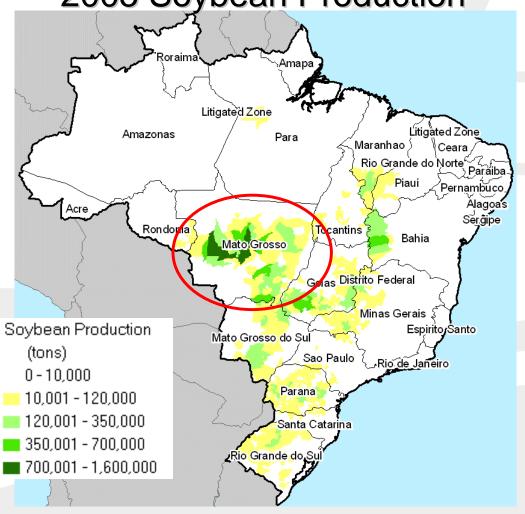
Development of no-till cropping in Brazil and in the Cerrado region

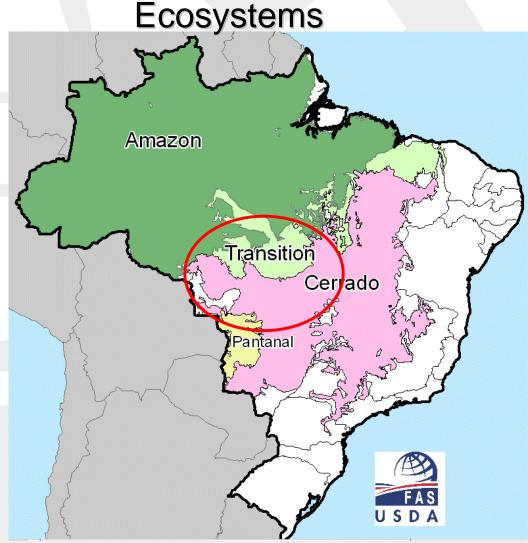


Source: Federação Brasileira de Plantio Direto na Palha (FEBRAPDP), 2003.

Soy Area Expansion Occurred in Cerrado Soils and Outer Fringes of the Amazon

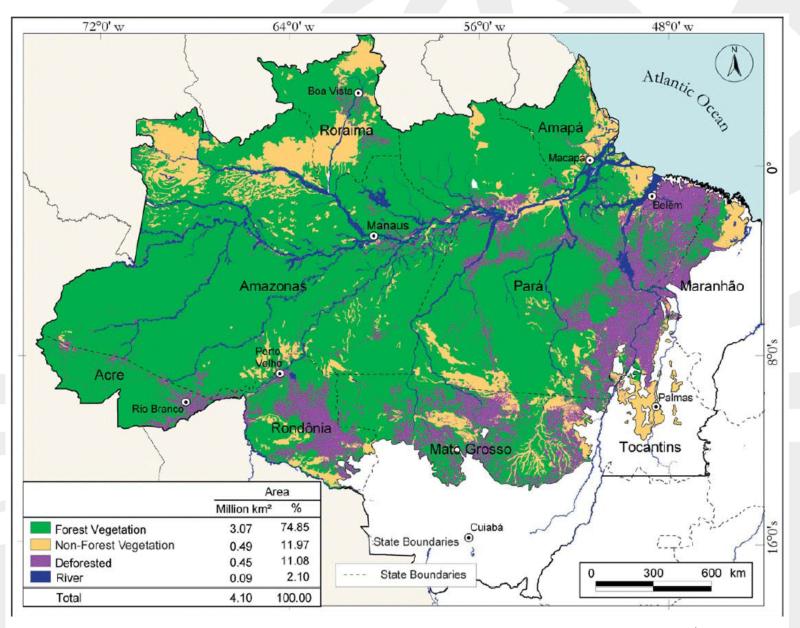
2005 Soybean Production







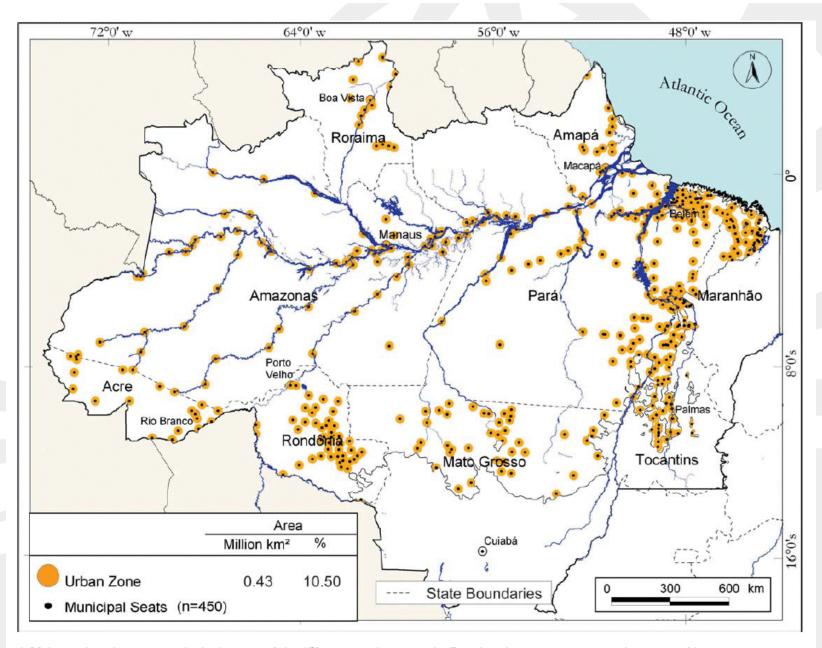
Amazon Deforestation



This map was created by overlaying the INPE map of deforestation as of 2001 over the map of vegetation by IBGE (IBGE 1997). Scales of maps: Deforestation (1:250,000). The scale of the vegetation map was 1:2,500,000. The scale of this which aggregates all types of forest is 1:1,000,000.



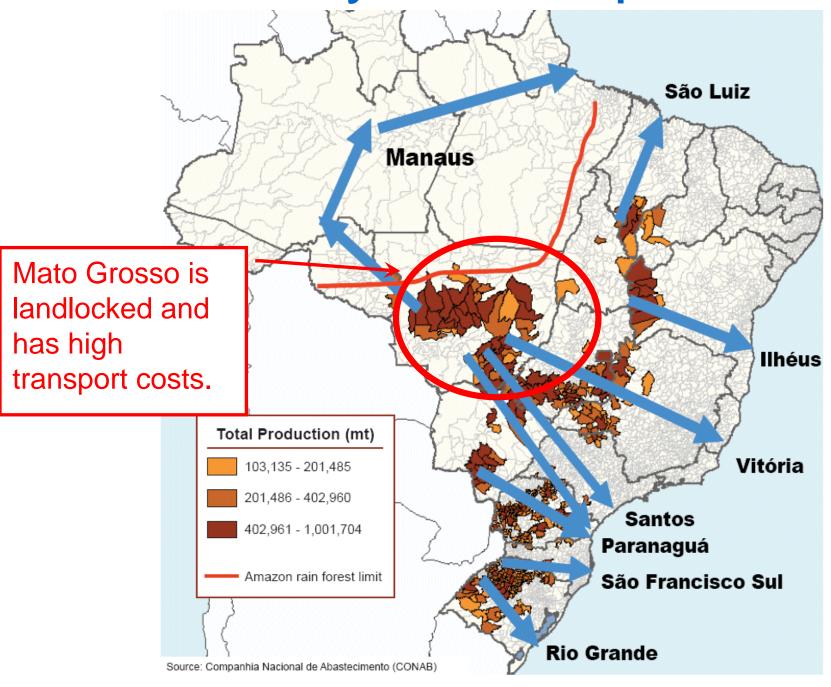
Urban Pressure on Amazon



A 20-km wide radius surrounds the location of the 450 municipal seats in the Brazilian Amazon, to estimate the extent of human pressure from these centers. See Section III for details. Source: IBGE 1997.



Main Soybean Export Routes



Roads & Rails in Poor Conditions

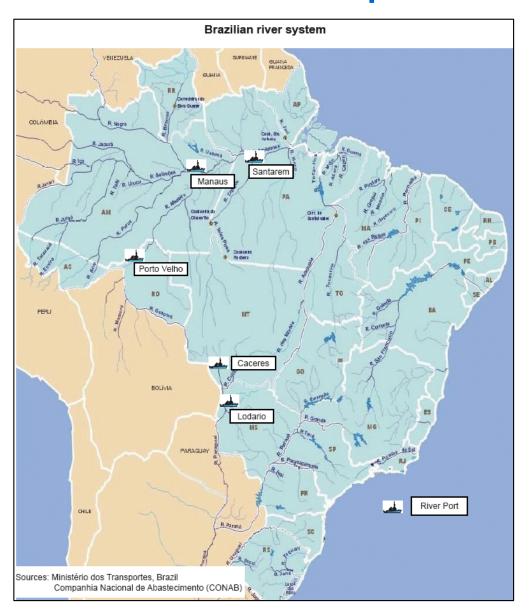


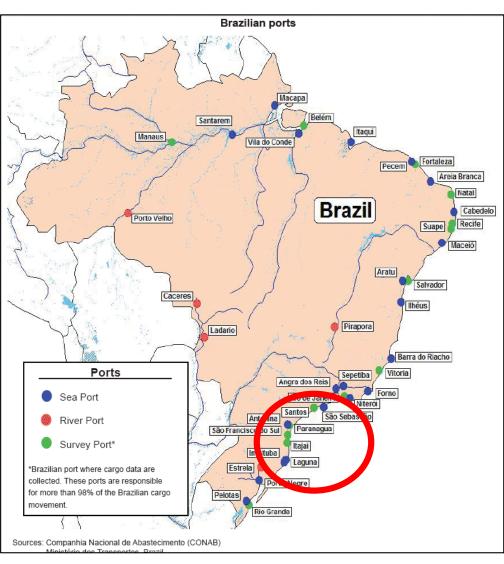


Proposed Railroads

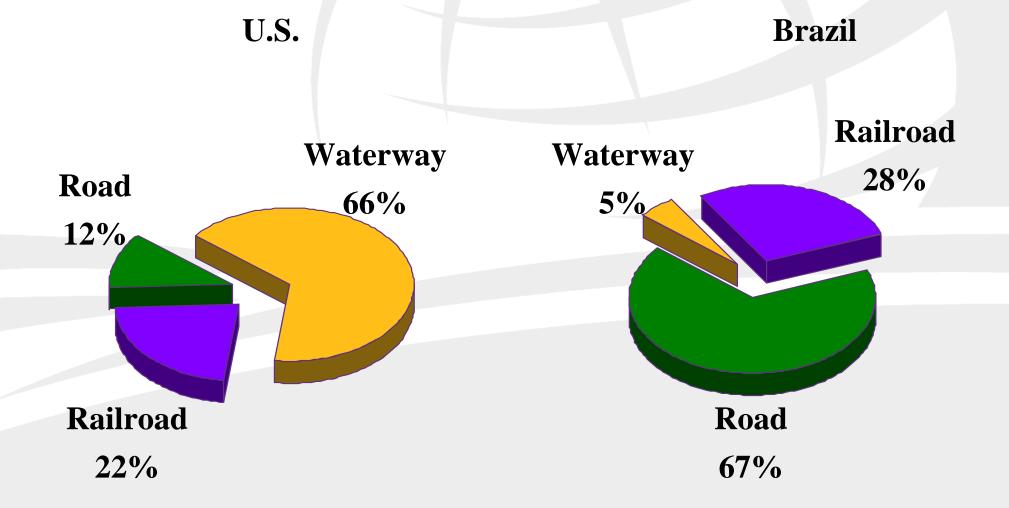


Bottlenecks in Southern Ports and Undeveloped Ports in the North





U.S. and Brazilian Soybean Transportation to Port by Mode





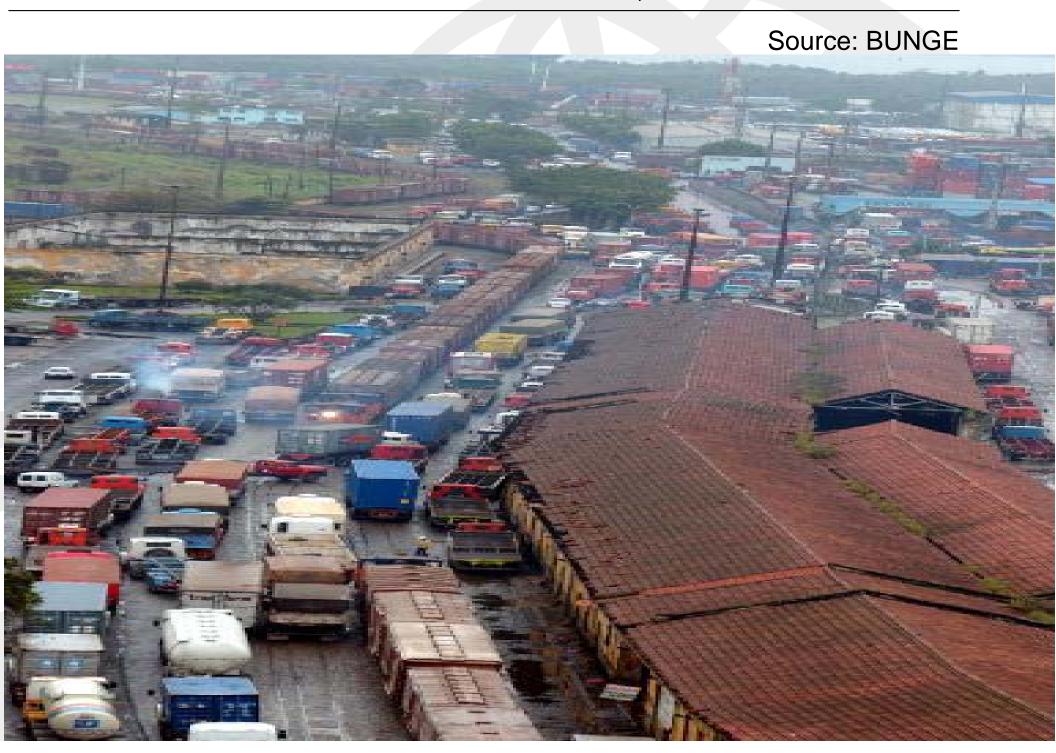
BRAZILIAN ROADS

Source: BUNGE

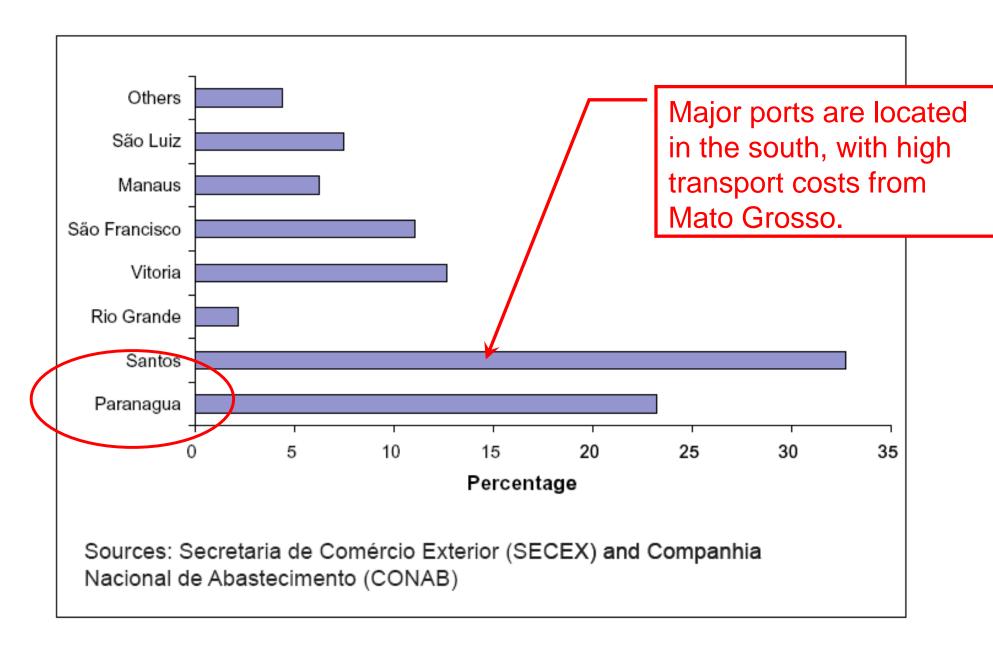
BR - 163 BETWEEN NOVA MUTUM AND LUCAS DO RIO VERDE-MATO GROSSO STATE



ARRIVAL AT PORT OF SANTOS, SÃO PAULO



Soybean Exports (%) by Port

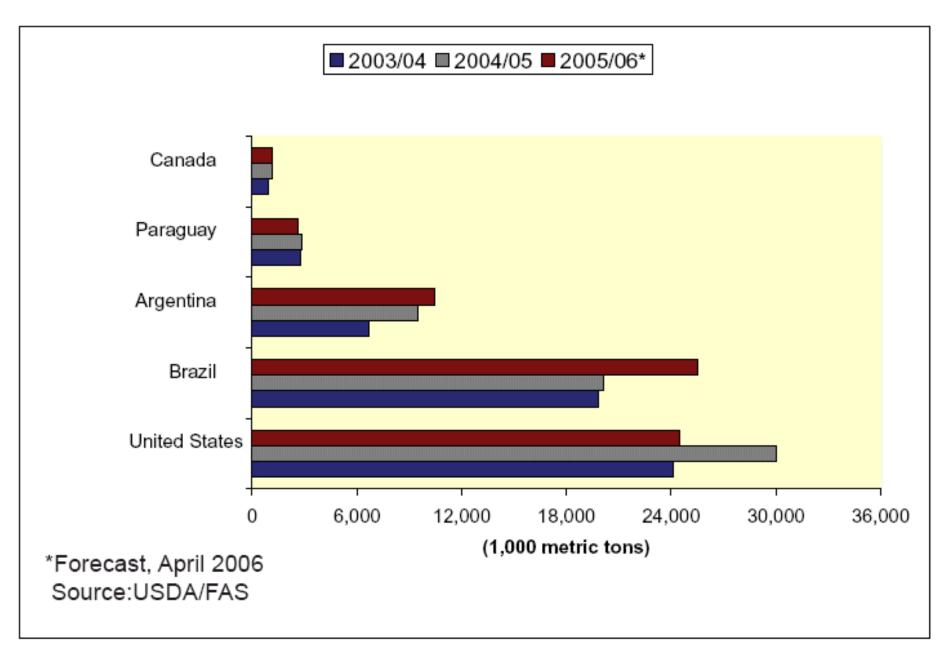


Proposed Transportation Improvements for Roads, Rail & Rivers



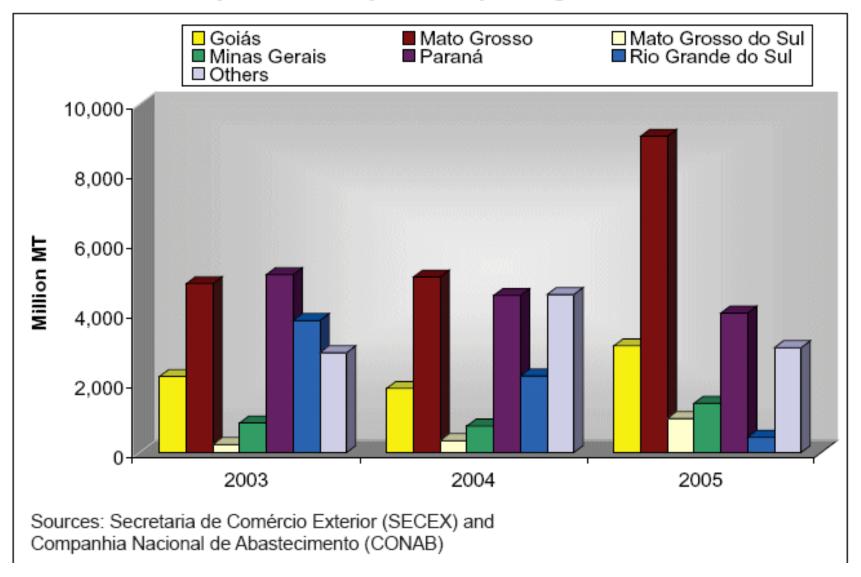
Source: Schnepf, Dohlman, and Bolling, 2001, Agriculture in Brazil and Argentine, ERS, USDA, Agriculture and Trade Report, WRS-01-3

Top 5 Soybean Exporting Countries



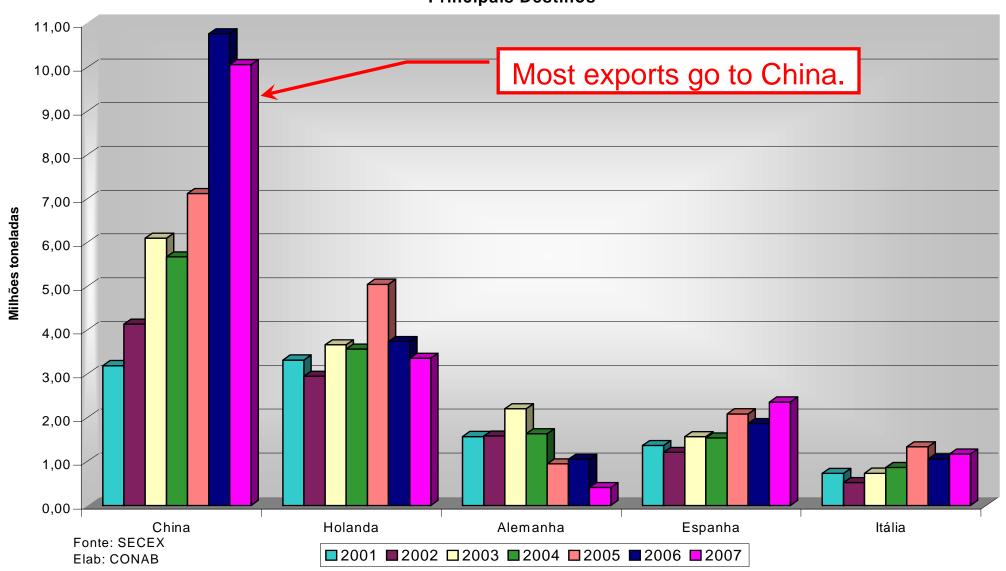
Mato Grosso is Largest Exporting State

Top 6 Brazil soybean exporting states



Top 5 Soybean Export Destinations

BRASIL - Exportação Soja Grão Principais Destinos

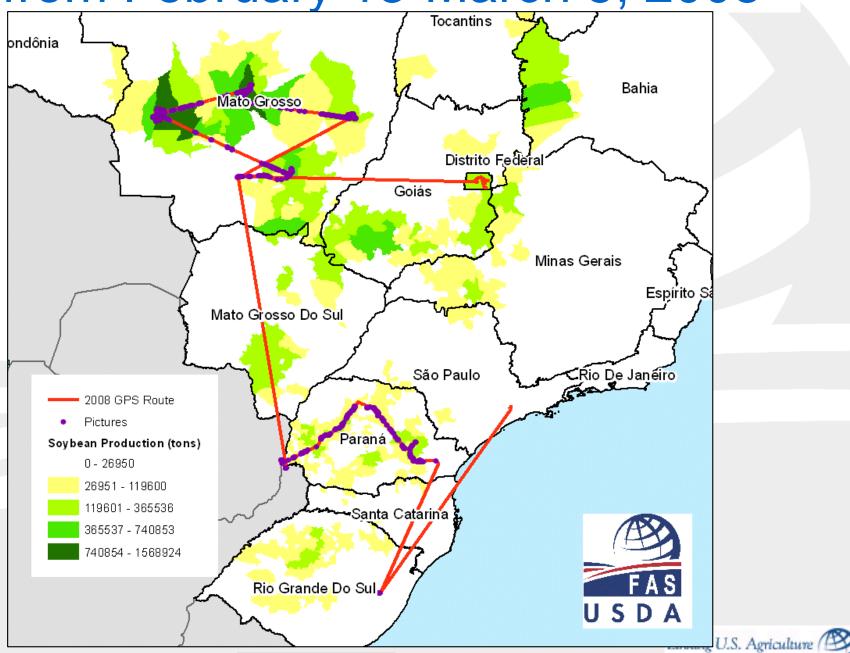


Keys to Future Growth

- Area growth in Cerrado soils
 - Convert abandoned pastures to crops
 - More feedlots being built in Mato Grosso
- Yield growth
 - Development of tropical varieties resistant to pests & fungal diseases
 - Better yielding early-season varieties which allow two crops per year
 - Less mono-cropping and more crop rotation to control Asian rust and nematodes.
 - In-country fertilizer production
- Infrastructure development (roads, rails, and ports) for Mato Groso



GPS Crop Tour Route with POST from February 13-March 5, 2008



USDA/FAS/OGA

Two Crop Seasons (Sept.15th-Jan & Feb-May): Summer Corn (left) & Winter Corn (right)

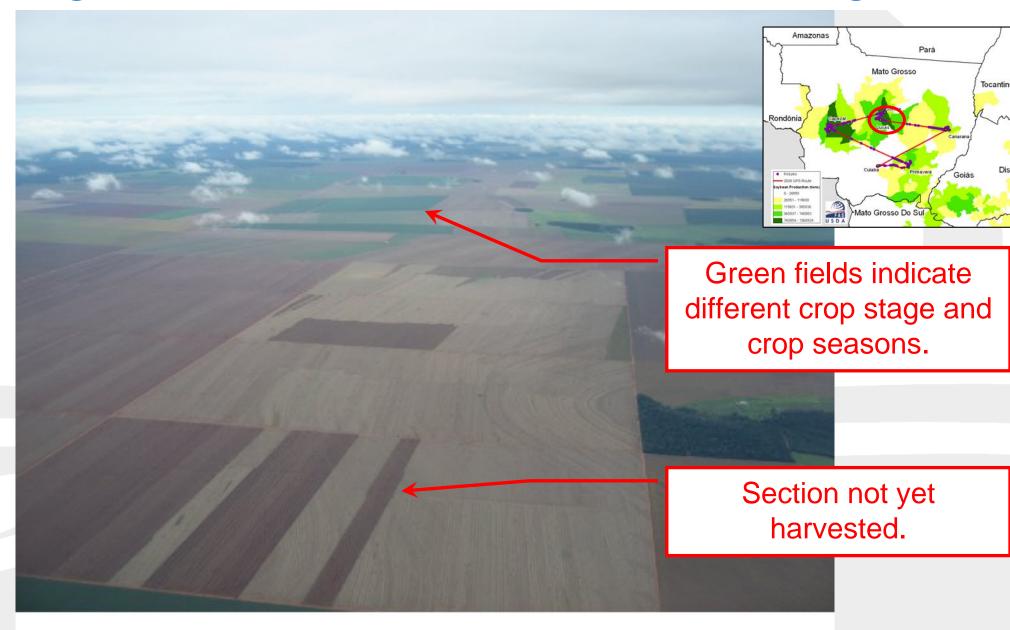


S 13° 32.174' W 058° 55.307'

575 m

02/26/2008 11:19:22 AM

Large Fields & Different Crop Stages



S 13° 35.265' W 058° 35.261'

1813 m

02/26/2008 10:16:47 AM



Large John Deere Harvesters at Primavera do Leste, Mato Grosso



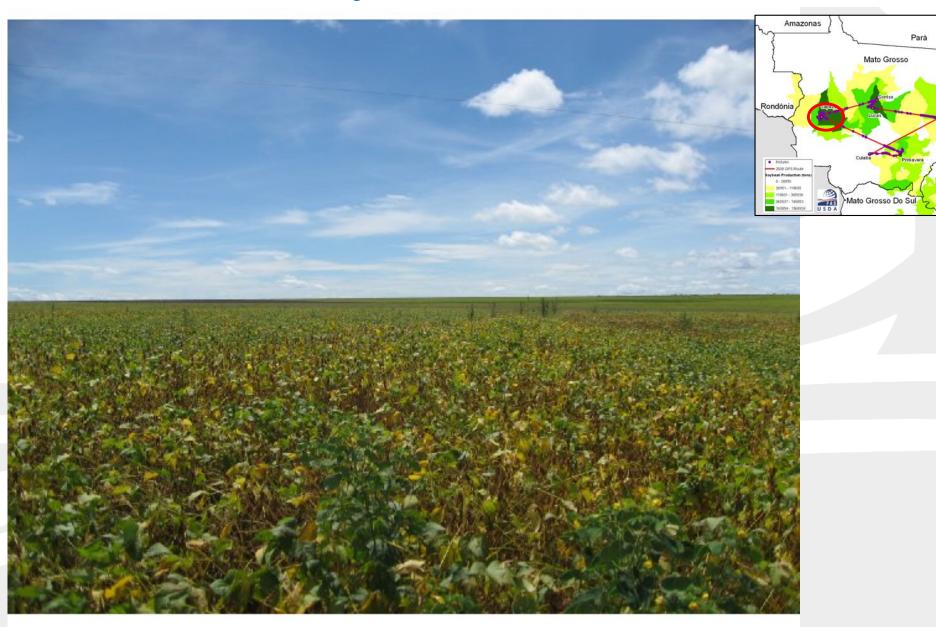
S 15° 24.887' W 054° 14.955'

579 m

02/25/2008 5:22:35 PM



Soybean Rust



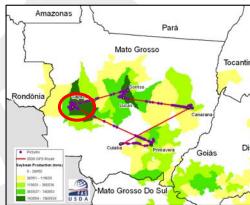
S 13° 19.275' W 058° 52.511'

536 m

02/26/2008 2:53:57 PM

Soybean Rust





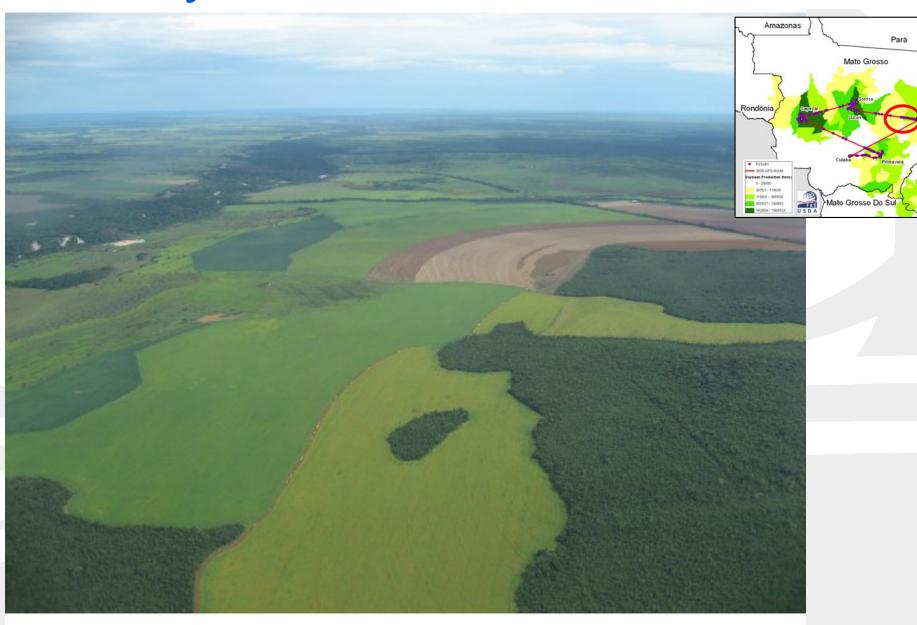
S 13° 19.274' W 058° 52.511'

536 m

02/26/2008 2:53:46 PM



Soybeans next to Forest



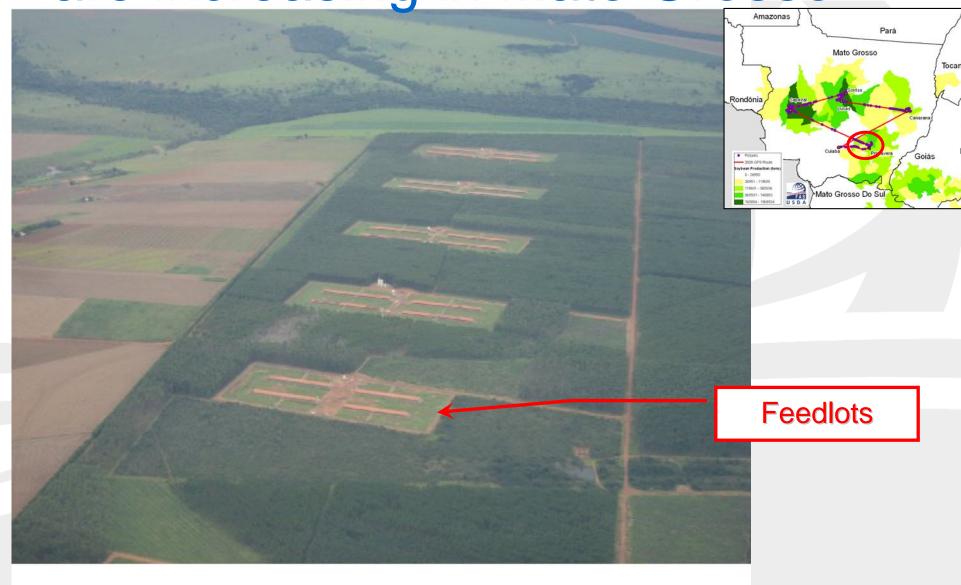
S 13° 33.535' W 052° 23.514'

997 m

02/28/2008 9:45:37 AM

Linking U.S. Agriculture

Cattle, hog, and poultry feedlots are increasing in Mato Grosso



S 15° 33.711' W 055° 12.882'

1705 m

02/25/2008 3:05:11 PM



Poultry factory under construction at Lucas do Rio Verde, Mato Grosso



S 13° 00.369' W 055° 56.039'

690 m

02/28/2008 8:26:17 AM

