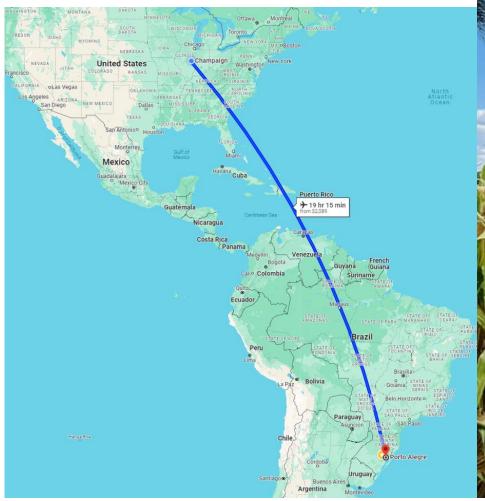
Misconceptions about Brazil's Agriculture



From Rio Grande do Sul to illinois







Expansion into the Amazon represents a big portion of soybean production.

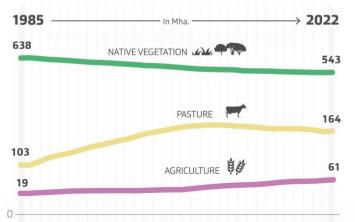


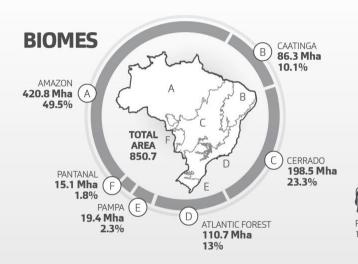
©The Nature Conservancy



Brazil

Land use and land cover annual evolution (1985-2022)





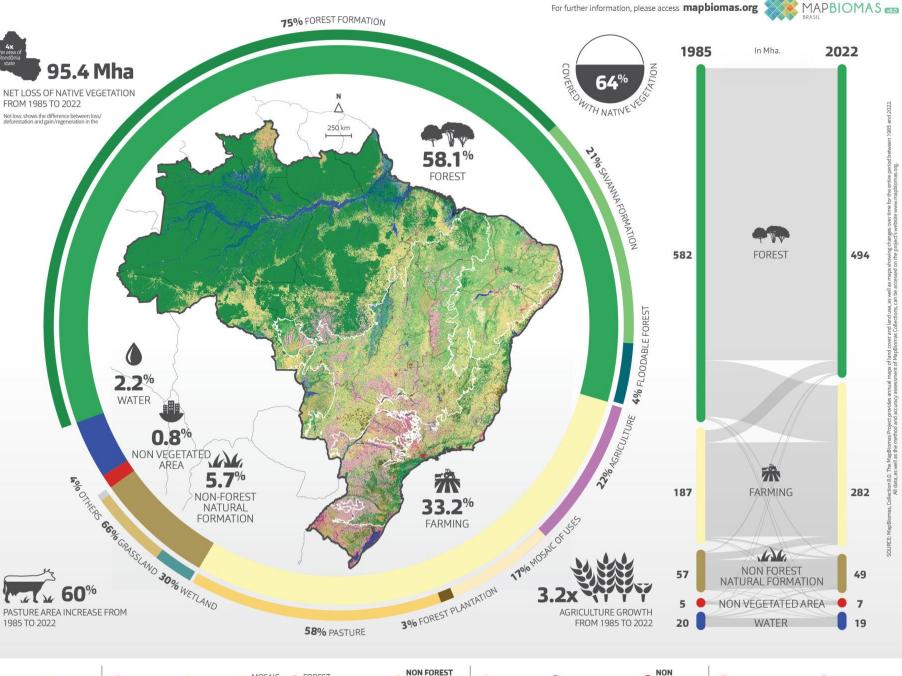
FORMATION

FOREST

MANGROVE FLOODABLE

AGRICULTURE PASTURE

FARMING



NATURAL

FORMATION

GRASSLAND WETLAND

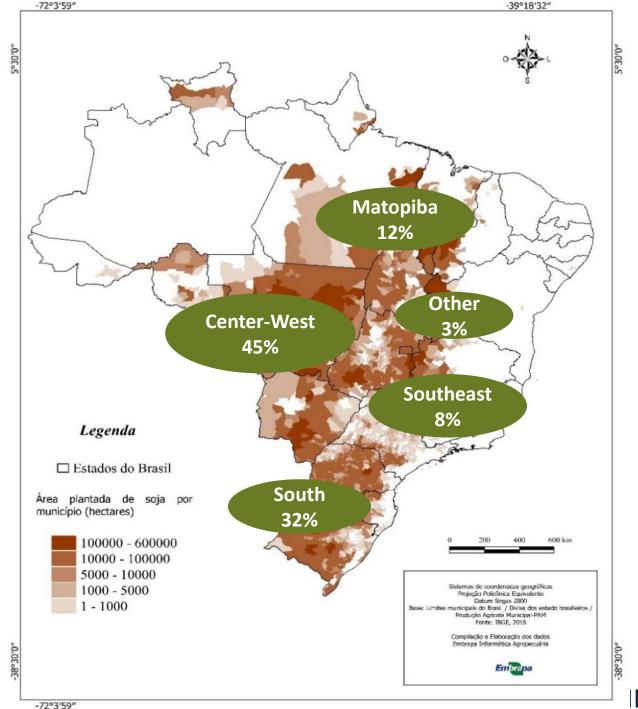
VEGETATED

URBAN AREA

WATER

Soybeans by region

- Three states in the Midwest
 (Mato Grosso, Goiás, and Mato Grosso do Sul) and two
 southern states (Paraná and Rio Grande do Sul) represent 75%
 of soybean production in Brazil.
- The Matopiba, in the North and Northeast, is considered the new agricultural frontier in Brazil, representing 12% of soybean production.





Cerrado accounts for 65% of Brazil's soybeans

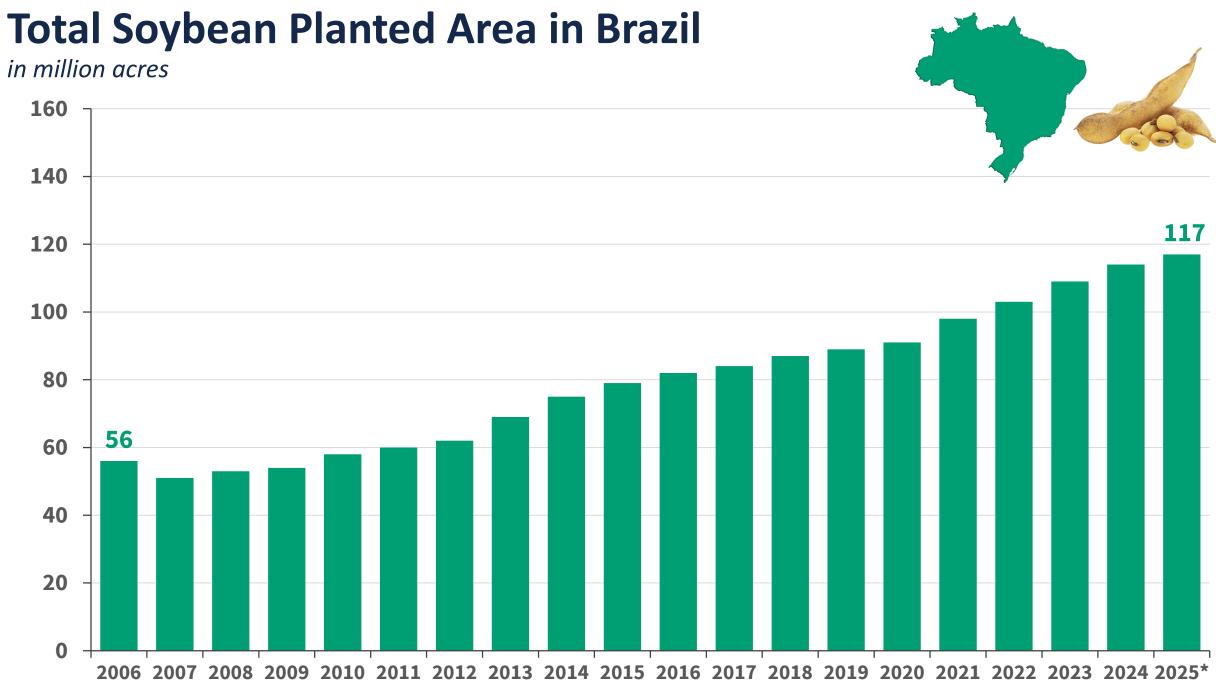


The soybean planted area doubled in the last two decades.

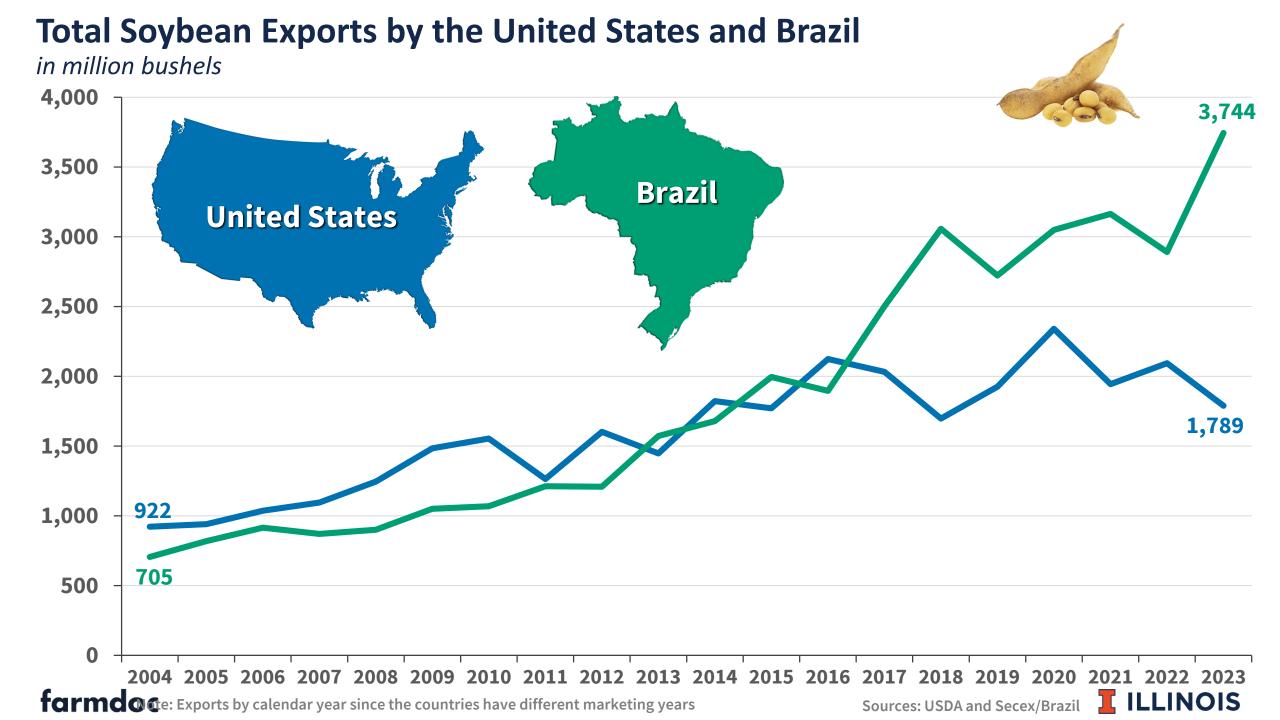


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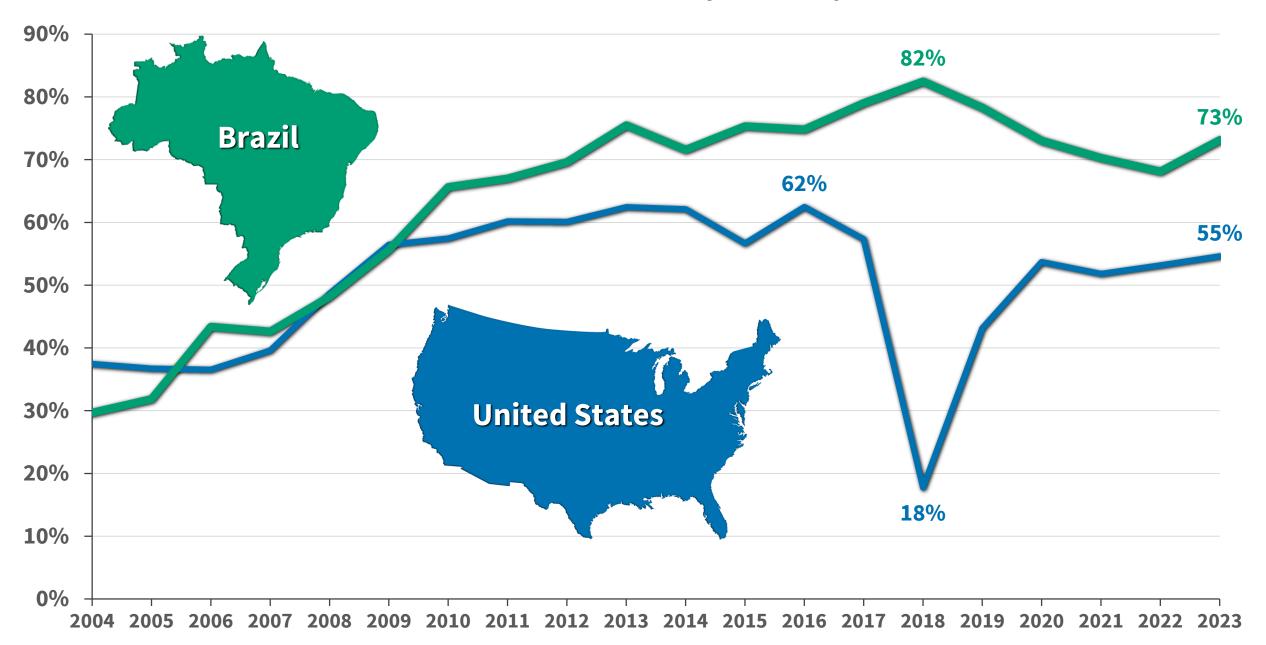




I ILLINOIS *Forecast Source: Conab farmdocDAILY



China's Share of the United States and Brazil Soybean Exports







Brazil could convert an additional 70 million acres of pastureland to crop production – including deforestation.



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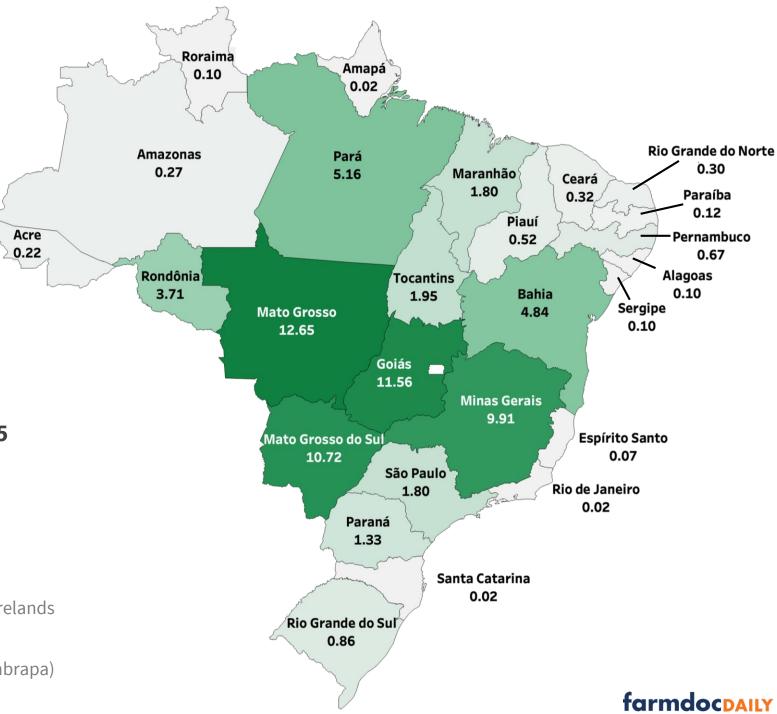
Crop Expansion
Potential in Brazil Based
on Degraded Pastureland*
(in Million Acres)



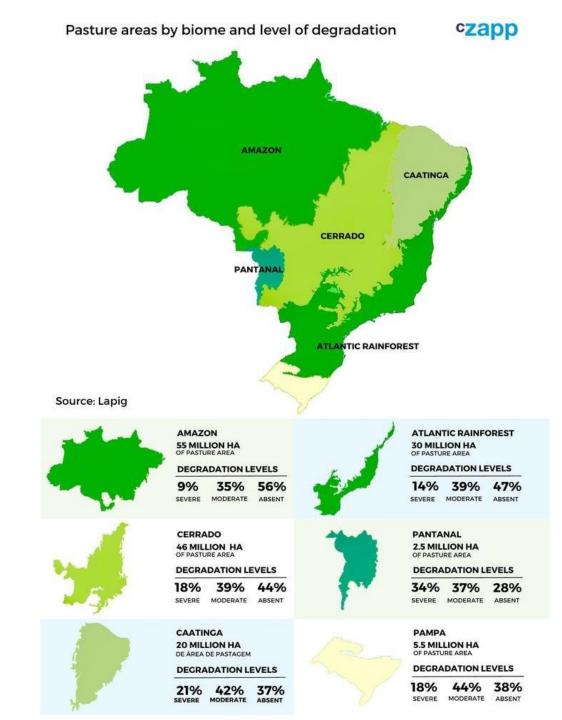
* Crop expansion potential area means degraded pasturelands with a high potential for rainfed crop plantation

Source: Brazilian Agricultural Research Corporation (Embrapa)





- Degraded pastures have been seen as potential areas for cropland expansion
- Pasture degradation is related to overgrazing, pest control, and lack of soil fertilization. Rather than improve the pasture, it is more profitable to convert it.
- Brazil converted 21 million ha
 (52 million acres) of degraded pastures
 into cropland from 2000 to 2021
 (Federal University of Goiás/UFG).



Brazil could further expand its currently cultivated area by 40 million acres by intensifying land use for second-crop corn (safrinha).



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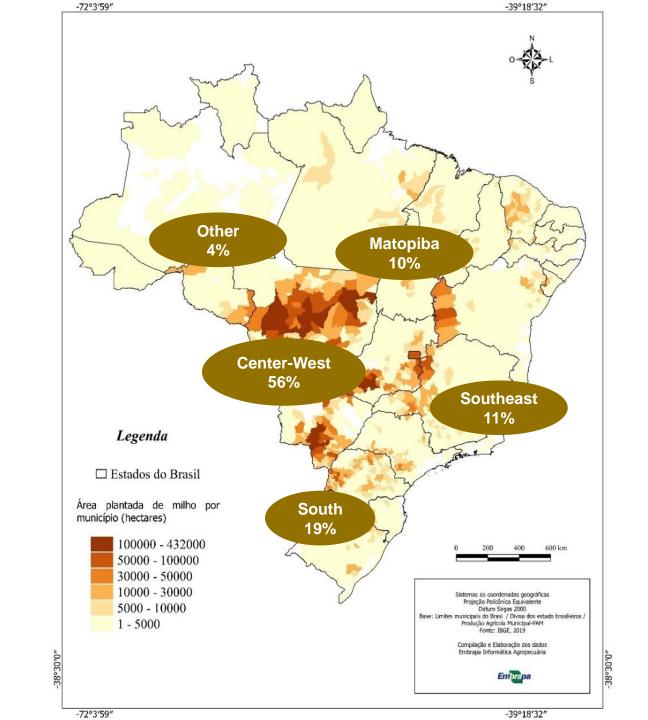
Comparison of Soybean and Second-Crop Corn Planted Area

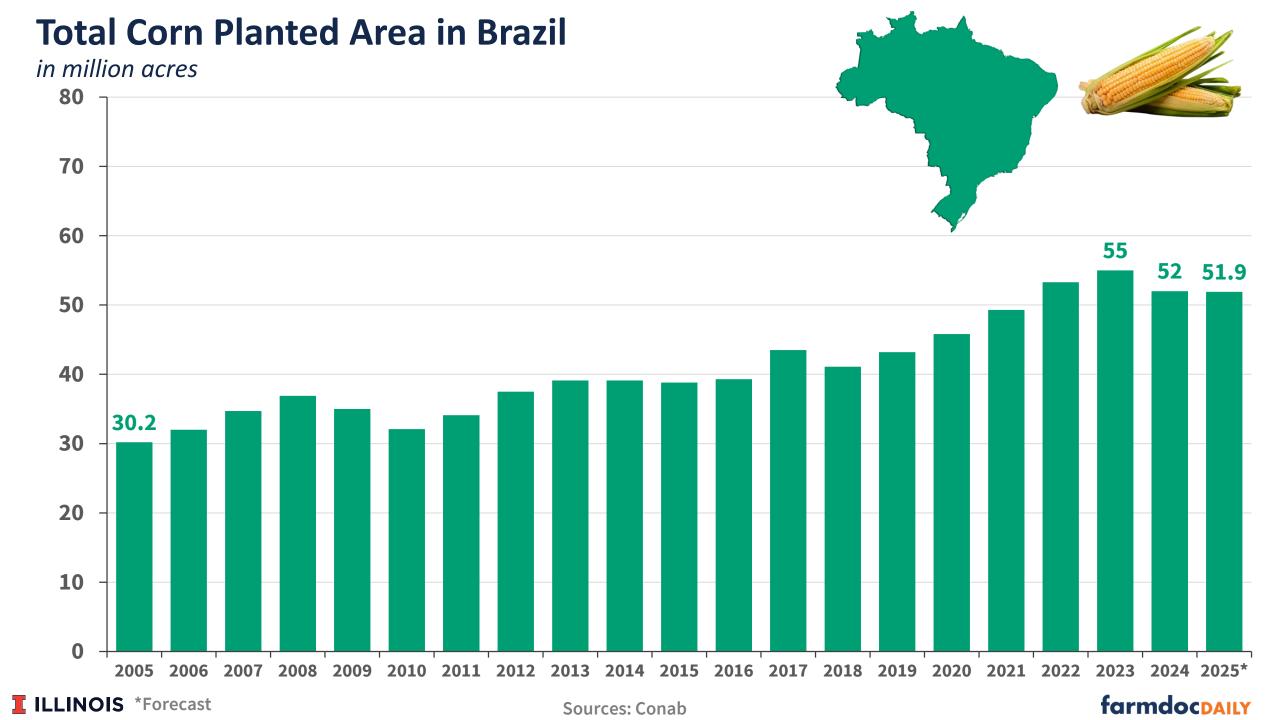
(2022/2023 Crop Season, in Million Acres) Roraima 29.9 **Amazonas** Pará Rio Grande do Norte Paraíba Soybean Second-Crop Corn Pernambuco Alagoas Tocantin Sergipe Rondônia Bahia **Mato Grosso** Goiás 🖳 18.2 **Minas Gerais** Espírito Santo São Paulo 14.3 Rio de Janeiro Paraná 11.2 Santa Catarina 9.3 Rio Grande do Sul 6.1 **5.4** 3.3 3.2 2.7 Goiás Paraná Maranhão São Paulo **Mato Grosso Mato Grosso Minas Gerais Tocantins** do Sul



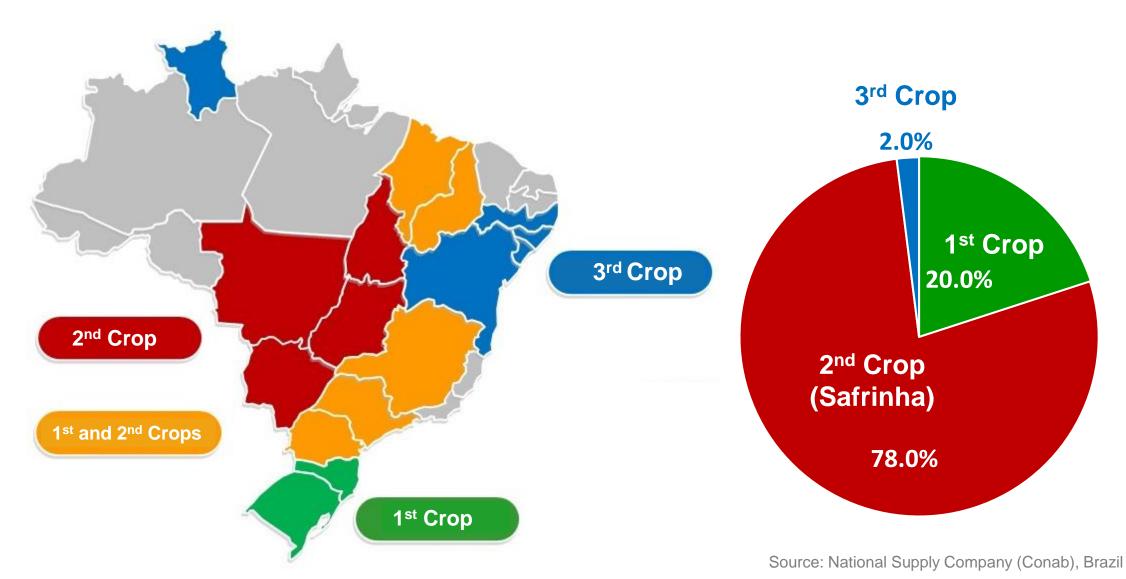
Corn by region

- More than half of corn production is concentrated in the Center-West as a second crop, planted right after the soybean harvest.
- Corn production is also advancing as a second crop into the new agricultural frontier, **Matopiba**.
- The growth in the second corn crop (safrinha) is an opportunity for Brazil to double its corn production in the coming years.





Corn Production: 3 Crops per Year





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Logistics is the biggest challenge to continue growing



©Venderson Araujo, Confederação Nacional da Agricultura





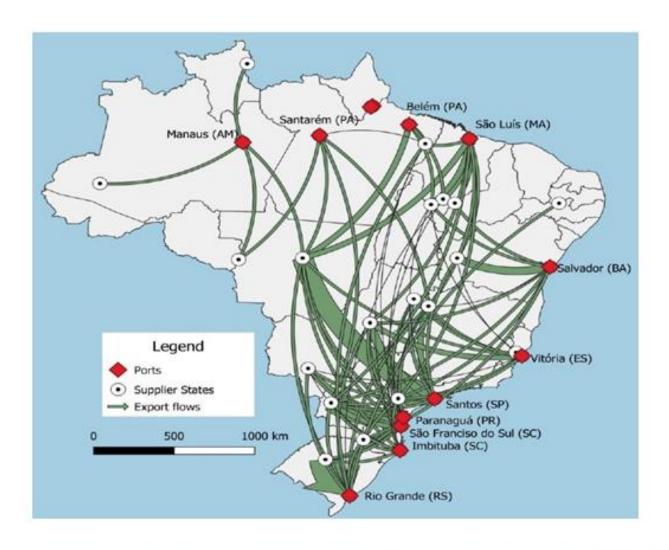
Brazil Try to Reduce the Dependence of Trucks



- Recent investments led the Brazilian government to project that barge and rail will play a more significant role.
- By 2030, the share
 of highways for general cargo
 in Brazil is expected to decrease
 from 60% to 30%.
- The role of railways in moving grain to ports will grow from 21% to 35%, and the role of barges will more than double, from 14% to 29%.



Logistics Flows of Grain Exports in Brazil

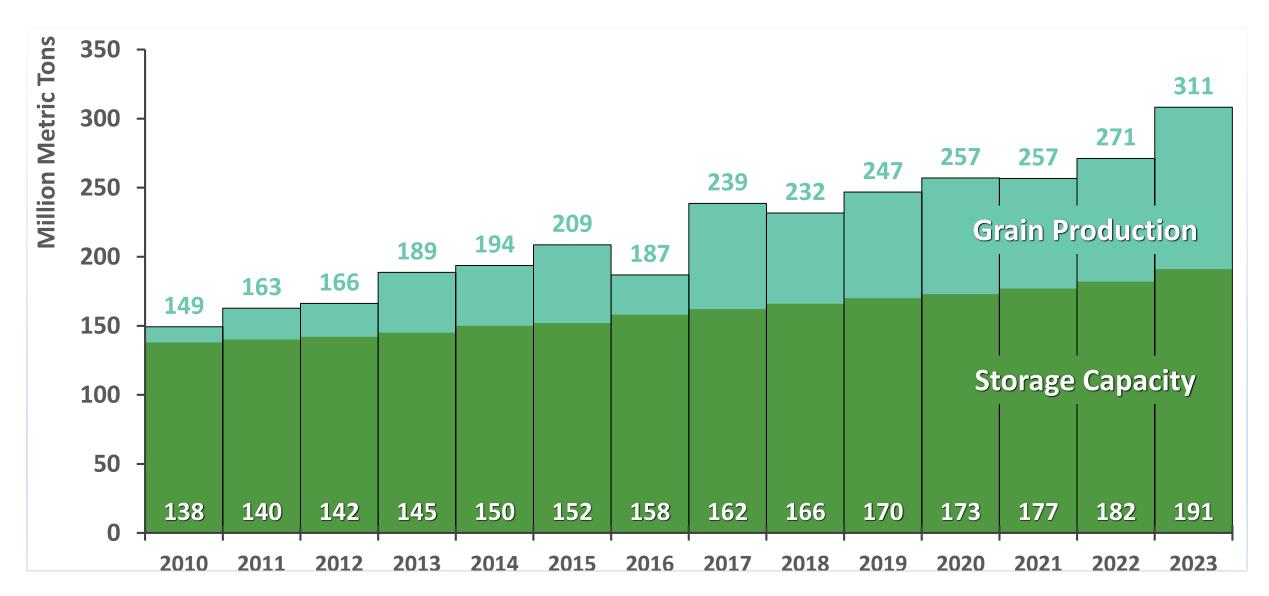








Storage deficit of 100 million tons in 2023





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Thank you! Muito obrigada!



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