NC STATE UNIVERSITY

NC STATE EXTENSION

Soybean in Brazil: Forecast and Limitations

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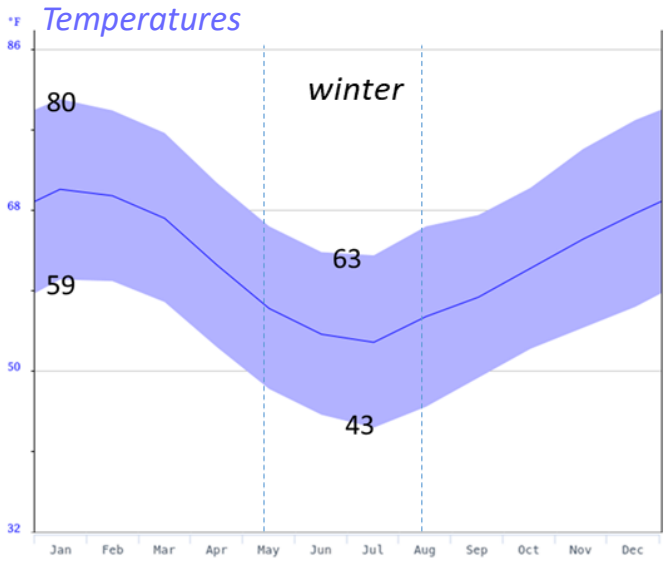
My Original Region



AGRICULTURE in SOUTHERN BRAZIL

Soybeans – 15.3 MM ac (18%)
Corn – 3.0 MM ac (7%)
Wheat – 2.0 MM ac (39%)

Pork – 67%
Chicken – 58%
Dairy – 33%

My Background

1975 – 1988 → Farming and going to a Small-Town School

1989 – 1991 → Agricultural Boarding High School

1992 – 1996 → Agronomy

1997 – 1998 → Master in Soil Science *(Soil Fertility)*

1999 – 2003 → Ph.D. in Soil Science *(Soil Fertility)*

2004 – 2019 → Professor of Soil Fertility *(Santa Catarina State University, Brazil)*

2019 - current → Assist. Professor & Soil Fertility Specialist

APPOINTMENT at NC State

20 % Teaching

SCC 541 – Soil Fertility (Grad Program in Soil Science)

80 % Extension

Support to Extension Agents & Farmers

Conduct an Applied Research Program in Soil Fertility for NC Soils

Work with NCDA&CS to refine the Fertilizer Recommendations

Ongoing Projects

Topic 1 - Soil Fertility Calibration

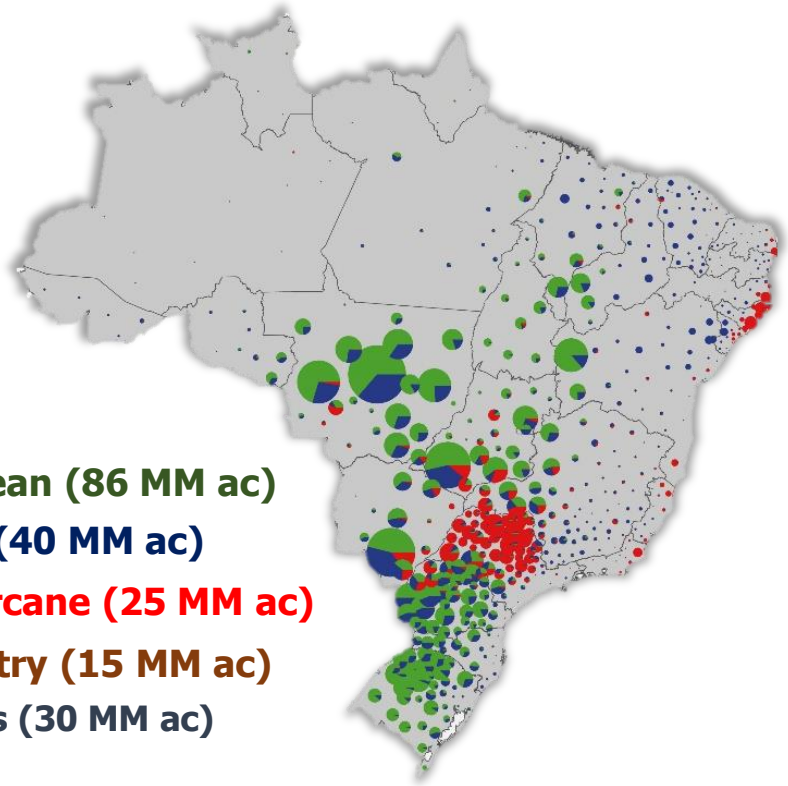
- NPK & inoculation needs for High-yelding Soybeans
- P & K calibration in Long-term Corn/Soybean trials
- Going over old data to revise the recommendations

Topic 2 - Soil Fertility & Soil Health Status

- Soil samples of every County of NC

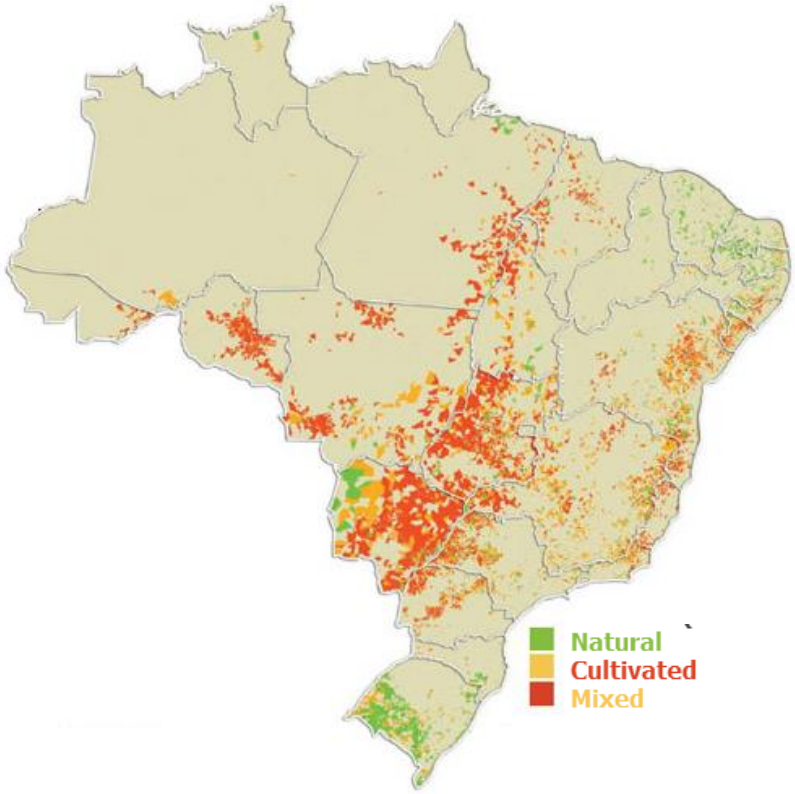
Brazil – A lot of Available Land

Agriculture Acreage: 196 MM ac

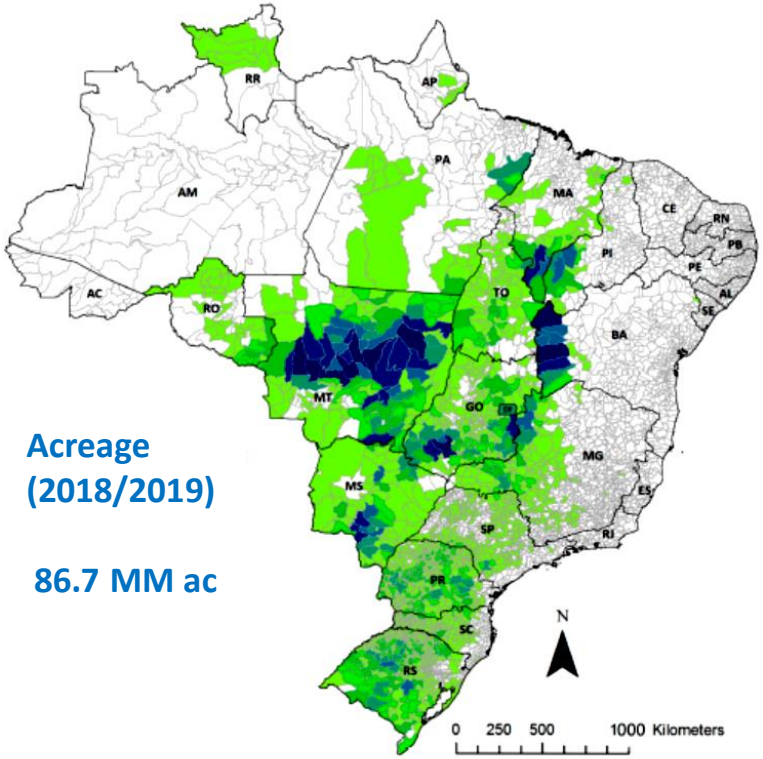


Soybean (86 MM ac)
Corn (40 MM ac)
Sugarcane (25 MM ac)
Forestry (15 MM ac)
Others (30 MM ac)

Pastures Acreage: 420 MM ac

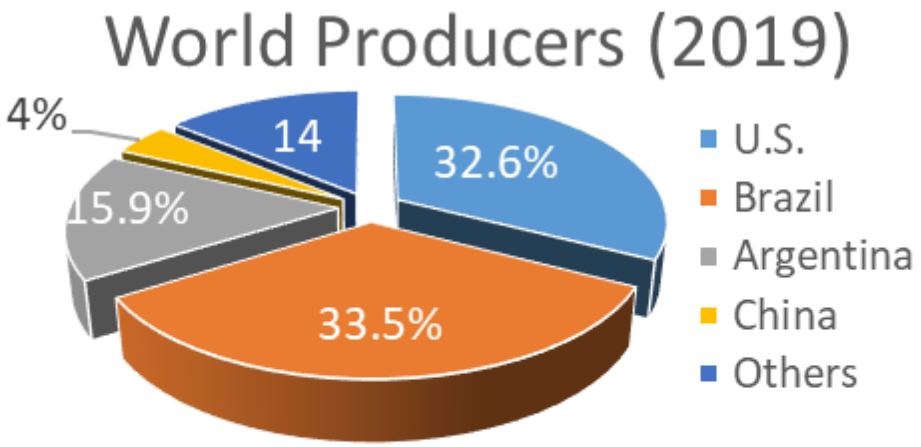


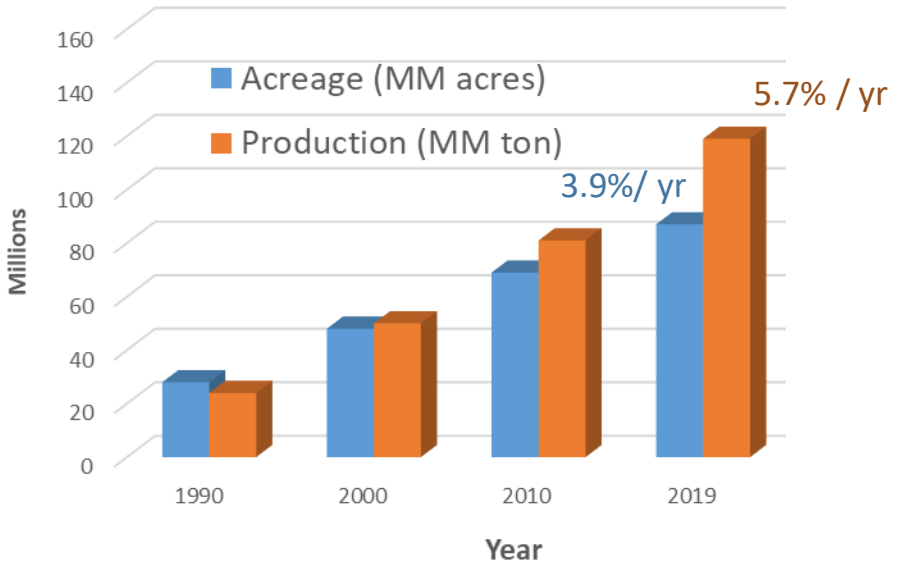
Soybean Production



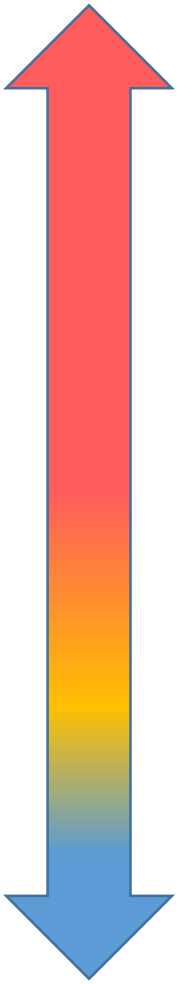
Acreage (2018/2019)

86.7 MM ac

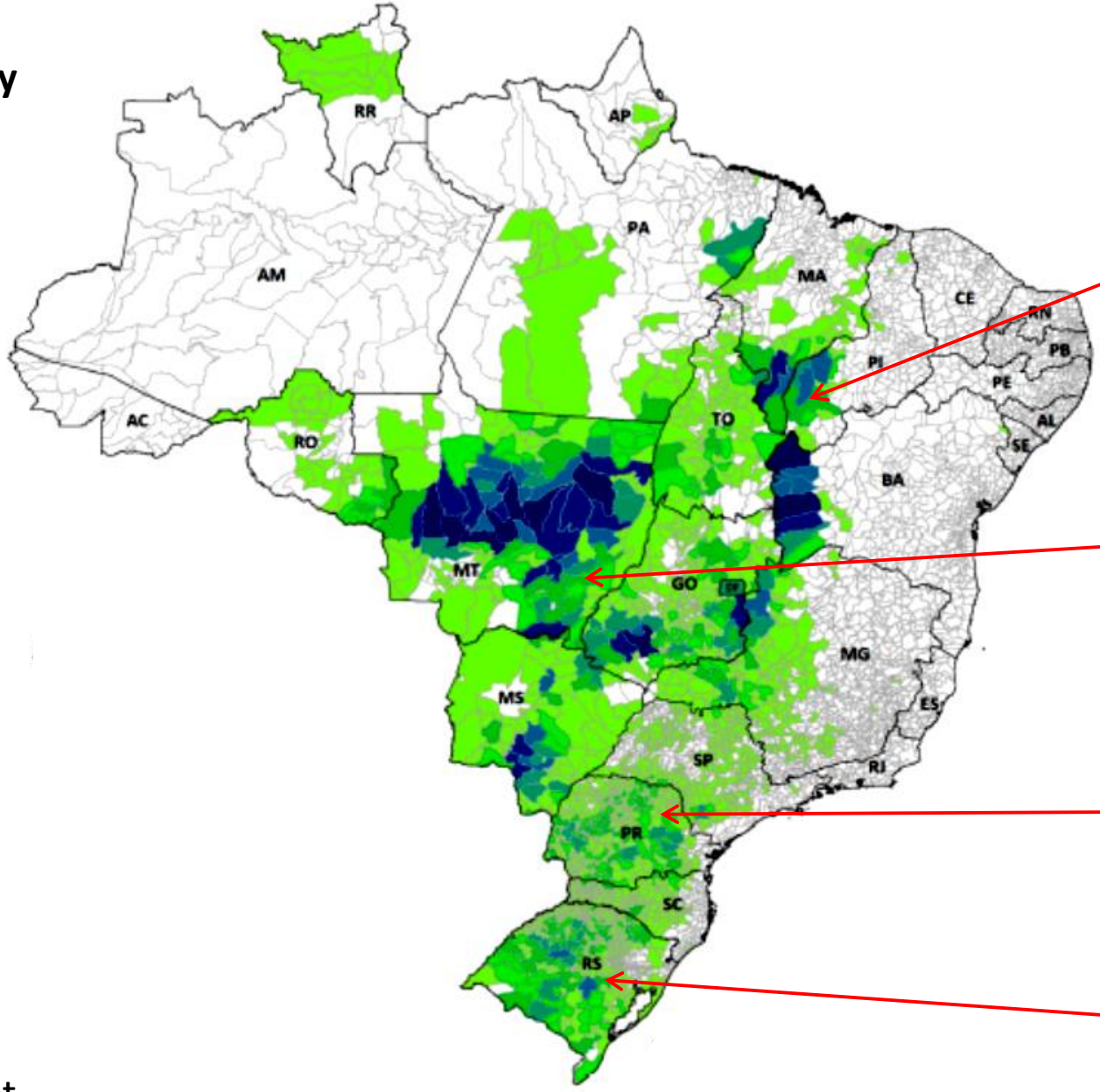


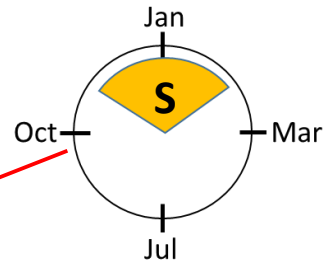


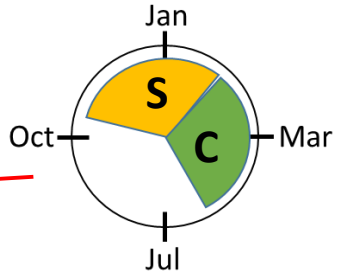
Hot & **Dry** Winter

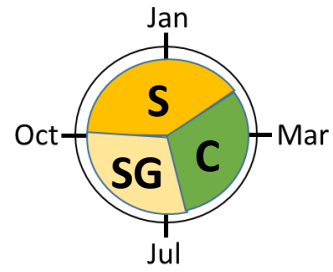


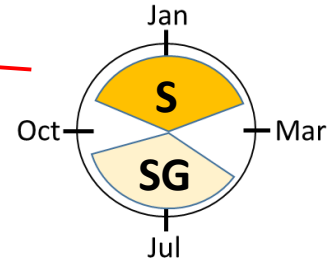
Cold & Wet Winter











S = soybean
C = corn
SG = small grain

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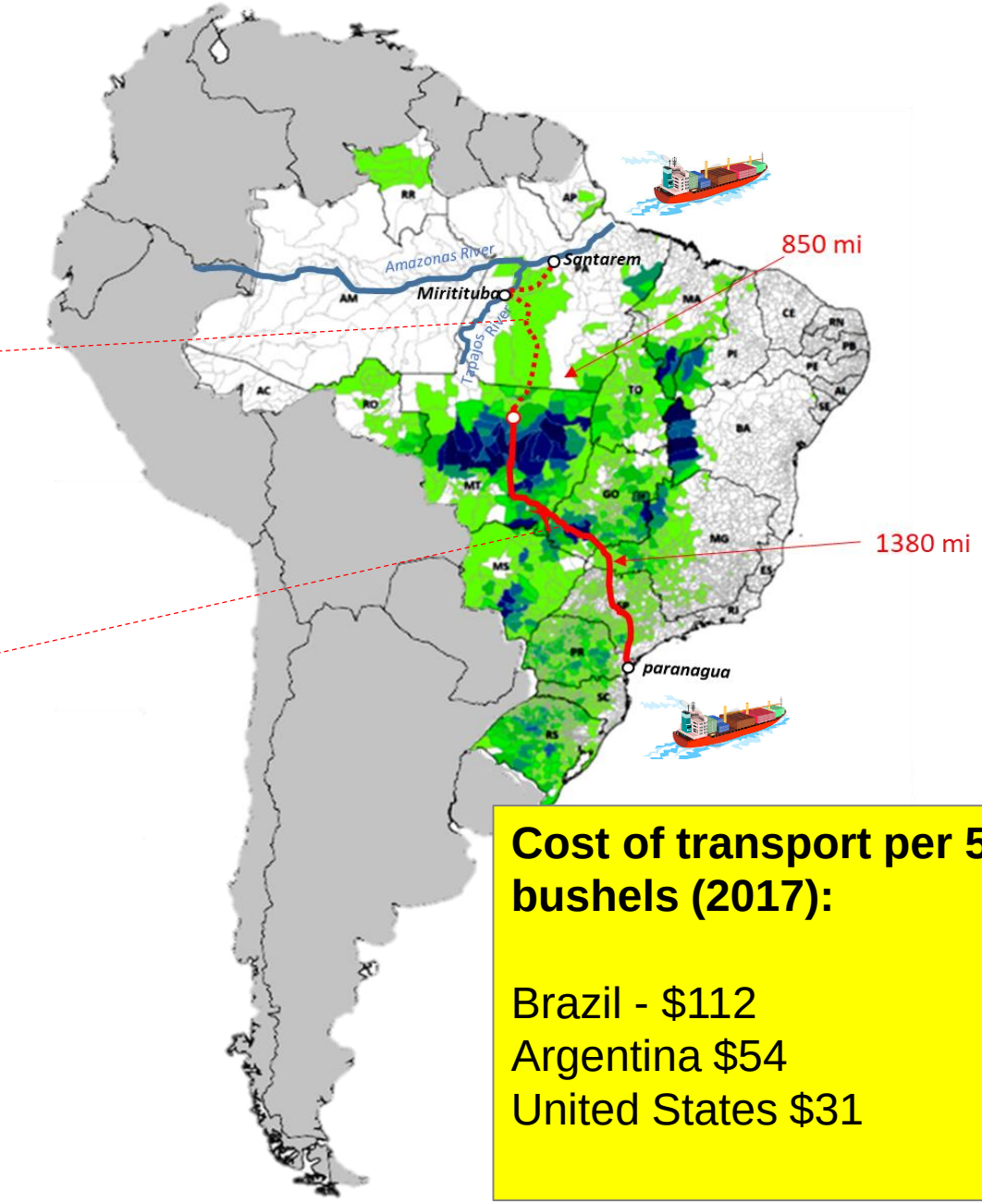
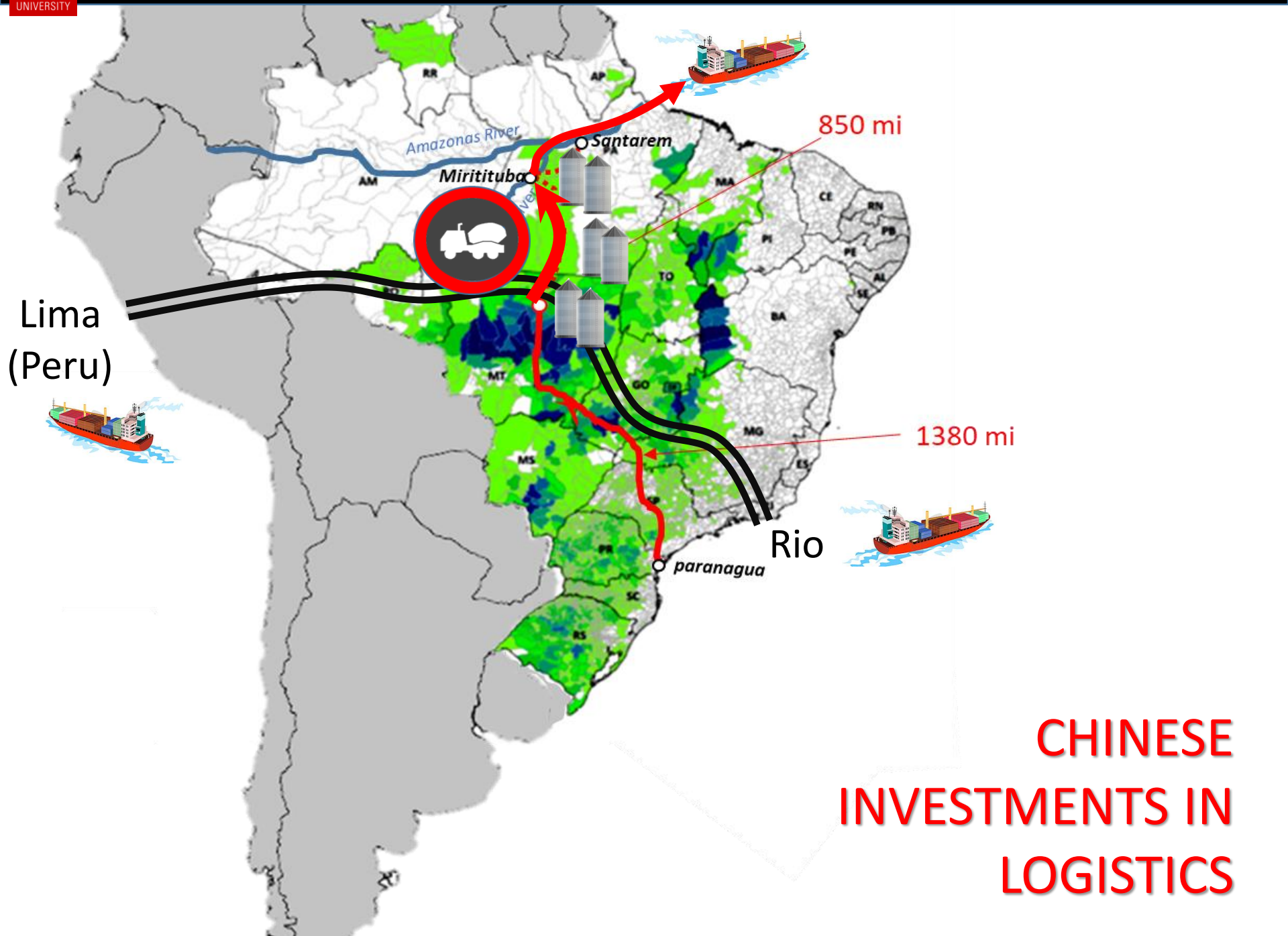
Brazilian Soybean - Major Limitation is logistics



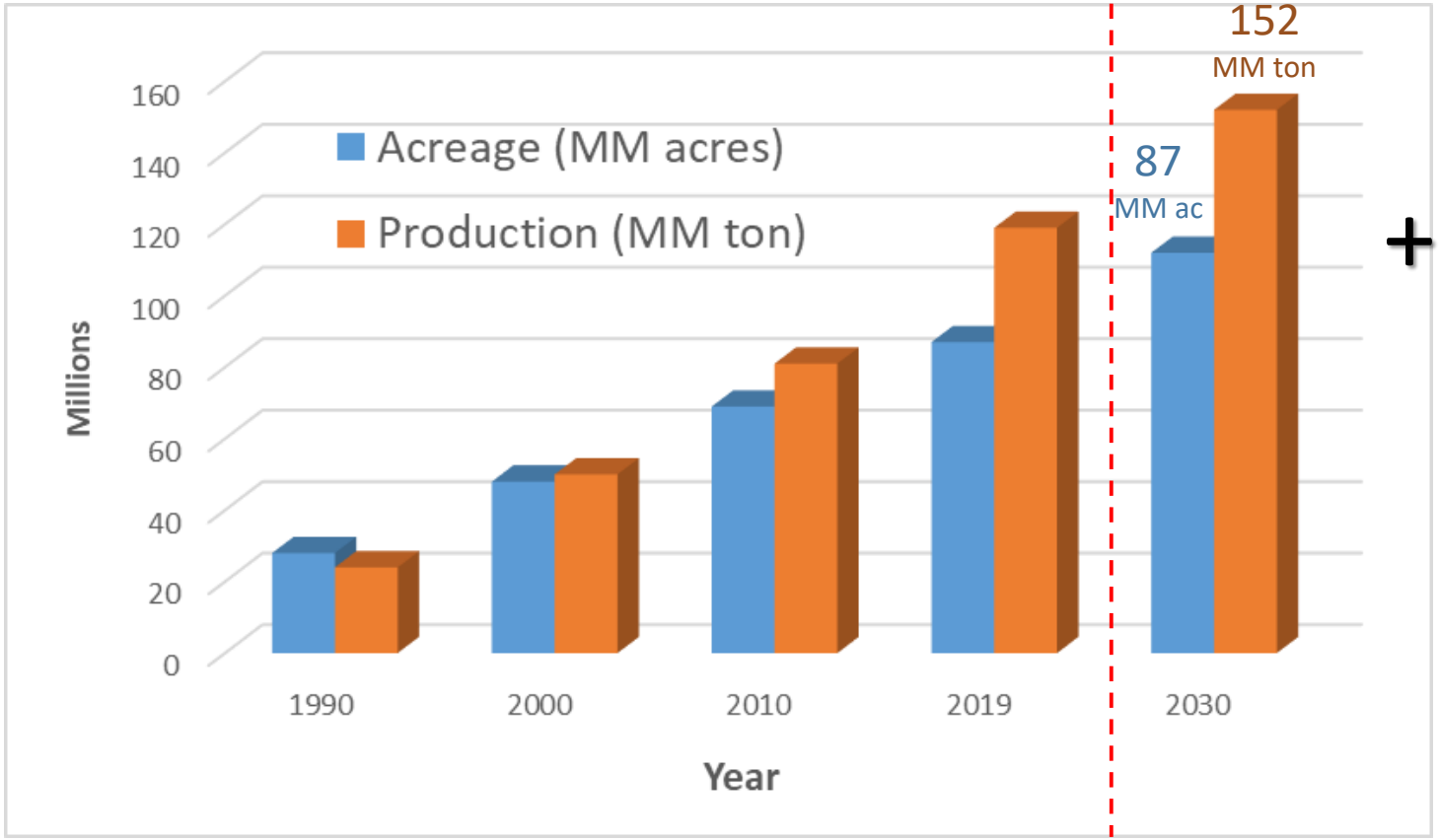
Cost of transport per 50 bushels (2017):

Brazil - $112
Argentina $54
United States $31



CHINESE INVESTMENTS IN LOGISTICS

Final Remarks



+ 28%

Brazilian Acreage is spected to keep growing

Logistics is the weakness

Thank you!

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