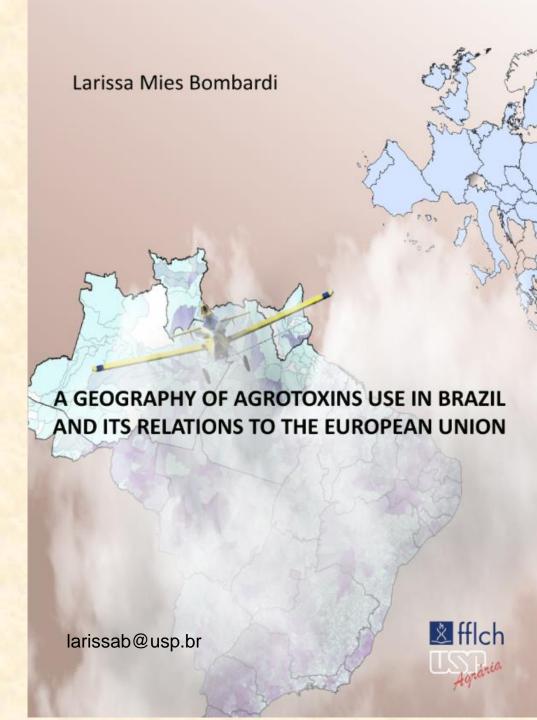
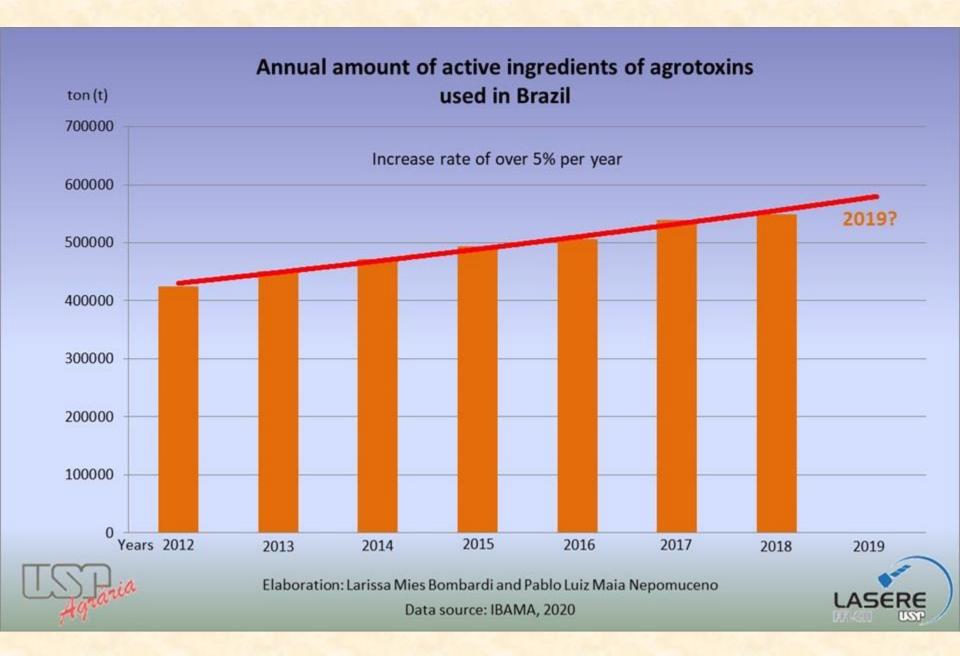
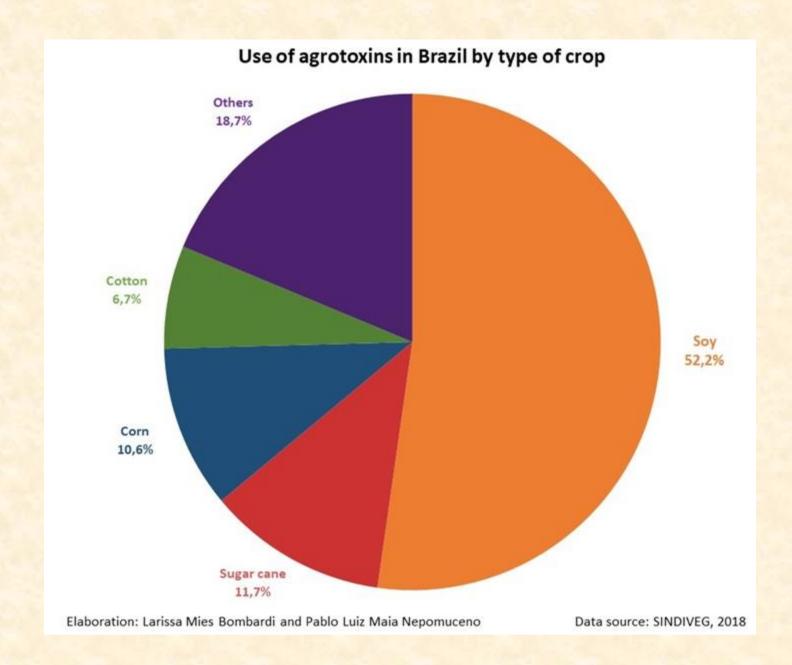
The use of pesticides in Brazil: environment and childhood under attack.





## Brazil – One of the main worldwide exporters of:

- Soy
- Sugar
- Ethanol (cane)
- Coffee
- Orange Juice
- Tobacco
- Maize
- Beef
- Chicken

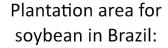


#### BRAZIL AREA OCCUPIED WITH SOYBEAN

### COMPARED WITH THE AREA OF COUNTRIES OF THE EUROPEAN UNION

(hectares)

### 10.9x Belgium





Land area of Belgium: 3,053,000 ha

### 3.6x Portugal





Land area of Portugal: 9,209,000 ha

33,245,190 ha

4.2x Scotland



Land area of Scotland: 7,877,200 ha

- The representation of the European union countries are proportional themselves;
- The representation of Brazil relation to the countries of the European Union was 6.8 times reduced in order to enable its illustration in parallel to the others.

### Postgraduate Program in Human Geography - USP

Laboratory of Agrarian Geography

Preparation: Professor Larissa Mies Bombardi

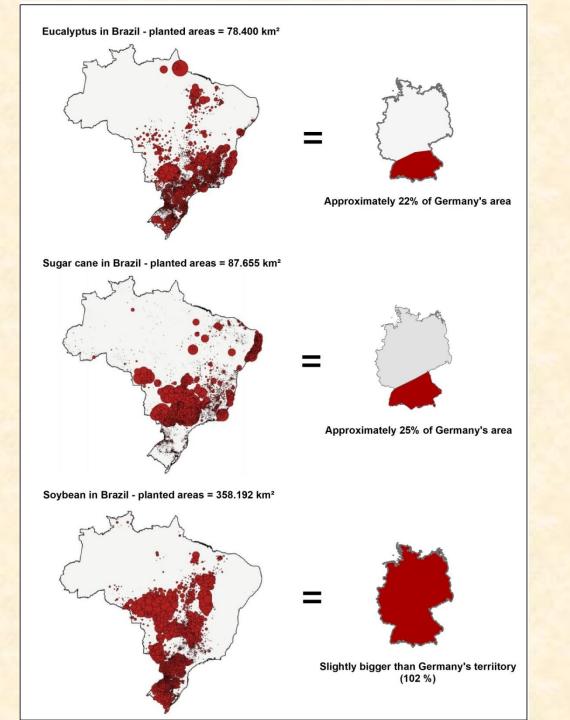
Data source: IBGE

Mapping software: Philcarto I Mapping base: IBGE

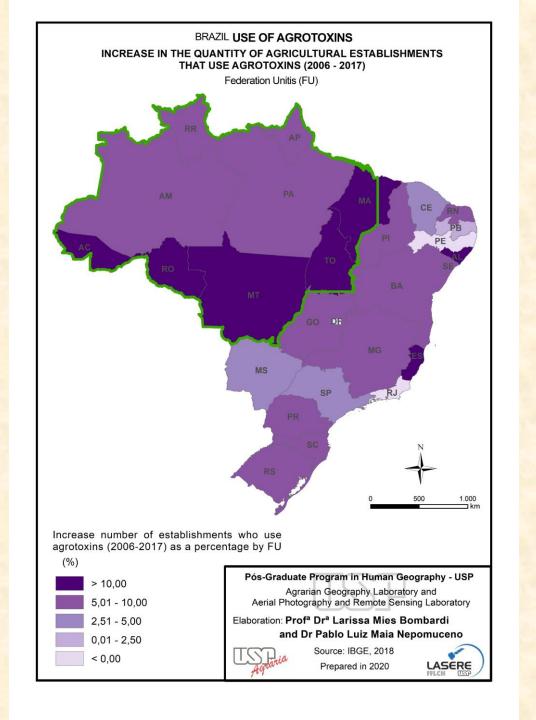
CAPES

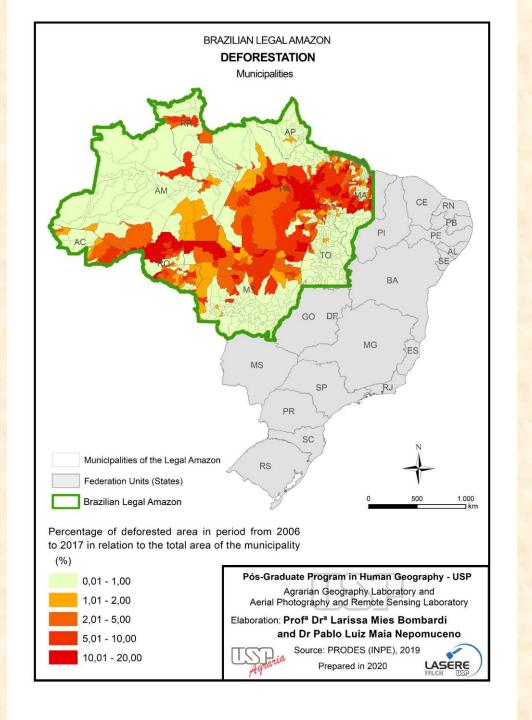
Mapping: Eduardo Penha Support: CAPES / FAPESP

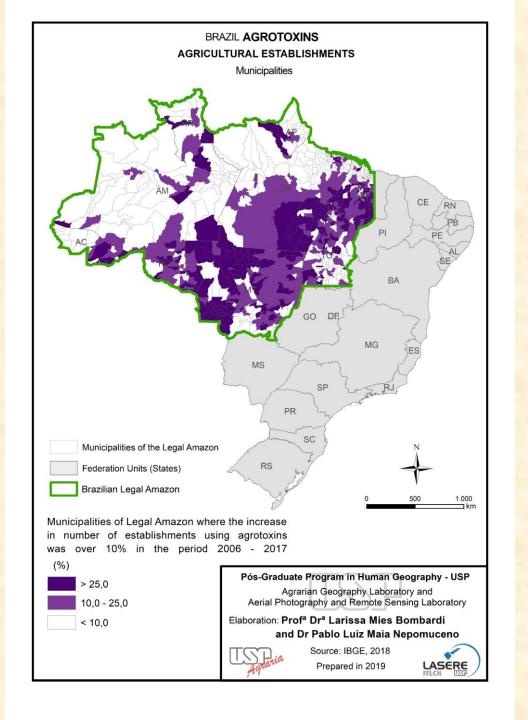


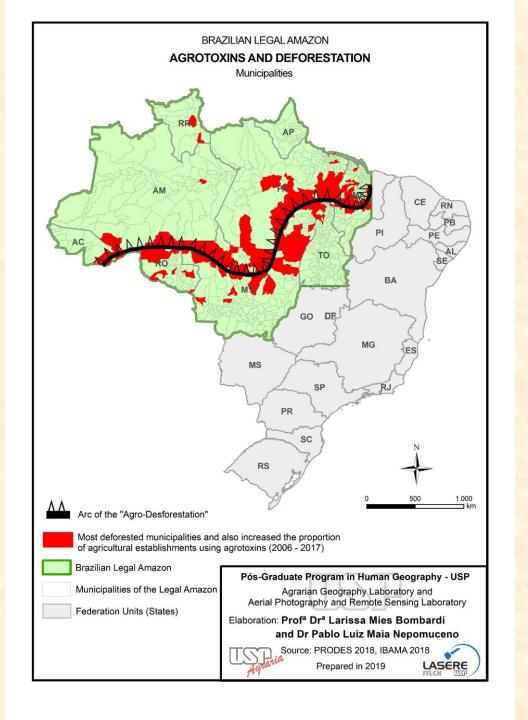


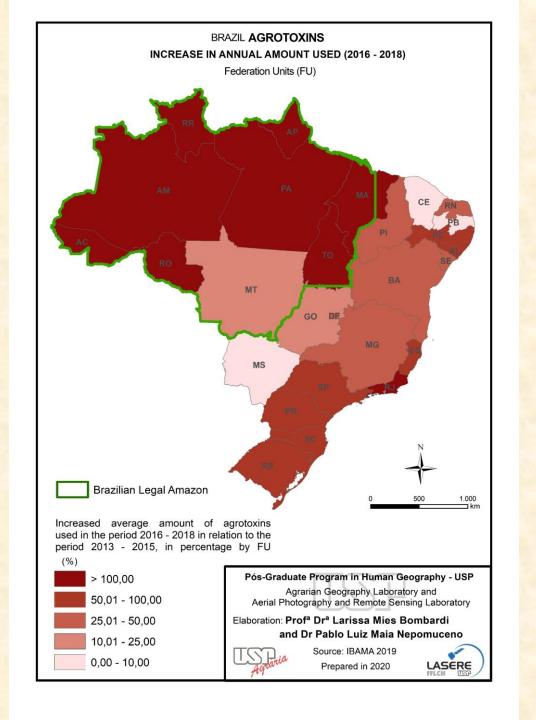
# CROPS IN BRAZIL AND GERMANY'S TERRITORY

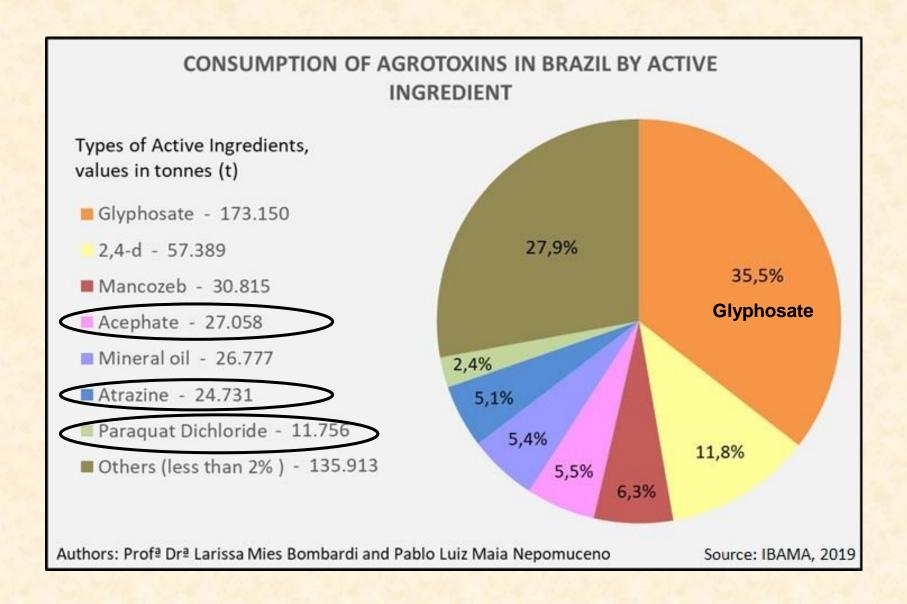


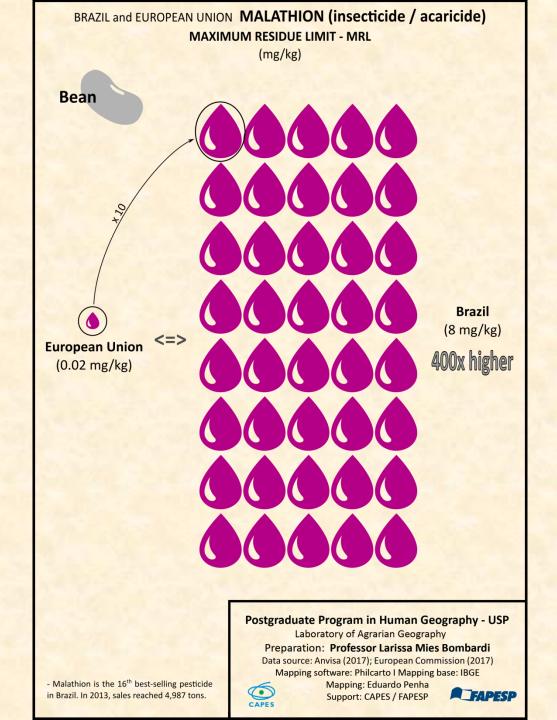












### $(\mu g/L)$ 2.4-D (herbicide) Brazil (30 μg/L) 300x higher **European Union** $(0.1 \, \mu g/L)$

BRAZIL and EUROPEAN UNION DRINKING WATER

MAXIMUM RESIDUE LIMIT - MRL

Postgraduate Program in Human Geography - USP

Laboratory of Agrarian Geography

Preparation: Professor Larissa Mies Bombardi

Data source: Anvisa (2017); European Commission (2017) Mapping software: Philcarto I Mapping base: IBGE

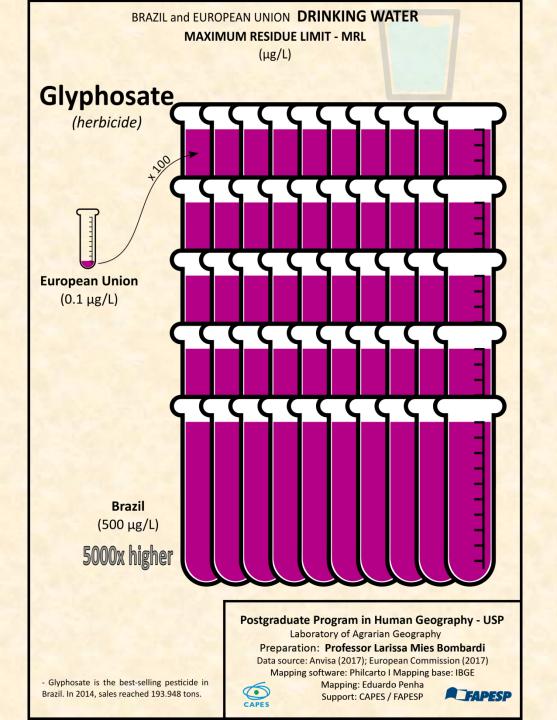
CAPES

Mapping: Eduardo Penha Support: CAPES / FAPESP

FAPESP



- 2.4-D is the second best-selling pesticide in Brazil. In 2014, sales reached 36,514 tons.



# **BRAZIL** 2009 - 2019

48,150 Intoxicated People 4,377 per year

= 12 per day

Obs: Estimated subnotification: 1 for 50

Possibly: 2.4 million people

Source: BRAZIL – Health Ministry, 2020

## **Brazil - Children and Teenagers Intoxicated by Pesticides**

2009 - 2019

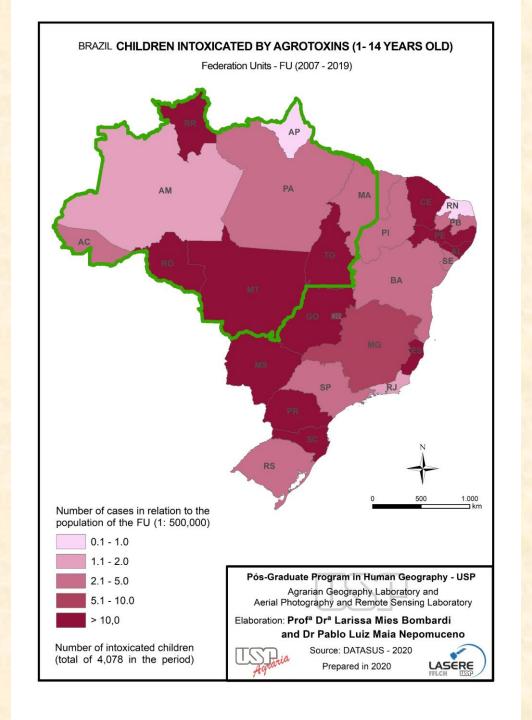
48,150 Intoxicated People (Total)



8,514 - 0 and 19 Years Old

Obs: Estimated subnotification: 1 for 50

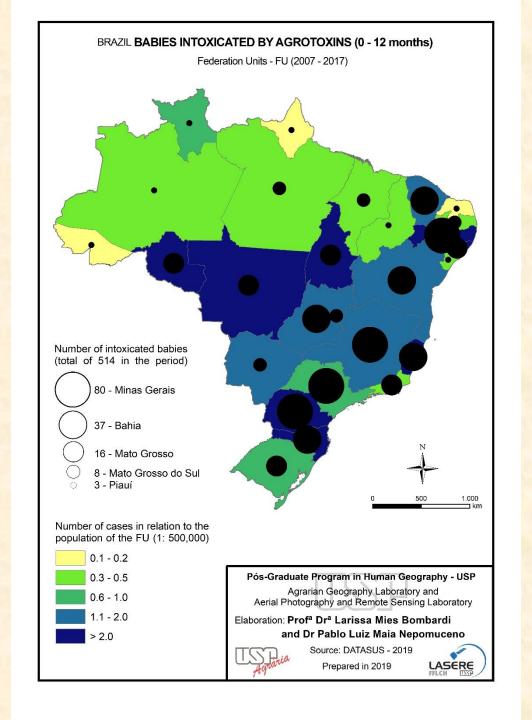
Source: BRAZIL – Health Ministry, 2020

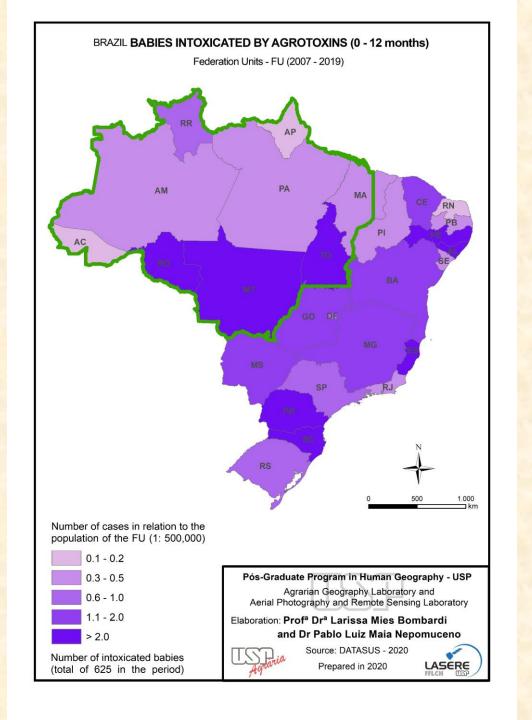


## BRAZIL – Children and Teenagers Suicide Attempts (Using Agrotoxins) – 2009-2019

- 5 9 years old 12 reported cases
- 10 14 years old 500 reported cases
- 15 19 years old 2354 reported cases

= 2866 (total reported cases)





### **BRAZIL**

- 625 babies (0 12 months old) intoxicated by agrotoxins between 2007 and 2019 (reported cases).
- Possibly: 31,250 babies (0 12 months old)
   intoxicated between 2007 and 2014.

Source: Brazil Health Ministry /SINAN/2020

## A Geography of Agrotoxins Use in Brazil and its Relations to the European Union

Available for download on:

http://www.livrosabertos.sibi.usp.br/portal delivrosUSP/catalog/book/352

larissab@usp.br