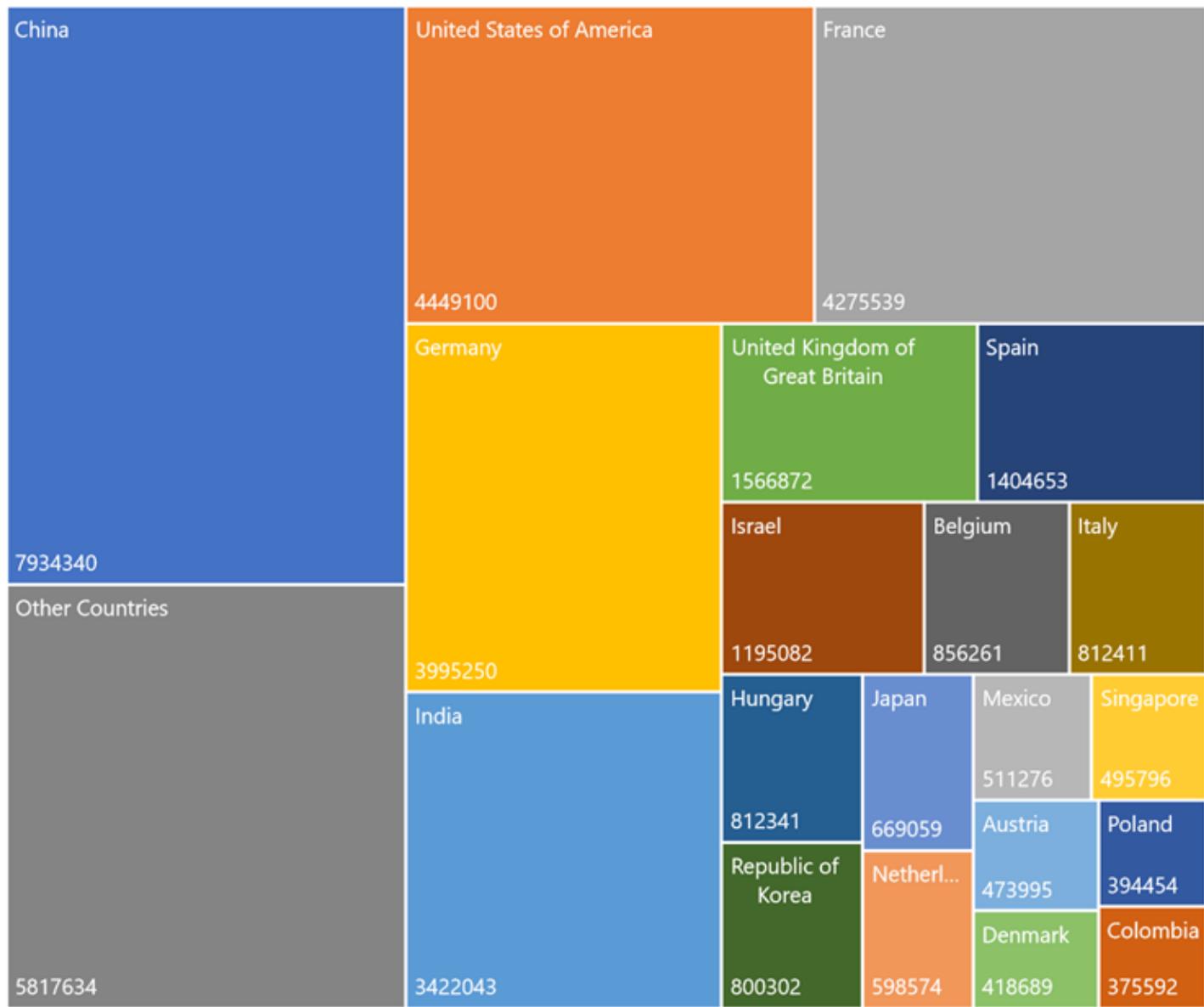


# CHEMICAL COLONIALISM

Prof Dra Larissa Bombardi

### Pesticides exports in 2020 (in US\$ million)



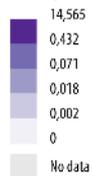
EU COUNTRIES:

US\$ =  
13,568,172

# PESTICIDE EXPORTATION BY BELGIUM |2021|

Export of insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant growth regulators, disinfectants and similar products, put up for retail sale or as preparations or articles.

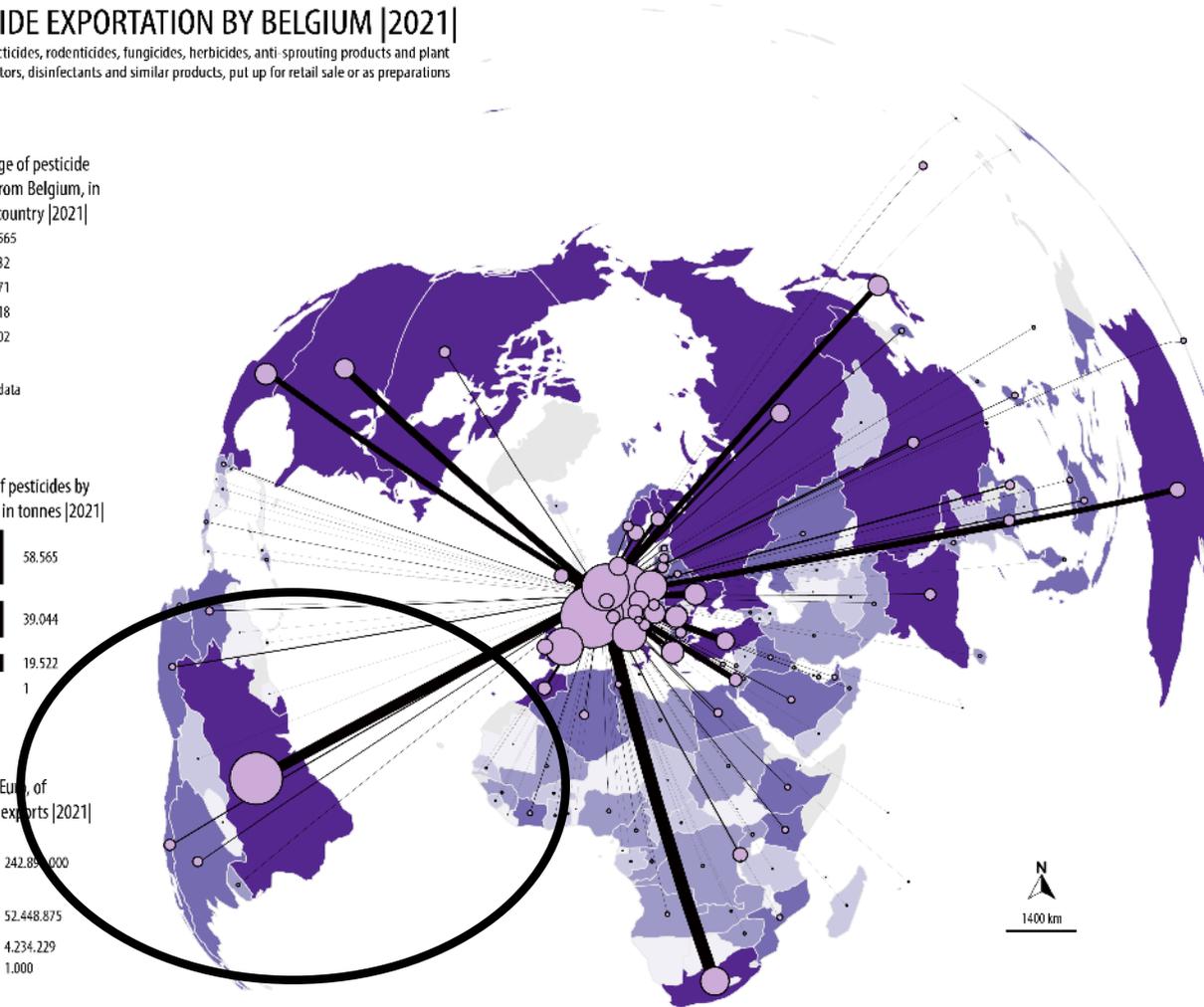
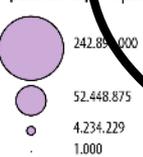
Percentage of pesticide exports from Belgium, in tons, by country [2021]



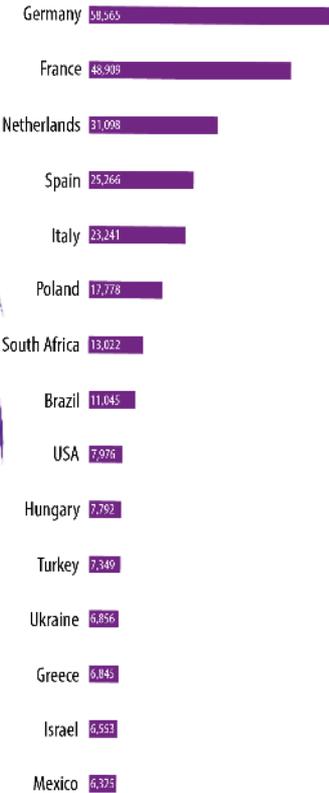
Exports of pesticides by Belgium, in tonnes [2021]



Value, in Euro, of pesticide exports [2021]



## Group of 15 largest pesticide importers from Belgium [2021]



Projection: ETRS89 / IAEA Europe

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Source: <https://www.trademap.org/>  
 Organisation: Dr. Larissa Mies Bombardi; Elaboration: Pablo L. M. Nepomuceno and Valdeir S. Cavalcante Gonçalves, [Jul. 2022]

# Bayer - Pesticides sales in Brazil

## Substances banned or not approved in the EU

Ciclanilida	Beta-Ciflutrina
Ciproconazol	Clorotalonil
Diurom	Etiprole
Etoxissulfurom	Indaziflam
Oxadiazona	Propiconazol
Tiacloprido	Tuaduazurom
Tiodicarbe	Tiram
Triflumurom	

Data collecting and organization: Professor Sonia Hess.

# BASF - Pesticides sales in Brazil - Substances banned or not approved in the EU

Alfa-cipermitrina	Imazapique
Cianamida	Imazapir
Saflufenacil	Imzetapir
Ciclanilida	Beta-Ciflutrina
Clotianidina	Clorfenapir
Ciproconazol	Clorotalonil
Dinotefuram	Epoxiconazol
Diurom	Etiprole
Etoxissulfurom	Indaziflam
Fenpropimorfe	Fipronil
Flufenoxurom	Glufosinato
Oxadiazona	Propiconazol
Tiacloprido	Tuadazurom
Tiodicarbe	Tiram
Triflumurom	Teflubenzurom

Data collecting and organization:  
Professor Sonia Hess.

# Organophosphate poisoning of Hyacinth Macaws in the Southern Pantanal, Brazil

Eliane C. Vicente & Neiva M. R. Guedes



**Endangered species:**

Hyacinth Macaws (Arara Azul)

Source: Organophosphate poisoning of Hyacinth Macaws in the Southern Pantanal, Brazil (nature.com)

# Jaguar dead from pesticide poisoning

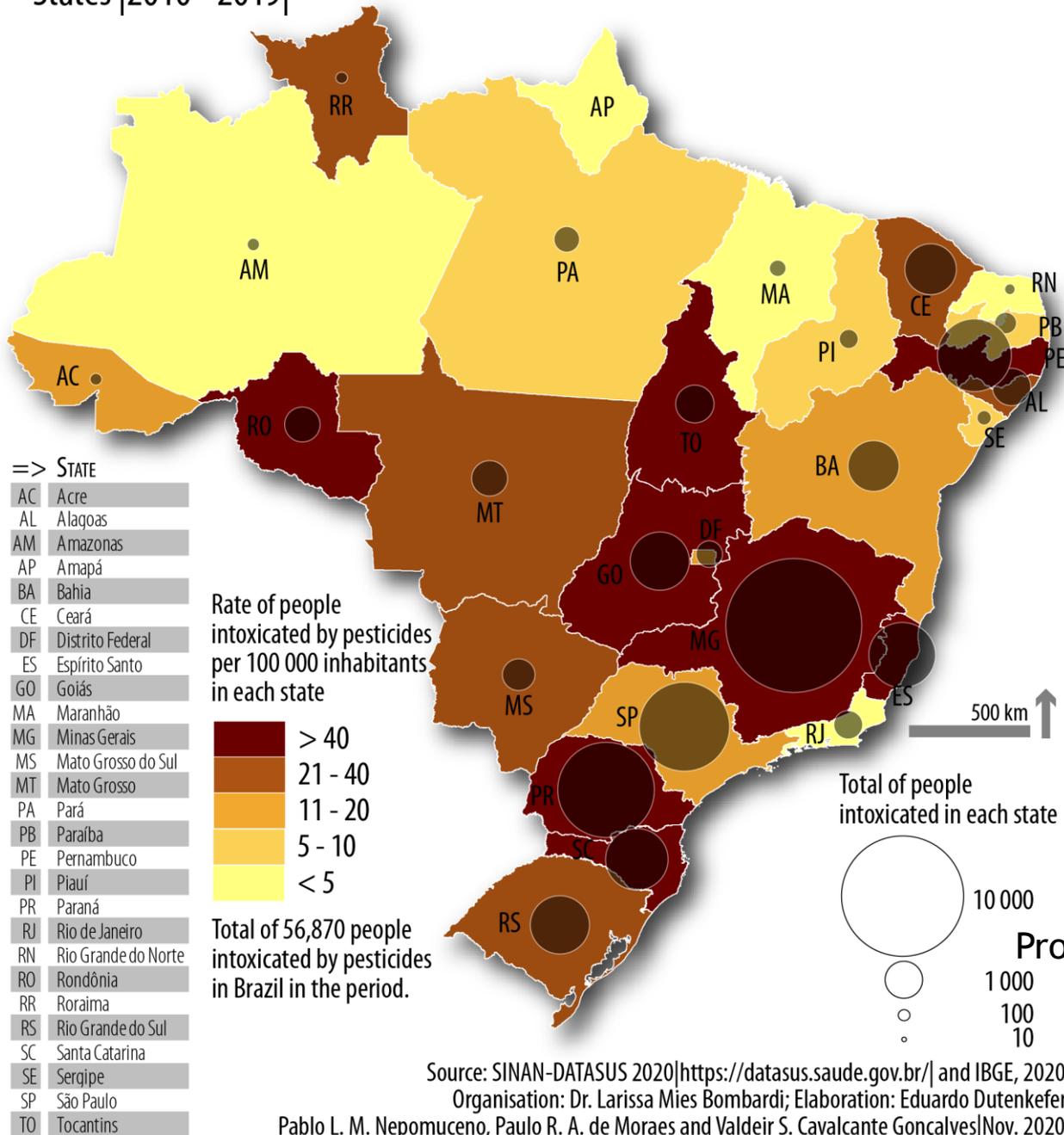


The Federal Police concluded that the death of two jaguars and 18 other animals was criminal and poisoning...(they) died after consuming a bovine carcass poisoned with carbofuran.

<https://oeco.org.br/noticias/oncas-encontradas-mortas-no-pantanal-foram-envenenadas-por-agrotoxico-conclui-pf/>

# BRAZIL - PEOPLE INTOXICATED BY PESTICIDES

States |2010 - 2019|

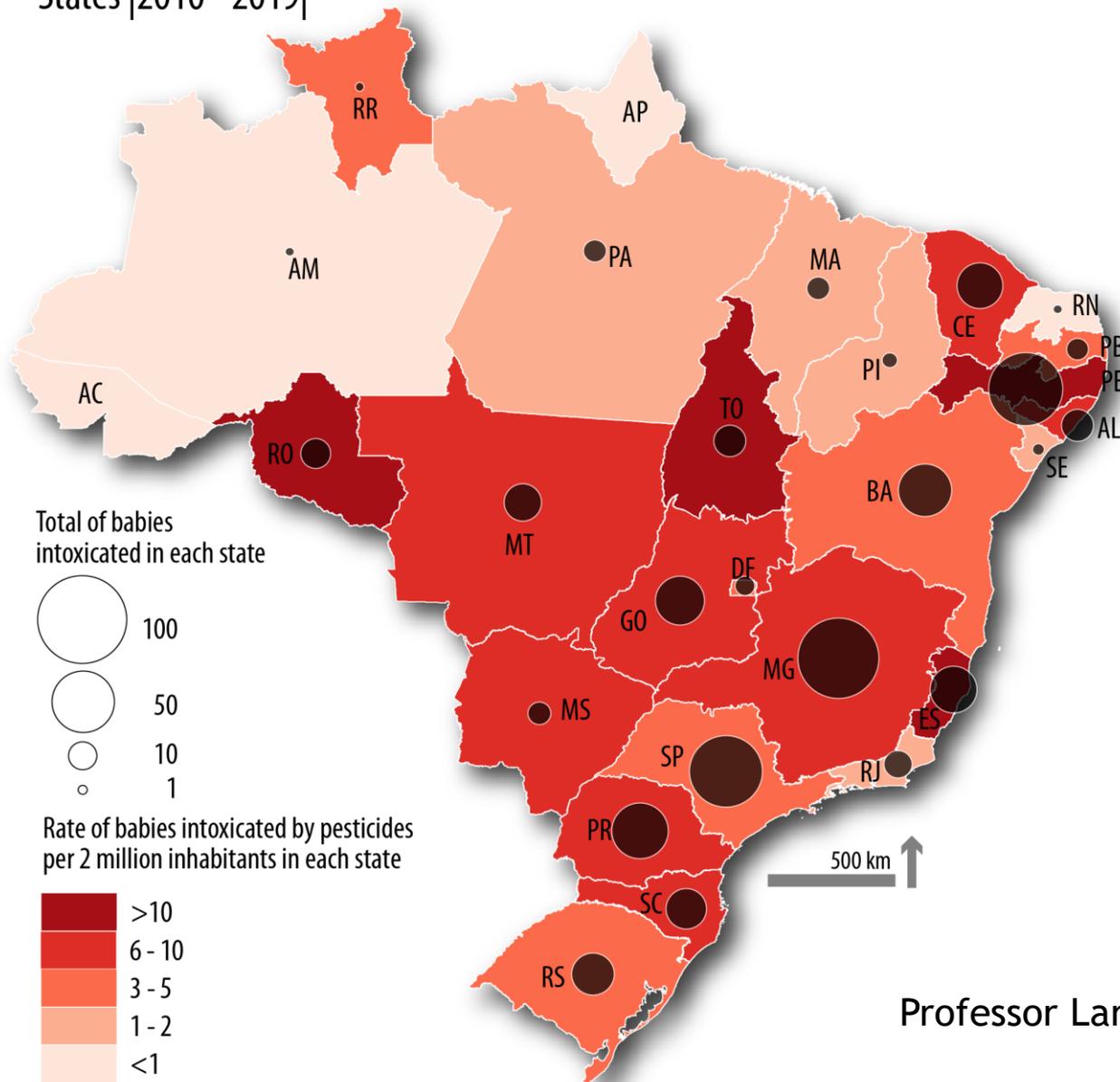


Source: SINAN-DATASUS 2020|<https://datasus.saude.gov.br/> and IBGE, 2020;  
 Organisation: Dr. Larissa Mies Bombardi; Elaboration: Eduardo Dutenkefer,  
 Pablo L. M. Nepomuceno, Paulo R. A. de Moraes and Valdeir S. Cavalcante Gonçalves|Nov. 2020|

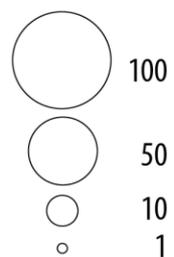
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# BRAZIL - BABIES INTOXICATED BY PESTICIDES [0-12 months]

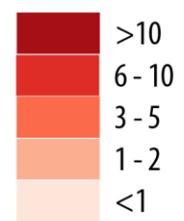
States [2010 - 2019]



Total of babies intoxicated in each state



Rate of babies intoxicated by pesticides per 2 million inhabitants in each state



500 km ↑

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Total of 542 babies intoxicated by pesticides in Brazil in the period

Source: SINAN-DATASUS 2020|<https://datasus.saude.gov.br/> and IBGE, 2020;  
Organisation: Dr. Larissa Mies Bombardi; Elaboration: Eduardo Dutenkefer, Pablo L. M. Nepomuceno, Paulo R. A. de Moraes and Valdeir S. Cavalcante Gonçalves|Nov. 2020|

# BRASIL - POPULAÇÃO ATINGIDA POR PULVERIZAÇÃO AÉREA DE AGROTÓXICOS

## INTOXICAÇÃO

Regiões Brasileiras [2013 a 2021]

✈ - Atingido(a) por pulverização aérea  
 ✈ - Localização do município de ocorrência

**Buriti - MA**  
 Comunidade é intoxicada por agrotóxico lançado de avião em Buriti, no Maranhão. Vídeo mostra avião que teria lançado o produto sobre um menino. Outras 8 pessoas também foram atingidas.  
 Globo / G1 | 06/05/2021

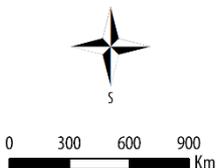
**Pau D'Arco - PA**  
 Agrotóxicos são lançados de avião sobre crianças e comunidades em disputa por terra. Criança de 7 anos ficou com feridas abertas pelo corpo após levar banho de agrotóxico. Moradores de comunidades rurais no Maranhão e Pará gravaram o momento em que os aviões jogam pesticidas sobre suas casas em áreas disputadas com grandes fazendeiros.  
 Reporter Brasil / Agência Pública | 04/05/21

**Espigão Alto do Iguaçu - PR**  
 Nuvem de Paraquate, potencialmente fatal, intoxicou 96 pessoas, a maioria crianças que estavam em escola vizinha à área de plantação.  
 Pública | 11/12/2018

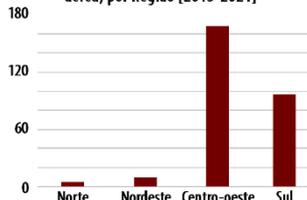
**Bela Vista de Goiás - GO**  
 Um dia, 47 intoxicados: cidade goiana sente na pele o avanço da soja e do veneno (...)  
 Brasil de Fato | 11/05/2021



Percentual de casos noticiados em que houve contaminação, de homens e mulheres, devido à pulverização aérea de agrotóxicos, por Região [2013 a 2021]



Atingidos por agrotóxicos devido a pulverização aérea, por Região [2013-2021]



Fonte: IBGE (2013); Ministério da Saúde[2013]; Org. Fase [2015]; Reporter Brasil [2015/2021]; HRV [2015/2017]; Pública [2018]; Fiocruz [2020/2021]; Brasil de Fato (2021); ICV [2021]; Globo [2021] e Vecteezy.com (Vetor).  
 Elaboração: Profª Drª. Larissa Mies Bombardi  
 Cartografia: Pablo Luiz Maia Nepomuceno, Thatyane Mônico Nascimento e Valdeir S. Cavalcante Gonçalves.[Jul.2021]

Aerial spraying:  
 Pesticides used as weapons in  
 land conflicts

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Aerial spraying:  
Pesticides used as weapons in land conflicts -  
Indigenous People - Territory

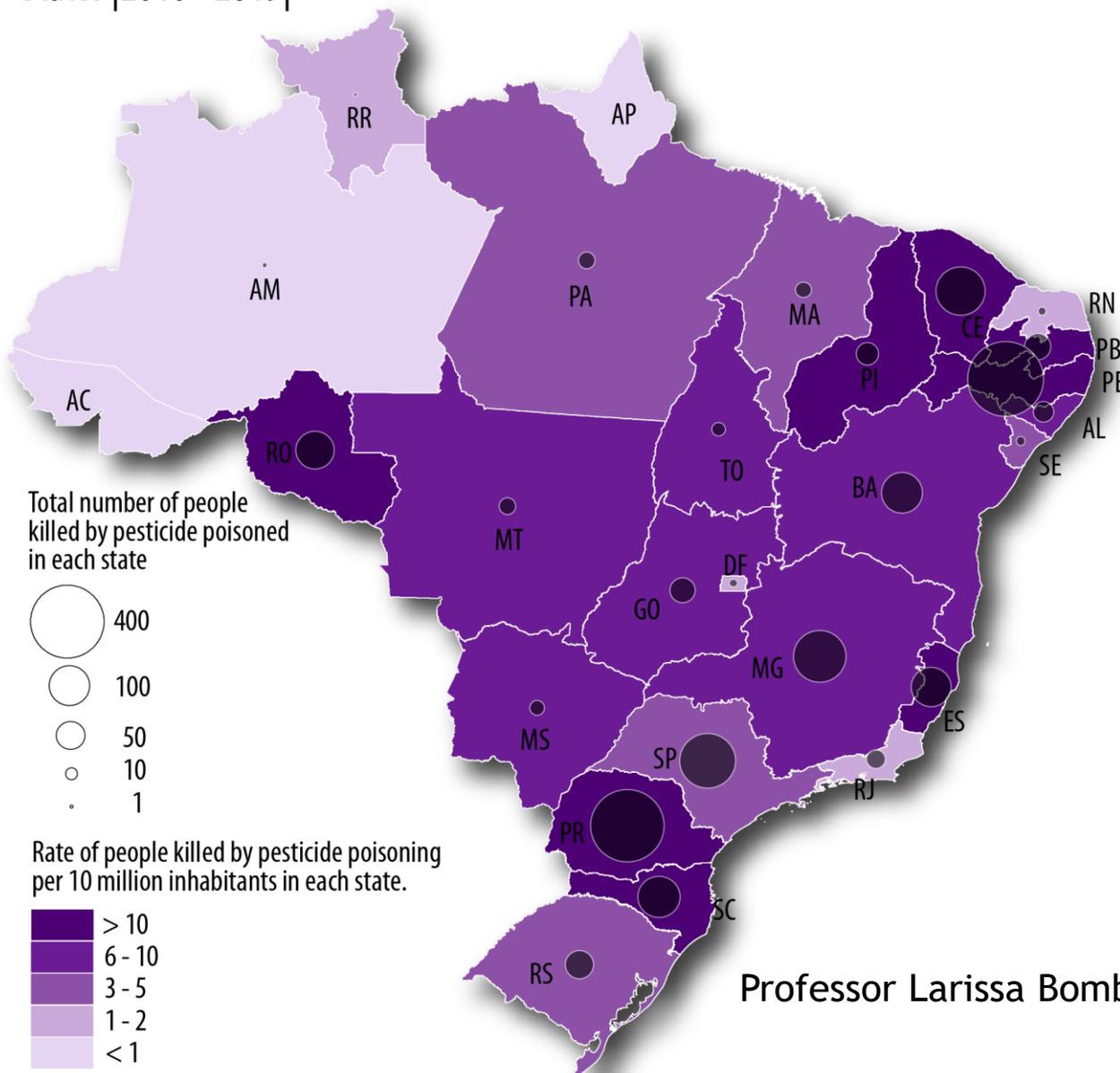


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Pulverização aérea em lavoura próximo à aldeia Xavante na Terra Indígena São Marcos, em General Carneiro/MT. Foto: Benjamin Ginoux

# BRAZIL - PEOPLE KILLED BY PESTICIDE POISONING

States |2010 - 2019|



Total of 1 832 people killed by pesticide poisoning in Brazil during the period.

Source: SINAN-DATASUS 2020|<https://datasus.saude.gov.br/> and IBGE, 2020;  
Organisation: Dr. Larissa Mies Bombardi; Elaboration: Eduardo Dutenkefer, Pablo L. M. Nepomuceno, Paulo R. A. de Moraes and Valdeir S. Cavalcante Gonçalves|Nov. 2020|

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**BOMBARDI, Larissa Mies.** *“Geography of Asymmetry: the vicious cycle of pesticides and colonialism in the commercial relationship between Mercosur and the European Union”*. *The Left*. Belgium, 2021. V1 52 pages + annex 140 pages. <https://left.eu/events/eu-mercotur-the-vicious-circle-of-pesticides/> (Atlas-Book)

**BOMBARDI, Larissa Mies.** *A Geography of Agrottoxins Use in Brazil and its Relations to the European Union*. 1st ed. São Paulo: – Laboratory of Agrarian Geography, FFLCH – USP. 2019. v. 1. 267p.  
<http://www.livrosabertos.sibi.usp.br/portaldelivrosUSP/catalog/book/352> (Atlas-book)