

BRAZILIAN BEE PRODUCTION AND PHYSICOCHEMICAL CHARACTERISTICS OF BEE POLLEN SAMPLES FROM 5 BRAZILIAN REGIONS

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Brasil



Taubaté

Minas Gerais

Belo Horizonte

Espírito Santo

Vitória

Rio de Janeiro

São Paulo



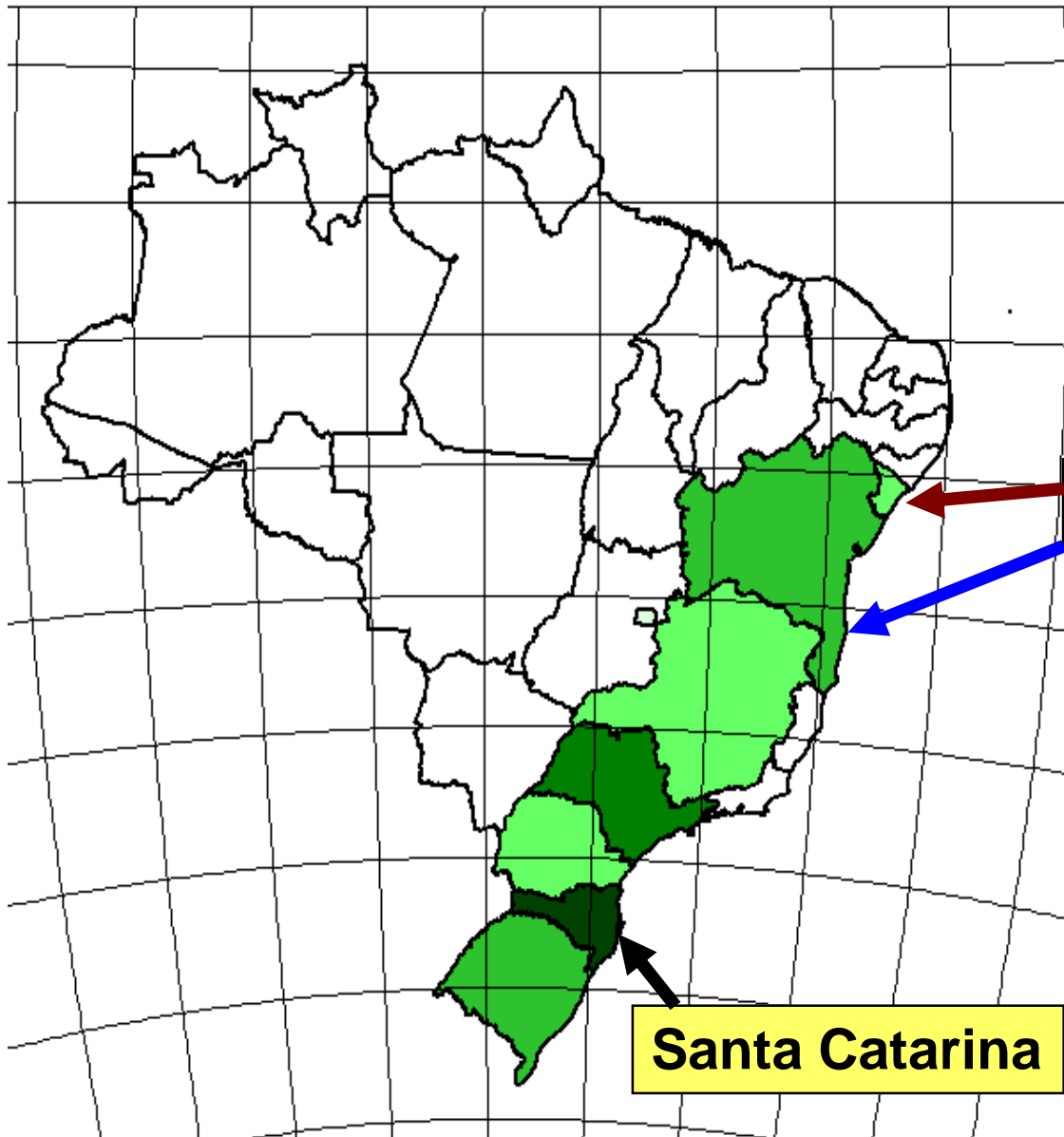
Rio de Janeiro

Taubaté

São Paulo

BRAZILIAN BEE POLLEN PRODUCTION

BRAZILIAN BEE POLLEN PRODUCTION



Bahia and Sergipe

Scenario/2004

BRAZILIAN BEE POLLEN PRODUCTION



small, medium and
large scale are
observed in 17
brazilian states

NORTHEAST
(SE,BA,PE,PB,RN)

SOUTHEAST
(SP,RJ,ES,MG)

SOUTH
(SC,RS,PR)

MIDWEST
(MT,MS,GO,DF)

NORTH
(PA)

MONOFLORAL BEE POLLEN RELEVANT PRODUCTION



Coconut Palm Bee Pollen

NORTHEAST

➤ **BAHIA**

➤ **SERGIPE**



MONOFLORAL BEE POLLEN EMERGING PRODUCTION



Mabea fistulifera
("Canudo de Pito")



SOUTHEAST
➤ MINAS GERAIS



BRAZILIAN BEE POLLEN

***ADVANCES IN
PROCESSING
TECHNOLOGY***

Bee Pollen Processing Technology Evolution...





INVESTMENTS *(Government Funds)* IN BEE POLLEN PROCESSING UNITS (Bahia and Sergipe)



AUGUST 2010

**RENAPOLEN (BRAZILIAN
NATIONAL BEE POLLEN
RESEARCH AND VALUE
CHAIN NETWORK)**

<http://renapolen.webnode.com.br/>



RENAPOLEN'S MISSION:

**PROMOTE INTEGRATION
BETWEEN RESEARCHERS,
TECHNICAL ASSISTANTS
AND BEE POLLEN
PRODUCERS**

**BRAZILIAN BEE
POLLEN**

***PHYSICOCHEMICAL
CHARACTERISTICS***

77 SAMPLES ANALYZED FROM ALL FIVE BRAZILIAN REGIONS

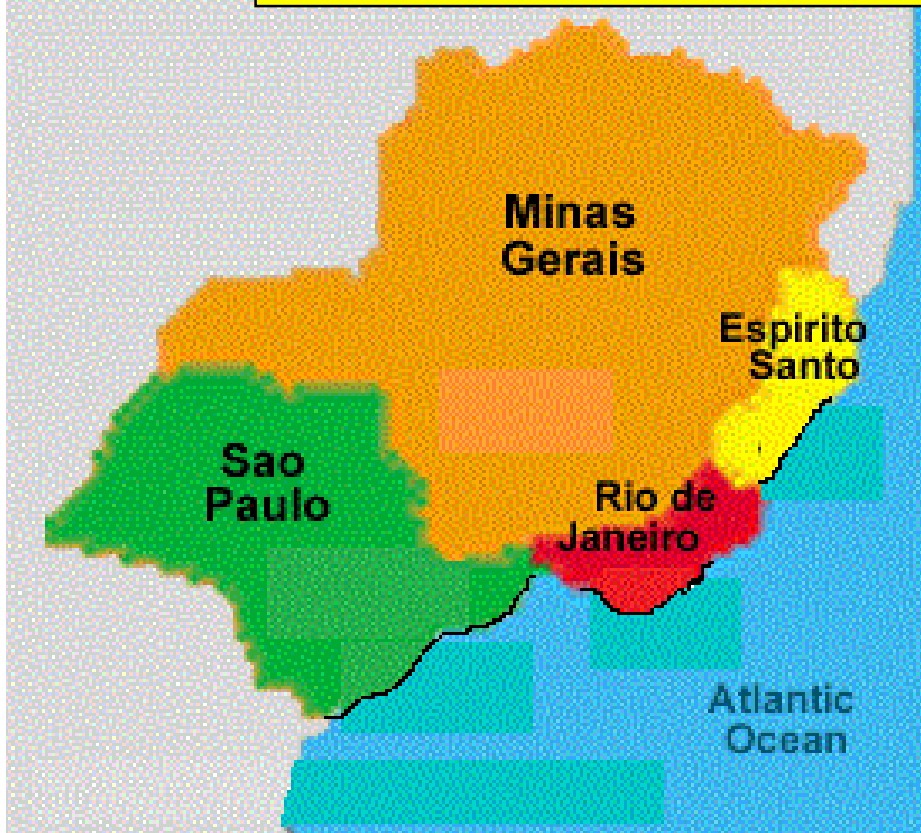


Some Results found...

- ☹ Humidity → 6,4%
- 😊 Ash → 2,9%
- 😊 Lipids → 4,5%
- 😊 Proteins → 19,9%
- 😊 Total Sugars → 29,6%

Brazilian Standards

- (max. 4,0%)
- (max. 4,0%)
- (min. 1,8%)
- (min. 8,0%)
- (14,0% to 55,0%)



SOUTHEAST



SOUTH

Some Results found... Brazilian Standards

☹ Humidity → 4,9%	(max. 4,0%)
☺ Ash → 3,1%	(max. 4,0%)
☺ Lipids → 4,3%	(min. 1,8%)
☺ Proteins → 13,7%	(min. 8,0%)
☺ Total Sugars → 29,7%	(14,0% to 55,0%)



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Some Results found... Brazilian Standards

☹ Humidity → 5,4%	(max. 4,0%)
☺ Ash → 3,4%	(max. 4,0%)
☺ Lipids → 8,1%	(min. 1,8%)
☺ Proteins → 30,1%	(min. 8,0%)
☺ Total Sugars → 30,1%	(14,0% to 55,0%)

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Some Results found... Brazilian Standards

☹️ Humidity → 8,1%	(max. 4,0%)
😊 Ash → 3,4%	(max. 4,0%)
😊 Lipids → 8,1%	(min. 1,8%)
😊 Proteins → 17,0 %	(min. 8,0%)
😊 Total Sugars → 31,4%	(14,0% to 55,0%)



MIDWEST

Some Results found... Brazilian Standards

☹ Humidity → 5,9%	(max. 4,0%)
😊 Ash → 2,9%	(max. 4,0%)
😊 Lipids → 7,0%	(min. 1,8%)
😊 Proteins → 37,1 %	(min. 8,0%)
😊 Total Sugars → 29,6%	(14,0% to 55,0%)

BRAZILIAN BEE POLLEN: CHALLENGES...

- **GOOD BEEKEEPING PRACTICES FOR BRAZILIAN BEE POLLEN PRODUCTION...**
- **TRAINING, TRAINING, TRAINING...**
- **IMPROVEMENT PROCESSING TECHNOLOGY RELATED TO HUMIDITY CONTROL**

OBRIGADO!

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