

# Field trial results: Boron in coffee crop



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# Trial overview:

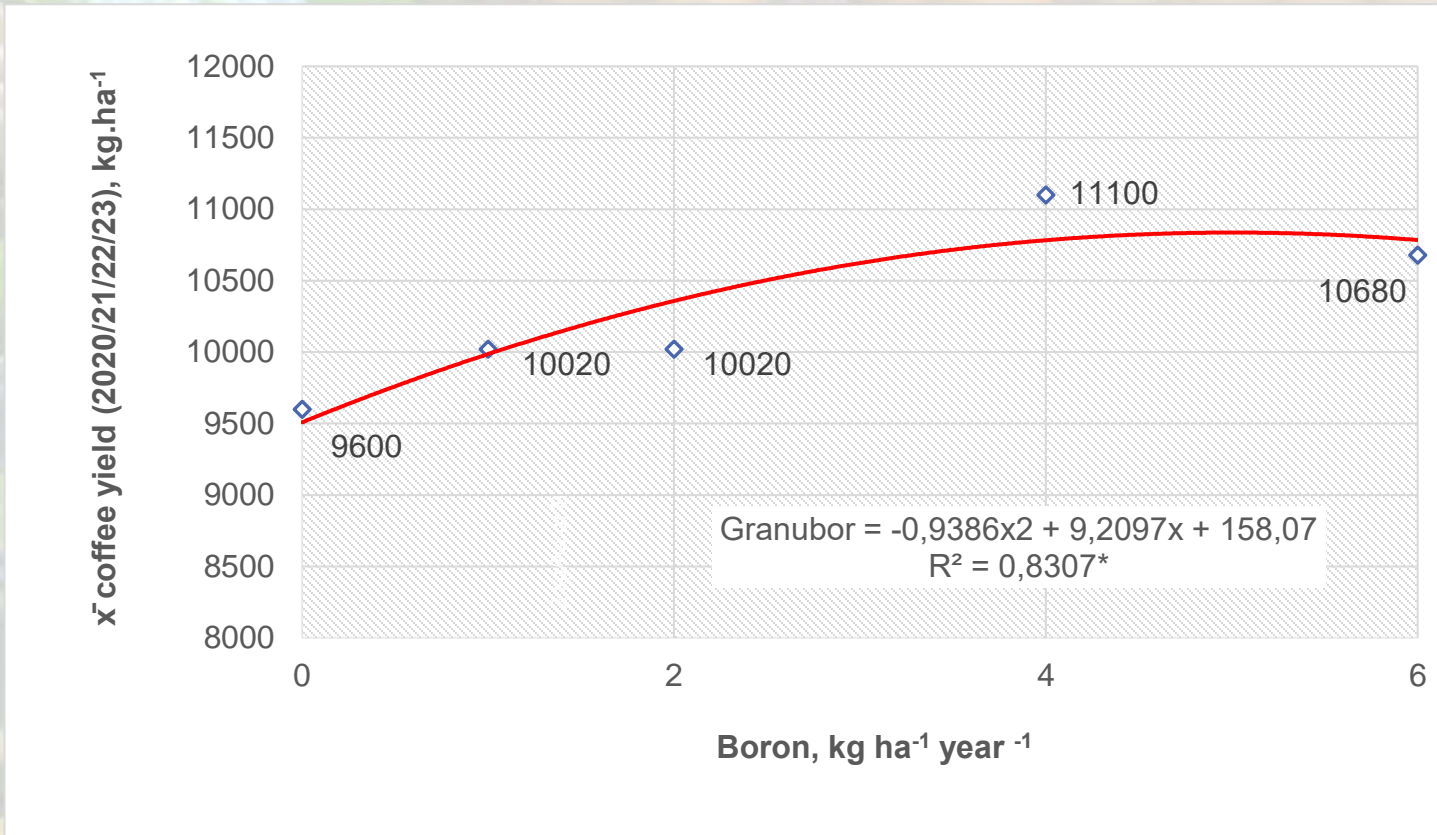
- Research institution: Institute Agronomic of Campinas
- Field trial duration: from 2020 to 2023
- Location: São Sebastião da Gramma, SP – Brazil
- Altitude: 1,180 meters
- Crop variety: Catuaí Amarelo (*Coffea arabica*)
- Soil: Dystrophic Red-Yellow Latosol/Oxisol
  - Soil pH ( $\text{CaCl}_2$ ): 5.5
  - Organic matter: 24.3 g/dm<sup>3</sup>
  - Fertilizer: *Granubor*<sup>®</sup>
  - Trial design: Randomized complete block with four repetitions
  - The treatments were installed in blocks randomized design with 4 replications, with each plot consisting of 3 rows of 12 trees, with the 8 central plants being evaluated.



# Response of coffee to the application of B in a clayey soil (Dystrophic Red-Yellow Latosol) Comparing control (0 kg/ha of B) vs. *Granubor* in São Paulo state, Brazil



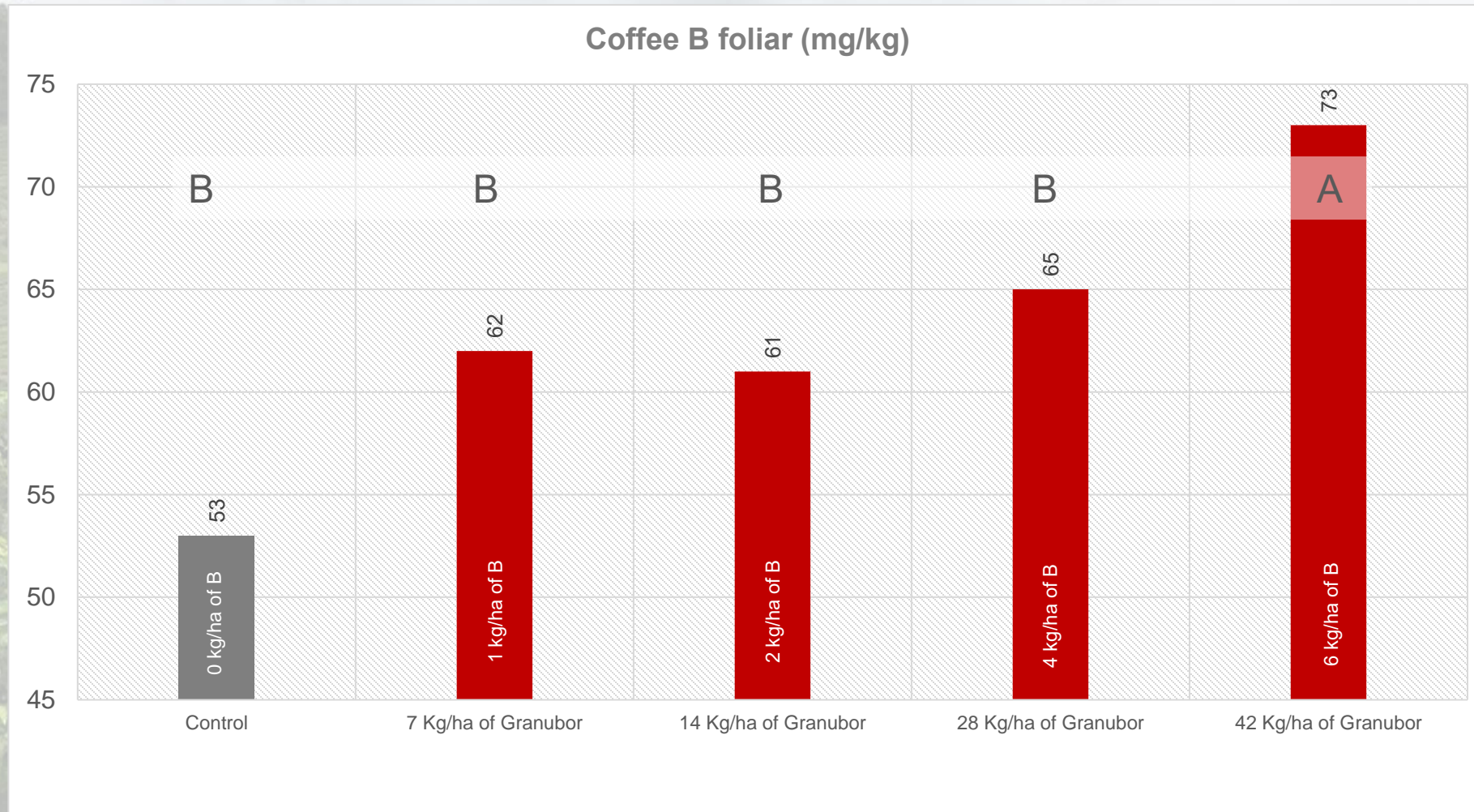
Coffee average yield (kg/ha); seasons 2020, 2021, 2022 and 2023



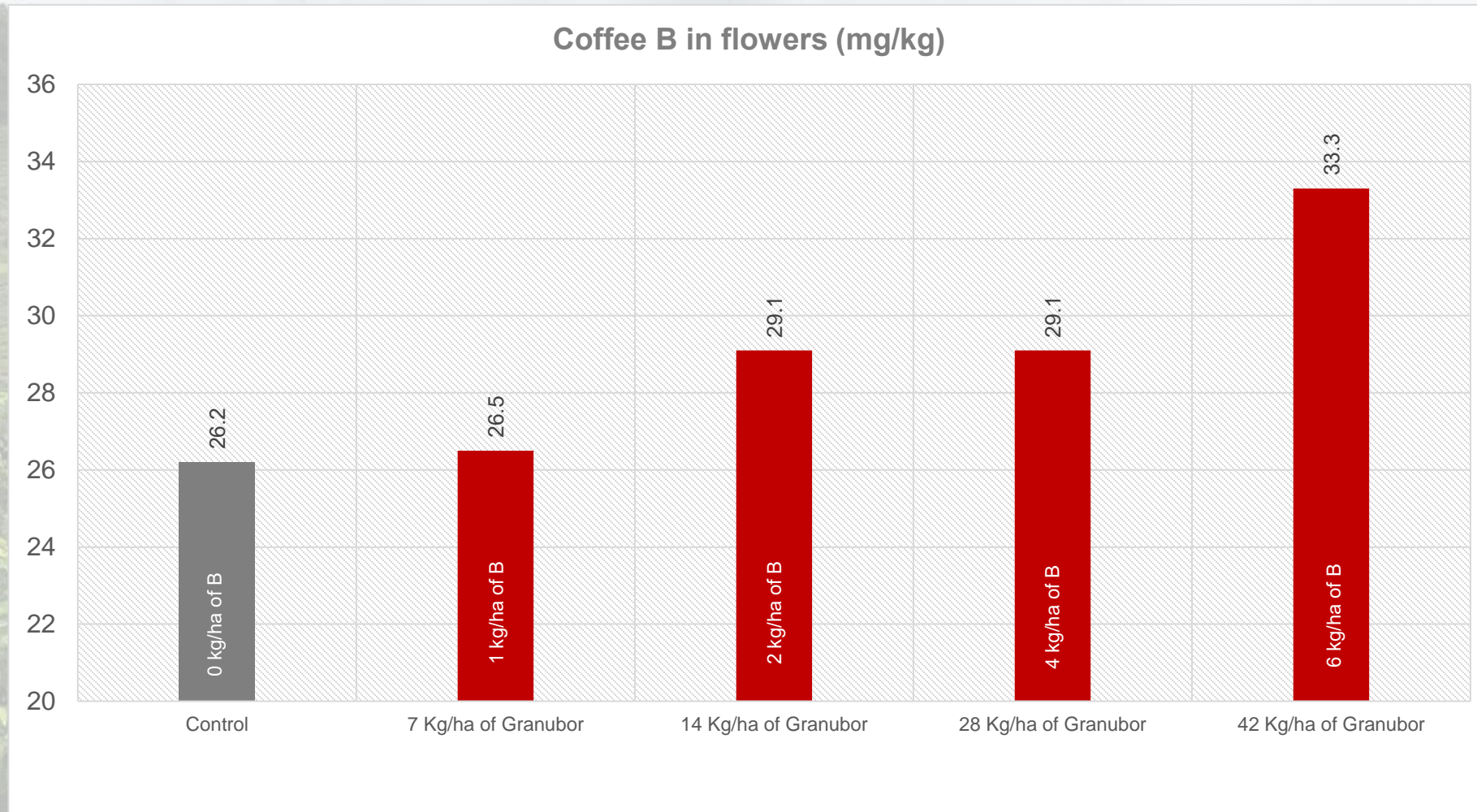
0 kg/ha of B = control  
1 kg/ha of B = 7 kg/ha of *Granubor*  
2 kg/ha of B = 14 kg/ha of *Granubor*  
4 kg/ha of B = 28 kg/ha of *Granubor*  
6 kg/ha of B = 42 kg/ha of *Granubor*

Source: R. Boaretto, 2023

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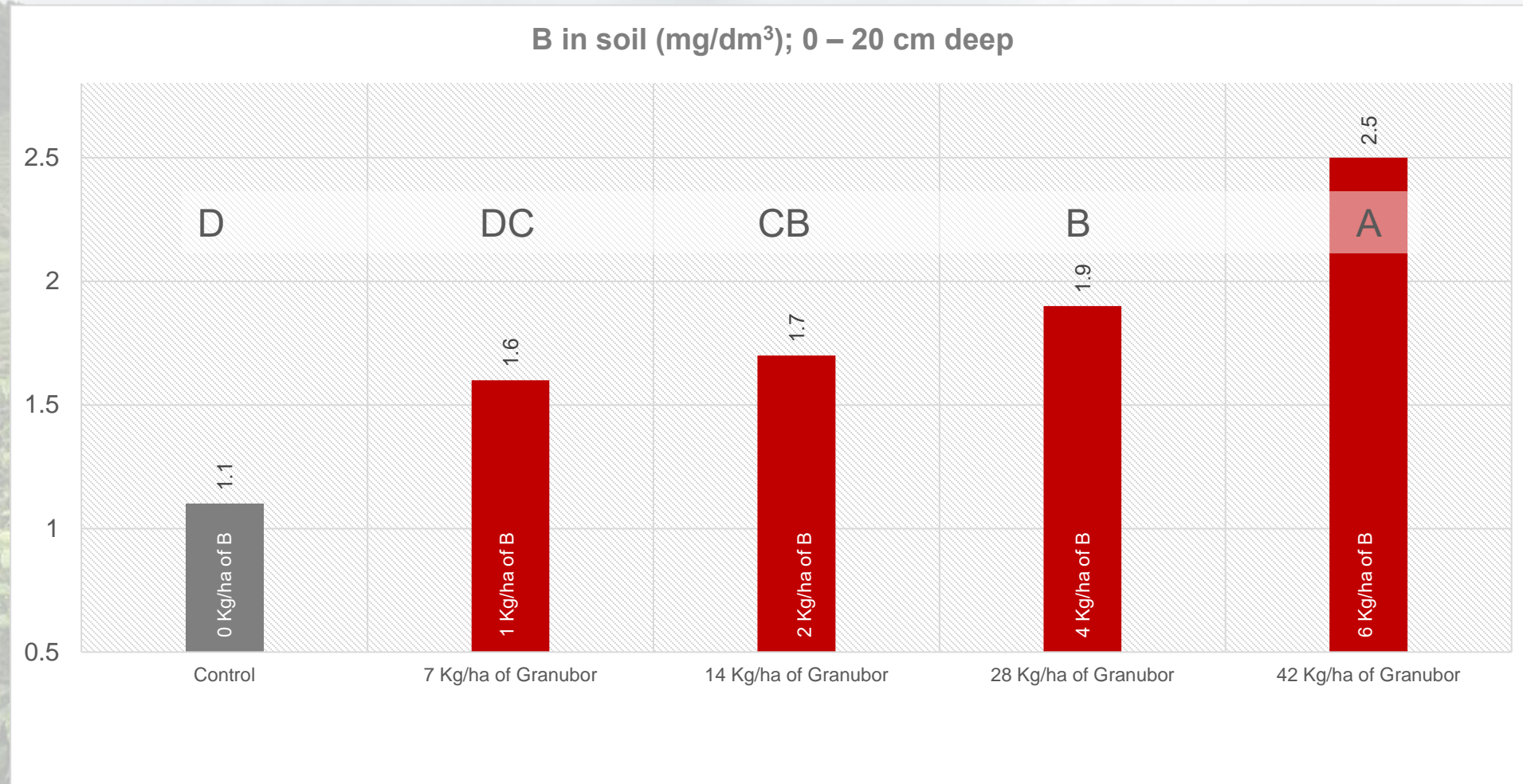


# Response of coffee to the application of B in a clayey soil (Dystrophic Red-Yellow Latosol) Comparing control vs. *Granubor* in São Paulo state, Brazil

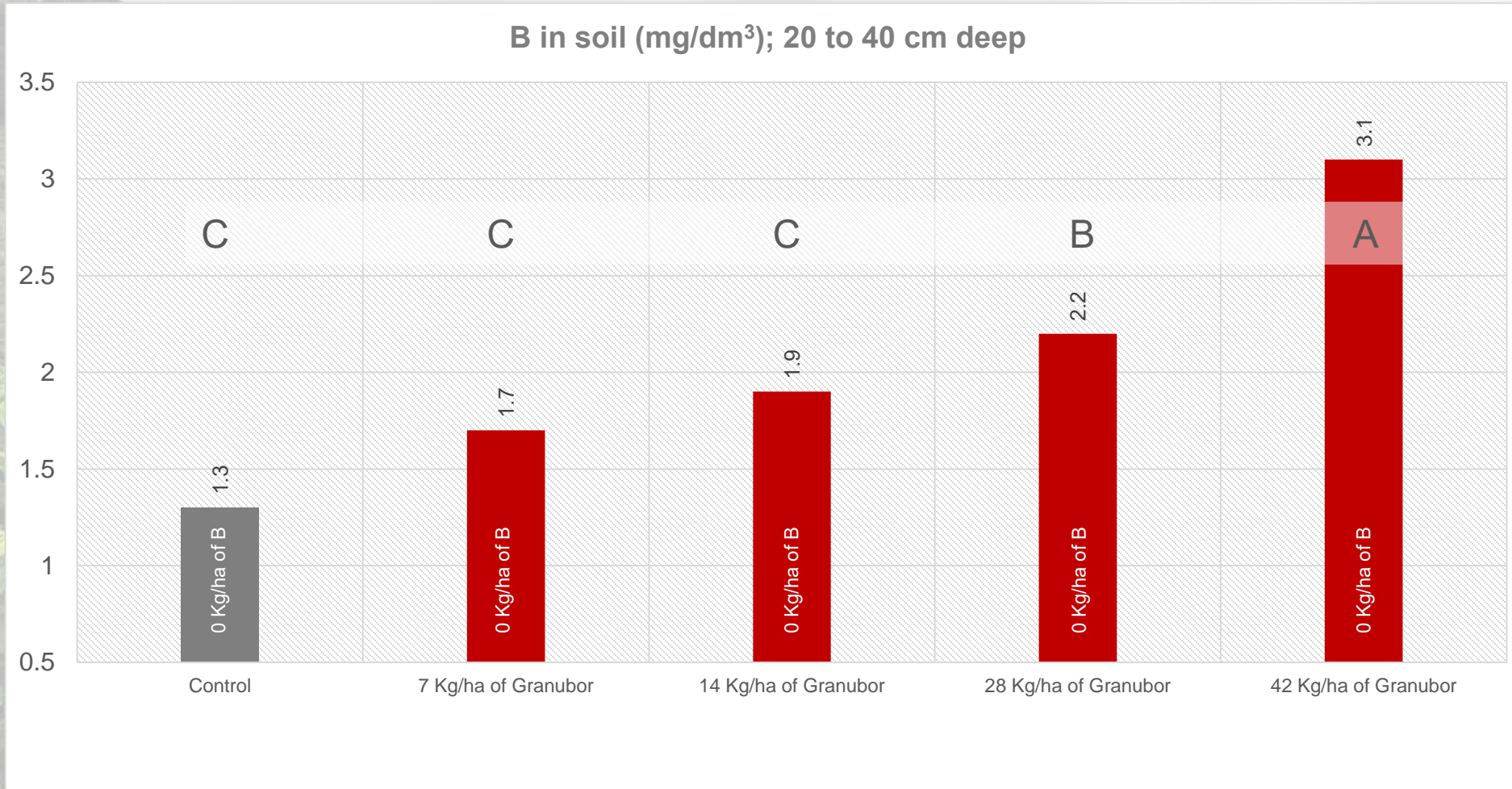




# Response of coffee to the application of B in a clayey soil (Dystrophic Red-Yellow Latosol) Comparing control vs. *Granubor* in São Paulo state, Brazil



# Response of coffee to the application of B in a clayey soil (Dystrophic Red-Yellow Latosol) Comparing control vs. *Granubor* in São Paulo state, Brazil





# Results

- Application of 4.0 kg/ha of B (28 kg/ha of *Granubor*<sup>®</sup>), provided a higher coffee yield, increasing 15.6% in comparison to the control treatment (increase of 1,500 kg/ha).