22/23 Harvest

Results

Effect of different doses of **SE Mag**, applied on the **soil surface**, on soil and corn plant parameters

São Jorge do Ivaí| PR
Partnership: Farmer's Consultoria

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Fertilizantes Especiais

Objective

Performance

To evaluate the effects of applying doses of **SE MAG** on soil profile development and corn productivity.

São Jorge do Ivaí | PR

Study parameters

Corn	Hybrid AG 9035
Application	Broadcast on the soil surface
Harvest	August 2023
Experimental plot	Plots of 43.2 m² per treatment

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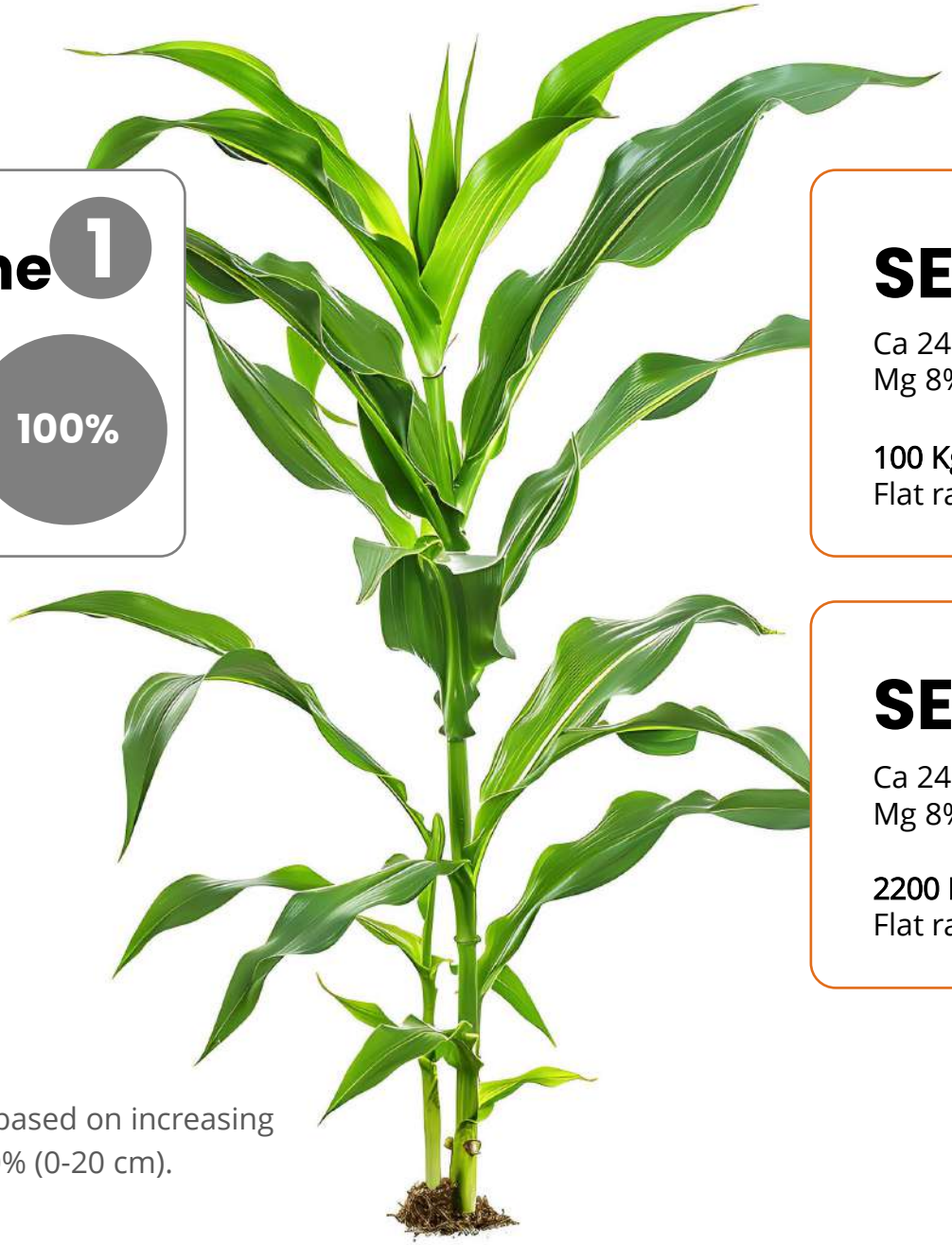
Limestone 1

CaO 30%
MgO 20%

3600 Kg ha^{-1}

100%



SE Mag 2

Ca 24% (CaO 33.7%)
Mg 8% (MgO 13.27%)

100 Kg ha^{-1}
Flat rate

30%

SE Mag 4

Ca 24% (CaO 33.57%)
Mg 8% (MgO 13.27%)

3600 Kg ha^{-1}
Flat rate

100%

SE Mag 3

Ca 24% (CaO 33.57%)
Mg 8% (MgO 13.27%)

2200 Kg ha^{-1}
Flat rate

60%

SE Mag 5

Ca 24% (CaO 33.57%)
Mg 8% (MgO 13.27%)

5400 Kg ha^{-1}
Flat rate

150%

*Dose determination based on increasing base saturation to 100% (0-20 cm).

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Methodology

Soil

Soil sampling was performed at different depths.

Plant

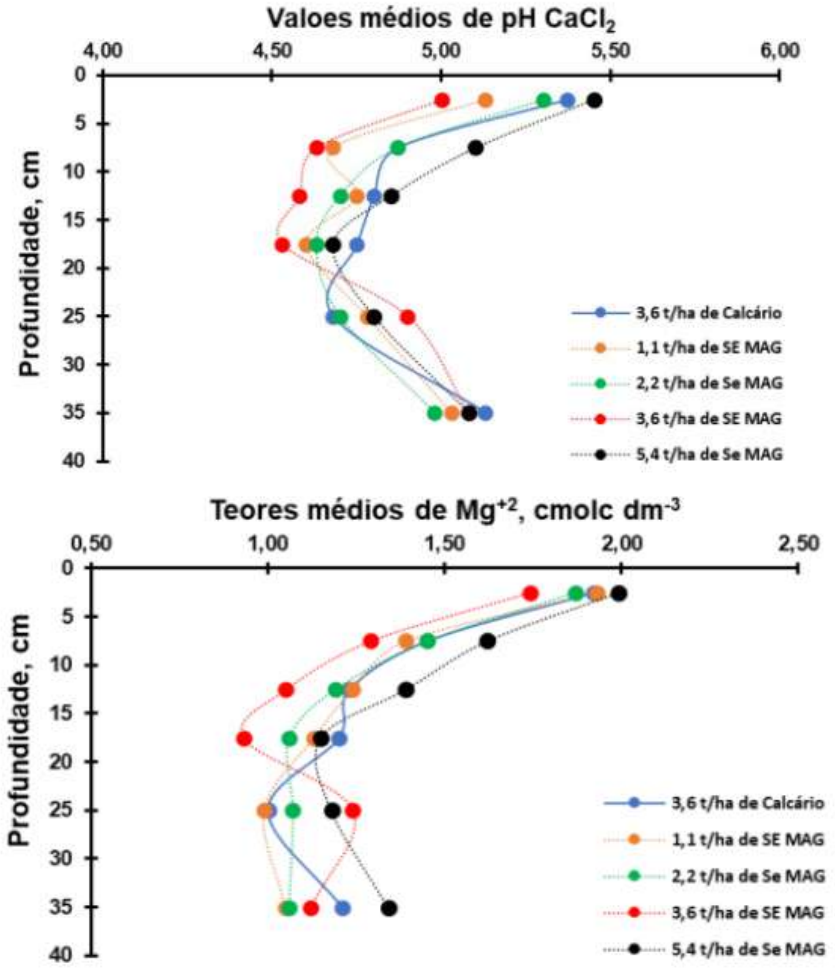
Corn plant height at the R1 stage: measurements were taken on 5 plants per plot, from the plant collar to the last leaf.

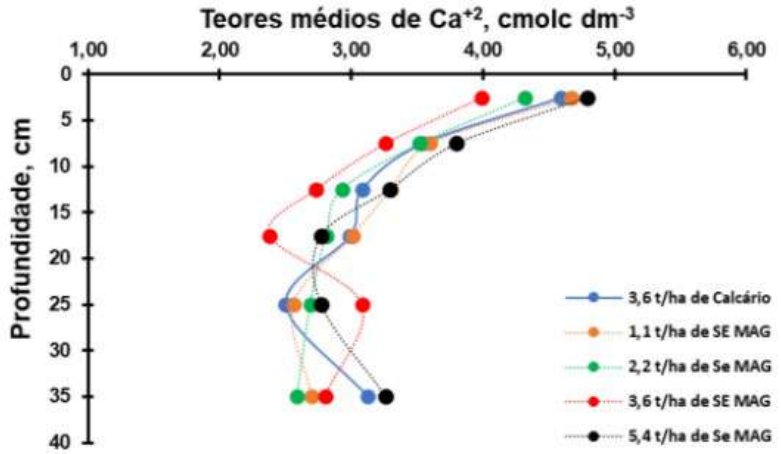
Thousand-grain weight and corn yield: Grains harvested from each plot (5.4 m^2) and corrected to a standard moisture content of 14% and converted to grain yield (Kg ha^{-1}).

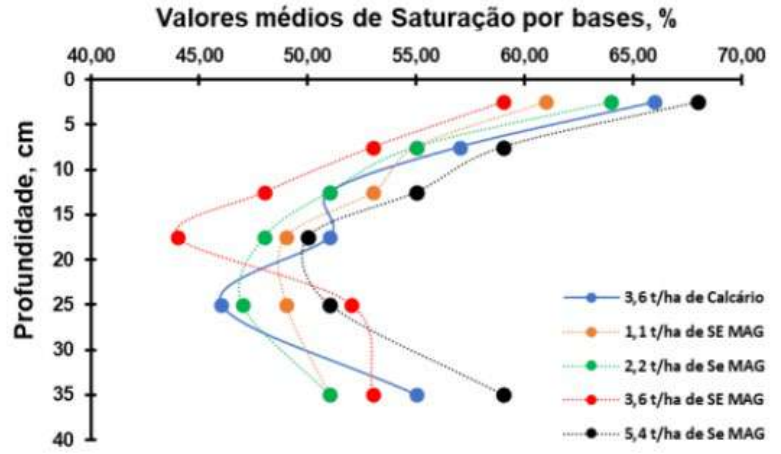
Results

Soil Performance

CHEMICAL PARAMETERS
At different depths.







Soil chemical analysis

Different depths

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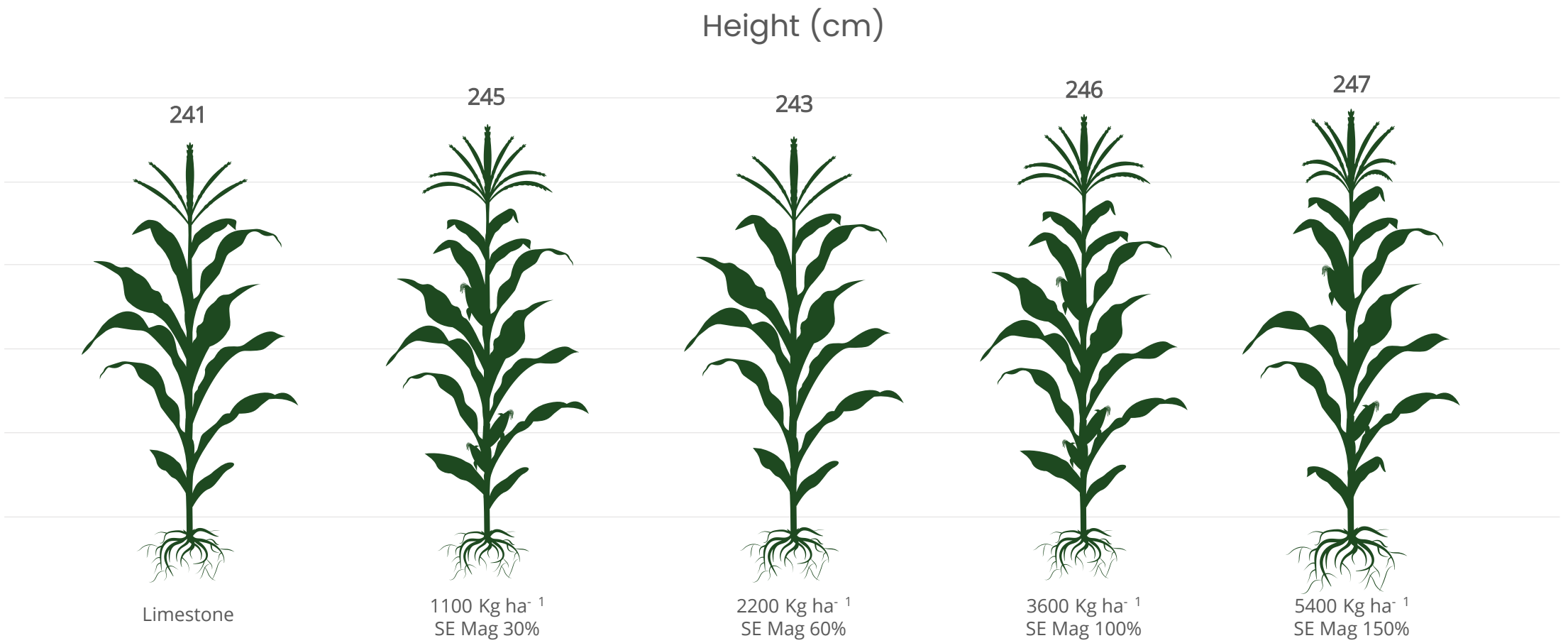
•Thousand-grain weight (TGW)
•Productivity

Results

Plant Performance

Plant height: R1 stage
Thousand-grain weight (TGW)
Productivity



Plant height

R1 stage

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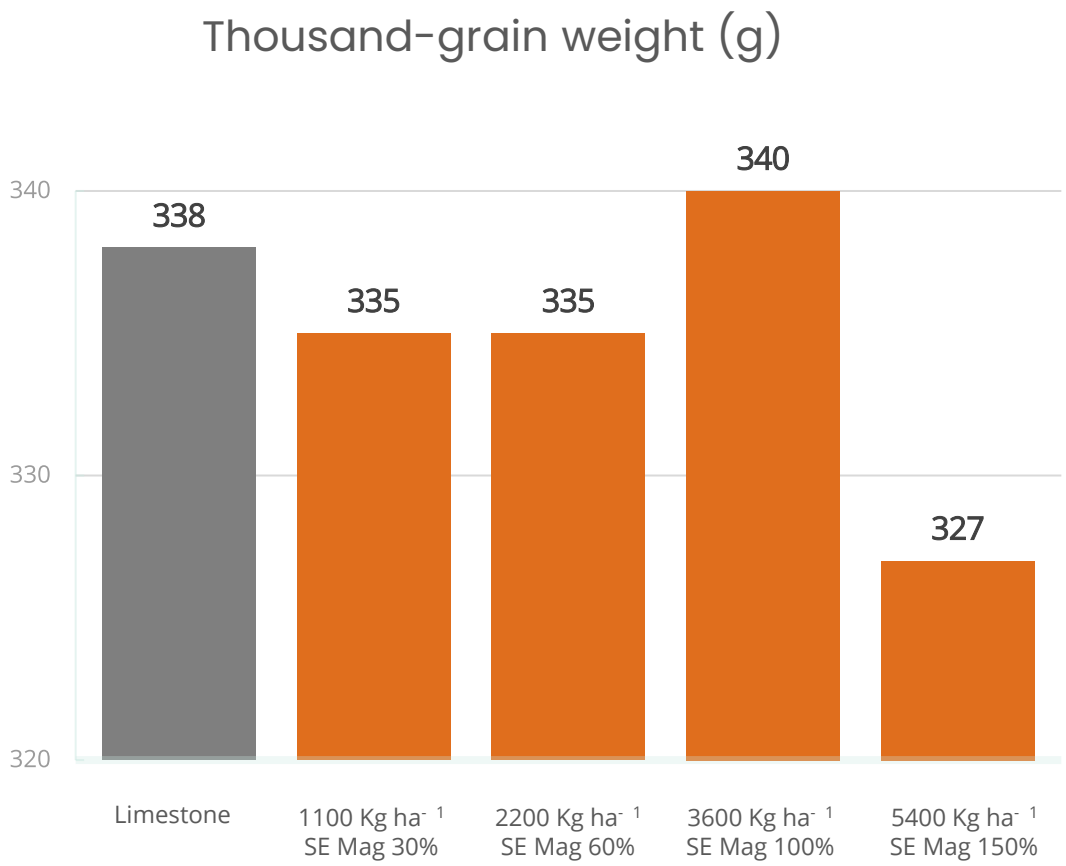

TGW

Thousand-grain weight

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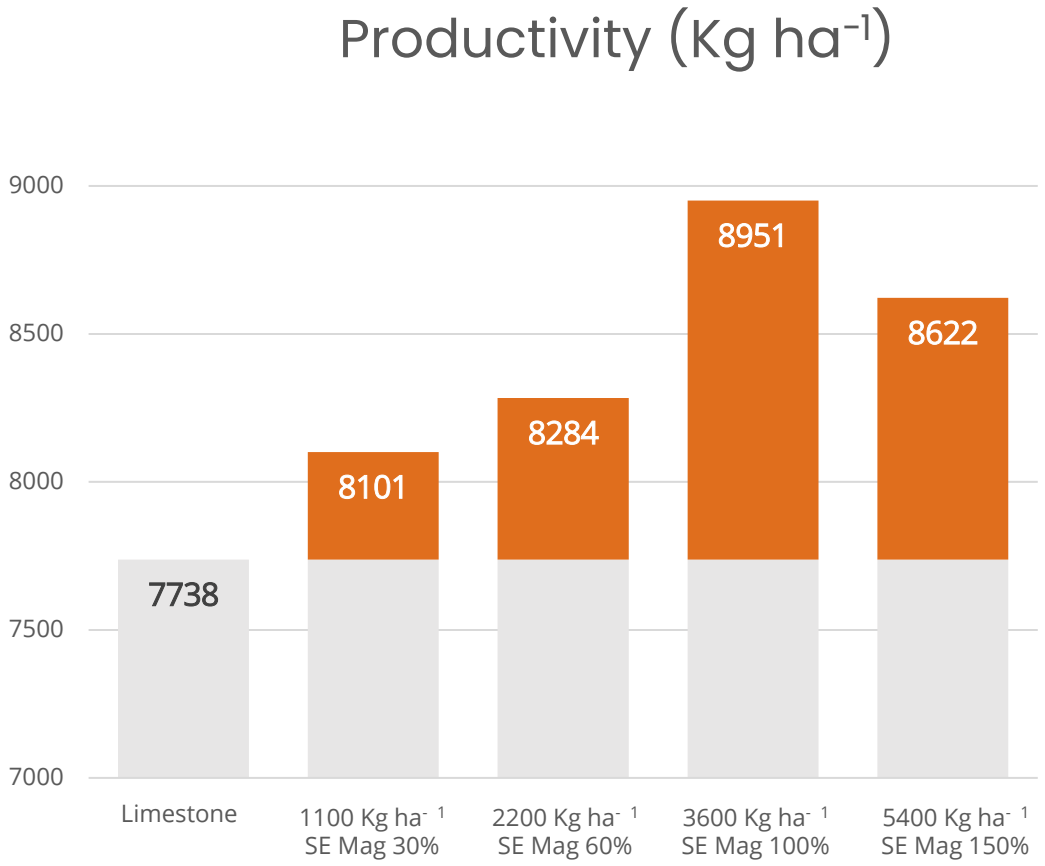

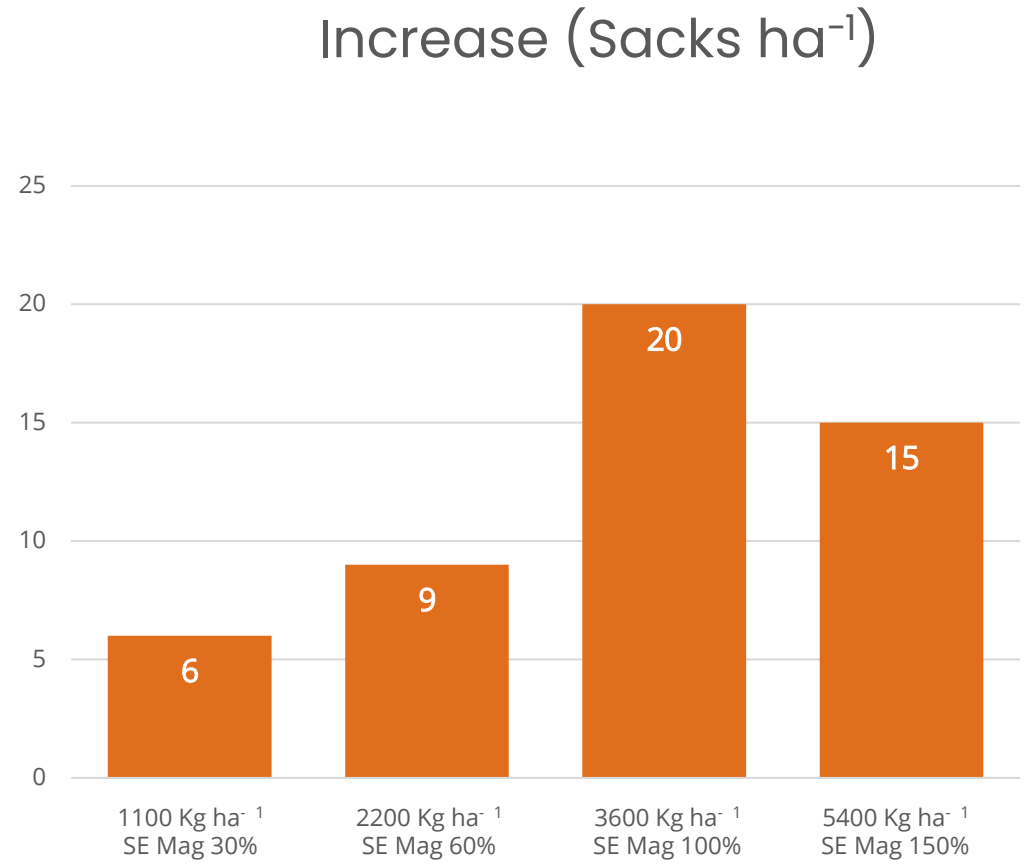

Area's productivity

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Conclusions

Productivity

Plant productivity was higher in all doses with the application of **SE Mag**, with an increase of **6, 9, 20, and 15 sacks ha^{-1} compared to limestone** (30%, 60%, 100%, and 150% of SE Mag).

Plant height

The application of different doses of **SE Mag** promoted increases in plant height compared to the application of limestone.

TGW

The 100% dose of **SE Mag** showed the highest TGW.

Soil chemistry

The main modifications promoted in soil chemistry were observed at the 150% dose of **SE Mag**, with increases in pH, Ca, Mg, and V% values (0-20 cm depth).

Our Company

Address
R. Victor Tosin, 563 | Colombo-PR

Telephone
(41) 3656-3244

E-mail
contato@pollifertilizantes.com.br

Website
www.pollifertilizantes.com.br

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@pollifertilizantes