Fla ONE®

DISTRIBUTION PARTNER
PINTO BEAN
[BRASIL]

Influence of Fla-ONE® seed-dressing on development of pinto beans

INTRODUCTION

Pinto beans [Phaseolus vulgaris] belong to the essential food products especially in Latin America (exemption Argentina and Chile) but also and especially in Mexico. Though the yield is higher than with soy and ranges around 4 t/ha under ideal conditions, Pinto Beans are facing many biotic and abiotic stress conditions. As with many seed, also Pinto Beans are facing a dangerous period from germination, root formation to first development of leafs. Many approaches have been made with different solutions of seed dressing to provide the seeds with all possible nutrients and even plant protection Properties.

MATERIAL & METHOD

Seed dressing is a commonly used and applied technique to supply nutrients and protective agents by sticking them on seed. In this test, Pinto Beans for one segment of a field (1 ha) had been dressed with a **Fla-ONE®** solution while the other part of the field was dressed with a fertilizing solution of a market leader in this segment. The observation was made during the development of the first 42 days and started 14 days after the seeding.

Figure: vegetation difference 40 days after seeding; right F**la-ONE®**; left Competition.

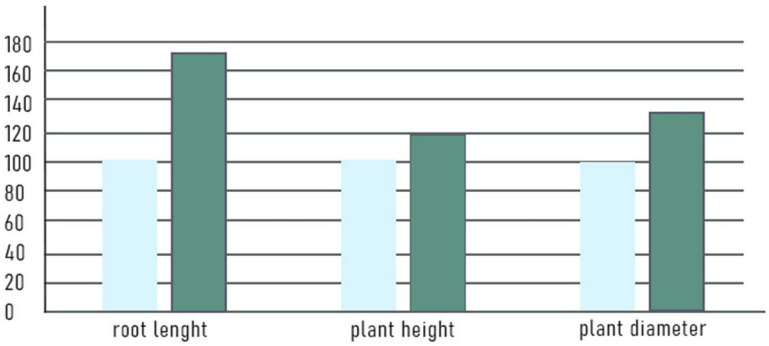

Diagram: significant percentual increase of root length, plant height and plant diameter after 1 seed treatment with F**la-ONE®**
blue: Competition; green: F**la-ONE®**

Figure: vegetation difference after 14 days; left **Fla-ONE®**, right Competition

RESULUTS

The results of the visual evaluation of the plants development clearly show significant differences between **Fla-ONE®** (without fertilizer) coated seeds and the seeds treated with the market leading seed fertilizer. **Fla-ONE®** treated seeds showed faster and more homogenous germination and growth. After 42 days the plants were measured and evaluated. The following results were found: length of roots **Fla-ONE® +71%**; Height of plants **Fla-ONE® +19%**; plants diameter **Fla-ONE® +33%**.

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