



Control test using stratification method

to show the benefits of using

BioDeposit® Agro and BioDeposit® Elixir

in crop seed germination



Introduction

In the spring of 2011 the company conducted three scientific tests to identify the effect of **BioDeposit® Agro** and **BioDeposit® Elixir** on germination and early success of wheat, rye and oats, using a process known as stratification.

The aim of the experiments was to prove if using both of **BioDeposit's** products **Elixir** and **Agro** had a substantial effect on the germination success of crop seeds percentages.

Method

Three crop species were tested: wheat, rye, and oats.

Test parameters: 100 seeds in each test container.

Each crop species was sown on 3 different substrates:

1. Soil, submerging crops seeds in water for up to 12 hours before planting and using common watering.
2. Soil + **BioDeposit® Agro** mixed in volume proportions 3:1, submerging crops seeds in the soluble **BioDeposit® Elixir** solution for up to 12 hours before planting and using common watering;
3. Soil + **BioDeposit® Agro** mixed in volume proportions 3:1, submerging crops seeds in the soluble **BioDeposit® Elixir** solution for up to 12 hours before planting and watering with **BioDeposit® Elixir** solution.

Conclusion

Findings:

- + **BioDeposit® Agro** and **BioDeposit® Elixir** has positive effect on crops germination
- + **BioDeposit® Agro** and **BioDeposit® Elixir** has considerable beneficial influence on early development
- + Compared with the control (without treatment with **BioDeposit® Agro** and **BioDeposit® Elixir**) energy of germination of grain (Table 1):
 - + wheat increased by 5-9% (SAMPLE 1)
 - + rye increased by 52%-58% (SAMPLE 2)
 - + oats increased by 7%-19% (SAMPLE 3)

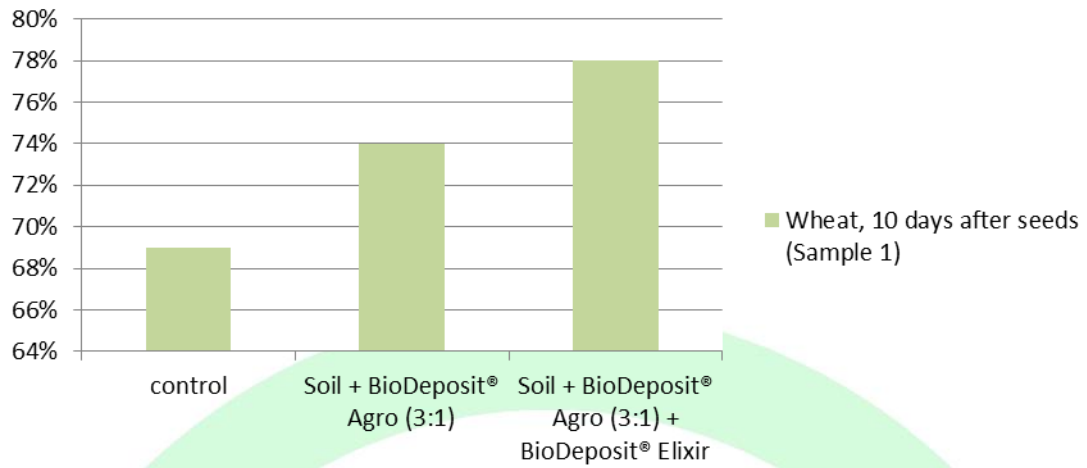
Table 1

Germination	control	Soil + BioDeposit® Agro (3:1)	Soil + BioDeposit® Agro (3:1) + BioDeposit® Elixir
Wheat, 10 days after seeds (Sample 1)	69%	74%	78%
Rye, 10 days after seeds (Sample 2)	14%	66%	72%
Oats, 10 days after seeds (Sample 3)	5%	12%	24%

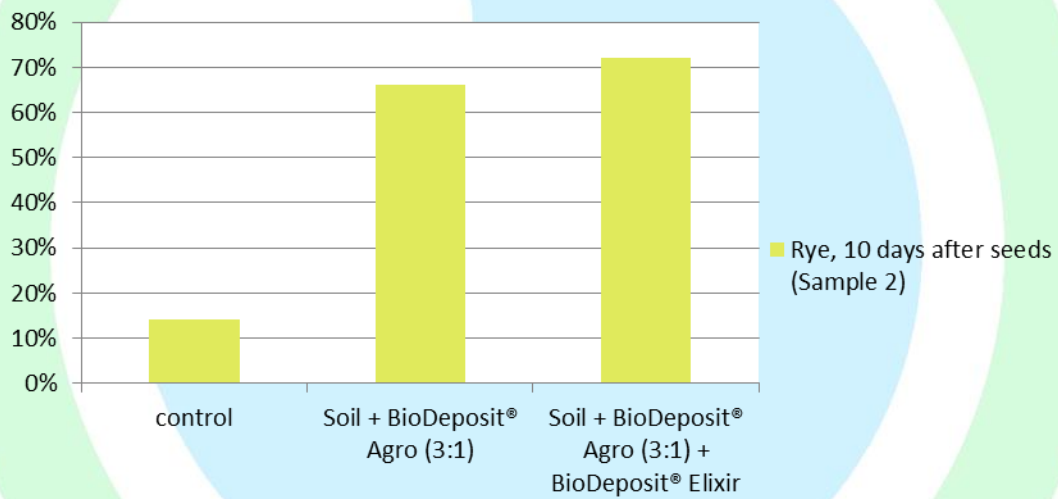
General conclusion

In conclusion it is shown by these experiments that the use of **BioDeposit® Agro** in the soil substrate and **BioDeposit® Elixir** as a irrigation solution has beneficial impact in the percentage of seeds that have successful germination and size of the stems over the period of the test.

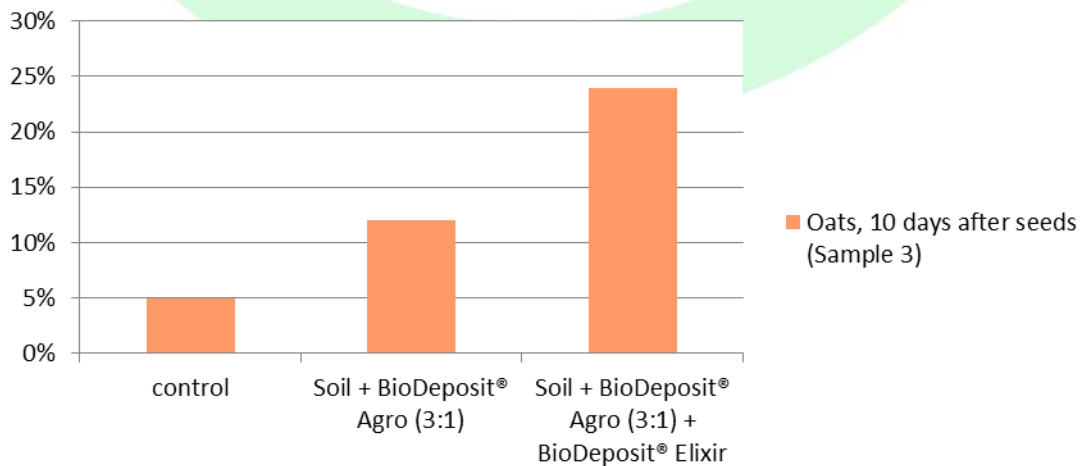
Wheat, 10 days after seeds



Rye, 10 days after seeds



Oats, 10 days after seeds





<p>Control</p>	<p>Soil + BioDeposit® Agro (3:1)</p>	<p>Soil + BioDeposit® Agro + BioDeposit® Elixir (3:1)</p>
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SAMPLE 1: Wheat, 10 days after seeds



<p>Control</p>	<p>Soil + BioDeposit® Agro (3:1)</p>	<p>Soil + BioDeposit® Agro + BioDeposit® Elixir (3:1)</p>
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SAMPLE 2: Rye, 10 days after seeds



<p>Control</p>	<p>Soil + BioDeposit® Agro (3:1)</p>	<p>Soil + BioDeposit® Agro + BioDeposit® Elixir (3:1)</p>
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SAMPLE 3: Oats, 10 days after seed