

- Bakterpreparaadid ja nende kasutamine tava- ja mahepõllumajanduses.



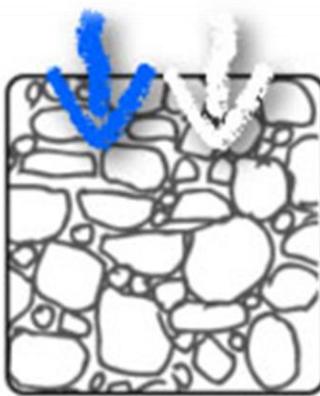
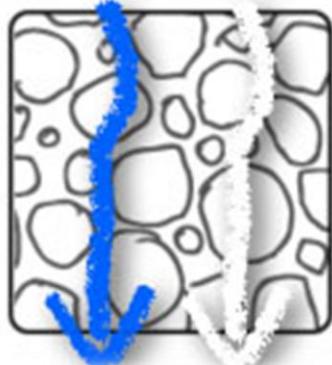
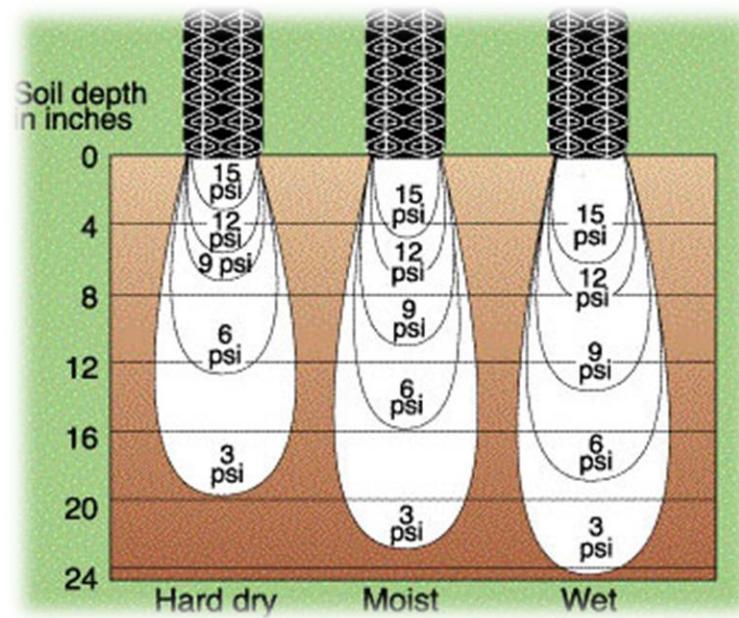
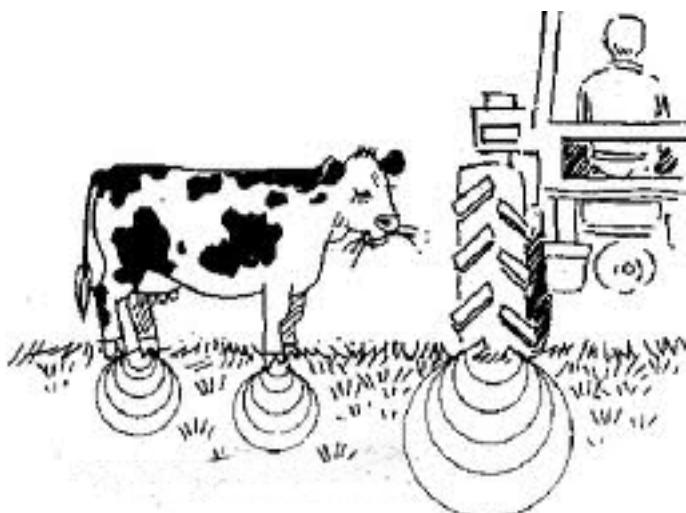




































BaltChem OÜ

Me ei kasvata taimi.

Me kasvatame mulda ja mullas
kasvavad taimed.



Let's Grow Together !



Martynas Dagys

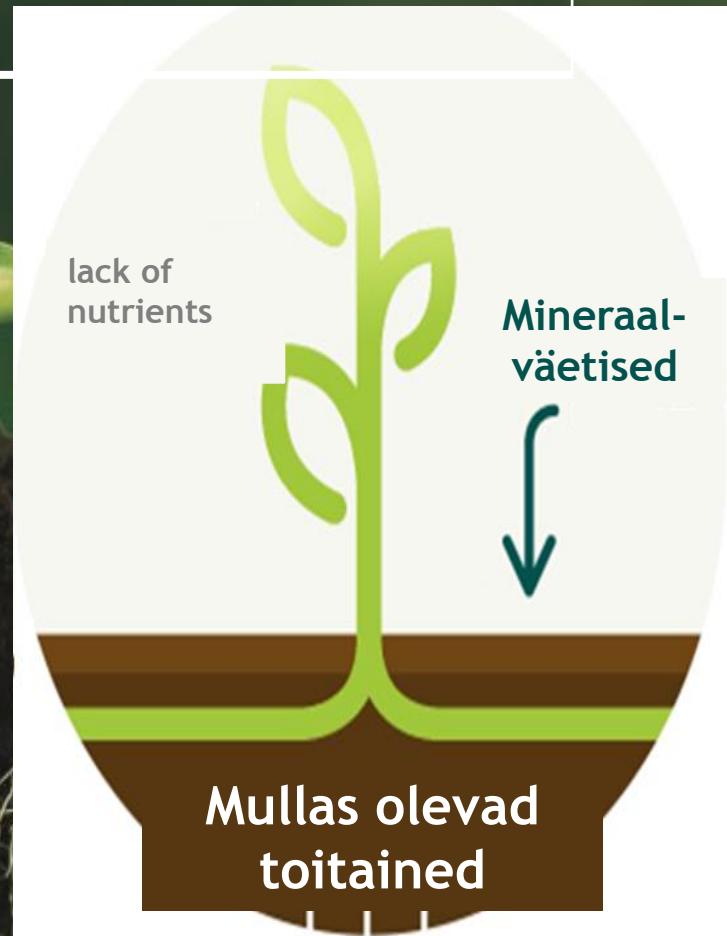
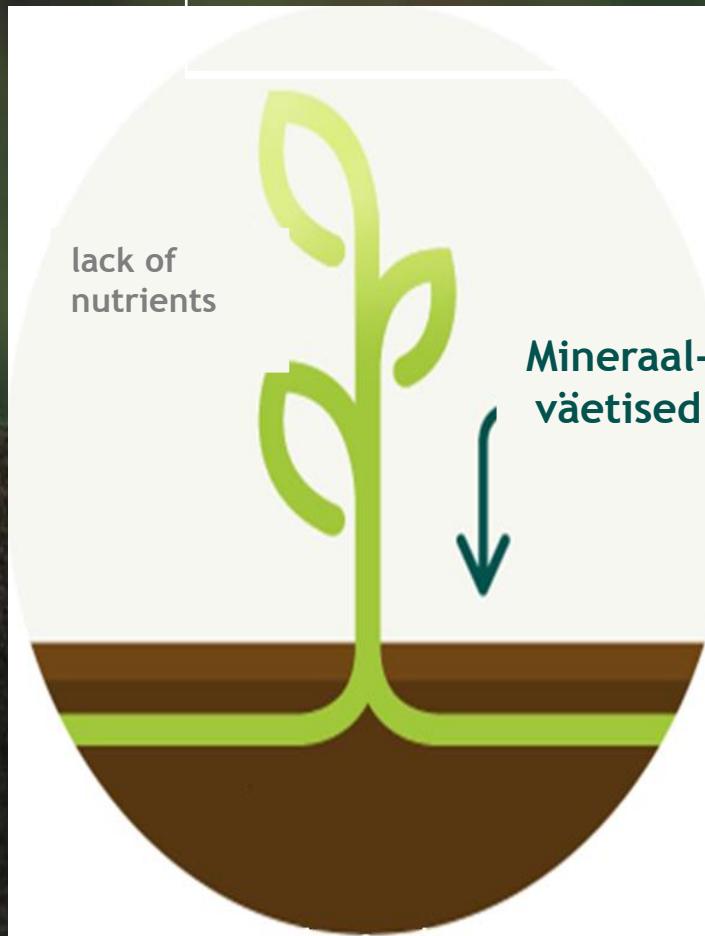
HIGH QUALITY PRODUCTS

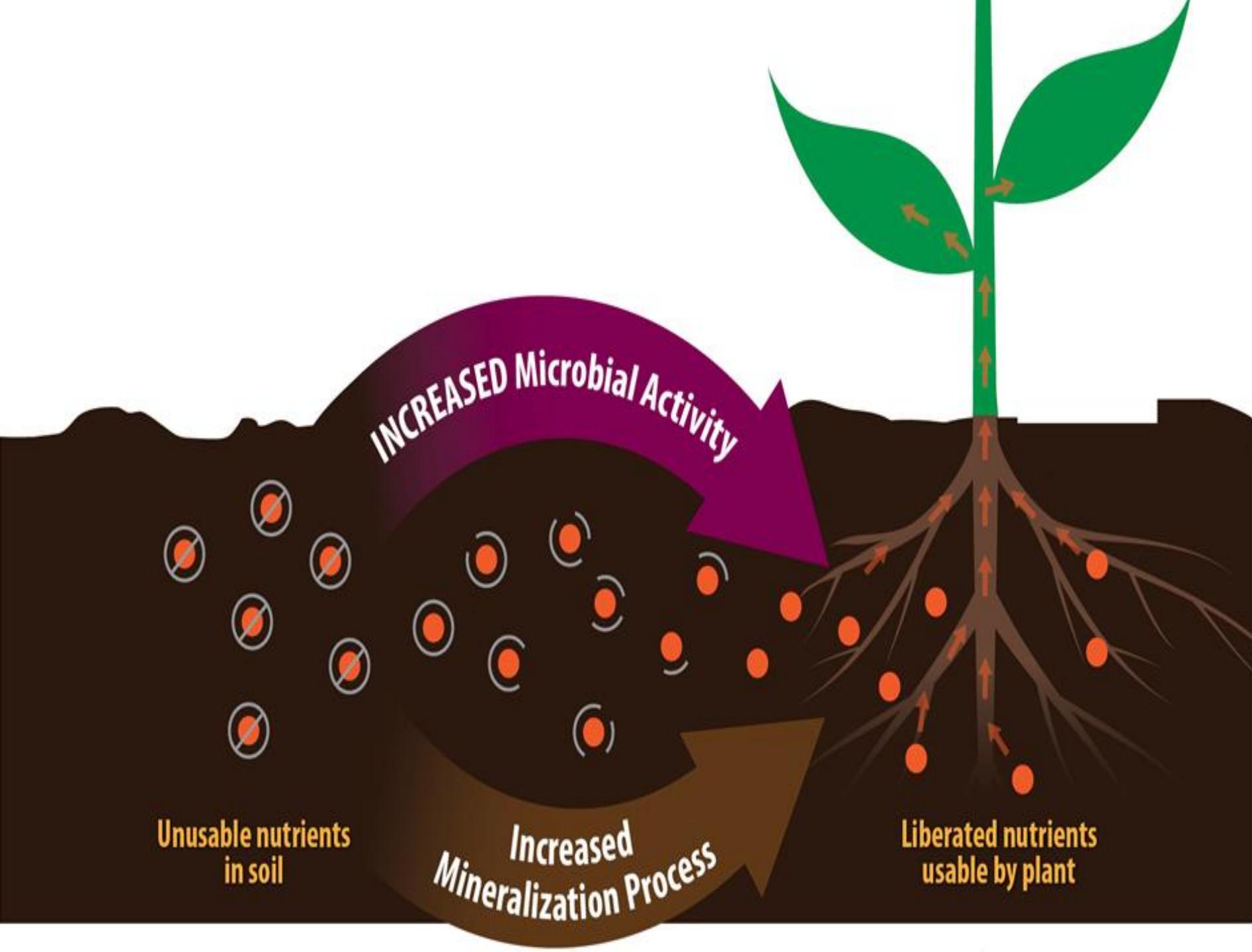


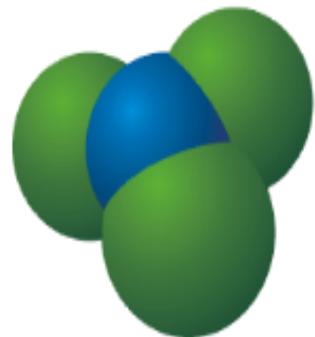
Kaks lähenemist taime toitumisele

Toitainete vajaduse
katmine
mineraalvääetistega

Taimede toitumine
mineraalvääetistest ja
mullas olevate toitainete
arvelt





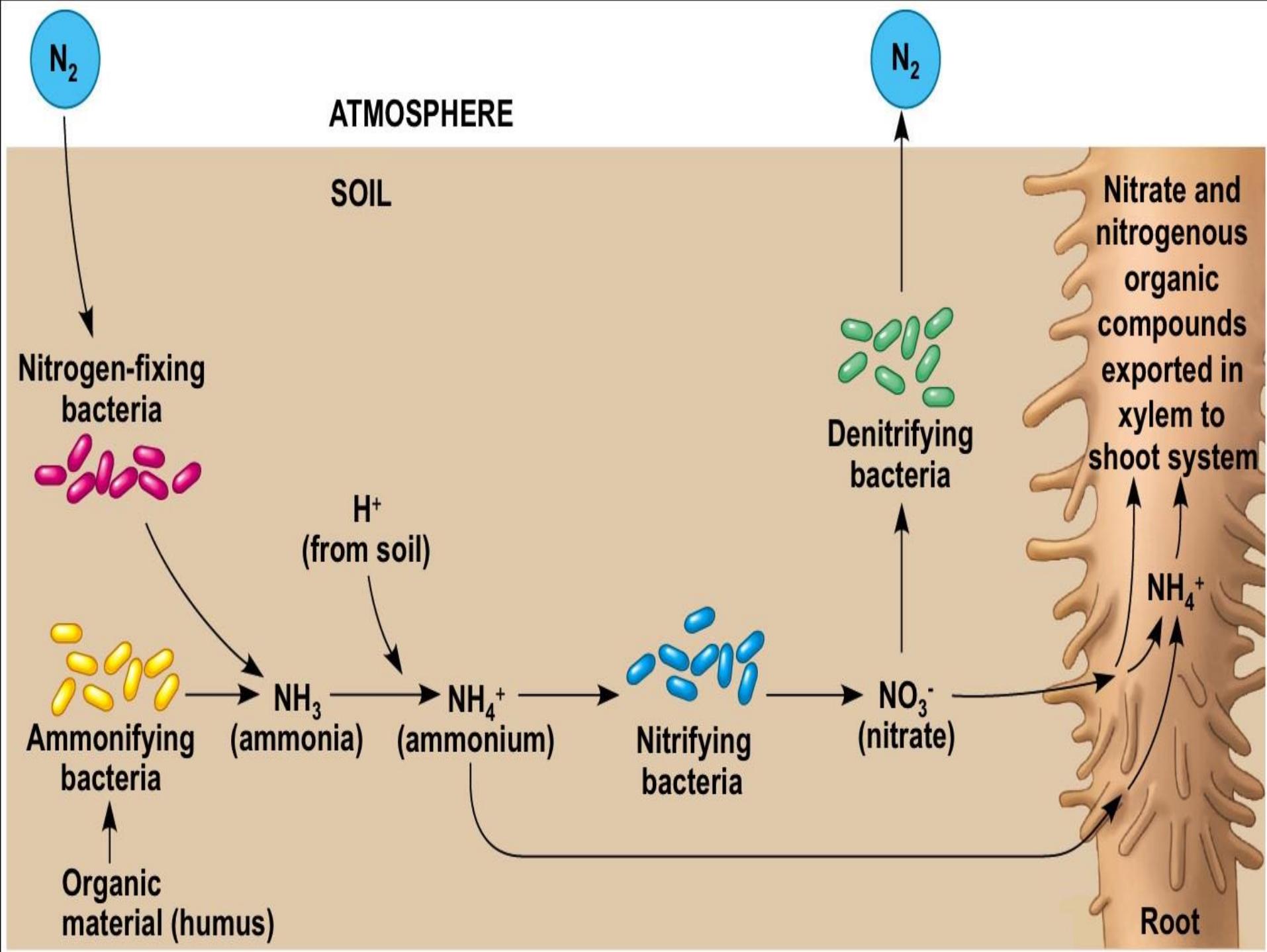


AZOFIX

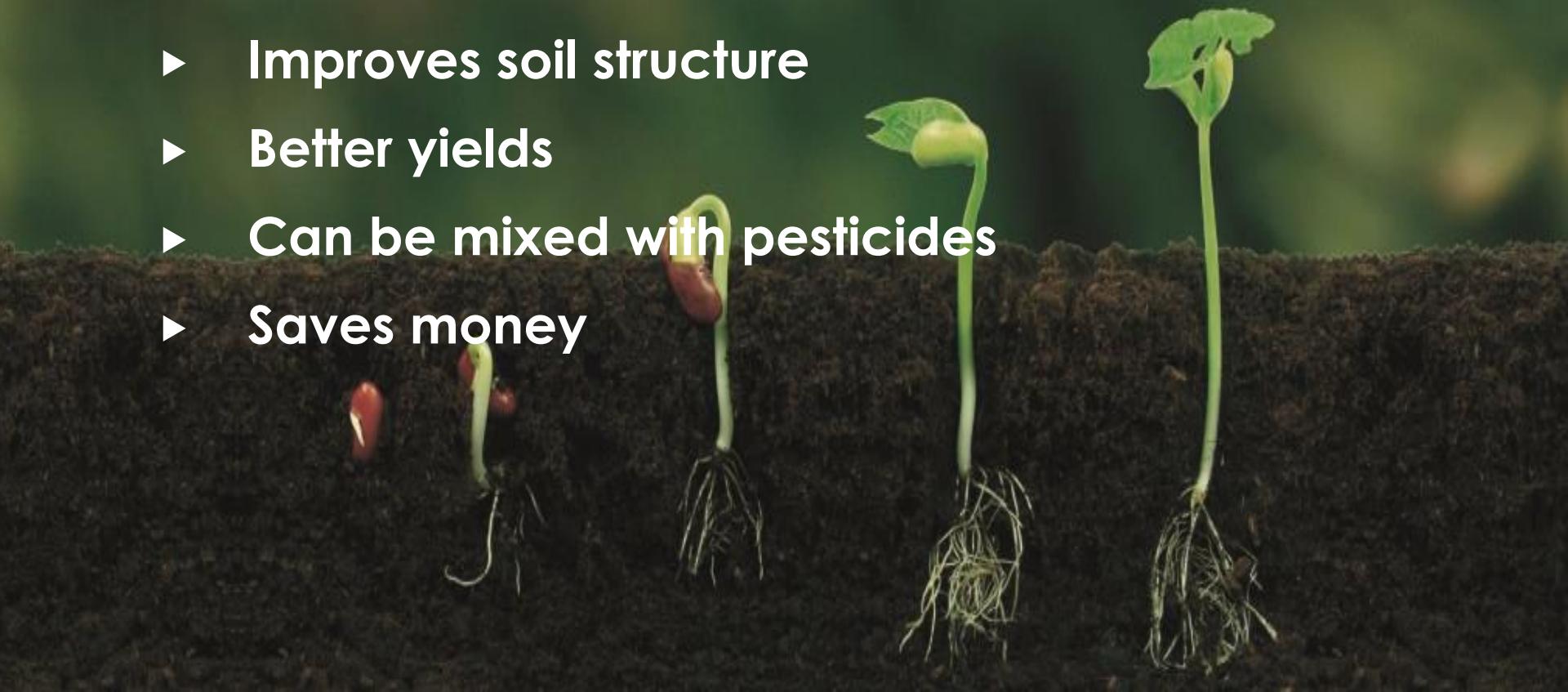
Accumulate nitrogen

AZOFIX – bacterial product containing bacteria *Azotobacter spp.* which increasing biological nitrogen in the soil.





- ▶ Up to 100 kg of biological nitrogen more in 1 hectare over the growing season
- ▶ Improves soil structure
- ▶ Better yields
- ▶ Can be mixed with pesticides
- ▶ Saves money



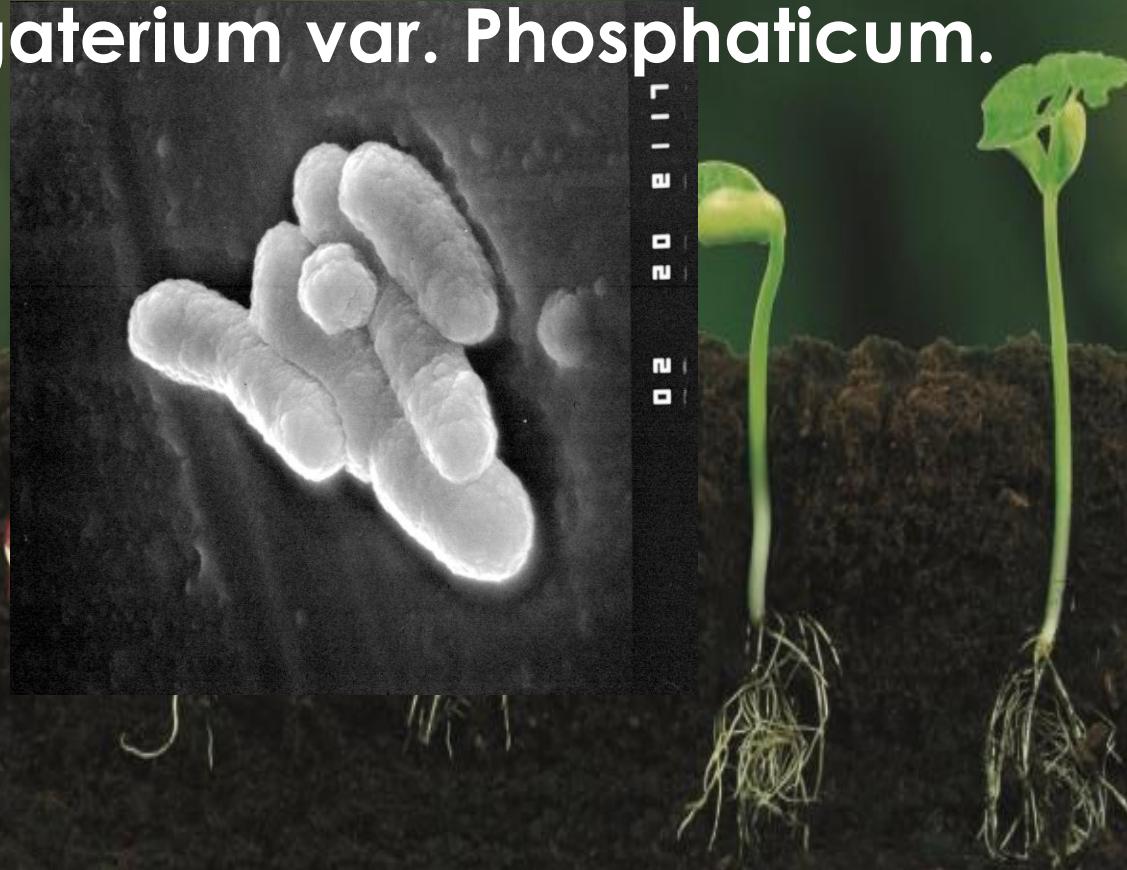
FOSFIX®

For optimal phosphorus uptake



Fosfix – biological preparation increases phosphorus availability to the plants in your soil.

Product contains of bacteria *Bacillus megaterium* var. *Phosphaticum*.





ACIDIC



ALKALINE

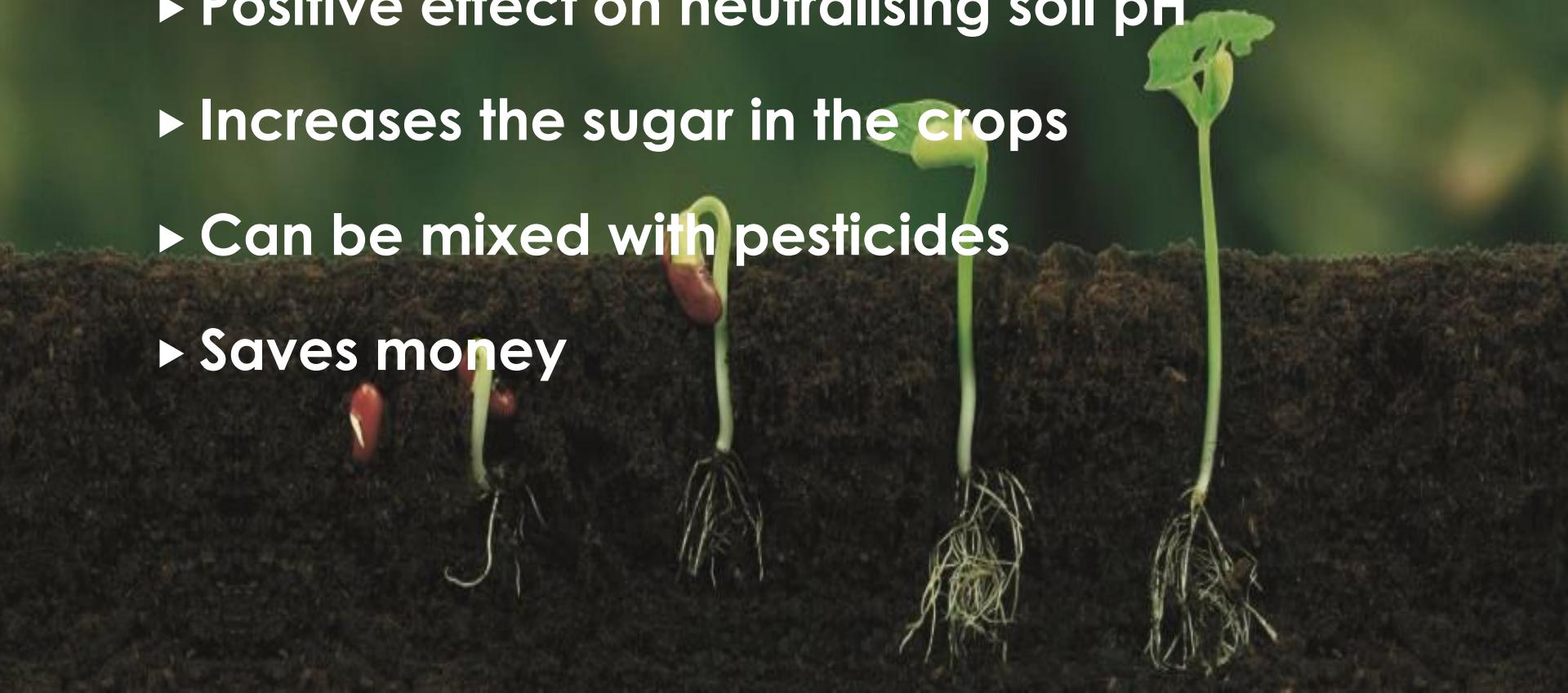


ACIDIC
SOIL

FOSFIX®

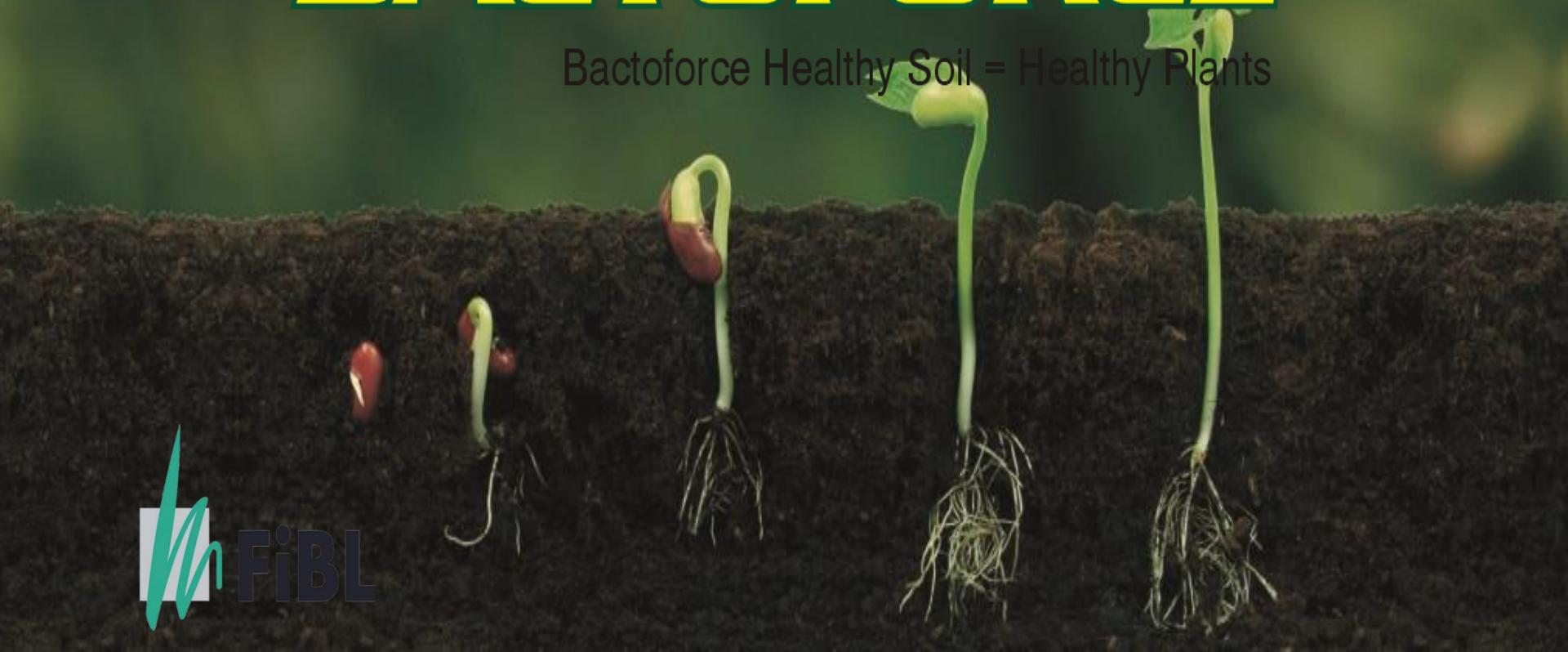
For optimal phosphorus uptake

- ▶ Increases phosphorus availability to plants
- ▶ Positive effect on neutralising soil pH
- ▶ Increases the sugar in the crops
- ▶ Can be mixed with pesticides
- ▶ Saves money



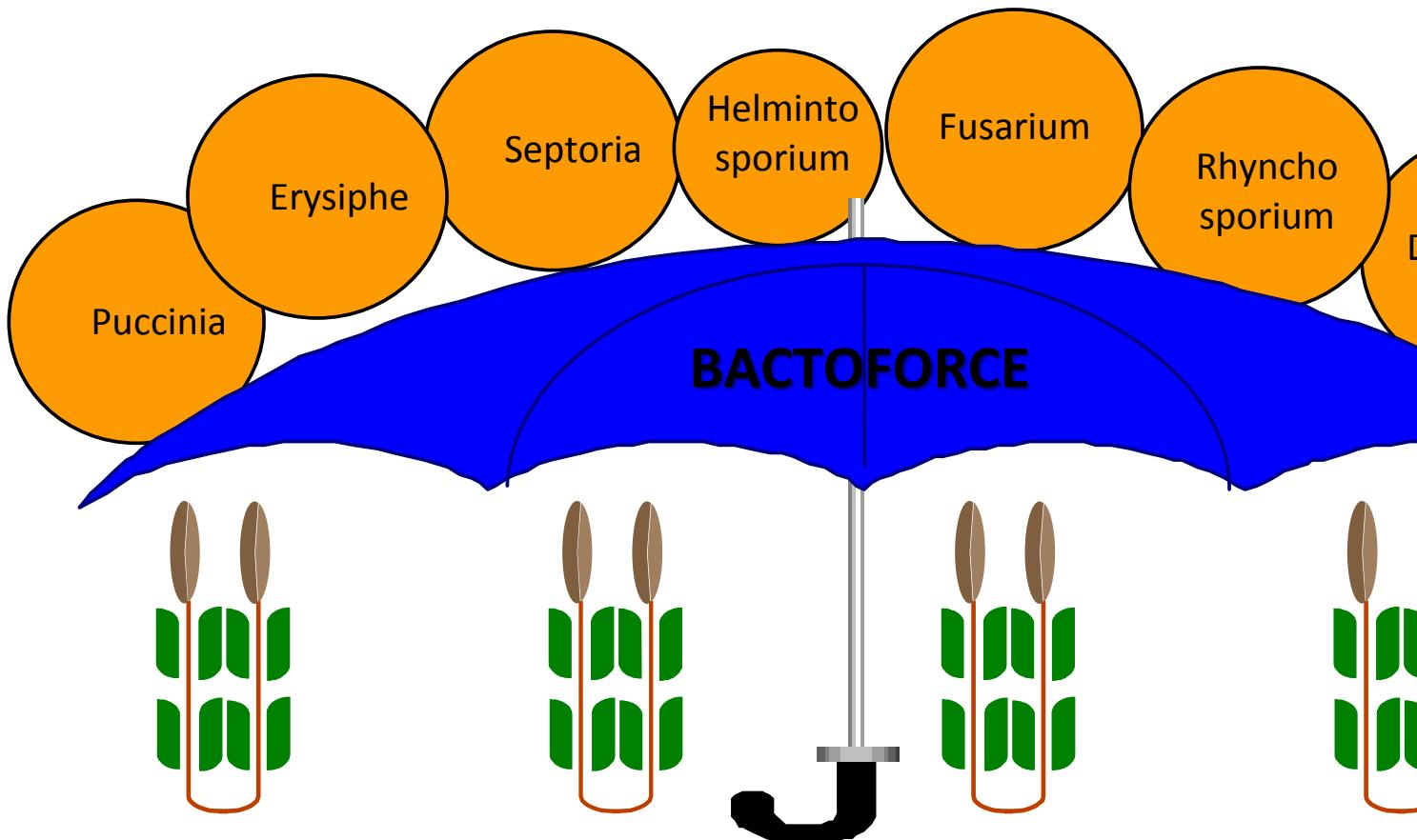
BACTOFORCE®

Bactoforce Healthy Soil = Healthy Plants



► **BACTOFORCE** – biological preparation containing ***Bacillus Subtilis*** which produces antibiotics, including some called iturins, which help the bacteria compete with other microorganisms either by killing them or by reducing their growth rate.





BACTOFORCE®

Bactoforce Healthy Soil = Healthy Plants

- ▶ Increases resistance to disease
- ▶ The prevalence of diseases in plants reduced up to 70%
- ▶ Recover natural soil balance.
- ▶ Same food base as pathogens
- ▶ Saves money



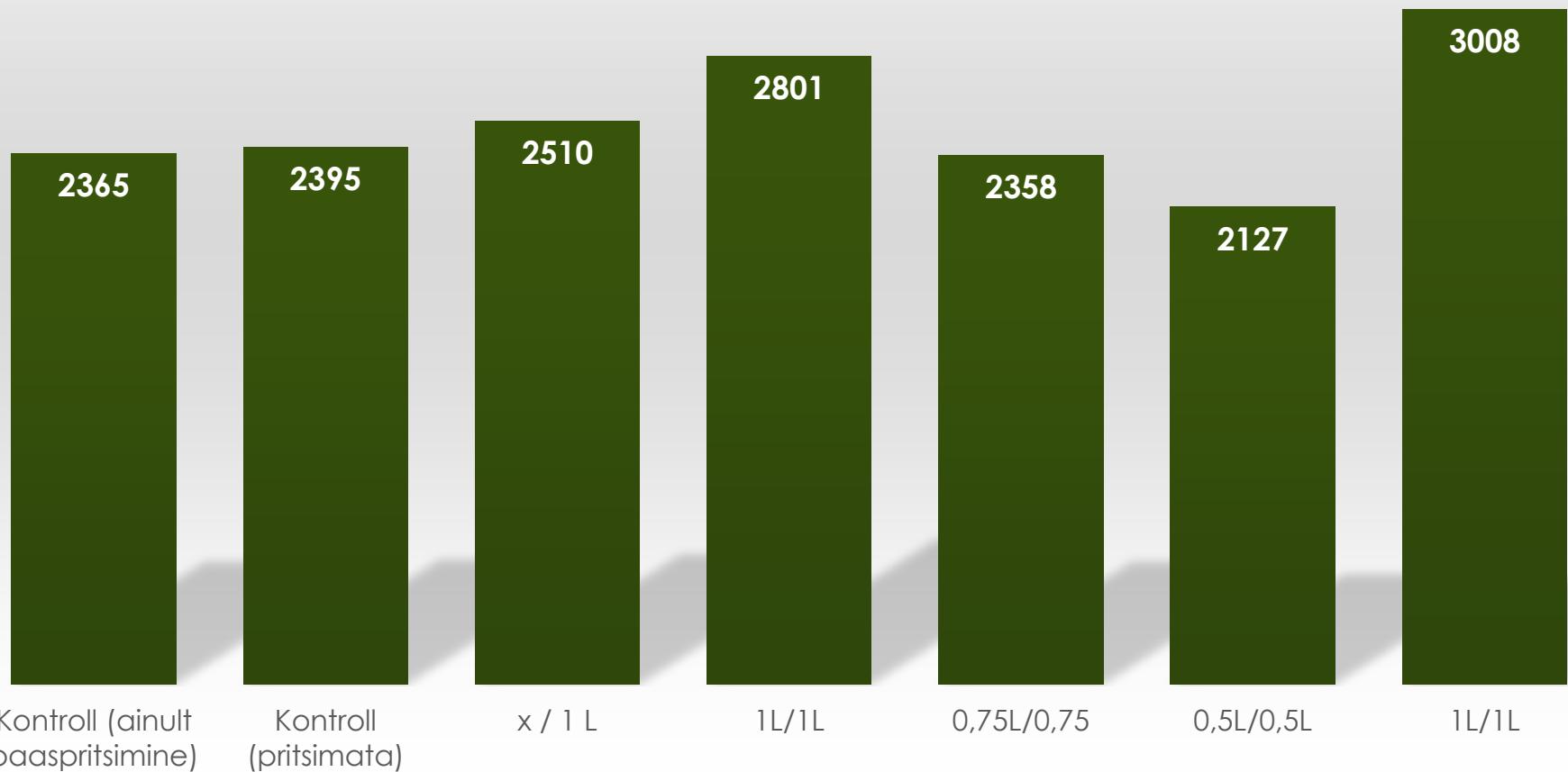
EESTI TAIIMEKASVATUSE INSTITUUT Saku 2016

variant	Suvinisu		Oder	
	Helelaiksus	Jahukaste	Võrklaiksus	Pruunlaiksus
Kontroll (ainult baaspritsimine)	51,7	3,4	7,7	3,6
Kontroll (pritsimata)	55,3	7,5	59,0	9,3
F07-P16 x/1L	19,0	5,2	5,9	3,2
F07-P16 1L/1L	15,0	3,9	7,7	3,4
F07-P16 0.75/0.75	28,7	5,1	9,2	3,3
F07-P16 0.5 / 0.5	35,8	5,5	13,6	3,2
Mirage 1L/1L	15,3	4,8	10,0	3,8

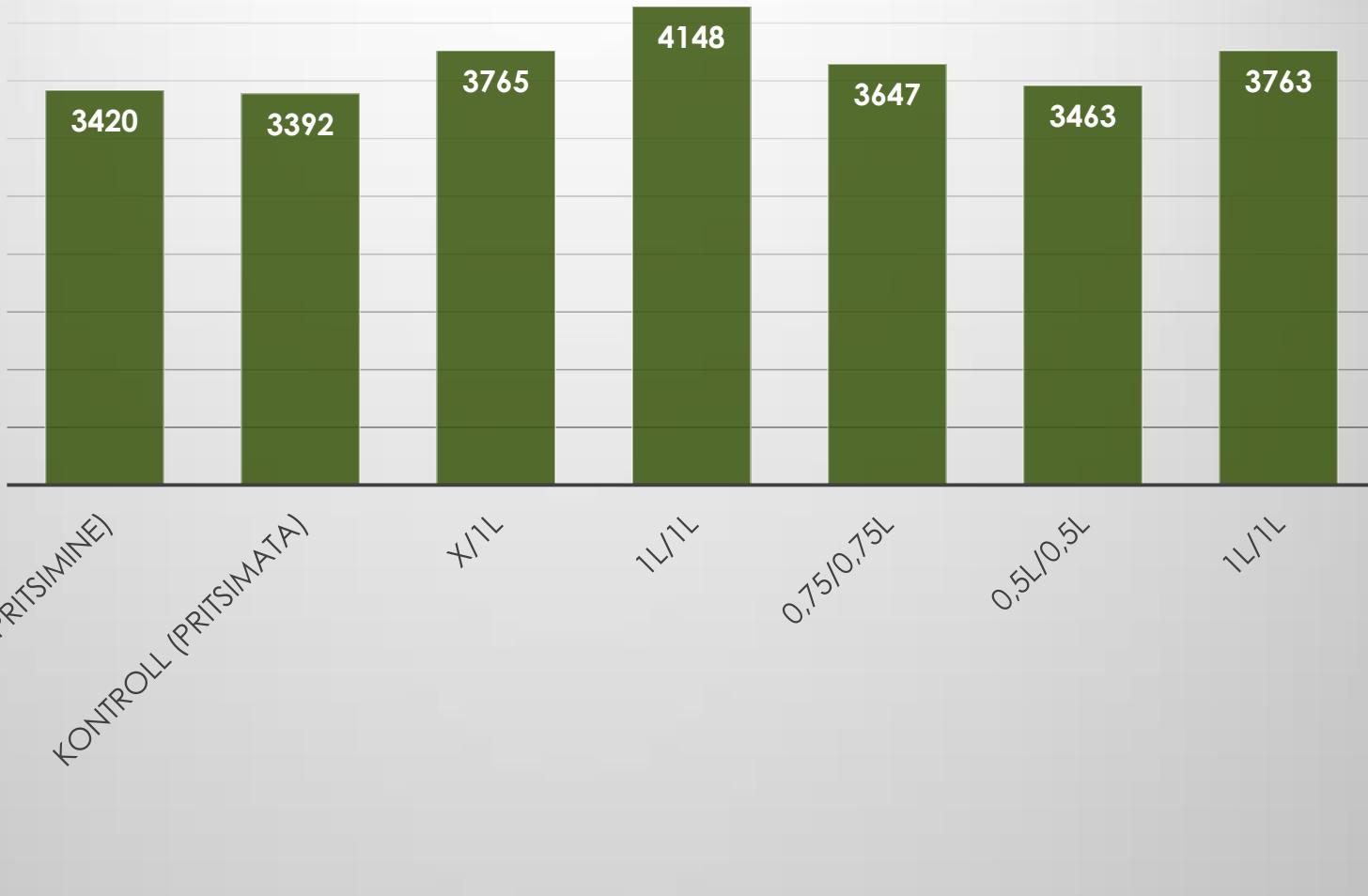
FIRST SPRAY BBCH 31-32

SECOND BBCH 47-55

SUVINISU SAAK KG/HA



ODRA SAAK KG/HA

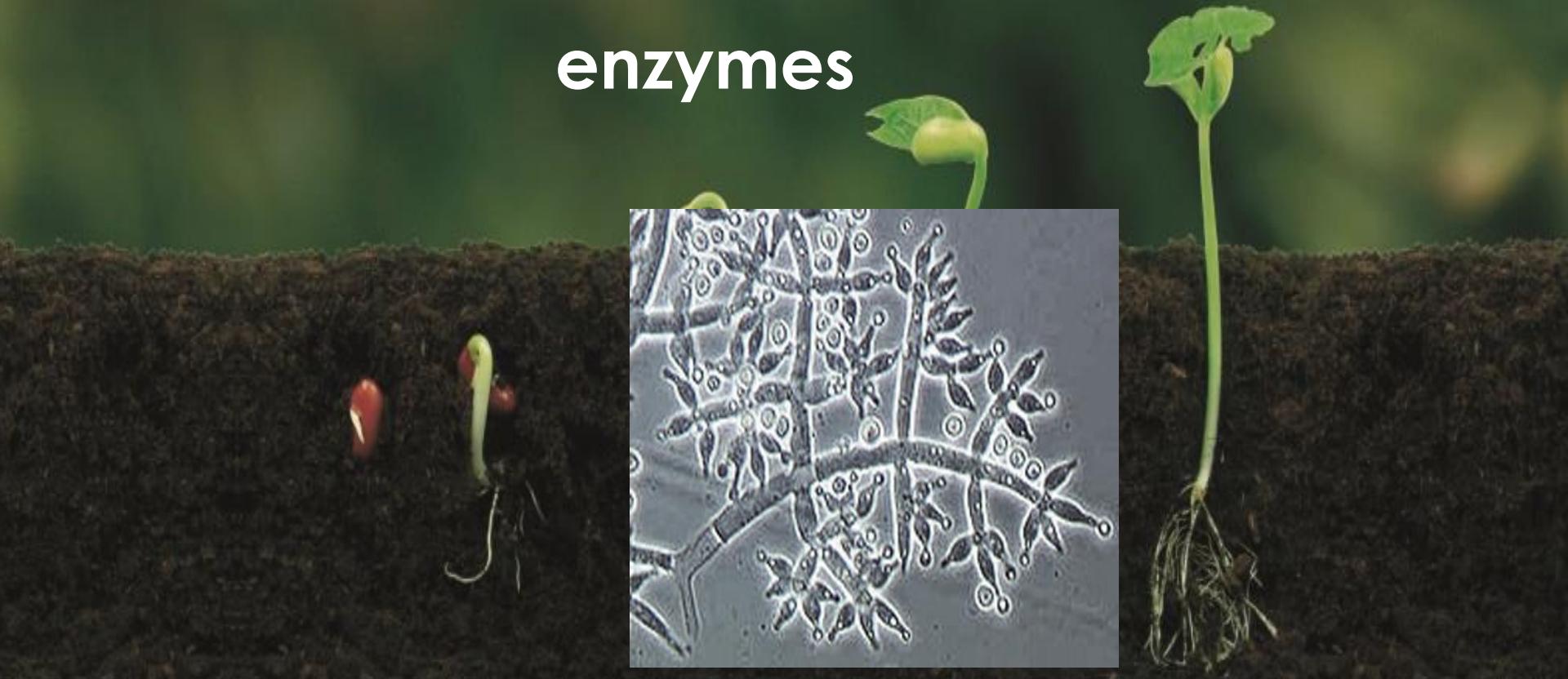


RUINEX®

Better mineralization



► RUINEX –decompose crop residues
(organic matter) by complex of fungi
Trichoderma spp., Bacteria and
enzymes





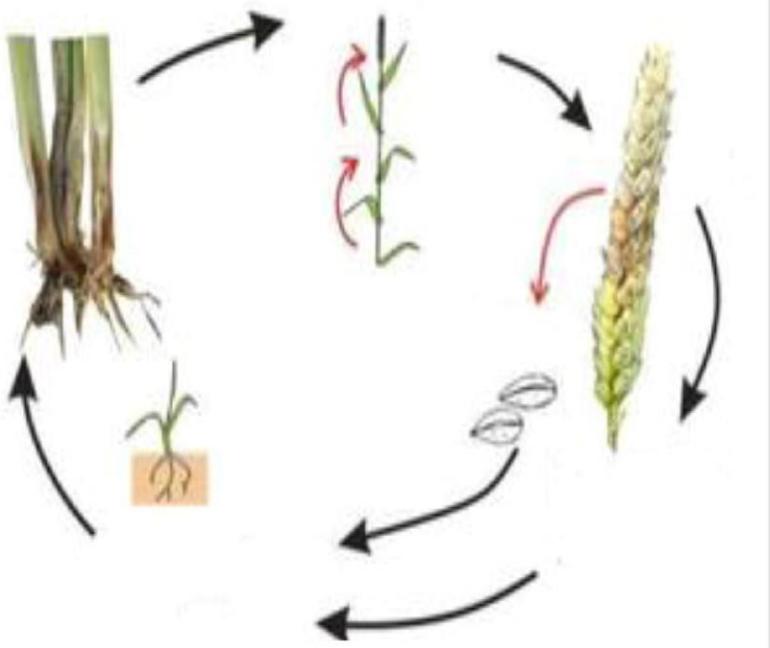
Why farmers should **NOT** burn it?



1 ton of straw contains:

- 5 to 8 kg nitrogen
- 1.2 kg phosphorous
- 20 kg potassium
- 40 kg silica
- 400 kg carbon

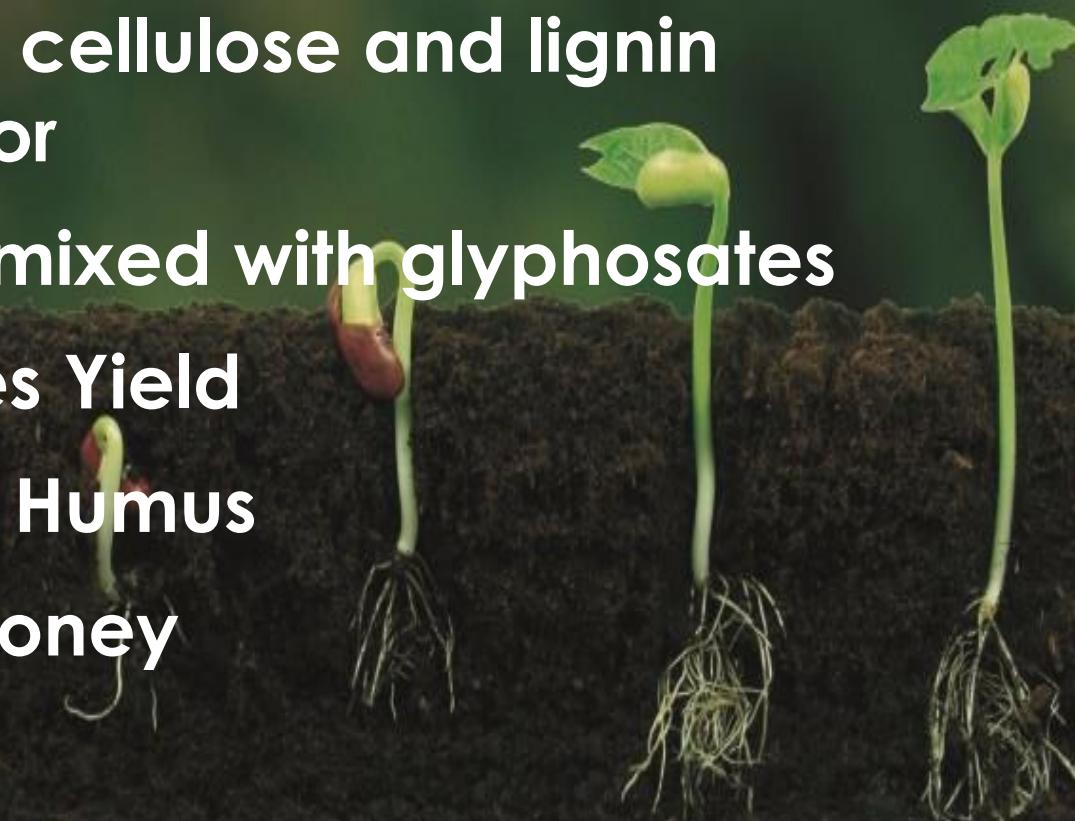
Per hectare, about
5 tons of straw are left



RUINEX®

Better mineralization

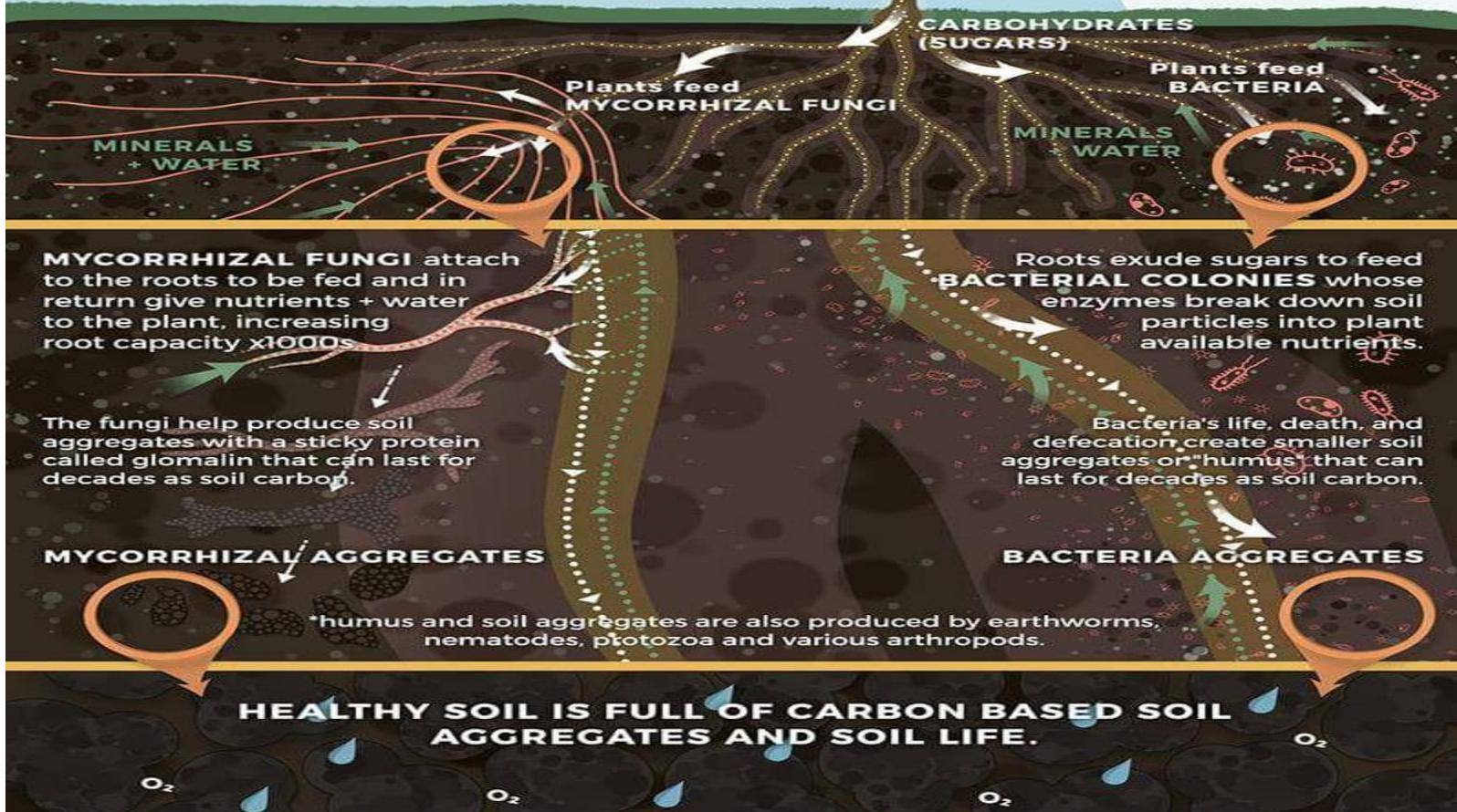
- ▶ Improves the health of the soil.
- ▶ Accelerates decomposition of plant residues.
- ▶ Powerful cellulose and lignin destructor
- ▶ Can be mixed with glyphosates
- ▶ Increases Yield
- ▶ Restores Humus
- ▶ Saves money

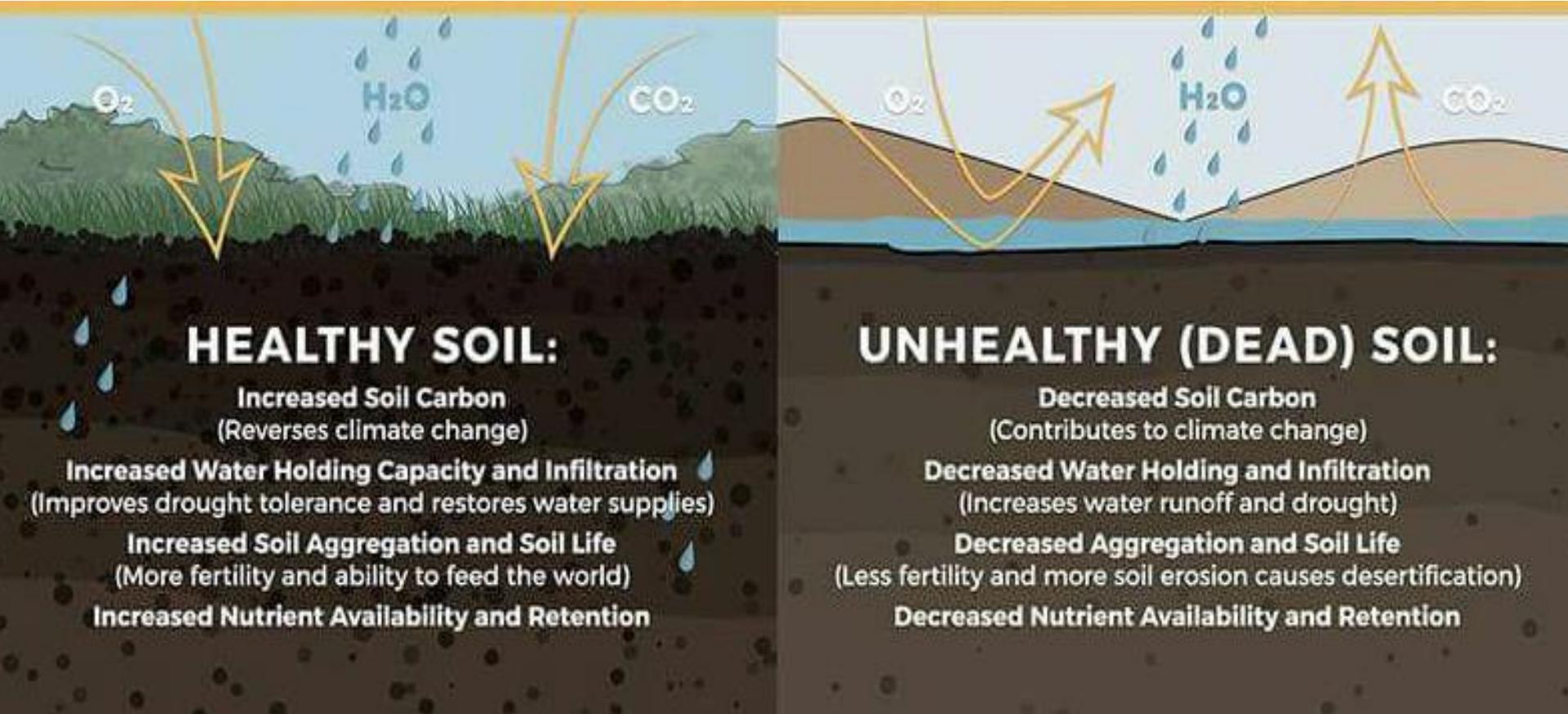


BUILDING HEALTHY SOIL SOLVES EVERYTHING!

PLANTS GROW BY MAKING CARBOHYDRATES (sugars) FROM CARBON DIOXIDE (CO_2) AND WATER (H_2O).

THEY SHARE THESE SUGARS WITH SOIL MICROBES WHO, IN EXCHANGE, FEED THE PLANT. THIS PROCESS BUILDS SOIL.







MAX PROLIN™

Pure L- α proline



► MaxProlin – inreprecable amino acid L-Proline.



- ▶ L-Proline helps to protect carbon and nitrogen reserves in the plant
- ▶ L-proline is necessary for pollen and, later, for seeds formation
- ▶ Activates respiration
- ▶ Reduces water losses
- ▶ Antistressor to abiotic and biotic stress

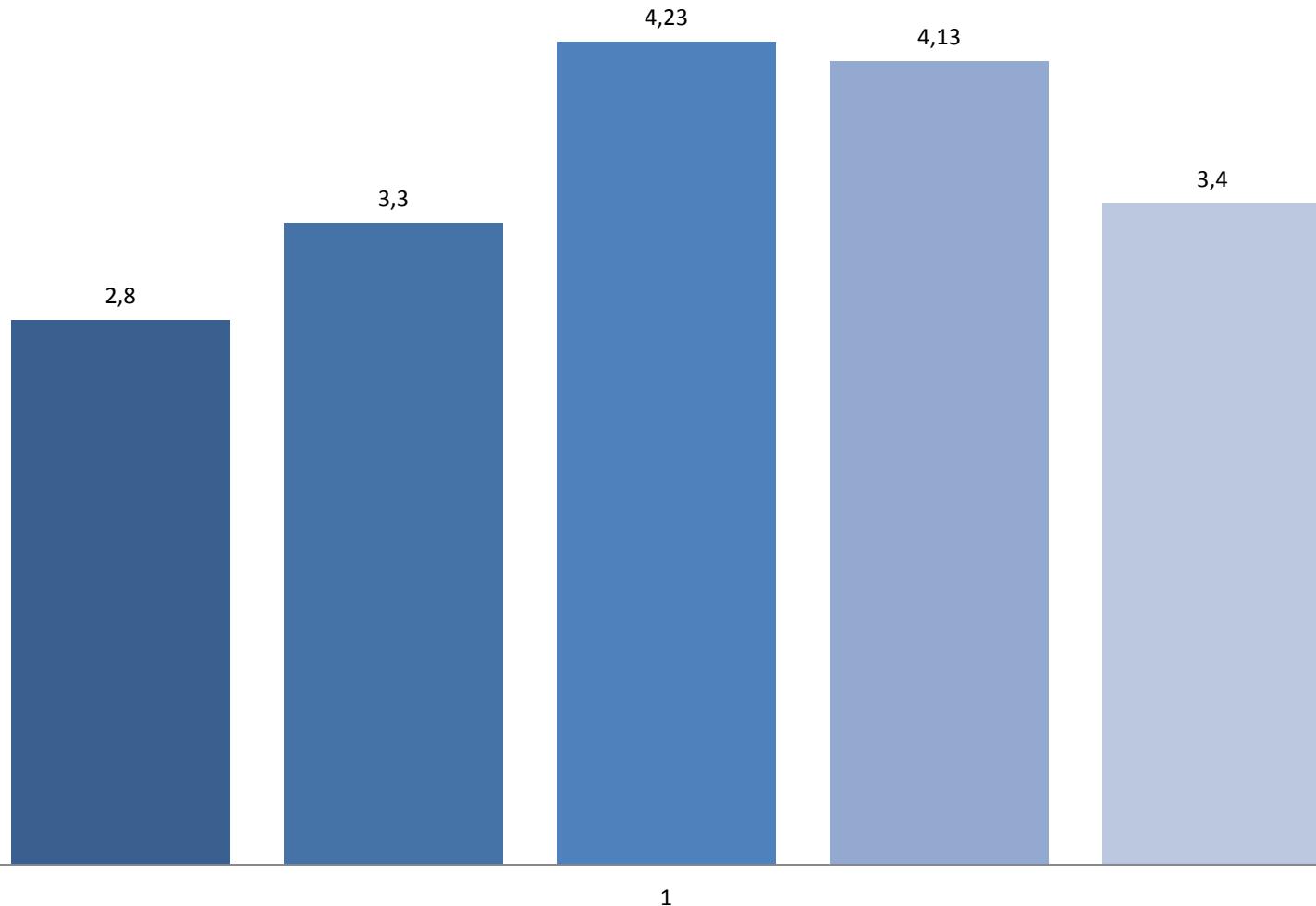


Mahe katse, talinisu: Fredis 2016 külv

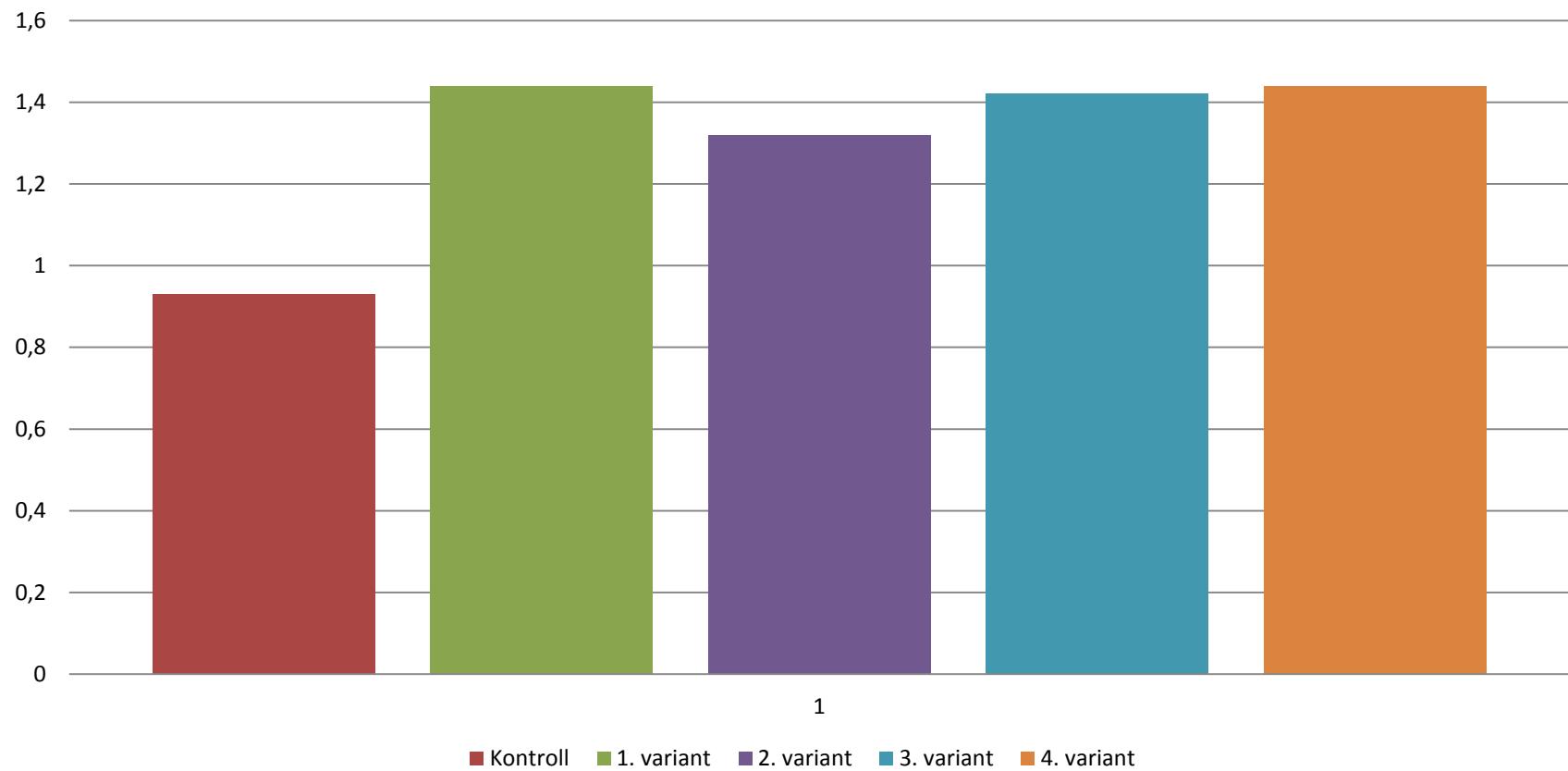
Külv:12.09.16	Külvisenorm	Seemnete puhtimine	Preparaat pritsitake mullale	Äestamine kevadel	Preparaat taimikule (BBCH 27)	Putukatõrje
Kontroll (0)	500 id./m ²	Bactoforce 1l/ha				NeemAzal 3l/ha
1 variant			Bactoforce, 1l/ha			
2 variant			Fosfix, 1l/ha		Azofix 1l/ha	
3 variant			Fosfix 1l/ha		Fosfix 1l/ha	
4 variant			Fosfix 1l/ha			
Tööde teostamine		12.09.2016	13.09.2016	11.04.2017	12.05.2017	25.05.2017

Saagikus t/ha

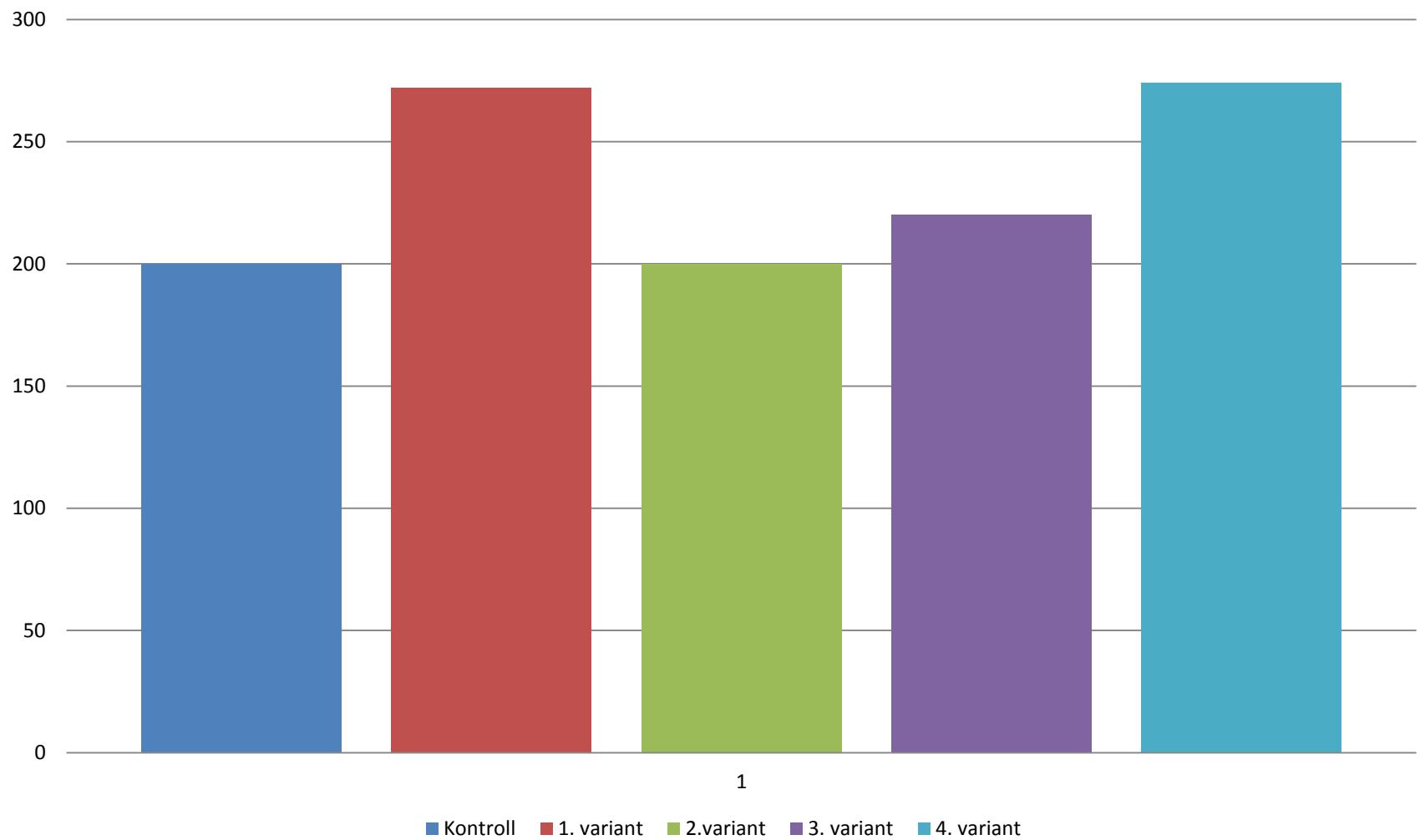
■ Kontroll ■ 1. variant ■ 2. variant ■ 3. variang ■ 4. variant



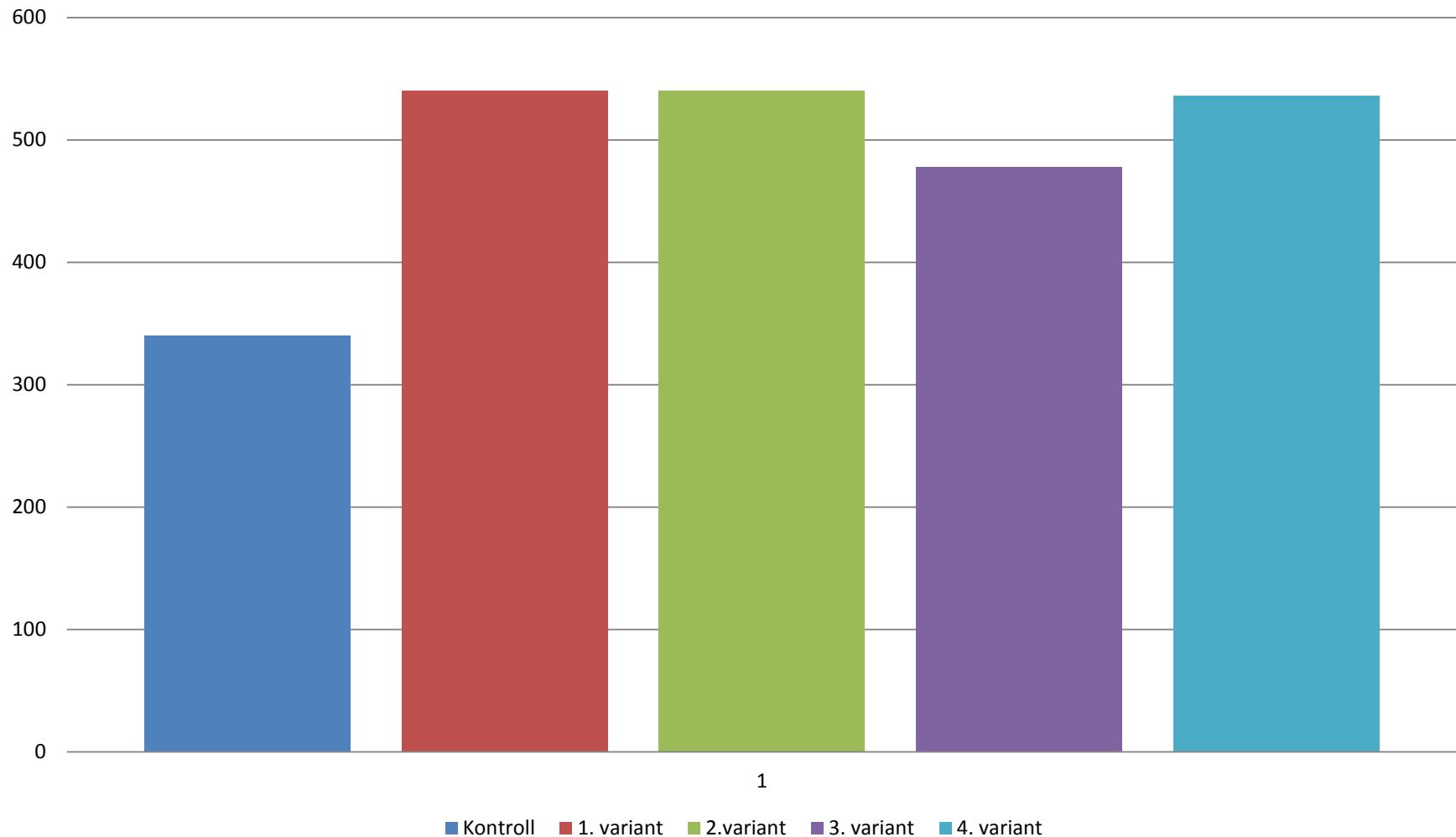
Vihu mass koos juurtega (kg/m²)



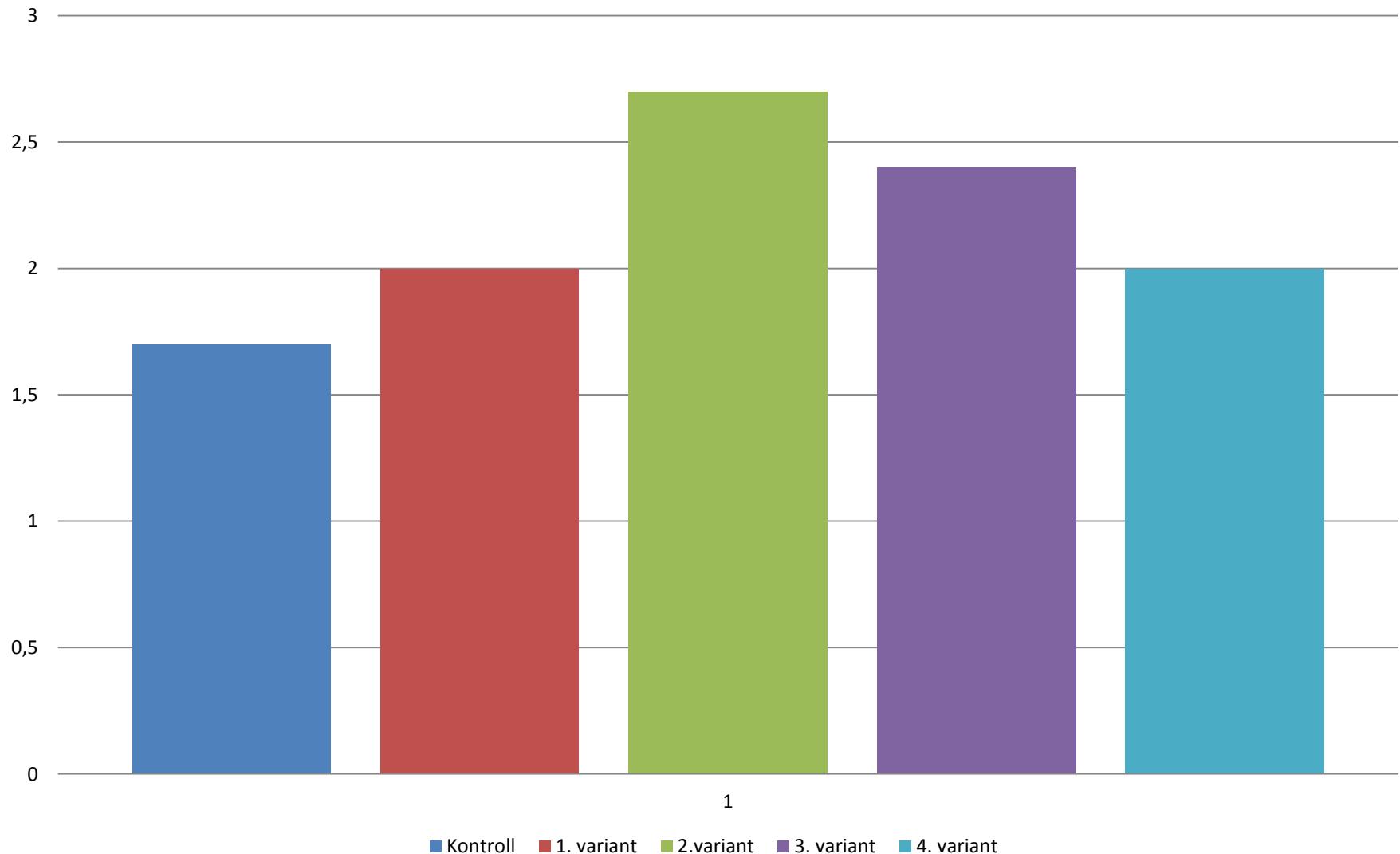
Taimede arv /m²



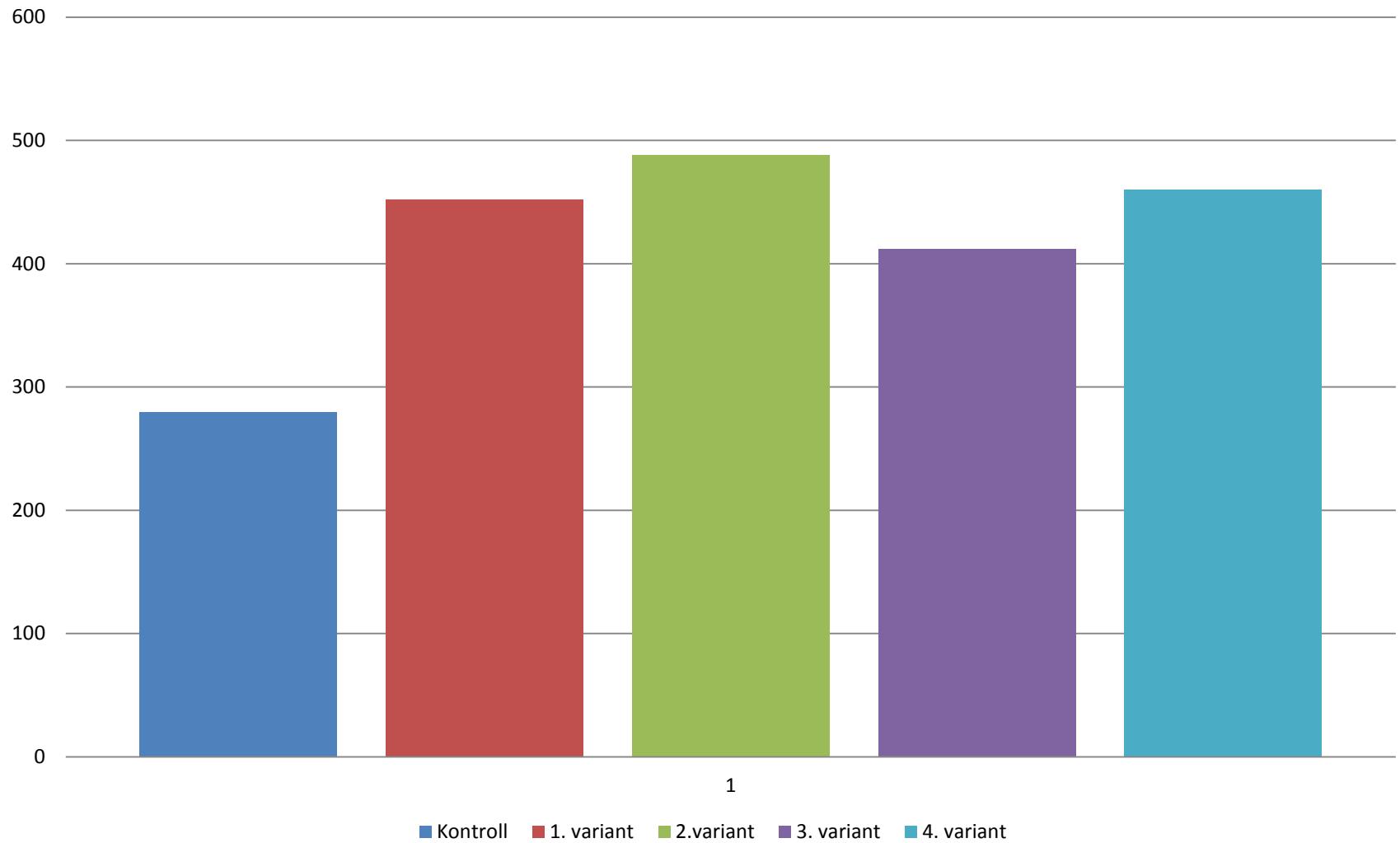
Üldine võrsumine /m²



Võrseid taime kohta



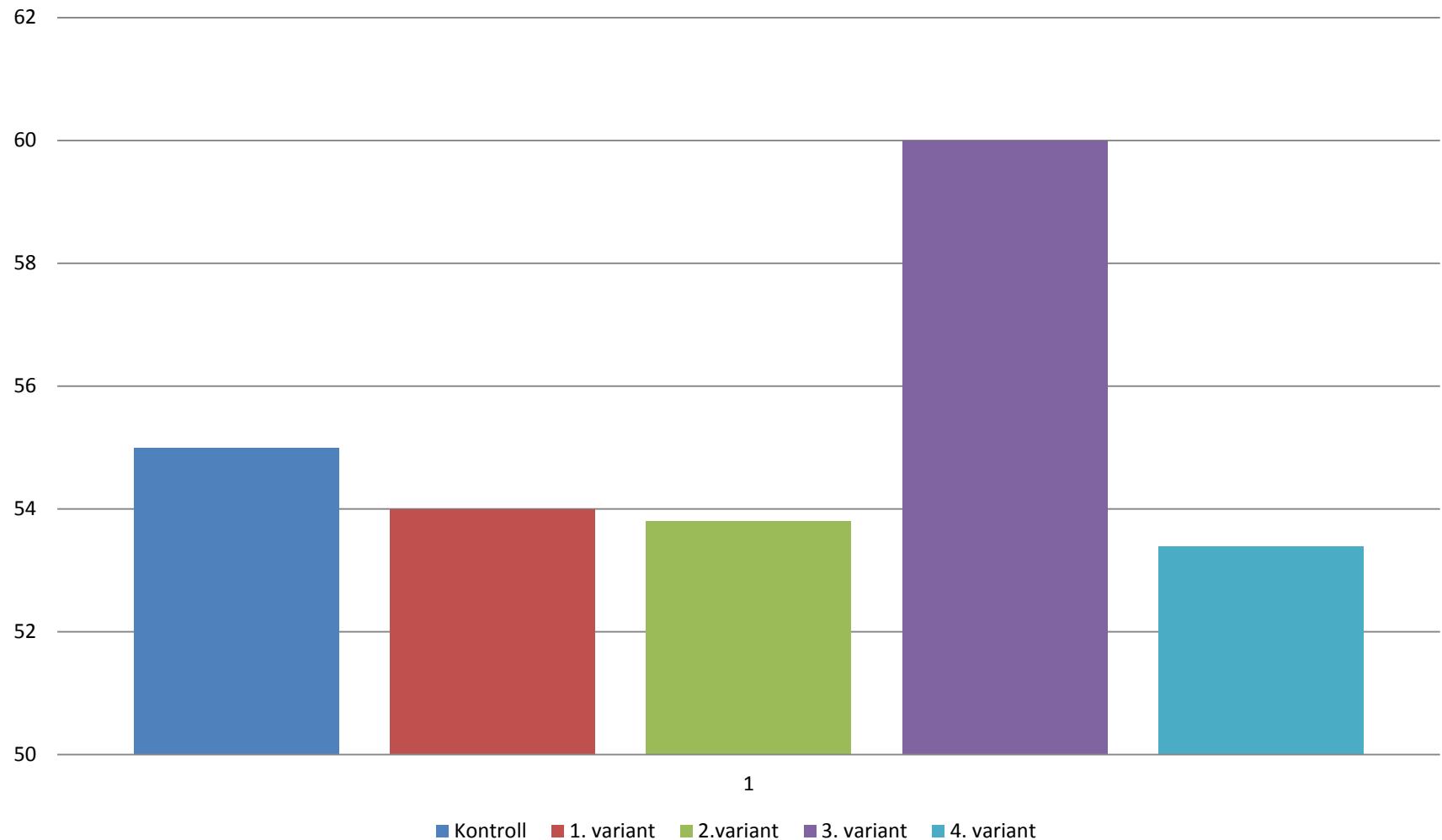
Produktiiv võrsumine m²







1000 tera mass g



AZOFIX®

Accumulate nitrogen

FOSFIX®

For optimal phosphorus uptake

BACTOFORCE®

Bactoforce Healthy Soil = Healthy Plants

MAX PROLIN

RUINEX®

Better mineralization



MAXPROLINI kasutamine talirapsil

Katse läbiviidud Tehnoloogija ja Loodusteaduste Ülikoolis Bydgoszcz-s.

Sort; Monolit

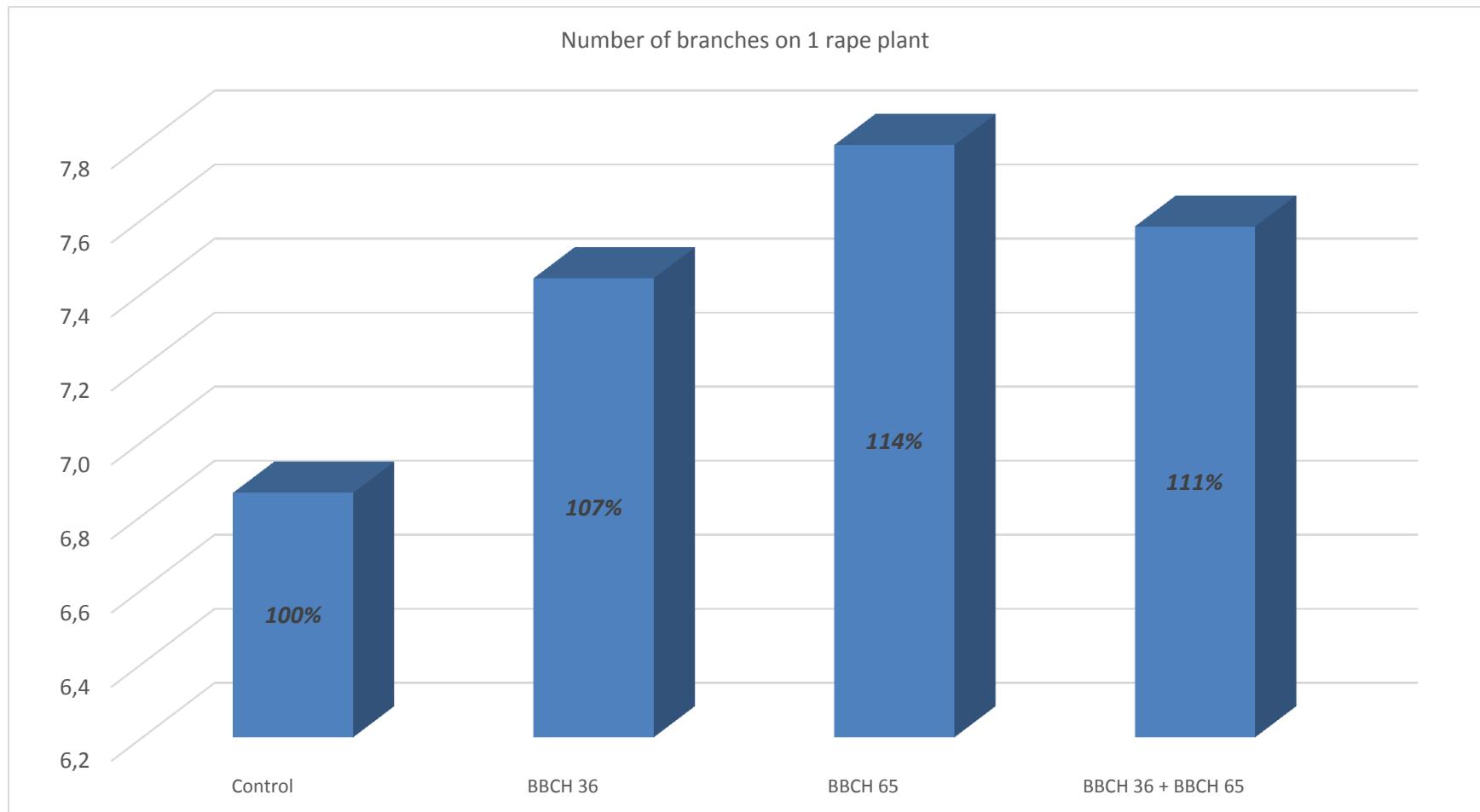
N – 34 kg/ha; P - 80 kg/ha; K – 70 kg/ha sügisel

N – 100 kg/ha kevadel.

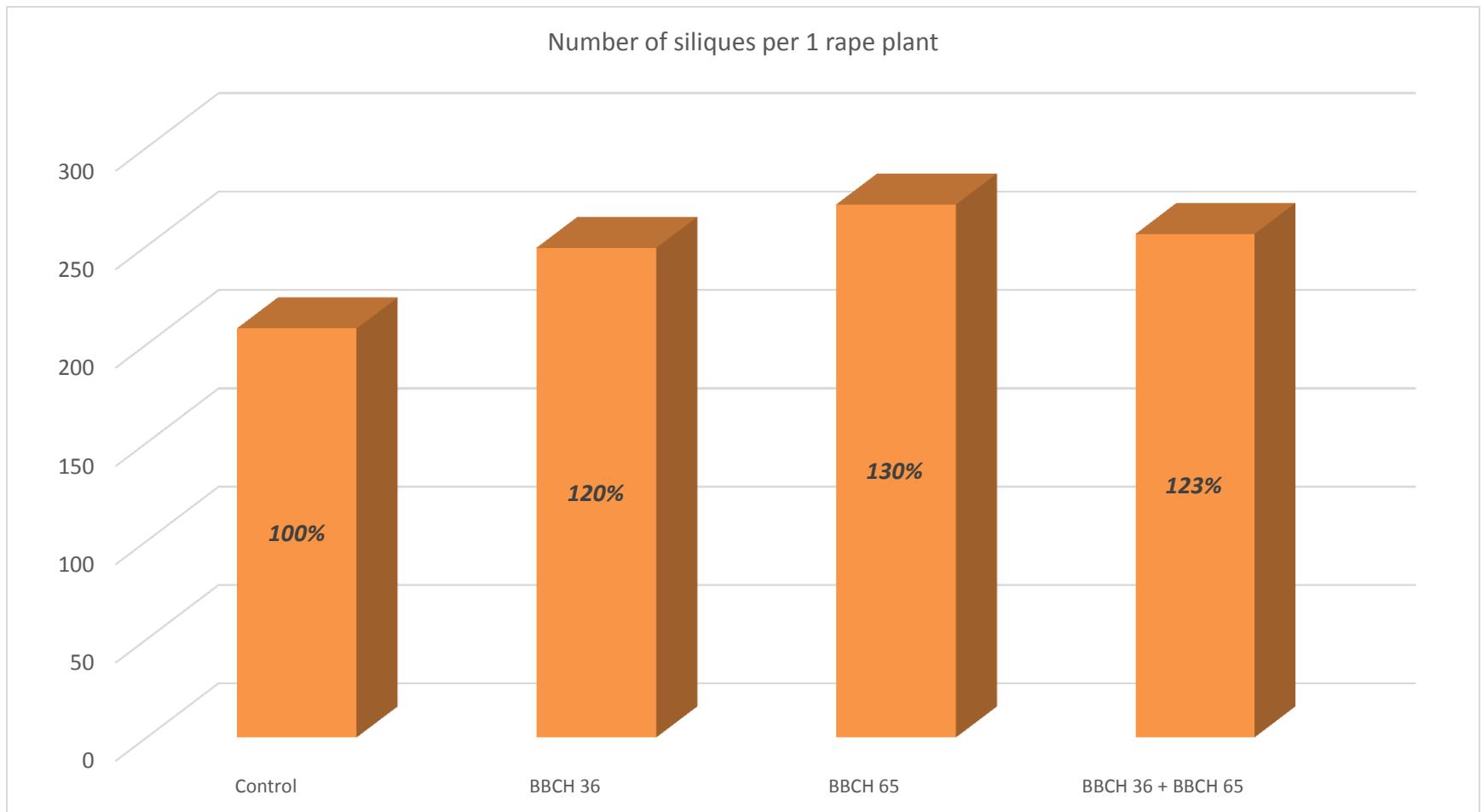
4,4 t/ha kontroll

4,8 kuni 5,0 t/ha

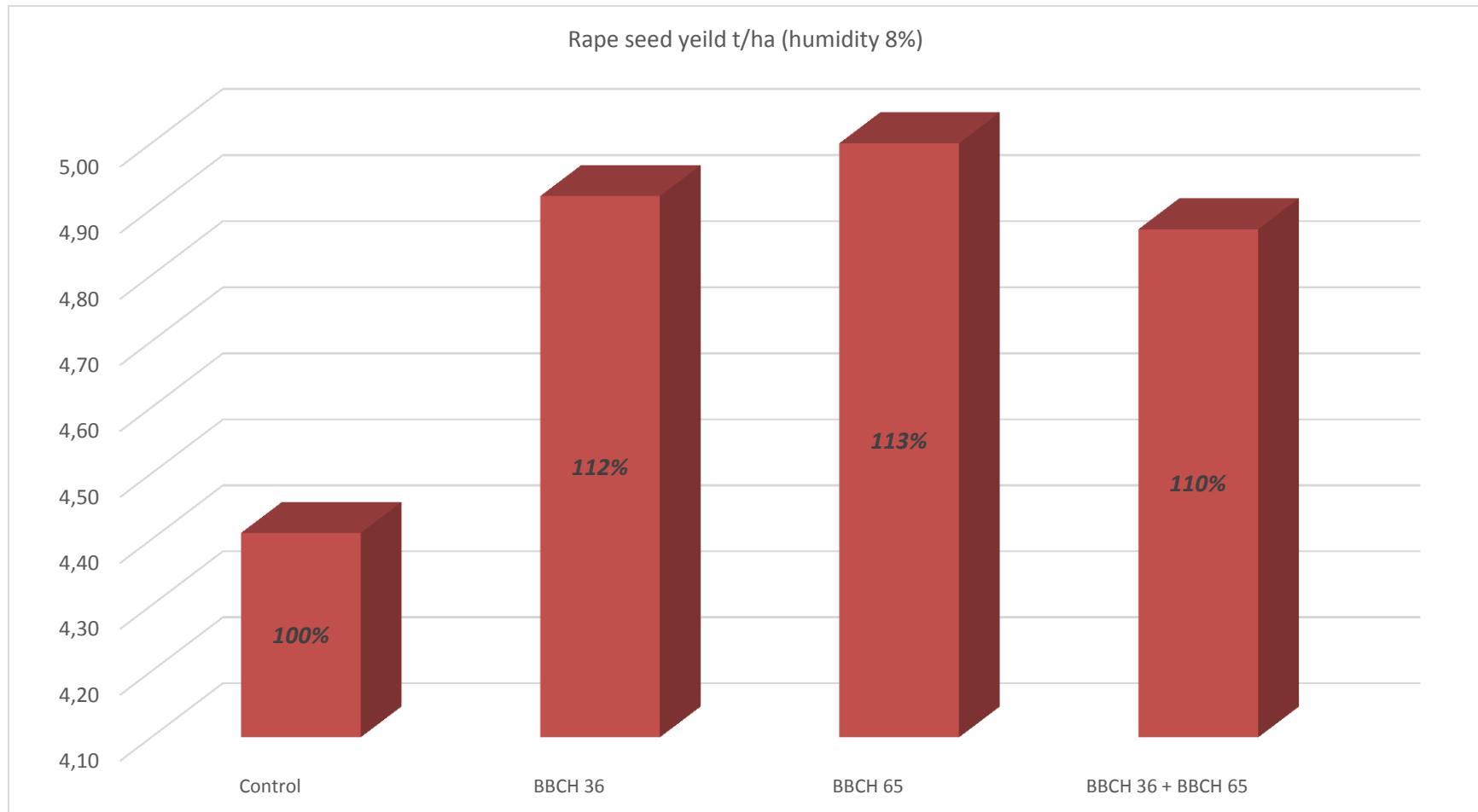
Külgvörsete arv taimel



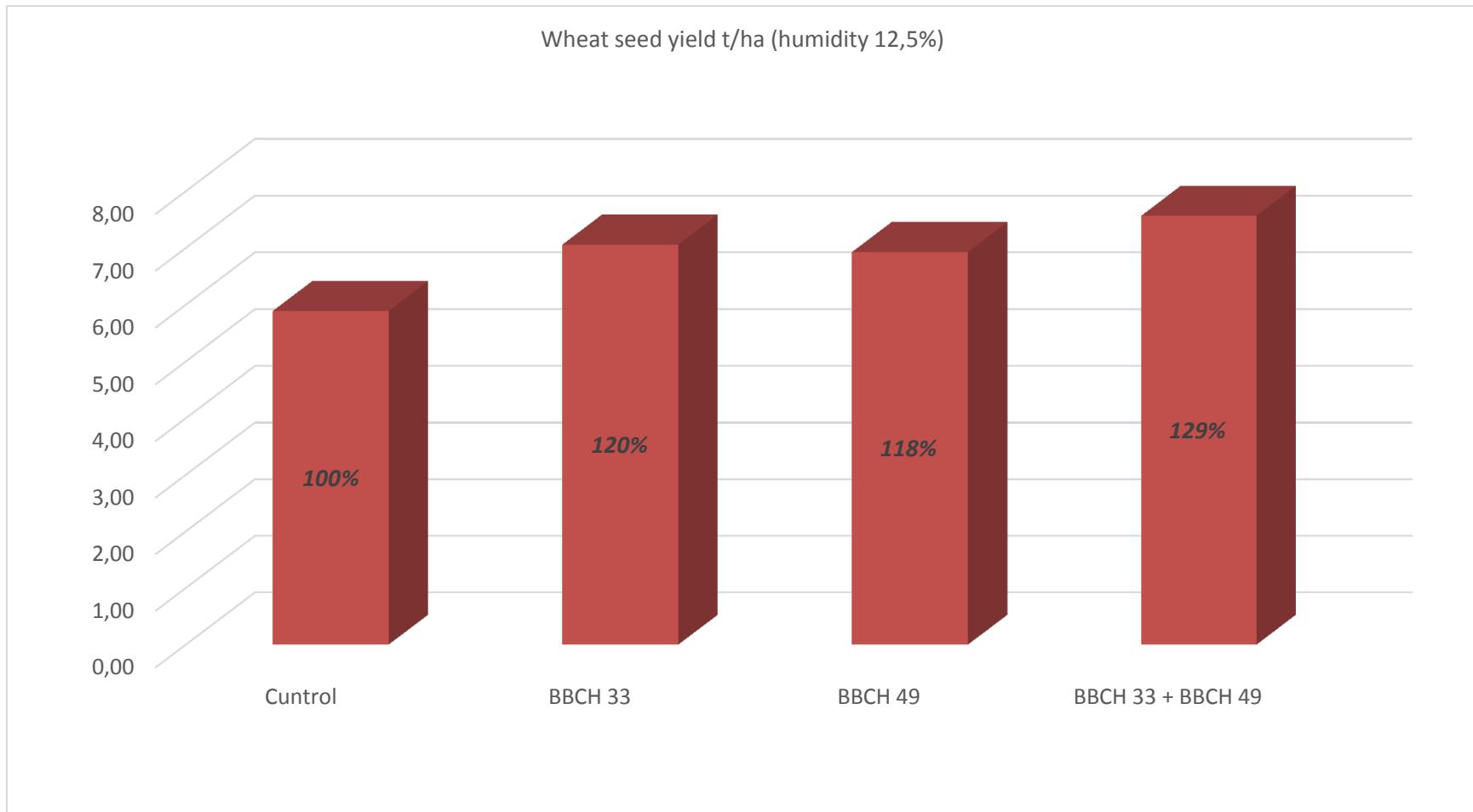
Kõtrade arv taime kohta



Rapsi saak t/ha (niiskus 8%)



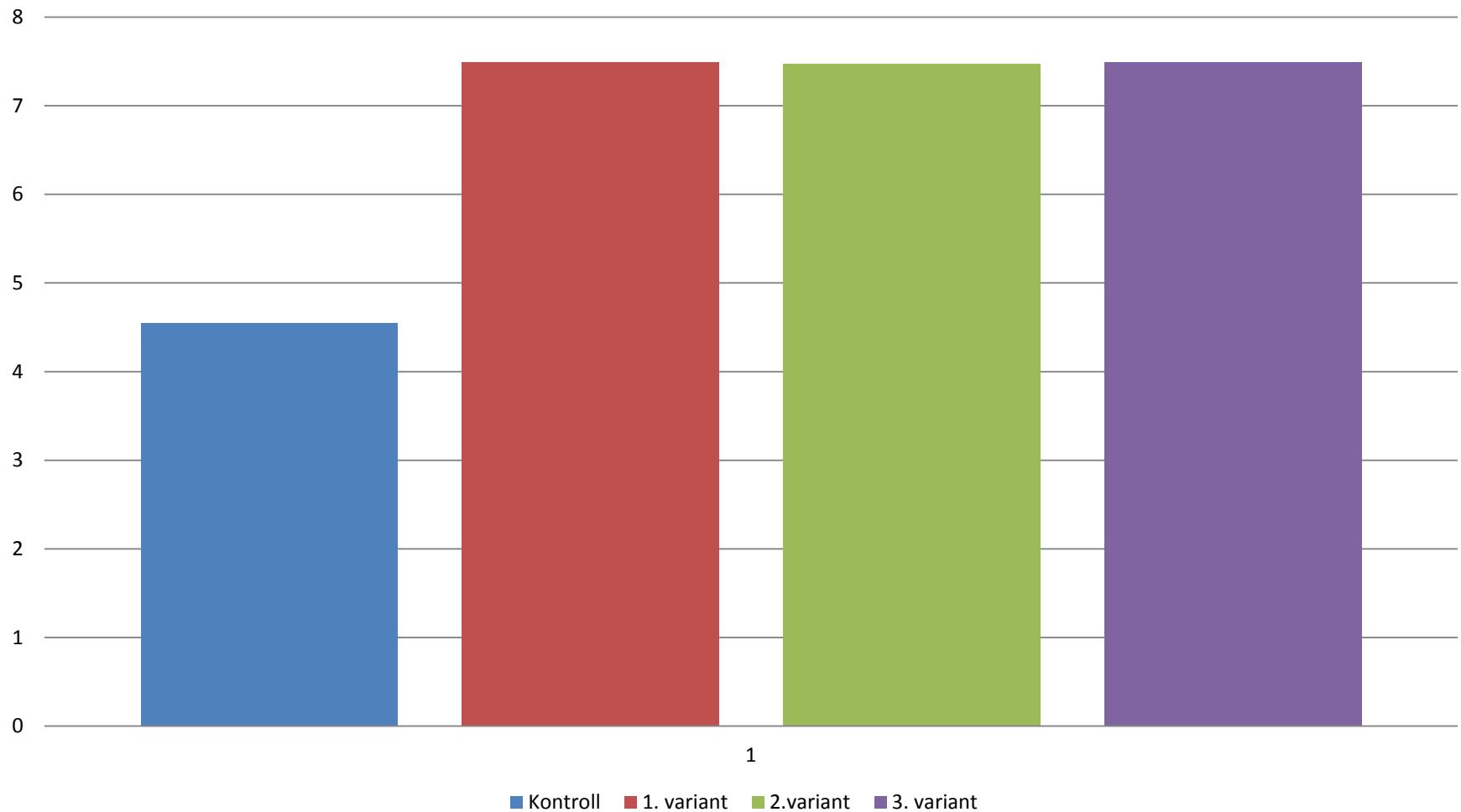
Talinisu saak MAXPROLINI kasutamisel



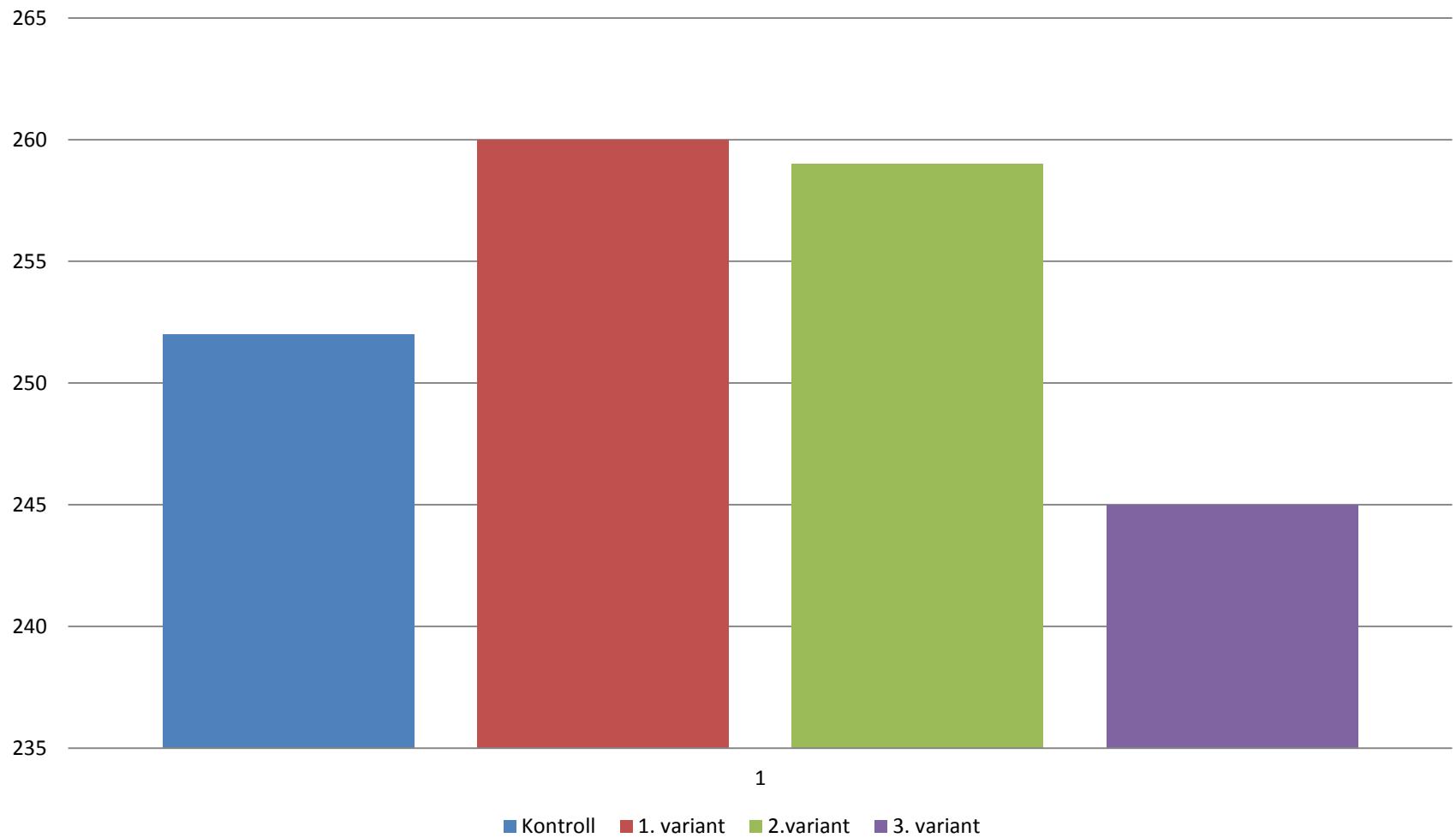
Kanasõnniku graanulite kasutamise katse suvinisul, Läti 2017

Izmēģinājuma varianti			
Variants	Pamatmēslojums 28.04.2017.	1. papildmēslojums 23.05.2017.	2. papildmēslojums 20.06.2017.
1	---	---	---
2	$N_6P_{18}K_{34}$ 200 kg ha ⁻¹	Amonija nitrāts N _{34,4} , N 80 kg ha ⁻¹	Amonija sulfāts N _{21S₂₄} N 50 kg ha ⁻¹
3	EGG granulas 500 kg ha ⁻¹ + $N_6P_{18}K_{34}$ 100 kg ha ⁻¹	Amonija nitrāts N _{34,4} , N 71 kg ha ⁻¹	Amonija sulfāts N _{21S₂₄} N 50 kg ha ⁻¹
4	EGG granulas 1000 kg ha ⁻¹	Amonija nitrāts N _{34,4} , N 62 kg ha ⁻¹	Amonija sulfāts N _{21S₂₄} N 50 kg ha ⁻¹

Suvinisu saak t/ha



Taimede arv/m²



SOIL

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BaltChem OÜ

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