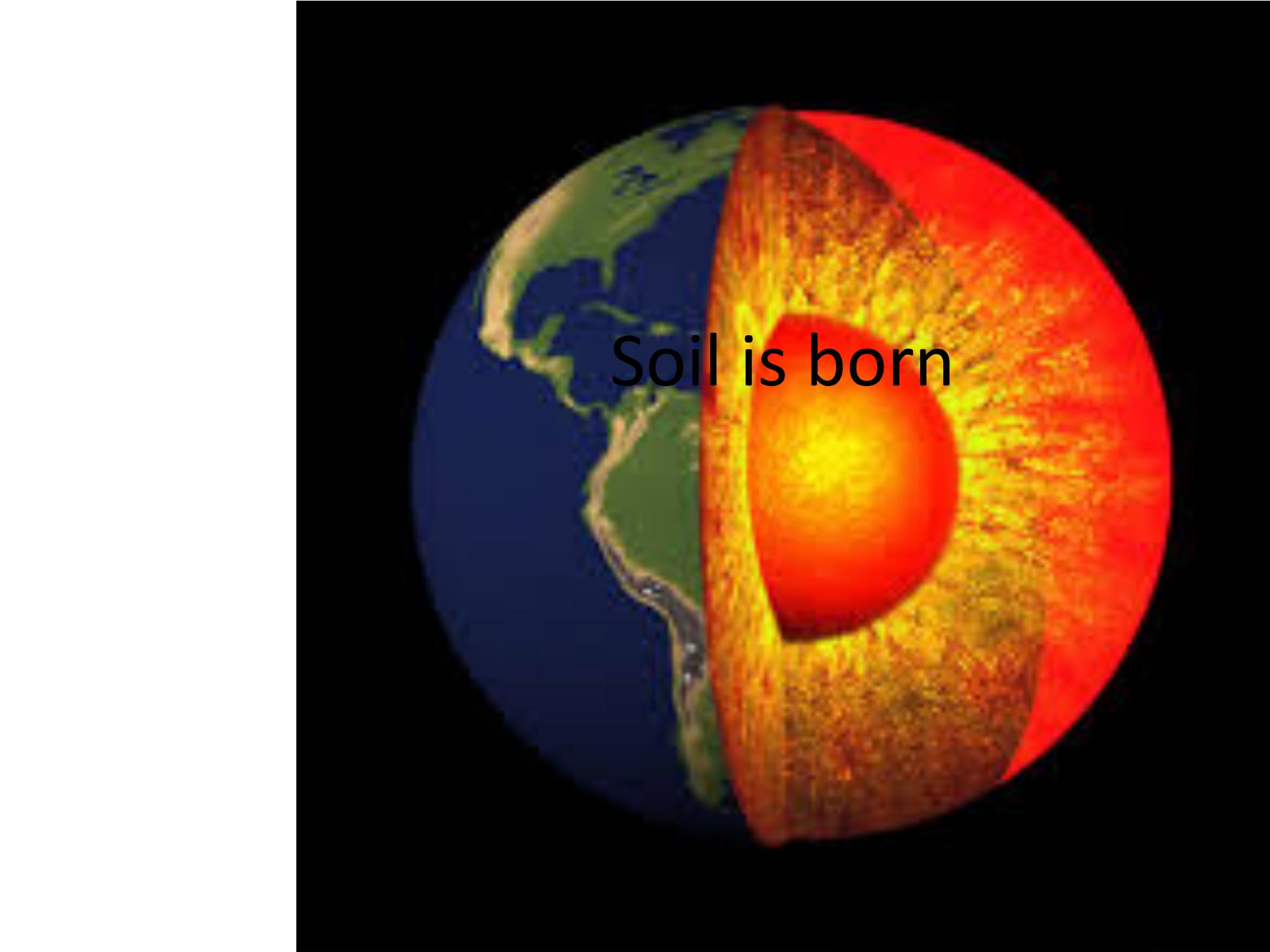


JUST SOIL!

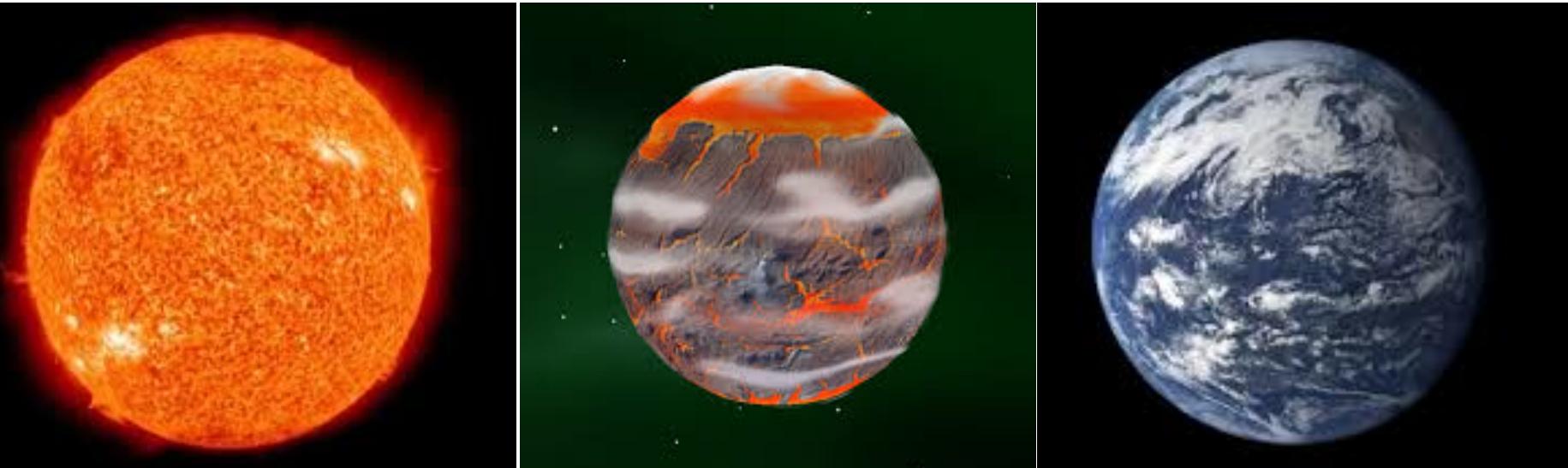
Soil regeneration, biofertilisers, productivity
water, yield

ROCKIN SOILS



Soil is born

Earth Cooling Down



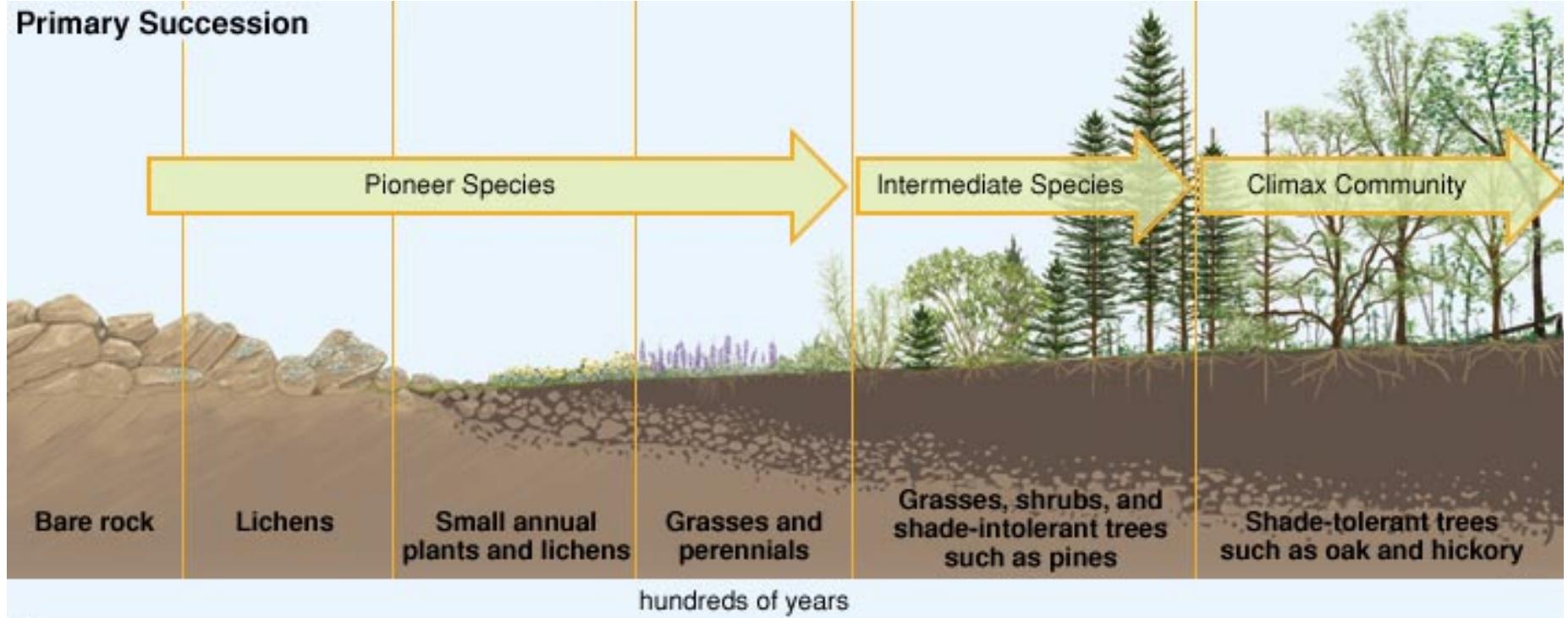
ROCKIN SOILS

Mineral-diversity

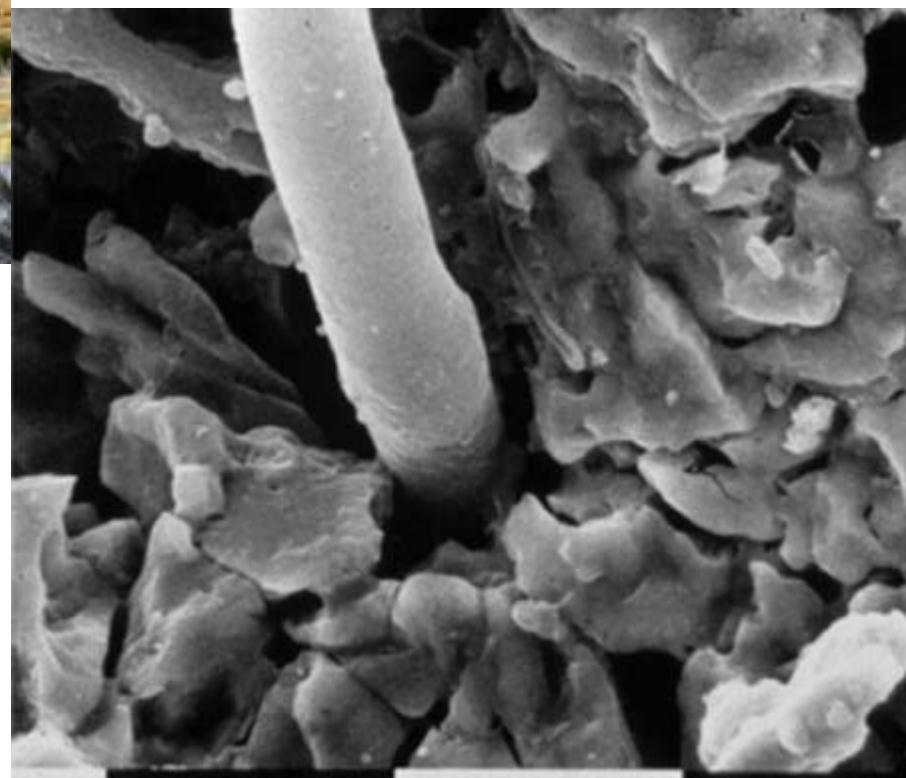
Ethiopia 2012

1. Tuff
2. Olivine
3. Tuff
4. Basalt orig.
5. Fine grained basalt
6. Tuff
7. Olivine
8. Basalt orig.
9. Tuff
10. Talc
11. Olivine
12. Black glass
13. Pyroxen Basalt
14. Olivine
15. Olivine





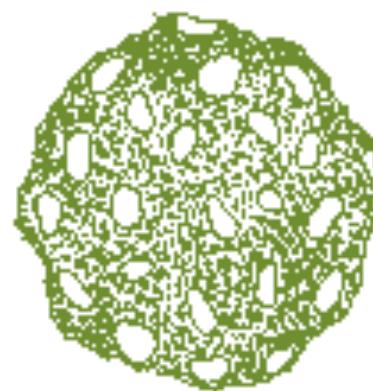
What happen to the rocks



MICROBIAL AND FUNGAL
BYPRODUCTS GLUE
THE PARTICLES TOGETHER



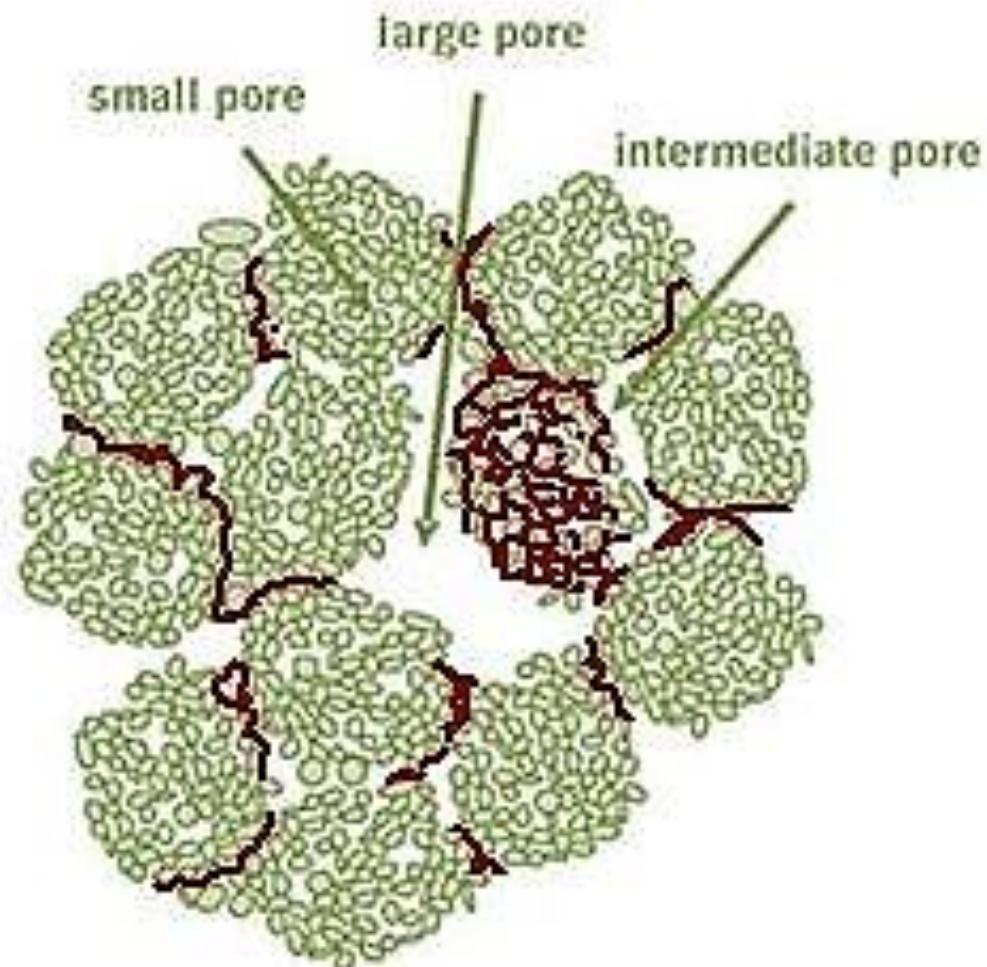
DISPERSED STATE



AGGREGATED STATE

Structure

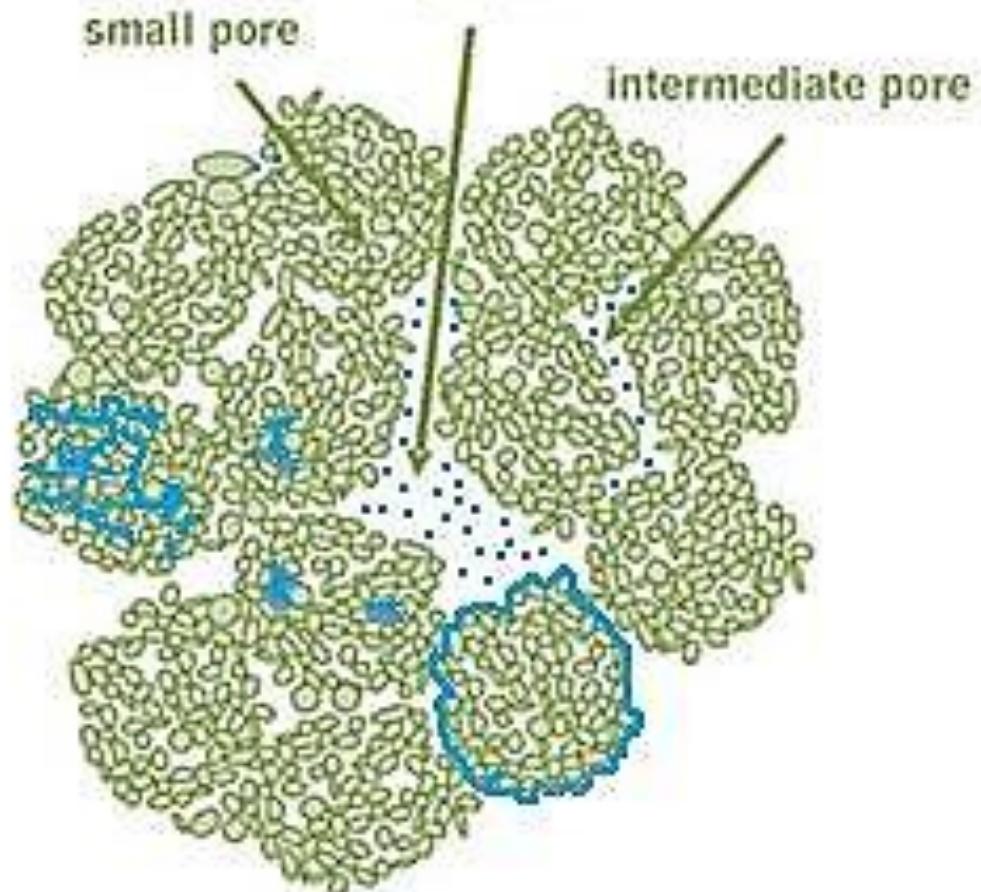
Food
Water
Air



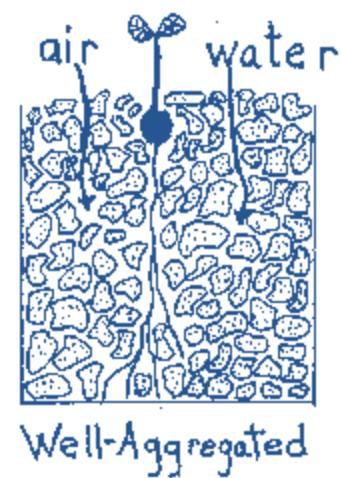
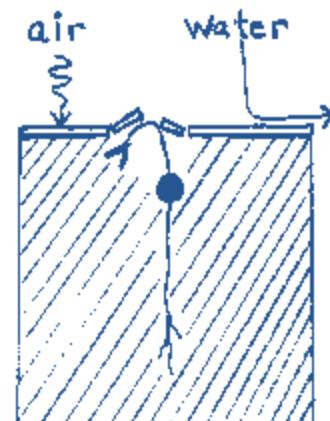
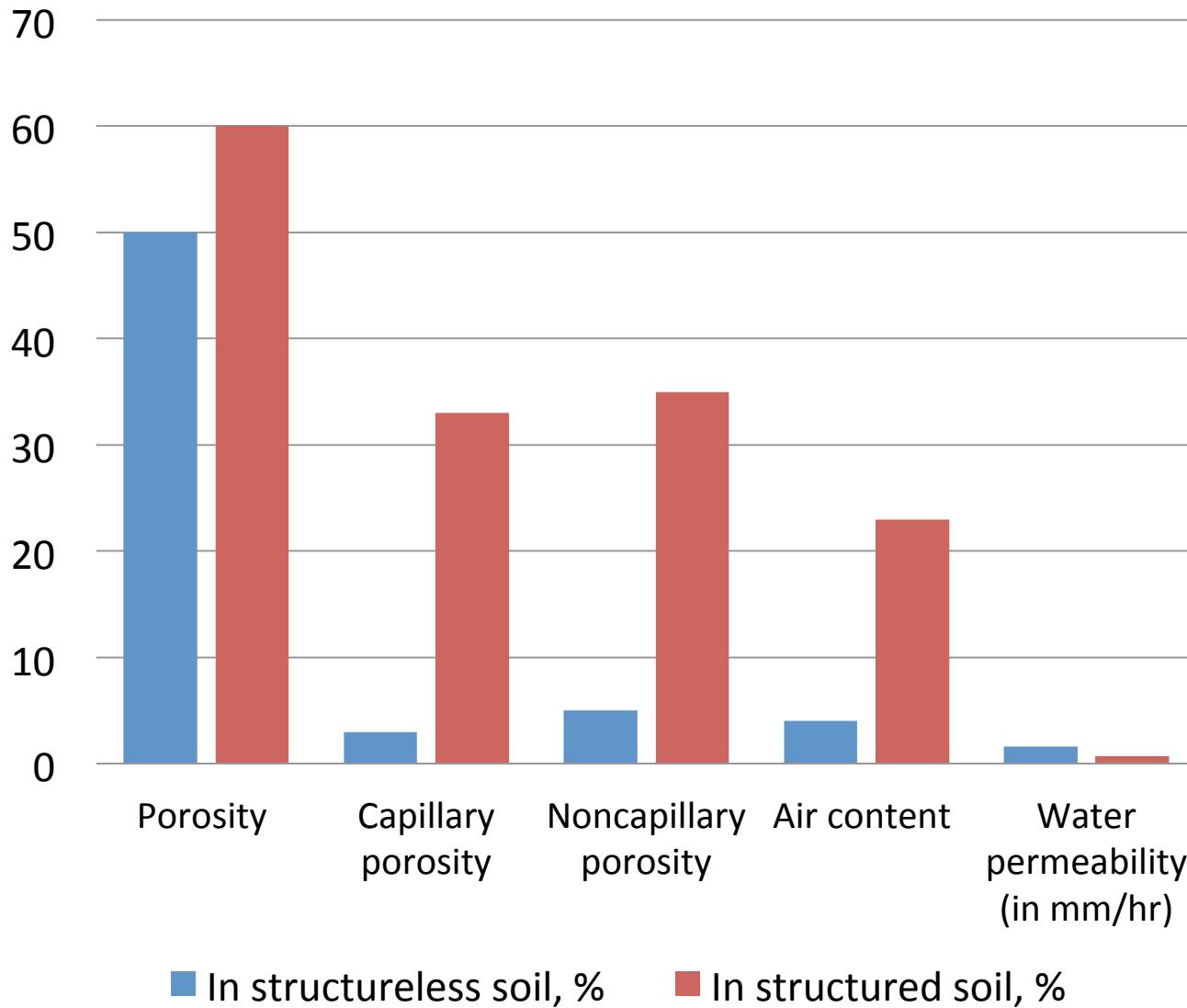
Glomalin

Water

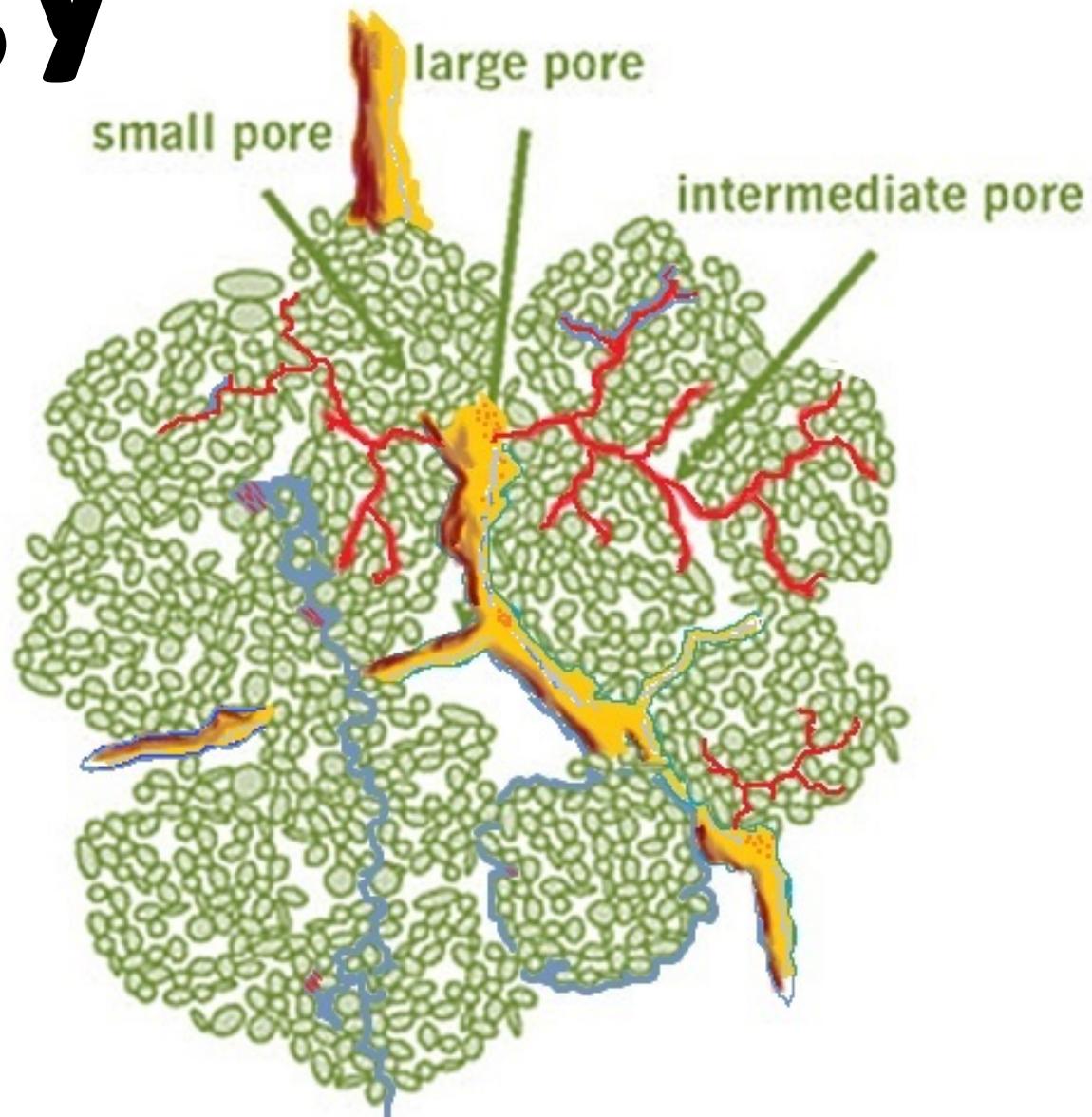
Hygroscopic water
Film water
Capillary water
 Mobile
 Immobile
Gravitational water
Water vapor



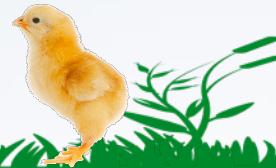
Properties & Soil structure



Biology



Sun



Air, Water

Bio-available minerals

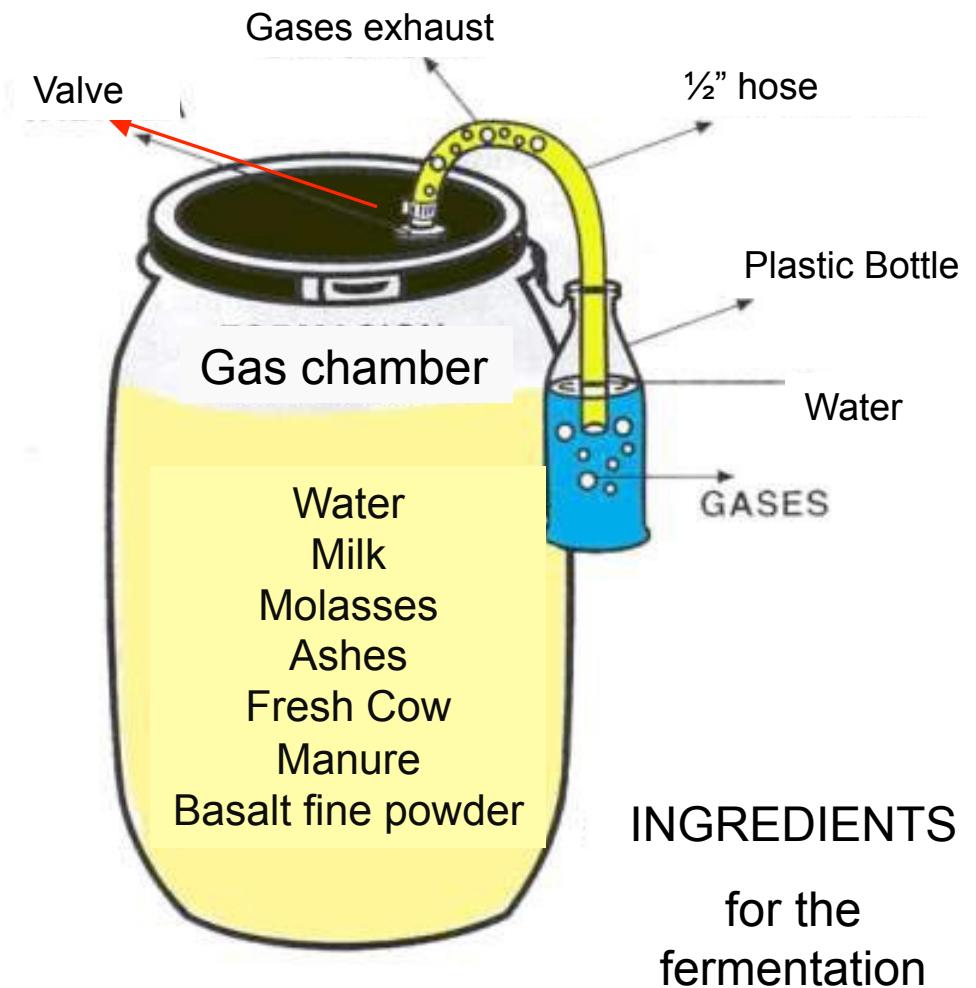


Case 1: Sorghum

ETHIOPIA, 2013 SORGHUM





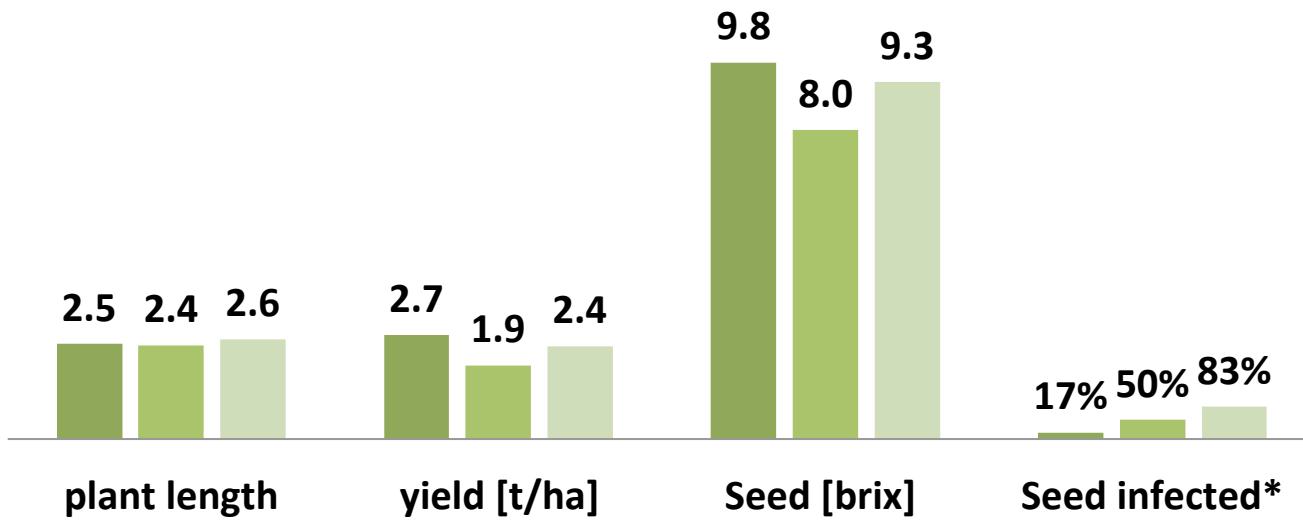






Sorghum Ethiopia 2013

■ Bio ■ Control ■ DAP



*Fungal infection, 3 weeks after harvest



Functional Bio-Diversity



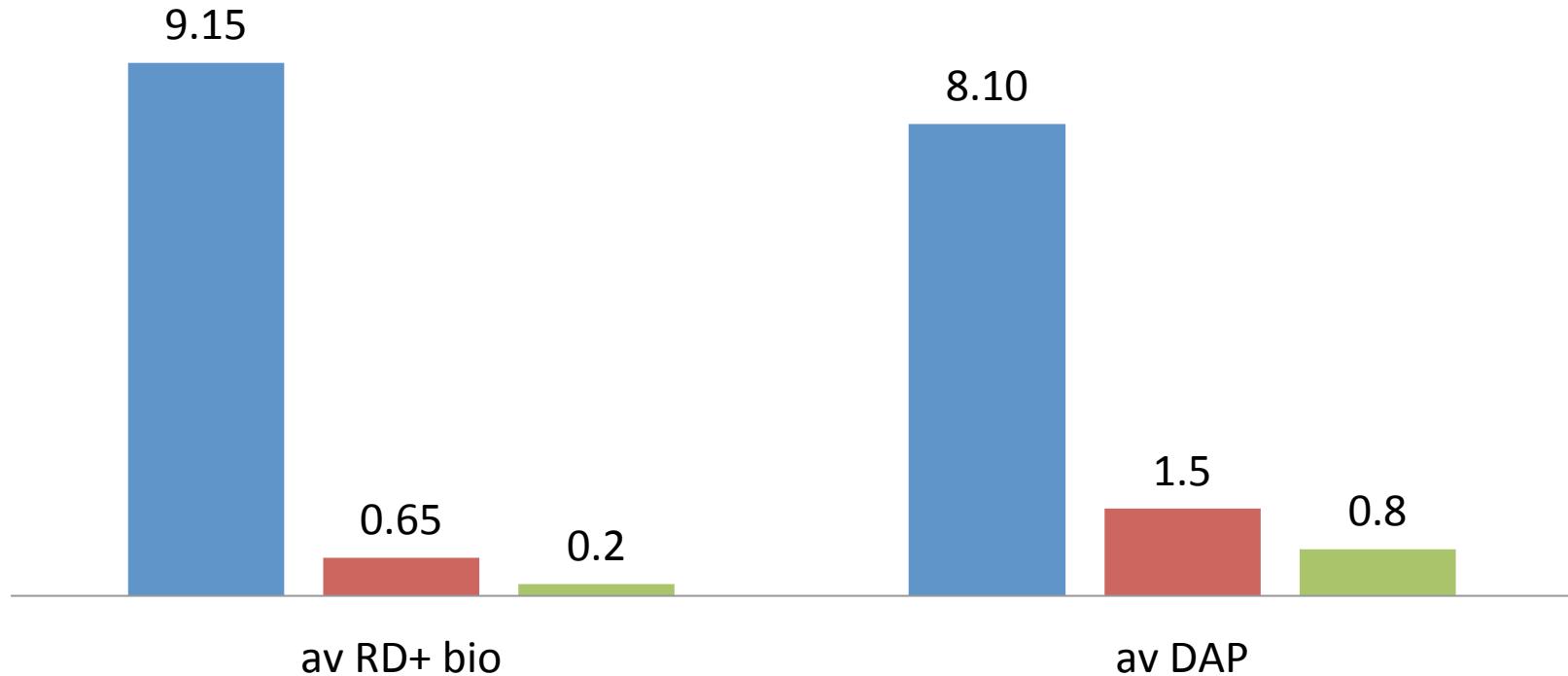


Case 2

ETHIOPIA, 2013 MAIZE

Corn Arsi Negele, Ethiopia

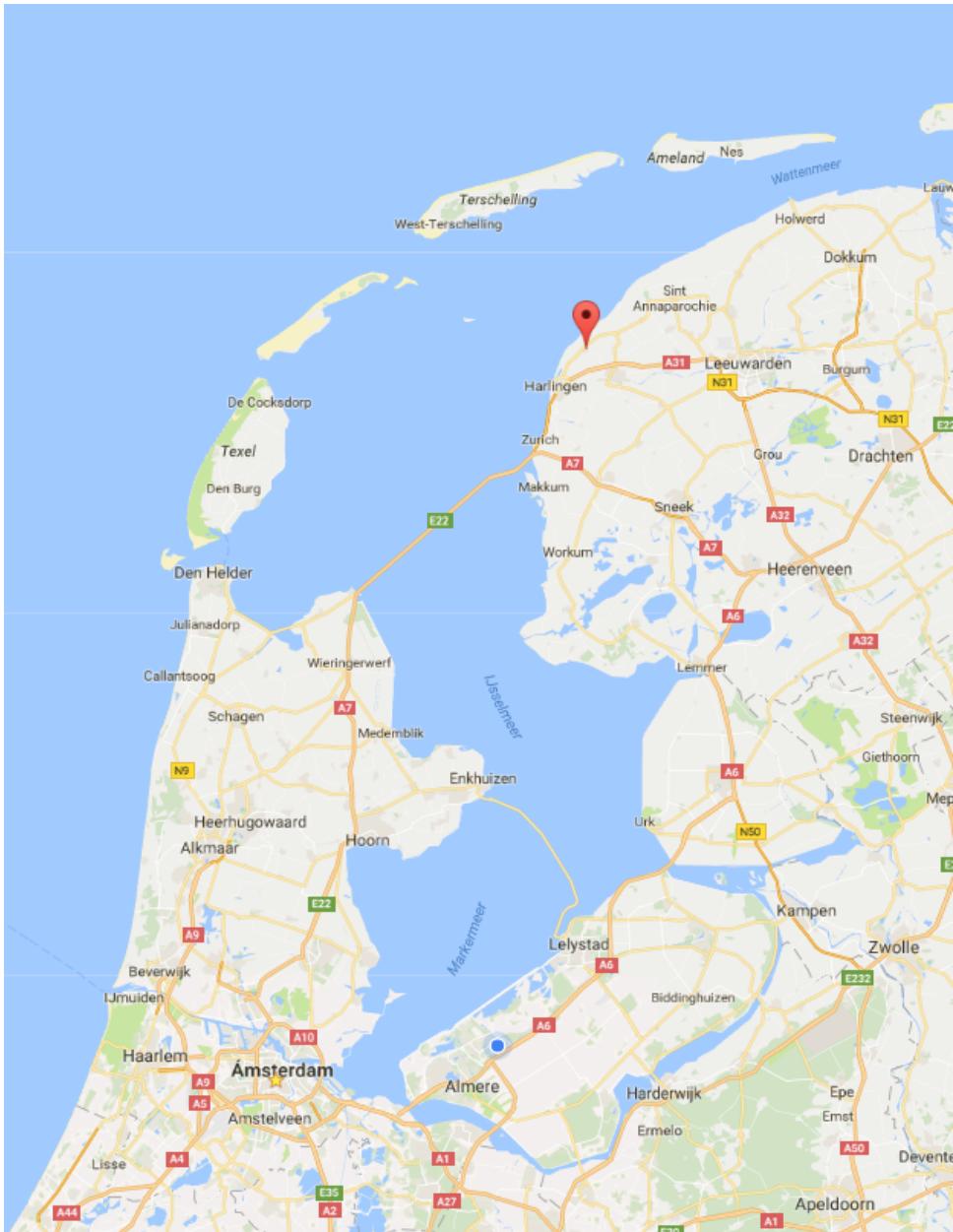
■ Yield [tons/ha] ■ Costs [birrx1000/ha] ■ Infected stalk





Case 3

HOLLAND, 2017 SUGAR BEAT

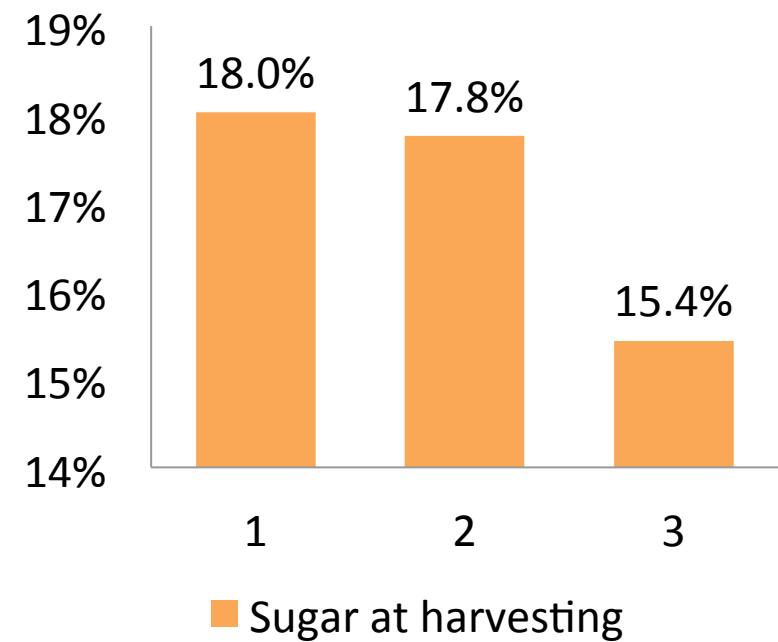
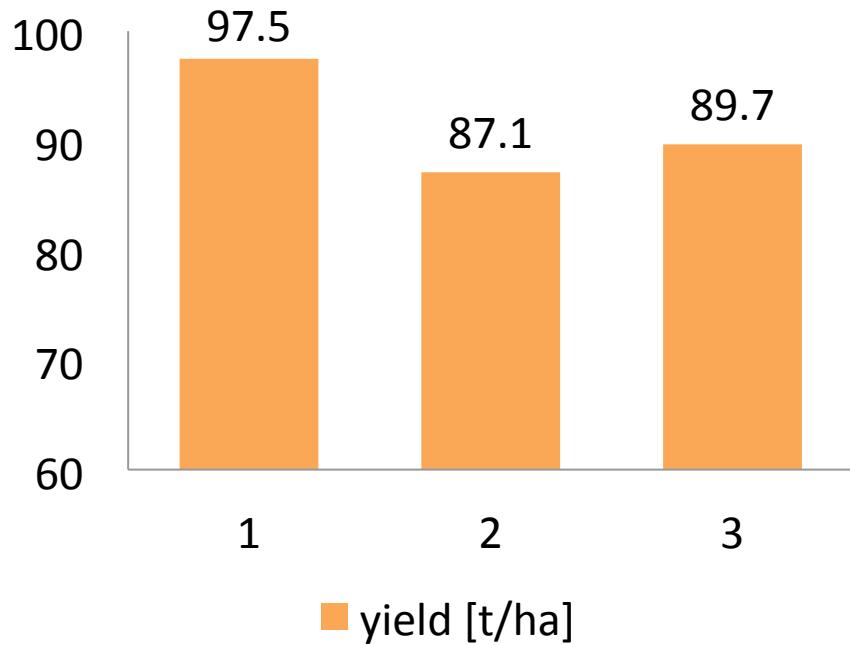




Farm test Fam. Jukema

	field 1	field 2	field 3
Fertilisation			
BIOF 1	x	x	
BIOF 2	x	x	
BIOF 3	x		
Pest and disease control			
disease	low	high	average
fungicide	no	yes	yes
herbicide	yes	yes	yes
insecticide	no	no	yes

Sugar beat Friesland







19/5/17



ROCKINSOILS



ROCKIN SOILS



Mulching with weeds and biofertilisers in coffee, Tanzania



Green manures and biofertilizers

More info:

Ruben Borge

ruben@rockinsoils.com

www.rockinsoils.com

[tel \(NL\): +31 \(0\) 618276460](tel:+31618276460)

ROCKINSOILS