

Improving competitiveness – Dutch approaches -

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3 x 15 Target year 2015 Sugar yield 15 ton/ha Cost-price 15 €/ton beet

Extra emphasis (1)

- Improving crop competiveness
 - SUSY: Speeding Up Sugar Yield
 - LISSY: Low Input Sustainable Sugar Yield

Confucius (551 – 479 BC) about learning:



"Tell me, and I will forget.

Show me, and I may remember.

Involve me, and I will understand."

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Extra emphasis (2)

- Technology exchange
 - Best Practices Growers Groups
 - Learning and communication styles
 - Electronic registration, incl. bench-mark

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Pairs study (SUSY)

- period 2006-2008 comparing top-class growers (high yield) with average growers
 - → top-class: from the best 25% of a region (period 2000-2004)
 - → average: difference in sugar yield with a plus farm of 1500 kg sugar per hectare or more

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Pairs study (SUSY)

🌞 project details

- farmers keep a cultivation and rainfall registration and fill in a cultivation survey
- extensive field research carried out by IRS, sugar industry (Suiker Unie), Blgg and Plant Research International

Pairs study (SUSY)

Field research (1)

- soil sampling (fertility, nematodes, rhizomania, soil resistance for rhizoctonia)
- soil penetration resistance
- investigating seedbed, seedbed preparation depth, drilling depth, emergence, plant counts, seed spacing, seed placement
- water infiltration capacity in the soil profile and air content in the topsoil

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Field research (2)

- date of canopy closing
- weed, bolter and leaf disease observations
- characteristics of the soil profile (including maximum rooting depth)
- harvest losses

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Pairs study (SUSY)

Some results of 2006 and 2007

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	Pairs study (SUSY) Heterodera schachtii infestation	
	Fields infested	not aware
<u>2006</u>	50%	42%
<u>2007</u>	62%	59%

*The infestation classification is not known by many growers. 90% of the surveyed growers did not sample the soil directly preceding the beet crop.

















Pairs study (SUSY)

Conclusion 2006

Sugar yield of 15 t/ha and a cost price of 15 €/ton is possible!!

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