

Reference: Agriculture and Gardening

Crop: Sugar Beet

Place of Cultivation: Denmark

Contact Person: Hans Andersen and Ole Walther



Purpose of the treatment: To test the effect of Terra Biosa on the cultivation of sugar beets. Especially if application of Terra Biosa contributed to a higher yield and at the same time could reduce the amount of fertiliser used.

Application pattern: The fields are sprayed in the evening – or at times when the fields for other reasons are humid – minimum 10 days before the seeding. The fields have to be harrowed directly before the beets are seeded. The beets are sprayed when they have reached a size of 4-5 cm and later again when the leaves are so big that they cover the soil. Terra Biosa simply gives more life to the soil.

Results: The effect was clearly on the leaves. They become almost dish formed. This results in an improved absorption of sunlight, which gives a bigger capacity to produce sugar. In addition, it is possible to cut down at least 20% on the fertilisers.

The treatment with Terra Biosa led to a significant yield increase. This is underpinned by the figures below that show an augmentation of the crop in both polysugar (table 1/figure 1) and tons of pure sugar beets pr. ha (table 2/figure 2) when Terra Biosa is used.

Year	Polysugar, tons/ha		
	O. Walther	H. Andersen	Avrg. factory
1996	7	7,7	7,96
1997	7,6	8,62	8,64
1998	8,07	9,38	8,15
1999	9,1	9,71	8,37
2000	9,88	10,02	9,06

Table 1. The sugar yield increase in the years 1996-2000 for Hans Andersen and Ole Walther, compared to the sugar factory's average. They started using Terra Biosa respectively in 1998 and 1999.

Pure sugar beets, tons/ha			
Year	O. Walther	H. Andersen	Avrg. factory
1996	40,5	43,9	46,1
1997	45,3	51,4	51,3
1998	45	54,6	47,7
1999	51,8	56,3	50,7
2000	54,7	57,1	52,3

Table 2. The yield of pure sugar beets in the years 1996-2000 for Hans Andersen and Ole Walther compared to the sugar factory's average. They started using Terra Biosa respectively in 1998 and 1999.

= Use of Terra Biosa

In summary:

- Compared to the sugar factory's figures the yield of polysugar has increased with respectively 26% and 19% when Terra Biosa has been used.
- Ole Walther and Hans Andersen have increased the sugar yield with respectively 26% and 19% using Terra Biosa.
- Ole Walther and Hans Andersen have gained a pure sugar beets yield of respectively 22% and 18% using Terra Biosa