

CROP : CAROTT – *NERAC*

Trial carried out in Belgium in 2004

SITE DETAILS

TRIAL N° : D/B/CAR/04/01	Crop information
3840 BORGOON	Variety : Nerac Sowing date : 13/05/04 Irrigation : No

APPLICATION

	Product	Dose rate	Date of spraying	Volume of water
Application N°1	AMINOFIT.Xtra	1,5 l/ha	16/06/04	300 l/ha
Application N°2	AMINOFIT.Xtra	1,8 l/ha	27/07/04	300 l/ha
Application N°3	AMINOFIT.Xtra	2,0 l/ha	22/08/04	300 l/ha

MATERIALS AND METHODS

Plot size : 4 ha
Trial design : 5 samplings per treatment on 1 metre long and one seed bed width.
Application method : Foliar spray
Equipment used : Farmers tractor mounted sprayer equipped with a 24 m wide boom
Assessments : Assessments are carried out on 100 carrots per sampling. Carrots were harvested manually, washed and dried.
The diameter and the length of every individual carrot are recorded. Carrots are sorted out by diameter and weighed.

DISCUSSION, CONCLUSION

Climatic conditions were not stressful during the progress of the trial.

Under these conditions, AMINOFIT.Xtra:

- increased the average length of the carrots,
- increased the average weight of the carrots,
- reduced the number of non marketable carrots,
- increased the marketable yield.

No visual effect was shown on the crop during the growing season.

RESULTS

NUMBER OF CARROTS PER DIAMETER								
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	Diameter 50	Total
AMINOFIT.Xtra	4,4	20,0	37,0	27,0	8,8	2,6	0,2	100,0
CONTROL	8,8	21,4	35,4	24,0	5,4	4,2	0,8	100,0

TOTAL WEIGHT OF CARROTS PER DIAMETER								
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	Diameter 50	Total
AMINOFIT.Xtra	92.8	892.4	2601.6	2961.8	1441.6	468.0	68.4	8526.6
CONTROL	149.6	848.0	2572.0	2793.6	773.2	794.4	132.8	8063.6

TOTAL WEIGHT OF MARKETABLE CARROTS PER DIAMETER								
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	Diameter 50	Total
AMINOFIT.Xtra	59.6	663.2	1733.6	2229.2	1101.2	354.4	68.4	6349.6
CONTROL	110.8	542.8	1799.6	1818.8	521.2	483.6	65.6	5342.4

Remarks : The unmarketable carrots are bent, misshaped or split.

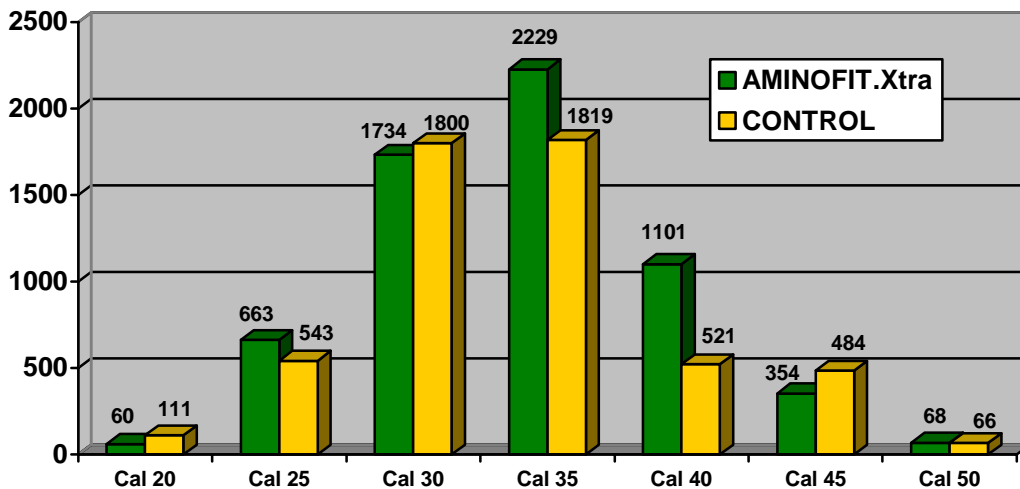
AVERAGE LENGTH OF THE CARROTS PER DIAMETER							
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	Diameter 50
AMINOFIT.Xtra	10.7	13.7	15.4	17.0	18.3	20.0	22.0
CONTROL	8.6	11.9	14.9	16.6	18.0	17.8	16.5

AVERAGE WEIGHT OF THE CARROTS PER DIAMETER							
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	All sizes
AMINOFIT.Xtra	19.6	44.4	70.2	109.9	168.6	188.4	85.3
CONTROL	16.8	39.5	72.7	117.6	146.3	184.3	80.6

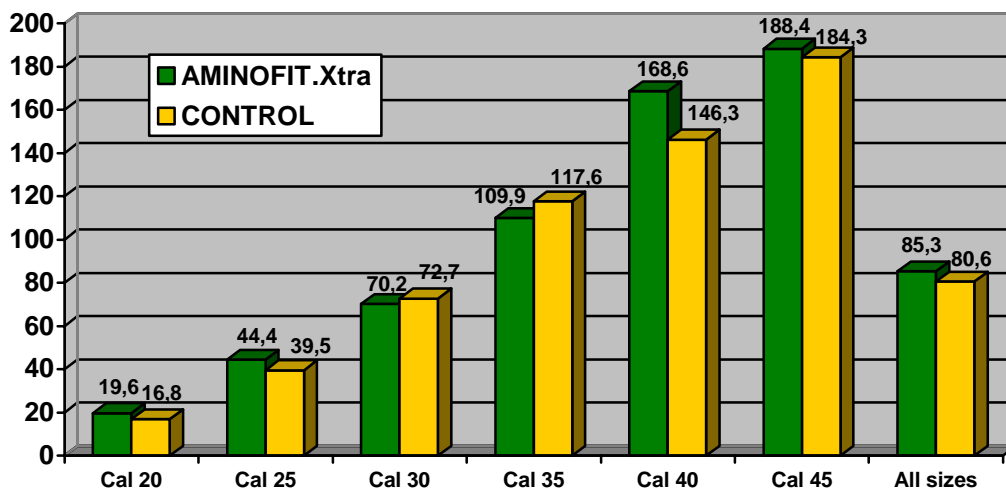
NUMBER OF MISSHAPED AND SPLIT CARROTS PER DIAMETER								
	Diameter 20	Diameter 25	Diameter 30	Diameter 35	Diameter 40	Diameter 45	Diameter 50	TOTAL
AMINOFIT.Xtra	1.4	5.2	10.6	6.6	2.2	0.6	0.0	26.6
CONTROL	2.2	7.2	10.2	8.6	1.8	1.6	0.2	31.8

GRAPHIC SYNTHESIS

Weight of marketable carrots per diameter



Average weight of the carrots per diameter



Average length of the carrots per diameter

