

CROP : MELON – *BUFFALO*

Trial carried out in France in 2002

SITE DETAILS

| Trial location | Crop information |
|--|--|
| 81700 PALLEVILLE South West of France | Variety : Buffalo Planting date : 03/06/02 Density of plantation : 21000 plants/ha Cultivation type: Open field Irrigation : Overhead sprinklers Soil type : Clay and silt |

APPLICATION DETAILS

| | Product | Dose | Application date | Crop stage on application | Volume of the mixture | Remarks |
|------------------|---------------|--------|------------------|---------------------------|-----------------------|-------------------------------------|
| Application N° 1 | AMINOFIT.Xtra | 5 l/ha | 28/05/02 | Pre planting | 20 l | Applied alone with backpack sprayer |
| Application N°2 | AMINOFIT.Xtra | 5 l/ha | 20/06/02 | Flowering | 250 l/ha | Applied alone |
| Application N°3 | AMINOFIT.Xtra | 5 l/ha | 09/07/02 | Bud formation | 250 l/ha | Applied alone |
| Application N°4 | AMINOFIT.Xtra | 5 l/ha | 25/07/02 | Thickening | 250 l/ha | Applied alone |

MATERIALS AND METHODS

Plot size : 6 m²
Trial design : 4 replicates
Application method : Foliar spray
Equipment used : Backpack sprayer equipped with a boom

DISCUSSION, CONCLUSION

The lots treated with AMINOFIT.Xtra produced significantly more melons than the control plots, at the end of the harvest there was a cumulated increase of 40% compared to the control. As a consequence, the yield increased with the same percentage.

AMINOFIT.Xtra has an influence on the calibre of the fruit since the percentage of melons of a higher calibre than 12 cm is 43% in the treated plots as compared to 38% for the control.

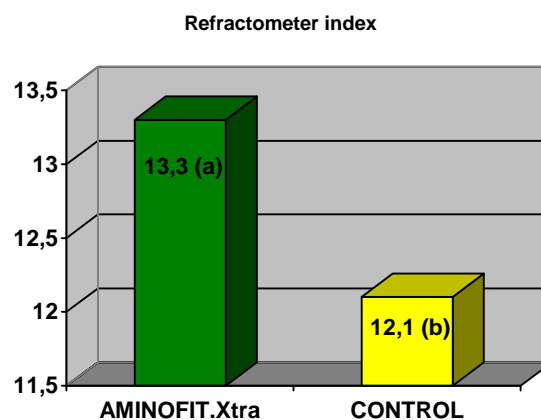
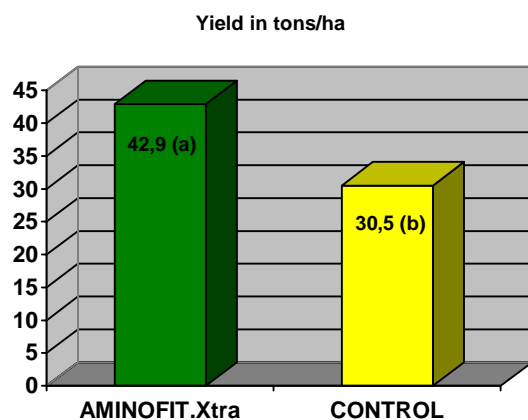
AMINOFIT.Xtra also has a significant action on the sugar content with an increase of + 9,3% as compared to the control.

RESULTS

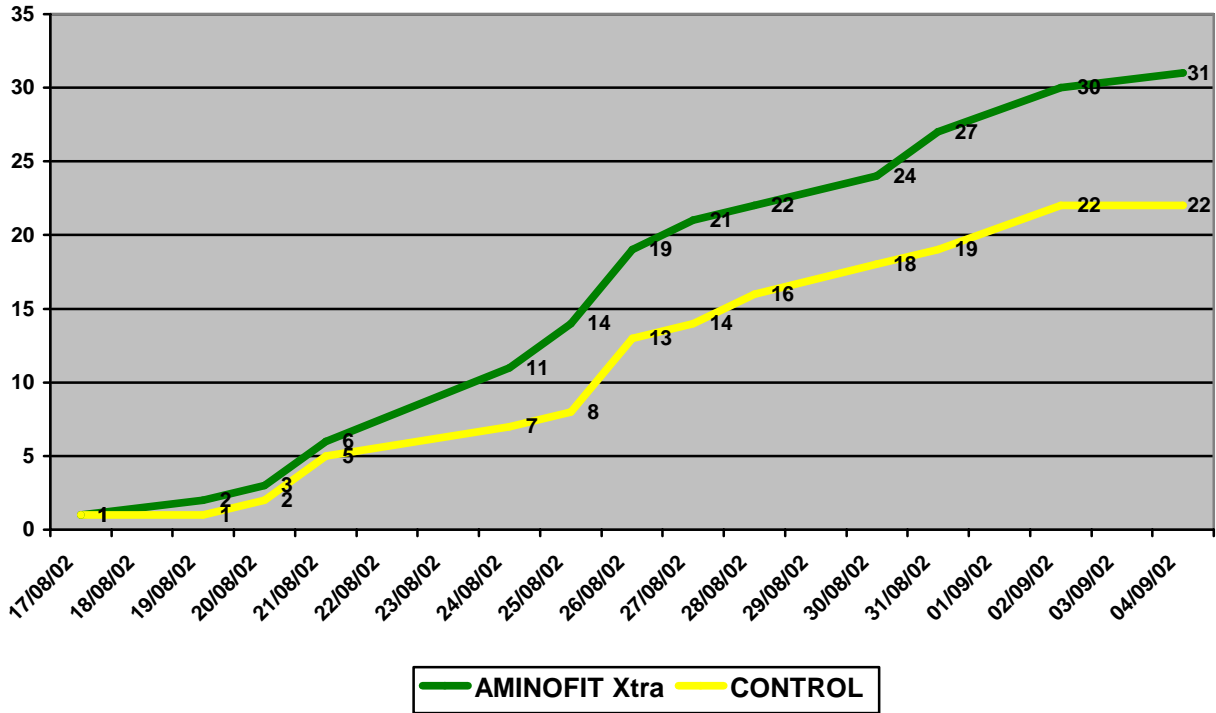
| Realization date | 04/09/02 = 41 days after the last application | | | |
|---------------------------------|---|---------------------------|-----------------|----------------------------|
| Crop stage | Harvest at Maturity | | | |
| Studied Parameter | Average weight of fruit in g | Cumulated number of fruit | Yield in ton/ha | Refractometer index (brix) |
| AMINOFIT.Xtra | 826 (a) | 31 (a) | 42,9 (a) | 13,26 (a) |
| CONTROL | 818 (a) | 22 (b) | 30,5 (b) | 12,13 (b) |
| % as compared to control | + 0,98 | + 40,9 | + 40,6 | + 9,3 |

| Realization date | 04/09/02 = 41 days after the last application | | |
|---------------------------------|---|--|--|
| Crop stage | Harvest at Maturity | | |
| Studied Parameter | Number of melons with diameter < 11 cm | Number of melons with diameter > 11 cm and < 12 cm | Number of melons with diameter > 12 cm |
| AMINOFIT.Xtra | 7,50 (a) | 10,00 (a) | 13,25 (a) |
| CONTROL | 5,50 (a) | 8,00 (a) | 8,25 (b) |
| % as compared to control | + 36,4 | + 25,0 | + 60,6 |

GRAPHS



AVERAGE CUMULATED NUMBER OF MELONS HARVESTED PER PLOT (6m²)



AVERAGE NUMBER OF MELONS PER CALIBRE (Diameter in centimetres)

