



Study of the volume and life of watermelons

1. "OBJECTIVE

The purpose of this study is to determine, for each type of treatment, the volume obtained from a specific amount of watermelons, the life of these by studying the amount of galacturonase present and the delay of maturation.

2. "SAMPLES

To carry out the study, we start from two different treatments applied on the same dates and on the same farm.

- The first of the samples (O), was treated with products of the company TÉCNICA NUTRICIONAL FOLIAR S.L.
- The second sample (X) was treated with unspecified products from another company (CONTROL).

	SAMPLE O (TNF)	SAMPLE X (control)
Calibre 1	1,5%	2,5%
Calibre 2	60%	42,5%
Calibre 3	37,5%	50%
Calibre >3	1%	5%
Kg per plant	35,64	34,34

3. "PREPARATION OF THE STUDY

To perform the study, approximately half of each watermelon is liquefied, leaving the other half exposed to room temperature to observe the rate of degradation. In this assessment we obtain the weight, volume of juice obtained and the Brix. The values obtained are the following:

	X	O
Total weight (kg)	5.82	6.235
Weight part to observe (kg)	2.9	2.68
Weight squeezed part (kg)	2.92	3.555
Juice volume (L)	1.251	1.74
Juice weight (kg)	1.28	1.78
Density (kg/L)	1.024	1.023

During the preparation of the samples, it is observed in sample O has a larger size, weight and amount of juice obtained. It is also observed that, at the time of cutting, this is clean and the pulp presents a low amount of seeds, both white and black.



From sample X, a smaller size and weight is observed. The cut becomes slightly more irregular and has a greater number of seeds in its pulp, most of them white.



