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## COMPARATIVE TEST OF REFERTIL and DUNG ACTION ON TOMATOES

During the 1980 farming year (transplantation on 10th May; third crop, 15th September), personnel of the TERSAN PUGLIA & SUD ITALIA S.P.A. carried out a comparative on tomatoes obtained from a REFERTIL and DUNG (cow manure) treatment. The Tomato quality used was "CHICO III" of the Clouse firm (F).

The test was performed at Mr. D'Attesi's farm which is located at "chiodi" in the Brindisi territory, Italy, on blocks that were randomized without repetition.

The parcels under observation (5 by 20 meters) were alternated with parcels (4 by 20 meters) in order that the two fertilizers would not interfere with each other.

In addition, a parcel that had been fertilized only with chemical fertiliser was taken as a testimony.

The crop under review followed itself (tomato upon tomato) .

In February, the seed-plot of the selected qualities was laid in tunnel. During March-April, work to prepare the soil we carried out and on 10<sup>th</sup> May the transplantation took place.

The properties of the soil were :

pH in water	= 7.86	(potentiometrical method)
N <sub>2</sub> tot	= 0.44%	(Kjeldahl method)
P <sub>2</sub> O <sub>5</sub> abs	= 0.13%	(colorimetrical method)
K <sub>2</sub> O exchange	= 0.14%	(photometrical method)
organic matter	= 0.56%	(oxidation-through moisture method)

The experimentation was made with REFERTIL, dung (cow manure) in conjunction with chemical fertiliser. During the whole vegetative cycle of the crop, irrigation cycles were run with the flowing procedure.

Manuring / fertilising was performed in the following way:

Parcel A	:	Refertil	q	13.5/ha				
		N <sub>2</sub>	U	60/ha	3	q	of	S.A.
		P <sub>2</sub> O <sub>5</sub>	U	70/ha	3.5	q	of	P.M.
		K <sub>2</sub> O	U	100/ha	2	q	of	S.P.
Parcel B	:	Dung	q	500/ha				
		N <sub>2</sub>	U	60/ha				
		P <sub>2</sub> O <sub>5</sub>	U	70/ha				
		K <sub>2</sub> O	U	100/ha				
Parcel T	:	N <sub>2</sub>	U	60/ha				
		P <sub>2</sub> O <sub>5</sub>	U	70/ha				
		K <sub>2</sub> O	U	100/ha				

