



CENTER FOR PLANT NUTRITION



ORGANIC FERTILIZATION

USEFUL INSTRUMENT IN CONVENTIONAL, BIOLOGIC AND INTEGRATED NUTRITION OF HORTICULTURAL CROPS

The following file was realized to analyze and compare productive results in cabbage plants, obtained through the use of mineral fertilizers and organic fertilizers of vegetal origin.

Goal: verify compatibility of a new product, with agricultural productive schemes (conventional, integrated and biologic administration). **VEGAND®** is a 100% vegetal fertilizer which combines selected vegetal materials useful for organic nutrition, specialized for horticultural plants and trees.

VEGAND®

VEGETAL FERTILIZER

CHART N.1

The chart represents the productivity of 12 samples of cabbage, obtained through 100% vegetal organic fertilization (**VEGAND®**, distribution 650Kg/ha); other varieties, shown in different colours, are 4 types of fertilizers with root application that are useful to improve plant rooting after transplant.

CHART N.2

The chart represents the productivity of 12 samples of cabbage, obtained through mineral fertilization; 26 Nitrogen units were used. Other alternatives are 4 types of fertilizers with root application, useful to improve plant rooting after transplant. Column charts show the final weight of edible product during harvest. The red line specifies the average weight of the blank (non-fertilized sample).

Transplant: 02/08/2017

Sample collection: 06/10/2017

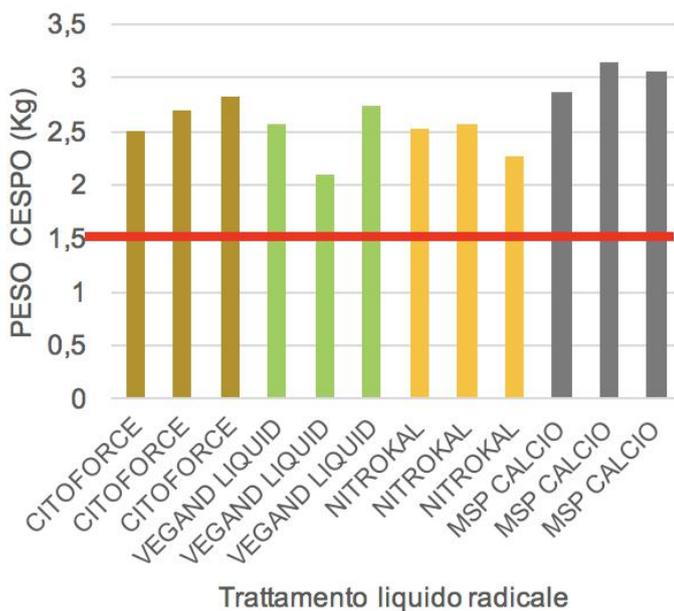


ANALYSIS

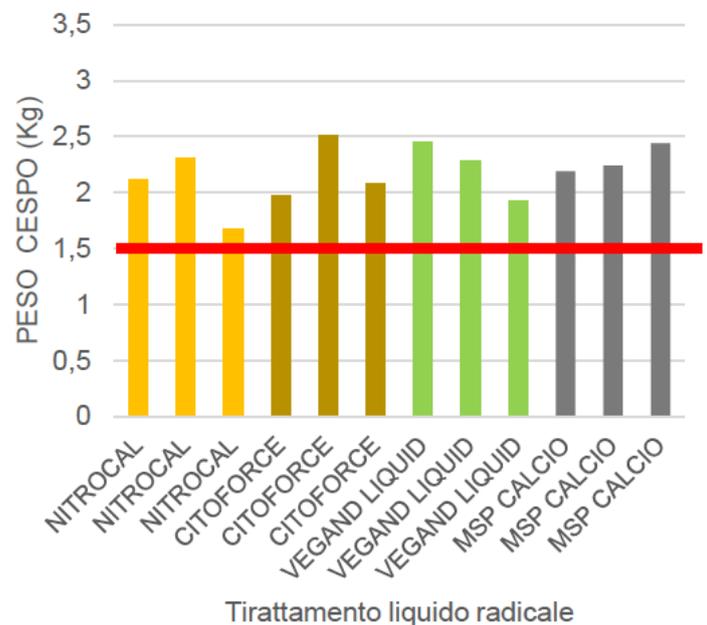
Data show that organic fertilization determines results that are comparable to mineral fertilization (traditional synthetic fertilization). In certain cases, **VEGAND®** achieves better productive results than the mineral product.

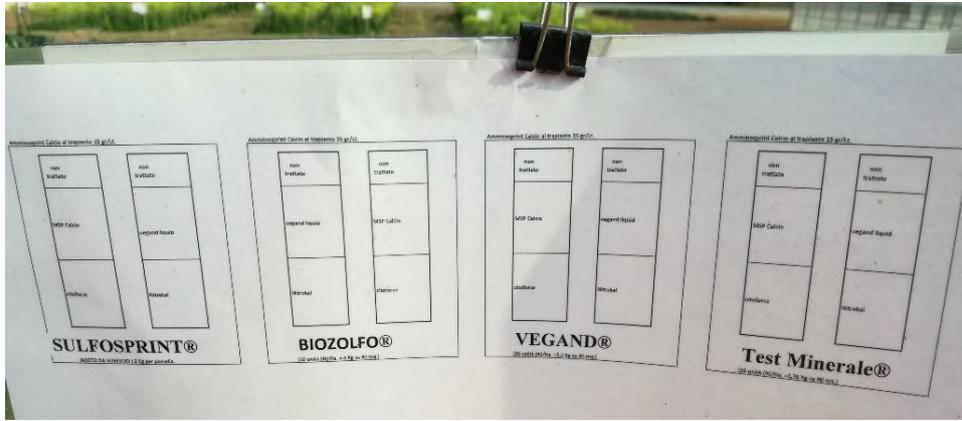
Average data underline that the use of an organic fertilizer in basic fertilization reduces nutrient leaching. By improving nutrient efficiency of use, there is a remarkable improvement to integrated productions.

Graf 1 - Fert. di Fondo
VEGAND 26 unità (N)/Ha



Graf 2 - Fert. di Fondo
Minerale 26 unità (N)/Ha





1. Experimental scheme



Pictures are representative of the most important stages of field tests. Length of the tests: 76 days, from transplant (open field) to harvest of all plants. Above-average seasonal temperatures have allowed an early harvest (1 week earlier).

The test has been done on a gritty soil. Average amount of organic matter and nutrients. Sprinkler irrigation (up to 10 days after transplant).

2. Random sampling

OUTCOMES:

We recommend VEGAND® distribution before transplant; it can be used alone (organic N 4%) or with traditional synthetic fertilizers. VEGAND® releases Nitrogen gradually, reducing leaching and decreasing soil porosity.



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3. Morpho-metric measuring