


“VEGELI TECHNOLOGY” & SEED ENHANCEMENT



**Newly developed technology
provides the best for the
growers of organic seed**



Humic substances and seed enhancement



Humic substances (humic and fulvic acids) and seed enhancement

- Humic and fulvic acids and their salts (humates) possess a phytohormone-like physiological activities, contain valuable plant nutritional substances. Humates can be utilized as soil conditioners, and soil supplements under various conditions and climates.
- Humates are natural products and have no external chemical additives.





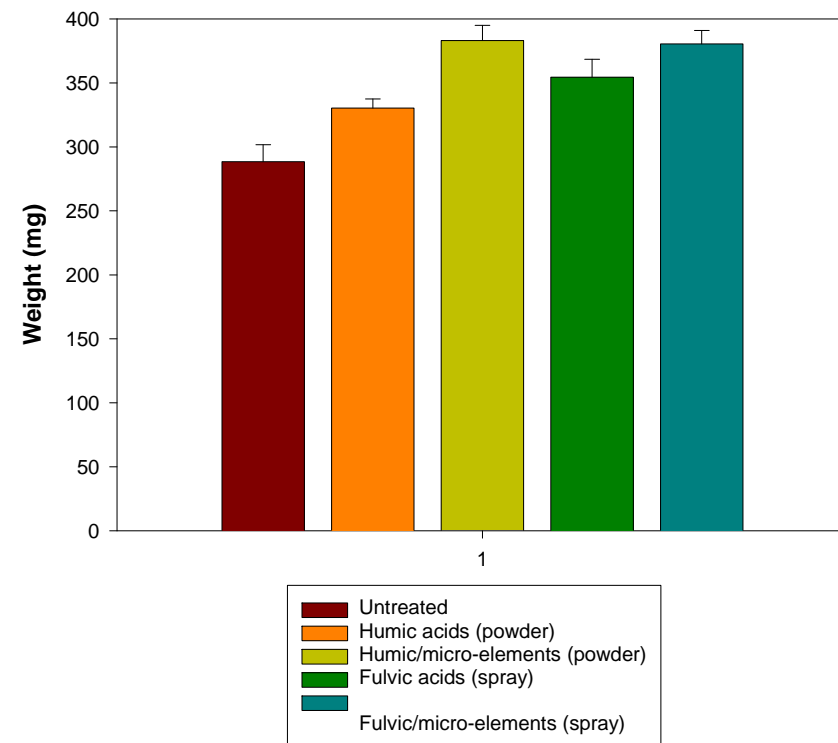
Treating the seed with the humic substances is beneficial.

It allows consumers to avoid or decrease usage of artificial chemical protectants (e.g fungicides, etc.)

The of trials : 1998- 2004

Seed performance in our trials was improved by single or combined treatments of seeds with the infrared light, natural organic and mineral substances.

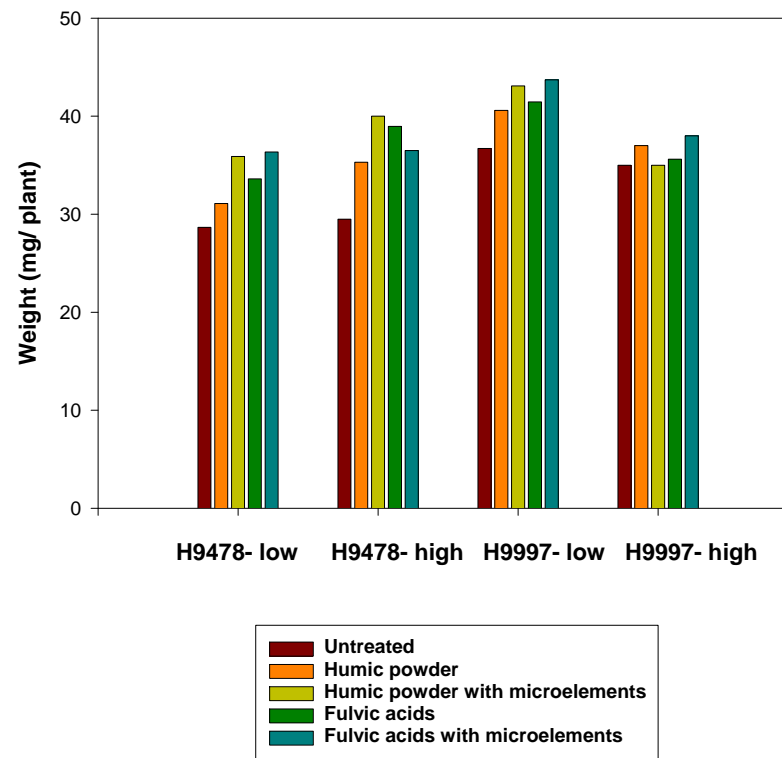
FRESH WEIGHT OF TOMATO, April 02
(H9478, low germ., 19 days old plants)





Trials at *HEINZ SEED*: Dry weight of tomato plants:

Dry weight of 20 days old plants of Heinz tomatoes, trials of April 2002





**The development of new
equipment for seed
enhancement with natural
factors**



Vegeli Seed Treater (VISTer)

VEGELI TECHNOLOGY designed a special seed treatment machine—the Vegeli Seed Treater (VISTer) that can be easily used by seed growers and farmers. VISTer is equipped with a hopper placed above the conveyor belt (or the groove) and a heater for drying the seed.





HMP— Humate- Mineral Powder

- Dry seeds of vegetable crops can be coated or pelleted with “humate-mineral powder”. HMP is prepared by mixing humates with some water-soluble minerals



HMP- ways of application

- HMP may be applied to the seed, mixed with rhizobia, may be applied directly to soil, either in the furrow or below the seed, or may be watered onto the soil at or after planting.



Mixing drums

- A stainless steel or powder coated steel drum can be adopted for seed coating with HMP





Wheat and Rice seed coated with the Humate- Mineral Powder:

Wheat



Rice





Maize: trials at “NC + Organics” (Lincoln, Nebraska, USA), 2002



Untreated corn



Treated corn

The pictures were kindly presented by Andrew Vrbka
of *NC+ Organics*

HMP and Seed Pelleting

- The lettuce seeds pelleted with using of humate- mineral powder:



**VEGELI
Technology:
the recent
trials of
2005- 2008**



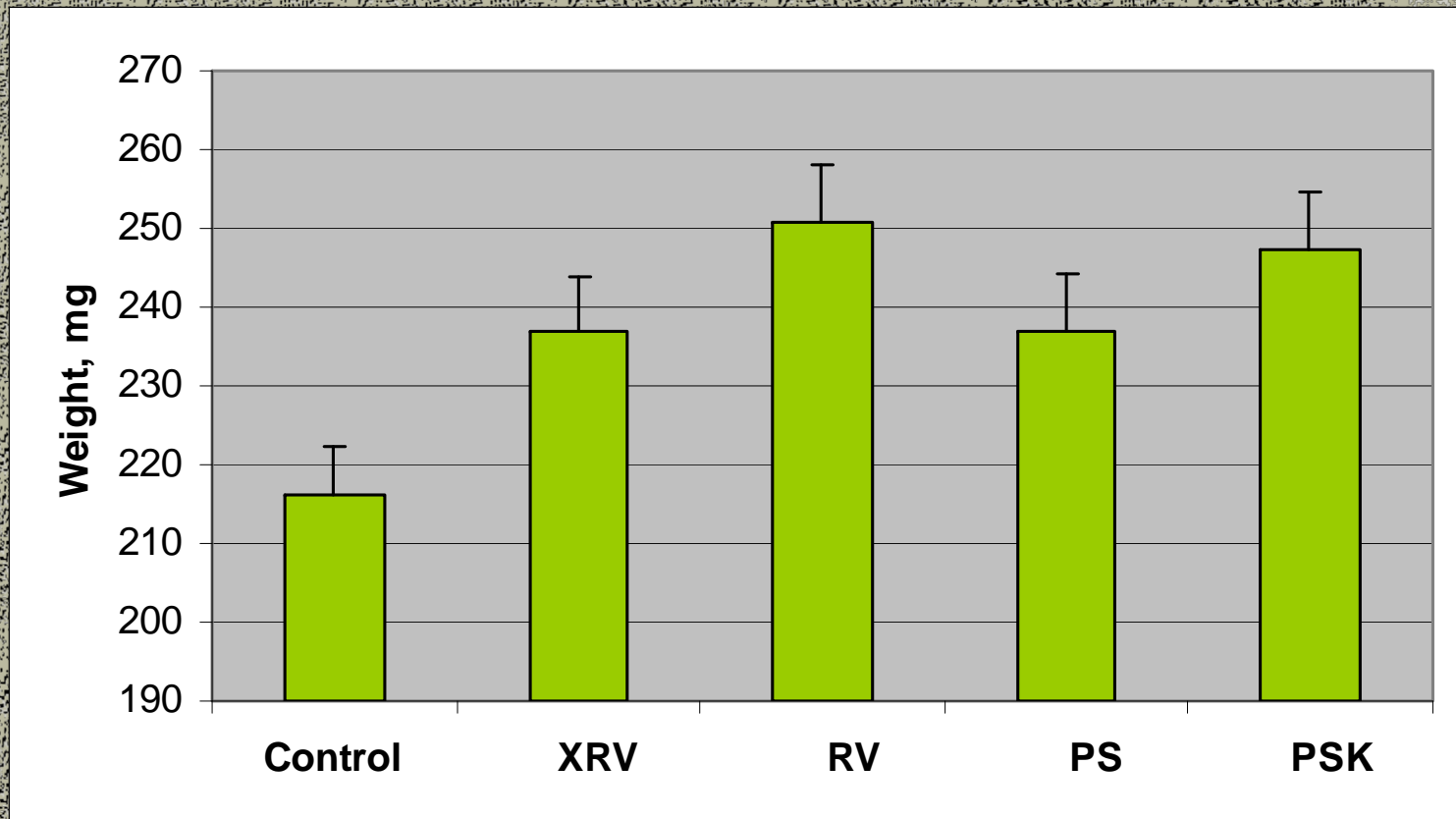
The treated lettuce and pepper seeds germinated and grow much faster than untreated ones:

- Treated seeds produce 5-15% more healthy plants than untreated (control) and greater biomass accumulation.





LETTUCE “RZ”, fresh weight of two weeks old seedlings (mg):

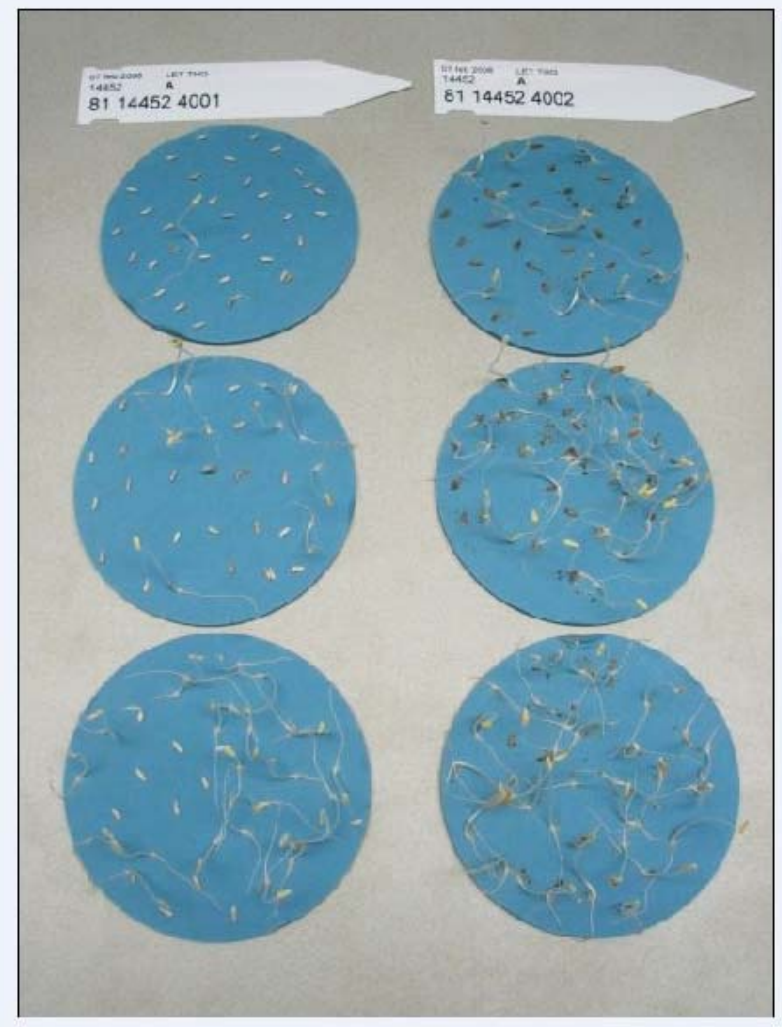


VEGELI treatments improve the performance of lettuce germination caused by secondary (temperature-related) dormancy (left- untreated, right-humate treated):

30- 32 degree C --

28- 30 degree C --

26-28 degree C --





The germinated seed of green pepper (the seedlings are two weeks old): the visual difference between control (untreated) seeds (left) and treated seeds (right) is visible.





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