



**U- MATE INTERNATIONAL, INC**

# **Culiacan, MEXICO**



**The presentation of Humate  
and it's benefits to the local  
growers of tomato and sweet  
pepper plants**

# What's "Humate"?



- Highly heterogeneous mixture of lignite-like organic material, along with small amounts of humin, clay, and silicates.
- Originates from the diagenesis of terrestrial, marine, or lacustrine organic matter.
- 60 – 90% humic and fulvic acids
- Est. U-Mate reserves:  
10 M tons



Unprocessed humate at mine located at Gallup, New Mexico USA

# New-Mex U-Mate® OMRI Listed



## OMRI Listed®

The following product is OMRI Listed. It may be used in certified organic production or food processing and handling according to the USDA National Organic Program Rule.

**Product**  
New Mex U-Mate®

**Company**  
U-Mate International, Inc.  
Mr. Dennis Yellowhorse  
P.O. Box 4131  
Scottsdale, AZ 85261

**Status**  
Allowed

**Category**  
Humates

**Issue Date**  
21-Jul-99

**Product number**  
umi-9053

**Class**  
Crop Fertilizers and Soil Amendments

**Expiration Date**  
01-Sep-2012

**Restrictions**  
Not applicable.

*Peggy Mians*

Executive Director

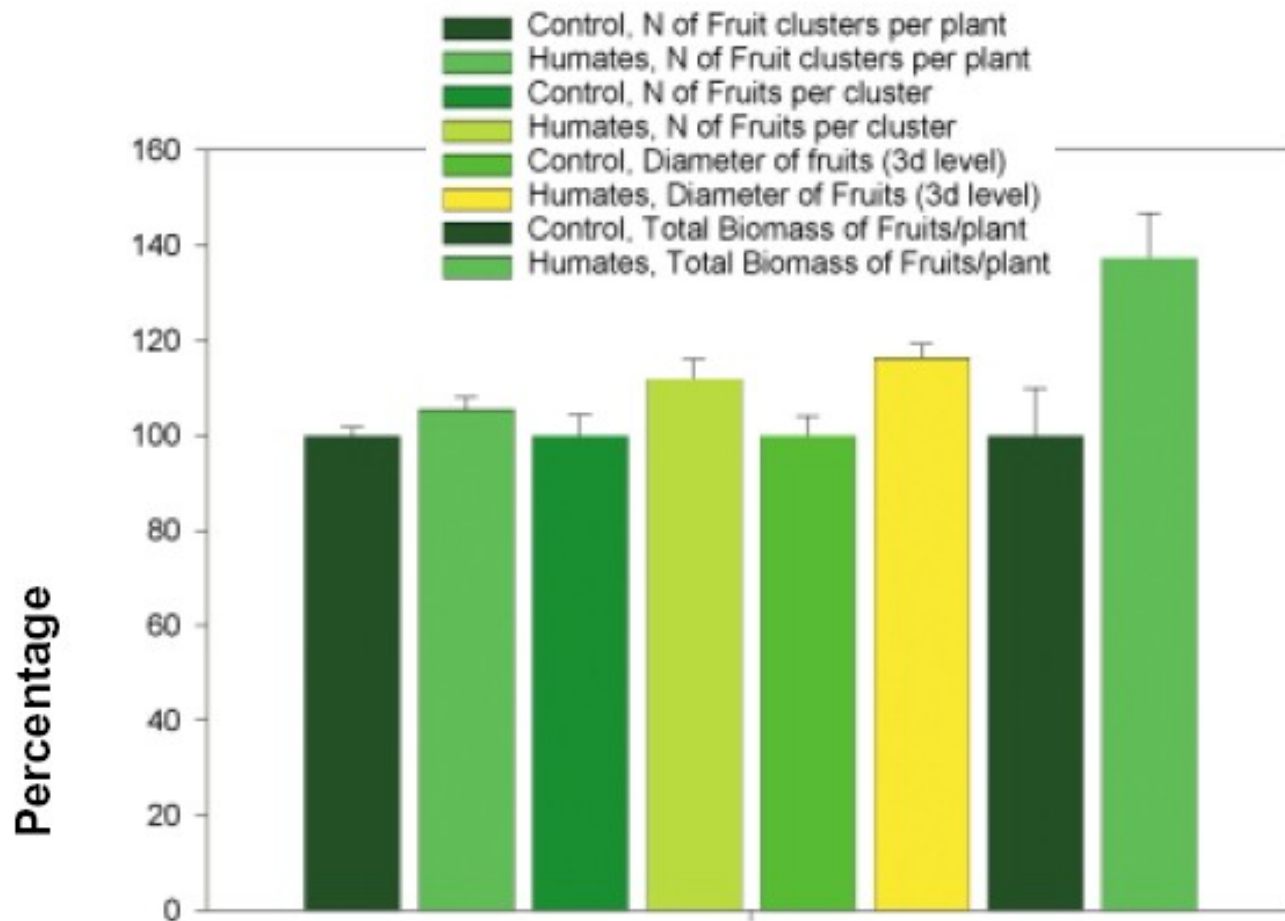
Product review is conducted according to the policies in the current OMRI Policy Manual and based on the standards in the current OMRI Standards Manual. To verify the current status of this or any OMRI Listed product, visit the most current version of the OMRI Products List at [www.omri.org](http://www.omri.org). OMRI listing is not equivalent to organic certification and is not a product endorsement. It cannot be construed as such. Final decisions on the acceptability of a product for use in a certified organic system are the responsibility of a USDA accredited certification agent. It is the grower's responsibility to properly use the product, including following any restrictions.

**OMRI**  
Listed

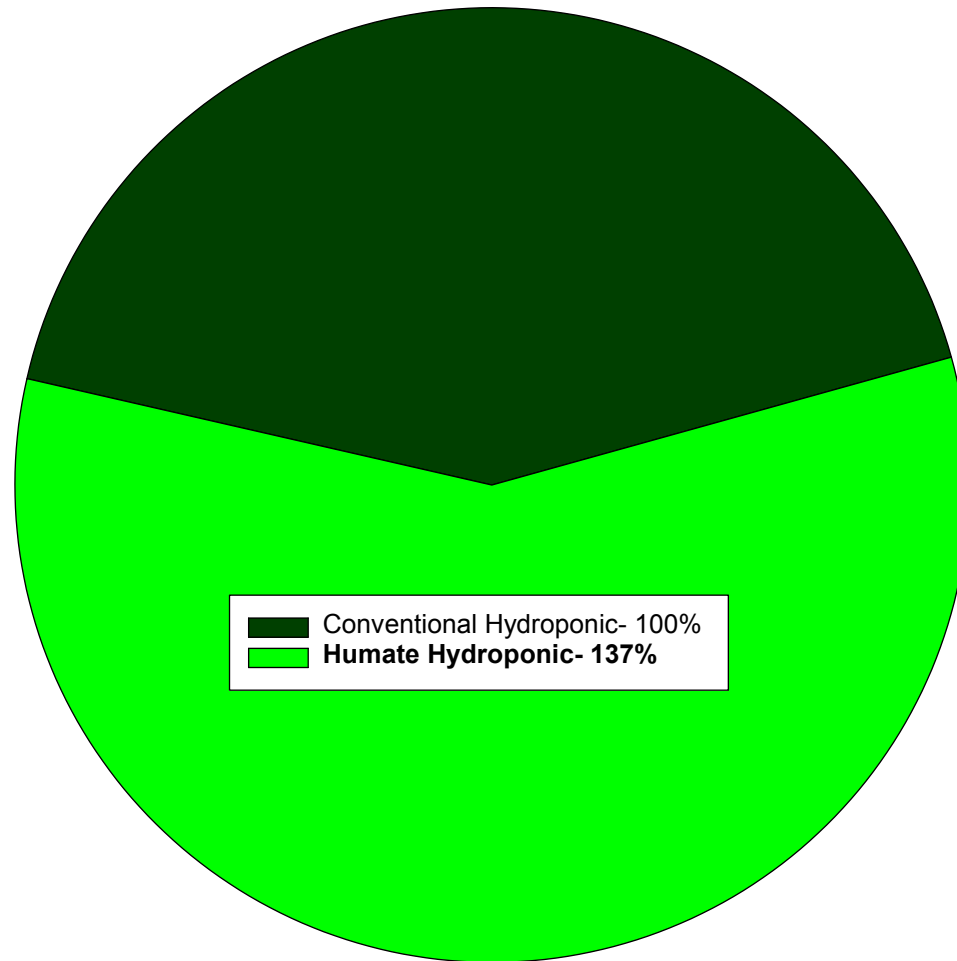
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# Application of Humate with NPK and micronutrients in hydroponics for growing tomato plants stimulated their growth and increased yield

Effect of humate on yield of tomato 'Rhapsody'



**The Hydroponic based on Humate Application  
Gives up to 37% Savings to the Growers:**





**Rene Castaneda (left) with Dennis Yellowhorse,  
President of U-MATE International Inc.**

# Greenhouses



# “Roma” Tomato













# Vines of tomatoes and soil in the greenhouse



# Soil in the tomato greenhouses











# **A sample of clay soil from the tomato greenhouse:**



# Dr. Vladimir Vasilenko and Dennis Yellowhorse





# Tanks with nutrient solutions for growing tomato and red pepper:



# Tank withy Sulphuric Acid (to adjust pH of nutrient solution)



# Tank with a nutrient solution of Potassium Chloride, Calcium Chloride, Urea and Microelements:



# Corn field





# Water irrigation of the corn filed:







# Near a pile of compost (*bocaccio?*)



# The compost:



# Cultivator-Applicator of fertilizers and compost:



# Soil before and 2 years after an application of compost:

Before:



After:



# CONTACT INFORMATION:

U-MATE



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