

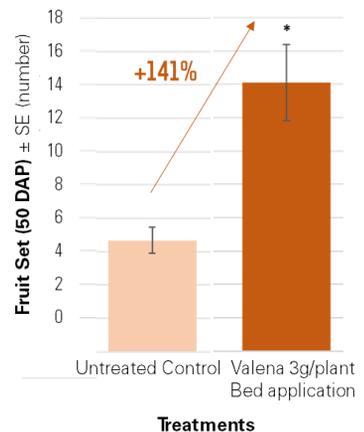


FERTILIZER

# HIGHER GRAPE TOMATOES MARKETABLE YIELD WITH VALENA™

## BENEFITS OF VALENA

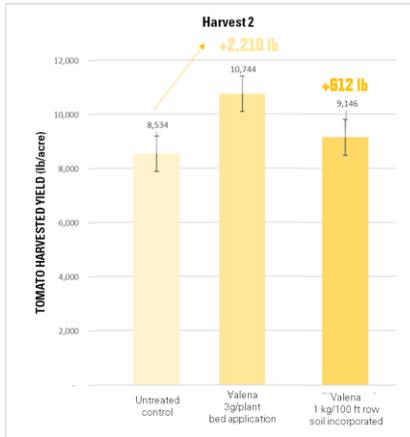
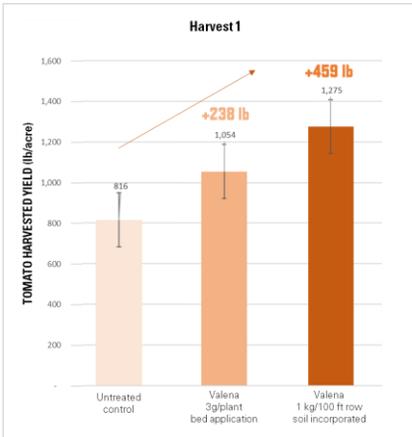
- Sustainable and environmentally-friendly microalgae-based soil technology for thriving plant growth
- Effective soil treatment for commercially-grown grape tomato transplants
- Helps increase field-grown tomato marketable yield.



141% INCREASE IN THE AVERAGE FRUIT SET AT 50 DAP WITH VALENA TREATED TOMATO OVER THE UNTREATED CONTROL

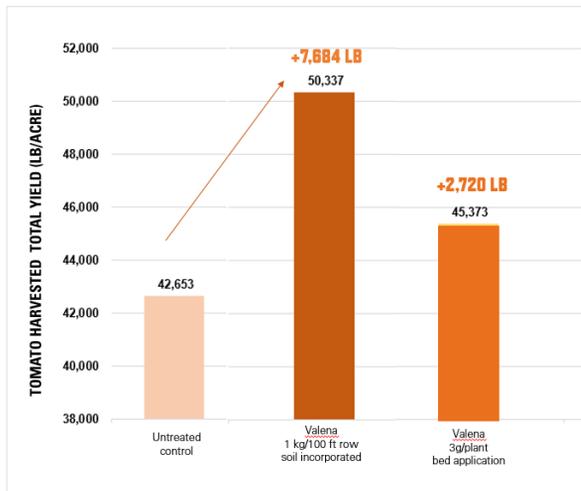
# VALENA™ PROVIDES HIGHER YIELD AT FIRST HARVESTS

Commercial tomato growers look for marketable yield at early harvests to satisfied year-round demand, while they could get higher prices for more profitable farming. Growing tomatoes with Valena could help achieve that!



UP TO +2,210 LB AT SECOND HARVEST WHEN TOMATOES ARE TREATED WITH VALENA COMPARED TO THE UNTREATED PLANTS!

## VALENA HELPS INCREASE TOTAL TOMATO YIELD / ACRE\*



FIELD BROADCASTED VALENA INCREASED THE TOTAL TOMATO YIELD BY 18% AND PRODUCED 7,684 MORE POUNDS THAN THE UNTREATED CONTROL.

Even though tomato producers may have the best quality transplant, high yielding tomato plant variety and healthy soil, a grower must apply nutrients regularly to ensure maximum yields of quality produce. To assist in achieving a greater marketable yield, our crop management tip is to make sure the soil and growing environment contains Valena, so the soil is primed to help the plant uptake the available nutrients and produce high-quality tomato possible.

Source: TL-19-17083. Commercial grape tomato transplants field-grown following standard farming practice. The height, branching, flowering, fruit set and total yield were measured at different data points 21, 50, 105 DAP.

\*Tomato transplants were treated by applying either Valena at 3 grams per bed placed in the bottom of the hole prior to planting or broadcasted at 1 Kg/100 linear ft row, equivalent to 68 kg / acre (rate calculated based on this specific trial).

**Always read and follow label directions.** Valena is not registered, or authorized for sale in all states. Certain statements may not be applicable in all geographic regions. Product labeling and associated claims may differ based upon regulatory requirements. Consult your Kemira representative or your state regulatory representative for approval of this use in your state, specific applications and labeling. For non-emergency Kemira product inquiries, please call Customer Service at 1-800-752-2864 between the hours of 7 a.m.- 4:30 p.m. Central Standard Time. Monday - Friday.

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## ABOUT VALENA

- Dry granular fertilizer
- Derived from Kemira proprietary strain of whole dried cell *Euglena gracilis* unicellular algae rich in paramylon (50%)
- Paramylon: Large carbohydrate storage molecule made up of linear chains of unique 1,3-β-glucan favorable for plant growth.

## GUARANTEED ANALYSIS

- Beta-glucan ≥50%
- Total Nitrogen (N) ≥2%
- Total Phosphorus (P<sub>2</sub>O<sub>5</sub>) ≥1%
- Total Potassium (K<sub>2</sub>O) ≥0.2%

## SMART MODE OF ACTION

Valena primes the soil by breaking down and releasing 1,3-β-glucan viewed as a Pathogen-Associated Molecular Patterns (PAMPs) by the plant's cells. Consequently, the plant elicits its defense responses and increases nutrient uptake to fight off potential pathogens. However, with no real threat, this leads to thriving growth.

## DIRECTION FOR USE

- **Sites:** Tomato transplant beds or field.
- **Rates:**
  - **Transplant bed treatment:** 3 g/plant
  - **Broadcast:** 68 kg/acre (or 1 kg / 100 linear ft row)\*
- **Application methods:**
  - **Bed treatment:** Incorporate the desired amount into the bottom of the bed prior to transplanting
  - **Broadcast:** Thoroughly top dress onto the soil surface of traditionally pre-formed beds. Cover the beds with plastic mulch. Create holes in the plastic mulch to transplant the tomatoes. Proceed with standard drip irrigation and fertilization practices.
- **Timing:** One application/season
  - **Transplant bed treatment:** At field transplanting
  - **Broadcast:** Prior to planting.