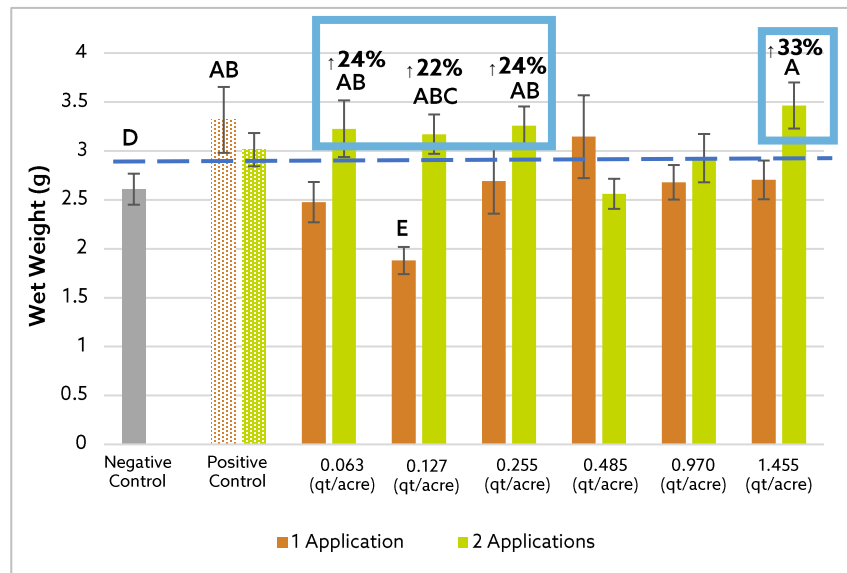


POSITIVE EFFECTS OF VALENA™ FLOW ON YOUNG GREENHOUSE STOCK PLUGS

BENEFITS OF VALENA FLOW

- Application of Valena FLOW once or twice during the plant growth cycle significantly improved the growth of young greenhouse stock plugs.
- Two weeks following application of Valena FLOW both impatiens and vinca had clear visual enhancements and increases in number of flowers.
- Young crops are sensitive and responded well to low and high rates of Valena FLOW.
- Incorporating Valena FLOW into a greenhouse nutritional program can help increase plant quality and enhance yield.



VINCA WET WEIGHT (g) AFTER TWO APPLICATIONS

TWO APPLICATIONS OF VALENA FLOW ON VINCA SHOWCASED SIGNIFICANT WEIGHT IMPROVEMENTS OVER THE NEGATIVE CONTROL, WITH SEPARATION BEGINNING AT THE LOWEST TREATMENT RATE.

GREENHOUSE TRIAL ON IMPATIENS & VINCA

GOAL: DETERMINE VALENA FLOW APPLICATION RATES AND TIMING FOR OPTIMAL PLANT HEALTH AND RESPONSE ON YOUNG PLUG CROPS

FEATURES & BENEFITS

Unique proprietary blend of 1,3-β-glucan from Kemin's strain of microalgae *Euglena gracilis*, enriched with zinc micronutrient sourced from zinc oxide

- Liquid flowable suspension
- Foliar spray application
- Designed to be used as part of a nutritional program
- Compatible with other crop inputs
- Approved for use on all crops and plants
- No phytotoxicity observed when used at label rate.

GUARANTEED ANALYSIS

• Zinc (Zn)2.0%
Derived from Zinc Oxide

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

ACTIVE INGREDIENT:
1,3 beta-glucan.....32%
Derived from the fermentation of *Euglena gracilis*
TOTAL OTHER INGREDIENTS: 68%
(Inert as non-plant food ingredients)

DIRECTIONS FOR USE

- SHAKE VIGOROUSLY BEFORE USE
- MUST BE DILUTED IN WATER

Suggested rates: 0.063-0.25 qt/acre

Application method: Foliar Spray

Recommended timing:

- Apply from the first 2-4 fully unfurled true leaves
- Use early and at the beginning of each growth stage, allowing for 2-4 weeks to pass between each application
- Avoid spraying under hot conditions (>90 °F or 32 °C), or when directly exposed to sunlight
- Avoid application if heavy rainfall is anticipated. Applying the product immediately after irrigation or rainfall may facilitate effective foliar uptake.

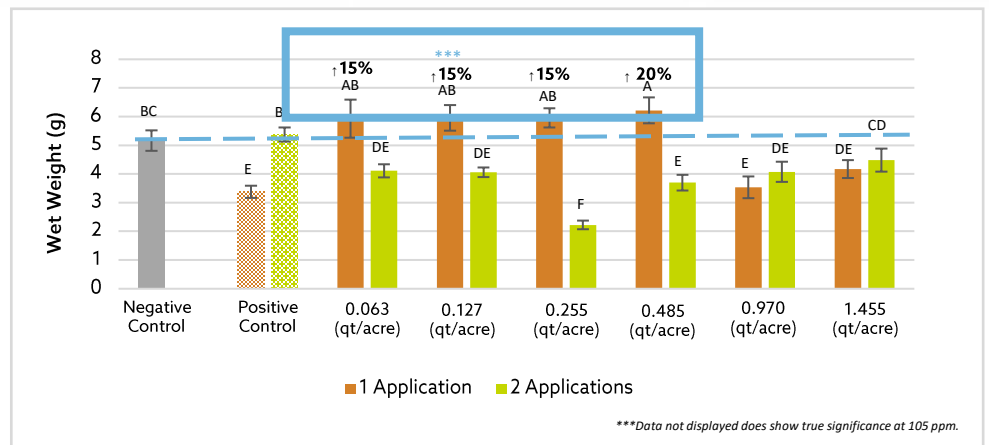
LOCATION: Kemin's Greenhouse, Des Moines, IA • **PLANT VARIETIES:** Deep Pink Accent impatiens, Cora Red Classic vinca • **DESIGN:** Seeds were sown in soilless media in 72-square, deep well plug trays. Temperatures were set to maintain 67-80 °F through opening and closing of the automated vent system. All plants were watered daily and fertilized weekly beginning ~4-6 weeks after germination. 72-well trays were randomly labeled and arranged then subsequently sprayed with the corresponding treatment rate of Valena FLOW until run off. Sampling occurred 2-weeks after each application where wet weight (g) was recorded • **TREATMENTS RATES :** Negative Control: No treatment; Positive Control: Liquid Seaweed; Valena™ FLOW (ppm of β-glucan): 52, 105, 210, 400, 800, 1200 • **APPLICATION METHOD:** Foliar application. Standard 1-gallon pressure-based spray applicator was used for all Valena FLOW applications. First application when seedlings have developed 2-6 true leaves. Then two weeks after the first application. **NOTES:** All treatment rates were applied to three separate 72-well trays for the first time, then following a two-week growth period plants were sampled and then 24 h later all treatment rates were applied a second time to two of the initial three trays for each treatment rate. (Impatiens were treated once or twice, and Vinca were treated once, twice, or three times) • **DATA COLLECTION:** Wet weight, root crown to leaf tip, root crown to apical meristem, number of branches, number of leaf, dry weight were measure at 14 DAT.

IMPACT OF VALENA FLOW TREATMENT ON VINCA



INCREASED FLOWER DEVELOPMENT AND FULLER LOOKING PLANTS WHEN VINCA ARE TREATED WITH VALENA FLOW COMPARED TO UNTREATED PLUGS.

IMPACT OF VALENA FLOW TREATMENT ON IMPATIENS



IMPATIENS WET WEIGHT (g) AFTER TWO APPLICATIONS

ONE APPLICATION OF VALENA FLOW ON IMPATIENS HAD THE BEST IMPROVEMENT OVER THE NEGATIVE CONTROL, AND SIGNIFICANT INCREASE IN GROWTH WAS OBSERVED AT THE 0.125 QT/AC RATE.



CONTACT YOUR SALES REP TODAY!

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