

# BioNik<sup>TM</sup>

PLANT GROWTH REGULATOR

FLEXIBILITY AND CONTROL IN THE NICK OF TIME







## MAXIMIZE FLEXIBILITY, MINIMIZE RISK

Corn seed producers have a whole season's worth of product balancing on events that take place in a few days' worth of time.

BioNik™ plant growth regulator makes the random predictable, offering producers the flexibility they need while managing risk in the process.

### FLEXIBILITY BENEFITS

- Treat seed yourself vs. sending to a supplier
- Save time and resources
- Adjust rate close to planting as situation dictates
- Treat some inbreds early and spread workload
- Over-treat seed treatments to maintain current practice
- Store product until next season to manage inventory

### RISK MANAGEMENT BENEFITS

- Prevent the need for split planting to offset considerable weather risk
- Plant a male inbred mix of untreated and 1x BioNik™ rate to extend germination period and elongate pollen shed window
- Protect your female yield potential by optimizing the nicking zone
- Make decisions in-season to adjust to weather patterns and planting dates



## MASSIVO™ Plant Growth Regulators: PHYSIOLOGICAL SEED ENHANCEMENT MAKING SEEDS BETTER, NATURALLY

---

Physiological seed enhancement technology leverages the power of biorational agents to enhance seed and/or seedling performance, resulting in a consistent benefit to the grower.

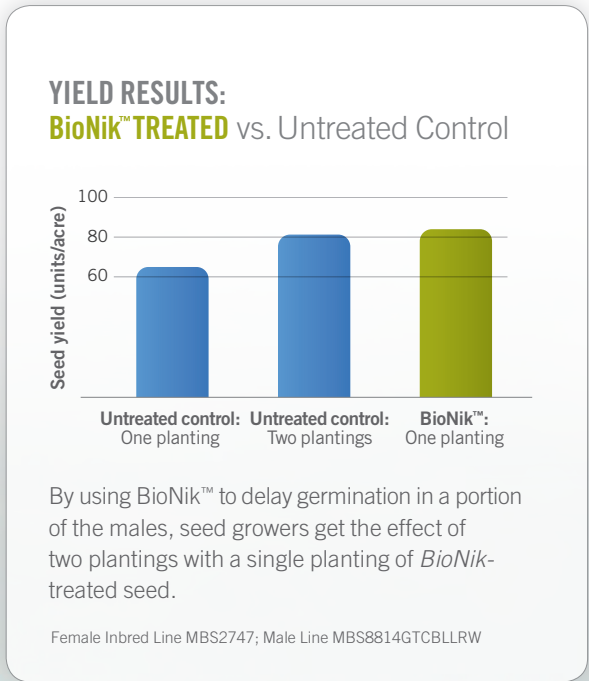
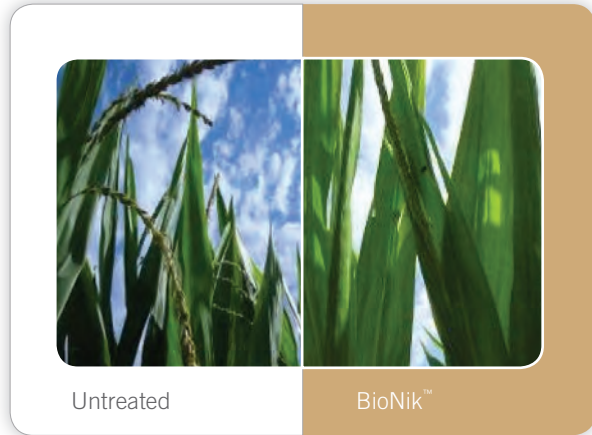
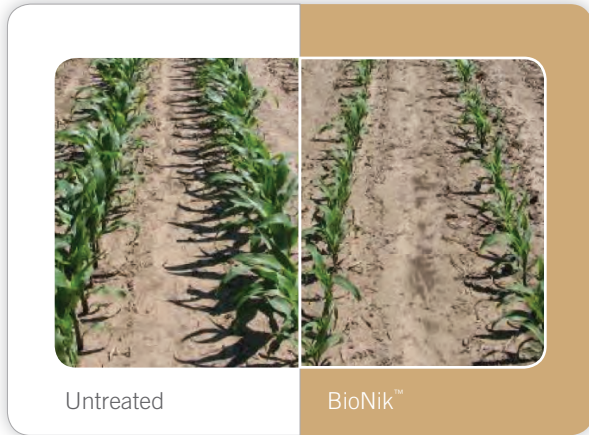
BioNik™ plant growth regulator is the first release in the Massivo™ family, and is a 25% formulation of s-abcisic acid (s-ABA). S-ABA is one of the five classes of plant growth regulators naturally present in plants, and regulates numerous plant processes including dormancy, maturation, growth, and response to stress conditions.

*BioNik* is a rate-responsive product based on benefits obtained from germination delay. *BioNik* can be applied at different rates to obtain a desired level of delay once the inbred response is characterized.

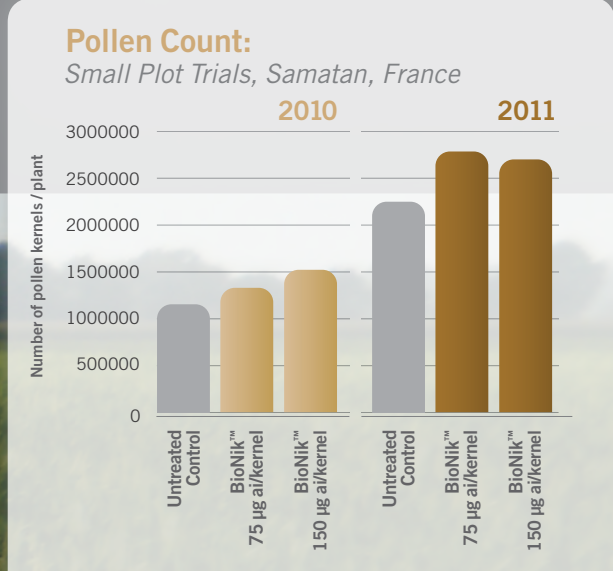
Valent BioSciences Corporation's (VBC) first registered s-ABA product, ProTone® Plant Growth Regulator, has been extremely successful in promoting the development of fruit color on red table grapes. VBC is continuing to expand its research with s-ABA into several more areas within the horticulture, agronomic, and ornamental crop segments.

# YOU CAN'T CONTROL EVERYTHING, BUT YOU CAN CONTROL THE NICK

BioNik™ provides corn seed growers with the ability to precisely delay germination on male lines, providing flexibility that translates into a better nick, increased productivity and significant ROI.



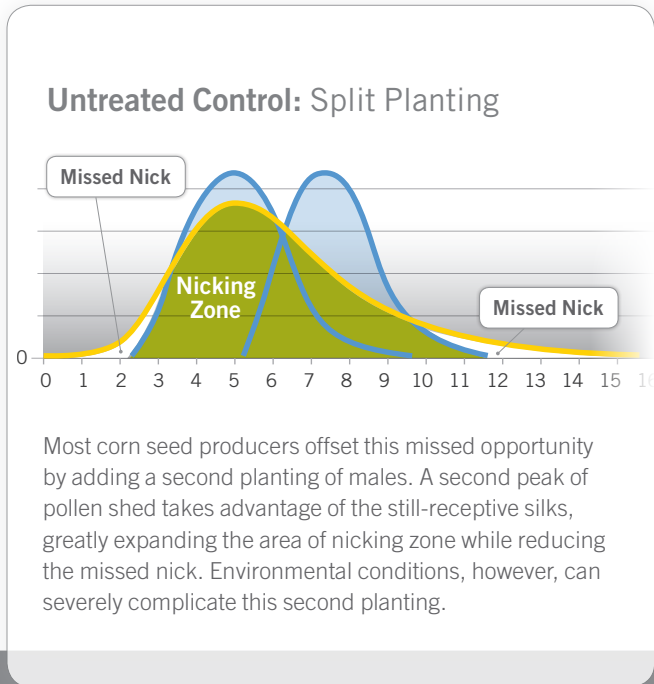
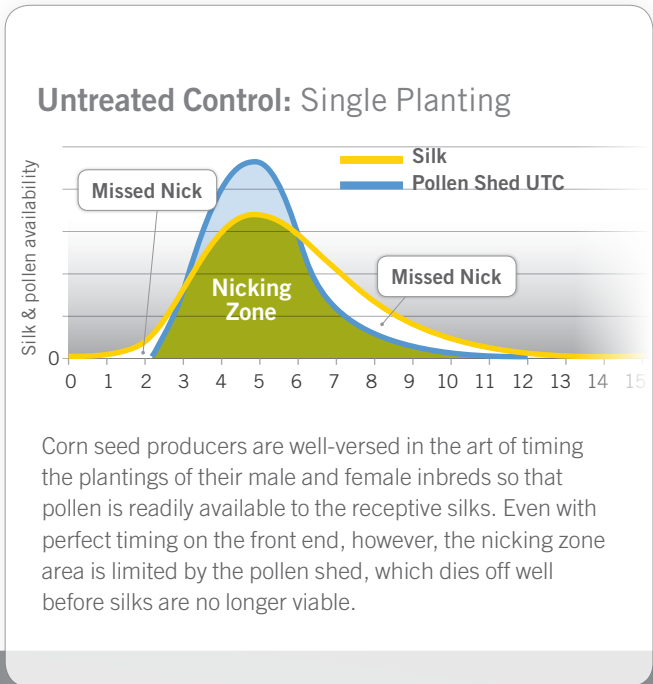
# the BioNik™ EFFECT



## INCREASED POLLEN COUNT MEANS INCREASED EFFICIENCY

In addition to widening pollination spread, *BioNik* also effectively increases the amount of pollen shed by the males. More pollen, plus a wider window, equals a better nick.

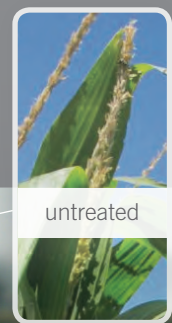
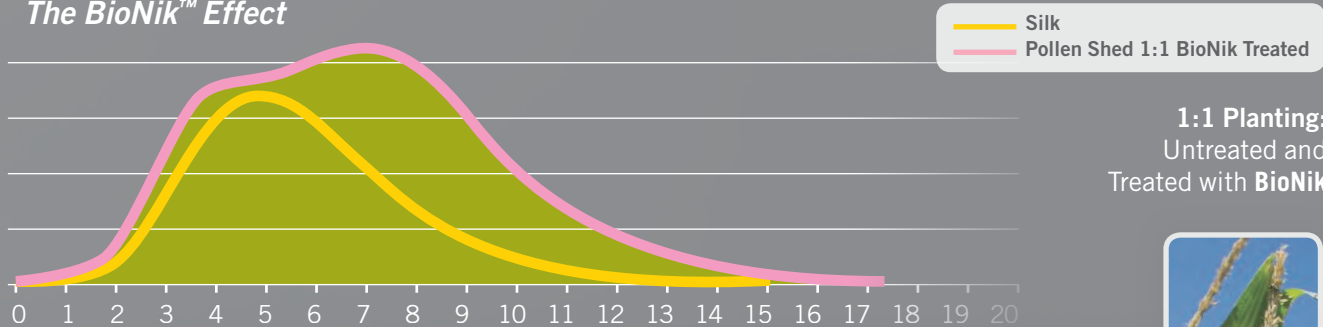
# UNTREATED SINGLE AND SPLIT PLANTINGS: COVERING THE NICKING ZONE



BioNik delivers corn seed producers the ultimate in flexibility and risk avoidance. With a single planting apportioned with both untreated and BioNik-treated seed, producers can stretch out

pollen shed to effectively blanket the silking period, resulting in a maximum nicking zone and no missed nick opportunity.

## The BioNik™ Effect







Valent BioSciences Corporation is a worldwide leader in the research, development and commercialization of highly effective low-risk, environmentally compatible technologies and products for the agricultural, public health, forestry, and household markets. Through the power of technology, Valent BioSciences develops biorational products that create value and provide innovative solutions for its customers around the world.



**Valent BioSciences Corporation is an ISO 9001:2008 Certified Company**

Read and follow the label instructions before using.

BIONIK, MASSIVO, PROTONE, VALENT BIOSCIENCES AND LOGO are trademarks of Valent BioSciences Corporation.



870 Technology Way, Libertyville, IL 60048 © Valent BioSciences Corporation June 2012

AG5451