



CORN 

# BioPath<sup>®</sup> Application Rate and Timing in Corn



April, 2024

## OBJECTIVE

Evaluate the effects of method and timing of BioPath<sup>®</sup> applications on the grain yield of corn.

## OVERVIEW

- Some applied fertilizer and other soil nutrients are unavailable to the plant during nutrient uptake due to complex physical and chemical interactions.
- Select soil microbes can influence these interactions to increase plant nutrient availability and improve nutrient uptake and utilization, resulting in increased plant biomass, improved vigor and higher quality of yield.
- BioPath contains multiple bacterial species that are specifically selected and formulated to promote plant nutrient availability via production of organic acids and enzymes that improve the solubilization of fertilizer into plant available forms.

## TRIAL DETAILS

### Locations and Crop Management

**Crop:** CORN (*Zea mays*)

**Years:** 2017-2023

**Number of Sidedress Trials:** 101

**Locations:** AR, CO, IA, IL, IN, KS, KY, LA, MI, MN, MO, MS, NC, ND, NE, OK, OH, ON, PA, SD, VA & WI

**Years:** 2021-2023

**Number of In-furrow Trials:** 51

**Locations:** CO, GA, IA, IL, IN, KY, MD, MI, MN, ND, NE, OK, OH, ON, SD & WI

**Data Source:** Field Studies were conducted by third-party, independent researchers

### Treatments:

1. Grower Standard Practice
2. BioPath applied at 16 oz/ac either in-furrow or at sidedress

**Cropping Conditions:** Trials conformed to local cropping practices

**Application Rate:** 16 fl oz/ac

**Application Method:** In-furrow or sidedress

**Application Timing:** Applications at planting in-furrow or side dress at V4-V6

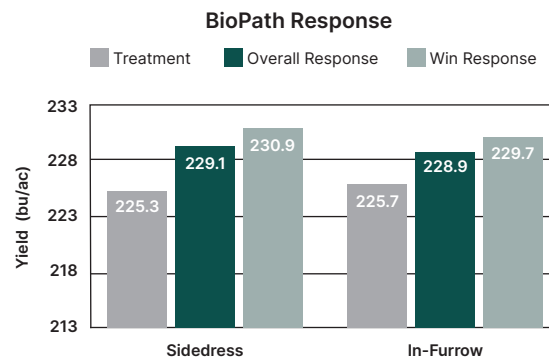
## RESULTS

### BioPath Sidedress in Corn

- Comparisons between BIOPATH and untreated checks applied in sidedress applications resulted in a +5.6 bu/ac yield increase from BIOPATH in 79% of comparisons.
  - Overall, BIOPATH increased yield +3.8 Bu/ac over untreated checks

### BioPath Sidedress in Corn

- Comparisons between BIOPATH applied in-furrow resulted in a +4.0 bu/a yield increase from BIOPATH in 88% of comparisons.
  - Overall, BIOPATH increased yield +3.2 Bu/ac over untreated checks



## SUMMARY

- BioPath has flexible application methods that produce consistent, positive results. In overall corn testing (combining sidedress and in-furrow results) BioPath provided an 82% positive yield response with a 3.6 bu/ac yield advantage.

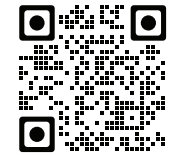
**3.8**

BU/AC INCREASE IN YIELD FROM BIOPATH SIDEDRESS APPLICATIONS

**3.2**

BU/AC INCREASE IN YIELD FROM BIOPATH IN-FURROW APPLICATIONS

For the most up to date data in your region, scan this QR code.



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Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

For more information, go to [cropputrition.com](http://cropputrition.com)