# BETTER FERTILIZER EFFICIENCY WITH BETTER RESULTS

iNvigorate® SMART CARTRIDGE

### Choose iNvigorate® to Increase Your Crop Yields

**iNvigorate®** helps maintain a vigorous soil microbial community. Results may increase availability of nitrogen, phosphorus and potassium, improve fertilizer utilization and increase yields.

SmartCartridge® technology enables farmers to target challenged areas of their fields to mitigate plant stress and improve soil vigor.

### How iNvigorate Helps Your Crop Thrive

**iNvigorate** aids and may increase the microbial community when applied to the soil, assisting in nutrient availability and improving fertilizer efficiency. Count on **iNvigorate** to:

- Free up nutrients bound to soil particles, so they become more available to the plant
- Allows plant roots to access previously unavailable nutrients
- Rejuvenate the soil by increasing soil organic matter and building a robust microbial community

### The iNvigorate Difference

Our proprietary process includes co-fermentation, which establishes a robust consortium of naturally occurring aerobic and anaerobic microbes. This means **iNvigorate** may benefit what you need for a successful harvest, including:

- Potential yield improvement
- Improved consistency across a wide variety of soil and growing conditions
- Aided performance in nutrient limiting and stressful environments such as drought and high heat

## RECOMMENDATION

### Corn

| Type of Application | qt/A | Timing |
|---|---|---|
| Soil | 1 | At planting |

### Soybeans

| Type of Application | qt/A | Timing |
|---|---|---|
| Soil | 1 | At planting |

*To learn more, contact your retailer or local AMVAC® representative.*

**iNvigorate** can be applied in conjunction with other in-furrow treatments, including most fertilizers, micronutrients, fungicides, insecticides or herbicides. Please check with your local AMVAC® representative for specific mixing questions.

**To Improve the Yield Potential of Your Crops, Add iNvigorate to Your Program Today!**

See our entire line of products at **AMVAC.com**


## CONSIDERATIONS WHEN APPLYING INVIGORATE PRESCRIPTIVELY WITH SIMPAS®

**1**

Target fields prone to plant stresses.

**2**

When developing a prescription, consider previous crop stresses and yield dips within the field. Target challenged soils where plant stresses tend to occur; areas with soil compaction, excessive pH or wet soils.

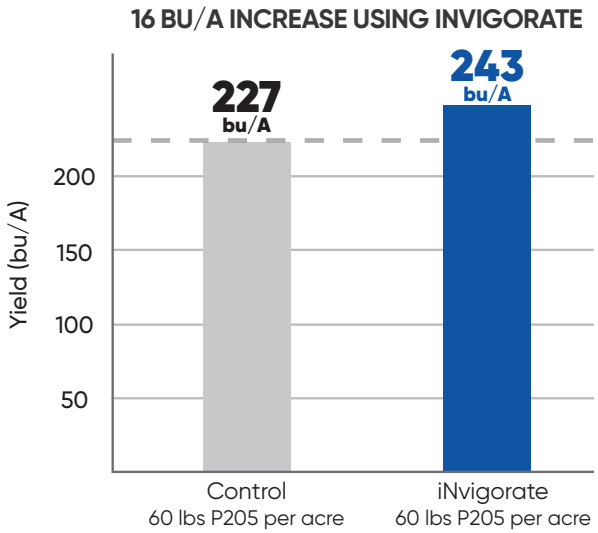
**3**

Consider using where known phosphorus nutrient tie-up occurs.

## PROVEN PROFIT POTENTIAL

- In research conducted by the University of Illinois*, an in-furrow application of phosphorous solubilizing bacteria (tested as **iNvigorate**) at planting increased available phosphorous in the soil, which in turn elevated the amount of phosphorous accumulated in corn plants and increased corn yield.
- At a 60 lbs P2O5 per acre, **iNvigorate** yielded **243 bu/acre**, an **increase of 16 bu/acre above the control**. Researchers observed increases in numbers of kernels per ear, and grain quality (as protein % content) was typically increased.

*Woodward, L.P., "Enhancing Mineral Nutrient Availability and Corn Productivity with Biostimulants (master's thesis, University of Illinois at Urbana-Champlain, 2020).*




AMVAC® An American Vanguard Company | SIMPAS® APPLIED SOLUTIONS