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News Release

ThryvOn™ Technology to Bring New Solutions to Cotton Growers in Near Future

Bayer announces name for new biotechnology trait coming in the near future, first in industry designed to help cotton growers protect against tarnished plant bugs and thrips species; field days expected in 2020

St. Louis (December 18, 2019) – Tarnished plant bugs and thrips have long been important pests in cotton, while growers have limited options to help manage these insects. That is set to change with a new cotton trait developed by Bayer – named ThryvOn™ Technology – which will provide cotton plants increased protection, and growers an additional tool, against these damaging pests.

Announced this past weekend by Bayer at the Deltapine New Product Evaluator (NPE) Summit, ThryvOn Technology will represent the first trait in the industry designed to help cotton growers protect against these pests and help reduce the need for some insecticide applications.

Pending various factors such as regulatory approvals, ThryvOn Technology is expected to be available to cotton growers in the next few years – the early 2020s – and stacked with Bollgard® 3 XtendFlex® Technology, providing cotton growers the latest technology for insect pest and weed control.

“We believe that once available, this technology system will provide immense value to cotton growers by promoting plant health and helping protect yield potential against pests that, until now, were not able to be managed through a biotech trait,” said Jon Riley, North America Cotton Launch Lead.

Once launched, some expected benefits of ThryvOn Technology stacked with the current industry-leading herbicide and pest protection traits include:

- Season-long protection against feeding damage from tarnished plant bugs and thrips species* through built-in trait technology
- A potential reduction in the number of foliar insecticide applications needed for control of tarnished plant bugs and thrips species*
- ThryvOn Technology will be stacked with the proven Bollgard® 3 XtendFlex® Technology

“We’re also excited to move one step closer to commercialization by announcing the name of ThryvOn Technology, a name that conveys our desire to help cotton growers everywhere thrive in the face of challenges from tarnished plant bugs and thrips species,” said Travis Coffman, Cotton Trait Marketing Manager for Bayer.

Beginning in 2020 and pending various factors such as regulatory approvals, growers will be able to see educational, academic test plots this growing season.

* ThryvOn™ Technology will protect against two species of tarnished plant bugs (*Lygus hesperus* and *Lygus lineolaris*) and Thrips (*Frankliniella* spp.).

About Bayer

Bayer is a global enterprise with core competencies in the life science fields of health care and nutrition. Its products and services are designed to benefit people by supporting efforts to overcome the major challenges presented by a growing and aging global population. At the same time, the Group aims to increase its earning power and create value through innovation and growth. Bayer is committed to the principles of sustainable development, and the Bayer brand stands for trust, reliability and quality throughout the world. In fiscal 2018, the Group employed around 117,000 people and had sales of 39.6 billion euros. Capital expenditures amounted to 2.6 billion euros, R&D expenses to 5.2 billion euros. For more information, go to www.bayer.com.

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ThryvOn™ Technology is not currently available for commercial sale or commercial planting.

Commercialization is dependent on multiple factors, including successful conclusion of the regulatory process. The information presented herein is provided for educational purposes only, and is not and shall not be construed as an offer to sell. It is a violation of federal law to promote or offer to sell an unregistered pesticide.

Forward-Looking Statements

This release may contain forward-looking statements based on current assumptions and forecasts made by Bayer management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Bayer’s public reports which are available on the Bayer website at www.bayer.com. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with cotton with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or cotton with XtendFlex® Technology.

B.t. products may not yet be registered in all states. Check with your seed brand representative for the registration status in your state.

Roundup Ready® Technology contains genes that confer tolerance to glyphosate. **Cotton with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba.** **Glyphosate** will kill crops that are not tolerant to glyphosate. **Dicamba** will kill crops that are not tolerant to dicamba. **Glufosinate** will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Monsanto Technology Use Guide for recommended weed control programs.

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