



Corteva Agriscience

Helping farmers produce the food society demands, in the way that society demands it

Entomology Today Supplemental Information: Traits and Crop Protection

November 2021



Our Purpose

Enrich the lives of those who produce and those who consume, ensuring progress for generations to come

Our Values

Enrich Lives

We commit to enhancing lives and the land

Build Together

We grow by working together

Stand Tall

We are leaders and act boldly

Be Upstanding

We always do what's right

Be Curious

We innovate relentlessly

Live Safely

We embrace safety and the environment in all we do

Crop Protection Portfolio



Biologicals



Cereal & Broadleaf Crop Herbicides



Disease Management



Enlist™ Weed Control System & Core Herbicides



Insect & Nematode Management



Nitrogen Management & Row Crop Herbicides



Pasture & Land Management



Rice & Specialty Herbicides



Seed Applied Technologies



Spinosyns portfolio of products

Expanding position in a
growing insecticide market



Qalcova™ active

• **Jemvelva™ active**

- Naturally derived insecticides developed and manufactured through proprietary process
- Provides organic farmers with highly effective and needed insect control option with broad spectrum offering for insect control in key crops such as fruits, vegetables, soybeans, corn, rice and others
- Unique, world-class fermentation facilities and processes enable us to innovate products and increase productivity and scalability
- Authorized capacity expansions are expected to deliver 50% increase in fermentation capacity by 2023

Award Winning from Discovery to Today



2007
US EPA Reduced Risk
Pesticide Registration



2008
US EPA Presidential Green
Chemistry Challenge Award



2009
Michigan Green Chemistry
Governor's Award



2010
Best New Crop Protection
Product



2018
Remarkable Contributor
for Crop Protection



2019
Contribution to Crop
Health Products Award



Isoclast™ active

New insecticide class provides more effective control of sap-feeding insect pests

Product overview

- Sole member of new class of insecticides (sulfoximines) discovered by researchers at Corteva Agriscience
- Developed to manage hard-to-control and economically destructive sap-feeding insect pests
- Controls insect pests both on contact and through ingestion to provide fast-acting and long-lasting control

Farmer benefits

- Controls a broad spectrum of pests, including those that are resistant to other insecticides
- Important rotation partner within insect resistance management strategies
- Excellent fit in IPM programs, with minimal impact on beneficial insects

By the numbers

- Approved in more than 90 countries, 19 in the EU28. Key markets include United States, Brazil, Canada, Australia, Japan, India, China, Mexico, Argentina and Turkey
- U.S. EPA restored registration in 2019 and expanded critical uses
- Recent regulatory approval in Brazil

Isoclast™
active



Key Crops
Fruits and vegetables,
cereal,
soybeans, rice



Regions
NA, LA, EMEA, AP



Sustainability Benefits

Biodiversity & Habitat Health
Food Safety & Availability
Sustainable Production & Land Use

Pending regulatory approval.



Pyraxalt™ active

Groundbreaking tool increases growers' power to raise their best rice crop

Product overview

- Pyraxalt™ active family of products is a new sub-group of insecticides for Asian rice growers
- Controls plant hoppers earlier in the crop cycle for a healthier crop and, ultimately, a better harvest
- Offers unique mode of action with no cross resistance

Farmer Benefits

- Provides complete growth stage hopper control with fewer applications; highly effective on nymph and adult hoppers
- Provides 21 to 25 days of hopper control¹, helping to stop insects from feeding on crops while conserving beneficial insects and hopper enemies, such as spiders
- In field trials, Pyraxalt outperformed the next best competitor time and time again, with higher-yielding rice, almost 90 percent of the time

By the numbers

- 5 registered formulations across 11 countries

Pyraxalt™
active



Key Crops
Rice



Regions
AP



Sustainability Benefits
Biodiversity & Habitat Health
Water, Air & Soil Stewardship
Food Safety & Availability
Water, Air & Soil Stewardship

Pending applicable regulatory reviews. ¹Consult local technical and regulatory team for local statistics



Providing farmers with traits and seed treatment to help stop economically devastating pest



Key Crop

Corn



Regions

NA, LA, EMEA, AP



Sustainability Benefits

Biodiversity & Habitat Health

Water, Air & Soil Stewardship

Food Safety & Availability

Sustainable Production & Land Use

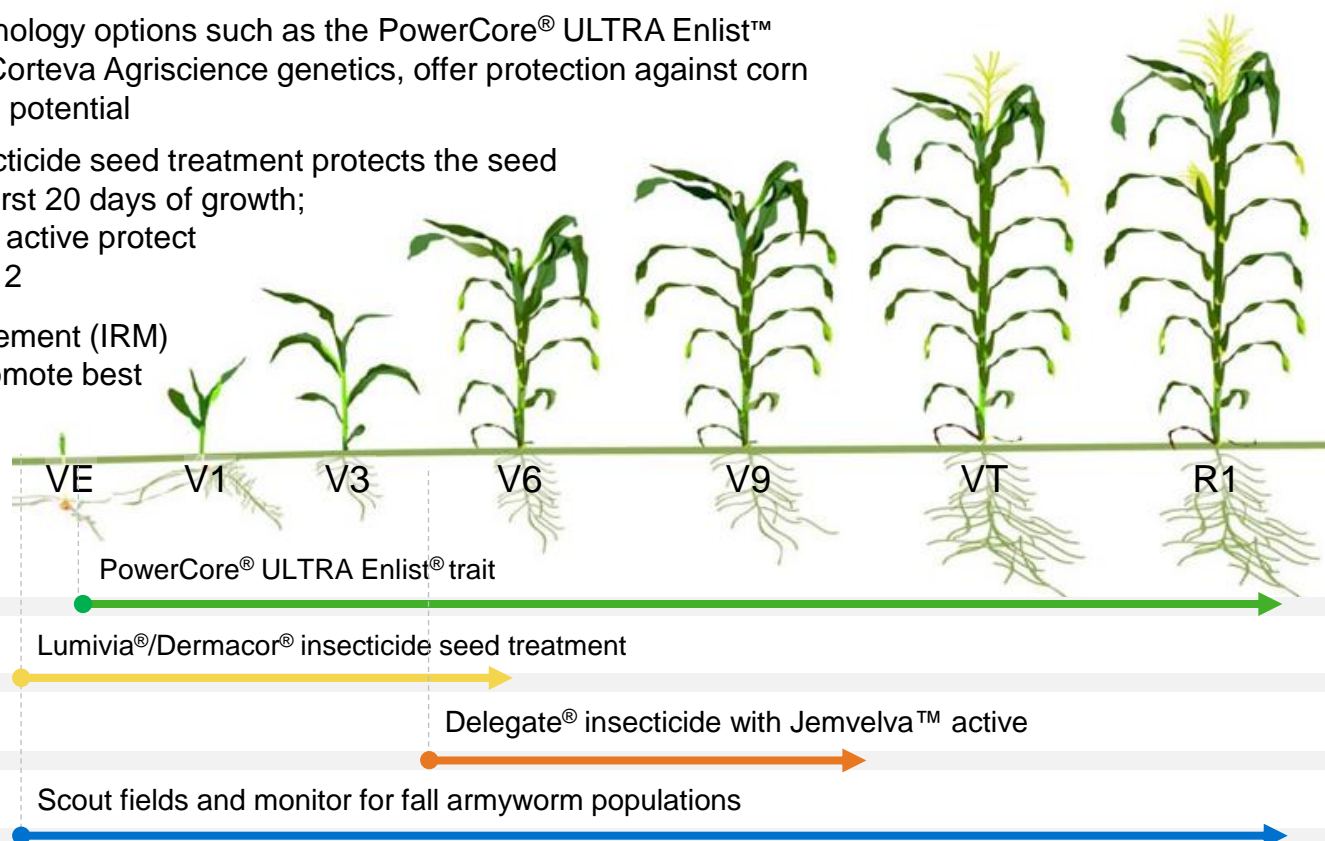
Fighting fall armyworms

Overview

- Fall armyworms attack corn crops from seed germination (VE) through the start of kernel development (R2). Multiple generations can feed off a single crop during a growing season

Farmer benefits

- Industry-leading trait technology options such as the PowerCore® ULTRA Enlist™ trait, combined with elite Corteva Agriscience genetics, offer protection against corn insects for maximum yield potential
- Lumivia®/Dermacor® insecticide seed treatment protects the seed from planting through its first 20 days of growth; products with Jemvelva™ active protect plants from V4 through V12
- Insect Resistance Management (IRM) stewardship programs promote best agronomic practices to maintain longevity and effectiveness of traits and crop protection



Global seed business platform product portfolios



Corn



Soybeans



Sunflowers | Cotton | Canola



Alfalfa | Inoculants | Mustard
Rice | Pearl Millet | Sorghum



Food Systems &
Consumer Strategy



PowerCore® ULTRA | PowerCore® ULTRA Enlist® trait

Stands tough against South America’s most problematic insects

Conventional (non-Bt)



POWERCORE[™]
ULTRA



Product overview

- Leading corn trait in South America
- In-the-bag control of fall armyworm, corn earworm, sugarcane borer and European corn borer
- Season-long insect protection and herbicide flexibility gives farmers the pest and weed protection they need
- Combines innovative insect-control traits, herbicide tolerance and stewardship

Farmer benefits

- With the PowerCore® ULTRA Enlist® trait, three modes of action deliver excellent protection against above-ground pests
 - Enlist® herbicide offers tolerance to glyphosate, glufosinate, 2,4-D choline and FOP chemistries
- Excellent control of fall armyworm, the No. 1 yield-robbing pest in Latin America

Launch milestones

- PowerCore ULTRA Enlist trait – full commercial launch in Argentina in 2019
- PowerCore ULTRA Enlist trait – expected to launch in Brazil in 2023

POWERCORE[™]
ULTRA

POWERCORE[™]
ULTRA
Enlist



Key Crop
Corn



Regions
NA, LA, EMEA



Sustainability Benefits

Biodiversity and
Habitat Health

Water, Air and Soil
Stewardship

Food Safety and
Availability

Sustainable
Production and
Land Use

Pending applicable regulatory reviews and completion of field testing.



Conkesta E3[®] soybeans

Broader lepidopteran spectrum combined with superior weed-control system to deliver total-acre solution

In-field comparison of insect damage



Product overview

- Robust trait option will offer broad-spectrum insect control with strong genetics
- Broad pest-control package demonstrates improved insect management
- Enlist[®] weed control system enables use of three herbicide modes of action
- Dual Bt technology for superior insect control
- Key component of robust insect- and weed-control solution from Corteva Agriscience
- Encourages responsible product use through the Enlist Care (Brazil) and Enlist Protect (Argentina) management resources
- Corteva recently announced the launch of Conkesta E3 soybeans to the Brazilian market; will be available in the remaining 2021-2022 season

Farmer benefits

- Will be available in elite, locally adapted varieties via Corteva Agriscience or other genetic providers
- Excellent efficacy on key lepidopteran pests
- Combined with the Enlist weed control system for maximum flexibility and control of tough and resistant broadleaf weeds and grasses



Key Crop
Soybeans



Regions
LA



Sustainability Benefits

Biodiversity and Habitat Health
Water, Air and Soil Stewardship
Food Safety and Availability
Sustainable Production and Land Use

The transgenic soybean event in Conkesta E3 soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C. Pending applicable regulatory reviews and completion of field testing.



WideStrike® 3 insect protection trait x Enlist® cotton

Unique trait stack offering cost-effective stalk destruction and herbicide rotation options plus insect protection

Product overview

- Best-in-class insect protection elite, in high-performance PhytoGen® cottonseed genetics
- Enables use of the Enlist™ weed control system to manage tough-to-control and resistant weeds
- Enlist cotton trait provides exceptional crop tolerance to new 2,4-D choline, glyphosate and glufosinate herbicides

Farmer benefits

- New crop management option for herbicide rotation and stalk burndown
- Weed management program enhances productivity in dryland environments
- WideStrike® 3 insect protection provides season-long control against a wide spectrum of damaging lepidoptera pests
- Improved control of cotton bollworm reduces number of insecticide applications



Key Crop
Cotton



Regions
NA



Sustainability Benefits

Biodiversity and Habitat Health	Food Safety and Availability
Water, Air and Soil Stewardship	Sustainable Production and Land Use

Important Notices

Adavelt™
active

Arylex™
active

Inatreq™
active

Onmira™
active

Optinyte™
technology

Pyraxalt™
active

Rinskor™
active

Reklemel™
active



Enlist One®
COLEX-D® technology
HERBICIDE

Enlist Duo®
COLEX-D® technology
HERBICIDE

Isoclast™
active

Qalcova™
active

Jemvelva™
active

Enlist™
Ahead



Lumiposa™
INSECTICIDE SEED TREATMENT

Lumiderm™
INSECTICIDE SEED TREATMENT

Lumialza™
NEMATOCIDE SEED TREATMENT

Lumiante™
FUNGICIDE SEED TREATMENT

Lumisena®
FUNGICIDE SEED TREATMENT

Dermacor®
TRATAMENTO DE SEMENTES

Lumivia®
INSECTICIDE SEED TREATMENT

Lumivia® CPL
INSECTICIDE SEED TREATMENT

Lumiflex™
SEED TREATMENT FUNGICIDE

Lumisure™
INSECTICIDE SEED TREATMENT

Components of LumiGEN™ technologies for soybeans are applied at a Corteva Agriscience production facility or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience and its affiliates.

The transgenic soybean event in Enlist E3® soybeans and Conkesta E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One herbicides are the only 2,4-D products authorized for use in Enlist crops. Always read and follow label directions. Consult Enlist herbicide labels for weed species controlled.

POWERCORE® multi-event technologies is developed by Corteva Agriscience and Monsanto®. PowerCORE is a registered trademark of Monsanto Technology LLC. Used under license. Always follow IRM, grain marketing and all other stewardship practices and pesticide label directions. B.t. products may not yet be registered in all states. Check with your seed representative for the registration status in your state.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS. It is a violation of federal and state/provincial law to use any pesticide product other than in accordance with its label. The distribution, sale and use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited.

Some products are not registered for sale or use in all countries. No offer for sale or use of this product is permitted prior to issuance of the required country level registrations. Always read and follow label directions.

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Important Notices



DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend® technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend® technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. 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 soybeans with Roundup Ready 2 Xtend® technology. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend® technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Roundup Ready 2 Xtend® is a registered trademark of Monsanto Technology LLC used under license.

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.

Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit <http://www.biotradestatus.com/>.

Plenish® high oleic soybeans for contract production only. Plenish® high oleic soybeans have an enhanced oil profile and are produced and channeled under contract to specific grain markets. Growers should refer to the Pioneer Product Use Guide on www.pioneer.com/us/stewardship for more information.

Omega-9 Canola Oil is a naturally stable, healthy cooking oil that is readily available for the foodservice and food processing industries. Omega-9 Canola Oil helps maintain the freshness of food products, without additives or preservatives, and can extend fry life over commodity oils.

Components of LumiGEN® seed treatments for soybeans are applied at a Corteva Agriscience production facility or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience and its affiliates.

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Safe Harbor Regarding Forward-looking Statements

Forward-Looking Statements

This presentation contains certain estimates and forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended, which are intended to be covered by the safe harbor provisions for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995, and may be identified by their use of words like “plans,” “expects,” “will,” “anticipates,” “believes,” “intends,” “projects,” “estimates”, “target”. or other words of similar meaning. All statements that address expectations, targets, or projections about the future, including statements about Corteva’s strategy for growth, sales, product development and performance, regulatory approvals, market position, and anticipated benefits of the forgoing, are forward-looking statements.

Forward-looking statements and other estimates are based on certain assumptions and expectations of future events which may not be accurate or realized. Forward-looking statements and other estimates also involve risks and uncertainties, many of which are beyond Corteva’s control. While the list of factors presented below is considered representative, no such list should be considered to be a complete statement of all potential risks and uncertainties. Unlisted factors may present significant additional obstacles to the realization of forward-looking statements and other estimates. Consequences of material differences in results as compared with those anticipated in the forward-looking statements and other estimates could include, among other things, business disruption, operational problems, financial loss, legal liability to third parties and similar risks, any of which could have a material adverse effect on Corteva’s business, results of operations and financial condition. Some of the important factors that could cause Corteva’s actual results to differ materially from those projected in any such forward-looking statements include: (i) effect of competition and consolidation in Corteva’s industry; (ii) failure to successfully develop and commercialize Corteva’s pipeline; (iii) failure to obtain or maintain the necessary regulatory approvals for some Corteva’s products; (iv) failure to enforce Corteva’s intellectual property rights or defend against intellectual property claims asserted by others; (v) effect of competition from manufacturers of generic products; (vi) impact of Corteva’s dependence on third parties with respect to certain of its raw materials or licenses and commercialization; (vii) costs of complying with evolving regulatory requirements and the effect of actual or alleged violations of environmental laws or permit requirements; (viii) effect of the degree of public understanding and acceptance or perceived public acceptance of Corteva’s biotechnology and other agricultural products; (ix) effect of changes in agricultural and related policies of governments and international organizations; (x) effect of disruptions to Corteva’s supply chain, information technology or network systems; (xi) competitor’s establishment of an intermediary platform for distribution of Corteva’s products; (xii) effect of volatility in Corteva’s input costs; (xiii) failure to raise capital through the capital markets or short-term borrowings on terms acceptable to Corteva; (xiv) failure of Corteva’s customers to pay their debts to Corteva, including customer financing programs; (xv) failure to realize the anticipated benefits of the internal reorganizations taken by DowDuPont in connection with the spin-off of Corteva; (xvi) failure to benefit from significant cost synergies and risks related to the indemnification obligations of legacy DuPont liabilities in connection with the separation of Corteva; (xvii) increases in pension and other post-employment benefit plan funding obligations; (xviii) effect of compliance with environmental laws and requirements and adverse judgments on litigation; (xix) risks related to Corteva’s global operations; (xx) effect of climate change and unpredictable seasonal and weather factors; (xxi) effect of counterfeit products; (xxii) failure to effectively manage acquisitions, divestitures, alliances and other portfolio actions; (xxiii) risks related to non-cash charges from the impairment of goodwill and intangible assets; (xxiv) risks related to COVID-19; (xxv) risks related to oil and commodity prices; and (xxvi) other risks related to Corteva’s Separation from DowDuPont.

Additionally, there may be other risks and uncertainties that Corteva is unable to currently identify or that Corteva does not currently expect to have a material impact on its business. Where, in any forward-looking statement or other estimate, an expectation or belief as to future results or events is expressed, such expectation or belief is based on the current plans and expectations of Corteva’s management and expressed in good faith and believed to have a reasonable basis, but there can be no assurance that the expectation or belief will result or be achieved or accomplished. Corteva disclaims and does not undertake any obligation to update or revise any forward-looking statement or other estimate, except as required by applicable law. A detailed discussion of some of the significant risks and uncertainties which may cause results and events to differ materially from such forward-looking statements or other estimates is included in the “Risk Factors” section of Corteva’s Annual Report on Form 10-K, as modified by its subsequent Quarterly Reports on Forms 10-Q and Current Reports on Form 8-K.