2025 WESTERN CANADA

BIOLOGICALS GUIDE

CORTEVA™
agriscience

biologicals

Growing Together

Biological products from Corteva Agriscience are designed to keep farms productive and healthy today, and tomorrow.

Using proven, predictable solutions across all crop stages, our Biologicals portfolio helps to build more productive crops by enabling crops to use nutrients and inputs more effectively, and improve naturally occurring processes to maximize crop potential. We believe healthy farms are productive farms. And this keeps each farming operation strong today, tomorrow, and for generations to come.

What is a Biological?

Biological products are an innovative, sustainable solution to today's biggest farming challenges – they consist of materials that already exist in nature; some are actual living organisms, like beneficial bacteria, while others, like enzymes, are inspired from natural materials.

Maximize your Acre with Biologicals

Our pipeline is full of exciting new developments. Expect more biological crop protection solutions from Corteva in these categories, coming soon.

Boost Performance

Activate the plant and its environment to maximize the harvest by enhancing the plants' ability to efficiently utilize soil, nutrients, water, and sunlight.

Build Resilience

Empower crop vigour to withstand adversity and stress by enabling crops to thrive in the face of abiotic stresses and unfavourable weather.

Protect Potential

Shield crops from pests and disease to ensure viability by incorporating powerful and flexible solutions in crop protection programs.

Why Choose Biologicals?

Optimize Productivity

Biologicals can improve plant performance by unleashing their full potential - enhancing physiological processes and minimizing stresses.

Next Level Crop Management

Biologicals give us the ability to take our crop management to the next level. Giving you the peace of mind to manage unpredictability and control the uncontrollable, helping you unlock new levels of on-farm potential.

Sustainable Production

Biologicals are here to create the highest impact for everyone, and everything involved – the farm, the environment and our planet, government, and society.

CONTENTS

4 PLANT HORMONE CYCLE

- Plant Hormone Cycle P. 4
- Growth Hormones P. 6
- Stress Hormones P. 7

8 BIOLOGICALS

- Bio-Forge™ Premier P. 10
- Fortified Stimulate™ Yield Enhancer P. 12
- Sugar Mover™ Premier P. 14
- Utrisha™ N nutrient efficiency biostimulant P. 16
- X-Cyte™ P. 18
- What is Heat Blast P. 20
- Cytokinin to Protect Crops from the Heat P. 21

22 CORTEVA AGRISCIENCE BIOLOGICALS APPROACH

- Corteva Biological Solutions P. 22

24 PLANT NUTRIENTS

- How Plant Nutrients Work Together P. 24
- Soil pH p. 25
- Key Micronutrients P. 26

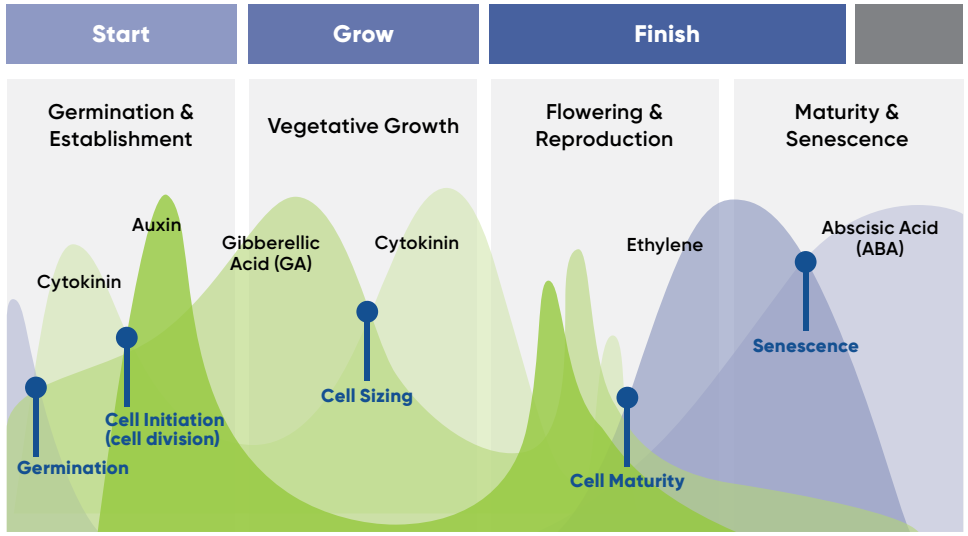
28 CONTACTS

- Biological Innovation Managers P. 28

PLANT HORMONE CYCLE

Plant hormones, nutrients, and hormone co-factors regulate plant growth and reproduction much like hormones, nutrition, and vitamins regulate growth in humans and animals.

Auxin and Cytokinin give birth to new cells. Auxin then directs food movement to the new cells and with Cytokinin, stimulates cell growth. Gibberellic Acid, which is made inside the new cell, controls the rate of movement of food into the new cell and its size.



N, Ca, P, Zn, Mg, K, Mn	Ca, Cu, Mg, B, Mn N, Zn, NO_3	Ca, B, Mg, Amine N	B, Cu, P, K, Mo, Mg, Amine N
Abscisic Acid (ABA): Keeps the seed dormant before going into the soil. **Gibberellic Acid (GA):** Awakens the seed from its dormant state. **Cytokinin:** Promotes shoot development. **Auxin:** Promotes root development.	**Gibberellic Acid (GA):** Promotes cell elongation and stem growth. **Cytokinin:** Produced in the roots and, along with Auxin, promotes cell division and lateral stem development. **Auxin:** Produced in the shoot and, along with Cytokinin, promotes cell division and influences root development.	**Gibberellic Acid (GA), Cytokinin, & Auxin:** Combination of all growth hormones regulate seed set and overall seed development. **Ethylene:** Triggers ripening and initiates senescence.	**Gibberellic Acid (GA), Cytokinin, & Auxin:** Growth hormone levels are completely depleted. **Abscisic Acid (ABA):** Promotes crop senescence and initiates seed dormancy.

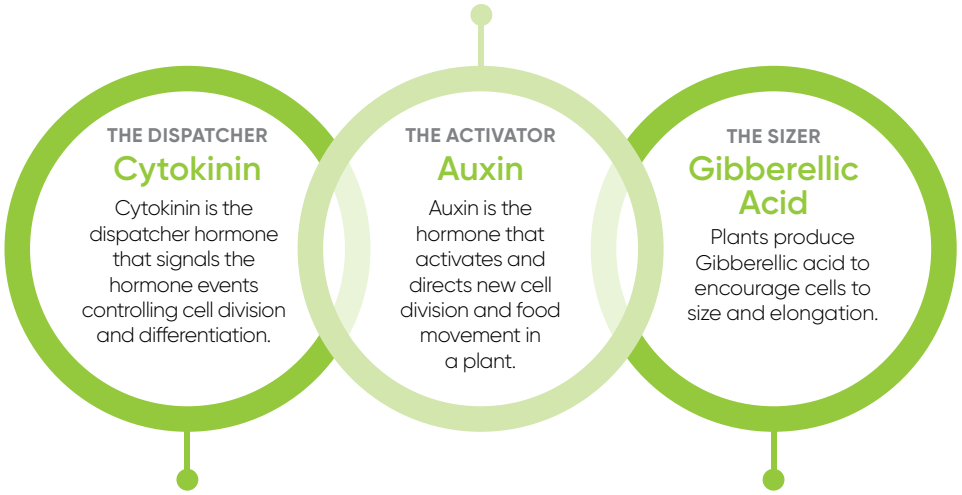
Corteva Agriscience Solutions

Crop Optimization	Crop Stress Management	Heat Stress Management
Fortified Stimulate™ Yield Enhancer	Bio-Forge™ Premier	X-Cyte™

GROWTH HORMONES

Plant growth hormones, also known as phytohormones, are essential chemical messengers that govern various aspects of plant growth and development. These hormones include Auxins, Gibberellins, and Cytokinins, each with its unique functions.

Auxins regulate phototropism, the bending of plant stems and leaves towards light. This response is crucial for optimizing photosynthesis and is controlled by the redistribution of Auxin hormone in response to light.



Cytokinins are involved in regulating many stress-responsive genes in plants, including those related to heat stress. They can help plants adapt to challenging environments and improve their overall stress tolerance.

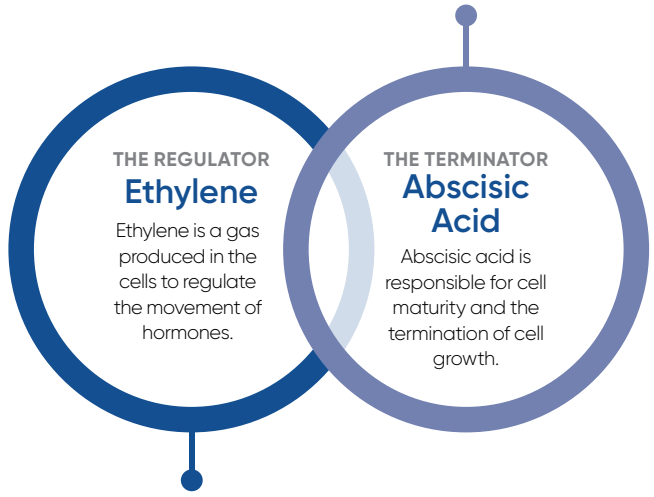
Seed have a natural dormancy period, a protective mechanism that prevents them from germinating in unfavorable conditions. Gibberellic Acid (GA) helps break this dormancy by stimulating the synthesis of enzymes that convert stored nutrients into forms usable for germination.

These hormones work together to coordinate vital processes such as seed germination, flowering, and responses to environmental cues, ensuring that plants adapt and thrive in their surroundings.

STRESS HORMONES

Stress hormones in plants are signaling molecules that play a vital role in helping plants respond and adapt to various environmental stresses. When a plant encounters stress, stress hormones increase, leading to physiological responses like stomatal closure to reduce water loss, the synthesis of stress-related proteins to enhance resilience, and altered root growth patterns to explore for water sources.

Abscisic Acid plays a key role in regulating seed dormancy. It inhibits germination in many seeds, preventing them from sprouting prematurely. This dormancy mechanism ensures that seeds only germinate when environmental conditions are favorable for survival.



Ethylene plays a role in plant responses to various stresses, including mechanical stress, pathogen attack, and environmental stressors like drought and high salinity.

These stress hormones act as critical mediators, allowing plants to survive and thrive in challenging conditions by initiating protective mechanisms and enhancing their overall stress tolerance.

Bio-Forge™ Premier

Canola · Cereals · Corn · Dry Beans · Soybeans

Bio-Forge™ Premier enhances plant resilience and protects yield potential by employing three distinct modes of action to support physical stress recovery.

Take Control of Crop Stress

When a physical stress occurs, the stress hormones overpower the growth hormones to put the plant into survival mode, closing its stomata to conserve energy, water and nutrients.

Physical stress can result in delayed plant development, in severe cases, more vulnerable to attacks from pests and pathogens.

By providing the plant with additional growth hormones and key nutrients (Cytokinin, Molybdenum, and Colbalt), Bio-Forge Premier ensures the plant is more equipped to efficiently recover from stress caused by frost, hail, wind, insect, or herbicide damage, and quickly resume growth rather than focus on recovery – leading to greater plant productivity and yield potential.

BIO-FORGE™ PREMIER FEATURES AND BENEFITS

- Combines **three modes of action** to deliver the broadest spectrum of physical crop management.
- **Enhances crop resilience** by aiding in the recovery of stress caused by cold, frost, herbicides, insects, and hail.
- **Increases plant productivity** by enabling the plant to quickly resume growth and spend less time recovering, resulting in less days lost during the growing season.
- Built with the **highest quality ingredients**, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility, and reliable shelf-stability.

Untreated | Treated with Bio-Forge Premier

Untreated | Treated with Bio-Forge Premier

BIO-FORGE™ PREMIER APPLICATION GUIDELINES

CROPS*

Dry Beans

Canola

Cereals

Soybeans

Corn

*see label for additional crop registrations

INGREDIENTS

- Cytokinin (0.0075%)
- Nitrogen (3%)
- Soluble Potash (1%)
- Cobalt (1%)
- Molybdenum (1%)

FOLIAR RATE

- 250 mL/ac up to 500 mL/ac following physical damage

TIMING

- Herbicide timing, or for best results, 24-72 hours after physical damage

PRODUCT SIZE

- 1,000 L tote
- 2 x 10 L case

WATER VOLUME

- Ground: 20 L/ac - 40 L/ac (5 - 10 US gal/ac)
- Aerial: 10 L/ac - 20 L/ac (3 - 5 US gal/ac)

Fortified Stimulate™ Yield Enhancer

Canola · Cereals · Corn · Soybeans

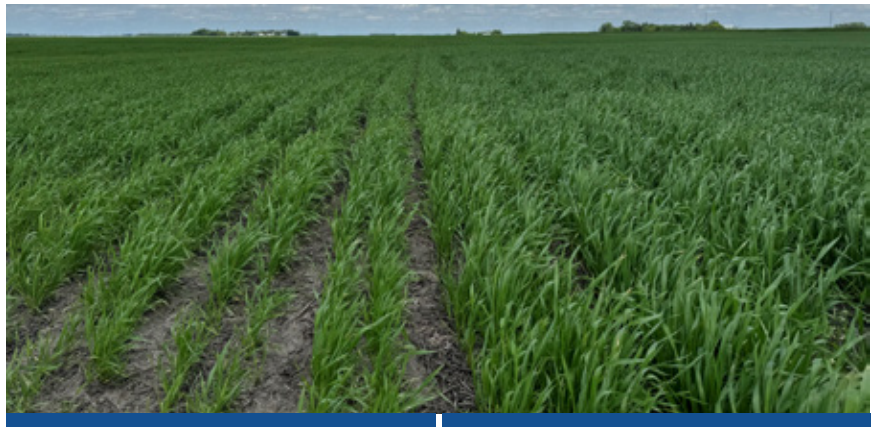
Fortified Stimulate™ Yield Enhancer contains a combination of critical plant growth hormones, strategically formulated to enhance root development, boost plant growth, and maximize yields.

Optimize the Genetic Potential of Every Plant in Your Field

Strategically formulated to ignite robust plant growth and optimize yield, Fortified Stimulate Yield Enhancer contains a patented formulation of four critical plant growth hormones – Cytokinin, Gibberellic acid (GA), and Auxins (IBA and IAA). Fortified Stimulate Yield Enhancer increases the levels of these naturally occurring hormones, improving the plants growth potential, and optimizing essential plant functions. As a result, the solution accelerates root development, promotes bigger and more robust plants that will be more resilient to stress – increasing yield potential and plant productivity.

FORTIFIED STIMULATE™ YIELD ENHANCER
FEATURES AND BENEFITS

- Fortified Stimulate Yield Enhancer is the only plant growth promoter that contains four plant growth hormones – **delivering balanced and improved plant growth.**
- **Accelerates and increases root and shoot development,** improving plant competitiveness to maximize crop potential.
- Built with the **highest quality ingredients,** resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.



Untreated | Treated with Fortified Stimulate Yield Enhancer

FORTIFIED STIMULATE™ YIELD ENHANCER
APPLICATION GUIDELINES

CROPS*

Canola

Cereals

Soybeans

Corn

INGREDIENTS
- Cytokinin (0.009%)
- Gibberellic Acid (0.005%)
- Indole-3-butyric acid (0.005%)
- Indole-3-acetic acid (0.005%)

RATE
- Foliar: 125 - 250 mL/ac
- Seed Treatment: 65 mL/100 lbs of seed

TIMING
- Seed treatment and/or herbicide timing

PRODUCT SIZE
- 1,000 L tote
- 2 x 10 L case

WATER VOLUME
- Ground: 20 L/ac - 40 L/ac (5 - 10 US gal/ac)
- Aerial: 10 L/ac - 20 L/ac (3 - 5 US gal/ac)

*see label for additional crop registrations

Sugar Mover™ Premier

Canola Lentils Peas

Sugar Mover™ Premier improves sugar distribution within the plant – promoting larger, more robust seeds and boosting flower production for increased yield potential.

Improved Sugar Distribution

Sugar availability is essential to plant growth, helping to maximize flower production and seed development. By enhancing naturally occurring hormone levels and providing key nutrients to the plant, Sugar Mover Premier accelerates the transport of sugars produced through photosynthesis in the leaves to essential growth areas.

Supplementary Boron helps to ensure that the sugars in the plant get to where they need to go by keeping the transport channels in the plant strong. Additionally, it plays a critical role in delivering pollen for successful fertilization. Cytokinin not only stimulates cell division in the plant, but also promotes flower development and prevents premature senescence. This allows the plant's leaves to photosynthesize longer and prolongs the flower's fertilization period – improving plant productivity and increasing yield potential.

SUGAR MOVER™ PREMIER FEATURES AND BENEFITS

- Promotes uniform seed development by **improving sugar distribution** from leaves.
- Stimulates cell division and promotes **flower development** for increased yield potential.
- Built with the **highest quality ingredients,** resulting in guaranteed analysis of actives for consistent performance.

SUGAR MOVER™ PREMIER APPLICATION GUIDELINES

CROPS*

Canola

Lentils

Peas

INGREDIENTS
- Copper (0.2%)
- Boron (8%)
- Molybdenum (0.004%)
- Cytokinin (0.003%)

RATE
- Foliar: 500 mL – 1 L/acre

TIMING
- Fungicide timing

PRODUCT SIZE
- 1,000 L tote
- 2 x 10 L case

WATER VOLUME
- Ground: 20 L/ac - 40 L/ac (5 - 10 US gal/ac)
- Aerial: 10 L/ac - 20 L/ac (3 - 5 US gal/ac)

*see label for additional crop registrations

Utrisha™ N

NEW FORMULATION

Canola · Cereals · Corn · Soybeans · Potatoes

NUTRIENT EFFICIENCY BIOSTIMULANT

Utrisha™ N nutrient efficiency biostimulant maximizes crop potential – utilizing natural bacteria to capture and supply nitrogen to plants when they need it most.

Give your Crop the Nitrogen It Needs, When It Needs It

Utrisha™ N is a nutrient efficiency biostimulant. The natural bacteria, methylobacterium symbioticum, fixes nitrogen from the air and converts it for the plant. Utrisha N enters the plant through the stomata and colonizes in the leaf cells. It then converts N_2 from the air into ammonium, resulting in a constant supply of nitrogen to the plant. No plant energy is required for this process.

Utrisha N provides a sustainable, alternative source of nitrogen that reduces dependency of nitrogen uptake from the soil and ensures the plant has access to nitrogen all season long, without the risk of leaching into water tables or releasing additional greenhouse gasses.

UTRISHA™ N FEATURES AND BENEFITS

- Maximizes crop potential by increasing nitrogen availability, resulting in **healthier and more resilient plants.**
- **Compliments and diversifies a conventional nitrogen fertilizer program** by providing nitrogen at critical times during the plant's life cycle.
- **The simplest way to provide supplemental nitrogen,** giving you the peace of mind that your crop can continue to be its most productive.
- Contains a natural bacteria, providing a sustainable source of nitrogen that **reduces dependency of nitrogen uptake from the soil.**

Untreated

Treated with Utrisha N nutrient efficiency biostimulant

UTRISHA™ N NUTRIENT EFFICIENCY BIOSTIMULANT APPLICATION GUIDELINES

CROPS*

Canola

Cereals

Corn

Soybeans

Potatoes

INGREDIENTS

- Exclusive nitrogen-fixing microbial strain, *Methylobacterium symbioticum*

FOLIAR RATE

- 135 g/ac (40 ac/bag)

TIMING

- Canola, cereals, corn 4 leaf stage until pre-senescence
- Soybeans 3 leaf stage until pre-senescence
- Potatoes during active growth
- For best results apply in early morning when leaf stomata are open

PRODUCT SIZE

- 1 case – 2 x 5.39 kg bags

WATER VOLUME

- Ground: minimum 40 L/ac (10 US gal/ac)

*see label for additional crop registrations

UTRISHA™ N SUPPORTED TANK MIX LIST

X-Cyte™

Canola

X-Cyte™ is designed to increase plant resilience and safeguard yield by proactively protecting crops from heat blast – reducing flower abortion and pod loss caused by heat stress.

Beat the Heat with X-Cyte™

Heat Blast occurs when a combination of hot days (28° C or warmer) and warm nights (16° C or warmer) occurs. When temperatures rise to these levels in your crop, the growth hormone Cytokinin begins to degrade within your plants, often resulting in flower abortion, also known as flower drop, and pod loss.

X-Cyte supplements the plant with additional Cytokinin, a naturally occurring hormone, that boosts cell growth – improving photosynthesis and preventing plant tissues from maturing too quickly. As a result, the plants sustain photosynthetic activity and maintain nutrient and water uptake for continued plant growth and optimized yield potential.

X-CYTE™ FEATURES AND BENEFITS

- Protects yield potential by **reducing flower abortion and pod loss** during times of excess heat.
- Improves overall crop resilience by **delaying premature senescence** caused by heat loss.
- Built with the **highest quality ingredients,** resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.

Untreated | Treated with X-Cyte

X-CYTE™ APPLICATION GUIDELINES

CROPS*

Canola

INGREDIENTS
- Cytokinin (0.04%)

FOLIAR RATE
- 500 mL/ac

TIMING
- Fungicide timing, should be applied during 10% - 30% flowering, before the onset of a heat event

PRODUCT SIZE
- 1,000 L tote
- 2 x 10 L case

WATER VOLUME
- Ground: 20 L/ac - 40 L/ac (5 - 10 US gal/ac)
- Aerial: 10 L/ac - 20 L/ac (3 - 5 US gal/ac)

*see label for additional crop registrations

WHAT IS HEAT BLAST?

Heat blast on crops refers to the damaging effects of prolonged exposure to excessively high temperatures. This stress condition can cause scorched leaves, along with reduced flowering and pollination. In canola, heat stress (a.k.a. heat blast/pod blast) can lead to pod drop and flower abortion.

With the continuation of extremely hot summers and severe heat events, it has become a pressing concern for agriculture. Growers must employ new strategies to mitigate the detrimental impact of heat stress and safeguard crop yields and quality.

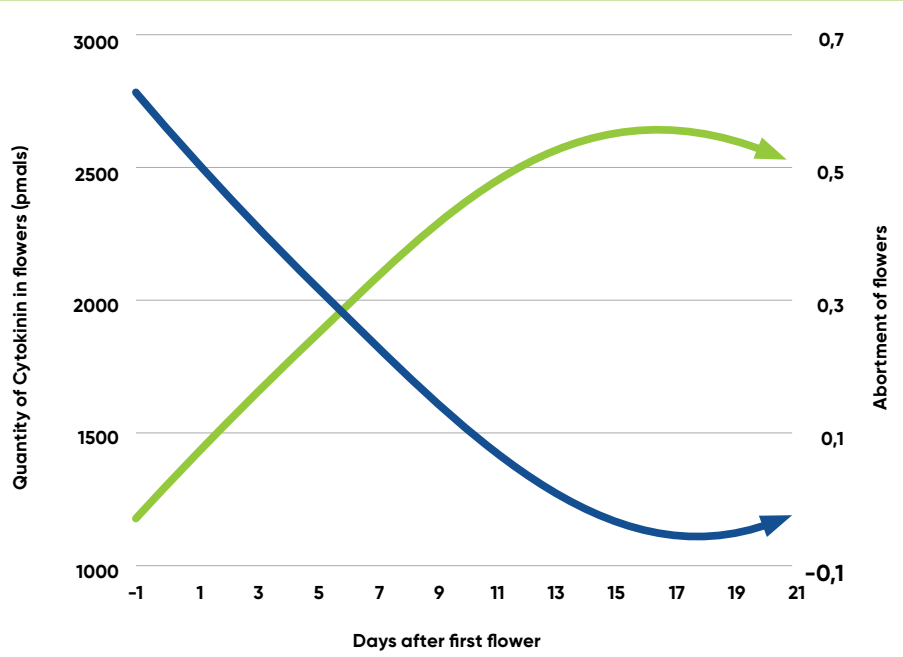
CROP	CRITICAL TEMPERATURE	CRITICAL GROWTH STAGE	RESPONSE TO HEAT STRESS
Canola	>28° C	Flowering & Pollination	Pod Drop & Flower Abortion
Corn	>35° C	Flowering & Pollination	Leaf Roll & Tip Back
Cereals	>27° C	Grain Fill	White or Bleached Awns
Pulse Crops	>32° C	Flowering & Pod Set	Pod Abortion

CYTOKININ TO PROTECT CROPS FROM THE HEAT

Cytokinins help shield plants from heat stress. They do this by boosting cell growth, improving the plant's ability to make food through photosynthesis, and helping the plant handle stress better. They also prevent plant tissues from aging too quickly and help plants use water more wisely. All of these actions work together to help plants bounce back from heat stress, keep their tissues healthy, and continue to function properly. Using Cytokinins is a valuable way to protect our crops from the harmful effects of heat stress.

Cytokinins also play a role in reducing flower abortion in plants. Flower abortion, also known as flower drop, occurs when plants shed their flowers prematurely before they can develop. Cytokinins help reduce flower abortion by promoting the growth and development of flowers, which increases the likelihood that flowers will be successfully pollinated. They can also enhance the overall health and vigour of the plant, making it better able to support the development of its flowers. Additionally, Cytokinins can influence the plant's hormonal balance, helping to prevent the hormonal imbalances that can lead to flower abortion. Overall, Cytokinins contribute improved yield in many crops.

HORMONAL DEFICIENCY DURING FLOWERING



There is a direct correlation between Cytokinin being reduced in the plant and flower abortion.

CORTEVA AGRISCIENCE BIOLOGICALS APPROACH

Corteva takes a distinctive approach to addressing crop challenges that goes beyond traditional agronomic applications. Corteva places a strong emphasis on maintaining hormone balance and plant nutrition to foster the development of robust and healthy crops. This approach not only improves crop health, but also enhances their natural defense mechanisms, making them better equipped to withstand environmental stressors, diseases, and pests. Corteva's commitment to plant health management represents a forward-thinking strategy that promotes sustainable and high-yield agriculture while minimizing the environmental impact of farming practices.

Environmental/Physiological Stresses

Corteva products are at the forefront of addressing environmental and physiological stresses in agriculture. By enhancing nutrient absorption, promoting plant health, and managing plant hormone balance they empower crops to withstand adverse environmental conditions and promote sustainable farming practices.

CHALLENGE	SOLUTION
Frost Damage	Bio-Forge™ Premier Applied 24–72 hours after damage has occurred
Wind Damage	
Herbicide Damage	
Hail Damage	
Heat Blast	X-Cyte™ Applied during flowering, before the onset of heat

Seeding Challenges

Corteva biological seed treatments optimize seed performance, leading to healthier crops, improved root development for crops seeded in saline soils, and also enable early planting in cold conditions. Corteva innovations are revolutionizing crop production by enhancing yield, sustainability, and resilience.

CHALLENGE	SOLUTION
Cold Soils	Bio-Forge™ Premier Apply on seed
Poor Germination	Fortified Stimulate™ Yield Enhancer Apply on seed

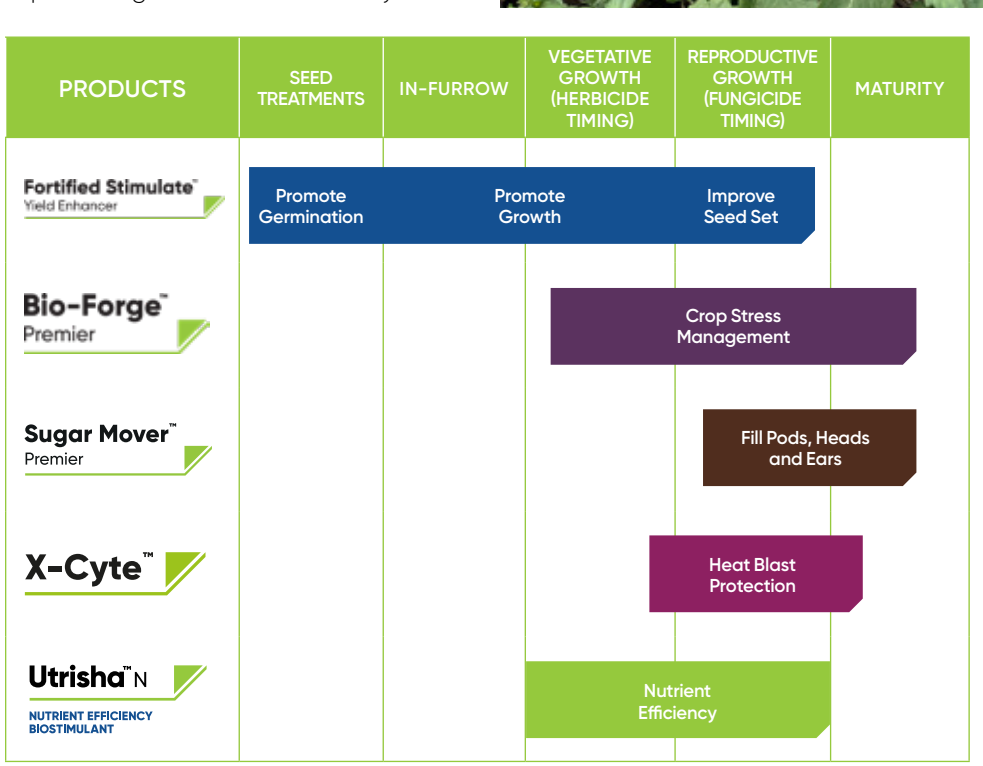
Nutrient Efficiency

Nitrogen is essential for plant survival and a key element for optimal crop health. Ensuring nitrogen is available to your crop during key stages of growth is vital for maximizing plant productivity. By increasing nitrogen availability through the use of products such as biostimulants, we can promote healthier plants and help maximize crop potential by providing continuous supplemental nitrogen – ensuring crops have access to it when they need it most.

CHALLENGE	SOLUTION
NUTRIENT EFFICIENCY	
N Nitrogen	Utrisha™ N NUTRIENT EFFICIENCY BIOSTIMULANT
B Boron	Sugar Mover™ Premier
Zn Zinc	X-Tra Power™

CORTEVA AGRISCIENCE PRODUCT SOLUTIONS

Corteva offers a comprehensive range of product solutions tailored to various stages of the crop life cycle. With seed treatment solutions that provide an excellent starting point, enhancing seed health and vigour to give crops a robust beginning. In-furrow products are designed to deliver essential nutrients and biostimulants directly to the developing plant roots, ensuring optimal growth from the early stages. Corteva's in-season product solutions offer effective protection to aid in stress mitigation and overall crop health. By promoting a strong start to a strong finish for the growing season, Corteva's solutions contribute to healthier plants, increased yields, and improved agricultural sustainability.



Always read and follow label directions. Conduct a "Jar Test" using all products in proper proportion in order to establish physical compatibility.

HOW PLANT NUTRIENTS WORK TOGETHER

Photosynthesis:	**Nitrogen (N), Phosphorus (P), and Potassium (K)** convert light energy to chemical energy (sugars) and provide the building blocks required for the synthesis of chlorophyll and other molecules involved in photosynthesis. **Iron (Fe), Manganese (Mn), and Magnesium (Mg)** are essential components of chlorophyll, which captures light energy.
Nutrient Uptake & Transport:	**Nitrogen (N)** influences the opening and closing of stomata to control water and nutrient uptake. **Copper (Cu) and Zinc (Zn)** help regulate the uptake and use of macronutrients, ensuring a balanced nutrient profile within plant tissues.
Cell Wall & Structure:	Macronutrients provide the bulk of the materials for plant structure. **Calcium (Ca)** is essential for building strong cell walls. **Potassium (K)** helps regulate cell turgor pressure. **Boron (B)** is involved in cell wall formation.
Resilience to Stress:	Macronutrients and micronutrients work together to enhance a plant's resilience to environmental stressors. For instance, calcium and magnesium help maintain cell membrane stability during drought conditions, while micronutrients like iron and copper are involved in antioxidant defense mechanisms to protect against oxidative stress.

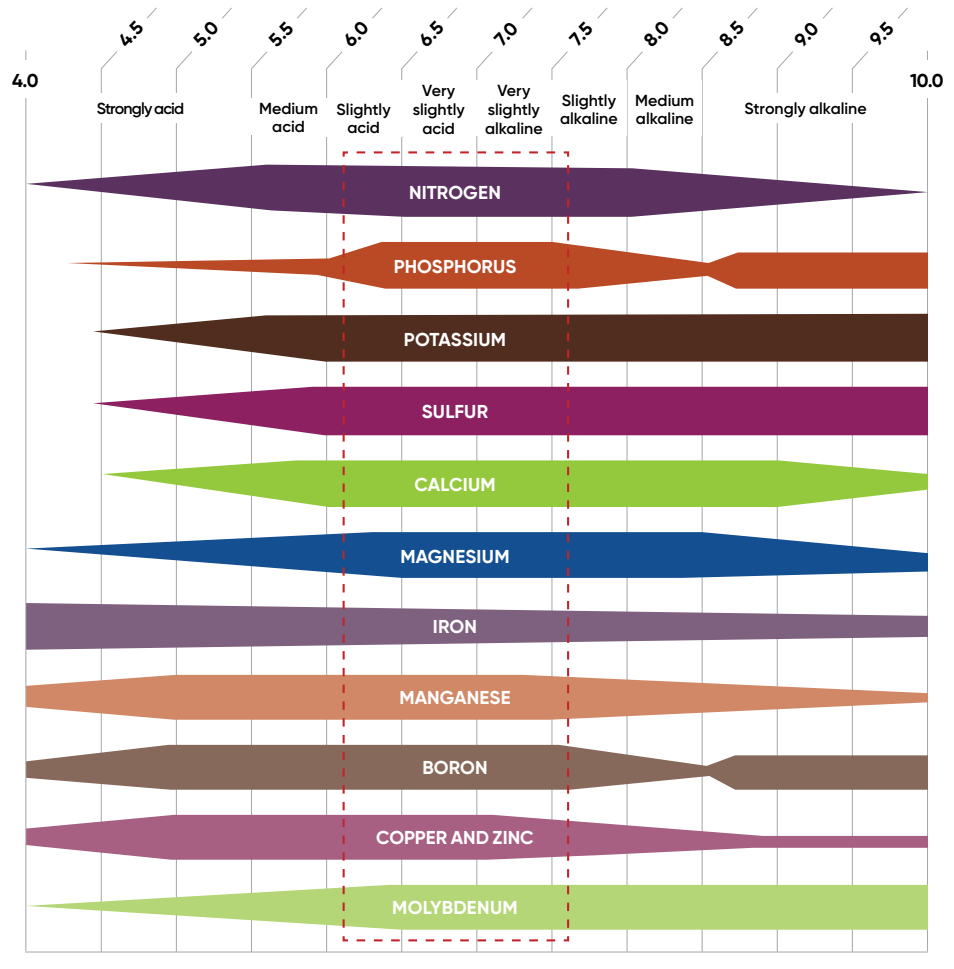
HOW DOES SOIL pH EFFECT THE AVAILABILITY OF NUTRIENTS

Soil pH is a critical factor in determining nutrient availability to plants. The pH scale ranges from acidic (0-6.9) to neutral (7.0) to alkaline (7.1-14.0), with 7.0 being neutral.

When soil pH is too low (acidic) many essential macronutrients like nitrogen, phosphorus, and potassium become less available for plant uptake. This can lead to nutrient deficiencies, even if the nutrients are present in the soil, because they are not in a form that the plant can effectively absorb. Conversely, when soil pH is too high (alkaline), micronutrients like iron, manganese, boron, and zinc may become less available.

The optimal pH range for most plants is slightly acidic to neutral, **typically falling between 6.2 to 7.2.**

THE INFLUENCE OF SOIL pH ON NUTRIENT AVAILABILITY



KEY MICRONUTRIENTS

Ca

Calcium is crucial for plants as it strengthens cell walls, regulates cell processes, aids enzyme function, enhances nutrient uptake, and boosts plant resilience against environmental stressors.

Mg

Magnesium is vital for plants as it's a core component of chlorophyll, enabling photosynthesis, and activates enzymes essential for energy production, nutrient uptake, and protein synthesis, all of which are critical for plant growth and development.

Mn

Manganese is important for plants because it helps with photosynthesis and nutrient uptake. It acts as a helper, making sure plants have the energy and nutrients they need to grow and stay healthy.

B

Boron is essential for plants as it supports cell wall formation, pollen tube growth, nutrient uptake, sugar transport, enzyme activation, and regulates water uptake through stomatal function, all of which are vital processes for plant growth and development.

Zn

Zinc is important for plants because it helps enzymes work properly. These enzymes are like the workers in a plant's factory, and they help with tasks like making DNA, proteins, and chlorophyll (which plants use for photosynthesis). Zinc also helps control plant growth and development. It's like a plant's regulator, making sure things run smoothly. Overall, zinc is crucial for keeping plants healthy and helping them cope with tough situations.

Cu

Copper is vital for plants as it activates enzymes, aids in photosynthesis through chlorophyll production, regulates iron uptake, contributes to cell wall formation, all essential for plant health and growth.

Mo

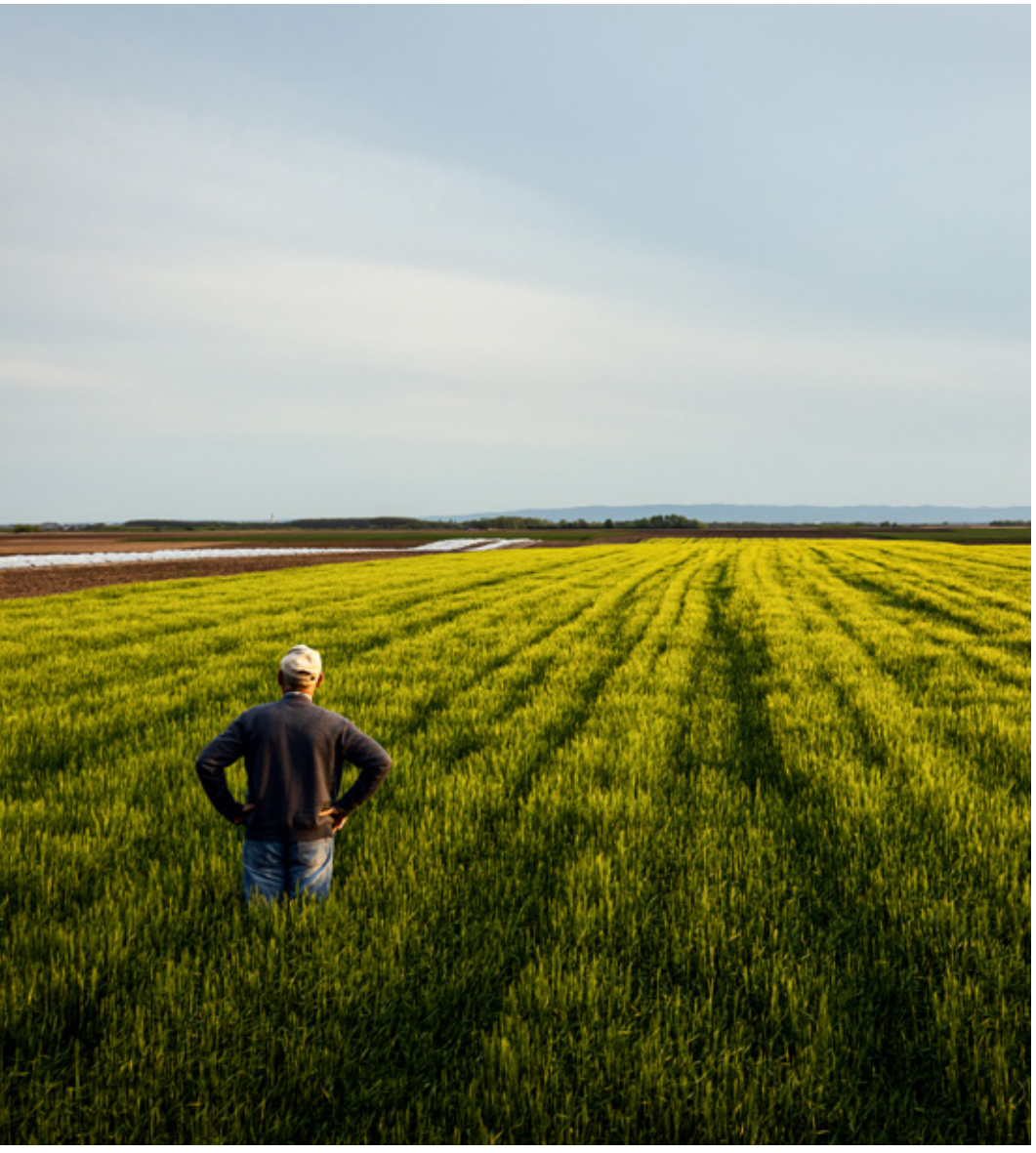
Molybdenum is crucial for plants because it plays a central role in nitrogen metabolism. It is an essential component of enzymes that convert nitrogen from the soil into forms that plants can use to make proteins and grow. Without molybdenum, plants cannot efficiently use nitrogen, leading to nitrogen deficiency and poor growth. In essence, molybdenum ensures that plants can access and utilize the nitrogen they need to thrive and develop properly.

biologicals

The collective success of Corteva Agriscience has been built on working to develop exceptional seed, crop protection and digital products that farmers trust.

Headquartered in Calgary, Alberta, Corteva Agriscience has over 10 cutting-edge research centres and countless industry experts working closely with farmers across the country.

Through sustainable and world-class solutions, we are increasing crop productivity to help farmers get the most out of every acre, while conserving resources and sustaining the land.



BIOLOGICAL INNOVATION MANAGERS

1 SOUTHERN ALBERTA

Andrew Bisignano

Biologicals Innovation Manager
E: andrew.bisignano@corteva.com
P: 403-819-6640

2 NORTHERN SASKATCHEWAN

Darrin Johnson

Biologicals Innovation Manager
E: darrin.johnson@corteva.com
P: 306-222-2057

3 SOUTHERN SASKATCHEWAN

Cory Harvey

Biologicals Innovation Manager
E: cory.harvey@corteva.com
P: 306-313-7925

4 WESTERN MANITOBA/SOUTHERN SASKATCHEWAN

Brodie Workman

Biologicals Innovation Manager
E: brodie.workman@corteva.com
P: 204-724-7197

5 EASTERN MANITOBA

Brett Buick

Biologicals Innovation Manager
E: brett.buick@corteva.com
P: 431-323-0738

6 SOUTHERN ONTARIO

Tuesday Kristiansen

Biologicals Innovation Manager
E: tuesday.kristiansen@corteva.com
P: 226-821-5259

NOTES

Questions?
Visit your local crop protection retailer.
Contact us at Corteva.ca/contact
follow us @CortevaCA

Refer to product label for complete use instructions.

Visit us at **corteva.ca**

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