NEXTA™

START.
GROW.
FINISH.

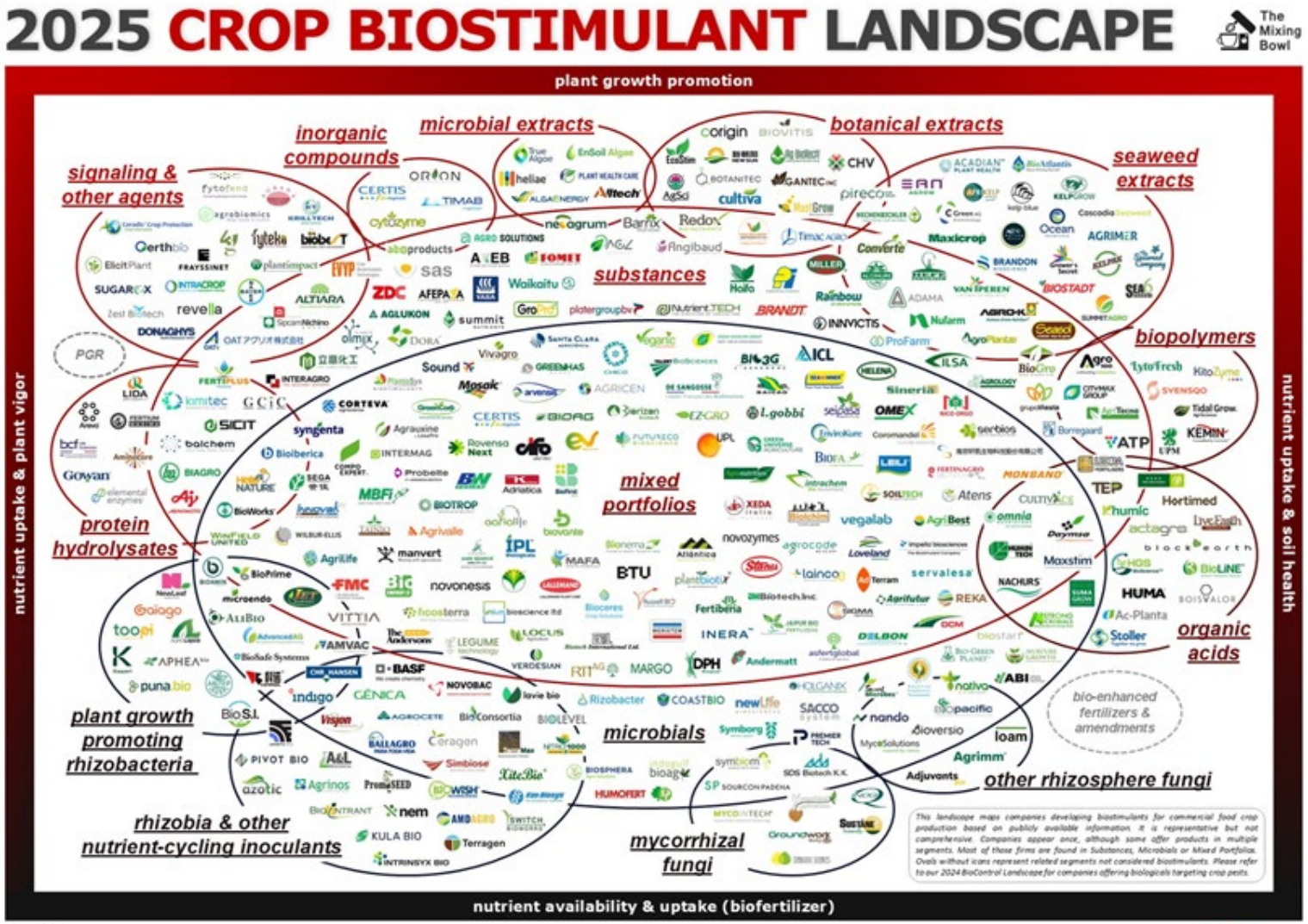
Nexta Biologicals – Winter Meeting

March 31, 2026

CORTEVA™ agriscience biologicals

Insert Program, Group, or Tagline (using: Insert tab > Header & Footer)

Who is still here? How do you build trust?



Chris Taylor
chris@mixingbowlhub.com

www.MixingBowlhub.com

NEXTA Biologicals

- Exclusive Pioneer brand of Biologicals
- Addressing abiotic stresses and other agronomic concerns with new tools

- NEXTA was launched in the US Midwest in 2025. Available in Canada for 2026.

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What are biologicals?

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, while others are inspired from natural materials.

Biological Segments:

- **Nutrients - macro & micro-nutrients**
- Organic acids
- Amino acids
- **PGRs - Plant Growth Regulators**
- Microbial agents
- Seaweed extracts etc.

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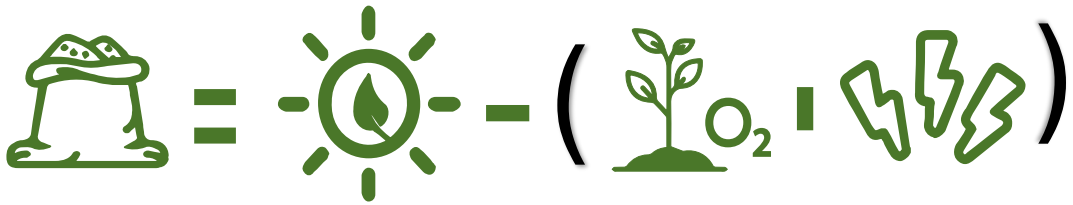
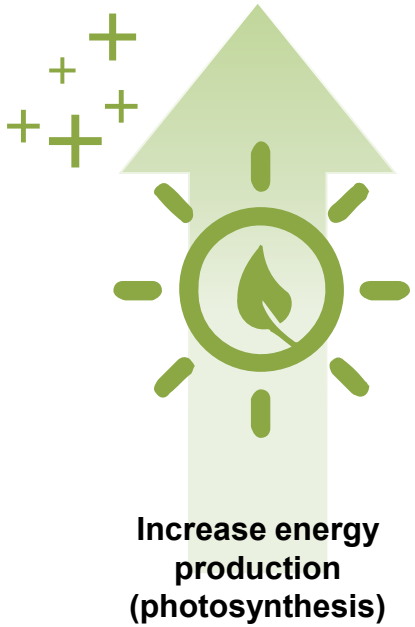
The Fundamentals of Biologicals

How is yield built?



Yield | Photosynthesis | Maintenance | Stress Losses

How to produce more?



Increase energy production (photosynthesis)

Minimize stress

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What Are Plant Growth Hormones?

Plant Hormones (also known as phytohormones) are small signaling molecules that impact all aspects of plant growth & development

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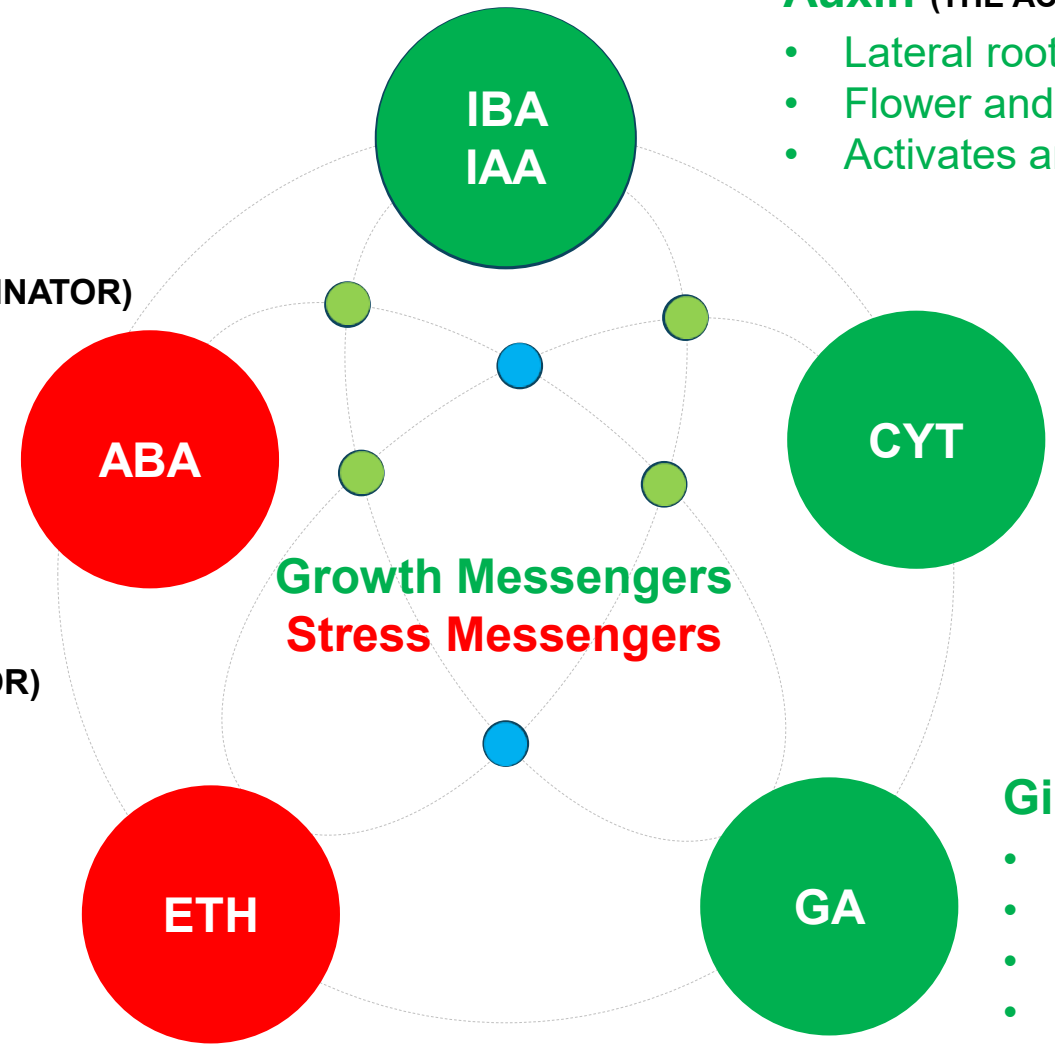
Five Major Plant Hormones:



Auxin (THE ACTIVATOR)

- Lateral root development
- Flower and fruit development
- Activates and directs sugar movement

Cytokinin (THE DISPATCHER)

- Cell division
- Above ground branching and growth
- Sugar transport
- Promotes chlorophyll synthesis
- Promotes stomata opening

Gibberellin (THE SIZER)

- Cell elongation
- Induces germination
- Fruit sizing = sink size
- Increases pollen grain fertility

Abscisic Acid (THE TERMINATOR)

- Stomatal regulation
- Seed dormancy
- Promotes ripening

Ethylene (THE REGULATOR)

- Promotes ripening
- Abscission (senescence)
- Stimulates aging

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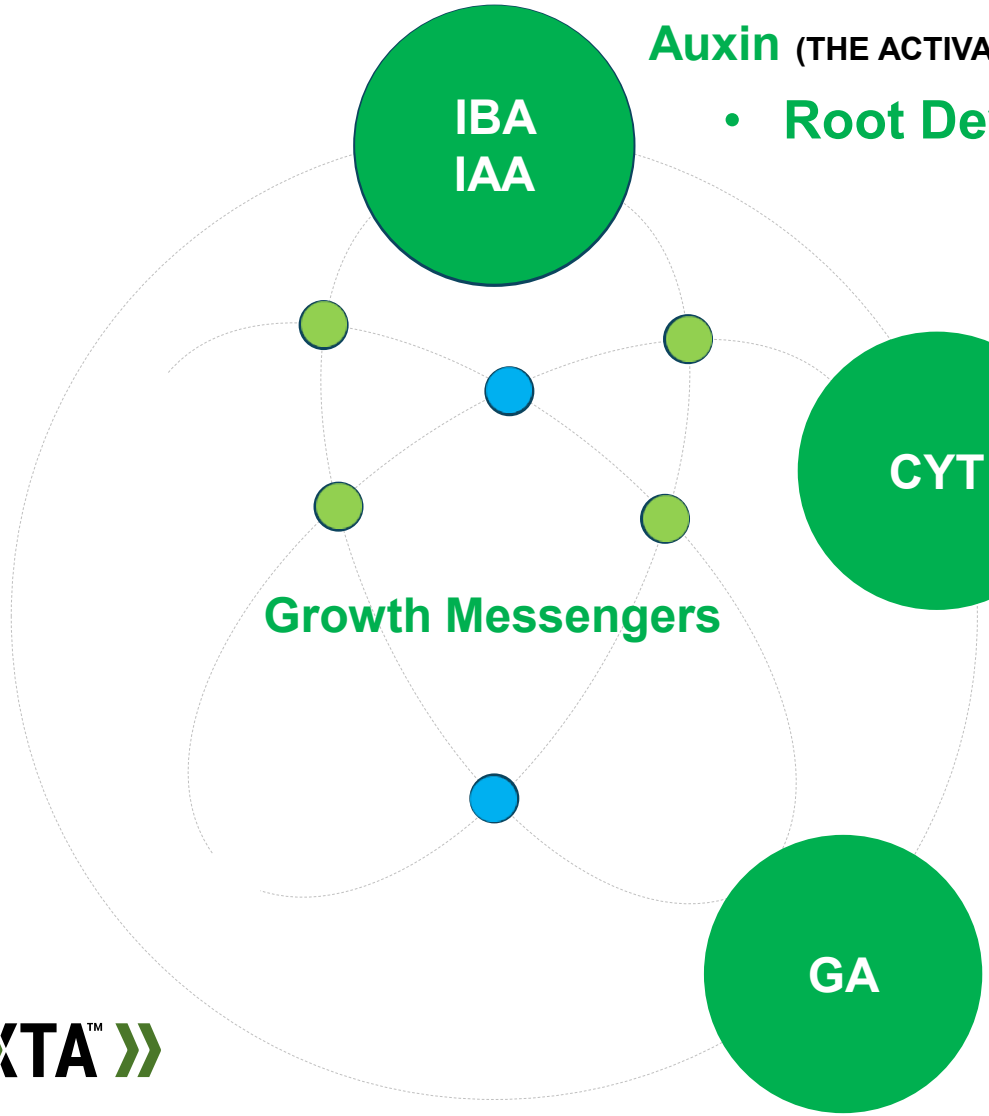
Five Major Plant Hormones:



Auxin (THE ACTIVATOR)

- Root Development

Cytokinin (THE DISPATCHER)

- Shoot Development

Gibberellin (THE SIZER)

- Germination & Elongation

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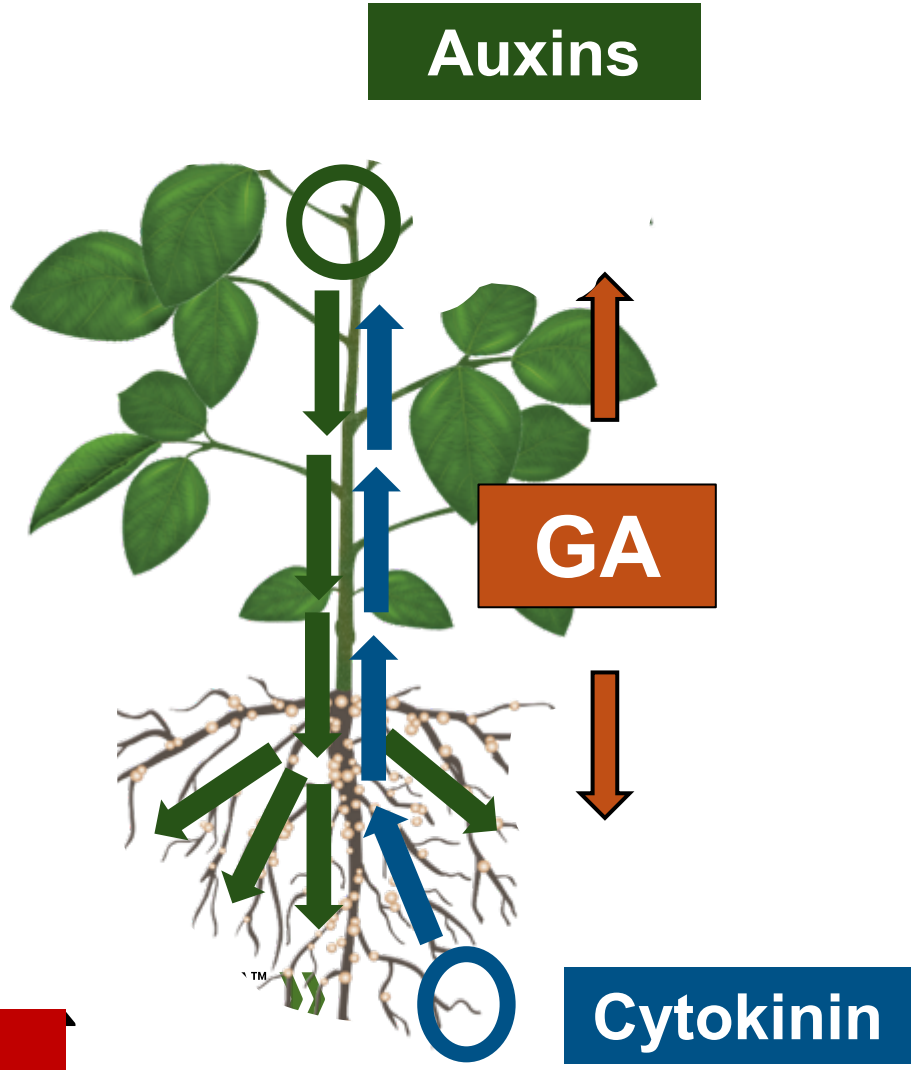
Growth Hormones



Auxins - IBA & IAA

Produced in the stem of the plant & feeds the roots

Cytokinin

Produced in the roots of the plant & feeds the stem

Gibberellic Acid

Promotes elongation of cells during vegetative & reproductive stages

Team Stress Hormones

Team Growth Hormones

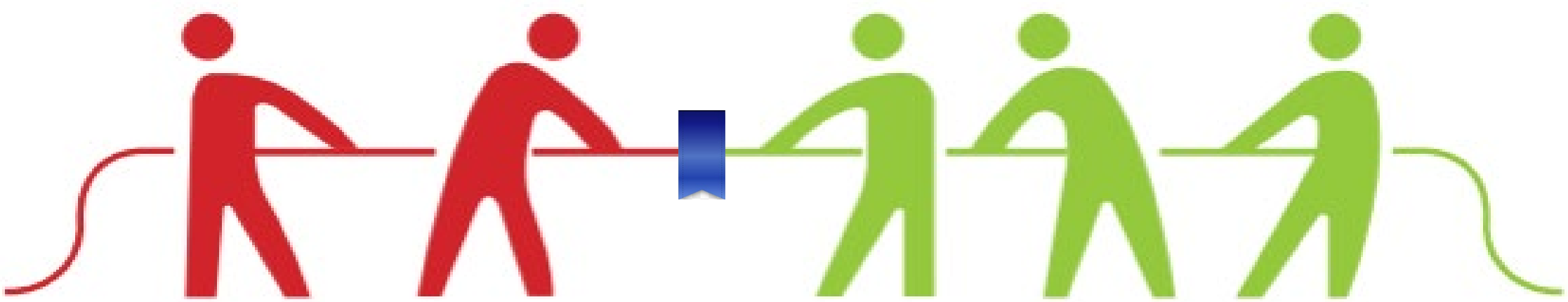
Ethylene

Abscisic Acid

Auxin

Cytokinin

Gibberellin



“Regulator”

“Finisher”

“Root”

“Youth”

“Sizer”

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Seaweed vs. Bio-synthetic Hormones

Product	Auxin		Gibberellic Acid	Cytokinin	Guaranteed Analysis
	IAA	IBA	GA3	Kinetin	
Nexta Stand	**50ppm**	**50ppm**	**50ppm**	**90ppm**	**YES**
Nexta Spark	**-**	**-**	**-**	**400ppm**	**YES**
Seaweed extract (Ecklonia maxima)	-	-	77ppm	-	No
Seaweed extract Ascophyllum nodosum	-	-	451ppm	-	No
Seaweed extract Undaria pinnatifida Batch 1	14ppm	-	9.7ppm	-	No
Seaweed extract Undaria pinnatifida Batch 2	8ppm	7ppm	135ppm	4ppm	No

*seaweed extracts were analyzed during the development of internal products

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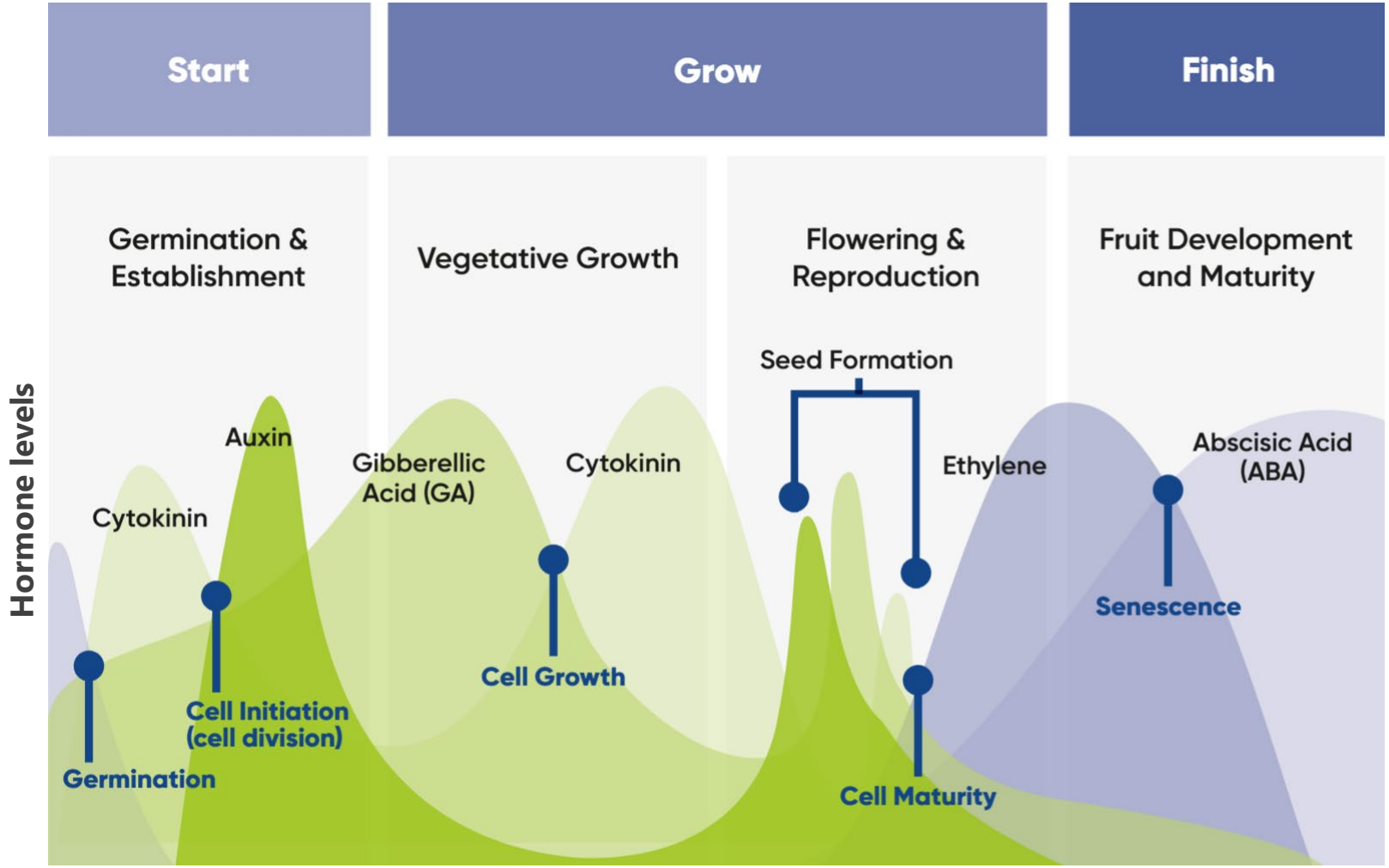
PLANT HORMONE CYCLE



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Steady State Hormone Levels Defines the Plant Phenotype

Prescriptive Biologicals

Biologicals are not a "one size fits all" approach, they are <u>prescriptive</u>

- Several factors influence the success of a biological product:
  - Crop stage
  - Vigour
  - Nutrient & Resource Limitations
  - Environmental Factors
  - Application Timing

- We need to look at the **challenge** we are facing and match it with a **biological solution**.

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When to apply plant hormone products to your crop

Seed Treatment / In-Furrow

Jump-start germination

Overcome cold soils

Herbicide / Early Veg

Reduce herbicide flash

Promote shoot and root growth

Manage physical crop stress

Fungicide / Flowering

Reduce heat blast

Promote flowering and seed set

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START

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Insert Program, Group, or Tagline (using: Insert tab > Header & Footer)

Seed Treatment/ Foliar

Nexta Stand
Plant Growth

Ingredients:

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

Product size: 2 x 10 L case

Timing/Rate(s):

In-Furrow/Foliar – 200ml/ac (50 acres per jug)

ST – 125ml/100lbs of seed

Features & Benefits

- Accelerates and increases root & shoot development
- Improved germination (In-Furrow)
- Balance and improved plant growth

Application

- Ideal timing - Seed Treatment/In-Furrow
- Can be used in-tank with Herbicide

Focus Crops

- **Corn: In-Furrow**
- **Cereals: Seed Treatment**
- **Canola, Cereals, Corn: Foliar – Herbicide**

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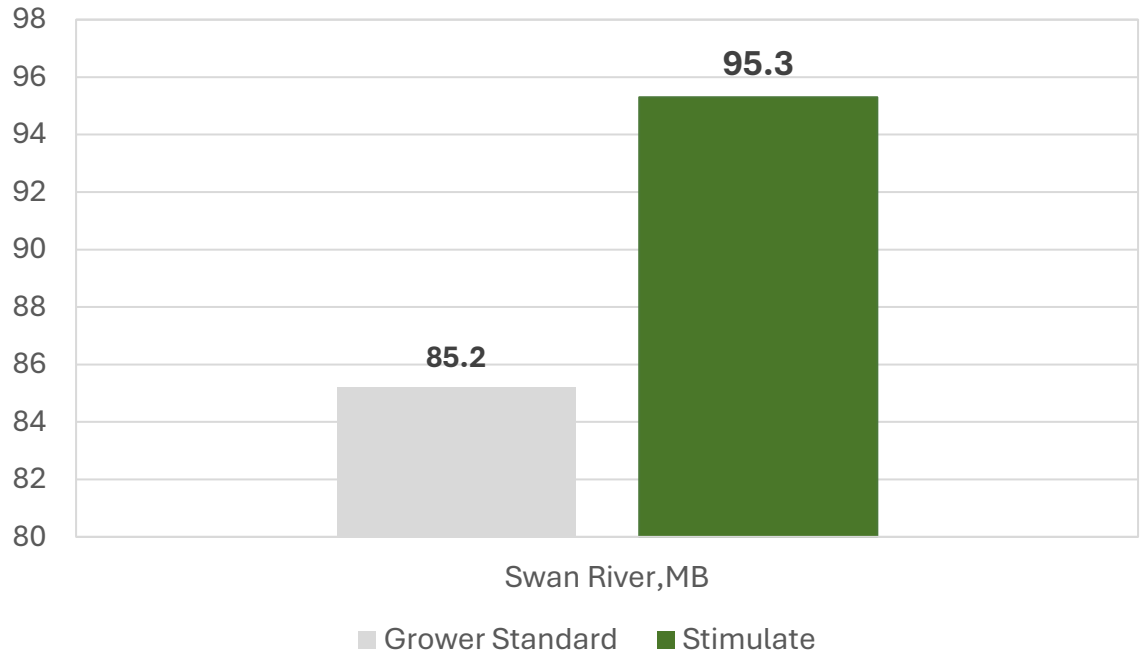
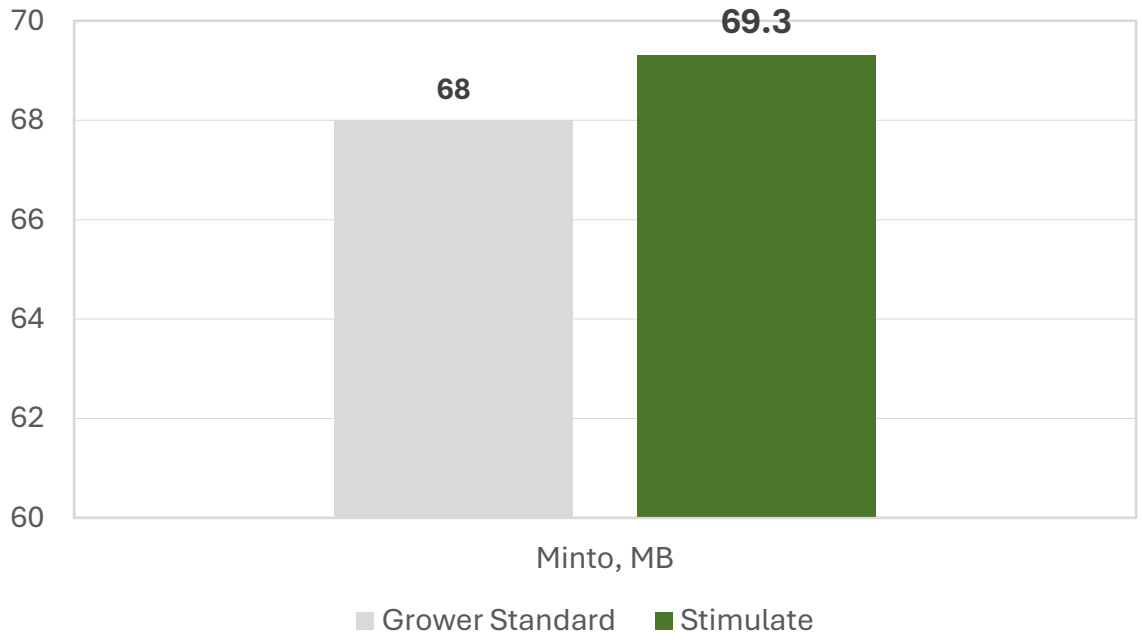
Nexta Stand – Wheat Trials - 2025





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Insert Program, Group, or Tagline (using: Insert tab > Header & Footer)

Foliar

Nexta Sharp
Plant Growth

Ingredients:

- **Cytokinin (0.15%)**
- **Indole-3-butyric acid (0.85%)**

Product size: 2 x 10 L case

Timing/Rate(s):

In-Furrow/Foliar – 65ml/ac (150 acres per jug)

- up to 90 ml/ac (110 ac/jug)

Features & Benefits

- Accelerates and increases root & shoot development
- Balance and improved plant growth

Application

- Can be used in-tank with Herbicide

Focus Crops

- **Canola, Cereals, Corn - Foliar – Herbicide**

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Nexta Sharp

Benefits of Applying Next Sharp:

- Contains two Growth Hormones (Cytokinin & Auxin)
- Cytokinin – “Cell Division” - Promotes Shoot Development
- Auxin – “Cell Initiation” - Promotes Root Growth
- Push Early Season Growth
- More Competitive Crop – Early
- Helps Manage Early Stress by Focusing on Growth

Nexta Sharp

Benefits of Applying Next Sharp:

- Foliar Application - Add in Herbicide Tank-Mix
- Ease of Compatibility
- Fields with Good Fertility – High Yield Potential
- Focus Crops – Corn/Canola/Cereals
- **Standard – 65ml/ac (150 acres per jug)**
- **Up to 83 – 100 ml/ac (120 – 100 ac/jug)**

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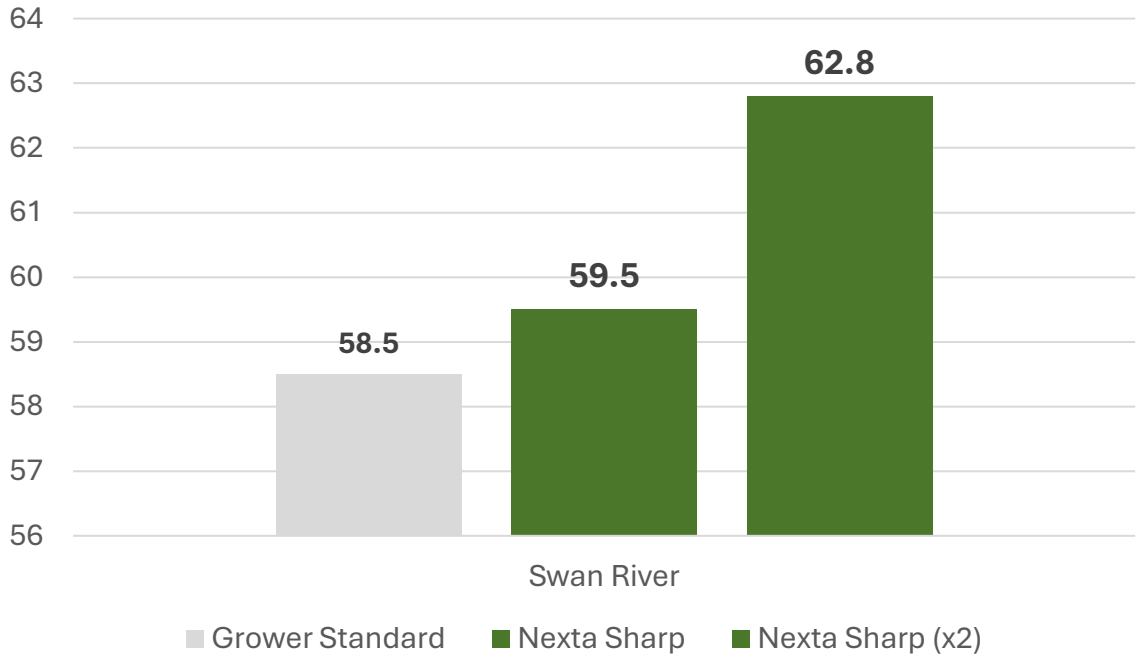
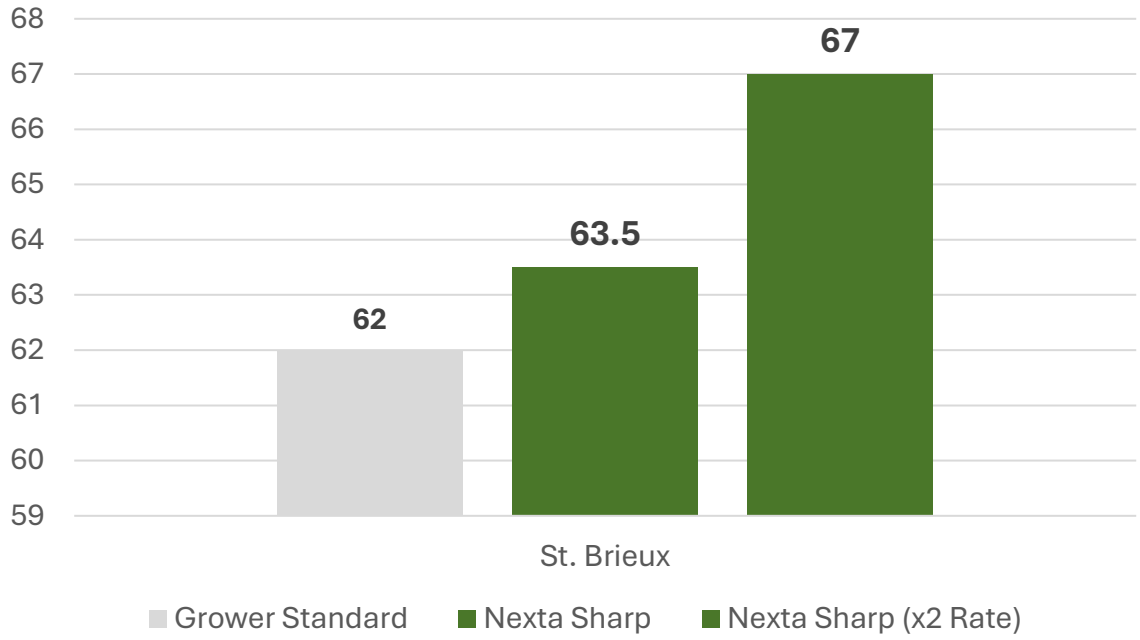
Nexta Sharp – Canola Trials - 2025





Profit Per Acre:

@60ml = $8.33

@120ml = $46.56

Profit Per Acre:

@60ml = $14.83

@120ml = $55.66

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Foliar

Nexta Sheild+

Stress Management

Ingredients:

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

Product size: 2 x 10 L case

Timing/Rate(s):

Foliar – 250ml/ac – 500ml/ac

ST – 125ml per 100lbs of seed

Features & 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.

Application

- Can be used in-tank with Herbicide
- 24-72 hrs after physical damage

Focus Crops

- **Soybeans/Peas: ST & Foliar – Herbicide Timing**
- **After Physical Stress – Hail, Herbicide, Insect, wind, frost damage (all crops)**

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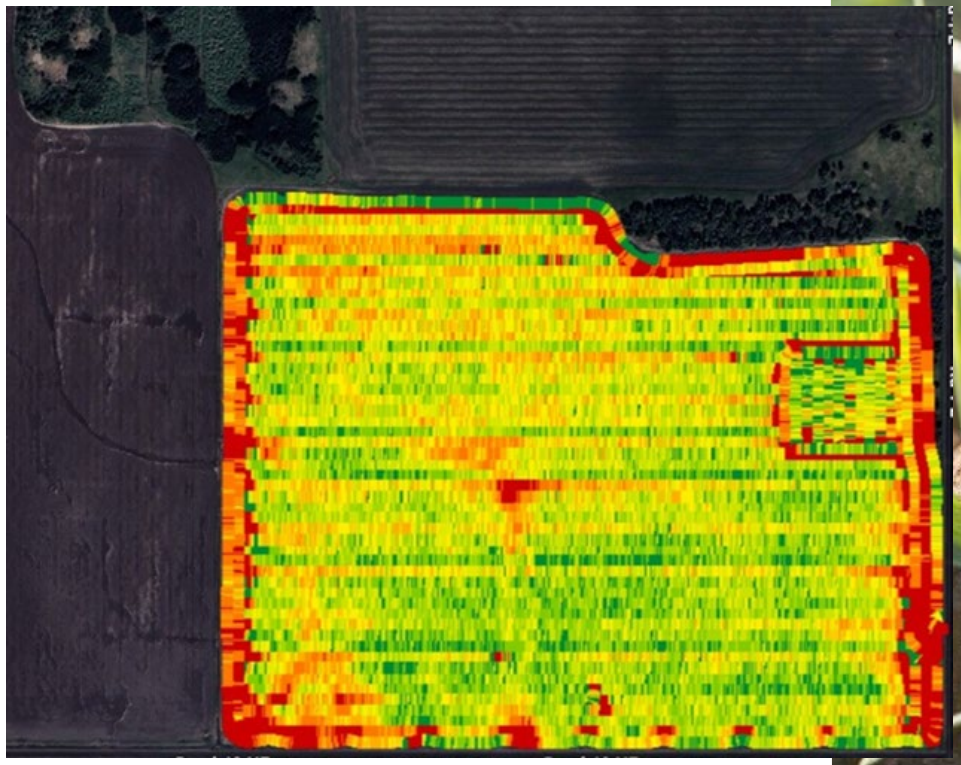
Nexta Sheild+

Stress Management



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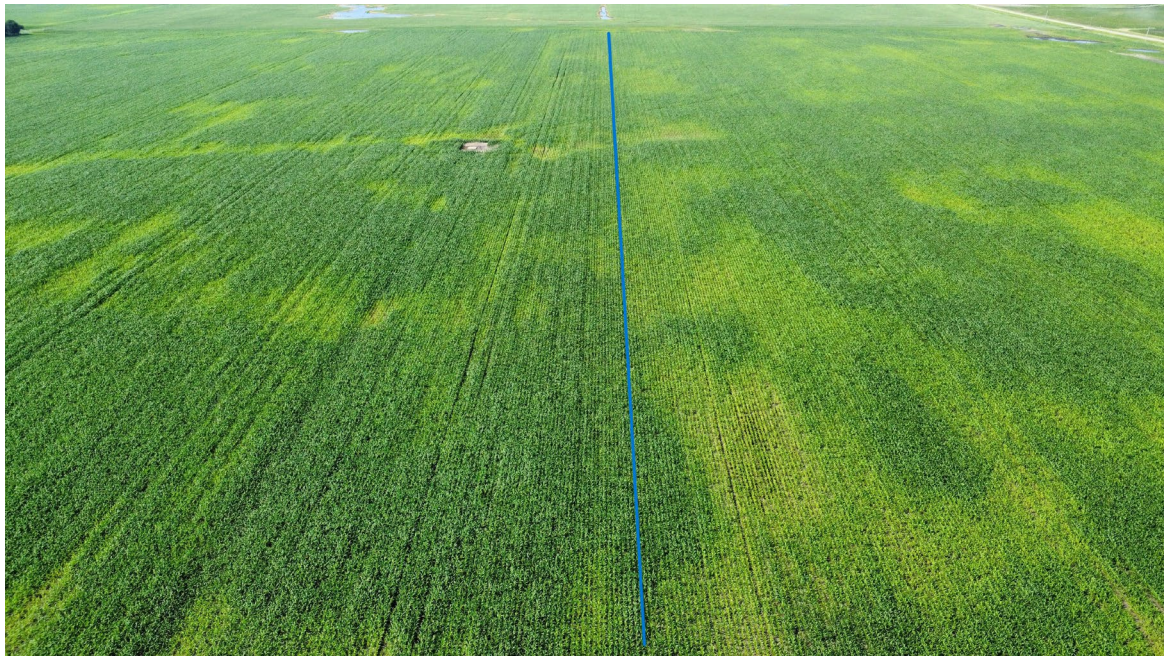
Nexta Sheild+

Stress Management

Hail Damage – Corn – East, MB



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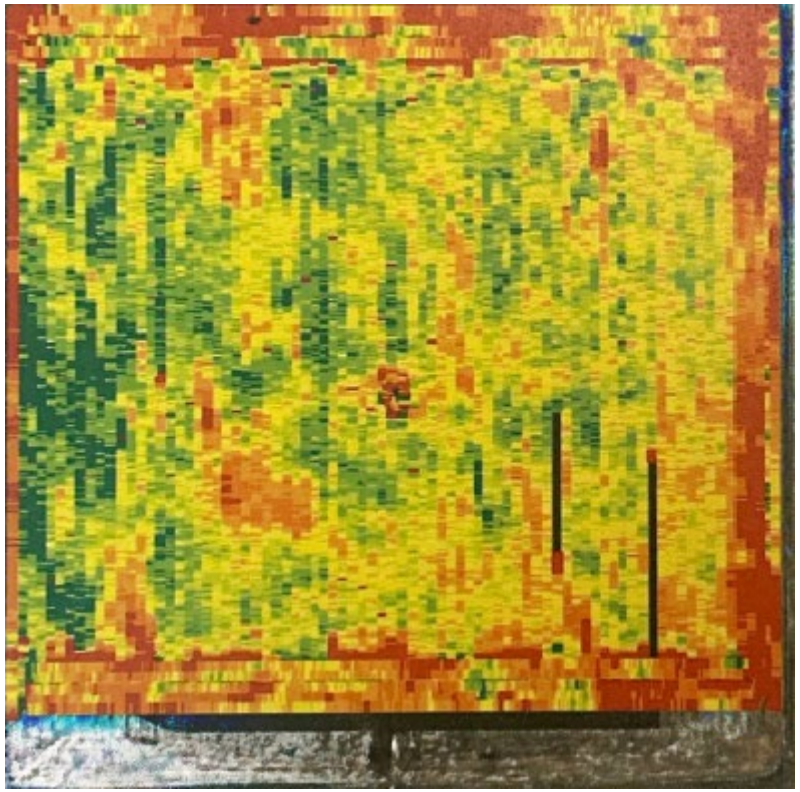
Nexta Sheild+

Stress Management



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Insert Program, Group, or Tagline (using: Insert tab > Header & Footer)

Seed Treatment/ Foliar

Nexta Spark

Heat Blast Protection

Ingredients:

- **Cytokinin (0.04%)**

Product size: 2 x 10 L case

Timing/Rate(s):

Foliar – 500ml/ac (20 acres per jug)

Features & Benefits

- Protects yield potential by reducing flower abortion during times of excess heat.
- Improves overall crop resilience by delaying premature senescence caused by heat loss

Application

- Ideal timing – Foliar – Fungicide Timing

Focus Crops

- **Canola: Foliar Fungicide Timing**

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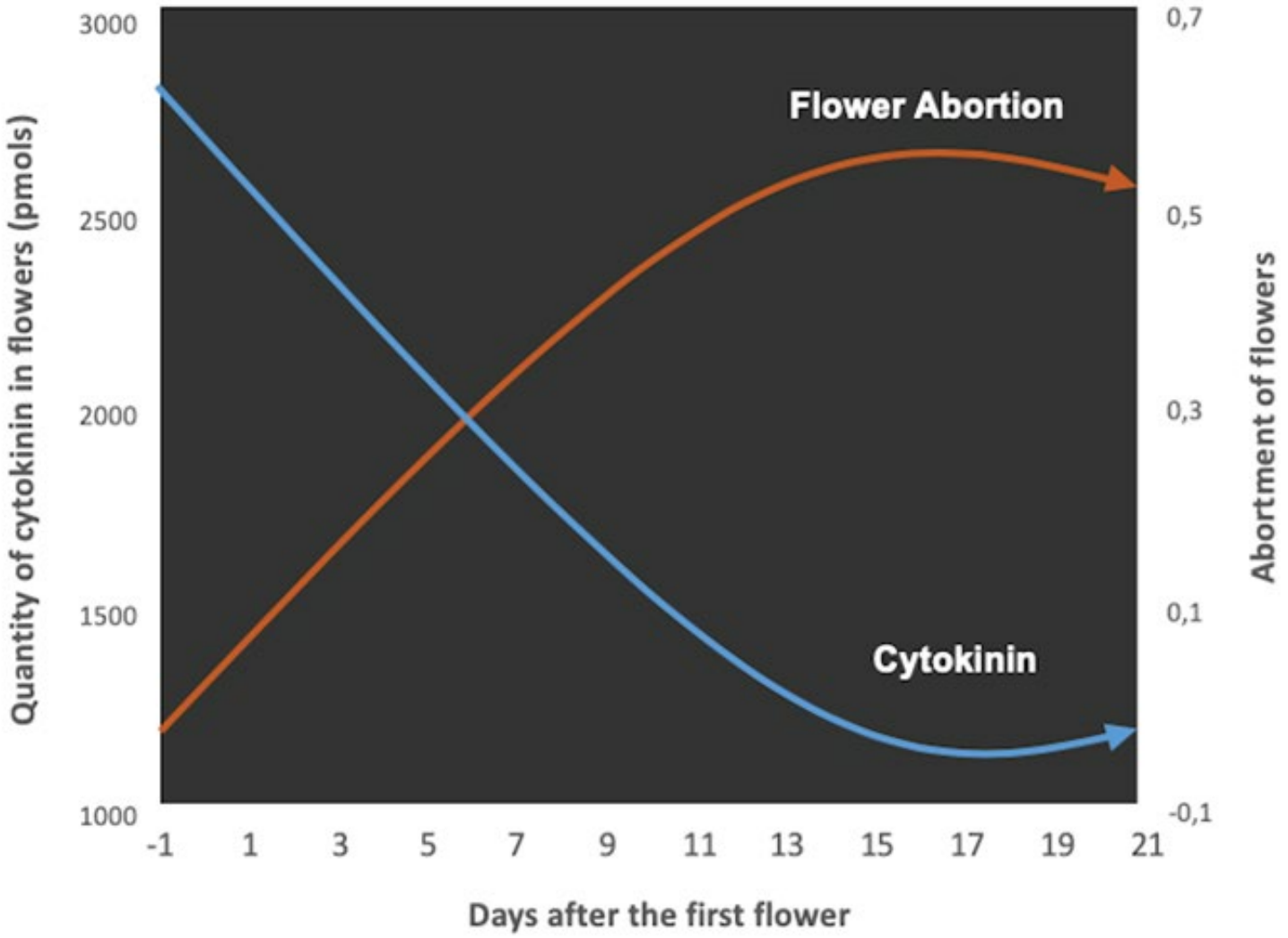
Hormonal deficiency during flowering



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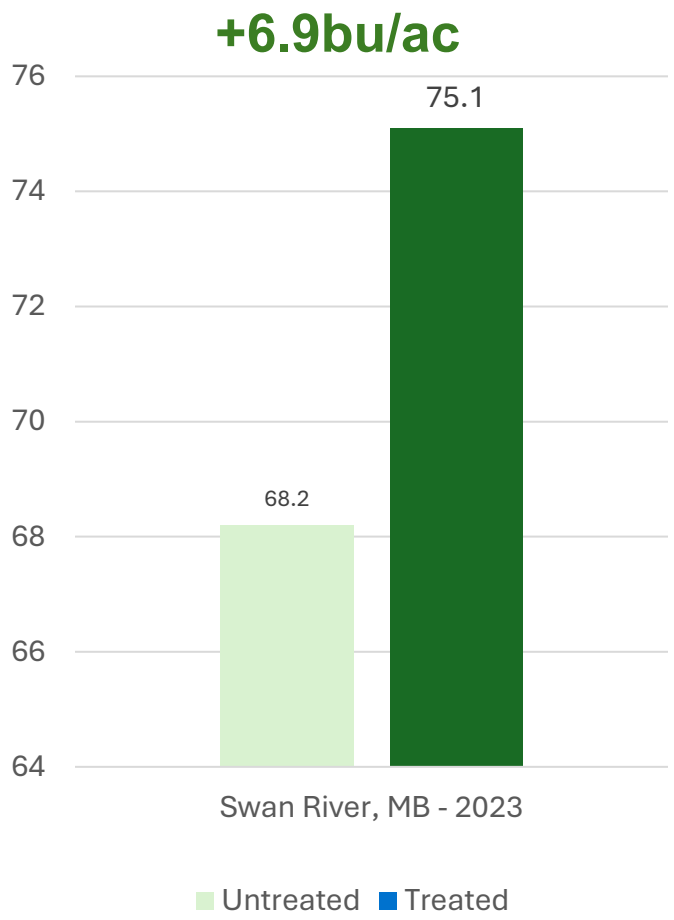
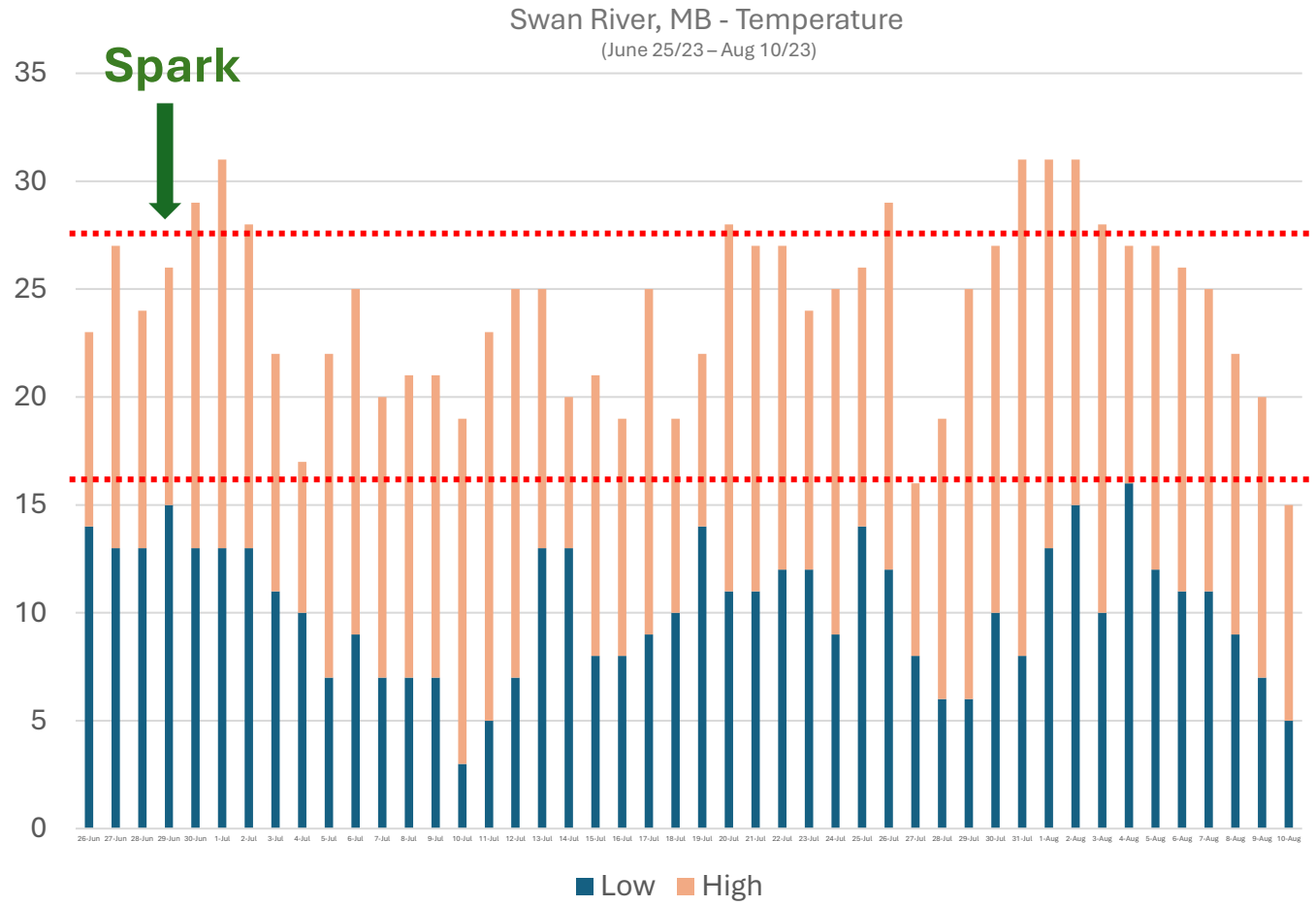
NEXTA Spark Trials – Canola - Swan River, MB





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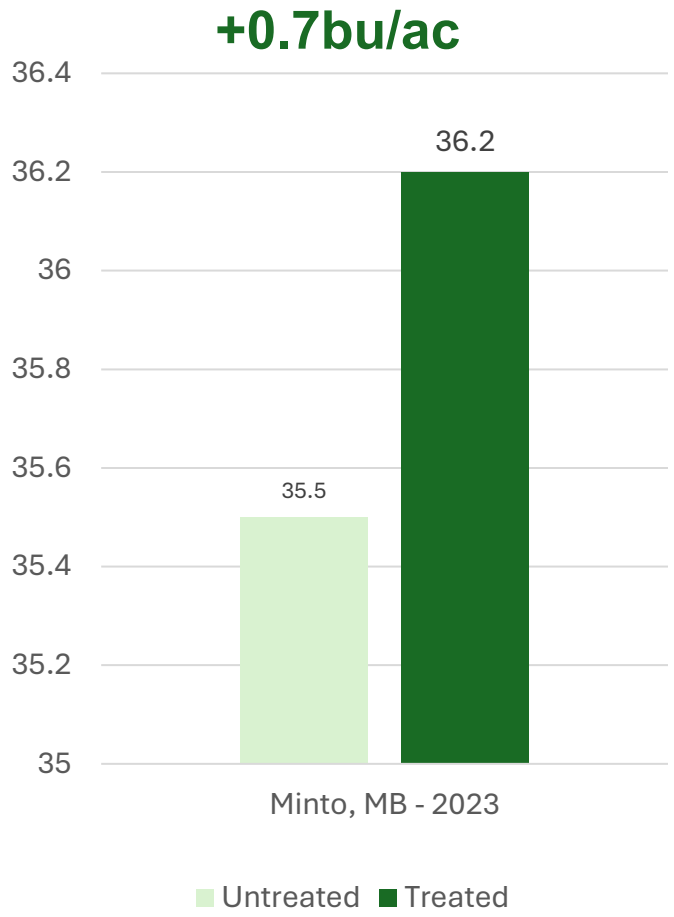
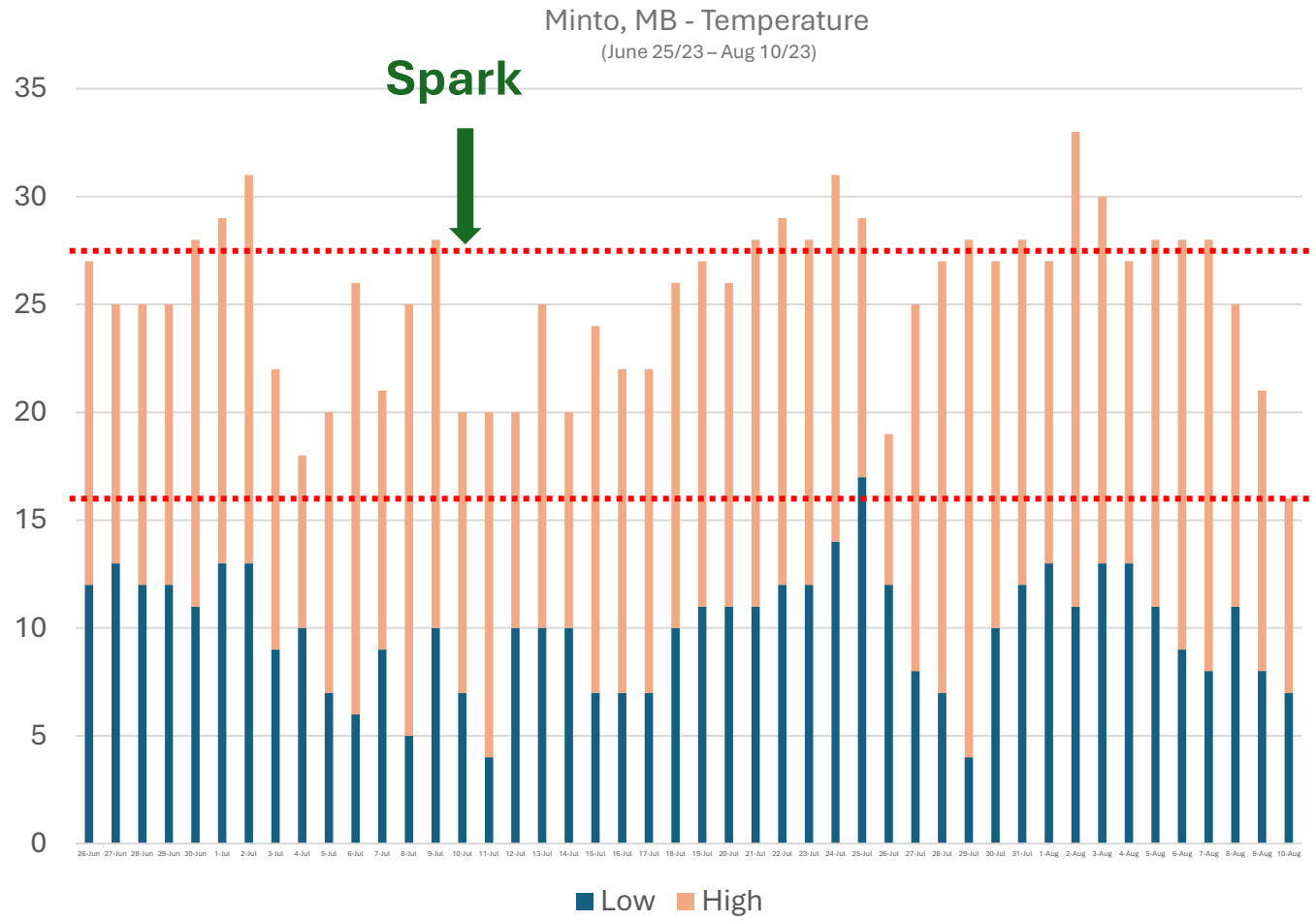
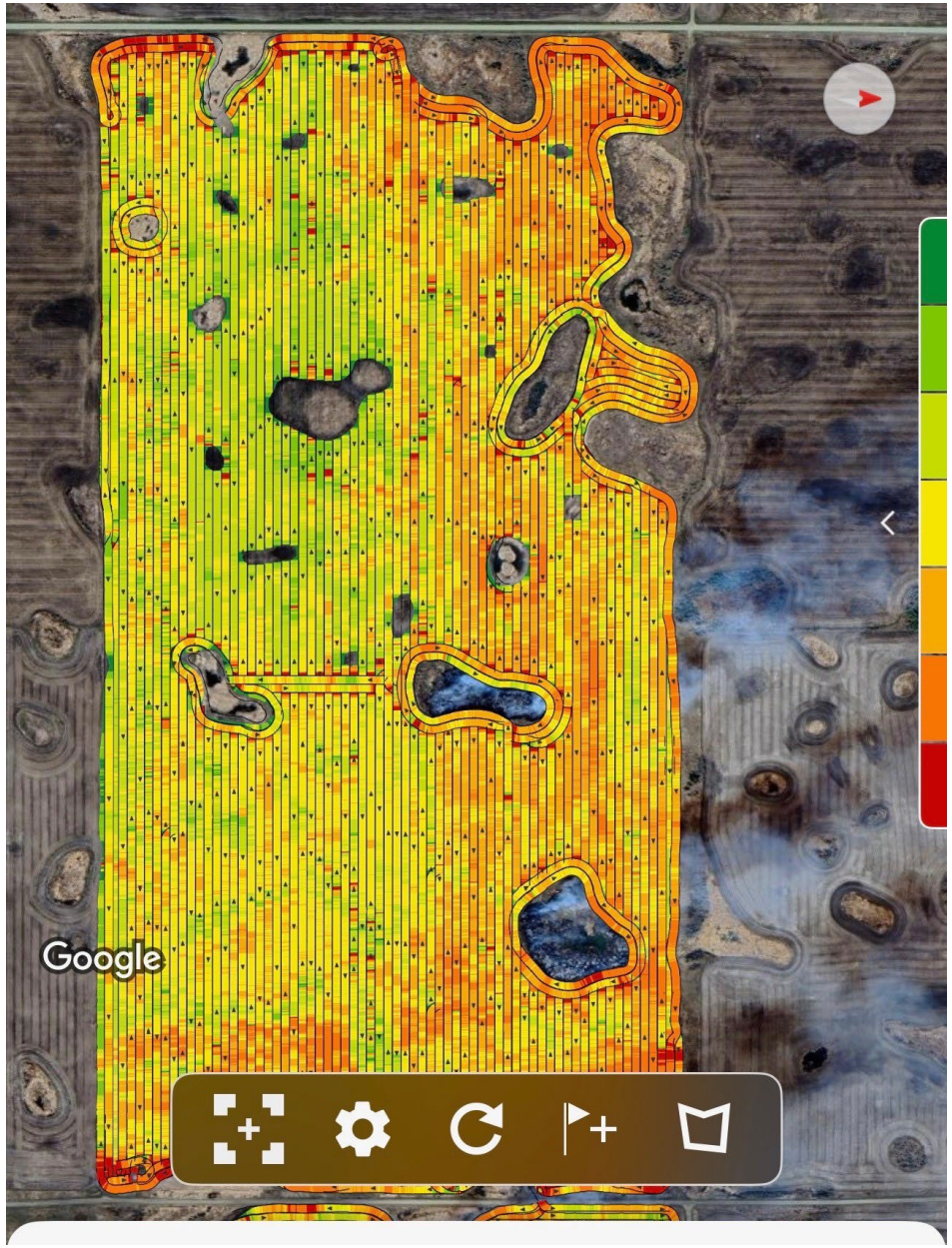
NEXTA Spark Trials– Canola - Minto, MB







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Product Breakdown

PRODUCT	FOCUS CROP(S)	OUTCOME
Nexta Stand	Cereals, Corn, Canola	Build Deeper Roots, Bigger Shoots and Improved Germination
Nexta Sharp	Cereals & Canola	Push Root & Shoot Development
Nexta Sheild+	Soybeans/Peas Physical Damage	Manage Early Season Stress - Herbicide Harshness
Nexta Spark	Canola	Protection from “Heat Blast”

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What is NEXTA Stout?

NEXTA Stout contains systemic compounds that function to stimulate the plants natural defenses against abiotic stresses, while supporting vigorous growth.

NEXTA™ STOUT

Guaranteed Analysis (By Wt.):
Choline Chloride…... ….....15.00%
Salicylic Acid… ……..…….....5.20%

Choline Chloride

- Contributes to osmoregulation to enhance a plants ability to withstand environmental stresses (salinity, drought, extreme temperatures)
- Increases net photosynthetic rate within the plant
- Keeps water in the plant when the plant is under stress

Salicylic Acid

Salicylic Acid is a critical plant hormone responsible for:

- Activation of plant defence mechanisms
- Regulation of plant growth development by enhancing tolerance to drought/cold/salinity
- Regulating physiological processes to help plants cope with abiotic stresses

Salicylic Acid acts as a “signal molecule” to help plants withstand challenging conditions by triggering biochemical reactions within the plant to activate defense responses and stress tolerance mechanisms.

What does SA protection look like?

CONTROL

+SA

Using NEXTA Stout

- A **proactive** approach of NEXTA Stout will ensure strong plants that can endure extreme conditions.

Recommended Application Timing:

Grow (Foliar at herbicide or fungicide timing)

Application rate:

Wheat, corn: 60 - 75 ml/ac

Soybeans, pulses (lentils, peas), canola: 60 – 105 ml/ac

Water volume:

Ground: minimum: 40 L/ac or 10 US GPA
best results – 80 L/ac or 20 US GPA

Air: minimum: 8 L/ac or 2 US GPA
best results – 20 L/ac or 5 US GPA

Product size:

2 x 10 L case

Product Breakdown – NEW!

A GAME-CHANGING DELIVERY SYSTEM

There are three primary soil components. The first two are near and dear to classically-trained agronomists. The third is an entirely new realm that we're continuing to discover.

1) CHEMICAL.
Soil chemical properties like cation exchange capacity, soil pH, and base saturation.

2) PHYSICAL.
Soil physical properties like soil texture, colour, structure, porosity, and density.

3) BIOLOGICAL.
The health and vibrance of soil microbiology, which is the engine that drives it all!

Several products featuring supplemental microorganisms to improve soil microbiology have been introduced, but they all share a common challenge. Keeping the microorganisms viable long enough to get them efficiently delivered to the soil. The NEXTA SPEEDBOX, powered by Bio-Capsule™ Technology, is a game changer.*

Microorganisms are stored in a food-grade, sealed Bio-Capsules absent of oxygen and water, until right before you're ready to plant. Even if you've tried other supplemental microorganisms before, the convenience, consistency, and performance of the NEXTA SPEEDBOX is a whole new ballgame.

* Bokmeyer, J. (2024). Bio-Capsule Delivery System coverage of Active Ingredients: A field study of delivery of dry seed actives through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

NEXTA™ SPEEDBOX C1

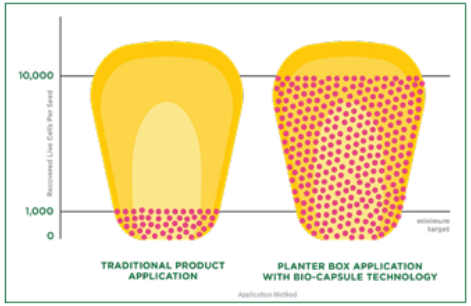
NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM FOR CORN

POWERED BY BIO-CAPSULE TECHNOLOGY™ INNOVATION DELIVERY SYSTEM

Bio-Capsule™ Technology: a unique tool to deliver biologicals safely to the furrow. The patented delivery system makes it happen – more bushels for less.

BIO-CAPSULE = MORE LIVE CELLS PER SEED

To confirm even product distribution, seed lubricant plus the Terrasym® biological was applied per grower standard practice. Ag Ingenuity Partners' agronomists collected seed samples at various progress points during planting (20%, 50%, and 80% completion). NewLeaf Symbiotics scientists assessed the seed samples to confirm the living microbes found in Terrasym products were evenly distributed across large-scale commercial fields. Over 10,000 live cells per seed were found at each stage of planting, 10x more than traditional applications.*



OVER 10,000 LIVE CELLS PER SEED AT EACH STAGE OF PLANTING

LIVE CELLS PER SEED WITH TERRASYM FOR CORN

20% planted = 40,228
50% planted = 37,735
80% planted = 40,212

* Bokmeyer, J. (2022). Microbial Delivery System Effectiveness on Seed Treatments: A field study of planter box delivery coverage on seed through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

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Thank you!

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