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# CROP PERFORMANCE REPORT 2016

TECHNOLOGY PAST THE POINT OF NUTRITION™

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## TECHNOLOGY PAST THE POINT OF NUTRITION™

Active AgriScience Inc. supports the farming community by providing innovative, effective, and economical products that increase yields. A leader in plant nutrient and bioactive compound research and technology, Active AgriScience uses rigorous scientific methods to develop and enhance products to improve farm production and profits.

# 2016 3RD PARTY RESEARCH SITES

AGQUEST – Saskatoon, SK, Canada

AGQUEST – Elm Creek, MB, Canada

CROPVISE RESEARCH –St. Claude, MN, USA

NEW ERA AG - Swan River, MB, Canada

AGQUEST – Minto, MB, Canada

AGVISE RESEARCH – Grand Forks, ND, USA

UNIVERSITY OF MANITOBA – High Bluff, MB, Canada

UNIVERSITY OF MANITOBA – Carman, MB, Canada

SIMON FRASER UNIVERSITY –Burnaby, BC, Canada

# OUR CONCEPT

## TARGETING THE FOUR KEY GROWTH STAGES

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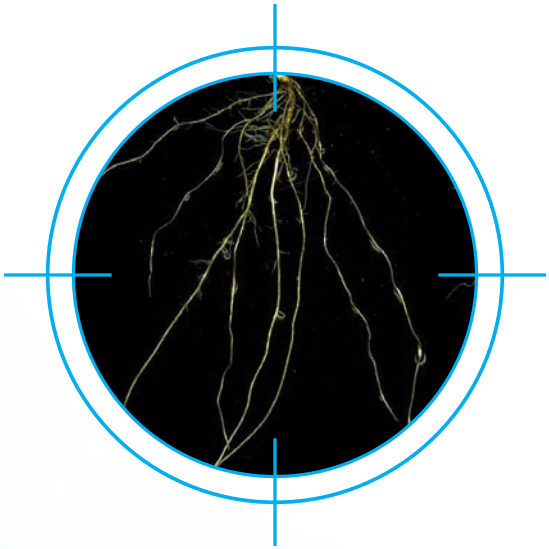
Intrinsic™
activated



# ENHANCED GERMINATION AND SEEDLING VIGOR

. . . . . .

# INCREASED PERFORMANCE UNDER STRESS CONDITIONS

Patent number: Canada: 2849585. USA: US 9,018,392 B1

Intrinsic™ activated

Smart molecule designed to enhance seed germination, root growth, seedling vigor, stress resistance and yield.

## WHAT TO EXPECT:

- STRONGER ROOT GROWTH. INTRINSIC™ induces the Indole Butyric Acid (IBA) pathway resulting in higher levels of IBA in tissues and earlier, quicker, root growth and development. In addition, it induces synthesis of zeatin, a cytokinin that promotes shoot growth. The resulting more robust INTRINSIC™ treated plants are better able to maintain strong growth under drought stress.
- REDUCED TRANSPIRATION: INTRINSIC™ helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem. INTRINSIC also helps to regulate stomatal function to reduce excess water loss.
- INCREASED WATER USE EFFICIENCY: INTRINSIC™ inhibits both ethylene synthesis and free radical formation under drought conditions. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. INTRINSIC treated plants have inherent resistance to these drought-induced changes and exhibit greater water use efficiency.
- INCREASED NUTRIENT MOBILIZATION & ABSORPTION: INTRINSIC™ increases secretion of root exudates into the rhizosphere leading to increased bound nutrient mobilization, availability, and root interception. INTRINSIC™ treated plants also show increased uptake of nutrients mobilized by mass flow.
- INCREASED PERFORMANCE UNDER STRESS CONDITIONS: INTRINSIC's simple molecular structure allows for its activity to be unaffected by unfavourable conditions. Its ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways allows plants to maximize their genetic potential under cold, wet or drought conditions.
- INCREASED FUNCTION UNDER WIDE RANGE OF pHs: INTRINSIC's contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. This property ensures that its' function and efficacy are preserved under various pH regimes.

## BENEFITS OF INTRINSIC™ COMPARED TO COMPETITOR PRODUCTS:

1. INTRINSIC™ is a simple organic molecule.
2. INTRINSIC™ is produced in a laboratory ensuring consistent quality while humic/fulvic products are obtained from various natural sources with variable quality profiles.
3. Application rates are at least 100 times lower than competing products.
4. Compatible with fertilizer and other agrochemicals.
5. Non-hazardous with no transportation or usage restrictions
6. Produces consistent results.

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activePRIME™

PROTECTED
SEEDS
.....
HEALTHY
SEEDLINGS

# active PRIME™

## PREMIUM SEED NUTRIENT DRESSING

Promotes germination with significantly greater root growth for hardier seedlings.

**GUARANTEED MINIMUM ANALYSIS:**

| | |
|---|---|
| Total Nitrogen (N) | 4% |
| Available Phosphate ($P_2O_5$) | 18% |
| Soluble Potash ($K_2O$) | 6% |
| Boron (B)(actual) | 0.05% |
| Copper (Cu)(actual) | 0.1% |
| Manganese (Mn)(actual) | 1.0% |
| Zinc (Zn)(actual) | 1.0% |

Intrinsic activated

**WHY TO USE:** Active Prime™ contains nutrients and bioactive molecules needed for your newly seeded crop to get off to a strong, healthy start. Active Prime™ is a seed coating that improves germination, boosts root growth, and protects seeds and seedlings from unfavourable environmental conditions. It fosters robust young plants primed to produce a greater yield.

**WHEN TO USE:** Prior to seeding wheat, corn, hops, canola, soybean, other pulses, tomatoes, and vegetables.

**HOW TO USE:** Apply as a seed nutrient dressing to wheat, canola or barley seeds at the rate of 4 ml/kg of seed. If applied alone, dilute with water (1:1 ratio) to ensure uniform coverage of seeds.

**HOW IT WORKS:** Active Prime™ is a dressing applied to seeds before planting. It contains nutrients, organic acids, and Active AgriScience's proprietary Intrinsic™ activation formula. Active Prime™ protects the seeds and allows the nutrients to be utilized, even in unfavourable conditions, producing an increased number of roots and deeper roots. This results in more robust seedlings, healthier plants, higher quality crops and greater yield.

**MIXING INSTRUCTIONS:**

1. Active Prime™ is designed to be applied as a seed nutrient dressing.
2. Seed coating can be done simultaneously with Active Prime™ and compatible agrochemicals. (See Compatibility Chart and only use compatible agrochemicals with Active Prime™.)
3. If using Active Prime™ without additional agrochemicals, use equal amounts of water and Active Prime™ (4 ml/kg) to sufficiently coat seeds.
4. Calibrate equipment to release the required amount of Active Prime™ and other agrochemicals based on seed flow rate.
5. Thoroughly mix seeds with the Active Prime™ (and other agrochemicals) mixture. A coloring additive allows a visual check to ensure all seeds are uniformly coated.
6. Let the treated seeds air dry for 5-10 min before seeding.

# active PRIME™

## PREMIUM SEED NUTRIENT DRESSING

BENEFITS: Enhances the seeds' ability to germinate and quickly produce more and stronger roots. This results in hardier seedlings, more capable of withstanding less than ideal environmental conditions. Ultimately, the increased number of robust plants, produces a higher crop yield. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

- ENHANCED GERMINATION Active Prime™ induces synthesis of zeatin, which is a cytokinin that promotes shoot growth, resulting in faster and higher rates of germination.
- STRONGER ROOT GROWTH: Active Prime™ induces the indole-3-butyric acid (IBA) pathway resulting in higher levels of IBA in tissues leading to earlier and quicker root growth and development. As a result, Active Prime™ treated plants are better able to maintain strong growth under drought stress.
- REDUCED TRANSPIRATION: Active Prime™ helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem, and also helps to regulate stomatal function to reduce excess water loss.
- INCREASED WATER USE EFFICIENCY: Active Prime™ inhibits both ethylene synthesis and free radical formation under drought conditions. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. Active Prime™ treated plants have inherent resistance to these drought-induced changes with greater water use efficiency.
- INCREASED NUTRIENT MOBILIZATION AND ABSORPTION: Active Prime™ increases secretion of root exudates into the rhizosphere that increase bound nutrient mobilization, availability, and root interception. Active Prime™ treated plants also show increased uptake of nutrients mobilized by mass flow.
- INCREASED PERFORMANCE UNDER STRESS CONDITIONS: Active Prime™ has a simple molecular structure that allows for its activity to be unaffected by unfavourable conditions, and its ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways allows plants to maximize their genetic potential under cold, wet or drought conditions.
- INCREASED FUNCTION UNDER WIDE RANGE OF pH: Active Prime™ contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. Therefore, its function and efficacy are preserved under various pH regimes.

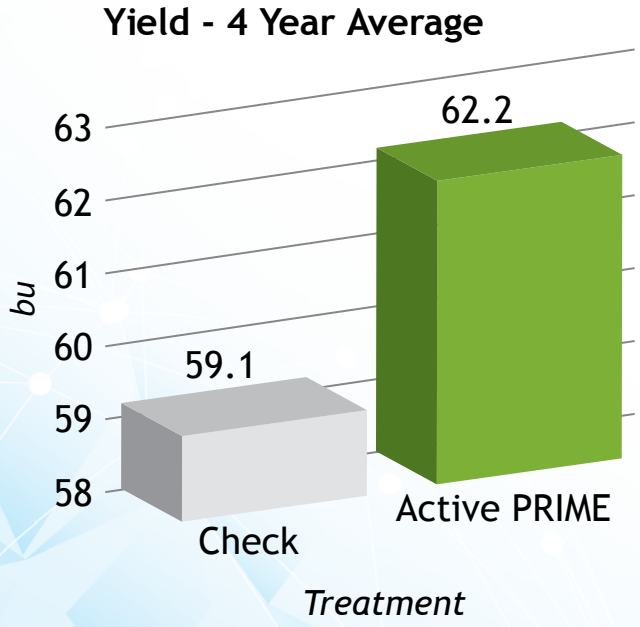
COMPATIBILITY: Compatible with most herbicides and fertilizers. Please see Compatibility Chart and conduct pre-testing if combination has not been previously used. Always do a jar test with pesticides and spray water to ensure compatibility as water quality can vary.

| Active PRIME | | |
|---|---|---|
| **SEED TREATMENTS** | **Active** | **Compatibility** |
| APRON MAXX RTA | | |
| | | |
| CRUIZER MAXX | S edaxane, | |
| | difenaconazole, | |
| PULSES | mefenoxam, | |
| | thiamethoxam | |
| | S edaxane, | |
| CRUIZER MAXX | difenaconazole, | |
| VIBRANCE BEANS | mefenoxam, | |
| | thiamethoxam | |
| | S edaxane, | |
| CRUZIER MAXX | difenaconazole, | |
| VIBRANCE CEREALS | mefenoxam, | |
| | thiamethoxam | |
| DIVIDEND XL RTA | | |
| INSURE CEREAL | | |
| RANCONA APEX | | |
| | Tebuconazole, metalaxil, | |
| RAXIL PRO | prothioconazole, | |
| | ethoxylated tallow alkyle | |
| | | |
| | amines, 1, 2 propanediol | |
| TRILEX EVERGOL | Trioxystrobin, Metalaxyl | |
| VIBRANCE QUATTRO | Difenoconazole | |
| VITAFLO 280 | | |

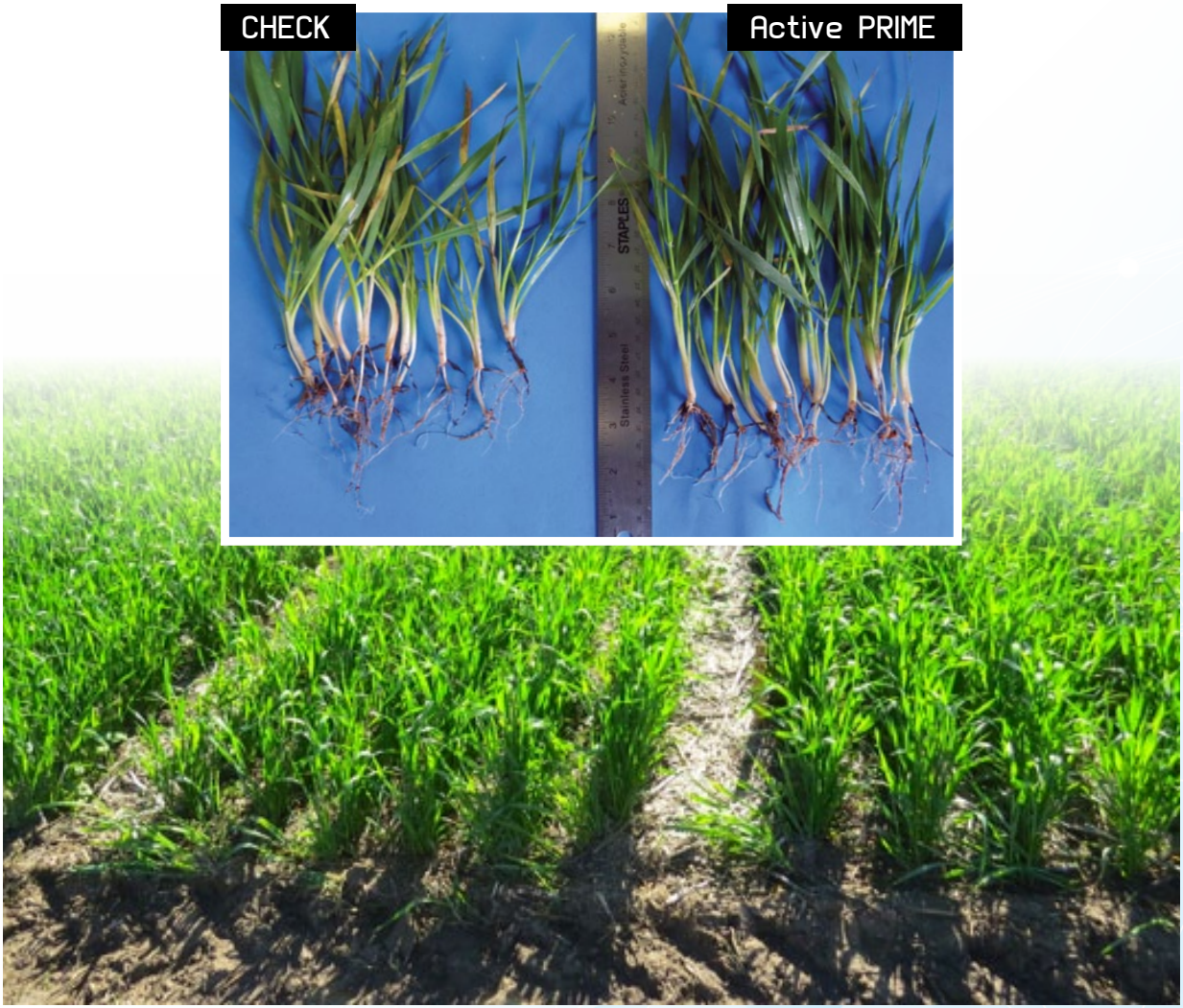
## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 77 | 63.3 | 50.9 | 45.3 | 59.1 | |
| Active PRIME | 81 | 66.1 | 54.2 | 47.3 | 62.2 | 5.1 |



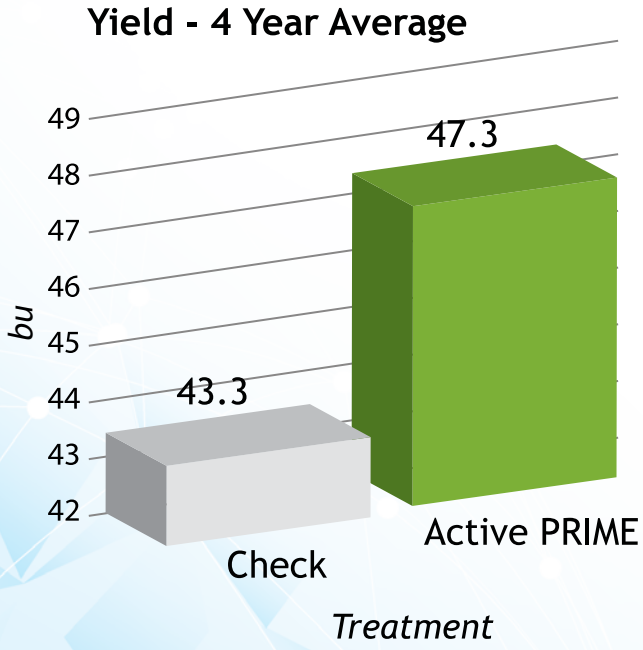
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK



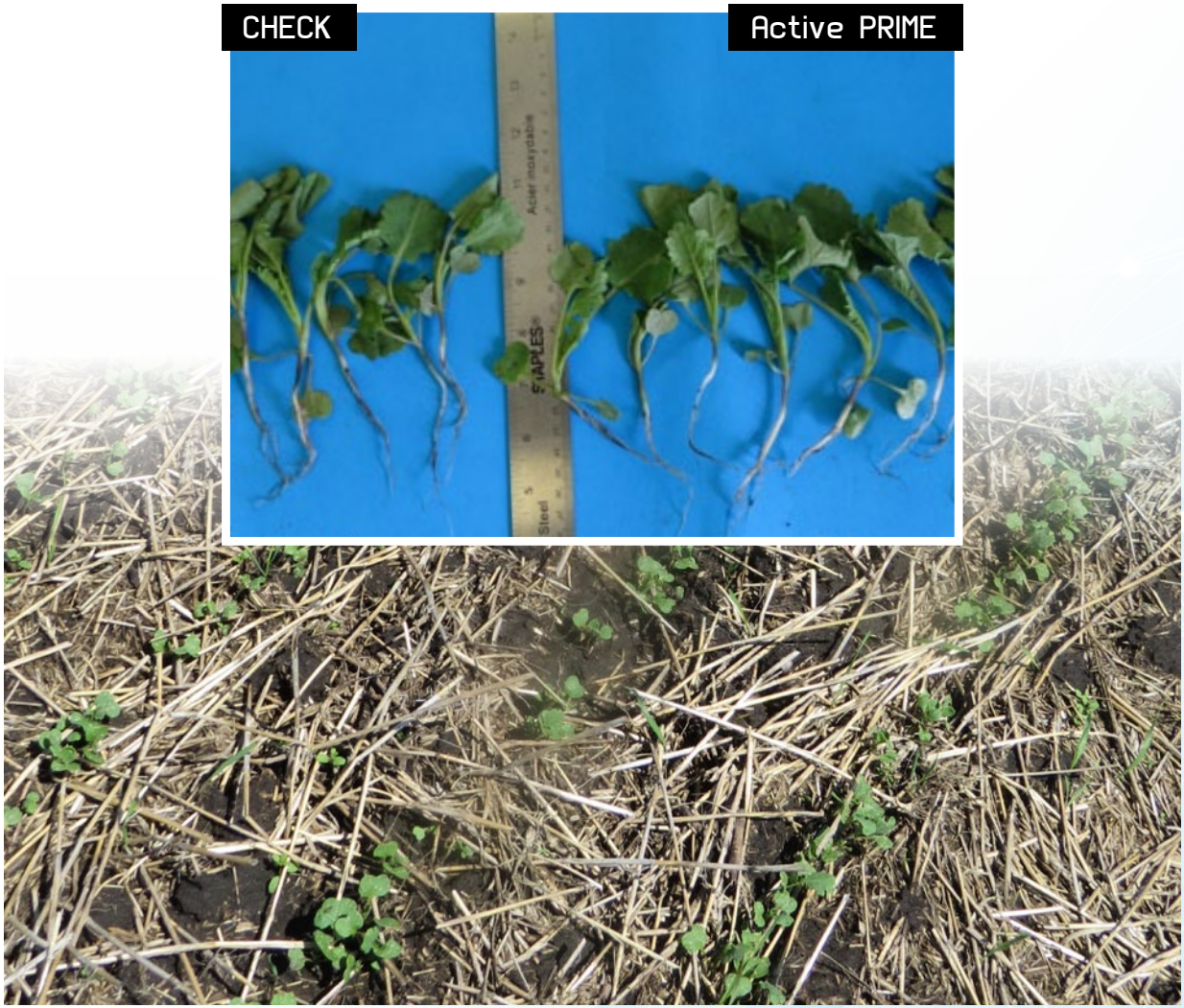
## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 45 | 52 | 42.3 | 33.8 | 43.3 | |
| Active PRIME | 49 | 59.6 | 44.7 | 35.7 | 47.3 | 9.2 |



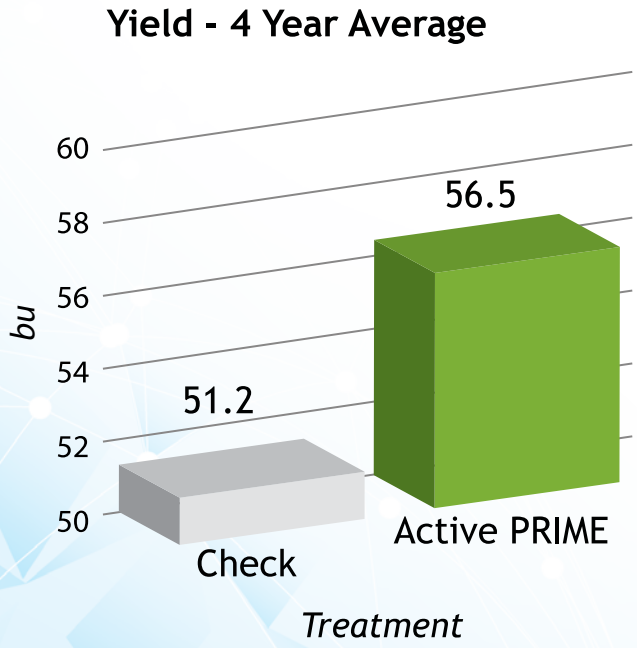
RESEARCH CONDUCTED BY AGQUEST, MINTO, MB



## YIELD DATA - 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 68 | 10.1 | 58.1 | 68.7 | 51.2 | |
| Active PRIME | 72 | 22.8 | 60.6 | 70.4 | 56.5 | 10.2 |

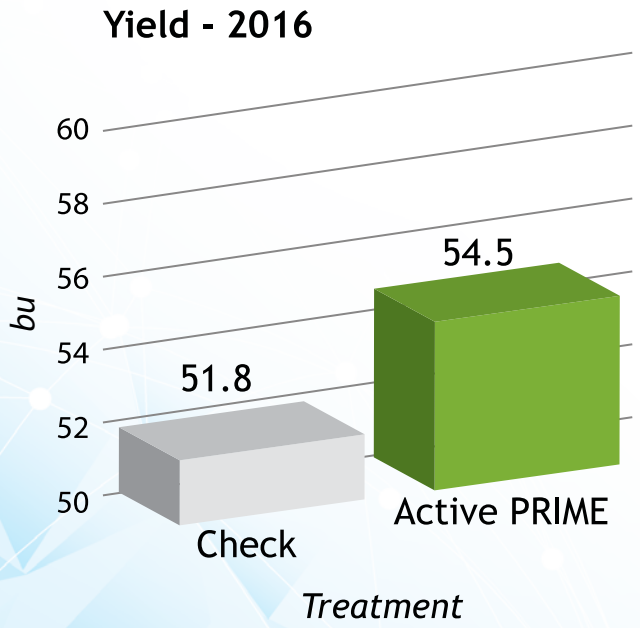


RESEARCH CONDUCTED BY AGVISE RESEARCH, GRAND FORKS, ND

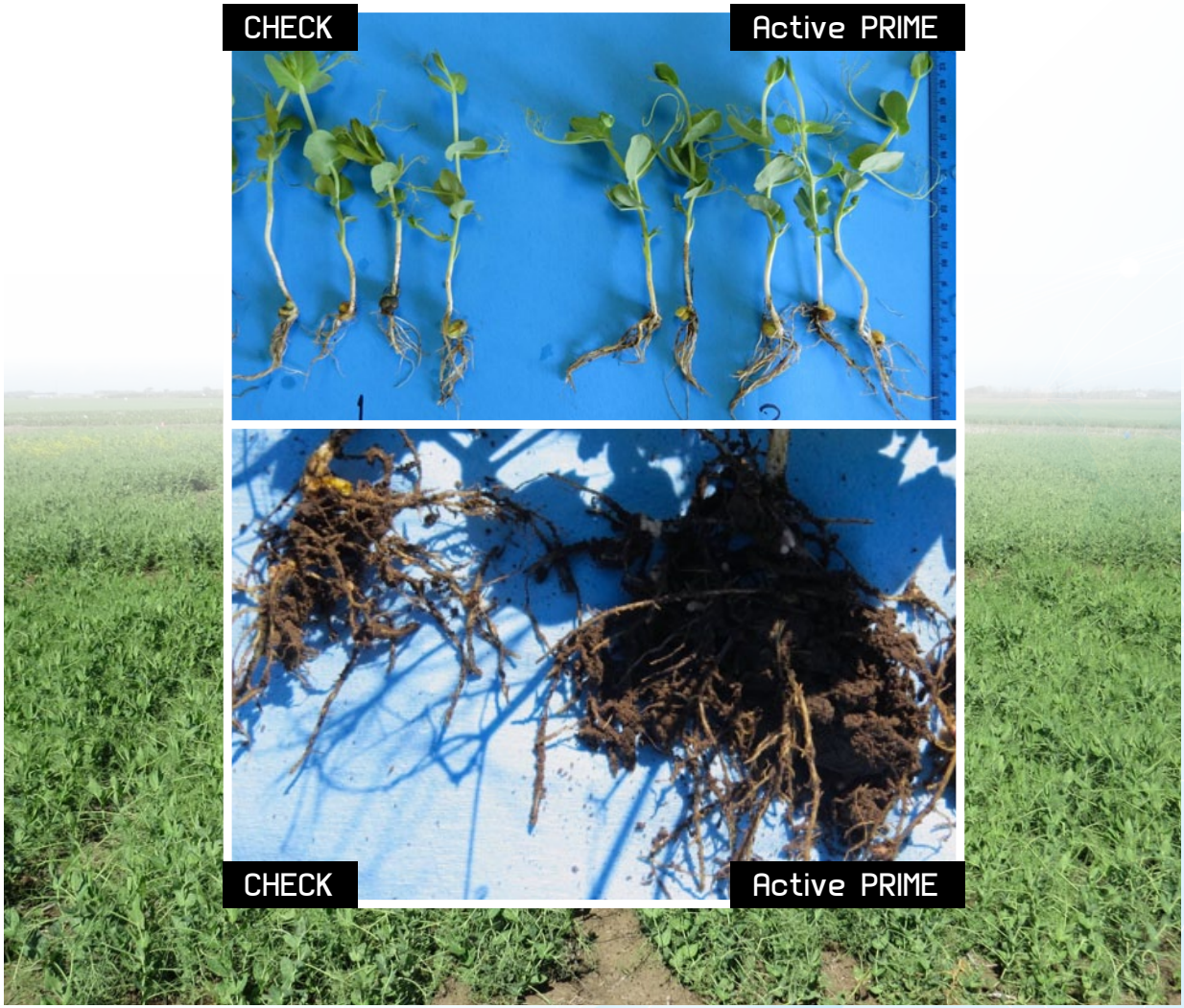
## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 51.8 | |
| Active PRIME | 54.5 | 5.3 |



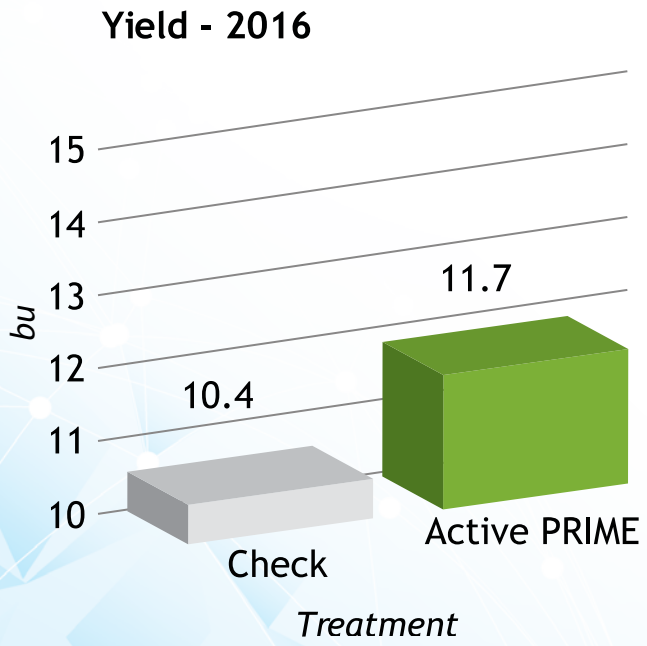
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK



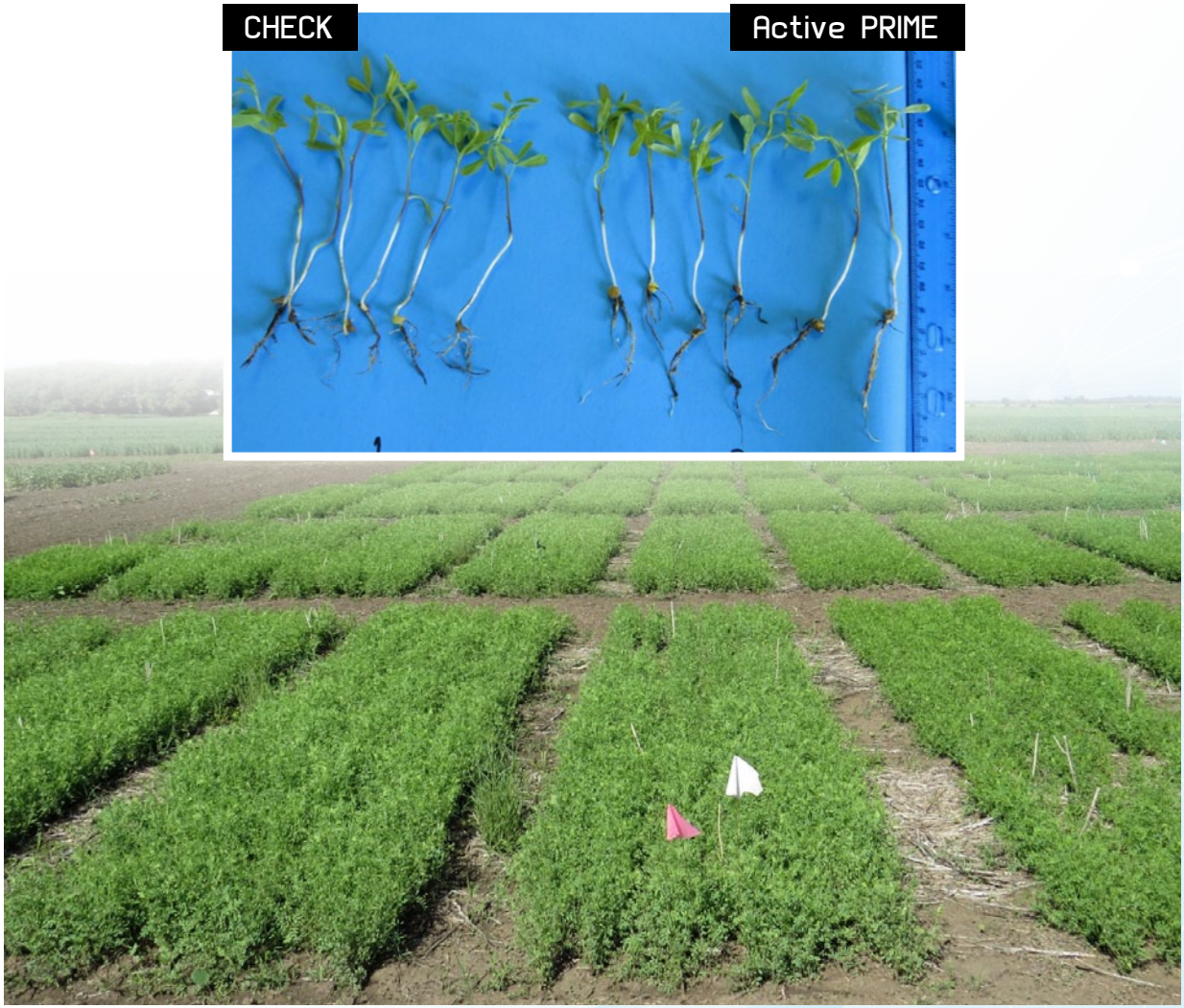
## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 10.4 | |
| Active PRIME | 11.7 | 12.5 |



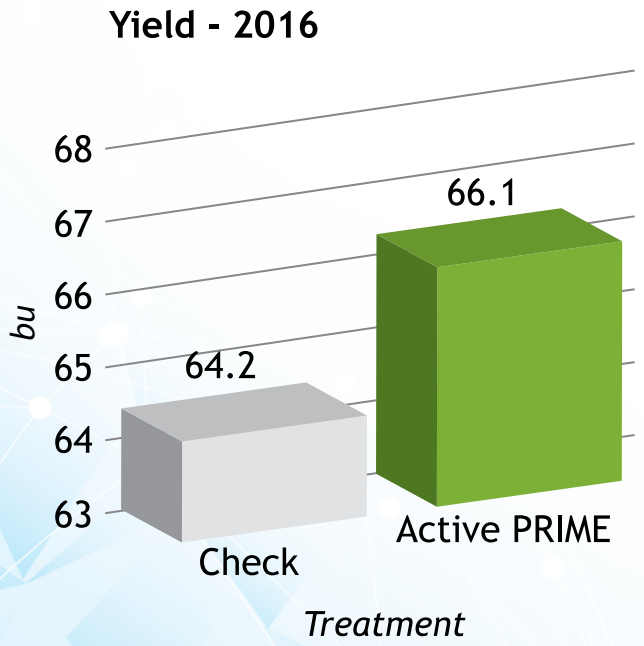
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK



## YIELD DATA - 2016

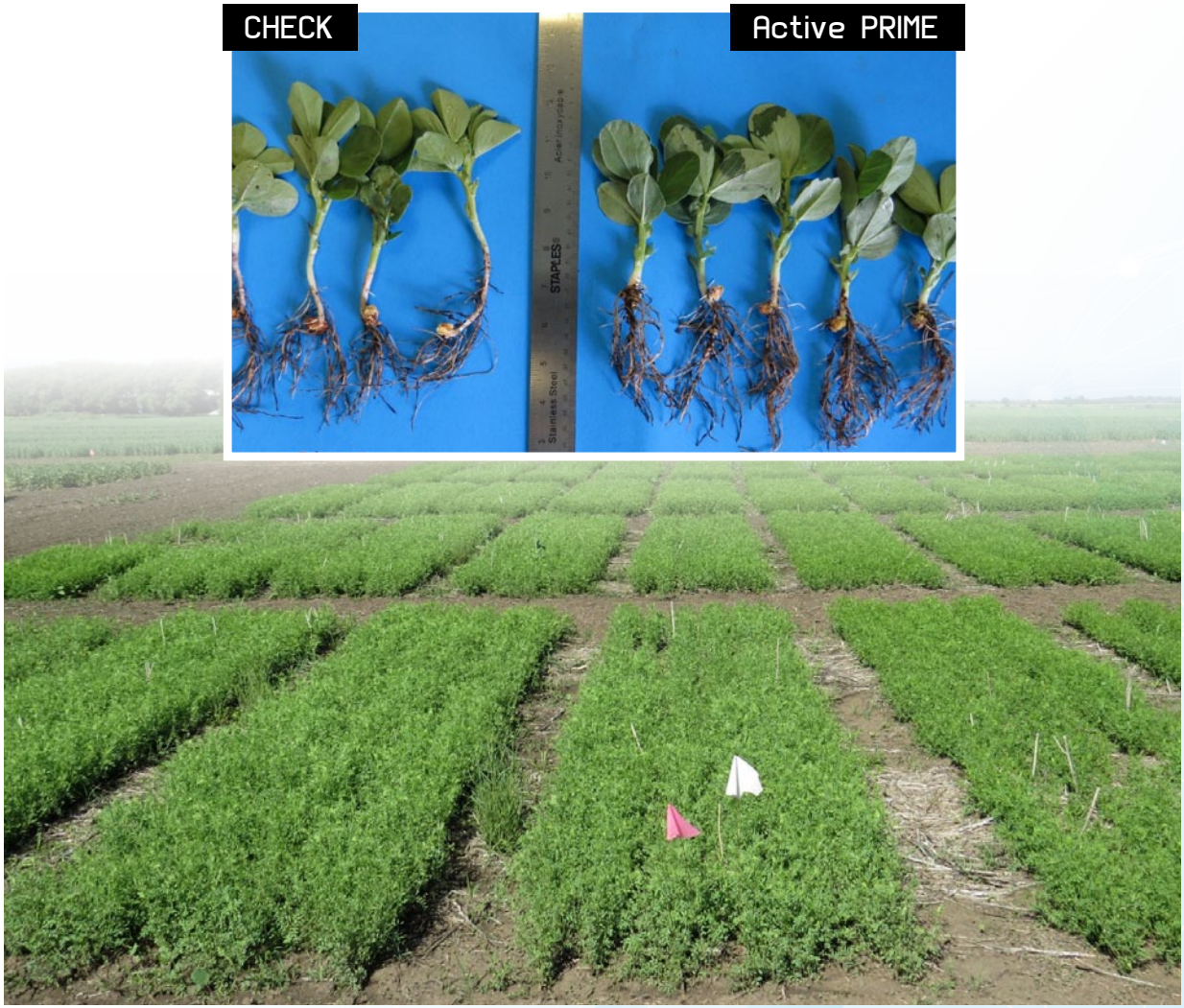
3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 64.2 | |
| Active PRIME | 66.1 | 3 |



# FABA BEAN

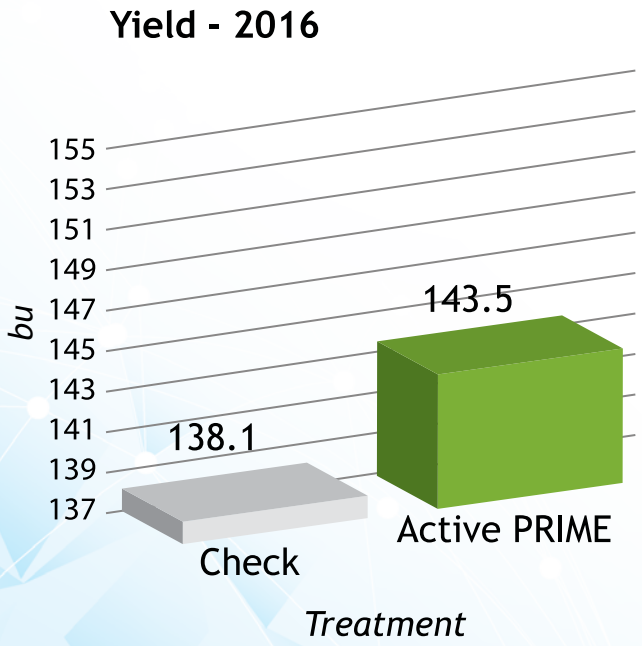
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK



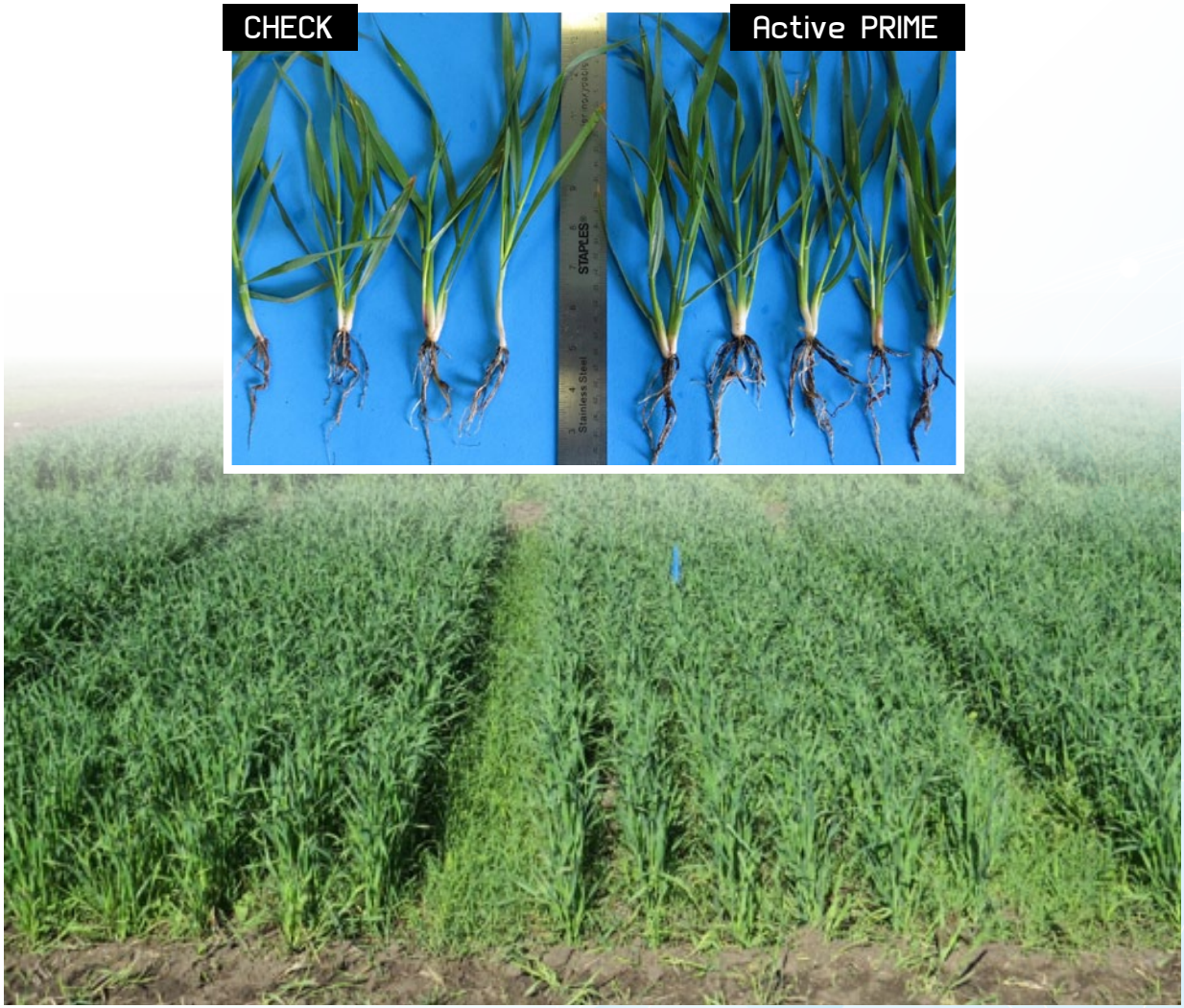
## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 138.1 | |
| Active PRIME | 143.5 | 3.9 |



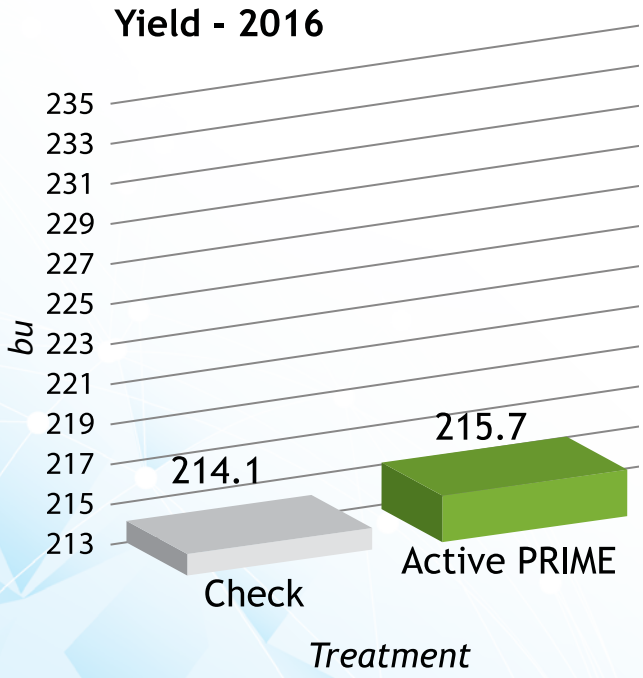
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK



## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH conducted by CROPVISE RESEARCH

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 214.1 | |
| Active PRIME | 215.7 | 0.8 |



RESEARCH CONDUCTED BY CROPVISE RESEARCH, ST. CLAUDE, MN

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AgriScience
activeagriscience.com

# active BUILD™

## HEALTHY YOUNG PLANTS

. . . . . .

## PROTECTION FROM ABIOTIC STRESSORS

# IN CROP GROWTH PROMOTOR

Promotes growth above and below ground while protecting young plants from stressors.

**GUARANTEED MINIMUM ANALYSIS:**

| | |
|---|---|
| Total Nitrogen (N) | 2% |
| Available Phosphate ($P_2O_5$) | 30% |
| Soluble Potash ($K_2O$) | 6% |
| Boron (B)*(actual)* | 1.0% |
| Copper (Cu)*(actual)* | 1.0% |
| Manganese (Mn)*(actual)* | 1.0% |
| Zinc (Zn)*(actual)* | 3.0% |

Intrinsic activated

WHY TO USE: Watching those fields turn from brown to green is exciting, but those growth spurts take a lot of energy and can cause plant stress. Active Build™ provides a shot of much needed extra nutrients as well as support for photosynthesis and protection from drought.

WHEN TO USE: Herbicide timing: Wheat, hops, corn, tomatoes, vegetables, tree fruits, tree nuts, berries: 3-5 leaf stage, BBCH 13-15. Canola: 2-4 leaf stage, BBCH 12-14. Soybean, pulses: first-second trifoliate, V1-V2.

HOW TO USE: Apply 1 L (1 qt) Active Build™ per acre. For ground applications, mix with water at minimum volume of water at 20 L (5.3 US gal) per acre. For aerial applications, mix with water at minimum volume of water at 12 L (3.2 US gal) per acre.

HOW IT WORKS: Active Build™ provides the highest nutrient concentrations package available in a liquid mixture along with Active AgriScience's proprietary Intrinsic™ activation formula. Nitrogen and potassium are in easy-to-absorb complexes, and phosphorous is in two different forms for greater absorption, ensuring that plants benefit from application. Added organic acids enhance photosynthetic capacity, allowing plants to benefit from more energy. Active Build™ also reduces evapotranspiration, protecting plants from drought conditions.

MIXING INSTRUCTIONS:

1. Active Build™ is designed as an early crop fertilizer. It can be combined with other compatible agrochemicals. (See Compatibility Chart. If the agrochemical is not listed, a compatibility test is required before mixing.)
2. Always start with a clean mixing tank.
3. Only add components in the order described.
4. Add the required amount of water to the mixing tank.
5. Add the required amount of Active Build™ and mix well.
6. Add the required amount of other agrochemicals, if being used, and mix well.
7. Apply to crop fields. If adding fungicides with sulfites, it is recommended to keep the agitator running while spraying. If you stop spraying before the mixture is fully applied, run the agitator at least for 5-10 min before you resume spraying.

active BUILD™

IN CROP GROWTH PROMOTOR

BENEFITS: Active Build™ provides the nutrients that young plants need to continue strong, healthy growth and overcome the stress caused by rapid growth, herbicides, and unfavourable environmental conditions. Roots continue to deepen, while stalks strengthen and foliage increases, ultimately resulting in higher yields. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

- STRONGER GROWTH: The high N-P-K concentration in Active Build™ is supplemented with boron, copper, manganese and zinc, supporting additional root growth as well as stronger stalks and increased leafing, even under drought stress.
- REDUCED TRANSPIRATION: Active Build™ helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem, and also helps to regulate stomatal function to reduce excess water loss.
- INCREASED WATER USE EFFICIENCY: Active Build™ inhibits both ethylene synthesis and free radical formation under drought conditions. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. Active Build ™ treated plants have inherent resistance to these drought-induced changes with greater water use efficiency.
- INCREASED NUTRIENT MOBILIZATION AND ABSORPTION: Active Build™ provides nitrogen and potassium in easy-to-absorb complexes, and phosphorous is in two different forms. It also increases secretion of root exudates into the rhizosphere that increase bound nutrient mobilization, availability, and root interception. Treated plants show increased uptake of nutrients.
- INCREASED PERFORMANCE UNDER STRESS CONDITIONS: Active Build™ has a simple molecular structure that allows for its activity to be unaffected by unfavourable conditions, and its ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways allows plants to maximize their genetic potential under cold, wet or drought conditions.
- INCREASED FUNCTION UNDER WIDE RANGE OF pH: Active Build™ contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. Therefore, its function and efficacy are preserved under various pH regimes.

COMPATIBILITY: Compatible with most fungicides, herbicides, pesticides, and fertilizers. Please see Compatibility Chart and conduct pre-testing if combination has not been previously used. Always do a jar test with pesticides and spray water to ensure compatibility as water quality can vary.

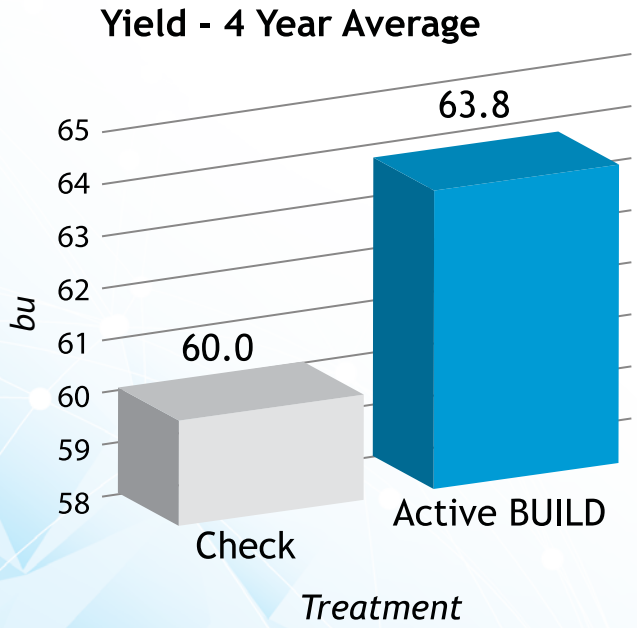
| Active BUILD | | |
|---|---|---|
| **HERBICIDES** | **Active** | **Compatibility** |
| 2,4-D AMINE | 2-ethylhexyl amine of 2,4-dichlorophenoxyacetic acid | |
| 2,4-D ESTER | 2-ethylhexyl ester of 2,4-dichlorophenoxyacetic acid | |
| ACHIEVE LIQUID | Tralkoxydim | |
| ADRENALIN | | |
| ALLY | | |
| ARMEZON | | |
| ARES | | |
| ASSURE II | | |
| ATTAIN | | |
| AVENGE 200C | | |
| AXIAL | Pinoxaden | |
| BANVEL II | | |
| BARRICADE II | | |
| BASAGRAN | | |
| BUCTRIL M | | |
| CENTURION | Clethodim | |
| CLEVER | Quinclorac | |
| CURTAIL M | Clopyralid, MCPA, | |
| DYVEL | | |
| DYVEL DS | | |
| ESTAPROP | | |
| EQUINOX | | |
| EVEREST / SIERRA | Flucarbazone-sodium | |
| FLAX MAX | | |
| FRONTLINE | Florasulam, MCPA | |
| GLYPHOSATE | | |
| HARMONY | | |
| HORIZON NG | Clodinafop-propargyl | |
| INFINITY | | |
| LIBERTY | glufosinate ammonium | |
| LONTREL | Clopyralid | |
| MANIPULATOR 620 | | |

| Active BUILD | | |
|---|---|---|
| **HERBICIDES** | **Active** | **Compatibility** |
| MCPA AMINE | | |
| MCPA ESTER | | |
| OCTTAIN XL | Octane | |
| ODYSSEY | | |
| ODYSSEY ULTRA | | |
| POAST ULTRA | | |
| PRESTIGE | | |
| PUMA SUPER | | |
| PURSUIT | | |
| REFINE SG | | |
| SIMPLICITY | Pyroxsulam | |
| SENCOR | | |
| SOLO | | |
| SPECTRUM | | |
| STELLAR | Forasulam, Fluroxypyr | |
| TARGET | | |
| THUMPER | | |
| UNITY | | |
| VELOCITY 3M | Thiencarbazone-methyl, Pyrasulfotole | |
| VENTURE | | |
| VIPER ADV | Imazamox, Bentazon | |
| **INSECTICIDES** | **Active** | |
| CYGON / LAGON | | |
| CORAGEN | | |
| DECIS | Deltamethrin | |
| FURADAN | | |
| LANNATE | Methomyl | |
| LORSBAN | | |
| MALATHION | | |
| MATADOR | | |
| RIPCORD | Cypermethrin | |
| SEVIN XLR PLUS | Carbaryl | |

## YIELD DATA - 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 77 | 63.3 | 54.2 | 45.3 | 60.0 | |
| Active PRIME | 81 | 69.3 | 57.2 | 47.8 | 63.8 | 6.5 |



active BUILD™

# WHEAT

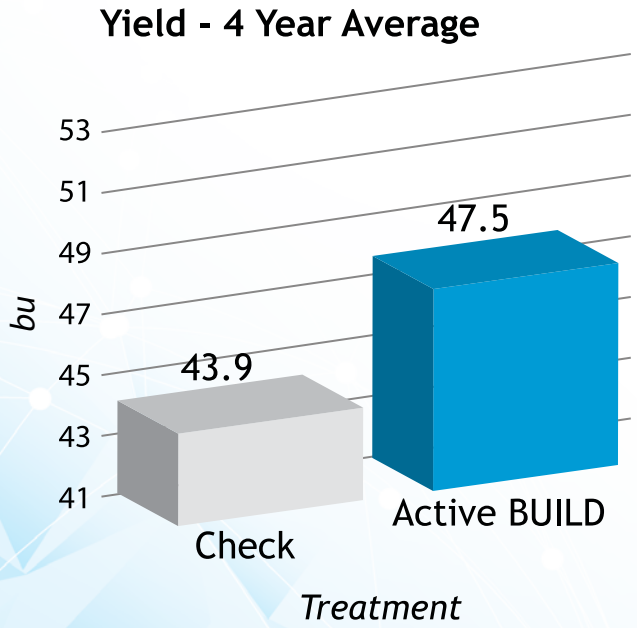
## YIELD DATA - 4 YEAR AVERAGE

RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 45 | 52 | 44.7 | 33.8 | 43.9 | |
| Active BUILD | 49.5 | 55.7 | 46.2 | 38.4 | 47.5 | 8.1 |

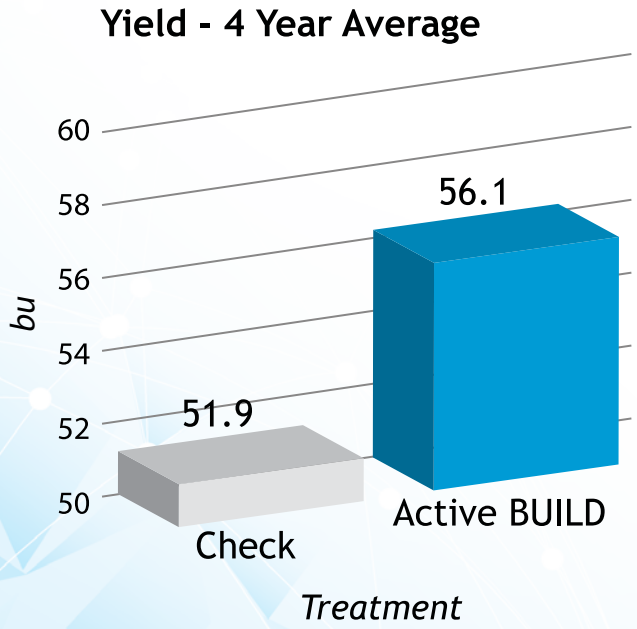


RESEARCH CONDUCTED BY AGQUEST, MINTO, MB

## YIELD DATA - 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 68 | 10.1 | 60.6 | 68.7 | 51.9 | |
| Active BUILD | 72 | 17.6 | 62.1 | 72.6 | 56.1 | 8.1 |

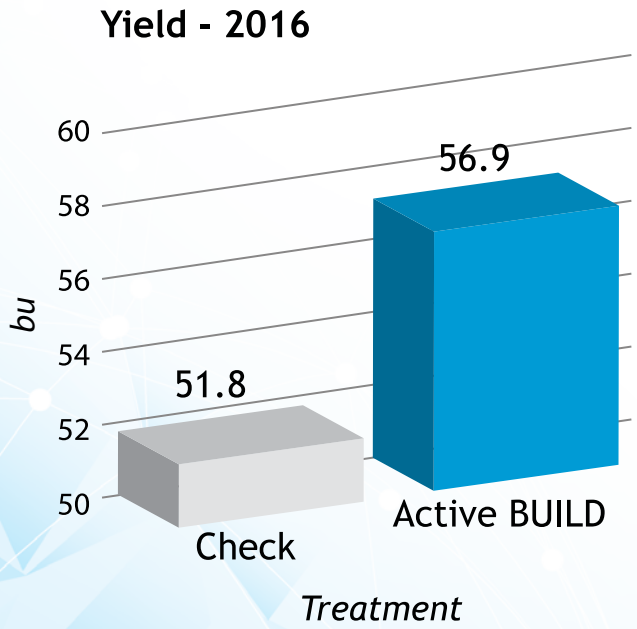


RESEARCH CONDUCTED BY AGVISE RESEARCH, GRAND FORKS, ND

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 51.8 | |
| Active BUILD | 56.9 | 10 |

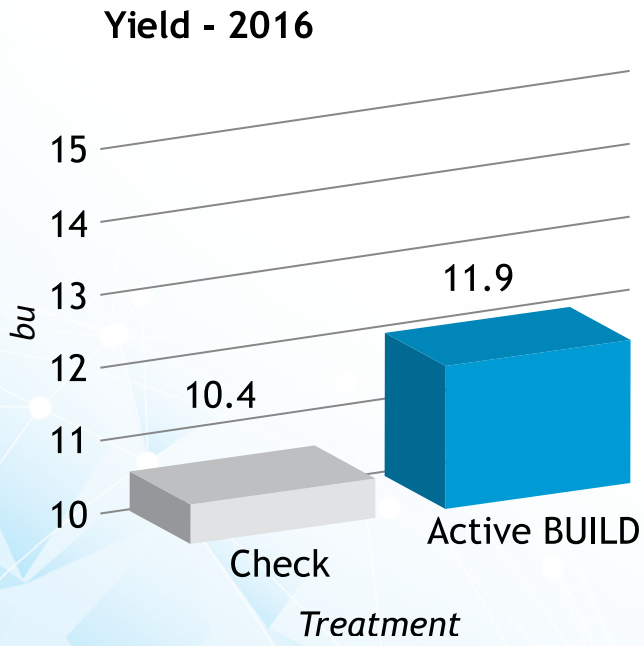


RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 10.4 | |
| Active BUILD | 11.9 | 14.7 |



active BUILD™

# LENTILS

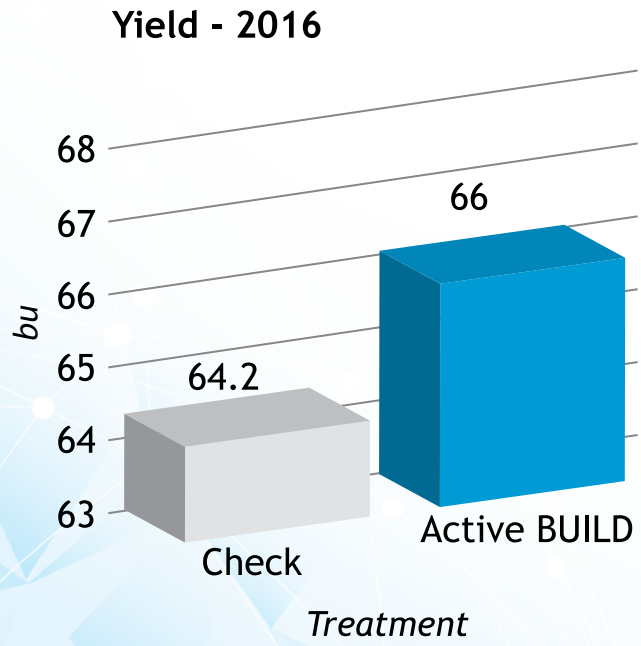
RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

# FABA BEAN

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 64.2 | |
| Active BUILD | 66 | 2.8 |



active BUILD™

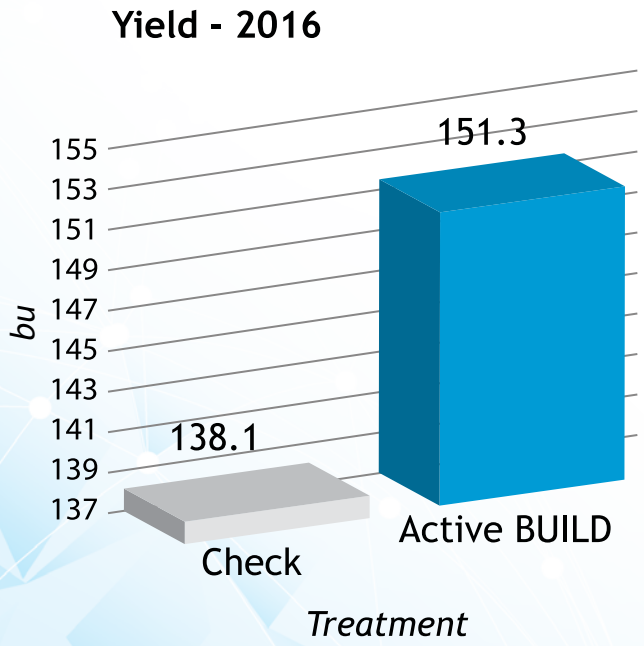
# FABA BEAN

RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 138.1 | |
| Active BUILD | 151.3 | 9.6 |

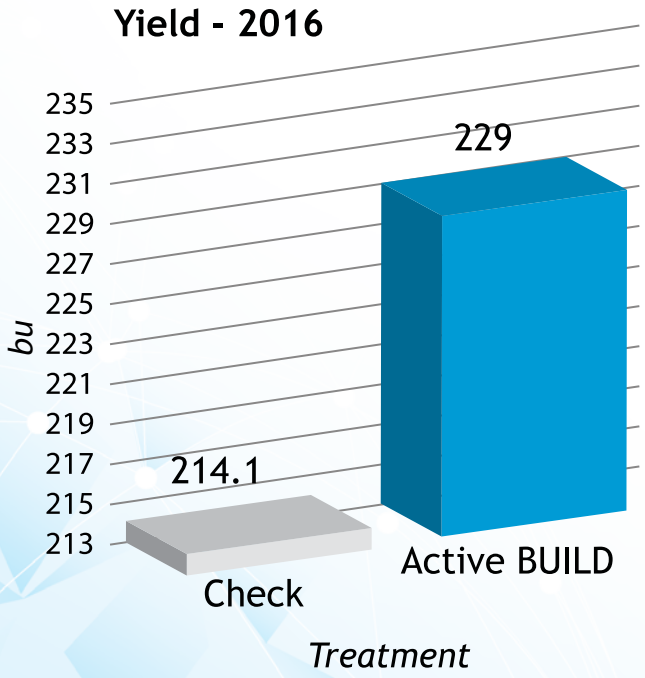


RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with CROPVISE RESEARCH

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 214.1 | |
| Active BUILD | 229 | 7 |



RESEARCH CONDUCTED BY CROPVISE RESEARCH, ST. CLAUDE, MN

ACTIVE™
AgriScience
activeagriscience.com

# active FLOWER™

## ENHANCED POLLINATION

. . . . . .

## MORE FRUIT SETS, PODS & SEEDS

# active FLOWER™

## TECHNOLOGY SUPPORTING PLANT POLLINATION

Enhances pollen development, anther dehiscence, pollen hydration, fertilization, and production of fruit, pods and seeds.

**GUARANTEED MINIMUM ANALYSIS:**

| | |
|---|---|
| Total Nitrogen (N) | 8% |
| Available Phosphate ($P_2O_5$) | 4% |
| Soluble Potash ($K_2O$) | 12% |
| Boron (B) (actual) | 3.0% |
| Copper (Cu) (actual) | 0.05% |
| Manganese (Mn) (actual) | 0.1% |
| Zinc (Zn) (actual) | 0.05% |

**WHY TO USE:** Active Flower™ provides nutrients, polyamines and organic acids to enhance pollen development, anther dehiscence, pollen hydration, pollen tube growth, fertilization, and production of fruit, pods and seeds.

**WHEN TO USE:** Canola, hops, soybean, other pulses: 5-30% bloom stage. Corn: at tassels stage. Fruit and nut trees: 10% bloom stage; repeat at 50% bloom stage (with a minimum of 3 weeks between applications). Tomatoes, vegetables: 5% - 20% bloom stage. Berries: 5% bloom stage; repeat at 50% bloom stage.

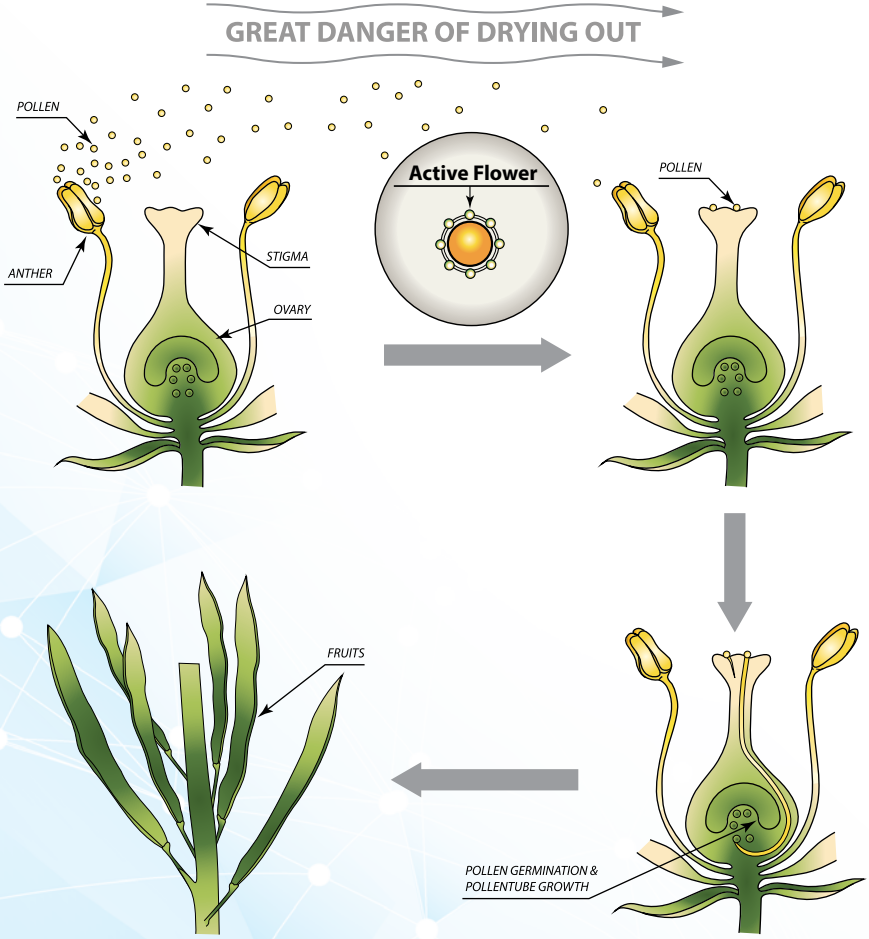
**HOW TO USE:** 1 L (1 qt) Active Flower™ per acre. For ground applications, mix with water at minimum volume of water at 20 L (5.3 US gal) per acre. For aerial applications, mix with water at minimum volume of water at 12 L (3.2 US gal) per acre.

### MIXING INSTRUCTIONS:

1. Active Flower™ is intended as a foliar spray and should be applied in the early morning or late afternoon. Do not apply when air temperatures are above 29°C (85°F) and avoid spraying on windy days.
2. Always start with a clean mixing tank.
3. Add sufficient water to allow thorough coverage of fields.
4. Shake Active Flower™ well in its container before adding 1 L (1 qt) per acre of Active Flower™ to mixing tank and mix well.
5. Add other agrochemicals, if desired, and mix well.
6. Apply to fields as indicated for type of crop.

**Use enough water to flush the chemical handler after adding fungicide (before adding Active Flower™) to avoid reaction between concentrated forms of the products.**

# TECHNOLOGY SUPPORTING PLANT POLLINATION




HOW IT WORKS: Active Flower™ contains nitrogen in the form of amine and micronutrients which maintain high enzymatic and hormonal activity during the reproductive phase of plant growth. Potassium is provided to regulate anther dehiscence, pollen hydration/imbibition, and pollen tube growth, needed for successful fertilization, and to promote uniform fruit size and quality. Easy to absorb and penetrate through membranes where it is needed, a boron-amine complex fosters pollen viability, seed set, carbohydrate and nucleic acid metabolism, cell differentiation and maturity, sugar transport, uptake of calcium, magnesium, potassium, synthesis of cytokinins, translocation of auxins, and root tip initiation. The polyamine complex aids in pollen germination, hydration, viability, pollen tube growth, accumulation of secretory vesicles in pollen tubes, and fertility. It also attracts bees, minimizes abortive flowers, and increases fruit sets and yield.

*Pollen - 4hrs after spraying* *Pollen - 8hrs after spraying* *Pollen - 16hrs after spraying* *Pollen - 24hrs after spraying*

active FLOWER™

# TECHNOLOGY SUPPORTING PLANT POLLINATION

BENEFITS: Active Flower™ provides nutrients, polyamines and organic acids that support and enhance plant fertility. It improves pollen hydration, germination, pollen tube growth and viability, and encourages bee foraging activity which increases fertilization. Plants produce more fruit sets and an increased number of larger and uniform pods and seeds, ultimately resulting in greater yields. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

- INCREASED POLLEN TUBE GROWTH: Active Flower™ contains nitrogen, potassium, and polyamine complex which support pollen tube growth and accumulation of secretory vesicles in pollen tubes.
- INCREASED FERTILIZATION: Active Flower™ helps regulate anther dehiscence and pollen hydration, and increases pollen volume and viability.
- INCREASED VOLUME AND SIZE OF FRUIT SETS, PODS, AND SEEDS: Active Flower™ increases fertilization and also supports carbohydrate and nucleic acid metabolism, sugar transport, cell differentiation and maturation, resulting in a higher volume of larger, uniform, high quality fruits, pods, and seeds.
- INCREASED BEE VISITATIONS: Polyamines present in Active Flower™ help attracts bees, resulting in greater fertilization and minimal abortive flowers.
- INCREASED NUTRIENT MOBILIZATION AND ABSORPTION: Active Flower™ boosts the uptake of calcium, magnesium, and potassium.
- INCREASED PERFORMANCE UNDER STRESS CONDITIONS: Active Flower™ benefits are unaffected by unfavourable conditions, maintaining its ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways, allowing plants to maximize their genetic potential under cold, wet or drought conditions.

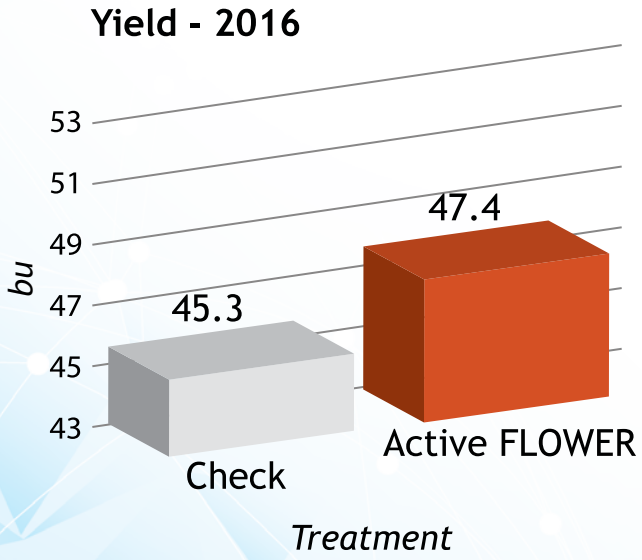
COMPATIBILITY: Compatible with most fungicides, herbicides, pesticides, and fertilizers. Please see Compatibility Chart and conduct pre-testing if combination has not been previously used. Always do a jar test with pesticides and spray water to ensure compatibility as water quality can vary.

| Active FLOWER | | |
|---|---|---|
| **INSECTICIDES** | **Active** | **Compatibility** |
| CYGON / LAGON | | |
| CORAGEN | | |
| DECIS | Deltamethrin | |
| FURADAN | | |
| LANNATE | Methomyl | |
| LORSBAN | | |
| MALATHION | | |
| MATADOR | | |
| RIPCORD | Cypermethrin | |
| SEVIN XLR PLUS | Carbaryl | |
| **FUNGICIDES** | | |
| ACAPELA | | |
| ASTOUND | | |
| BRAVO 500 | Chlorothalonyl | |
| CARAMBA | | |
| DITHANE | Mancozeb | |
| FOLICUR | | |
| FUSE | | |
| HEADLINE | | |
| KUMULUS DF | | |
| LANCE WDG | | |
| PRIAXOR | | |
| PROLINE | Prothioconazole | |
| PROSARO | | |
| QUADRIS | Azoxystrobin | |
| QUILT | | |
| ROVRAL FLO | | |
| TILT | Propiconazole | |
| TWINLINE | | |
| VERTISAN | Penthiopyrad | |

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 45.3 | |
| Active FLOWER | 47.4 | 4.6 |



active FLOWER™

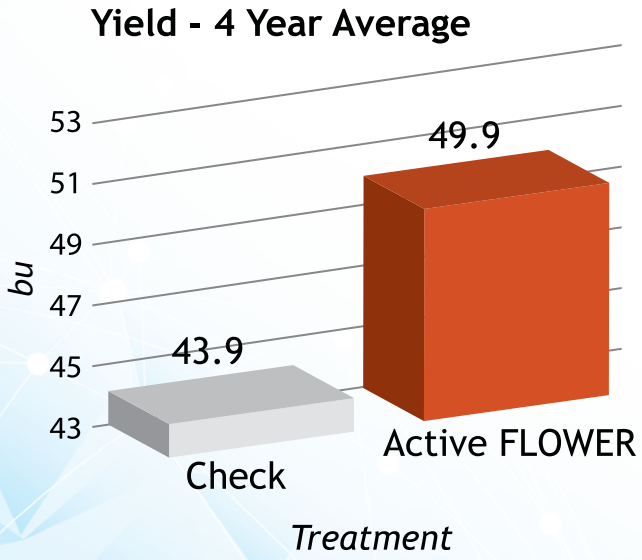
# WHEAT

RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA - 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 45 | 52 | 44.7 | 33.8 | 43.9 | |
| Active FLOWER | 49.5 | 63.1 | 48 | 38.8 | 49.9 | 13.6 |



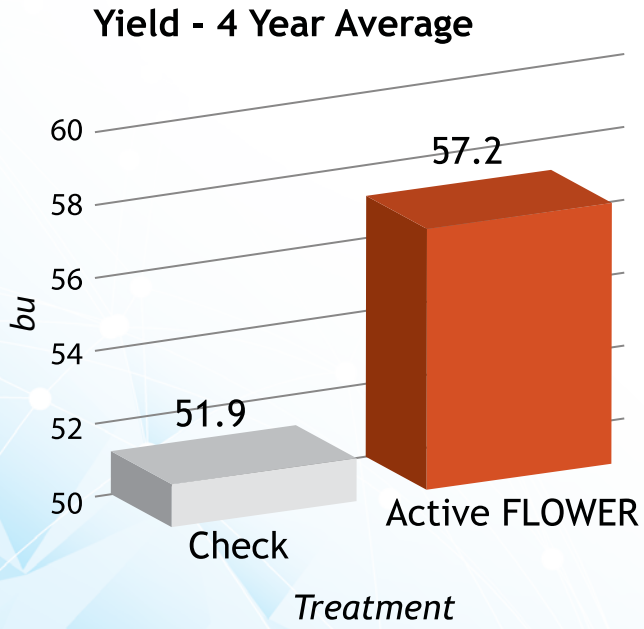
# CANOLA

RESEARCH CONDUCTED BY AGQUEST, MINTO, MB

## YIELD DATA - 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 68 | 10.1 | 60.6 | 68.7 | 51.9 | |
| Active FLOWER | 74 | 20.8 | 61.9 | 72.1 | 57.2 | 10.3 |



active FLOWER™

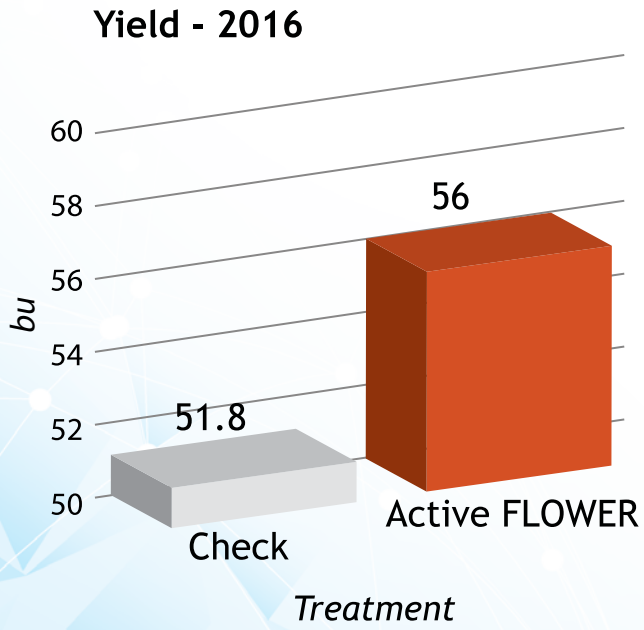
# SOYBEAN

RESEARCH CONDUCTED BY AGVISE RESEARCH, GRAND FORKS, ND

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

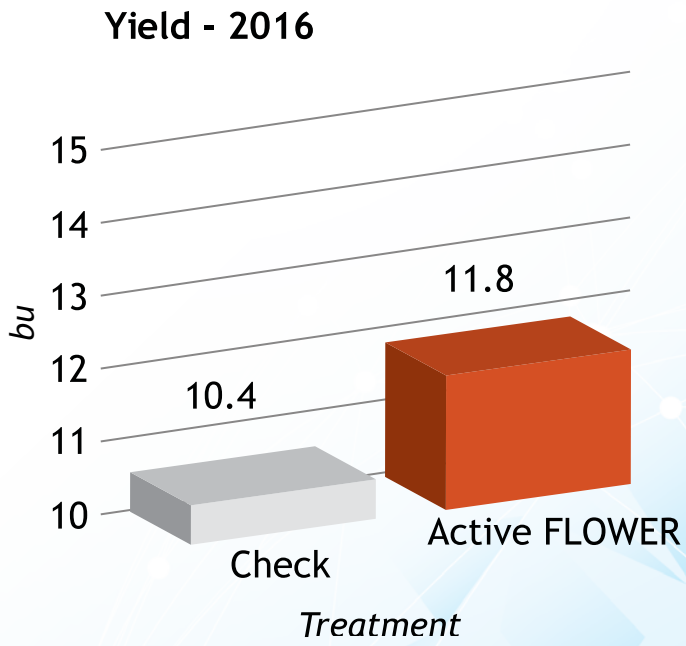
| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 51.8 | |
| Active FLOWER | 56 | 8.3 |



## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

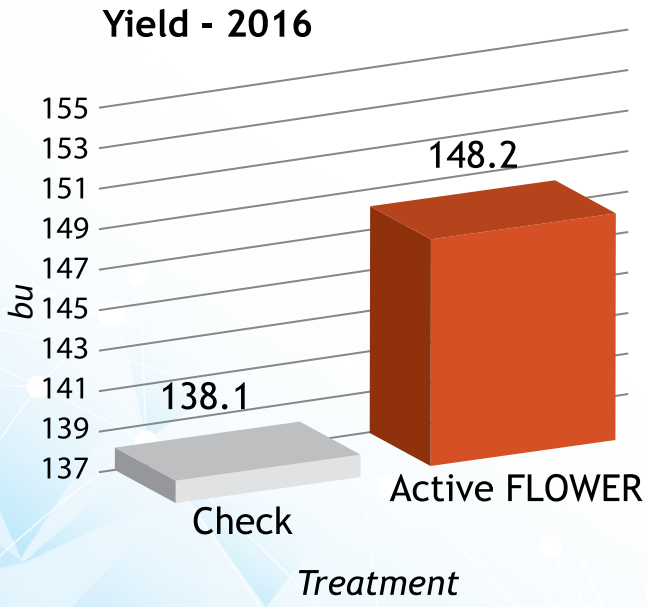
| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 10.4 | |
| Active FLOWER | 11.8 | 13.5 |



## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 138.1 | |
| Active FLOWER | 148.2 | 7.3 |



active FLOWER™

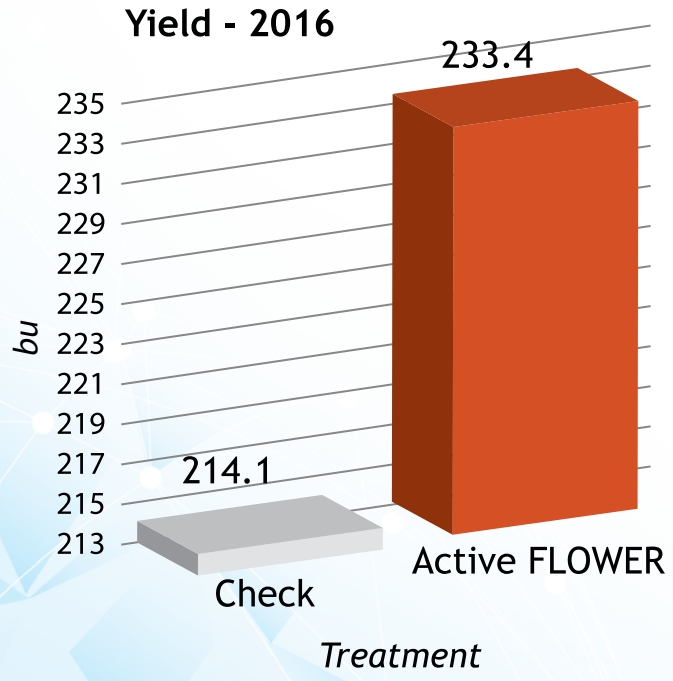
# OATS

RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA - 2016

3RD PARTY FIELD RESEARCH with CROPVISE RESEARCH

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 214.1 | |
| Active FLOWER | 233.4 | 9.1 |



active FLOWER™

# CORN

RESEARCH CONDUCTED BY CROPVISE RESEARCH, ST. CLAUDE, MN

ACTIVE AgriScience
activeagriscience.com

active COMPLETE™

# INCREASED NUTRITIONAL QUALITY AND WEIGHT

active COMPLETE™

ENHANCING NUTRITIONAL QUALITY

Prepare crops for a high yield harvest by increasing fruit, pod, and seed production and quality.

**GUARANTEED MINIMUM ANALYSIS:**

| | |
|---|---|
| Available Phosphorous ($P_2O_5$) | 38% |
| Soluble Potash ($K_2O$) | 8% |
| Manganese (Mn) (actual) | 3% |
| Zinc (Zn)(actual) | 5% |

Intrinsic activated

WHY TO USE: Active Complete™ is the last step in ensuring greater volume, size and quality of your crop. The application of these specially designed nutrients gives a boost to the final stages of the plant reproduction cycle, increasing fruit, pod and seed growth and nutritional quality.

WHEN TO USE: Wheat: full flowering, 50% of anthers mature, BBCH 60-65. Tomatoes, vegetables: full flowering, 50% of anthers mature, BBCH 60-65. Corn: milk stage, BBCH 60-65 or at herbicide timing. Hops: when cones begin to form. Fruit and nut trees: after fruit/pod formation and before ripening. Potatoes: when tubers are beginning to form or at herbicide timing. Soybean, other pulses: after pods are formed, V5-R2.

HOW TO USE: 1 L (1 qt) Active Complete™ per acre. For ground applications, mix with water at minimum volume of water at 20 L (5.3 US gal) per acre. For aerial applications, mix with water at minimum volume of water at 12 L (3.2 US gal) per acre.

HOW IT WORKS: Active Complete™ provides potassium, zinc, manganese, and two forms of phosphorous as readily absorbed nutrients. This formulation fosters the plants' natural biochemical pathways related to photosynthetic partitioning, allowing sufficient storage of carbohydrates produced during sunlight hours to support continued growth throughout the night. As a result, husks and pods fill, fruit ripens, and seeds mature more quickly and with greater uniformity with decreasing daylight, resulting in a higher yield. This process also increases the nutritional quality of the crop and the plants' ability to resist disease.

MIXING INSTRUCTIONS:

1. Active Complete™ is intended as a foliar spray and should be applied in the early morning or late afternoon. Do not apply when air temperatures are above 29°C (85°F) and avoid spraying on windy days.
2. Always start with a clean mixing tank.
3. Add sufficient water to allow thorough coverage of fields.
4. Add other agrochemicals, if desired, and mix well.
5. Add 1 L (1 qt) Active Complete™ per acre and mix well.
6. Apply to fields as indicated for type of crop.

BENEFITS: Active Complete™ provides the micronutrients needed for a strong finish to the plant reproductive phase, along with Active AgriScience's proprietary Intrinsic™ activation formula. This results in greater and more uniform production of fruits, grains, and seeds, and overall, a higher yield. In addition, this pre-harvest fertilizer increases grain quality and seed nutrition. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

- INCREASED CROP VOLUME: Active Complete™ supports late season growth; husk and pod fill, fruit ripening, and seed maturation more quickly and with greater uniformity.
- INCREASED QUALITY: Active Complete™ increases grain quality and seed nutrition.
- REDUCED TRANSPIRATION: Active Complete™ helps increase xylem pressure through positive water potential, and enhanced elasticity of the xylem, and also helps to regulate stomatal function to reduce excess water loss.
- INCREASED WATER USE EFFICIENCY: Active Complete™ inhibits both ethylene synthesis and free radical formation under drought conditions. Ethylene and free radicals destabilize plant membranes, through fluidization and lipid peroxidation, resulting in water leakage and quicker wilting. Active Complete™ treated plants have inherent resistance to these drought-induced changes with greater water use efficiency.
- INCREASED NUTRIENT MOBILIZATION AND ABSORPTION: Active Complete™ provides nitrogen and potassium in easy-to-absorb complexes, and phosphorous in two different forms. This increases secretion of root exudates into the rhizosphere that increase bound nutrient mobilization, availability, and root interception. Treated plants show increased uptake of nutrients.
- INCREASED PERFORMANCE UNDER STRESS CONDITIONS: Active Complete™ contains Intrinsic, which has a simple molecular structure that allows for its activity to be unaffected by unfavourable conditions. Also, its ability to simultaneously upregulate desirable pathways and downregulate undesirable pathways allows plants to maximize their genetic potential under cold, wet or drought conditions.
- INCREASED FUNCTION UNDER WIDE RANGE OF pH: Active Complete™ contains simple organic molecules that act as either weak acids or bases to pH buffer solutions. Therefore, its function and efficacy are preserved under various pH regimes.

COMPATIBILITY: Compatible with most fungicides, herbicides, pesticides, and fertilizers. Please see Compatibility Chart and conduct pre-testing if combination has not been previously used. Always do a jar test with pesticides and spray water to ensure compatibility as water quality can vary.

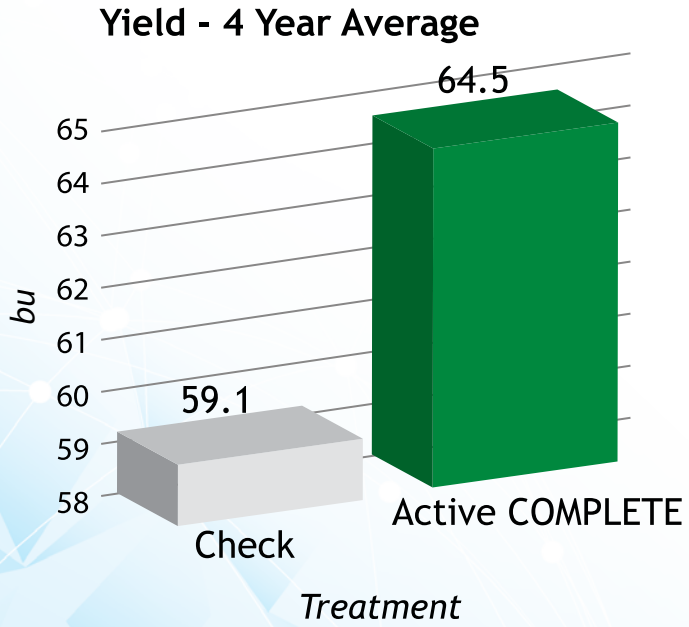
| Active COMPLETE | | |
|---|---|---|
| **HERBICIDES** | **Active** | **Compatibility** |
| 2,4-D AMINE | 2-ethylhexyl amine of 2,4-dichlorophenoxyacetic acid | |
| 2,4-D ESTER | 2-ethylhexyl ester of 2,4-dichlorophenoxyacetic acid | |
| ACHIEVE LIQUID | Tralkoxydim | |
| ADRENALIN | | |
| ALLY | | |
| ARMEZON | | |
| ARES | | |
| ASSURE II | | |
| ATTAIN | | |
| AVENGE 200C | | |
| AXIAL | Pinoxaden | |
| BANVEL II | | |
| BARRICADE II | | |
| BASAGRAN | | |
| BUCTRIL M | | |
| CENTURION | Clethodim | |
| CLEVER | Quinclorac | |
| CURTAIL M | Clopyralid, MCPA, | |
| DYVEL | | |
| DYVEL DS | | |
| ESTAPROP | | |
| EQUINOX | | |
| EVEREST / SIERRA | Flucarbazone-sodium | |
| FLAX MAX | | |
| FRONTLINE | Florasulam, MCPA | |
| GLYPHOSATE | | |
| HARMONY | | |
| HORIZON NG | Clodinafop-propargyl | |
| INFINITY | | |
| LIBERTY | glufosinate ammonium | |
| LONTREL | Clopyralid | |
| MANIPULATOR 620 | | |

| Active COMPLETE | | |
|---|---|---|
| **HERBICIDES** | **Active** | **Compatibility** |
| MCPA AMINE | | |
| MCPA ESTER | | |
| OCTTAIN XL | Octane | |
| ODYSSEY | | |
| ODYSSEY ULTRA | | |
| POAST ULTRA | | |
| PRESTIGE | | |
| PUMA SUPER | | |
| PURSUIT | | |
| REFINE SG | | |
| SIMPLICITY | Pyroxsulam | |
| SENCOR | | |
| SOLO | | |
| SPECTRUM | | |
| STELLAR | Forasulam, Fluroxypyr | |
| TARGET | | |
| THUMPER | | |
| UNITY | | |
| VELOCITY 3M | Thiencarbazone-methyl, Pyrasulfotole | |
| VENTURE | | |
| VIPER ADV | Imazamox, Bentazon | |
| **INSECTICIDES** | **Active** | |
| CYGON / LAGON | | |
| CORAGEN | | |
| DECIS | Deltamethrin | |
| FURADAN | | |
| LANNATE | Methomyl | |
| LORSBAN | | |
| MALATHION | | |
| MATADOR | | |
| RIPCORD | Cypermethrin | |
| SEVIN XLR PLUS | Carbaryl | |

## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 77 | 63.3 | 50.9 | 45.3 | 59.1 | |
| Active COMPLETE | 87 | 65.6 | 56.9 | 48.4 | 64.5 | 9.0 |



active COMPLETE™

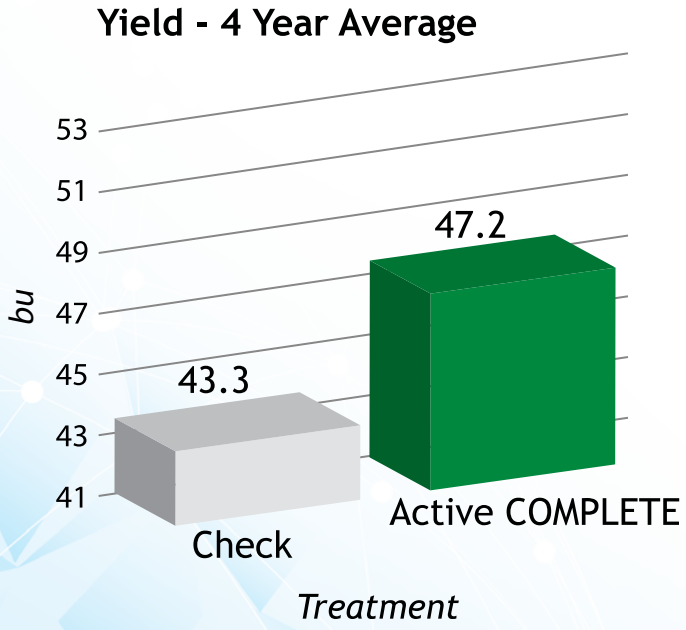
# WHEAT

RESEARCH CONDUCTED BY AGQUEST, SASKATOON, SK

## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 45 | 52 | 42.3 | 33.8 | 43.3 | |
| Active COMPLETE | 48.5 | 62.3 | 40.7 | 37.3 | 47.2 | 11.2 |



active COMPLETE™

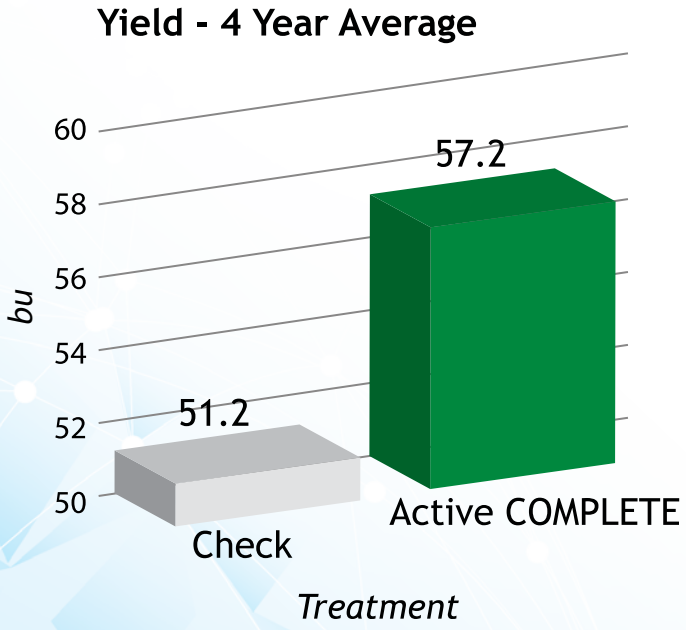
# CANOLA

RESEARCH CONDUCTED BY AGQUEST, MINTO, MB

## YIELD DATA – 4 YEAR AVERAGE

4 YEARS OF 3RD PARTY FIELD RESEARCH with MARA, SARDA, AGQUEST, ICMS, NEWMARK RESEARCH

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | 2013 | 2014 | 2015 | 2016 | | |
| Check | 68 | 10.1 | 58.1 | 68.7 | 51.2 | |
| Active COMPLETE | 74 | 22.4 | 61.5 | 70.8 | 57.2 | 11.6 |

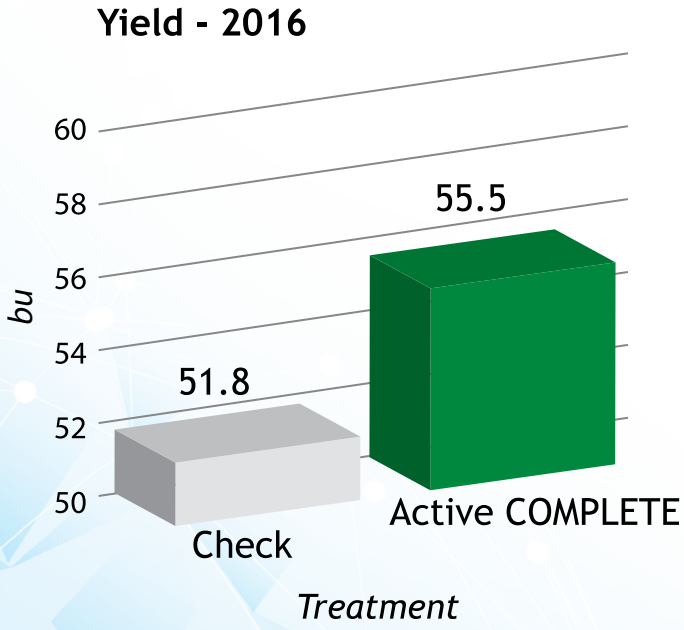


RESEARCH CONDUCTED BY AGVISE RESEARCH, GRAND FORKS, ND

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

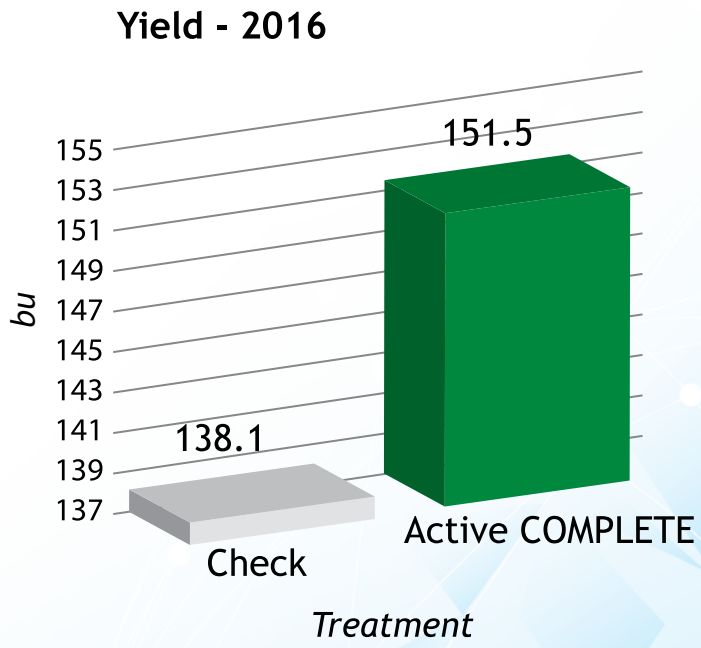
| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 51.8 | |
| Active COMPLETE | 55.5 | 7.3 |



## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Average Yield (bu/acre) | % Increase |
|---|---|---|
| Check | 138.1 | |
| Active COMPLETE | 151.5 | 9.7 |



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# Proform™

## EXCELLENT
## FOLIAR NITROGEN SOURCE
## WITHOUT LEAF BURN

# Proform N™

PROMOTING HEALTHIER CROP GROWTH

Excellent source of readily available and slow release nitrogen without affecting leaf tissues.

**GUARANTEED MINIMUM ANALYSIS:**
Total Nitrogen (N) . . . . . 25%
Nickel (Ni) . . . . . 0.0001%

WHY TO USE: Give your crops the nitrogen they need for continuous strong, healthy growth, without the worry of leaf burn. Proform N™ is specially formulated to allow better nitrogen absorption without damaging leaf tissue.

WHEN TO USE: Early growth phase and after pollination.

HOW TO USE: 1 L (1 qt) Proform N™ per acre. For ground applications, mix with water at minimum volume of water at 20 L (5.3 US gal) per acre. For aerial applications, mix with water at minimum volume of water at 12 L (3.2 US gal) per acre.

HOW IT WORKS: Proform N™ consists of amino acids and urea nitrogen providing for easy foliar absorption without burning. It also allows more nitrogen to be absorbed through the plant leaves and translocate into nitrogen demanding tissues.

MIXING INSTRUCTIONS:

1. Proform N is intended as a foliar spray and should be applied in the early morning or late afternoon. Do not apply when air temperatures are above 29°C (85°F) and avoid spraying on windy days.
2. Always start with a clean mixing tank.
3. Add sufficient water to allow thorough coverage of fields.
4. Add other agrochemicals, if desired, and mix well.
5. Add 1 L (1 qt) Proform N per acre and mix well.

COMPATIBILITY: Compatible with most fungicides, herbicides, pesticides, and fertilizers. Please see Compatibility Chart and conduct pre-testing if combination has not been previously used. Always do a jar test with pesticides and spray water to ensure compatibility as water quality can vary.

BENEFITS: Nitrogen is essential for plant life and growth and is therefore a component of many fertilizers. Proform N™ provides both readily available nitrogen as well as slow release nitrogen, allowing it to be absorbed through the plant leaves efficiently. Proform N™ is also specially formulated to protect leaves from burning. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

Proform N™

# PROMOTING HEALTHIER CROP GROWTH

- INCREASED CHLOROPHYLL: By allowing the absorption of nitrogen, the development of chlorophyll is supported, fostering photosynthetic energy production and storage for increased health and growth.
- INCREASED PROTEIN: Increased nitrogen absorption supports the production of plant proteins, including DNA and RNA, allowing plants to manifest their full genetic potential.
- INCREASED GROWTH & YIELD: By supporting the production of chlorophyll, protein, and nucleic acids, plants grow faster, stronger, and healthier, producing an overall higher yield.

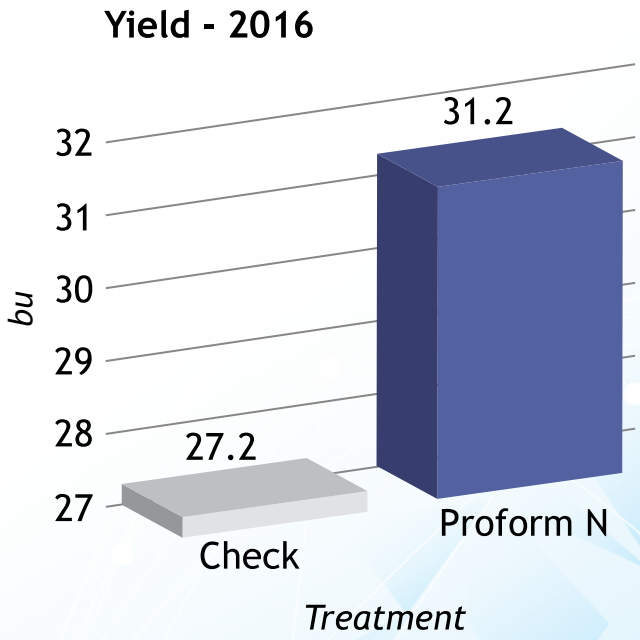
Proform N™

# CANOLA

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 23.4 | 27.6 | 26.3 | 31.6 | 27.2 | |
| PROFORM N | 34.4 | 34.3 | 27.7 | 28.3 | 31.2 | 14.5 |



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active KONNECT™

# ENHANCED SHOOT ARCHITECTURE & FRUIT DEVELOPMENT

CFIA registration number: 2016149A

# active KONNECT™

## FRUIT, GRAIN & NUT DEVELOPMENT ENHANCER

Active Konnect™ is especially important during fruit and grain development in order to increase sugar metabolism & translocation.

**GUARANTEED MINIMUM ANALYSIS:**

Soluble Potash ($K_2O$) ..... 30.0%
Cytokinin ..... 0.005%

WHY TO USE: Increase the volume and quality of your crop. The application of this specially designed formula gives a boost to the final stages of the plant reproduction cycle, increasing fruit, pod and seed growth and nutritional quality.

WHEN TO USE: Wheat: One application at grain filling. Canola: One application at herbicide timing and early flowering. Soybeans and other pulses: One application at herbicide timing. Fruit and nut trees, berries: between fruit set and ripening, every 14-20 days. Tomatoes, vegetables: as needed to increase potassium levels, every 14-20 days.

HOW TO USE: 1-2 L (1-2 qt) per acre.

HOW IT WORKS: Active Konnect™ provides chelated potassium, cytokinins, amino acids, simple sugars and organic acids. Potassium allows production of protein, while cytokinins enhances cell division and growth, and stimulates branching. The specially designed combination of ingredients allows rapid uptake and utilization, resulting in increased volume, size, and quality of fruit, grain, and nuts.

MIXING INSTRUCTIONS:

1. Active Konnect™ is intended as a foliar spray and should be applied in the early morning or late afternoon. Do not apply when air temperatures are above 29°C (85°F) and avoid spraying on windy days.
2. Always start with a clean mixing tank.
3. Add sufficient water to allow thorough coverage of fields. 400 L (106 US gal) of water per acre is recommended for fruit trees and 20-40 L (5-10 gal) of water for field crops.
4. Add other agrochemicals, if desired, and mix well.
5. Add 1-2 L (1-2 qt) Active Konnect™ per acre and mix well.
6. Apply to fields as indicated for type of crop.

BENEFITS: Active Konnect™ is a potassium supplement that is particularly beneficial during the development or early growth of fruit, grain and nuts, and can be used throughout the growing season to increase potassium levels. For the best results, use the complete line of recommended Active AgriScience™ products for your crop. **Wheat:** Active Prime™, Active Build™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Corn, Hops:** Active Prime™, Active Build™, Active Flower™, Active Complete™, Proform N™, Micronutrients as needed. **Canola, Soybean, Pulses, Tomatoes, Vegetables:** Active Prime™, Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed. **Tree Fruit, Tree Nuts:** Active Build™, Active Flower™, Active Complete™, Proform N™, Active Konnect™, Micronutrients as needed. **Berries:** Active Build™, Active Flower™, Proform N™, Active Konnect™, Micronutrients as needed.

active KONNECT™

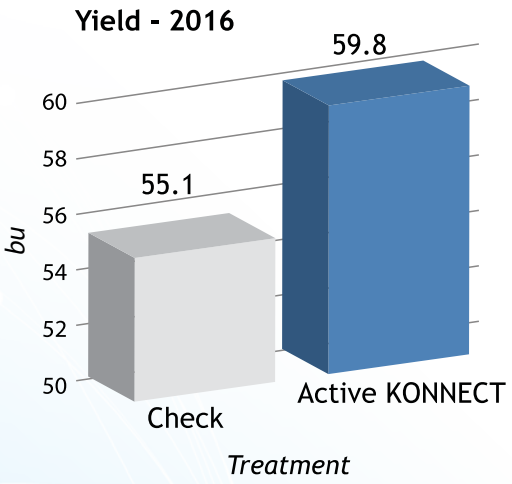
# PEAS

- INCREASED VOLUME & QUALITY: Active Konnect™ supports fruit, grain and nut development, resulting in a higher volume of larger, higher quality product.
- INCREASED BRANCHING: Cytokinins present in Active Konnect™ enhance cell division and expansion, and also activate lateral or axillary bud growth allowing crops to have more branches, and therefore, more flowers and pods.
- INCREASED SUGAR LEVELS AND FLAVOUR: Potassium regulates sugar translocation and metabolism, and by providing extra potassium in chelated form, there is an increase in fruit sugar and flavour.

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

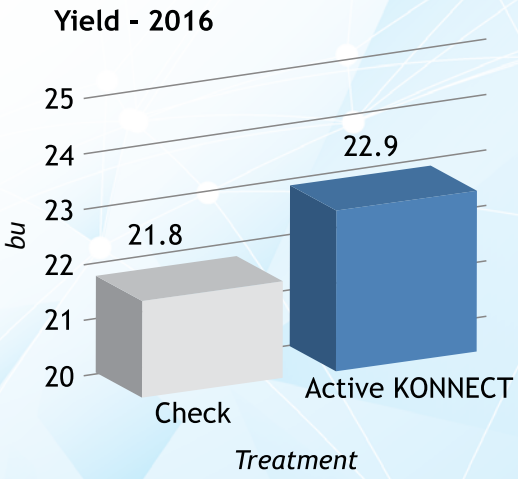
| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 51.3 | 42.5 | 64 | 62.4 | 55.1 | |
| Active KONNECT | 62.4 | 49.9 | 64 | 62.8 | 59.8 | 8.6 |



## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 21.4 | 21.3 | 21.2 | 23.3 | 21.8 | |
| Active KONNECT | 22.8 | 23.5 | 22.8 | 22.6 | 22.9 | 5.3 |



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For maximizing the genetic potential of your crops & yields per plant, for early germination, increased seedling vigor and better root growth, use the complete line of recommended Active AgriScience™ products for your crop.

# WHEAT

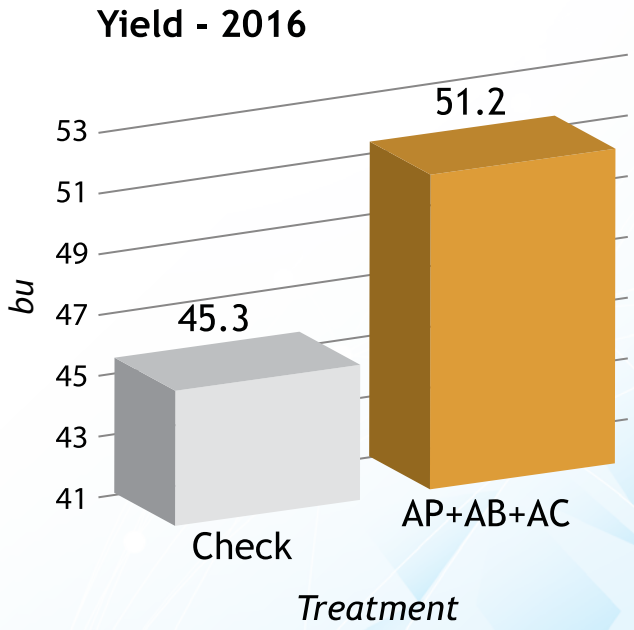
Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active COMPLETE

## YIELD DATA – 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 47.7 | 41.7 | 48 | 43.6 | 45.3 | |
| AP+AB+AC | 52.5 | 47.1 | 50.2 | 55.1 | 51.2 | 13.2 |



# WHEAT

Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active COMPLETE

# CANOLA

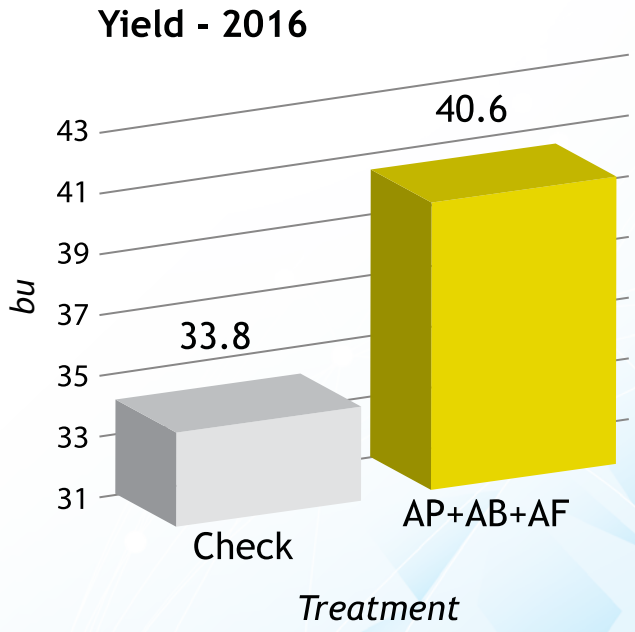
Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 27.2 | 33.2 | 43.6 | 31.3 | 33.8 | |
| AP+AB+AF | 40.2 | 43.8 | 41.3 | 37 | 40.6 | 20.0 |



# CANOLA

Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER

ANOTHER HAPPY FARMER.
Ken Wourms, Wourms Genetics Inc. (St. Walburg, SK)
Average yield: **82 bu/acre**

# SOYBEAN

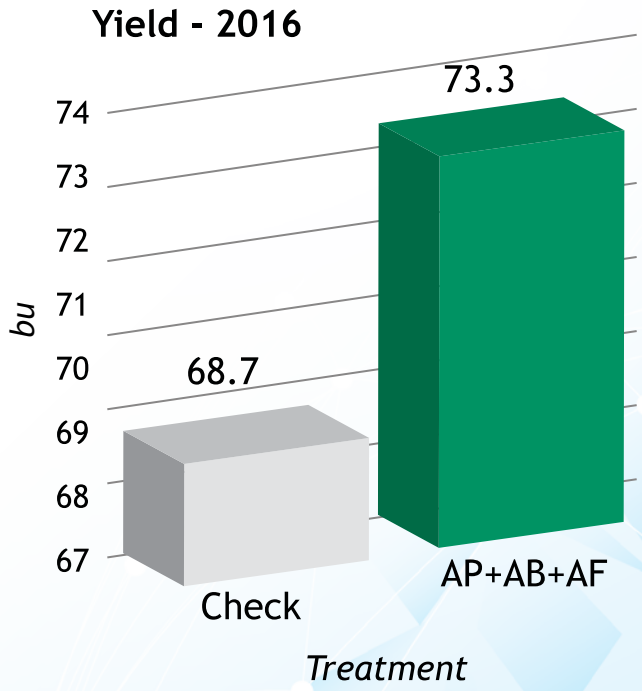
Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 69.1 | 65 | 69.9 | 70.6 | 68.7 | |
| AP+AB+AF | 72.8 | 71.2 | 74.2 | 74.9 | 73.3 | 6.7 |



# SOYBEAN

Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER

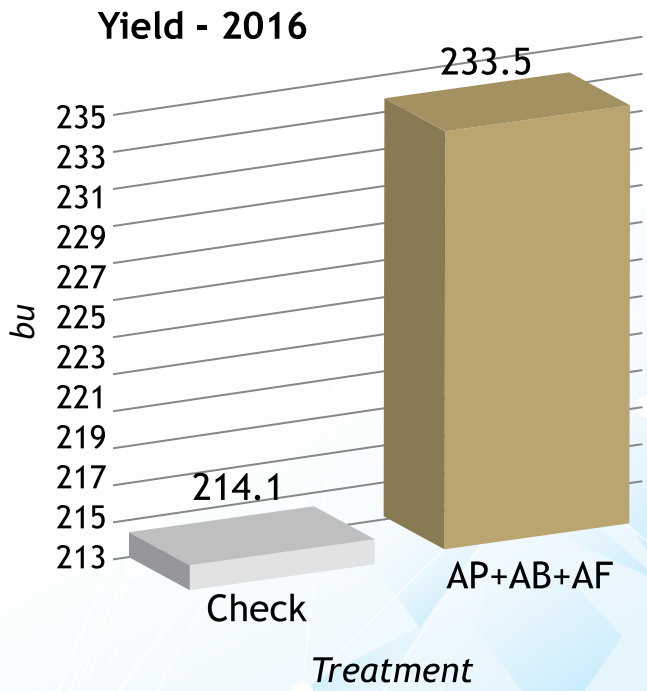
Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER

## YIELD DATA - 2016

RESEARCH CONDUCTED BY AGQUEST

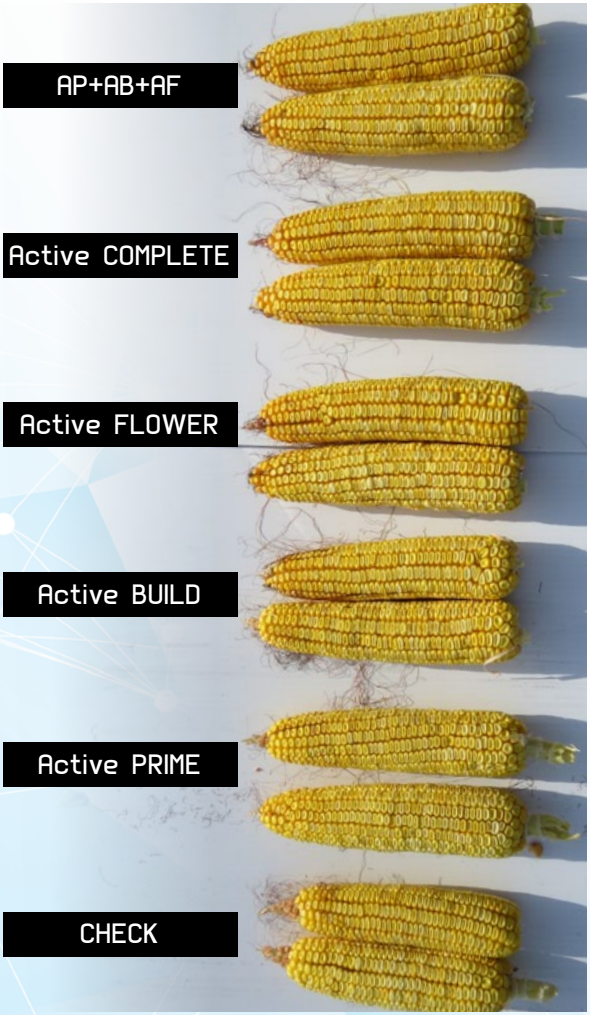
| Treatment | Yield (bu/acre) | | | | Mean Yield (bu/acre) | % Increase |
|---|---|---|---|---|---|---|
| | Rep1 | Rep2 | Rep3 | Rep4 | | |
| Check | 203.4 | 226.7 | 210.1 | 216 | 214.1 | |
| AP+AB+AF | 234.9 | 230.8 | 229.8 | 238.3 | 233.5 | 8.4 |



# CORN

Recommended Active AgriScience™ products:

• Active PRIME • Active BUILD • Active FLOWER



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