



# FALL AGRONOMY GUIDE







# Contacts



**Bob Nutt**  
**Crop Production**  
**Manager**  
**785-418-5031**

**Calvin Wenger**  
**Seed Manager**  
**620-504-2135**

**Tim Horton**  
**Sales**  
**785-418-7958**

**Joe Redman**  
**Sales**  
**785-214-9525**

**Delvin Harris**  
**Sales**  
**785-418-0777**

**Brian Green**  
**Crop Scout**  
**785-307-6129**

# Fall Spraying Recommendations

## Soybeans

Blanket 4F	4-6 ounces/acre
Sonic	4 ounces/acre
Metribuzin	8 ounces/acre
Valor XLT	3 ounces/acre

## Corn

Atrazine 4L	1 quart/acre
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## Soybeans or Corn

Autumn Super	.5 ounces/acre
Valor SX	2 ounces/acre

**All products should be sprayed with a pint of clarifier for optimal weed control.**



# Wheat Programs

## Greenup

	<u>Rate/Acre</u>
Urea	80 lbs. N + NutriSphere
Finesse	.3 oz/acre
Harmony Extra	.6 -.9 oz/acre

## At Flag Leaf

Quilt Xcel	Fungicide
or	
Twinline	Fungicide



Fungicide

## Wheat Hi-Yield Program

1<sup>st</sup> topdress 70 lbs. N + NutriSphere

2<sup>nd</sup> trip: Fungicide

## Wheat Fungicide Application Timing

<u>Fungicides</u>	<u>Apply at</u>	<u>Rate</u>
Headline	Feekes 4-6	6 fl oz/ac
Priaxor	Feekes 4-6	4 fl oz/ac
Twinline	Feekes 9	7-9 fl oz/ac
Caramba	Feekes 10.5	13.5 fl oz/ac

Quilt Xcel 10.5 oz from full flag leaf emergence (10 Feekes) through full head emergence (10.5 Feekes)

# Why Stabilize your Nitrogen?

- More nitrogen available for plant uptake by slowing the conversion of nitrogen into forms that can be lost through *volatilization*, *leaching* and *denitrification*
- Ensures longer period of increased nitrogen availability for plant uptake
- Maintaining N improves potential for maximizing yield
- Stabilizing N protects the environment
  - Prevents leaching nitrate into surface and ground water
- Protects applied nitrogen for a full 10-12 months
- Provides flexibility in application schedules

**OUR UREA IS 100% TREATED**



# Nitrogen Stabilizers

## N-Serve Nitrogen Stabilizer for Anhydrous

### What it does:

- Reduces Nitrogen loss
- Improves standability
- Provides healthier corn and consistently higher yields
- Reduces risk of stalk rot
- Enables quicker crop dry down
- Reduces leaching of nitrates and denitrification
- Keeps nitrogen available for corn crop and helps protect water quality

### When to use it:

- Add with anhydrous ammonia in fall and spring
- Rates: Add 1 qt. per acre



With N-Serve

Without N-Serve

## NutriSphere Nitrogen Stabilizer for Urea

- Add NutriSphere to urea to keep the nitrogen from leaching, volatilization and denitrification
- Topdress corn with urea + NutriSphere at V4 to V8 stages



# N-Serve®

## PROTECTS NITROGEN AT THE PLANT ROOT ZONE

### NITROGEN STABILIZER

#### N-Serve® Nitrogen Stabilizer

- Active ingredient is nitrpyrin
- Oil based formulation that mixes well with anhydrous ammonia
- Optimizes yield potential of corn when used with anhydrous ammonia
- Proven and trusted technology for over 35 years

#### How Does N-Serve® Work?

N-Serve® inhibits the Nitrosomonas bacteria in the soil keeping Nitrogen in the stable ammonium form longer and protected from leaching and denitrification.



#### Application Rates

Fall applications

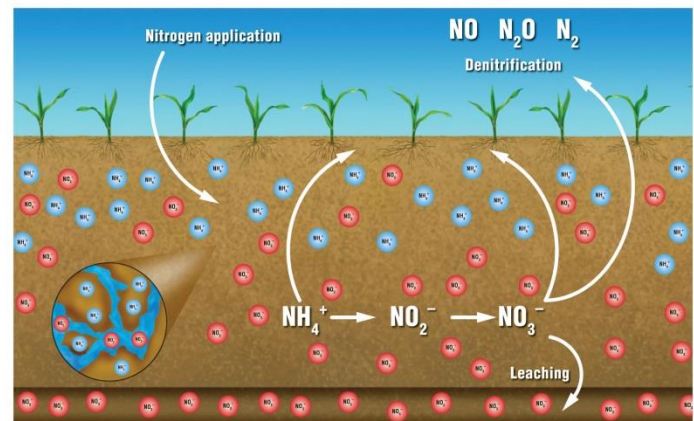
1 quart per acre

Spring applications

Pre-emerge: 1 quart per acre

Sidedress: 0.5 to 1 quart per acre

#### What Happens to Unstabilized Nitrogen?



#### When Do Nitrogen Losses Occur?

Most Nitrogen Losses occur during the Spring:

- Spring Rains and warm soil temperatures lead to heavy losses through both leaching and denitrification.
- Stabilizing with N-Serve® greatly reduces both leaching and denitrification protecting nitrogen in the root zone.

#### Stronger, Healthier Plants

- Increased yield
- Improved standability
- Reduced risk of stalk rot
- Increased grain protein
- Faster crop drydown

For more information about N-Serve® visit [www.NitrogenStabilizers.com](http://www.NitrogenStabilizers.com) or contact your local Dow AgroSciences sales representative.





## NutriSphere-N® Nitrogen Fertilizer Manager

The most advanced nitrogen protection available

### Expect more from your N

NutriSphere-N® Nitrogen Fertilizer Manager is proven to protect against leaching, volatilization and denitrification to give your corn a real advantage. Up to 50% of your applied nitrogen can be lost without it, which is why NutriSphere-N gives you a better return on your nitrogen investment.

### NutriSphere-N provides:

- Long lasting protection and stabilization of applied nitrogen
- More available nitrogen for both fall and spring applications
- Effective protection for both liquid and granular nitrogen fertilizers
- Better flexibility in your application schedule
- Zero environmental footprint

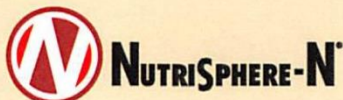
NutriSphere-N  
Corn Trials



Average  
Yield Increase

**13.2** bu./A\*

Based on 184 trials.



\*Data on file.  
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888.446.GROW | sfp.com







AVAIL<sup>®</sup> increases availability of applied phosphorus.



## The strongest phosphorus protection available

### HELP YOUR CORN REACH ITS FULL POTENTIAL

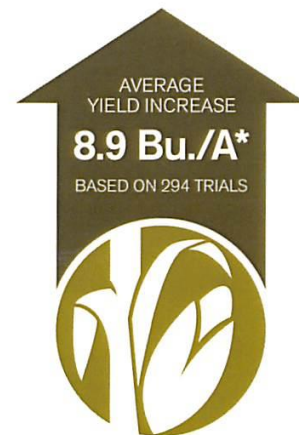
**AVAIL<sup>®</sup> Phosphorus Fertilizer Enhancer** increases the efficiency of your phosphorus (P) fertilizer no matter how - or when - you apply it. This gives you application flexibility and a better return on your phosphorus investment. When as much as 75-95% of untreated phosphorus can become fixed in the soil, AVAIL keeps it more available to your corn.

#### AVAIL PROVIDES:

- Increased efficiency of applied P in your soil for increased P uptake in the plant
- Stronger roots, healthier start and stronger finish
- More flexibility in your application schedule
- Effective protection for both dry and liquid phosphorus fertilizers

Contact your local **Ottawa Coop** location to ask how to add AVAIL to your fertility program today.

### AVAIL CORN TRIALS



vlsci.com | 800.868.6446

Tomorrow's Science Delivering Today's Returns

\*Data on file.  
Important: Always read and follow label use directions.  
AVAIL is a registered trademark of Verdesian Life Sciences.  
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## Wake up your crops.

Good morning sunshine. It's time to wake up your crops with Advantage Plus® a complete starter, with more vital nutrients than 10-34-0. Protect your yield, have more consistent emergence and start strong.

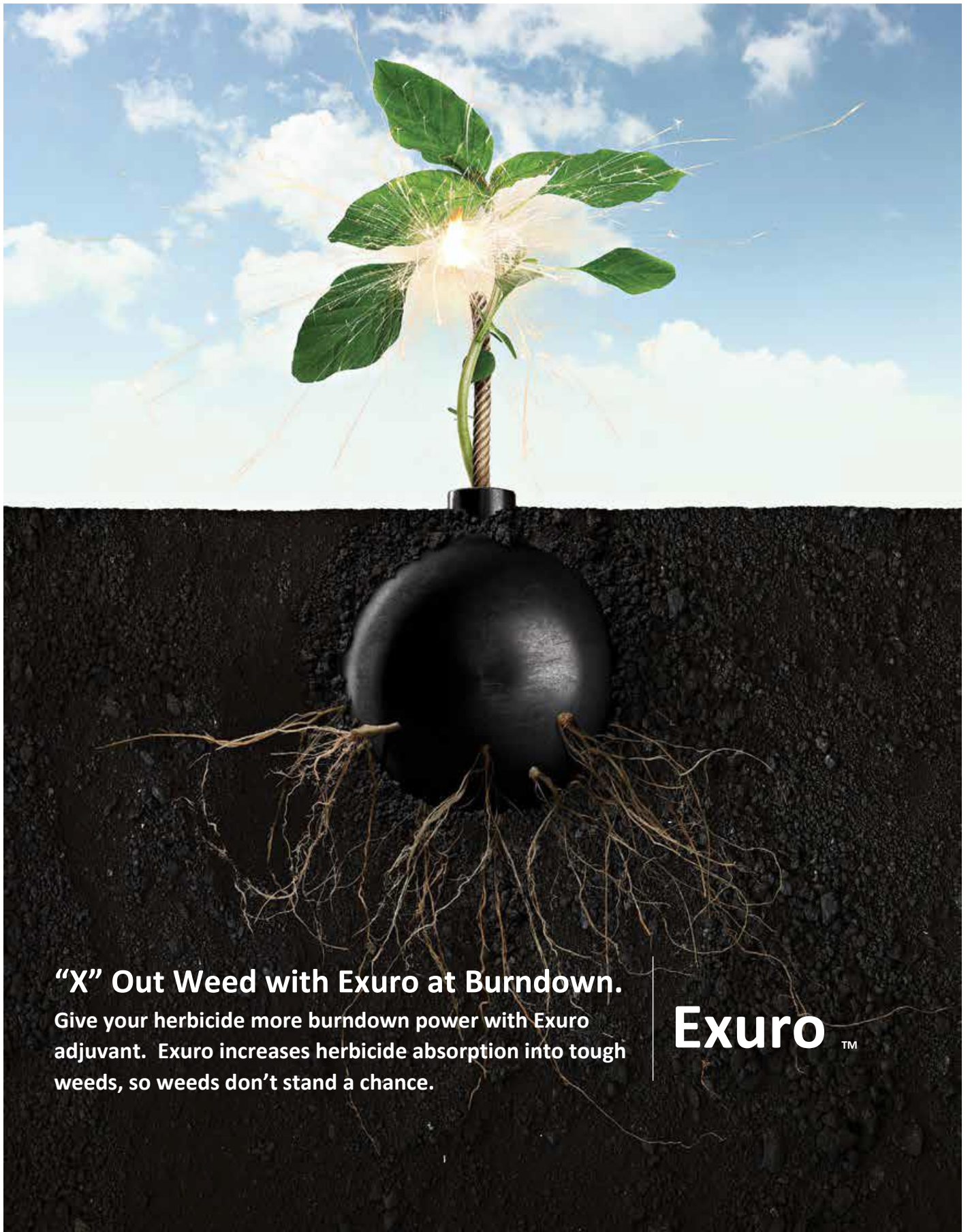


# Advantage Plus™

092215 Advantage Plus is a trademark of United Suppliers, Inc.







**“X” Out Weed with Exuro at Burndown.**

Give your herbicide more burndown power with Exuro adjuvant. Exuro increases herbicide absorption into tough weeds, so weeds don't stand a chance.

**Exuro** TM



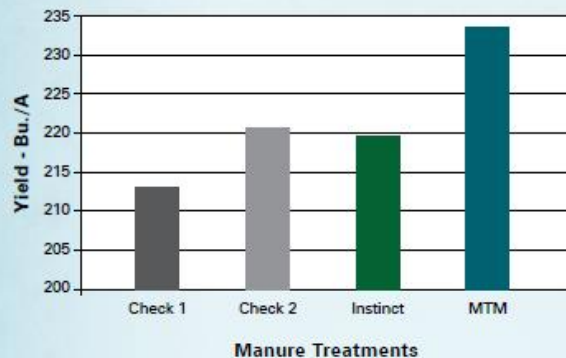
**HOG  
MANURE**

# **m** more than manure<sup>®</sup>

Nutrient Manager

More Than Manure<sup>®</sup> (MTM<sup>®</sup>) Nutrient Manager is the only product on the market proven to reduce phosphorus (P) lock-up and nitrogen (N) loss from leaching, volatilization and denitrification when applied to hog manure. By reducing valuable nutrient loss from your manure applications, it can help you see better overall crop performance and increased yield potential.

## Ohio Corn 2013



Sow Barn (Gestation and Farrowing) Deep Pit  
Manure treated and applied in October 2012.  
6,500 Gals./A Applied  
Sabina, Ohio

## MTM Benefits

- Crop rotation flexibility
- Non-toxic to livestock and soil bacteria
- No specialized mixing/application equipment required
- Reduces phosphorus lock-up in the soil
- Protects nitrogen from leaching, volatilization and denitrification
- Slowly biodegrades leaving no environmental footprint
- Can reduce ammonia levels in your confinement barns
- Can reduce solids in pits or lagoons

## Liquid Manure Systems

### Application Rate

18 oz. per acre

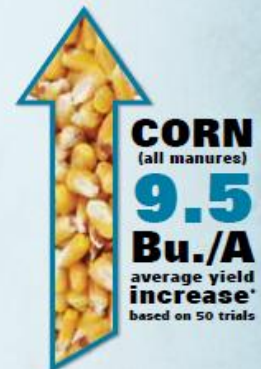
### Application Method

#### Full Pits or Lagoons:

- Add MTM to the pit or lagoon and agitate before pumping.
- If agitation is not available, add product to the load-out truck or honey wagon during fill.

#### Partially Filled Pits or Lagoons:

- Add all MTM required to treat full pit or lagoon when pit or lagoon is 25% or more full.



## Liquid Mixing Equation:

$$\frac{\text{# Gallons in pit, lagoon, load-out truck or honey wagon gallons}}{\text{# Gallons of manure applied per acre}} \times \frac{18 \text{ oz./acre rate}}{128 \text{ oz./gallon mix}} = \text{Gallons of MTM required for pit, lagoon, load-out truck or honey wagon}$$



# SEED

## Corn



**DKC51-20:** (101 day) Drought guard VT2 hybrid, our most popular in the early maturity lineup.

**DKC57-77:** (107 day) Drought guard VT2 hybrid, very versatile corn with medium maturity.

**DKC63-55:** (113 day) Drought guard VT2 hybrid, the most popular corn in our lineup, very good flex, can be placed on almost any ground type.

## Soybeans



**AG4232:** (4.2 maturity) Roundup Ready 2 trait, great early bean very good fit on most soil types.

**AG4831:** (4.8 maturity) Roundup Ready 2 trait, our most popular bean for the last several years, fits on any acre.

**AG4835:** (4.8 maturity) Roundup Ready 2 trait, one of the newest genetics beans we offer, has been the top yielder in plot data for two straight years, great fit on good ground



**MY2V709:** (110 day) Smartstax hybrid, has a great fit on productive ground.

**MY2V717:** (111 day) Smartstax hybrid, very versatile corn fits well on tough acre.

**MY5N431:** (4.3 maturity) Roundup Ready 2 trait, very good early bean, has done really well in the plots the last two years.

**MY5N479:** (4.7 maturity) Roundup Ready 2 trait, tall healthy beans that yields very well on upland ground.



**ST9728EVT3PRO:** (110 day) VT3 hybrid, workhorse style that has a great fit on the tough acre with a flex ear.

**ST9739VT3PRO:** (113 day) VT3 hybrid, great stalk quality on this hybrid with good stress tolerance, performs best on productive ground at high populations.

**ST43RE02** (4.3 maturity) Roundup Ready 2 trait, very good defensive qualities broad placement options with medium height.

**ST47LF32** (4.7 maturity) Liberty Link trait, most popular liberty bean in our lineup, medium tall bean with a very good defensive package. Can be placed on any acre.

## Roundup Ready 2 Xtend Soybeans Now Available





# Soybean Seed Treatment Options

## ***Rancona XT Plus (Fungicide)***

- Protects seed from both seed-borne and soil-borne pathogens.
- Better chance of good stand
- Protection up to 3 weeks after planting



## ***Rancona Complete (Fungicide/Insecticide)***

- Contains all benefits of Fungicide treatment
- Added broad spectrum insect protection
- Up to 60 days of protection after planting, systemic so the product is absorbed into plant while growing.



## ***Preside CL (Inoculant)***

- High count live rhizobia bacteria with up to 90 days on seed out of ground survival
- Increased emergence and nodulation
- Takeoff technology included for increased nitrogen utilization



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Calvin Wenger  
Seed Manager  
calw@ottawacoop.com  
620-504-2135

# Cover Crops

## Cover Crop Mix I

10 lbs. Annual Rye

5 lbs. Tillage Radishes

2 lbs. Purple Top Turnips

## Cover Crop Mix II

43 lbs. Cereal Rye

5 lbs. Tillage Radishes

2 lbs. Purple Top Turnips

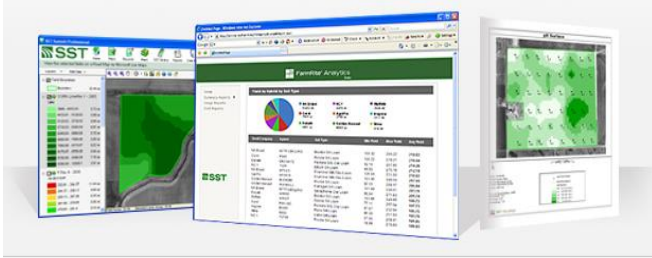
**Can be mixed in 2000 lb. bags with blending fee of .05 per pound. All seed will be sold separate also.**

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Calvin Wenger  
Seed Manager  
calw@ottawacoop.com  
620-504-2135

# PRECISION FARMING

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## Why Precision Farming?

- Take inventory of fertility on each field.
- Stop throwing fertilizer \$ where it is not needed.
- Variable rate application technologies allow you to place the products only where needed to maximize crop productivity.
- Utilize Yield data and make it useful in fertility, seed, and production.
- Know the right placement of seed hybrids for maximum profitability.
- To be an overall better manager of all farming practices.

## Solutions for Better Decision making

- Maximize economic yields by utilizing information based on sound decision making.
- Utilized multi years of information trends for decision making.
- Make hybrid/variety decisions based on your operations performance.
- Utilize multi-layers of information in analysis process.



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Call the **Ottawa Coop Crop Production** office if you are interested.  
785-242-1032





# CROP SCOUTING

- Monitor fields from preplant burn down applications to dry down for harvest.
- Find problems at a minimal stage before it reaches the Economic Injury Level (EIL)
- Full team of agronomists develops the best treatments/recommendations.
- Best chance to maximize yield by catching problems early.



## What's Included?

### Weekly field checks

- Weeds, diseases, insects
- Deficiencies
- Growth stages, Population counts, Yield estimates
- Tissue/Soil Sampling for nutrient monitoring
- General crop health monitoring

Call the **Ottawa Coop Production Office** for further information if interested. (785) 242-1032

# Notes

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[www.ottawacoop.com](http://www.ottawacoop.com)



A dirt path winds through a lush green cornfield. The corn plants are tall and healthy, with some tassels visible. The path is a reddish-brown color, and the shadows of the corn plants are cast onto it. In the distance, a single tree stands against the horizon. The sky is a vibrant blue, filled with fluffy white clouds.

**C**lean fields mean higher yields  
and more money in your pocket.  
Let us help you get there with our  
selection of industry-leading  
herbicide solutions that are tough  
on weeds.