



2024

# CROP PROTECTION GUIDE

Herbicides | Insecticides | Fungicides | Adjuvants | Crop Nutrition



# OUR MISSION:

## POWERING THE PROSPERITY OF FAMILY FARMERS AROUND THE WORLD



To be a farmer is to live in a highly unpredictable world, where even unrelenting hard work doesn't guarantee success. Which is why FBN® is on a mission to provide our farmer members more control every day, in every decision that affects their livelihood.

Since 2014, *FBN* has been building an online platform that helps put family farmers in the driver's seat. Through better use of data and technology, we are redefining value and convenience to help farmers make confident decisions that reduce costs and maximize revenue potential.

To learn more about our crop protection products, or to talk to an *FBN* representative, call **844-4-INPUTS** or visit **FBN.com** today.

## HIGH QUALITY, TRUSTED CROP PROTECTION AT A GREAT PRICE

FBN offers a wide range of quality herbicide, insecticide, fungicide, adjuvant and nutrition solutions that help farmers effectively protect and nourish their crops. We carry generic alternatives to many of the latest crop protection brands, plus a line of adjuvant and crop nutrition solutions uniquely selected to address the growing demands of crop production.

Our full line of crop protection and nutrition solutions is available to view online at FBN.com where farmers can access transparent list prices, flexible payment options and direct-to-farm delivery on qualified orders.



HERBICIDE



INSECTICIDE



FUNGICIDE



ADJUVANT



CROP NUTRITION

### FBN PRODUCT LINES



FARMERS  
FIRST

The Farmers First™ brand of adjuvants and crop nutrition products offer farmers a broad portfolio of great value, quality products that will be a farmer's first choice to power the performance of their crop protection and nutrition program. Look out for more product categories coming under the *Farmers First* brand in the future.

WILLOWOOD USA 

The Willowood USA line of crop protection products includes a wide range of generic alternatives to many crop protection brands, including non-selective and selective herbicides, insecticides and fungicide products.



# FBN CROP PROTECTION GENERIC ALTERNATIVES

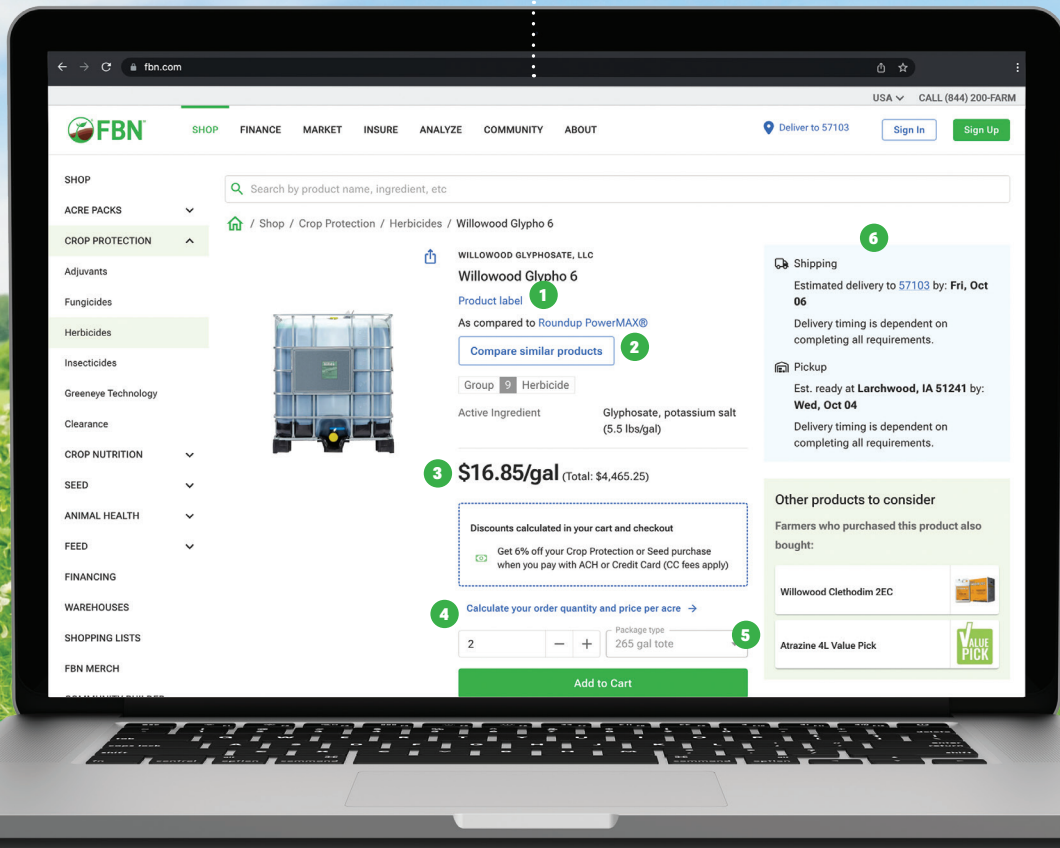
BRAND NAME	COMMON ACTIVE INGREDIENT	FBN PRODUCT <i>Visit FBN.com for product availability</i>
● 2,4-D LV6	2,4-D, 2-ethylhexyl ester (5.50)	<b>NEW!</b> GCS 2,4-D LV 6 Ester
● AAtrex® 4L	Atrazine (4.00)	<b>NEW!</b> GCS Atrazine 4L <sup>1</sup>
● Abolish® 8 EC	Thiobencarb (8.00)	Willowood Thioben 8EC
● Admire® Pro	Imidacloprid (4.00)	Imidacloprid 4.00 Value Pick
● Affinity® BroadSpec	Thifensulfuron (25.00%) + Tribenuron-methyl (25.00%)	Trifensulfuron 25% + Tribenuron-methyl 25% Value Pick
● Affinity® Tank Mix	Thifensulfuron (40.00%) + Tribenuron-methyl (10.00%)	Trifensulfuron 40% + Tribenuron-methyl 10% Value Pick
● AFrame™	Azoxystrobin (2.08)	GCS Azoxy 2SC
● Agri Star® Ozone 3.0	Flucarbazone-Sodium (1.75)	Agri Star® Ozone 3.0
● Agri-Mek® SC	Abamectin (0.70)	Willowood Abamectin 0.7SC <sup>1</sup>
● Aim® EC	Carfentrazone-ethyl (2.00)	Carfentrazone Value Pick
● Anthem® MAXX	Fluthiacet-methyl (0.13) + Pyroxasulfone (4.17)	Anthem® Maxx
● Armezon®	Topramezone (2.80)	Impact®
● Assure® II	Quizalofop-p-ethyl (0.88)	Se-Cure EC
● Authority® Assist	Imazethapyr (0.67) + Sulfentrazone (3.33)	Imazethapyr .67 + Sulfentrazone 3.33 Value Pick
● Authority® First DF	Cloransulam-methyl (7.90%) + Sulfentrazone (62.10%)	Willowood Sulfen Cloran
● Authority® MTZ	Metribuzin (27.00%) + Sulfentrazone (18.00%)	Willowood Sulfen Met DF
● Authority® XL	Chlorimuron (7.78%) + Sulfentrazone (62.22%)	Willowood Sulfen Chlorim
● Banvel®	Dicamba DMA (4.00)	Dicamba DMA 4 Value Pick
● Basagran®	Bentazon (4.00)	BashAzon
● Bravo Weather Stik®	Chlorothalonil (6.00)	Chlorothalonil 6.0lb Value Pick
● Brigade® 2EC	Bifenthrin (2.00)	GCS Bifenthrin LFR 1.5 Value Pick <sup>1</sup>
● Buccaneer® 5 Extra	Glyphosate, N-(phosphonomethyl) glycine in the form of its isopropylamine salt	Willowood Glypho 5
● Callisto®	Mesotrione (4.00)	Willowood Mesotrione 4SC
● Capture® LFR®	Bifenthrin (1.50)	GCS Bifenthrin LFC <sup>1</sup>
● Clarity®	Dicamba DGA (4.00)	Dicamba DGA 4 Value Pick
● Cobra®	Lactofen (2.00)	Lactofen 2.00 Value Pick
● Command® 3ME	Clomazone (3.00)	Willowood Clomazone 3ME
● Daze® 4SC	Thidiazuron (4.00)	Thidiazuron 4 Value Pick
● Deadbolt®	Bromoxynil octanoate (2.00) + MCPA, 2-ethylhexyl ester (2.00)	Bromoxynil + MCPA Value Pick
● Defy® Amine 4	2,4-D, dimethylamine salt (3.80)	Alligare 2,4-D Amine
● Direx® 4L	Diuron (4.00)	Alligare Diuron 4L
● Dual II Magnum®	S-metolachlor (7.64)	S-Metolachlor Value Pick
● Engenia®	Dicamba (5.00)	Engenia® <sup>1</sup>
● Enlist One®	2,4-D, choline salt (3.80)	Enlist One®
● Facet® L	Quinclorac (4.02)	Prize
● FirstRate®	Cloransulam-methyl (84.00%)	Willowood Cloran DF
● Flexstar®	Fomesafen (1.88)	Fomesafen 1.88 Value Pick
● Goal®	Oxyflorfen (1.88)	Willowood OxyFlo 2EC
● GoldSky®	Florasulam (0.02) + Fluroxypyr 1-methylheptyl ester (0.71) + Pyroxasulfone (0.11)	GoldSky®
● Gramoxone® SL 3.0	Paraquat Dichloride (3.00)	Willowood Paraquat 3SL <sup>1</sup>
● Grazon® P+D	2,4-D, triisopropanolamine salt (2.00) + Picloram, triisopropanolamine salt (0.54)	Gunslinger® P+D <sup>1</sup>
● GrazonNext® HL	2,4-D, dimethylamine salt (3.33) + Aminopyralid, Triisopropanolammonium salt (0.41)	Gunslinger® AMP <sup>1</sup>
● Harness® Xtra	Acetochlor (4.30) + Atrazine (1.70)	Acetochlor 4.30 + Atrazine 1.70 Value Pick <sup>1</sup>
● Harness® Xtra 5.6L	Acetochlor (3.10) + Atrazine (2.50)	Acetochlor 3.10 + Atrazine 2.50 <sup>1</sup>
● Harness®/Breakfree® NXT	Acetochlor EC (7.00)	GCS Acetochlor 7EC
● Huskie® Herbicide	Bromoxynil heptanoate (0.86) + Bromoxynil octanoate (0.89) + Pyrasulfotole (0.31)	Huskie® Herbicide

BRAND NAME	COMMON ACTIVE INGREDIENT	FBN PRODUCT <i>Visit FBN.com for product availability</i>
● Intrepid 2F®	Methoxyfenozide (2.00)	GCS Methoxy 2F
● Liberty®	Glufosinate-ammonium (2.34)	Willowood Glufosinate 280SL
● Mepex®	Mepiquat Chloride (0.35)	Mepiquat Chloride (.35) Value Pick
● Norton® SC	Ethofumesate (4.00)	Willowood Ethofumesate 4SC
● Onager®	Hexythiazox (1.00)	Hexy 1E
● Onset® 3.6L	Tebuconazole (3.60)	Willowood Teb 3.6SC
● Orthene® 97	Acephate (97.00%)	Acephate 97.00% Value Pick
● Pedestal®	Novaluron (0.83)	Diamond®
● Prevathon®	Chlorantraniliprole (0.43)	Prevathon®
● Priaxor® Xemium® Brand Fungicide	Fluxapyroxad (1.39) + Pyraclostrobin (2.78)	Priaxor® Xemium® Brand Fungicide
● Prowl® H2O	Pendimethalin (3.80)	Pendimethalin 3.80 Value Pick
● Pursuit®	Imazethapyr (2.00)	Willowood Imazethapyr 2SL
● Quali-Pro® Abamectin 0.15 EC	Abamectin (0.15)	Willowood Abamectin 0.15LV <sup>1</sup>
● Quilt Xcel®	Azoxystrobin (1.18) + Propiconazole (1.02)	GCS AzoxyProp
● Raptor®	Imazamox	Imamazox 1.00 Value Pick
● Resicore®	Acetochlor (2.80) + Clopyralid (0.19) + Mesotrione (0.30)	Aceto 2.80 + Meso .30 + Clopy .19 Value Pick
● Rhonox®	MCPA, 2-ethylhexyl ester (3.70)	MCPA, 2-ethylhexyl ester 3.70 Value Pick (2/2.5)
● RiceBeaux®	Propanil (3.00) + Thiobencarb (3.00)	Willowood Thionil EC
● RiceShot®	Propanil EC (4.00)	Willowood Propanil EC
● RightLine®	Pronamide (3.30)	Willowood Pronamide 3.3SC <sup>1</sup>
● Roundup PowerMAX®	Glyphosate, N-(phosphonomethyl) glycine, in the form of its potassium salt	Willowood Glypho 6
● Sandea®	Halosulfuron-methyl (75.00%)	Halosulfuron-methyl (75.00%) Value Pick
● Select® 2EC	Clethodim (2.00)	Clethodim 2lb Value Pick
● Sencor®	Metribuzin (75.00%)	Willowood Metribuzin 75DF
● Sharpen® Powered by Kixor® Herbicide	Saflufenacil (2.85)	Sharpen® Powered by Kixor® Herbicide
● Silencer®	Lambda-cyhalothrin (1.00)	Willowood Lambda-Cy 1EC <sup>1</sup>
● Spartan® 4F	Sulfentrazone (4.00)	Willowood Sulfen 4SC
● Stalwart® 3W	Atrazine (1.66) + Mesotrione (0.22) + Metolachlor (1.70)	Meto 1.7 + Meso .22 + Atrazine 1.66 Value Pick <sup>1</sup>
● Stalwart® C	Metolachlor (7.80)	GCS Metola Plus 8EC
● StareDown™	Fluroxypyr 1-methylheptyl ester (1.60)	Fancy
● Status®	Dicamba, sodium salt (44.00%) + Diflufenopyr-sodium (17.10%)	Status®
● Stinger®	Clopyralid, monoethanolamine salt (3.00)	Clopyralid 3.00 Value Pick
● Super Boll®	Ethephon (6.00)	Ethephon Value Pick
● SuperWHAM!®	Propanil (4.00)	Willowood Propanil 4SC
● SureStart® II	Acetochlor (3.75) + Clopyralid, Monoethanolamine salt (0.29) + Flumetsulam (0.12)	Aceto 3.75 + Clopyralid + Flumet .12 Value Pick
● TebuStar® 45 WSP	Tebuconazole (45.00%)	Willowood Teb 45DF
● Tilt®	Propiconazole (3.60)	Willowood Propicon 3.6EC
● Topsin® 4.5FL	Thiophanate-methyl (4.50)	Thiophanate-methyl 4.50 Value Pick
● Triumph® 22K	Picloram, potassium salt (2.00)	Alligare Triumph® 22K <sup>1</sup>
● Trivapro®	Azoxystrobin (0.92) + Benzovindiflupyr (0.25) + Propiconazole (1.04)	Trivapro®
● Valor® SX	Flumioxazin (51.00%)	Flumioxazin 51% WDG Value Pick
● Valor® SX Herbicide	Flumioxazin (4.00)	<b>NEW!</b> Maxunitech Flumi SC Ag
● Warrant®	Acetochlor (3.00)	Arrest CS
● WeedMaster®	2,4-D, dimethylamine salt (2.87) + Dicamba DMA (1.00)	2,4-D Amine 2.87 + Dicamba DMA 1.00 Value Pick
● WideMatch®	Clopyralid, monoethanolamine salt (0.75) + Fluroxypyr 1-methylheptyl ester (0.75)	Clopyralid .75 + Fluroxypyr .75 Value Pick
● Zidua® SC	Pyroxasulfone (4.17)	Zidua® SC

# ORDER CONFIDENTLY

Get an easy ordering experience at FBN.com. Our online store makes it fast and simple to navigate, find and compare products, and view transparent list pricing. Shop by category, browse featured products and get labeled product suggestions based on the products you add to your cart.

- 1 **PRODUCT LABEL**
- 2 **COMPARISON PRODUCTS**
- 3 **TRANSPARENT LIST PRICES**
- 4 **CALCULATE COST PER ACRE**
- 5 **PACKAGE TYPE**
- 6 **DELIVERY INFORMATION**



Nothing contained on this page, including the prices listed, should be construed as an offer for sale, or a sale of products. All products and prices are subject to change at any time and without notice. Terms and conditions apply.

# FLEXIBLE FINANCING

## OPERATING LINES

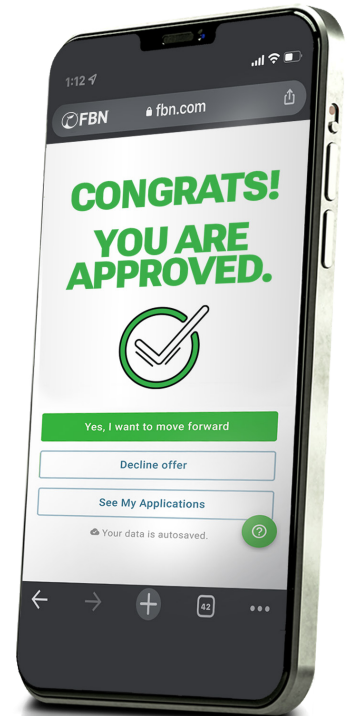
Apply online and receive an instant decision and **3.99% interest on FBN inputs** when you purchase before November 21, 2023.

- Pay for *FBN* inputs, plus other ag operating expenses like rent, labor and more. Subject to limitations in the financing agreement.
- No payments due until March 1, 2025
- Fixed rate, revolving lines of \$100,000 - \$1 million available
- **Special Offer:** Lock in your interest rate on *FBN* inputs through August 31, 2024 with a minimum purchase! Spend a minimum of \$50,000 on *FBN* inputs or \$10,000 on livestock products alone by November 21, 2023 for 3.99% on *FBN* inputs all season long.

## INPUT FINANCING: FOR *FBN* PURCHASES

Get a decision in as soon as 1 business day and **5.99% interest on FBN inputs** when you purchase before November 21, 2023. Add to your *FBN* Finance Operating Line for even more spending power.

- Pay for *FBN* inputs only
- No payments due until January 1, 2025
- Fixed rate, non-revolving lines of \$10,000 - \$500,000 available
- **Special Offer:** Lock in your interest rate on *FBN* inputs through August 31, 2024 with a minimum purchase! Spend a minimum of \$50,000 on *FBN* inputs or \$10,000 on livestock products alone by November 21, 2023 for 5.99% all season long.



Tech screen(s) shown for illustrative purposes only.



**APPLY NOW AT [FBN.COM/FLEXFINANCING](https://fbn.com/flexfinancing)**

To learn more about our crop protection products, or to talk to an *FBN* representative, call **844-4-INPUTS** or visit **FBN.com** today.



# DISCOVER DIRECT-TO-FARM DELIVERY ON YOUR TERMS

**3-DAY OR  
QUICKER  
DELIVERY**

Get three days or quicker delivery during the growing season and estimated delivery dates before you buy with our **Delivery Transparency feature**. You choose delivery options suited to your schedule and stay informed by receiving delivery alerts and information about upcoming deliveries.

## WE'RE CLOSER THAN YOU THINK

When you choose *FBN*, you work closely with our network of Community Builders — independent sales representatives who sell products and services designed to give family farmers personal service. Combined with a world-class logistics network that spans over 75% of growing acreage in the United States within a 250-mile radius, *FBN* gives U.S. farmers the competitive advantages they need to succeed.





# U.S. LOGISTICS NETWORK

FRESNO, CA

BRIGHTON, CO

LARCHWOOD, IA

NEVADA, IA

NEWTON, IA

PERU, IN

WHITESTOWN, IN

HAYS, KS

SHAKOPEE, MN

OLIVE BRANCH, MS

MINOT, ND

WEST FARGO, ND

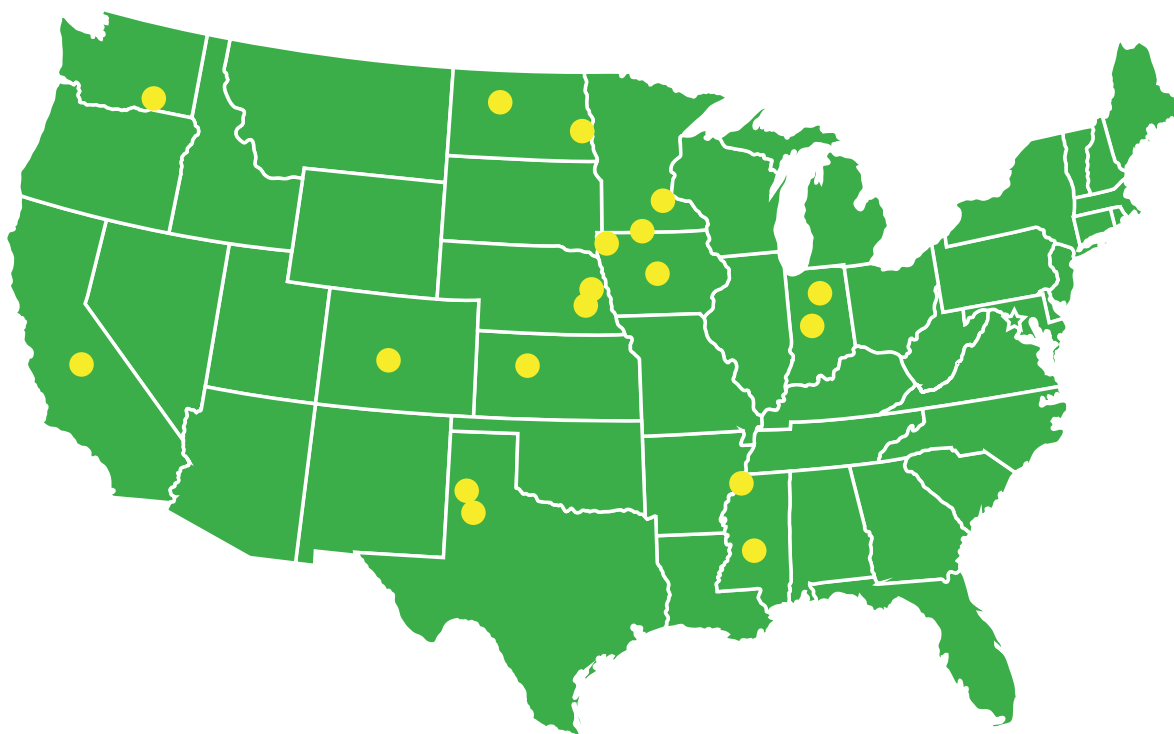
FREMONT, NE

LINCOLN, NE

LUBBOCK, TX

HEREFORD, TX

PASCO, WA



To learn more about our crop protection products, or to talk to an FBN representative, call **844-4-INPUTS** or visit **FBN.com** today.

# **NEW! *FBN* SHOPPING LISTS**

Stay organized, save time and ensure you have everything you need for a successful season.

**FBN.COM**

**FBN shopping lists** allow you to build, save and share lists of products from our online store. You can even see products you purchased in previous seasons. New customer? No problem! Upload an invoice, and we'll build a shopping list for you that translates the branded products into trusted *FBN* generics from our store.

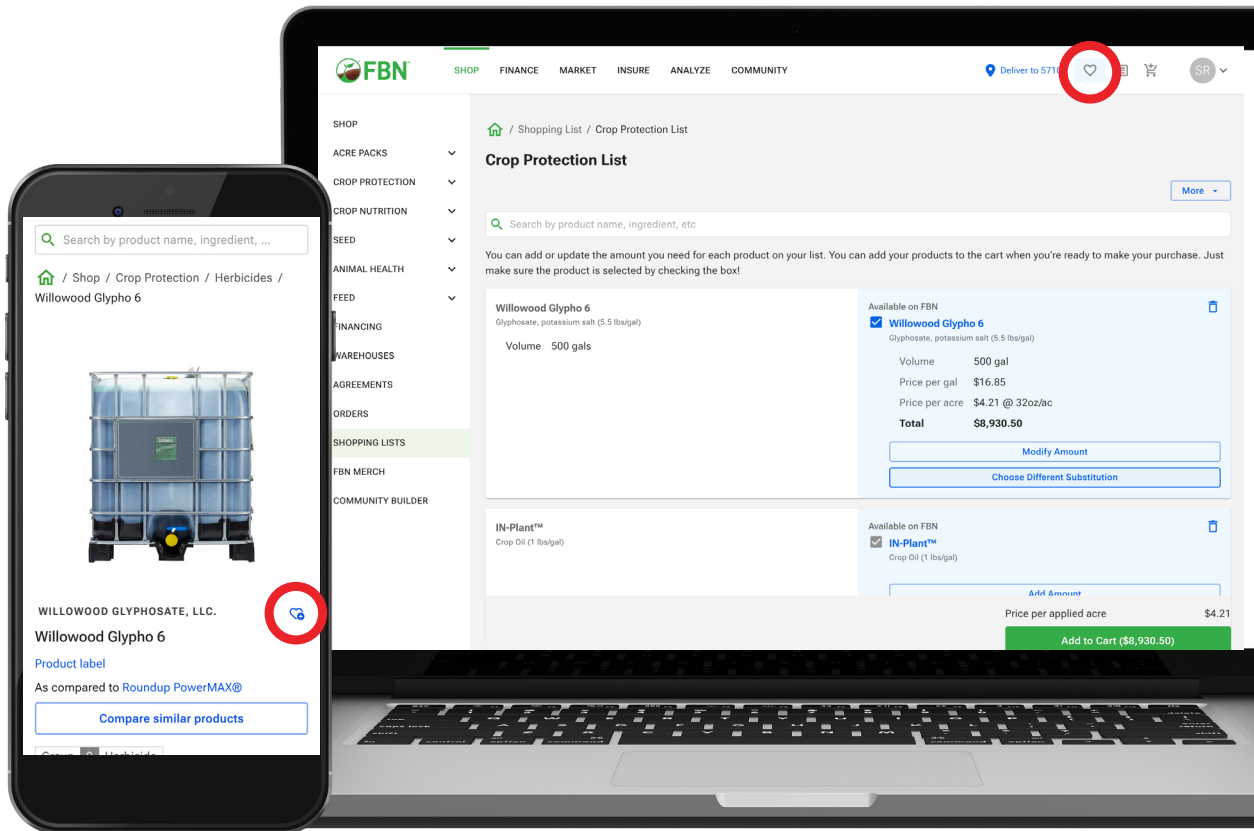


Email a photo of an invoice to [data@farmersbusinessnetwork.com](mailto:data@farmersbusinessnetwork.com) or upload directly in *FBN* app.

**Building a shopping list is simple.** Select a product from our store and use our handy product calculator to help you determine exactly the right amount of product you need. When you're ready to save, click the 'save' icon to create a new shopping list or add to an existing list. It's that easy.



Visit [FBN.com/Shop](https://FBN.com/Shop) today to build your shopping list.





# CORN

## HERBICIDES



### Willowood Glypho 5

Post emergence, non-selective herbicide offering broad spectrum control of many annual weeds in many agricultural systems and glyphosate-resistant crops. Formulated as a water-soluble liquid. Contains glyphosate, the active ingredient found in Buccaneer® 5 Extra Herbicide.



### Willowood Glypho 6

A group 9 post-emergence, non-selective herbicide for weed control in many agricultural systems and in Glyphosate-resistant crops. Formulated with potassium salt, which provides better rainfastness and improved performance under adverse conditions. It is also approved to be used in tank mixes with Enlist® One®.



### Willowood Glufosinate 280SL

Post emergence, non-selective herbicide for post emergence broadcast use on canola, corn, cotton and soybean designated as LibertyLink® or glufosinate tolerant. Contains glufosinate, the active ingredient in Liberty® Herbicide.



### GCS Atrazine 4L<sup>1</sup>

Preemergence and post emergence herbicide that controls many annual broadleaf weeds and grasses in corn, sorghum, sugarcane and other labeled crops. Contains atrazine, the active ingredient found in Aatrex® 4L Herbicide.



### GCS Acetochlor 7EC

Pre- and post emergence encapsulated herbicide for weed control in field corn, production seed corn, cotton, peanuts, forage or grain sorghum (Milo), soybeans and sugar beets. Contains acetochlor, the active ingredient in Warrant® Herbicide.



### GCS Metola Plus 8EC

Pre- and post emergence herbicide for control of broadleaf weeds and annual grasses in herbicide for use in corn, cotton, peanuts, soybeans and other labeled crops. Contains metolachlor, the active ingredient in Stalwart® C Herbicide.



### Acetochlor (3.10) + Atrazine (2.50)<sup>1</sup>

Preemergence herbicide for control of annual grasses and broadleaf weeds in corn. Contains acetochlor and atrazine, active ingredients in Harness® Xtra 5.6L.



### Aceto (3.75) + Clopyralid + Flumet (0.12) Value Pick

Preemergence and early post emergence herbicide for use on herbicide tolerant and conventional field corn and silage corn. Contains acetochlor, flumetsulam and clopyralid, the active ingredients in SureStart® II Herbicide.



### Willowood Mesotrione 4SC

Pre- and post emergence herbicide for control of annual broadleaf weeds in corn and other labeled crops. Contains mesotrione, the active ingredient in Callisto® Herbicide.



### Meto 1.7 + Meso 0.22 + Atrzn 1.66 Value Pick<sup>1</sup>

Pre- and post emergence herbicide for control of broadleaf weeds and grasses in corn and grain sorghum. Contains metolachlor, mesotrione and atrazine, the active ingredients in Stalwart® 3W Herbicide.



### Status®

Post emergence broad spectrum corn herbicide, in a safened formulation, specifically designed for use alone or with glyphosate combinations.



### Dicamba DGA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, soybeans, cotton, fallow, general farmstead (non-cropland), sorghum, grass grown for seed, hay, pasture, rangeland, small grains and other labeled crops. Contains dicamba DGA, the active ingredient in Clarity® Herbicide.



### Impact®

Post emergence systemic herbicide for control of emerged weeds in all types of field corn, seed corn, popcorn, and sweet corn, and weed control between crops.



### GCS 2,4-D LV 6 Ester

Pre- and post emergence herbicide for control of many broadleaf weeds and brush control in corn, small grains, soybeans (preplant) and other labeled crops. Contains 2,4-D and 2-ethylhexyl ester, the active ingredients found in 2,4-D LV 6 Herbicide.



### Willowood Paraquat 3SL<sup>1</sup>

Defoliant and desiccant herbicide for the control of weeds and grasses and as a harvest aid. Contains paraquat, the active ingredient in Gramoxone® SL 3.0 Herbicide.



### Sharpen® powered by Kixor® Herbicide

Contact burndown and rate-dependent residual preemergence broadleaf weed control in select field and row crops such as corn, cotton, forage grasses, rice, small grains, sorghum, soybean, fallow and postharvest croplands, pasture and other labeled crops.



### Dicamba DMA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, cotton, sorghum, soybean, small grains, pasture, hay, rangeland, farmstead (non-cropland), fallow and other labeled crops. Contains dicamba DMA, the active ingredient in Banvel® Herbicide.

HERBICIDES CONT'D

## FUNGICIDES



### GCS AzoxyProp

Broad spectrum fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin and propiconazole, the active ingredients in Quilt Xcel® Fungicide.



### GCS Azoxy 2 SC

Broad spectrum systemic fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin, the active ingredient in Aframe™ Fungicide



### Willowood Propicon 3.6EC

Broad spectrum fungicide formulated for the management of many plant diseases in labeled row and specialty crops. Contains propiconazole, the active ingredient in Tilt® Fungicide.

## INSECTICIDES



### Willowood Lambda-Cy 1EC<sup>1</sup>

Broad spectrum insecticide for use in many labeled row and specialty crops. Can be applied via ground or air. Restricted Use Pesticide. Contains lambda-cyhalothrin, the active ingredient in Silencer® Insecticide.



### GCS Bifenthrin 2EC<sup>1</sup>

Broad spectrum insecticide for control of insects and mites in many row and specialty crops, such as canola, corn, cotton, dried beans and peas, fruiting vegetables, grapes, head lettuce, peanuts, soybeans and other labeled crops. Contains bifenthrin, the active ingredient in Bifen 2EC Select™ Insecticide.



### Bifenthrin LFR 1.5 Value Pick<sup>1</sup>

Soil insecticide for control of labeled soil insect pests. Formulated so that it can be mixed directly with water. Contains bifenthrin, the active ingredient in Brigade® 2EC Insecticide.

## ADJUVANTS



### FieldGrip DRA

FieldGrip DRA is a high-concentrate emulsifiable deposition aid and drift management adjuvant.



### Even™ 34L

Even 34L is a liquid ammonium sulfate (AMS) water conditioner designed to reduce the antagonism of spray water impurities that can interfere with the performance of glyphosate, glufosinate and other herbicides.



### Even™ L Pro

Even L Pro is an optimized premix of drift management agents, deposition aids, AMS and surfactant. It is designed to enhance the performance and activity of pesticide sprays by reducing tie-up of herbicides in hard water, improving spray application coverage and minimizing spray drift.



### IN-Zorb™ ADV

IN-Zorb ADV is an APE-free nonionic surfactant designed to improve the effectiveness of crop protection products by reducing surface tension of spray droplets for uniform spreading and coverage of leaf surfaces.



### IN-Cert™ MSO

IN-Cert MSO is a methylated vegetable oil and surfactant blend formulated to enhance pesticide performance through improved leaf cuticle penetration and uniform droplet coverage of target surfaces.



### IN-Cert™ Organosil MSO

IN-Cert Organosil MSO is a multifunction adjuvant that rapidly penetrates leaf surfaces and provides superior surface coverage compared to ordinary silicone blends, MSO or crop oil.



### IN-Plant™

IN-Plant is a crop oil concentrate adjuvant containing paraffinic oil, emulsifiers and surfactants.



### IN-Plant™ ADV

IN-Plant ADV is a unique hybrid adjuvant that combines the functions of a nonionic surfactant, oil concentrate and penetrant in a single product. It may be used as a replacement for crop oil concentrates and high surfactant oil concentrates.



### Tether™ 24

Tether 24 is a multifunction adjuvant that reduces drift risk and protects 2,4-D, glyphosate and other herbicides from hard water tie-up.



# COTTON

## HERBICIDES



### Willowood Glypho 5

Post emergence, non-selective herbicide offering broad spectrum control of many annual weeds in many agricultural systems and glyphosate-resistant crops. Formulated as a water-soluble liquid. Contains glyphosate, the active ingredient found in Buccaneer® 5 Extra Herbicide.



### Willowood Glypho 6

Post emergence, non-selective herbicide for weed control in many agricultural systems and in glyphosate-resistant crops. Contains glyphosate, potassium salt, the active ingredient found in Roundup PowerMAX® Herbicide.



### Willowood Glufosinate 280SL

Post emergence, non-selective herbicide for post emergence broadcast use on canola, corn, cotton, and soybean designated as LibertyLink® or glufosinate tolerant. Contains glufosinate, the active ingredient in Liberty® Herbicide.



### Fomesafen 1.88 Value Pick

Pre-plant, preemergence or post emergence selective herbicide for control of weeds in soybeans, cotton, dry beans, potatoes and snap beans. Contains fomesafen, the active ingredient in Flexstar® Herbicide.



### Pendimethalin 3.80 Value Pick

Selective herbicide for control of certain broadleaf weeds and annual grasses. Contains pendimethalin, the active ingredient in Prowl® H2O Herbicide.



### Se-Cure EC

Selective herbicide for the control of annual and perennial grasses in many labeled crops. Contains quizalofop-p-ethyl, the active ingredient in Sec-Cure EC Herbicide.



### Willowood Clethodim 2EC

Post emergence herbicide for control of grasses in many labeled row and specialty crops. Contains clethodim, the active ingredient in Select® 2EC Herbicide.



### Engenia®<sup>1</sup>

Preemergence selective herbicide for weed control in Dicamba-tolerant (DT) cotton and Dicamba-tolerant (DT) soybeans.



### Flumioxazin 51% WDG Value Pick

Preemergence herbicide for broad spectrum control of susceptible broadleaf weeds in many labeled row and specialty crops. Contains flumioxazin, the active ingredient in Valor® SX Herbicide.



### Arrest CS

Pre- and post emergence encapsulated herbicide for weed control in field corn, production seed corn, cotton, peanuts, forage or grain sorghum (Milo), soybeans and sugar beets. Contains acetochlor, the active ingredient in Warrant® Herbicide.



### S-metolachlor Value Pick

Pre-plant, preemergence or post emergence herbicide for control of small-seeded broadleaf weeds and grasses in labeled crops, such as corn, cotton and soybeans. Contains s-metolachlor, the active ingredient in Dual II Magnum® Herbicide.

## HERBICIDES CONT'D



### Enlist One®

Pre-plant, preemergence and post emergence herbicide for control of emerged annual and perennial broadleaf weeds in Enlist® corn, soybeans and cotton. Enlist herbicides with Colex-D® technology are the ONLY 2,4-D containing products authorized and specifically labeled for use with Enlist® crops.



### GCS 2,4-D LV 6 Ester

Pre- and post emergence herbicide for control of many broadleaf weeds and brush control in corn, small grains, soybeans (preplant) and other labeled crops. Contains 2,4-D and 2-ethylhexyl ester, the active ingredients found in 2,4-D LV 6 Herbicide.



### Willowood Paraquat 3SL

Defoliant and desiccant herbicide for the control of weeds and grasses and as a harvest aid. Contains paraquat, the active ingredient in Gramaxone® SL Herbicide.



### Sharpen® powered by Kixor® herbicide

Contact burndown and rate-dependent residual preemergence broadleaf weed control in select field and row crops such as corn, cotton, forage grasses, rice, small grains, sorghum, soybean, fallow and postharvest croplands, pasture and other labeled crops.



### Dicamba DMA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, cotton, sorghum, soybean, small grains, pasture, hay, rangeland, farmstead (non-cropland), fallow and other labeled crops. Contains dicamba DMA, the active ingredient in Banvel® Herbicide.

## DESICCANTS, PGR'S, DEFOLIANTS



### Ethephon 6 lb Value Pick

Plant growth regulator for agricultural use on cotton and tobacco. Contains ethephon, the active ingredient in Super Boll®.



### Mepiquat Chloride (0.35) Value Pick

Plant growth regulator for agricultural use in cotton. Contains mepiquat chloride, the active ingredient in Mepex® PGR.



### Thidiazuron 4 Value Pick

Cotton defoliant. Contains thidiazuron, the active ingredient in Klean®-Pik 500 SC.

## FUNGICIDES



### GCS AzoxyProp

Broad spectrum fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin and propiconazole, the active ingredients in Quilt Xcel® Fungicide.



### GCS Azoxy 2SC

Broad spectrum systemic fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin, the active ingredient in Aframe™ Fungicide.

**Willowood Propicon 3.6EC**

Broad spectrum fungicide formulated for the management of many plant diseases in labeled row and specialty crops. Contains propiconazole, the active ingredient in Tilt® Fungicide.

**Willowood Teb 3.6SC**

Fungicide for the control of specified diseases in row and specialty crops such as barley, beans, corn, cotton, peanut, soybean, wheat and other labeled crops. Contains tebuconazole, the same active ingredient in Onset™ 3.6SL Fungicide.

## INSECTICIDES

**Acephate 97.00% Value Pick**

Water-soluble insecticide for use in many labeled agricultural crops. Contains acephate, the active ingredient in Orthene® 97 Insecticide.

**Willowood Lambda-Cy 1EC<sup>1</sup>**

Broad spectrum insecticide for use in many labeled row and specialty crops. Can be applied via ground or air. Restricted Use Pesticide. Contains lambda-cyhalothrin, the active ingredient in Silencer® Insecticide.

**GCS Bifenthrin 2EC<sup>1</sup>**

Broad spectrum insecticide for control of insects and mites in many row and specialty crops, such as canola, corn, cotton, dried beans and peas, fruiting vegetables, grapes, head lettuce, peanuts, soybeans and other labeled crops. Contains bifenthrin, the active ingredient in Bifen 2EC Select™ Insecticide.

**GCS Methoxy 2F**

Selective insecticide for the management of lepidoptera in many labeled crops. Contains methoxyfenozide, the active ingredient in Intrepid 2F® Insecticide.

**Willowood Abamectin 0.7SC<sup>1</sup>**

Insecticide/miticide for control of mites, leafminers, thrips and other labeled insects. Contains abamectin, the active ingredient in Agri-Mek® SC Insecticide.

**Imidacloprid 4.00 Value Pick**

For uses in pest management, control of listed insects that may vector diseases and maintenance of plant health. Contains imidacloprid, the active ingredient in Admire® Pro Systemic Protectant.

## ADJUVANTS

**FieldGrip™ DRA**

FieldGrip DRA is a high-concentrate emulsifiable deposition aid and drift management adjuvant.

**FieldGrip™ VRA**

A VaporGrip® Xtra Agent may be used as an additional tool to reduce volatility potential when tank mixed with dicamba. Use of FieldGrip VRA does not replace an approved drift reduction adjuvant (DRA).

**Even™ 34L**

Even 34L is a liquid ammonium sulfate (AMS) water conditioner designed to reduce the antagonism of spray water impurities that can interfere with the performance of glyphosate, glufosinate and other herbicides.

**Even™ L Pro**

Even L Pro is an optimized premix of drift management agents, deposition aids, AMS and surfactant. It is designed to enhance the performance and activity of pesticide sprays by reducing tie-up of herbicides in hard water, improving spray application coverage and minimizing spray drift.

**Even™ LR**

Even LR is a reduced-rate AMS-replacement adjuvant designed to deliver similar water conditioning activity at lower rates than plain AMS. Even LR can enhance the performance of spray applications by improving spray tank water quality and minimizing hard water interference with herbicide activity.

**Even™ DR**

Even DR is a water soluble blend of reduced rate water conditioning and sequestering agents. It is intended for use with glyphosate and other herbicide spray applications that recommend the use of ammonium sulfate or nitrogen fertilizer as a spray additive. Even DR is a fully soluble spray-grade granule that readily goes into solution.

**IN-Zorb™ ADV**

IN-Zorb ADV is an APE-free nonionic surfactant designed to improve the effectiveness of crop protection products by reducing surface tension of spray droplets for uniform spreading and coverage of leaf surfaces.

**IN-Cert™ MSO**

IN-Cert MSO is a methylated vegetable oil and surfactant blend formulated to enhance pesticide performance through improved leaf cuticle penetration and uniform droplet coverage of target surfaces.

**IN-Cert™ HighSurf MSO**

IN-Cert HighSurf MSO is a specialized blend of modified seed oil and surfactant designed to enhance the performance of herbicides. It may be used at reduced rates compared to conventional MSO. IN-Cert HighSurf MSO may also be used with insecticides, fungicides and PGRs.

**IN-Cert™ Organosil MSO**

IN-Cert Organosil MSO is a multifunction adjuvant that rapidly penetrates leaf surfaces and provides superior surface coverage compared to ordinary silicone blends, MSO or crop oil.

**IN-Plant™**

IN-Plant is a crop oil concentrate adjuvant containing paraffinic oil, emulsifiers and surfactants.

**IN-Plant™ ADV**

IN-Plant ADV is a unique hybrid adjuvant that combines the functions of a nonionic surfactant, oil concentrate and penetrant in a single product. It may be used as a replacement for crop oil concentrates and high surfactant oil concentrates.

**Tether™ 24**

Tether 24 is a multifunction adjuvant that reduces drift risk and protects 2,4-D, glyphosate and other herbicides from hard water tie-up.



# RICE

## HERBICIDES



### Willwood Glypho 5

Post emergence, non-selective herbicide offering broad spectrum control of many annual weeds in many agricultural systems and glyphosate-resistant crops. Formulated as a water-soluble liquid. Contains glyphosate, the active ingredient found in Buccaneer® 5 Extra Herbicide.



### Willwood Glypho 6

Post emergence, non-selective herbicide for weed control in many agricultural systems and in glyphosate-resistant crops. Contains glyphosate, potassium salt, the active ingredient found in Roundup PowerMAX® Herbicide.



### Willwood Clomazone 3ME

Preemergence herbicide for control of annual grasses in dry-seeded rice. Contains Clomazone, the active ingredient in Command® 3ME Herbicide.



### Willwood Propanil EC

Selective post emergence herbicide for control of weeds in rice only labeled Southern states. Contains propanil, the active ingredient in Riceshot® Herbicide.



### Willwood Propanil 4SC

Selective post emergence herbicide for control of weeds in rice only labeled Southern states. Contains propanil, the active ingredient in SuperWHAM!® Herbicide.



### Willwood Thioben 8EC

Residual herbicide for control of labeled weeds in rice (excluding California). Contains thiobencarb, the active ingredient in Abolish® 8EC Herbicide.



### Willwood Thio UltraMax

Residual herbicide for control of labeled weeds in California rice. Contains thiobencarb, the active ingredient in Bolero® UltraMax Herbicide.



### Willwood Thionil EC

Post emergence herbicide for control of broadleaf weeds and grasses in rice. Contains propanil and thiobencarb, the active ingredients in Ricebeaux® Herbicide.



### Quinclorac 4.02 Value Pick

Herbicide for control of weeds in dry-seeded and water-seeded rice. Contains quinclorac, the active ingredient in Facet® L Herbicide.



### Willwood Clethodim 2EC

Post emergence herbicide for control of grasses in many labeled row and specialty crops. Contains clethodim, the active ingredient in Select® 2EC Herbicide.

## HERBICIDES CONT'D



### Pendimethalin 3.80 Value Pick

Selective herbicide for control of certain broadleaf weeds and annual grasses. Contains pendimethalin, the active ingredient in Prowl® H2O Herbicide.



### GCS 2,4-D LV 6 Ester

Pre- and post emergence herbicide for control of many broadleaf weeds and brush control in corn, small grains, soybeans (preplant) and other labeled crops. Contains 2,4-D and 2-ethylhexyl ester, the active ingredients found in 2,4-D LV 6 Herbicide.



### Willwood Paraquat 3SL

Defoliant and desiccant herbicide for the control of weeds and grasses and as a harvest aid. Contains paraquat, the active ingredient in Gramaxone® SL Herbicide.



### Sharpen® powered by Kixor® herbicide

Contact burndown and rate-dependent residual preemergence broadleaf weed control in select field and row crops such as corn, cotton, forage grasses, rice, small grains, sorghum, soybean, fallow and postharvest croplands, pasture and other labeled crops.



### Dicamba DMA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, cotton, sorghum, soybean, small grains, pasture, hay, rangeland, farmstead (non-cropland), fallow and other labeled crops. Contains dicamba DMA, the active ingredient in Banvel® Herbicide.

## FUNGICIDES



### GCS AzoxyProp

Broad spectrum fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin and propiconazole, the active ingredients in Quilt Xcel® Fungicide.



### GCS Azoxy 2SC

Broad spectrum systemic fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin, the active ingredient in Aframe™ Fungicide.



### Willwood Propicon 3.6EC

Broad spectrum fungicide formulated for the management of many plant diseases in labeled row and specialty crops. Contains propiconazole, the active ingredient in Tilt® Fungicide.



## INSECTICIDES



### Willowood Lambda-Cy 1EC<sup>1</sup>

Broad spectrum insecticide for use in many labeled row and specialty crops. Can be applied via ground or air. Restricted Use Pesticide. Contains lambda-cyhalothrin, the active ingredient in Silencer<sup>®</sup> Insecticide.



### IN-Zorb™ ADV

IN-Zorb ADV is an APE-free nonionic surfactant designed to improve the effectiveness of crop protection products by reducing surface tension of spray droplets for uniform spreading and coverage of leaf surfaces.

## ADJUVANTS



### FieldGrip™ DRA

FieldGrip DRA is a high-concentrate emulsifiable deposition aid and drift management adjuvant.



### Even™ 34L

Even 34L is a liquid ammonium sulfate (AMS) water conditioner designed to reduce the antagonism of spray water impurities that can interfere with the performance of glyphosate, glufosinate and other herbicides.



### Even™ LR

Even LR is a reduced-rate AMS-replacement adjuvant designed to deliver similar water conditioning activity at lower rates than plain AMS. Even LR can enhance the performance of spray applications by improving spray tank water quality and minimizing hard water interference with herbicide activity.



### Even™ DR

Even DR is a water soluble blend of reduced rate water conditioning and sequestering agents. It is intended for use with glyphosate and other herbicide spray applications that recommend the use of ammonium sulfate or nitrogen fertilizer as a spray additive. Even DR is a fully soluble spray-grade granule that readily goes into solution.



### Even™ L Pro

Even L Pro is an optimized premix of drift management agents, deposition aids, AMS and surfactant. It is designed to enhance the performance and activity of pesticide sprays by reducing tie-up of herbicides in hard water, improving spray application coverage and minimizing spray drift.



### IN-Cert™ MSO

IN-Cert MSO is a methylated vegetable oil and surfactant blend formulated to enhance pesticide performance through improved leaf cuticle penetration and uniform droplet coverage of target surfaces.



### IN-Cert™ HighSurf MSO

IN-Cert HighSurf MSO is a specialized blend of modified seed oil and surfactant designed to enhance the performance of herbicides. It may be used at reduced rates compared to conventional MSO. IN-Cert HighSurf MSO may also be used with insecticides, fungicides and PGRs.



### IN-Cert™ Organosil MSO

IN-Cert Organosil MSO is a multifunction adjuvant that rapidly penetrates leaf surfaces and provides superior surface coverage compared to ordinary silicone blends, MSO or crop oil.



### IN-Plant™

IN-Plant is a crop oil concentrate adjuvant containing paraffinic oil, emulsifiers and surfactants.



### IN-Plant™ ADV

In-Plant ADV is a unique hybrid adjuvant that combines the functions of a nonionic surfactant, oil concentrate and penetrant in a single product. It may be used as a replacement for crop oil concentrates and high surfactant oil concentrates.



### Tether™ 24

Tether 24 is a multifunction adjuvant that reduces drift risk and protects 2,4-D, glyphosate and other herbicides from hard water tie-up.



# SOYBEAN

## HERBICIDES



### Willwood Glypho 5

Post emergence, non-selective herbicide offering broad spectrum control of many annual weeds in many agricultural systems and glyphosate-resistant crops. Formulated as a water-soluble liquid. Contains glyphosate, the active ingredient found in Buccaneer® 5 Extra Herbicide.



### Willwood Glypho 6

Post emergence, non-selective herbicide for weed control in many agricultural systems and in glyphosate-resistant crops. Contains glyphosate, potassium salt, the active ingredient found in Roundup PowerMAX® Herbicide.



### Willwood Glufosinate 280SL

Post emergence, non-selective herbicide for post emergence broadcast use on canola, corn, cotton and soybean designated as LibertyLink® or glufosinate tolerant. Contains glufosinate, the active ingredient in Liberty® Herbicide.



### Willwood Sulfen 4SC

Preemergence, soil-applied selective herbicide that controls specific grasses, sedges and broadleaf weeds with residual activity. Contains sulfentrazone, the active ingredient in Spartan® 4F Herbicide brands.



### Willwood Sulfen Cloran

Sulfentrazone (62.10%)  
Preemergence herbicide for broad spectrum control of weeds and grasses in soybeans only. Contains sulfentrazone and cloransulam-methyl, the active ingredients in Authority® First DF Herbicide.



### Flumioxazin 51% WDG Value Pick

Preemergence herbicide for broad spectrum control of susceptible broadleaf weeds in many labeled row and specialty crops. Contains flumioxazin, the active ingredient in Valor® SX Herbicide.



### Enlist One®

Pre-plant, preemergence and post emergence herbicide for control of emerged annual and perennial broadleaf weeds in Enlist® corn, soybeans and cotton. Enlist herbicides with Colex-D® technology are the ONLY 2,4-D containing products authorized and specifically labeled for use with Enlist® crops.



### Engenia®<sup>1</sup>

Preemergence selective herbicide for weed control in Dicamba-tolerant (DT) cotton and Dicamba-tolerant (DT) soybeans.



### Willwood Clethodim 2EC

Post emergence herbicide for control of grasses in many labeled row and specialty crops. Contains clethodim, the active ingredient in Select® 2EC Herbicide.



### GCS Metola Plus 8EC

Pre- and post emergence herbicide for control of broadleaf weeds and annual grasses in herbicide for use in corn, cotton, peanuts, soybeans and other labeled crops. Contains metolachlor, the active ingredient in Stalwart® C Herbicide.

## HERBICIDES CONT'D



### Willwood Metribuzin 75DF

Broad spectrum herbicide for control of certain grasses and broadleaf weeds as a stand-alone or tank-mix partner with other herbicides to add an additional mode of action. Contains metribuzin, the active ingredient found in Sencor® Herbicide.



### S-Metolachlor Value Pick

Pre-plant, preemergence or post emergence herbicide for control of small-seeded broadleaf weeds and grasses in labeled crops, such as corn, cotton and soybeans. Contains s-metolachlor, the active ingredient in Dual II Magnum® Herbicide.



### Pendimethalin 3.80 Value Pick

Selective herbicide for control of certain broadleaf weeds and annual grasses. Contains pendimethalin, the active ingredient in Prowl® Herbicide.



### Willwood Sulfen Met DF

Pre-plant and preemergence selective herbicide for control of broadleaf weeds, sedges and suppression of labeled grasses in soybeans and other labeled crops. Contains sulfentrazone and metribuzin, the active ingredients in Authority® MTZ Herbicide.



### Fomesafen 1.88 Value Pick

Pre-plant, preemergence or post emergence selective herbicide for control of weeds in soybeans, cotton, dry beans, potatoes and snap beans. Contains fomesafen, the active ingredient in Flexstar® Herbicide.



### GCS 2,4-D LV 6 Ester

Pre- and post emergence herbicide for control of many broadleaf weeds and brush control in corn, small grains, soybeans (preplant) and other labeled crops. Contains 2,4-D and 2-ethylhexyl ester, the active ingredients found in 2,4-D LV 6 Herbicide.



### Willwood Paraquat 3SL<sup>1</sup>

Defoliant and desiccant herbicide for the control of weeds and grasses and as a harvest aid. Contains paraquat, the active ingredient in Gramaxone® SL Herbicide.



### Sharpen® powered by Kixor® herbicide

Contact burndown and rate-dependent residual preemergence broadleaf weed control in select field and row crops such as corn, cotton, forage grasses, rice, small grains, sorghum, soybean, fallow and postharvest croplands, pasture and other labeled crops.



### Dicamba DMA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, cotton, sorghum, soybean, small grains, pasture, hay, rangeland, farmstead (non-cropland), fallow and other labeled crops. Contains dicamba DMA, the active ingredient in Banvel® Herbicide.

## FUNGICIDES



### GCS AzoxyProp

Broad spectrum fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin and propiconazole, the active ingredients in Quilt Xcel® Fungicide.



### GCS Azoxy 2SC

Broad spectrum systemic fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin, the active ingredient in Aframe™ Fungicide.



### Willowood Propicon 3.6EC

Broad spectrum fungicide formulated for the management of many plant diseases in labeled row and specialty crops. Contains propiconazole, the active ingredient in Tilt® Fungicide.



### Willowood Teb 3.6SC

Fungicide for the control of specified diseases in row and specialty crops such as barley, beans, corn, cotton, peanut, soybean, wheat and other labeled crops. Contains tebuconazole, the same active ingredient in Onset™ 3.6SL Fungicide.

## INSECTICIDES



### Willowood Lambda-Cy 1EC<sup>1</sup>

Broad spectrum insecticide for use in many labeled row and specialty crops. Can be applied via ground or air. Restricted Use Pesticide. Contains lambda-cyhalothrin, the active ingredient in Silencer® Insecticide.



### GCS Bifenthrin 2EC<sup>1</sup>

Broad spectrum insecticide for control of insects and mites in many row and specialty crops, such as canola, corn, cotton, dried beans and peas, fruiting vegetables, grapes, head lettuce, peanuts, soybeans and other labeled crops. Contains bifenthrin, the active ingredient in Bifen 2EC Select™ Insecticide.



### Imidacloprid 4.00 Value Pick

For uses in pest management, control of listed insects that may vector diseases and maintenance of plant health. Contains imidacloprid, the active ingredient in Admire® Pro Systemic Protectant.

## ADJUVANTS



### FieldGrip™ DRA

FieldGrip DRA is a high-concentrate emulsifiable deposition aid and drift management adjuvant.



### FieldGrip™ VRA

A VaporGrip® Xtra Agent may be used as an additional tool to reduce volatility potential when tank mixed with dicamba. Use of FieldGrip VRA does not replace an approved drift reduction adjuvant (DRA).



### Even™ 34L

Even 34L is a liquid ammonium sulfate (AMS) water conditioner designed to reduce the antagonism of spray water impurities that can interfere with the performance of glyphosate, glufosinate and other herbicides.

## ADJUVANTS CONT'D



### Even™ L Pro

Even L Pro is an optimized premix of drift management agents, deposition aids, AMS and surfactant. It is designed to enhance the performance and activity of pesticide sprays by reducing tie-up of herbicides in hard water, improving spray application coverage and minimizing spray drift.



### Even™ LR

Even LR is a reduced-rate AMS-replacement adjuvant designed to deliver similar water conditioning activity at lower rates than plain AMS. Even LR can enhance the performance of spray applications by improving spray tank water quality and minimizing hard water interference with herbicide activity.



### Even™ DR

Even DR is a water soluble blend of reduced rate water conditioning and sequestering agents. It is intended for use with glyphosate and other herbicide spray applications that recommend the use of ammonium sulfate or nitrogen fertilizer as a spray additive. Even DR is a fully soluble spray-grade granule that readily goes into solution.



### IN-Zorb™ ADV

IN-Zorb ADV is an APE-free nonionic surfactant designed to improve the effectiveness of crop protection products by reducing surface tension of spray droplets for uniform spreading and coverage of leaf surfaces.



### IN-Cert™ MSO

IN-Cert MSO is a methylated vegetable oil and surfactant blend formulated to enhance pesticide performance through improved leaf cuticle penetration and uniform droplet coverage of target surfaces.



### IN-Cert™ HighSurf MSO

IN-Cert HighSurf MSO is a specialized blend of modified seed oil and surfactant designed to enhance the performance of herbicides. It may be used at reduced rates compared to conventional MSO. IN-Cert HighSurf MSO may also be used with insecticides, fungicides and PGRs.



### IN-Cert™ Organosil MSO

IN-Cert Organosil MSO is a multifunction adjuvant that rapidly penetrates leaf surfaces and provides superior surface coverage compared to ordinary silicone blends, MSO or crop oil.



### IN-Plant™

IN-Plant is a crop oil concentrate adjuvant containing paraffinic oil, emulsifiers and surfactants.



### IN-Plant™ ADV

IN-Plant ADV is a unique hybrid adjuvant that combines the functions of a nonionic surfactant, oil concentrate and penetrant in a single product. It may be used as a replacement for crop oil concentrates and high surfactant oil concentrates.



### Tether™ DC

Tether DC is a multifunction adjuvant designed to protect the performance of dicamba-based herbicides from hard water tie-up and to reduce the risk of drift.



### Tether™ 24

Tether 24 is a multifunction adjuvant that reduces drift risk and protects 2,4-D, glyphosate and other herbicides from hard water tie-up.



# WHEAT

## HERBICIDES



### Willowood Glypho 5

Post emergence, non-selective herbicide offering broad spectrum control of many annual weeds in many agricultural systems and glyphosate-resistant crops. Formulated as a water-soluble liquid. Contains glyphosate, the active ingredient found in Buccaneer® 5 Extra Herbicide.



### Willowood Glypho 6

Post emergence, non-selective herbicide for weed control in many agricultural systems and in glyphosate-resistant crops. Contains glyphosate, potassium salt, the active ingredient found in Roundup PowerMAX® Herbicide.



### Fancy

Selective post emergence control of annual and perennial broadleaf weeds and woody brush. Contains fluroxypyr.



### Clopyralid .75 + Fluroxypyr .75 Value Pick

Post emergence herbicide for control of annual and perennial broadleaf weeds in barley and oats not under-seeded with a legume, corn, wheat, grasses grown for seed and other labeled crops. Contains clopyralid and fluroxypyr, the active ingredients in WideMatch® Herbicide.



### Agri Star® Ozone 3.0

Post emergence herbicide for the control of wild oat, green foxtail and other grass and broadleaf weeds in spring and winter wheat. Contains flurcarbazono-sodium.



### Alligare MSM 60

Water dispersible granule for control of annual and perennial weeds.



### Carfentrazone Value Pick

Selective post emergence herbicide for broadleaf weed control. Contains carfentrazone, the active ingredient in Aim® EC herbicide.



### Flumioxazin 51% WDG Value Pick

Preemergence herbicide for broad spectrum control of susceptible broadleaf weeds in many labeled row and specialty crops. Contains flumioxazin, the active ingredient in Valor® SX Herbicide.



### Willowood Metribuzin 75DF

Broad spectrum herbicide for control of certain grasses and broadleaf weeds as a stand-alone or tank-mix partner with other herbicides to add an additional mode of action. Contains metribuzin, the active ingredient found in Sencor® 4 Flowable Herbicide.

## HERBICIDES CONT'D



### GCS 2,4-D LV 6 Ester

Pre- and post emergence herbicide for control of many broadleaf weeds and brush control in corn, small grains, soybeans (preplant) and other labeled crops. Contains 2,4-D and 2-ethylhexyl ester, the active ingredients found in 2,4-D LV 6 Herbicide.



### Willowood Paraquat 3SL<sup>1</sup>

Defoliant and desiccant herbicide for the control of weeds and grasses and as a harvest aid. Contains paraquat, the active ingredient in Gramaxone® SL Herbicide.



### Sharpen® powered by Kixor® herbicide

Contact burndown and rate-dependent residual preemergence broadleaf weed control in select field and row crops such as corn, cotton, forage grasses, rice, small grains, sorghum, soybean, fallow and postharvest croplands, pasture and other labeled crops.



### Dicamba DMA 4 Value Pick

Pre- and post emergence herbicide for weed control in corn, cotton, sorghum, soybean, small grains, pasture, hay, rangeland, farmstead (non-cropland), fallow and other labeled crops. Contains dicamba DMA, the active ingredient in Banvel® Herbicide.

## FUNGICIDES



### GCS AzoxyProp

Broad spectrum fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin and propiconazole, the active ingredients in Quilt Xcel® Fungicide.



### GCS Azoxy 2SC

Broad spectrum systemic fungicide for management of many plant diseases in labeled row and specialty crops. Contains azoxystrobin, the active ingredient in Aframe™ Fungicide.



### Willowood Propicon 3.6EC

Broad spectrum fungicide formulated for the management of many plant diseases in labeled row and specialty crops. Contains propiconazole, the active ingredient in Tilt® Fungicide.



### Willowood Teb 3.6SC

Fungicide for the control of specified diseases in row and specialty crops such as barley, beans, corn, cotton, peanut, soybean, wheat and other labeled crops. Contains tebuconazole, the same active ingredient in Onset™ 3.6SL Fungicide.

## INSECTICIDES



### Willowood Lambda-Cy 1EC<sup>1</sup>

Broad spectrum insecticide for use in many labeled row and specialty crops. Can be applied via ground or air. Restricted Use Pesticide. Contains lambda-cyhalothrin, the active ingredient in Silencer® Insecticide.



### GCS Bifenthrin 2EC<sup>1</sup>

Broad spectrum insecticide for control of insects and mites in many row and specialty crops, such as canola, corn, cotton, dried beans and peas, fruiting vegetables, grapes, head lettuce, peanuts, soybeans and other labeled crops. Contains bifenthrin, the active ingredient in Bifen 2EC Select™ Insecticide.

## ADJUVANTS



### FieldGrip™ DRA

FieldGrip DRA is a high-concentrate emulsifiable deposition aid and drift management adjuvant.



### FieldGrip™ VRA

A VaporGrip® Xtra Agent may be used as an additional tool to reduce volatility potential when tank mixed with dicamba. Use of FieldGrip VRA does not replace an approved drift reduction adjuvant (DRA).



### Even™ 34L

Even 34L is a liquid ammonium sulfate (AMS) water conditioner designed to reduce the antagonism of spray water impurities that can interfere with the performance of glyphosate, glufosinate and other herbicides.



### Even™ LR

Even LR is a reduced-rate AMS-replacement adjuvant designed to deliver similar water conditioning activity at lower rates than plain AMS. Even LR can enhance the performance of spray applications by improving spray tank water quality and minimizing hard water interference with herbicide activity.



### Even™ DR

Even DR is a water soluble blend of reduced rate water conditioning and sequestering agents. It is intended for use with glyphosate and other herbicide spray applications that recommend the use of ammonium sulfate or nitrogen fertilizer as a spray additive. Even DR is a fully soluble spray-grade granule that readily goes into solution.

## ADJUVANTS CONT'D



### Even™ L Pro

Even L Pro is an optimized premix of drift management agents, deposition aids, AMS and surfactant. It is designed to enhance the performance and activity of pesticide sprays by reducing tie-up of herbicides in hard water, improving spray application coverage and minimizing spray drift.



### IN-Zorb™ ADV

IN-Zorb ADV is an APE-free nonionic surfactant designed to improve the effectiveness of crop protection products by reducing surface tension of spray droplets for uniform spreading and coverage of leaf surfaces.



### IN-Cert™ MSO

IN-Cert MSO is a methylated vegetable oil and surfactant blend formulated to enhance pesticide performance through improved leaf cuticle penetration and uniform droplet coverage of target surfaces.



### IN-Cert™ HighSurf MSO

IN-Cert HighSurf MSO is a specialized blend of modified seed oil and surfactant designed to enhance the performance of herbicides. It may be used at reduced rates compared to conventional MSO. IN-Cert HighSurf MSO may also be used with insecticides, fungicides and PGRs.



### IN-Cert™ Organosil MSO

IN-Cert Organosil MSO is a multifunction adjuvant that rapidly penetrates leaf surfaces and provides superior surface coverage compared to ordinary silicone blends, MSO or crop oil.



### IN-Plant™

IN-Plant is a crop oil concentrate adjuvant containing paraffinic oil, emulsifiers and surfactants.



### IN-Plant™ ADV

IN-Plant ADV is a unique hybrid adjuvant that combines the functions of a nonionic surfactant, oil concentrate and penetrant in a single product. It may be used as a replacement for crop oil concentrates and high surfactant oil concentrates.



### Tether™ 24

Tether 24 is a multifunction adjuvant that reduces drift risk and protects 2,4-D, glyphosate and other herbicides from hard water tie-up.

# ROW CROP ADJUVANT: CROP PROTECTION PAIRING

FARMERS FIRST™



PRODUCT	MIX	APPLY	PERFORM	ALL-IN-ONE
Willowood Glypho 5 (ISO Salt)	Even™ LR OR Even™ DR	FieldGrip™ DRA	IN-Zorb™ ADV (NIS)	Even™ L Pro OR Tether™ 24
Willowood Glypho 6 (K-Salt)	Even™ LR OR Even™ DR	FieldGrip™ DRA	IN-Zorb™ ADV (NIS)	Even™ L Pro OR Tether™ 24
2,4-D LV6				Tether™ 24
Willowood Glufosinate 280SL	Dry AMS	FieldGrip™ DRA	IN-Zorb™ 90 (NIS) *Burndown Only	
Enlist One®				Tether™ 24
Willowood Clethodim 2EC		FieldGrip™ DRA	IN-Plant™ (COC) OR IN-Cert™ HighSurf MSO	
Atrazine 4L			IN-Plant™ (COC) OR IN-Zorb™ ADV (NIS)	
Dicamba DMA		FieldGrip™ DRA	IN-Zorb™ 90 (NIS)	Tether™ 24
Engenia®				Tether™ DC AND FieldGrip™ VRA
Willowood Paraquat 3SL		FieldGrip™ DRA	IN-Plant™ (COC) OR IN-Zorb™ 90 (NIS)	
Flumioxazin 51% WDG	Even™ LR OR Even™ DR	FieldGrip™ DRA	IN-Cert™ MSO	
Satellite® HydroCap		FieldGrip™ DRA	IN-Plant™ ADV	
Willowood Propanil 4SC		FieldGrip™ DRA	IN-Plant™	
Sharpen®	Even™ 34L		IN-Cert™ MSO	
Status®	Even™ LR OR Even™ DR	FieldGrip™ DRA	IN-Zorb™ 90 (NIS)	Even™ L Pro OR Tether™ DC
Willowood Sulfen 4SC		FieldGrip™ DRA	IN-Zorb™ ADV	
GCS Metola Plus 8EC		FieldGrip™ DRA		
Fungicides		FieldGrip™ DRA	IN-Cert™ Organosil MSO IN-Zorb™ ADV (NIS)	
Insecticides		FieldGrip™ DRA	IN-Cert™ Organosil MSO IN-Zorb™ ADV (NIS)	

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# FARMERS FIRST ADJUVANTS: COMPETITIVE PRODUCT CHART

FARMERS FIRST	HELENA	LOVELAND	WINFIELD	WILBUR-ELLIS	SIMPLOT	CHS
IN-Zorb™ ADV	Induce®	Liberate®	Permeate®	R-11®	Voyager®	Prefer™ 90
IN-Zorb™ 90	AdSpray™ 90	Activator 90	Chemsurf 90®	Embrece - EA®		White Water NIS™
IN-Plant™	Agri-Dex®	Herbimax®	Prime Oil®	Mor-Act®	Navigator™	Crop Oil
IN-Plant™ ADV	Cide Winder®				Verifact®	Cerium® Elite
IN-Cert™ MSO	Zaar®	MSO® Concentrate		Hasten - EA®	Invade™	Upland™ MSO
IN-Cert™ HighSurf MSO			Destiny® HC	Super Spread® MSO	Invade™ HC	Savvy™
IN-Cert™ Organosil MSO	Dyne-Amic®	Phase®	Airforce®	Syl-Tac-Ea®	Invade™ RST	
FieldGrip™ DRA	Strike Zone® LC	Reign®	Interlock®	In-Place®	Velomax® DRT	Petrichor®
FieldGrip™ VRA	Verified™	Delta Lock™	Valcheck® II			Suralta™
Tether™ DC	Oculus® Maxx	Delta Force™	Optify® XX	Serenity® Cubed		Veracity® Elite
Tether™ 24	Oculus® Maxx	Strike Force®	Optify® D30	Cayuse® Plus		Veracity® Elite
Even™ L Pro	Accuquest®		Amsurf Xtra	Bronc Triple®	Quintain® Xtra 8L	Adium™
Even™ LR	ReQuest®	Choice® Trio			Vixen® AC-L	Trott™
Even™ DR				Cut® Rate	Vixen® D	



FARMERS FIRST™



# FARMERS FIRST™



## BURNDOWN/ PRE-PLANT HERBICIDE



ADD TO TANK MIX

**NUTRIENT AVAILABILITY  
& RESIDUE BREAKDOWN**



## AT-PLANTING FERTILIZERS



REPLACE STARTER

**HIGH UPTAKE  
PHOS STARTER**



ADD TO STARTER

**IMPROVE NUTRIENT  
STORAGE & DELIVERY**



## LIVE MICROBE ADD-ONS Add to Starter Fertilizers



ADD IN LOW NITROGEN  
ENVIRONMENT

**NITROGEN  
FIXATION**




ADD IN LOW PHOS  
ENVIRONMENT

**ROOTING + NUTRIENT  
& WATER UPTAKE**


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# FARMERS FIRST CROP NUTRITION



**SIDEDRESS/ Y-DROP  
FERTILIZER**



**ADD TO SIDEDRESS UAN**

**NUTRIENT UPTAKE  
& STORAGE**



**IN-CROP  
PESTICIDE**



**HERBICIDE & WEATHER  
STRESS MITIGATION**

**STRESS MITIGATION  
& PLANT HEALTH**



**EFFICIENT FOLIAR  
NUTRITION**

**EFFICIENT NPK +  
MICRONUTRIENTS**

The Farmers First line of crop nutrition products offers you solutions that fit your crops needs and current farming practices.



*Any product recommendations are for informational purposes only and should not be used as a replacement for consulting the applicable product label or independently determining the appropriate product offerings and quantities for your operation.*

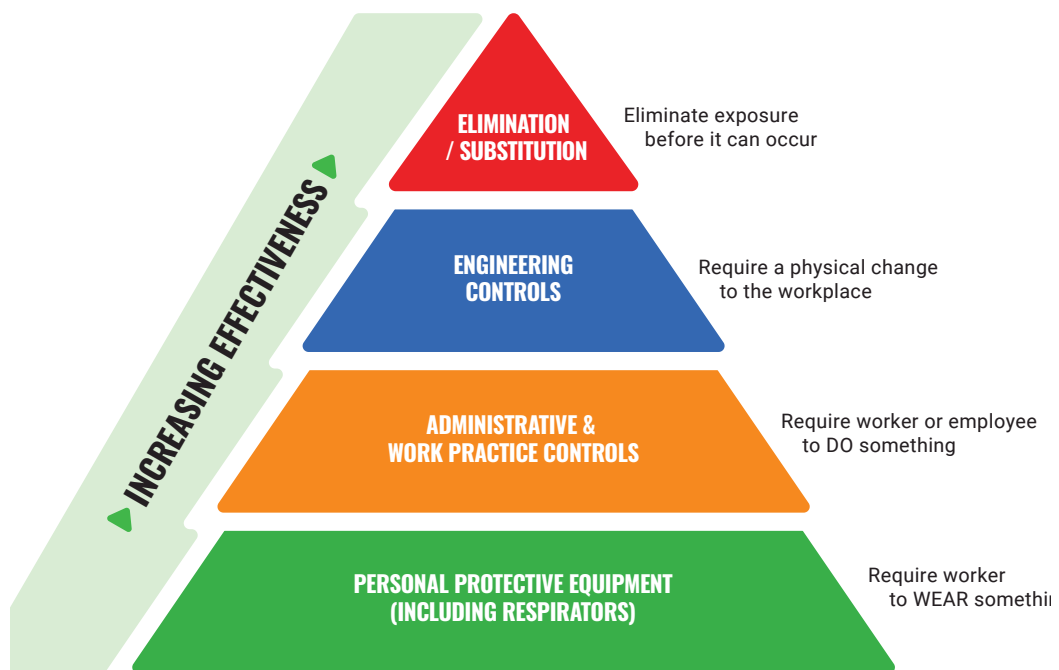


# CONTROLLING WORKPLACE HAZARDS

There are risks included with using herbicides and other chemicals. Applicators should always read the label which provides information on the proper application methods and other safety details.

Controlling exposures to chemical hazards and toxic substances is the fundamental method of protecting workers. A hierarchy of controls is used as a means of determining how to implement feasible and effective controls.

Engineering and work practice controls must be the primary way to reduce employee exposure to toxic chemicals. Respiratory protection is required to be used when engineering or work practice controls are infeasible or while they are being implemented.



To learn more about our crop protection products, or to talk to an *FBN* representative, call **844-4-INPUTS** or visit **FBN.com** today.

Where possible, elimination or substitution is the most desirable followed by engineering controls. Administrative or work practice controls may be appropriate in some cases where engineering controls cannot be implemented or when different procedures are needed after implementation of the new engineering controls. Personal protection equipment is the least desirable but may still be effective.

TYPE OF CONTROL	EXAMPLES
<p><b>Elimination/Substitution</b></p>	<p>Substitute with safer alternatives through a work plan, like the 7-Step Work Plan.</p> <ol style="list-style-type: none"> <li>1. Identify chemical</li> <li>2. Set a reduction goal</li> <li>3. Track achievements by date</li> <li>4. List action steps</li> <li>5. Develop timeline</li> <li>6. Set metrics</li> <li>7. Identify assessment tool used</li> </ol>
<p><b>Engineering Controls</b> (implement physical change to the workplace which eliminates/reduces the hazard on the job/task)</p>	<ul style="list-style-type: none"> <li>• Change process to minimize contact with hazardous chemicals.</li> <li>• Isolate or enclose the process.</li> <li>• Use of wet methods to reduce generation of dusts or other particulates.</li> <li>• General dilution ventilation.</li> <li>• Use fume hoods.</li> </ul>
<p><b>Administrative and Work Practice Controls</b> (establish efficient processes or procedures)</p>	<ul style="list-style-type: none"> <li>• Rotate job assignments.</li> <li>• Adjust work schedules so that workers are not overexposed to a hazardous chemical.</li> </ul>
<p><b>Personal Protective Equipment</b> (use protection to reduce exposure to risk factors)</p>	<ul style="list-style-type: none"> <li>• Use chemical protective clothing.</li> <li>• Wear respiratory protection. [See the Respiratory Protection Safety and Health Topics page]</li> <li>• Use gloves.</li> <li>• Wear eye protection.</li> </ul>

# MIXING ORDER MATTERS

For herbicide applications mixed with water, remember the WALES acronym regarding mixing order. Begin by filling the spray tank with about half of the water required for the total spray job, and begin agitation.

**W**

Add **WETTABLE POWDERS** and **WATER DISPERSIBLE GRANULES**.

**A**

Continue **AGITATION** to fully suspend material between additions.

**L**

Add **LIQUID** flowable and suspension concentrated herbicides.

**E**

Add **EMULSIFIABLE** concentrates next.

**S**

Finally, add **SURFACTANTS**, followed by any adjuvants and drift control agents.

Finally, add water to the required levels and continue agitation so that the tank mix is ready for spraying. ***Always remember to read and follow label instructions.***



To learn more about our crop protection products, or to talk to an FBN representative, call **844-4-INPUTS** or visit **FBN.com** today.

<sup>1</sup>RESTRICTED USE PESTICIDE Due to acute toxicity. For retail sale to and use by certified applicators only – NOT to be used by uncertified persons working under the supervision of a certified applicator.

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Qualified farmers who apply and accept\* the terms of an Operating Line of Credit through FBN Finance of \$100,000 to \$1,000,000 and payoff the balance in full by March 10, 2025 are eligible to receive a promotional interest rate of 3.99% when using the Operating Line of Credit to finance purchases of input products made through FBN between September 1, 2023 - November 21, 2023. Qualifying input products include crop protection, adjuvant, crop nutrition, seed, animal health and livestock feed. Advances on the FBN Finance Operating Line that are not for the purchase of input products from FBN will be charged interest at the stated (non-promotional) contract rate in the Operating Line of Credit loan agreement.\*

Approved farmers who apply for and accept the terms of an FBN Finance Operating Line and make a minimum \$50,000 purchase of any input categories or \$10,000 of animal health or livestock feed products only from FBN by November 21, 2023 will receive the benefit of automatic qualification for a promotional rate lock from FBN Finance. The rate lock offers qualified farmers a promotional rate from 3.99% interest, based on the timing of qualification, on future purchases of input products only made through FBN by August 31, 2024.

Payments for all amounts owed under the associated FBN Finance Operating Line of Credit are due March 1, 2025. If the total balance for all amounts owed is not paid in full by March 10, 2025, interest charges on all purchases of input products made through FBN between September 1, 2023 - August 31, 2024, using an Operating Line of Credit through FBN Finance will be imposed from the purchase date at the stated (non-promotional) contract rate in the Operating Line of Credit loan agreement.

\*Borrower will have seven (7) days from date of acceptance to sign loan notes and for loans greater than \$500,000, thirty (30) days to fulfill all conditions outlined in the loan note.

For purchases using FBN Finance input line of credit (not an FBN Finance Operating Line), qualified farmers must purchase within promotional period (September 1 - November 21, 2023) to receive the 5.99% promotional rate. Payment in full must be made by January 1, 2025; default interest rate charges apply. After January 1, 2025, the interest rate will be subject to the prime rate as reported in the Wall Street Journal plus 2.50%. On the first day of each month the interest rate shall be adjusted by adding a margin of 2.50% to the current prime rate.

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# FARM NOTES

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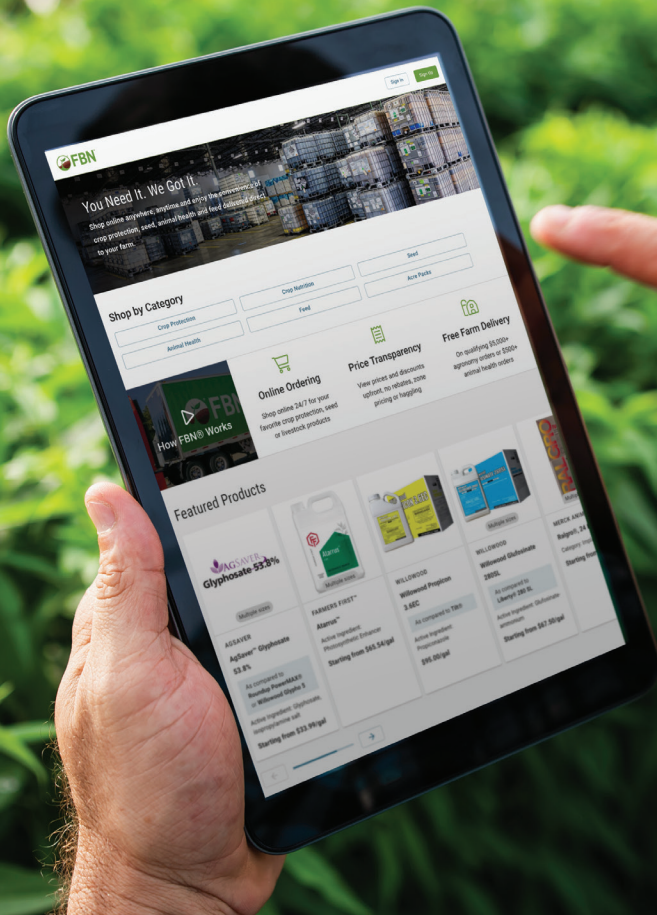
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