



CORVUS[®]

ONE PASS. ZERO DOUBTS.

CORVUS[®] PRE-EMERGENCE CORN HERBICIDE DELIVERS CONSISTENT ONE-PASS GRASS AND BROADLEAF WEED CONTROL ALL SEASON LONG.

CORVUS IN BRIEF

- Corvus[®] herbicide delivers consistent broad-spectrum control of grass and broadleaf weeds for a full season at just 5.6 fl oz/A.
- A full rate of Corvus consistently delivers rapid burndown, long-lasting residual and reactivation for dependable weed control in field corn, seed corn, corn grown for silage and fallow.
- With its two modes of action, Corvus controls more than 65 weeds, including those resistant to glyphosate-, ALS-, PPO- and triazine-based herbicides, such as Palmer amaranth and waterhemp. Corvus also controls tough grasses, such as woolly cupgrass, yellow foxtail and fall panicum.
- Corvus goes to work quickly and controls weeds through canopy closure, whether conditions turn wet or even hot and dry. Just a half inch of rain reactivates Corvus and boosts its weed control properties.
- Corvus can be applied at ounces per acre vs. pints or quarts per acre required by other herbicides. Its extremely low use rate means growers face less shipping, storage and handling, and fewer jugs.
- The addition of atrazine will enhance and extend the weed control of Corvus herbicide.
- Corvus translocates through the roots and shoots of weeds to provide rapid burndown and long-lasting residual control, making it perfect for no-till and minimum-till programs.

CROP SAFETY INNOVATION

- Corvus includes highly active Crop Safety Innovation (CSI™) Safener technology that has both soil and foliar uptake. Because the safener is active in both pre- and early-post applications, Corvus can be used on any soil for greater crop compatibility and can be applied from burndown through the V2 growth stage.
- CSI Safener enables corn plants to better withstand herbicidal activity, which can lead to increased root growth and plant health.



Corvus provides season-long weed control, as shown in this treated vs. untreated check.



Bayer CropScience



MODES OF ACTION

Corvus combines the strength of two modes of action to take down weeds.

The first, commonly known as a bleacher, inhibits the 4-hydroxyphenylpyruvate dioxygenase (HPPD) enzyme, which is key to the production of pigments and development of chloroplasts in plant tissues. By inhibiting pigment and chloroplast biosyntheses, emerging plant tissue is bleached from green to white or pale yellow and ultimately dies. These symptoms often appear after a half inch or more of rain on weeds that emerge during a dry period following planting.

The second mode of action is the inhibition of the acetolactate synthase enzyme, which results in the inability of weeds to produce three essential branched-chain amino acids. Lack of amino acids prevents the production of the plant proteins required for normal growth and development, which ultimately results in weed death.

EXCELLENT RESISTANCE MANAGEMENT TOOL

Corvus is a valuable tool to help growers manage tough weeds, such as Palmer amaranth, marestail, common ragweed, lambsquarters and waterhemp. By integrating Corvus into their herbicide program, growers can more effectively manage glyphosate-, ALS-, PPO- and triazine-resistant or tolerant weed populations, and preserve the viability of other herbicides.

FLEXIBLE CROP ROTATION

Corvus is compatible with many cropping systems and enables growers to readily rotate from corn to other key crops with little or no delay. See the Flexible Crop Rotation chart below. Growers who use Corvus can plant wheat after a 4-month rotational interval and soybeans after a 9-month interval. Dry beans and sugarbeets require a 17-month rotational interval.

FLEXIBLE CROP ROTATION*

Rotational Interval (elapsed time)	Crop	Minimum Precipitation Requirement ¹
0 Months ²	Field Corn	None
4 Months ²	Cereal Rye, Triticale, Wheat	None
9 Months ²	Barley, Soybeans, Sweet Corn ³ , Popcorn ³	15 inches of cumulative precipitation from application to planting of rotational crop
10 Months	Rice, Cotton	15 inches of cumulative precipitation from application to planting of rotational crop
11 Months	Peanuts	15 inches of cumulative precipitation from application to planting of rotational crop
17 Months ³	Alfalfa, Green and Dry Beans, Oats, Sorghum ⁴ , Sunflower, Canola, Potato, Sugarbeets and all other crops	30 inches of cumulative precipitation from application to planting of rotational crop

¹The amount of cumulative precipitation required before planting a rotational crop is in addition to the required rotational interval given in months. Furrow or flood irrigation should not be included in total. No more than 7 inches of overhead irrigation should be included in total.

²Crop varieties planted back at intervals of one year or less should not have known acute sensitivity to ALS-inhibiting and/or SU herbicides.

³When soil pH is 7.5 or above, crop plantback should be delayed to the next interval, and to 24 months for crops listed in the 17-month interval above.

⁴When Corvus is used at 2.25 fl oz/A or less and the total of thien carbazono-methyl from all sources is 0.014 lb AI/A or less, sorghum can be planted at the 9-month or more interval.

SEASON-LONG CONTROL



Results of a burndown treatment of Corvus at 5.6 fl oz/A + 1.5 lb AI/A atrazine + 1 qt/A COC in this no-till Northwest Ohio corn field.



Labeled rate of Corvus at 5.6 fl oz/A with 1.5 lb AI/A of atrazine near Waverly, Neb.



Corvus applied pre-emergence at 5.6 fl oz/A controlled weeds all season long in this Oakland, Iowa, test plot.



WEED CONTROL*

Broadleaf Weeds Controlled	Corvus + atrazine	Lumax®/Lexar®
Amaranth, Palmer		
Chickweed, common		
Cocklebur		
Jimsonweed		
Kochia		
Lambsquarters, common		
Marestail		
Morningglory spp.		
Nightshade, eastern black		
Pigweed, redroot, smooth		
Ragweed, common		
Ragweed, giant		
Smartweed, Pennsylvania		
Sunflower		
Velvetleaf		
Waterhemp, common		

Partial list of weeds labeled for control by Corvus; see label for the complete list. Weed control ratings using products at labeled rates applied either preplant or pre-emergence.

Grass Weeds Controlled	Corvus + atrazine	Lumax/Lexar
Barnyardgrass		
Crabgrass, large		
Cupgrass, woolly		
Foxtail, giant, green, yellow		
Goosegrass		
Millet, wild proso		
Panicum, fall		
Panicum, Texas		
Sandbur, field		
Shattercane		
Signalgrass, broadleaf		

Partial list of weeds labeled for control by Corvus; see label for the complete list. Weed control ratings using products at labeled rates applied either preplant or pre-emergence.

% Control
95 to 100
90<95
80<90
70<80
<70
ND=No Data

Weed control evaluation scale

DIRECT COMPARISON

PRODUCT CHARACTERISTICS

	Corvus + atrazine	Lumax/Lexar	Verdict™
Signal word labeling	Caution	Caution	Warning
Formulation	SC	EC	EC
Rates	3.33 to 5.6 fl oz/A	5 to 7 pt/A	10 to 18 fl oz/A
Mixes with fertilizer carrier sol.	Excellent	Fair	Excellent
Spectrum of soil-applied residual control	Multiple grass and broadleaf weeds	Multiple grass and broadleaf weeds	Multiple grass and broadleaf weeds
Burndown weed control	Grass and broadleaf weeds	Broadleaf weeds only	Broadleaf weeds only
Reactivation weed control	Unparalleled	Slight reach-back primarily from atrazine	None
One-pass, season-long weed control	Good/Excellent	Good/Excellent	Poor
Resistance management	Excellent	Excellent	Good
Application window—soil	30 days preplant	14 days preplant	30 days preplant
Application window—foliar	Through V2	Up to 12-inch corn	Not labeled
Hybrid dependency	None	None	Popcorn hybrids
Crop rotation to soybean	Following spring	Following spring	0–4 mo
Crop rotation to wheat	4 mo	4.5 mo	4 mo
Insecticide interaction	Good/Excellent	Good/Excellent	Poor
PHIs	45 days	60 days	80 days

Excellent	Good/excellent	Good	Fair	Poor/none
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*Pending federal approval for additional crops and weeds controlled.

ONE PASS ZONE

APPLICATION TIMING

Corvus may be applied either preplant, pre-plant incorporated (less than 2 inches deep), pre-emergence or early postemergence. Even if weather or time-delays postpone applications, Corvus can still be used through the 2-leaf collar growth stage (V2).

USE RATES

Corvus is used at ounces per acre vs. pints or quarts per acre required with other herbicides. A full rate of Corvus at the 5.6 fl oz/A rate provides consistent one-pass weed control all season long. See the label and chart below for additional information on use rates.

TANKMIX PARTNERS

Atrazine is a preferred tankmix partner with Corvus, as the two herbicides work together to enhance weed control beyond what the two components offer individually. Corvus is an excellent tankmix partner for numerous herbicides, including 2,4-D, Autumn™, Autumn Super, Buctril®, Define® SC, Liberty® and glyphosate-based herbicides. See the Corvus label for a complete listing of compatible herbicides and usage rates.

EXCELLENT WEED CONTROL WITH ADDED FLEXIBILITY

Corvus can be used in conventional, minimum and no-till crop management systems. Corvus has the flexibility to fit into traditional herbicide programs or in a weed control program with Liberty on LibertyLink® hybrids or with glyphosate on Roundup Ready® hybrids.

SPECIFIC USE DIRECTIONS

Application Timing	Fluid Ounces of Corvus Herbicide per Acre ¹	
	Soil Texture	
	Coarse soils 2.0% O.M. ² or less (sand, loamy sand, sandy loam)	Coarse soils greater than 2.0% O.M. ² (sand, loamy sand, sandy loam) Medium soils (loam, silt loam, silt, sandy clay loam) Fine soils (silty clay loam, clay loam, sandy clay, silty clay, clay)
Preplant ³ (Surface-applied or Incorporated) Pre-emergence Early postemergence	3.33	5.6 ⁴

¹If soils are 2.0 percent or less in O.M. and have a pH of 7.5 or greater, the rate selected from the table above can be reduced by 0.5 fl oz/A.

²O.M. = Organic Matter by weight.

³Corvus may be applied alone or in recommended tankmixes up to 21 days prior to planting. Corvus may be applied up to 30 days prior to planting when used in a planned sequential application program such as Corvus followed by Liberty, Buctril, Laudis® or other postemergence-applied herbicides appropriate for control of the target weeds.

⁴For coarse-textured soils with greater than 2.0 percent O.M., or medium-textured soils with 2.0 percent O.M. or less and where densities of weeds controlled by Corvus herbicide are light to moderate, an appropriate rate down to 4.5 fl oz/A may be selected.

BAYER CROPSCIENCE COMMITMENT

Today and tomorrow, Bayer CropScience focuses on grower needs and innovation to deliver the most complete and effective corn and crop protection portfolio.

IMPORTANT: This bulletin is not intended to provide adequate information for use of these products. Read the label before using these products. Observe all label directions and precautions while using these products.

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