

**THE MOST CONSISTENT AND EFFECTIVE WEED CONTROL
FOR YOUR NON-GMO SOYBEANS.**

ANNUAL GRASSES TARGETED SEQUENTIALLY

CONTROLLED

Barley, wild	Goosegrass	Shattercane
Barnyardgrass	Johnsongrass, seedling	Signalgrass, broadleaf
Crabgrass, large, smooth	Millet, wild proso	Volunteer corn (non-CLEARFIELD*)
Crowfoot grass	Oats, wild	Volunteer wheat (non-CLEARFIELD) ¹
Cupgrass, woolly	Panicum, fall, Texas	Witchgrass
Foxtail, giant, green, yellow	Sandbur, field ¹	

¹ For control, **Prowl**® H₂O herbicide must be soil applied at a full-labeled rate.

SUPPRESSED

Crabgrass, large, smooth	Johnsongrass, rhizome	Stinkgrass
Cupgrass, woolly	Quackgrass	Sedges
Itchgrass	Rice, red	Nutsedge, purple, yellow

ANNUAL BROADLEAF WEEDS TARGETED SEQUENTIALLY

CONTROLLED

Amaranth, Palmer* ¹ , prostrate, redroot, smooth, spiny	Marshelder	Radish, wild
Artichoke, Jerusalem	Mallow, Venice	Ragweed, giant* ¹ , common* ¹
Carpetweed	Morningglory, entireleaf, ivyleaf, smallflower, tall	Smartweed, ladythumb, Pennsylvania
Chickweed, common	Mustard (spp.)	Spurge, annual
Cocklebur, common	Nightshade, black, Eastern	Sunflower
Jimsonweed	black, hairy	Velvetleaf
Kochia*	Pigweed	Waterhemp*
Lambsquarters, common	Pusley, Florida	

* Use a soil application of **Prowl H₂O** followed by a postemergence application of **Raptor**® herbicide at a broadcast rate of 4 to 5 fluid ounces per acre plus a diphenylether such as Ultra Blazer® (acifluorfen) for enhanced control.

¹ Control of light to moderate populations of ALS-susceptible weed species only. For control of heavier populations of ALS-tolerant species, see the product label.

SUPPRESSED

Bindweed, field (seedling), hedge (seedling)	Morningglory, entireleaf ¹ , ivyleaf ¹ , pitted, smallflower ¹ , tall ¹	Sowthistle, annual
Buckwheat, wild	Ragweed, common ¹	Thistle, Canada
Mallow, Venice ¹	Sida, prickly	

¹ For control refer to the 5-fluid-ounce rate in the product label.

Use a soil application of **Prowl H₂O** followed by a postemergence application of **Raptor** at a broadcast rate of 4 to 5 fluid ounces per acre plus a diphenylether such as Ultra Blazer (acifluorfen) for enhanced control of ragweed species, Palmer amaranth, waterhemp and kochia. For more information, please visit agproducts.basf.com.

PROWL H₂O
herbicide

Raptor
herbicide

Always read and follow label directions.

CLEARFIELD, Prowl and Raptor are registered trademarks of BASF. Ultra Blazer is a registered trademark of United Phosphorus Inc.

©2005 BASF Corporation. All Rights Reserved. APN 5-01-002-0001PfbR

**Prowl H₂O Herbicide
Followed by
Raptor Herbicide**



**For maximum yield potential
in non-GMO soybeans.**

BASF
The Chemical Company

PROVEN TWO-PASS CONTACT AND RESIDUAL CONTROL ALL SEASON LONG OF GRASS AND BROADLEAF WEEDS.

1. FOUNDATION WEED CONTROL WITH PROWL® H₂O HERBICIDE

- APPLY EARLY PREPLANT, PREEMERGENCE, OR PREPLANT-INCORPORATED UP TO 45 DAYS BEFORE PLANTING
- BROAD-SPECTRUM RESIDUAL CONTROL OF GRASS AND SMALL-SEEDED BROADLEAF WEEDS, WHEN COMPETITION ON YOUNG SOYBEAN PLANTS CAUSES THE GREATEST YIELD LOSS
- FLEXIBILITY IN ALL TILLAGE AND WEATHER CONDITIONS – WON'T GET TIED UP BY HEAVY SURFACE RESIDUE OF CON-TILL/NO-TILL
- SUPERIOR SURFACE STABILITY VERSUS OTHER DNA HERBICIDES MEANS A WIDER WINDOW FOR INCORPORATION

2. FOLLOW-UP WITH RAPTOR® HERBICIDE FOR SEASON-LONG RESIDUAL CONTROL

- WIDE WINDOW OF APPLICATION – FROM CROP EMERGENCE UNTIL FLOWERING
- BEGIN EARLY POSTEMERGENCE CONTROL 21 DAYS AFTER PLANTING WHILE WEEDS ARE ACTIVELY GROWING UP TO 4" TALL
- EXCELLENT CROP ROTATION FLEXIBILITY
- SIMPLE: APPLY AT 4 FLUID OUNCES PER ACRE FOLLOWING PROWL H₂O FOR ALL SOIL TYPES

Prowl H₂O can be applied preplant surface or preplant incorporated. If no rain within 7 days after application, incorporation may be recommended.

THE IDEAL TWO-PASS PROGRAM COMBINING CONTACT AND RESIDUAL CONTROL OF KEY WEEDS FOR HIGHER POTENTIAL YIELDS.

The timing of a one-pass application is tricky, especially with multiple weed flushes or infestations that crop-up late in the season. But with a pre/post combination of Prowl H₂O followed by Raptor, you get proven contact and residual control of grasses and broadleaf weeds. Both early, when competition from weed pressure is most critical, and all season long. Application windows for both herbicides are wide enough to deliver plenty of flexibility depending on adverse weather conditions, or conflicts with other cropping schedules. And in the end, excellent crop safety and rotational crop flexibility provide you with added peace of mind. For the premium you want in non-GMO soybeans, count on a Prowl H₂O-Raptor two-pass program to deliver.

Relative Emergence of Common Weeds of Summer Annual Crops*

Previous Fall		Early Spring				Summer	
GROUP 0	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
horseweed	foxtail barley	quackgrass	common ragweed	cocklebur	green foxtail	black nightshade	fall panicum
downy brome	kochia	orchardgrass	woolly cupgrass	giant foxtail	hemp dogbane	sunflower	crabgrass
pennycress	Russian thistle	Pennsylvania smartweed	velvetleaf	yellow nutsedge	yellow foxtail	waterhemp	jimsonweed

**These rankings are estimates of emergence sequence and a species could easily shift one category in either direction depending on environment and management practices. Rankings are based primarily on differences in initial emergence and do not consider length of emergence period. Source: Iowa State University, "Weed Emergence Bulletin Available," April 3, 1997.*

As you can see from this research from Iowa State University, weeds emerge from early spring through summer. If you use a contact-only herbicide in late spring, for example, you'll miss all weeds that emerge after that. With a residual, you can control weeds all season long.

LABELED CROPS

Soybeans

ACTIVE INGREDIENTS (MODE OF ACTION)

Prowl® H₂O herbicide: Pendimethalin (meristematic inhibitor; prevents plant cells from dividing and elongating, thus stopping growth).

Raptor® herbicide: Imidazolinone (ALS/AHAS enzyme inhibitor that disrupts protein synthesis and inhibits growth).

APPLICATION METHODS AND TIMING

Preemergence Foundation with Prowl H₂O

Preplant Apply Prowl H₂O up to 45 days before planting.

Notes: In no-till add 2,4-D ester or glyphosate for burndown.

Early Postemergence follow-up with Raptor

Postemergence Apply Raptor from crop emergence until 85 days prior to harvest.

Notes: In a two-pass program following a preplant, preplant incorporated, or preemergence application of Prowl H₂O, it is recommended to begin Raptor applications at 21 days after planting, targeting weeds that are 4" tall or less. Apply

Raptor as a postemergence treatment when weeds are actively growing and before they exceed the maximum recommended size (see product label). Application timing should be based on weed size and not crop growth stage.

Under cold conditions (less than 40° F, maximum daytime temperatures), for maximum weed control, cultivate (where possible) 7-10 days following a postemergence Raptor application. Raptor should be applied a minimum of one hour before rainfall or overhead irrigation.

USE RATES PER ACRE

Prowl H₂O Herbicide

Apply Prowl H₂O herbicide at 1.5 to 3 pints per acre, depending on soil texture (refer to product label for more information).

Raptor Herbicide

In a two-pass program following a preplant, preplant incorporated, or preemergence application of Prowl H₂O, apply Raptor at 4 fluid ounces per acre. Apply Raptor at 5 ounces per acre if not applied following Prowl H₂O.

Notes: Postemergence applications of Raptor require both the addition of 1% v/v MSO and 17 pounds/100 gallons of dry ammonium sulfate (AMS) for optimum weed control. Always apply in a minimum of 15 gallons per acre carrier, increasing to 20 gallons per acre if tall or dense weeds, or in hot and dry conditions.