



OSPREY[®]

Product Bulletin

Grass weed control without compromise

Committed to success in cereals

Bayer CropScience is committed to bringing new and innovative solutions to crop protection. Part of our commitment is reflected in our local Cereal Experts representatives. For any questions concerning the use of Osprey, call you local sales representative or the Bayer CropScience information line at 1-866-99-BAYER (1-866-992-2937), or visit www.cerealexperts.com.

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.



Osprey[®] herbicide has been specially developed for use in winter wheat for post-emergence control of a broad-spectrum of difficult weeds such as Italian ryegrass, wild oats, bluegrass, blackgrass, windgrass, canarygrass and certain broadleaf weeds. Osprey controls both ACC-ase susceptible and ACC-ase resistant ryegrass and wild oats. Osprey herbicide allows rotation to all crops, allowing the most flexible rotational crop choices possible.

- An application of Osprey at proper timing can minimize the effects of jointed goatgrass and downy brome while controlling Italian ryegrass, wild oat and a number of other broadleaf and grass weeds.
- Flexible tankmix options with broadleaf herbicides allow for one pass options for both grass and broadleaf control.
- Wide window of application allows for optimal herbicide application timing.

Herbicide biology and performance

Osprey is unique because it utilizes a different biological pathway to control weeds as compared to many of the popular grass herbicides. It is a tool that packs the power to kill both susceptible and ACC-ase resistant ryegrass and wild oat biotypes. Osprey is safe to the crop while providing dependable weed control especially Italian ryegrass, wild oats, and a number of other grass and broadleaf weeds.

Rotational cropping flexibility

Osprey allows flexibility in your crop planning for the next season. Label recommendations are:

7 DAYS	Wheat
30 DAYS	Barley Sunflowers
90 DAYS	Soybeans Cotton Rice Peas Lentils Peanuts Dry Beans
12 MONTHS	Corn
10 MONTHS	All other crops

Weeds controlled	
GRASS WEEDS	BROADLEAF WEEDS
Blackgrass Bluegrass, annual Bluegrass, roughstalk Canarygrass, hood Canarygrass, littleseed Darnel, Persian Ryegrass, Italian Wild oat Windgrass	Mustard, tumble Mustard, wild Pennycress, field Radish, wild Volunteer Canola

Weeds suppressed	
BROADLEAF WEEDS	BROMUS SPECIES.
Chickweed, common Henbit Pigweed, redroot	Brome, downy Brome, Japanese Brome, riggut Brome, soft Cheat Goatgrass, jointed Hairy chess Quackgrass

Suppressed weeds will be stunted in growth and/or be reduced in number as compared to non-treated areas but performance will not be commercially acceptable.

Stage of growth for application

For maximum yield protection, weed infestations should be treated before they become competitive with the crop. Use 80-degree or 110-degree nozzles that deliver 200 to 350 micron sized droplets for optimum spray coverage and canopy penetration.

- Osprey can be applied post emergence in fall or spring. Best results are obtained when applications are made to young, actively growing weeds.
- A recommended spray adjuvant must be added.
- For optimal control, weed application timing is from 1-leaf to the 2-tiller stage of growth.
- Apply Osprey to fall-sown or winter wheat between emergence and up to the jointing stage.

Application guidelines

- Apply Osprey in a broadcast spray in 10 or more gallons of water per acre.
- For weed control in dense weed canopies, use 15 or more gallons of water per acre.
- Use a spray pressure of 35 to 40 pounds per square inch (measured at the nozzle) with screens that are 50 mesh or larger.

Adjuvant requirement

Extensive testing has shown that Osprey must be combined with a recommended adjuvant for best results. For best crop safety in the Pacific Northwest, non-ionic surfactant plus nitrogen is recommended for Osprey used alone or with a tankmix partner.

- Non-ionic surfactant (NIS) should be at least 80 percent active non-ionic surfactant and be used at 0.5 percent v/v (2 quarts per 100 gallons). Apply Osprey with a non-ionic surfactant plus ammonium nitrogen fertilizer or a methylated seed oil or a “basic blend” type adjuvant.
 - Use a spray grade quality urea ammonium nitrogen fertilizer (28-0-0 to 32-0-0 at 1-2 qt/acre) or ammonium sulfate fertilizer (21-0-0-24 at 1.5-3 lbs/acre)
 - Methylated seed oil (MSO) or “basic blend” adjuvants may be utilized instead of NIS + N.
- Consult with your Bayer CropScience representative if you have questions as to which adjuvant to use with Osprey.

Performance of Osprey

Osprey is absorbed through the foliage of plants, rapidly inhibiting growth of susceptible weeds. Osprey acts by inhibiting the acetolactase synthase (ALS) enzyme system in plants. Following an application of Osprey, weed growth stops almost immediately. Visual symptoms progress from yellowing to necrosis of the growing point and eventual plant death.

The best weed control is obtained when Osprey is applied to young actively growing weeds in vigorously growing wheat that will shade competitive weeds. In warm, moist conditions, the expression of herbicide symptoms on the weed are accelerated; under cool, dry conditions, sulfonylurea herbicides are typically slow to display visual symptoms.

Broadleaf tankmix options

Osprey may be tankmixed with the herbicides listed below to provide broad-spectrum weed control. When using Osprey in tankmix combinations, follow the precautions and directions of the most restrictive label. Herbicides not approved on the list below for tankmixing with Osprey may be applied sequentially.

POSSIBLE TANKMIX PARTNERS	
Affinity®	Harmony Extra XP
Affinity Broadspec	Huskie®
Ally®	MCP ester
Ally Extra	(0.25 – 0.375 lb ai/acre)
Amber®	Olympus®
Buctril®	Peak®
Bronate Advanced®	Starane®
Curtail® M	Starane NXT
Express®	Stinger®
Finesse®	WideMatch®
Harmony®	
<small>Consult appropriate label of each tank mix partner for exact application rates required to control weeds not listed on this label.</small>	
DISEASE CONTROL TANKMIX OPTIONS	
Stratego®	Topsin® M 70 WP
Tilt®	
INSECT CONTROL TANKMIX OPTIONS	
Sevin® XLR Plus	Warrior®