

241-379

3/30/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Jeffrey H. Birk, Ph.D.
Product Registration
BASF Corporation, Agricultural Products
PO Box 13528
Research Triangle Park, NC 27709-3528

MAR 30 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change (Correction to Wheat Supplemental Label)
EPA Reg. No. 241-379
Application Dated February 24, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 02/24/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

2817

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 241-379	2. EPA Product Manager James Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Raptor herbicide (Alternate tradename- Beyond herbicide)	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) BASF 26 Davis Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ Product Name <u>MAR 30 2009</u>	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of final print labeling for Raptor herbicide and alternate tradename, Beyond herbicide (241-379). This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. This notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at jeffrey.birk@basf.com

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jeffrey H. Birk	Title Regulatory Manager	Telephone No. (Include Area Code) 919-547-2622
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Jeffrey H. Birk	5. Date February 24, 2009	

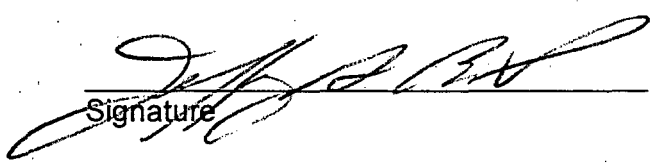
Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
241-379	2-24-09	000241-00379.20090129.NVA 2008-04-191-0361

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.



Signature

02/24/2009
Date

Jeffrey H. Birk
Name (typed)

Regulatory Manager
Title



The Chemical Company

4 7 17
February 24, 2009

U.S. Environmental Protection Agency
Office of Pesticide Programs (7505P)
Document Processing Desk 7504P (**NOTIF**)
Room S-4900
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202
Attention: Mr. James Tompkins, (PM 25)

RE: **Notification:** Raptor® herbicide (241-379)
Clearfield spring and winter wheat supplemental labeling

Dear Mr. Tompkins:

BASF is submitting a **Notification** for the printing of a supplemental label containing the recently approved revised use directions for Raptor herbicide on Clearfield spring and winter wheat. A notification for the printing of this supplemental label was previously submitted on 1/29/09, but upon further review it was discovered that the rotational interval for non-Clearfield wheat in the states of WA, OR and ID was mistakenly printed as 3 months instead of the approved 15 months. This notification corrects that mistake. No other changes have been made to the labeling.

This labeling is being printed using the Beyond herbicide, alternate tradename for Raptor herbicide.

This notification includes the following:

- EPA Application form 8570-1
- Electronic copy of the supplemental labeling
- Certification with Respect to Label Integrity
- Beyond supplemental label for use in Clearfield spring and winter wheat
- Current approved Raptor herbicide label

Thank you for your attention to this matter. If you should have any questions, please feel free to call me at (919) 547-2622.

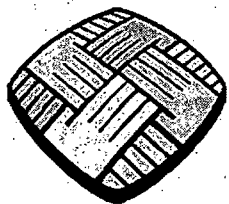
Regards,

Jeffrey H. Birk, Ph.D.
Regulatory Manager
Phone 919-547-2622
Fax: 919-547-2850
Email: jeffrey.birk@basf.com

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The Chemical Company



BEYOND

HERBICIDE | CLEARFIELD® PRODUCTION SYSTEM



For use in CLEARFIELD® spring wheat and CLEARFIELD winter wheat

This supplemental label expires December 31, 2010.

EPA Reg. No. 241-379

Active Ingredient:

ammonium salt of imazamox: 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid* 12.1%

Other Ingredients: 87.9%

Total: 100.0%

* Equivalent to 11.4% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid.

1 gallon contains 1.0 pound of active ingredient as the free acid.

OBSERVE AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, FIRST AID, WORKER PROTECTION STANDARD REQUIREMENTS, PRECAUTIONARY STATEMENTS AND MIXING AND APPLICATION INSTRUCTIONS ON THE Beyond® herbicide CONTAINER LABEL BEFORE USING.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Refer to the **Beyond** container label, EPA Reg. No. 241-379, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Beyond** container label and this supplemental label in possession at the time of pesticide application.

Mixing Instructions

POSTEMERGENCE APPLICATIONS OF BEYOND REQUIRE THE ADDITION OF AN ADJUVANT AND A NITROGEN FERTILIZER SOLUTION.

ADJUVANTS

When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended.

Crop Oil Concentrate (COC), Methylated Seed Oil (MSO), or High Surfactant Oil Concentrate (HSOC).

A petroleum or vegetable seed-based crop oil concentrate may be used. A methylated seed oil is recommended when weeds are under moisture or

temperature stress. Use methylated seed oils or crop oil concentrate at a rate of 1 to 2 gallons/100 gallons of spray solution.

Use HSOC at a rate of 0.5 gallon/100 gallons of spray solution.

DO NOT use crop oil concentrate or methylated seed oil with Beyond on CLEARFIELD® wheat varieties that DO NOT possess 2-gene tolerance.

OR

Surfactants. Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart/100 gallons of spray solution (0.25% volume/volume [v/v]). An organosilicone surfactant may be used in place of a nonionic surfactant.

AND

Nitrogen Fertilizer. Recommended nitrogen-based fertilizers include liquid fertilizers [such as liquid ammonium sulfate (AMS), 28% N, 32% N or 10-34-0] at the rate of 2.5 gallons/100 gallons of spray solution. Instead of a liquid fertilizer, spray-grade ammonium sulfate may be used at the rate of 12 to 15 pounds/100 gallons of spray solution.

NOTIFICATION

MAR 30

For CLEARFIELD® spring wheat and CLEARFIELD winter wheat, AMS/nitrogen substitutes are not recommended in place of ammonium sulfate, 28% N, 32% N, or 10-34-0 unless recommended by BASF.

When targeting feral rye or weeds under moisture or temperature stress, using higher nitrogen fertilizer rates [Urea Ammonium Nitrate (UAN) at 5% v/v or 20 lbs AMS/100 gallons] may improve weed control. Additional crop response may be observed when higher fertilizer rates are used.

Fill the spray tank 1/2 to 3/4 full with clean water. Use a calibrated measuring device to measure the required amount of Beyond® herbicide. Add Beyond to the spray tank while agitating. Add adjuvants and fill the remainder of the tank with water.

NOTE: Nitrogen fertilizer is not required when applied in use areas south of Interstate Highway 40, except in the states of Arizona, California, New Mexico, Oklahoma, and Texas.

TANK MIX COMBINATIONS WITH OTHER HERBICIDES

If other herbicides or other spray tank components are tank mixed with Beyond, while agitating, add components in the following order and thoroughly mix after adding each component.

1. Fill spray tank 1/2 to 3/4 full with clean water.
2. Add soluble-packet products and thoroughly mix.
3. Add WP (wetable powder), DG (dispersible granule), DF (dry flowable) or liquid flowable formulations not in soluble packets.
4. Add Beyond and thoroughly mix.
5. Add other aqueous solution products.
6. Add EC (emulsifiable concentrate) products.
7. Add surfactant or crop oil to the spray tank.
8. Add nitrogen fertilizer solution.
9. While agitating, fill the remainder of the tank with water.

To avoid injury to sensitive crops, spray equipment used for Beyond applications must be drained and thoroughly cleaned with water before being used to apply other products.

When Beyond is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages may be exceeded. Beyond cannot be mixed with any product containing a label prohibiting such mixtures.

CLEARFIELD SPRING WHEAT

DIRECTIONS FOR USE

Beyond can be applied postemergence on CLEARFIELD wheat (imidazolinone-tolerant wheat) varieties. Apply only on selected spring wheat varieties labeled "CLEARFIELD" and warranted by the seed supplier to possess tolerance to direct application of certain imidazolinone herbicides. **DO NOT** apply Beyond to wheat varieties that lack resistance/tolerance to imidazolinone herbicides. Contact your seed supplier, chemical dealer or BASF to obtain information regarding CLEARFIELD wheat varieties.

Apply Beyond as an early postemergence treatment when weeds are actively growing and before broadleaf weeds exceed a height of 3 inches and grasses exceed 4 to 5 leaves (unless otherwise indicated). Under conditions of cold temperatures (less than 40°F maximum daytime temperature), weed control may be less than optimal. A thin stand of wheat may result in unacceptable weed control. Beyond is effective in controlling weeds in conservation tillage and conventional tillage wheat production systems. Delay application until the majority of the weeds are at the specified growth stage. When a mixture of grasses and broadleaf weeds are present, time the application to the grass weeds for optimum control.

When adequate soil moisture is present, Beyond will provide residual activity of susceptible germinating weeds. Activity on established weeds will depend on the weed species and the location of its root system in the soil.

Occasionally, reduction in plant height or temporary yellowing of crop plants may occur following Beyond applications. These effects can be more pronounced in spray overlap areas and/or if crops are growing under stressful environmental conditions (such as, but not limited to, drought, excessive moisture, improper fertility, improper varietal adaptation, poor planting conditions, etc.). To avoid possible crop injury, **DO NOT** apply Beyond to CLEARFIELD wheat when extreme cold temperatures (less than 40°F maximum daytime temperature) are expected within 1 week of application. Crop response associated with stress conditions and overlaps shall be the responsibility of the user.

Weed control is optimized when Beyond is applied to actively growing wheat. Plant a locally adapted CLEARFIELD variety at the normal seeding rate for your geography. Apply to wheat after tiller initiation has begun and prior to the jointing stage of growth (and when the weeds are at the appropriate size). See **WEEDS CONTROLLED** tables.

APPLICATION TIMING

Apply **Beyond**® herbicide to **CLEARFIELD**® spring wheat at 4-leaf to prior-to jointing. See following tables for specific weed growth stages.

Use Rate

Apply 0.031 to 0.039 lb imazamox ae/acre (4 to 5 fl ozs **Beyond**/acre). See **WEEDS CONTROLLED** section for detailed use rate specifications.

ADJUVANTS AND SPRAY CARRIER

A nonionic surfactant **and** nitrogen-based fertilizer **must** be added to the spray solution for optimum weed control. For improved weed control, a crop oil concentrate (COC) or a methylated seed oil (MSO) may be substituted for the nonionic surfactant. The use of COC or MSO in place of the nonionic surfactant in **CLEARFIELD** spring wheat may increase crop response. When **Beyond** is tank mixed with another herbicide, using COC or MSO in **CLEARFIELD** spring wheat is only recommended when the **Beyond** tank mix partner allows the use of COC or MSO. See the **ADJUVANTS** section under **Mixing Instructions** for specific instructions.

Liquid Fertilizer as a Carrier. **Beyond** may be applied to **CLEARFIELD** spring wheat in a water/liquid fertilizer solution with at least 50% water. Add a nonionic surfactant at the rate of 1 quart/100 gallons of spray solution (0.25% v/v). Some crop leaf burn from the fertilizer may occur. The use of a COC, HSOC or MSO in place of the nonionic surfactant may increase crop response.

Crop-specific Restrictions and Limitations

DO NOT apply more than 0.039 lb imazamox ae/acre (5 fl ozs **Beyond**/acre) during the growing season.

There are no restrictions following an application of **Beyond** for feeding or grazing of wheat forage and hay.

WEEDS CONTROLLED

Beyond will control or suppress listed weeds when applied postemergence at the specified rates listed as follows.

Broadleaf Weeds Controlled by Beyond in CLEARFIELD Spring Wheat (4 to 5 fl ozs/A)

Weed Size	
	Maximum Size (inches)
Canola, volunteer (non-CLEARFIELD)	5
Chickweed, common	3
Cocklebur, common	3
Flixweed	3
Henbit	3
Knotweed, prostrate	3
Lambsquarters, common ¹	1
Mallow,	
Common	3
Venice	1
Mustard,	
Black	4
Blue	4
Tumble	3
Wild	4
Nightshade,	
Black	5
Eastern black	5
Hairy	5
Pennycress, field	3
Pigweed,	
Redroot	5
Smooth	4
Spiny	3
Purslane, common	3
Radish, wild	3
Rocket,	
London	5
Yellow	5
Shepherdspurse	5
Smartweed,	
Ladysthumb	3
Pennsylvania	3
Spurge, prostrate	3
Tansymustard, green	4
Thistle, Russian (non-ALS resistant)	3
Velvetleaf	3

¹**Beyond** provides suppression of common lambsquarters at 4 fl ozs/A west of the Rocky Mountains.

Broadleaf Weeds Suppressed by Beyond® herbicide Applications in CLEARFIELD® Spring Wheat (4 to 5 fl ozs/A)

Weed Size	
	Maximum Size (inches)
Bedstraw	3
Buckwheat, wild ¹	3
Dandelion	3
Ragweed, Common	3
Giant	3
Thistle, Canada	3

¹ See **Specific Weed Problems** section for more information.

Grass Weeds Controlled by Beyond in CLEARFIELD Spring Wheat (4 to 5 fl ozs/A)

Weed Size	
	Number of Leaves (maximum tillers)
Barnyardgrass	1 to 5 (1)
Brome, California	1 to 5 (2)
Cheat	1 to 5 (2)
Downy	1 to 5 (2)
Japanese	1 to 5 (2)
Canarygrass, littleseed	1 to 5 (2)
Cereals, volunteer	
Barley	1 to 6 (1)
Oat	1 to 6 (1)
Wheat (non-CLEARFIELD)	1 to 4 (1)
Corn, volunteer (non-CLEARFIELD)	1 to 4
Crabgrass, large	1 to 4 (1)
Darnel, Persian	1 to 5 (2)
Foxtail, Giant	1 to 6 (2)
Green	1 to 4 (1)
Yellow	1 to 4 (1)
Jointed goatgrass	1 to 5 (2)
Oats, wild ¹	1 to 5 (2)
Rescuegrass	1 to 4 (1)
Ryegrass, Italian ^{1,2}	1 to 4 (1)
Rye, feral or cereal ^{1,2}	1 to 4 (1)

¹ See **Specific Weed Problems** section.

² Suppression only.

Specific Weed Problems in CLEARFIELD Spring Wheat

Feral rye (cereal, volunteer rye). Beyond suppresses emerged feral rye only. Apply to feral rye before the first tiller forms. When feral rye develops tillers, suppression is significantly reduced.

Italian ryegrass. Beyond suppresses emerged Italian ryegrass only. Under favorable growing conditions, ryegrass may germinate over several weeks.

Kochia. Naturally occurring ALS/AHAS-resistant biotypes of kochia are common in wheat fields. In many cases, a tank mixture with Beyond will be required for acceptable control. Apply Beyond in a tank mixture with a herbicide(s) labeled to control kochia (e.g. **Clarity® herbicide** + 2,4-D). Apply to kochia 2 inches in size or less.

Wild buckwheat. For enhanced control of wild buckwheat, add **Starane® herbicide** or **Clarity** to the tank mixture. Apply to wild buckwheat with no more than 2 true leaves.

Wild oats. Beyond controls emerged wild oats only. Under favorable growing conditions, wild oats may germinate over several weeks. Beyond does not provide residual control of wild oats.

TANK MIX HERBICIDE COMBINATIONS WITH BEYOND

Recommended tank mixes for postemergence applications of Beyond on CLEARFIELD wheat varieties are the following herbicides:

2,4-D Ester	Clarity
Banvel®	Curtail® M
Bronate®	MCPA
(bromoxynil + MCPA)	Starane
Buctril®	

Limit bromoxynil applications (**Bronate** or **Buctril**) to 0.5 lb/acre active ingredient when tank mixed with **Beyond**.

When broadleaf herbicides are tank mixed with **Beyond**, there may be some reduction in weed control, particularly grass weeds.

ALS-inhibiting herbicides should not be tank mixed with Beyond. Beyond tank mixes with ALS-inhibiting herbicides may result in unacceptable crop response.

When **Beyond** is used in combination with another herbicide, refer to the respective label for rates, methods and proper timing of application, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label use directions and precautions.

CLEARFIELD® WINTER WHEAT

DIRECTIONS FOR USE

Beyond® herbicide can be applied postemergence on **CLEARFIELD** wheat (imidazolinone-tolerant wheat) varieties. Apply only on selected winter wheat varieties labeled **CLEARFIELD** and warranted by the seed supplier to possess tolerance to direct application of certain imidazolinone herbicides. **DO NOT** apply **Beyond** to wheat varieties that lack resistance/tolerance to imidazolinone herbicides. Contact your seed supplier, chemical dealer or BASF to obtain information regarding **CLEARFIELD** wheat varieties.

Apply Beyond as an early postemergence treatment when weeds are actively growing and before broadleaf weeds exceed a height of 3 inches and grasses exceed 4 to 5 leaves (unless otherwise indicated). Under conditions of cold temperatures (less than 40°F maximum daytime temperature), weed control may be less than optimal. A thin stand of wheat may result in unacceptable weed control.

Beyond is effective in controlling weeds in conservation tillage and conventional tillage wheat production systems. **Beyond** can be applied in the fall/winter or spring for winter or spring annual weed control, respectively. Delay application until the majority of the weeds are at the specified growth stage. When a mixture of grasses and broadleaf weeds are present, time the application to the grass weeds for optimum control.

When adequate soil moisture is present, **Beyond** will provide residual activity of susceptible germinating weeds. Activity on established weeds will depend on the weed species and the location of its root system in the soil.

Occasionally, reduction in plant height or temporary yellowing of crop plants may occur following **Beyond** applications. These effects can be more pronounced in spray overlap areas and/or if crops are growing under stressful environmental conditions (such as, but not limited to, drought, excessive moisture, improper fertility, improper varietal adaptation, poor planting conditions, etc.). To avoid possible crop injury, **DO NOT** apply **Beyond** to **CLEARFIELD** wheat when extreme cold temperatures (less than 40°F maximum daytime temperature) are expected within 1 week of application. Crop response associated with stress conditions and overlaps shall be the responsibility of the user.

Weed control is optimized when **Beyond** is applied to actively growing wheat. Plant a locally adapted **CLEARFIELD** variety at the normal seeding rate for your geography. Apply to wheat after tiller initiation has begun and prior to the jointing stage of growth (and when the weeds are at the appropriate size). See the **WEEDS CONTROLLED** tables.

Application Timing in CLEARFIELD Winter Wheat

Apply **Beyond** to **CLEARFIELD** winter wheat after tiller initiation but prior to jointing. See following tables for specific weed growth stages.

Use Rate

Apply 0.031 to 0.047 lb imazamox ae/A (4 to 6 fl ozs **Beyond**/acre). See **WEEDS CONTROLLED** section for detailed use rate specifications.

ADJUVANTS AND SPRAY CARRIER

A nonionic surfactant and nitrogen-based fertilizer **must** be added to the spray solution for optimum weed control. See the **ADJUVANTS** section under **Mixing Instructions** for specific instructions.

2-gene Winter Wheat: For improved weed control, a crop oil concentrate or a methylated seed oil may be substituted for the nonionic surfactant. The use of a COC or MSO in place of the nonionic surfactant in 2-gene winter wheat may increase crop response. When **Beyond** is tank mixed with another herbicide, using COC or MSO in 2-gene winter wheat is only recommended when a **Beyond** tank mix partner allows the use of a COC or MSO. Apply only on **CLEARFIELD** winter wheat varieties that possess 2-gene tolerance. Contact your winter wheat seed supplier to confirm that the variety you are about to treat contains 2-gene tolerance.

Liquid Fertilizer as a Carrier. **Beyond** may be applied to **CLEARFIELD** winter wheat in a water/liquid fertilizer solution with at least 50% water. Add a nonionic surfactant at the rate of 1 quart/100 gallons of spray solution (0.25% v/v). Some crop leaf burn from the fertilizer may occur. The use of a COC, HSOC or MSO in place of the nonionic surfactant in 2-gene winter wheat may increase crop response.

Crop-specific Restrictions and Limitations

DO NOT apply more than 0.062 lb imazamox ae/acre (8 fl ozs **Beyond**/acre) during the growing season.

There are no restrictions following an application of **Beyond** for feeding or grazing of wheat forage and hay.

Application of **Beyond** to weeds that have been grazed may result in reduced weed control. For optimum weed control, allow a period of 7 days between the end of grazing and **Beyond** application for weed regrowth to occur. Under cold conditions, wait until new growth of weeds is evident before applying **Beyond** in fields that have been grazed.

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WEEDS CONTROLLED in CLEARFIELD®

Winter Wheat

Beyond® herbicide will control or suppress listed weeds when applied postemergence at the specified rates listed as follows.

Broadleaf Weeds Controlled by Beyond in CLEARFIELD Winter Wheat

	Application Rate	Weed Size
	fl ozs/A	Maximum Size (inches)
Wild beet	4 to 6	3
Canola, volunteer (non-CLEARFIELD)	4 to 6	5
Chickweed, common	4 to 6	3
Cocklebur, common	4 to 6	3
Filaree,		
Redstem	5 to 6	3
Whitestem	5 to 6	3
Flixweed	4 to 6	3
Henbit	5 to 6	3
Knotweed, prostrate	5 to 6	3
Lambsquarters,		
Common	4 to 6 ¹	1
Lettuce, miner's	5 to 6	3
Jimsonweed	4 to 6	3
Mallow,		
Common	5 to 6	3
Venice	5 to 6	1
Morningglory,		
Entireleaf	5 to 6	3
Ivyleaf	5 to 6	3
Smallflower	5 to 6	3
Tall	5 to 6	3
Mustard,		
Black	4 to 6	3
Blue	4 to 6	4
Tumble	4 to 6	4
Wild	4 to 6	4
Nightshade,		
Black	4 to 6	5
Eastern black	4 to 6	5
Hairy	4 to 6	5
Pennycress, field	4 to 6	3
Pigweed,		
Redroot	4 to 6	5
Smooth	4 to 6	4
Spiny	4 to 6	3
Purslane, common	4 to 6	3

Broadleaf Weeds Controlled by Beyond in CLEARFIELD Winter Wheat (continued)

	Application Rate	Weed Size
	fl ozs/A	Maximum Size (inches)
Radish, wild	4 to 6	3
Rocket,		
London	5 to 6	5
Yellow	5 to 6	5
Shepherdspurse	4 to 6	5
Smartweed,		
Ladysthumb	4 to 6	3
Pennsylvania	4 to 6	3
Swamp	5 to 6	3
Spurge, prostrate	5 to 6	3
Tansymustard, green	4 to 6	4
Thistle, Russian (non-ALS-resistant)	5 to 6	3
Velvetleaf	4 to 6	3

¹ **Beyond** controls common lambsquarters at 4 fl ozs/A east of the Rocky Mountains. Apply 5 to 6 fl ozs/A west of the Rocky Mountains.

Broadleaf Weeds Suppressed by Beyond in CLEARFIELD Winter Wheat

	Application Rate	Weed Size
	fl ozs/A	Maximum Size (inches)
Bedstraw	5 to 6	3
Buckwheat, wild ¹	5 to 6	3
Dandelion	5 to 6	3
Fiddleneck	5 to 6	3
Primrose,		
Cutleaf	5 to 6	3
Evening	5 to 6	3
Ragweed,		
Common	5 to 6	3
Giant	5 to 6	3
Thistle, Canada	5 to 6	3

¹ See **Specific Weed Problems** section for more information.

Grass Weeds Controlled by Beyond® herbicide in CLEARFIELD® Winter Wheat

	Application Rate	Weed Size
	fl ozs/A	Number of Leaves (maximum tillers)
Barnyardgrass	5 to 6	1 to 5 (1)
Brome,		
California	4 to 6	1 to 5 (2)
Cheat ¹	4 to 6	1 to 5 (2)
Downy ¹	4 to 6	1 to 5 (2)
Japanese	4 to 6	1 to 5 (2)
Canarygrass, littleseed	4 to 6	1 to 5 (2)
Cereals, volunteer		
Barley	4 to 6 ¹	1 to 6 (1)
Oat	4 to 6 ¹	1 to 6 (1)
Wheat (non-CLEARFIELD)	4 to 6 ¹	1 to 4 (1)
Corn, volunteer (non-CLEARFIELD)	4 to 6	1 to 4
Crabgrass, large	5 to 6	1 to 4 (1)
Darnel, Persian	4 to 6	1 to 5 (2)
Foxtail,		
Giant	4 to 6	1 to 6 (2)
Green	4 to 6	1 to 4 (1)
Yellow	4 to 6	1 to 4 (1)
Johnsongrass, seedling	5 to 6	1 to 5 (1)
Jointed goatgrass	4 to 6	1 to 5 (2)
Oats, wild ¹	4 to 6	1 to 5 (2)
Rescuegrass	4 to 6	1 to 4 (1)

¹ See **Specific Weed Problems** section for more information.

Grass Weeds and Sedges Suppressed by Beyond in CLEARFIELD Winter Wheat

	Application Rate	Weed Size
	fl ozs/A	Number of Leaves (maximum tillers)
GRASSES		
Brome,		
California	4 to 6	6+ (3+)
Cheat	4 to 6	6+ (3+)
Downy	4 to 6	6+ (3+)
Japanese	4 to 6	6+ (3+)
Fescue, rattail	4 to 6	1 to 3
Johnsongrass, rhizome	6	1 to 5
Jointed goatgrass	4 to 6	6+ (3+)
Rye, feral or cereal ¹	4 to 6	1 to 4 (1)
Ryegrass, Italian ¹	4 to 6	1 to 4 (1)
SEDGES		
Nutsedge,		
Purple	6	1 to 3
Yellow	6	1 to 3
Quackgrass	6	1 to 5

¹ See **Specific Weed Problems** section.

Specific Weed Problems in CLEARFIELD Winter Wheat

Beyond is most effective for grass control when applied in the fall. If summer annual broadleaf weeds germinate in the spring (following a fall application of **Beyond**), a broadleaf herbicide may need to be applied. If the **Beyond** application is made in the spring, the broadleaf herbicide may be tank mixed with **Beyond**. For improved control of grasses, such as feral rye (suppression), Italian ryegrass (suppression), cheat and downy brome, use higher rates of nitrogen fertilizer (up to 50% of the spray solution). Higher rates of nitrogen can improve weed control with **Beyond**, especially under drought stress conditions, but additional crop response may be observed. AMS/nitrogen substitutes are not recommended when targeting hard-to-control weeds.

Cheat and Downy brome. Sequential applications of **Beyond** may be needed to control subsequent germination flushes.

Feral rye (cereal, volunteer rye). **Beyond** suppresses emerged feral rye only. Apply to feral rye before the first tiller forms. When feral rye develops tillers, suppression is significantly reduced. If feral rye germinates in the fall, an application of **Beyond** in the fall will provide the best suppression. If feral rye germinates following an application of **Beyond** in the fall, a spring application may be necessary for suppression of subsequent germination flushes. Two applications of **Beyond** will provide the best suppression of feral rye.

Italian ryegrass. Beyond® herbicide suppresses emerged Italian ryegrass only. Under favorable growing conditions, ryegrass may germinate over several weeks (especially in the southern U.S.). **Beyond DOES NOT provide residual control of Italian ryegrass.** Because of the potential for multiple germination flushes, Italian ryegrass suppression in New Mexico, Oklahoma, and Texas may not be satisfactory. Optimum application timing is to ryegrass with 3 to 4 leaves and before the first tiller. Suppression is reduced when tillers develop. In the Pacific Northwest, a spring application of 6 fl ozs/A of **Beyond** is specified to achieve the most consistent suppression. If Italian ryegrass germinates following a fall application, a spring application may be necessary. Apply the higher specified rate when Italian ryegrass is at the maximum specified size, or to heavy grass populations.

Kochia. Naturally occurring ALS/AHAS-resistant biotypes of kochia are common in wheat fields. In many cases, a tank mixture with **Beyond** will be required for acceptable control. If **Beyond** is applied in the spring, apply **Beyond** in a tank mixture with a herbicide(s) labeled to control kochia (i.e. **Clarity® herbicide + 2,4-D**). Apply to kochia 2 inches in size or less.

Wild buckwheat. For enhanced control of wild buckwheat, add **Starane® herbicide** or **Clarity** to the tank mixture. Apply to wild buckwheat with no more than 2 true leaves.

Wild oats. Beyond controls emerged wild oats only. Under favorable growing conditions, wild oats may germinate over several weeks (especially in the southern U.S.). **Beyond does not provide residual control of wild oats.** Because of the potential for multiple germination flushes, wild oat control in New Mexico, Oklahoma, and Texas may not be satisfactory.

TANK MIX HERBICIDE COMBINATIONS WITH Beyond

Recommended tank mixes for postemergence applications of Beyond on CLEARFIELD® wheat varieties are the following herbicides:

- | | |
|---------------------|-------------------|
| 2,4-D Ester | Clarity® |
| Banvel® | Curtail® M |
| Bronate® | MCPA |
| (bromoxynil + MCPA) | Starane® |
| Buctril® | |

Limit bromoxynil applications (**Bronate** or **Buctril**) to 0.5 lb/acre of active ingredient when tank mixed with **Beyond**.

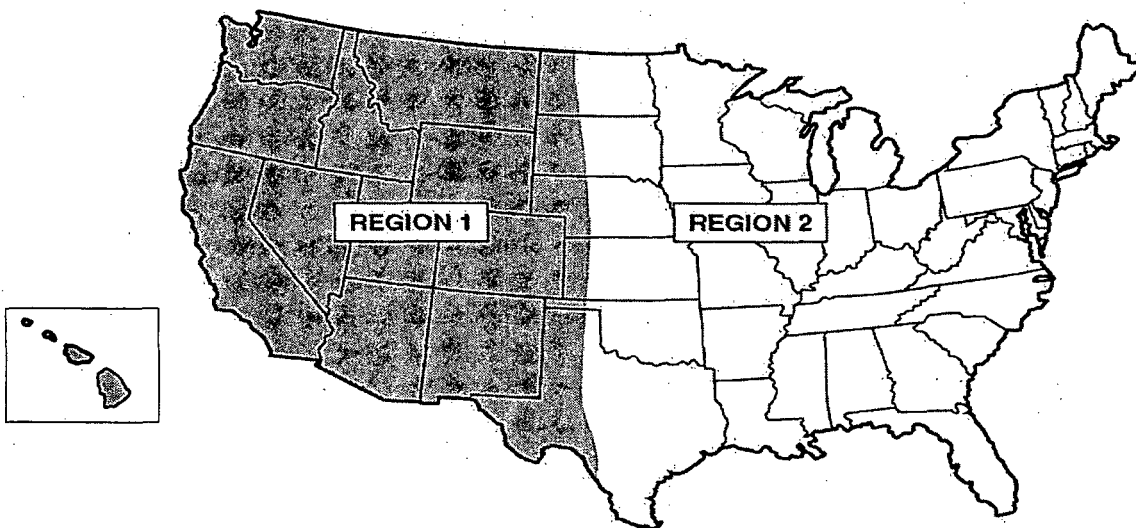
When broadleaf herbicides are tank mixed with **Beyond**, there may be some reduction in weed control, particularly grass weeds.

Sulfonylurea herbicides should not be tank mixed with Beyond. Beyond tank mixes with sulfonylurea herbicides may result in unacceptable crop response.

When **Beyond** is used in combination with another herbicide, refer to the respective label for rates, methods and proper timing of application; weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label use directions and precautions.

ROTATIONAL CROP RESTRICTIONS

Rotational crops may be planted after applying the specified rate of **Beyond® herbicide** in the regions, as indicated on the map.



Region 1 consists of states and parts of states WEST of US Highway 83 (Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, and western parts of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota, and Texas).

Region 2 consists of states and parts of states to the EAST of US Highway 83 (includes the eastern parts of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota, and Texas, and the states to the east of these states).

Rotational Interval (months) Following an Application of Beyond® herbicide

PLANT-BACK INTERVAL (months)	REGION 1	REGION 2
ANYTIME	CLEARFIELD® canola CLEARFIELD lentil CLEARFIELD sunflower CLEARFIELD wheat Dry beans and dry peas English peas Lima beans (succulent) Snap beans Soybeans	CLEARFIELD canola CLEARFIELD lentil CLEARFIELD rice CLEARFIELD sunflower CLEARFIELD wheat Dry beans and dry peas English peas Lima beans (succulent) Snap beans Soybeans
3 MONTHS	Alfalfa Wheat ^{5,6} (non- CLEARFIELD)	Alfalfa Wheat ⁵ (non- CLEARFIELD)
4 MONTHS	Rye	Rye
8 1/2 MONTHS	Corn (field, pop, seed, sweet, CLEARFIELD and non- CLEARFIELD)	Corn (field, pop, seed, sweet, CLEARFIELD and non- CLEARFIELD)
9 MONTHS	Barley ¹ Cantaloupe Cotton Grain sorghum Lettuce Millets Oat Onion	Peanut Pumpkin Rice Squash Sunflower Tobacco Watermelon
18 MONTHS	Barley ¹ Broccoli Cabbage Carrot Cucumber All other crops not listed in the ROTATIONAL CROP restrictions	Barley ¹ Broccoli Cabbage Carrot Cucumber Peanut Pepper Potato ² Pumpkin Rice Squash Sunflower Tobacco Tomato Turnip Watermelon Sugar beet ³ Table beet ³ All other crops not listed in the ROTATIONAL CROPS restrictions
26 MONTHS	Canola (non- CLEARFIELD) Condiment mustard Sugar beet ⁴ Table beet	Sugar beet ³ Table beet ³

¹ In **Region 1** and **Region 2**, refer to the following table for rotational intervals for planting barley following applications of **Beyond**.

² In **Region 2**, refer to the following table for rotational intervals for planting potato following applications of **Beyond**.

³ In **Region 2**; sugar beets and table beets can be planted 18 months following an application of **Beyond** if the soil pH is uniformly 6.2 or greater. If the soil pH is less than 6.2, the rotational interval is 26 months. Sugar beet yields can be reduced when grown in soil conditions with a pH less than 6.2. If the soil is limed to adjust the soil pH, apply the lime at least 18 months prior to planting sugar beet or other rotational crops under the 18-month rotational interval.

⁴ For sugar beets grown in parts of Nebraska west of Highway 83, and Platte, Goshen and Laramie counties in Wyoming, follow the sugar beet rotational crop restrictions for **Region 2** for sprinkler-irrigated fields only. If fields are dryland, flood or furrow irrigated, follow restrictions for **Region 1**. A minimum of 10 inches of overhead irrigation must be applied each season to qualify for **Region 2** guidelines.

⁵ Planting non-**CLEARFIELD** spring or winter wheat in areas receiving less than 10 inches of precipitation from the time of **Beyond** application up until wheat planting may result in wheat injury. The possibility of injury increases if less than normal precipitation occurs from the time of application to planting and/or within the first 2 months after **Beyond** application.

⁶ In **Region 1**, refer to the following table for rotational intervals for planting non-**CLEARFIELD** wheat following applications of **Beyond**.
When taking soil samples to determine soil pH, utilize a grid sampling technique, sampling to a depth of 3 to 4 inches.

Barley Rotational Interval Based on pH, Moisture and Tillage (Region 1 and Region 2)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>18" R+I AND pH >6.2	9 months	9 months
	<18" R+I OR pH <6.2	18 months	9 months

Potato Rotational Interval Based on pH and Moisture (Region 2)		
pH and Rainfall Requirements	>18" R+I AND pH >6.2	9 months
	<18" R+I OR pH <6.2	18 months

Non-CLEARFIELD® Wheat Rotational Interval based on pH, Moisture and Tillage (Region 1)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>10" R+I AND pH >6.2	3 months	3 months
	<10" R+I OR pH <6.2	15 months	3 months

Non-CLEARFIELD Wheat Rotational Interval based on pH, Moisture and Tillage (WA and selected counties in ID* and OR**)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>16" R+I AND pH >6.2	3 months	3 months
	<16" R+I OR pH <6.2	15 months	15 months

* Selected counties in Idaho: Benewah, Bonner, Boundary, Clearwater, Idaho, Kootenai, Latah, Lewis, Nez Perce and Shoshone

** Selected counties in Oregon: all but Malheur

R+I = Rainfall and overhead irrigation from the time of **Beyond® herbicide** application up until time of barley, non-CLEARFIELD wheat, or potato planting. **Does not include furrow or flood irrigation.**

If the rainfall or pH requirements are not fully met, and barley or non-CLEARFIELD wheat is planted prior to the specified rotation interval, injury may be reduced by tillage, such as deep disking (greater than 6 inches deep) after crop harvest but prior to November 1.

The possibility of injury to barley or non-CLEARFIELD wheat planted the next season increases **if less than normal precipitation occurs from the time of application to planting and/or within the first two months after Beyond application.**

FURROW-IRRIGATED AND FLOOD-IRRIGATED CROPS

Following harvest of furrow-irrigated or flood-irrigated crops, the soil should be thoroughly mixed by plowing or deep disking to minimize the potential for herbicide carryover to the following crop.

Use of **Beyond** in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors, such as arid conditions, make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

GENERAL PRECAUTIONS

In the event of a crop loss due to weather, dry beans, dry peas, **CLEARFIELD**[®] canola, **CLEARFIELD** corn, **CLEARFIELD** lentil, **CLEARFIELD** sunflowers, **CLEARFIELD** wheat, peas (English), lima beans (succulent), snap beans, or soybeans can be replanted. **DO NOT** make an additional application of **Beyond**[®] herbicide.

Application of products containing chlorimuron ethyl (herbicides such as **Canopy**[®], etc.), metsulfuron-methyl (**Harmony**[®] **Extra**), imazaquin (**Scepter**[®] **70 DG herbicide**) or imazethapyr (**Pursuit**[®] herbicide, **Pursuit**[®] **DG herbicide**, **Pursuit**[®] **Plus EC herbicide**) the same year as **Beyond** may increase the risk of injury to sensitive rotational crops. Consult all pertinent labels for use of these products in combinations.

If arid conditions occur during the year of application, rotational crop injury may occur.

CONDITIONS OF SALE AND WARRANTY

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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**USES WITH OTHER PRODUCTS
(TANK MIXES)**

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