













## **Cultivation**

Avoid disturbing (e.g., cultivation) treated areas for at least 7 days following an application of IMPACT to allow maximum possible herbicide uptake, translocation, and weed control. If cultivation is part of a diverse weed management program, it is important to avoid deep cultivation that will move dormant weed seeds into the soil zone where germination is likely.

## **Insecticide Information**

IMPACT may be used sequentially or in combination with soil-applied or foliar-applied insecticides registered for use in corn.

## **Cleaning Spray Equipment**

To avoid injury to sensitive crops, drain and clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions. Equipment should be cleaned and triple rinsed before and after applying this product.

## **II. APPLICATION INSTRUCTIONS**

IMPACT is effective for control of many emerged weeds in conservation and conventional-tillage crop production systems.

Do not apply IMPACT within 30 feet of native plant community.

The applicator is responsible for any loss or damage that results from spraying IMPACT in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances when making applications.

### **IMPACT Application Rate and Timing:**

- Apply up to a total of 2.0 fluid ounces of IMPACT (0.044 lb topramezone), in a single application or sequential applications, per acre per growing season.
- IMPACT can be applied up to 45 days prior to corn harvest.
- Apply IMPACT to emerged broadleaf and grass weeds that are actively growing.
- For optimal weed control apply IMPACT before weeds exceed labeled maximum size.
- IMPACT should be applied a minimum of one hour before rainfall or overhead irrigation.

### **Spray Coverage**

Weeds must be thoroughly covered with spray droplets to achieve consistent control of emerged weeds. Dense leaf canopies will shelter small weeds and can prevent adequate spray coverage on these weeds resulting in poor overall weed control.

### **Ground Application Methods and Equipment**

Uniformly apply IMPACT with properly calibrated ground equipment in 15 or more gallons of water per acre. Use water volumes of greater than 15 gallons per acre when treating larger weeds and/or dense weed infestations. Select nozzle types, spray pressure, and carrier volume that deliver medium to coarse spray droplets (250-400 microns in diameter) which will thoroughly cover target weeds and will penetrate to smaller weeds which are sheltered by larger weeds. Do not use nozzle types that produce very coarse, extremely coarse or ultra-coarse spray droplets, as this may result in unsatisfactory weed control. Refer to ASABE S572.1 droplet size classification located at [www.ASABE.org](http://www.ASABE.org). IMPACT application can be made with drop nozzles if the crop canopy prevents adequate weed coverage using broadcast application methods.

## Spray Drift

Do not apply when weather conditions favor spray drift to adjacent crops and vegetation; injury to sensitive plant species can occur if contacted by drift. To avoid spray drift from treated areas, do not make applications when wind speeds exceed 10 mph or during periods of temperature inversions.

Use of nozzles that are designed to provide larger droplet sizes will reduce spray drift potential. Agriculturally approved drift-reducing additives may also be used with IMPACT in accordance with the product labels.

## Aerial Application Methods and Equipment

Uniformly apply with properly calibrated aerial equipment in 3 or more gallons of water per acre. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to non-target areas.

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.

- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed towards the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph or during periods of temperature inversions. Coarse sprays (larger droplets) are less likely to drift.

## III. ADDITIVES

Applications of IMPACT to emerged weeds require the addition of an adjuvant **AND** a nitrogen fertilizer source to achieve optimum control, unless specific directions are given in Section VII. Crop Use Directions – Tank Mixes. When using an adjuvant with this product, selecting an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended. See Tables 1 and 2 for Maximum Weed Size when determining additive rates specified below.

**1. ADJUVANTS:** When applying IMPACT alone or in a tank-mix with atrazine, use either a methylated seed oil (MSO) or high surfactant methylated oil concentrate (HSMOC) with IMPACT for best performance across a wide range of environmental conditions. MSO or HSMOC must contain a minimum of 10% or 40% emulsifiers, respectively. Apply either MSO adjuvants at rates of 1.0 to 1.5 gallons per 100 gallons of water (1.0% to 1.5% v/v), or HSMOC adjuvants at rates of 2 to 3 quarts per 100 gallons of water (0.5% to 0.75% v/v). Use the full adjuvant rate when making an application in arid conditions, or during periods of hot dry weather and to larger weeds.

In tank mixtures with oil-based residual corn herbicides, a reduced rate of MSO at 2 quarts per 100 gallons of water (0.5% v/v) or HSMOC at 1 quart per 100 gallons of water (0.25% v/v) is recommended to minimize potential for temporary foliar necrosis in corn.

When tank-mixing IMPACT with surfactant-loaded glyphosate, MSO at rates of 2 to 4 quarts per 100 gallons of water (0.5% to 1.0% v/v) or HSMOC at rates of 1 to 2 quarts per 100 gallons of water (0.25% to 0.5% v/v) is recommended.

In situations, where glyphosate is used in a tank mixture for grass weeds not labeled for control with Impact, and in tank mixtures with any product prohibiting use of MSO or HSMOC or conditions of high temperature and very high humidity, COC at 1% v/v or NIS at 0.25% v/v may replace these adjuvants.



## **AND**

**2. NITROGEN FERTILIZER SOURCE:** Recommended nitrogen based fertilizers include urea ammonium nitrate (UAN; 28-32%) at 2.5 gallons per hundred gallons of water (2.5% v/v). Instead of a liquid fertilizer, dry spray grade ammonium sulfate (AMS) at 2.0 to 3.0 pounds per acre, or a liquid AMS product delivering 3.4 pounds per gallon of AMS, may be used. Use of AMS is strongly recommended as an additive where water hardness (high mineral content) is a concern. Use the full AMS rate when making an application in arid conditions, or during periods of hot dry weather and to larger weeds.

## **IV. MIXING ORDER**

Following are mixing order guidelines for IMPACT when tank-mixing with other recommended herbicides and components, including spray adjuvants and liquid fertilizers. Maintain tank agitation during the mixing process and continue agitation while spraying until the application is completed. In the event that the application is stopped and the tank mixture settles, it is critical to agitate the mixture thoroughly before spraying is resumed.

### **TANK-MIX PREPARATION:**

1. Fill spray tank  $\frac{1}{2}$  to  $\frac{3}{4}$  full with clean water and start agitation.
2. Add water-soluble PVA packet products, if included, and thoroughly mix until fully dissolved.
3. Add water-soluble additives, including dry or liquid nitrogen fertilizers such as AMS or UAN.
4. Add IMPACT herbicide.
5. Add other water-dispersible products such as dispersible granules, dry flowables, suspension concentrates, or liquid flowables.
6. Add water-soluble products.
7. Add emulsifiable concentrates, including MSO adjuvants.
8. Fill the remainder of spray tank with water and ensure thorough mixing of all products.

## **V. TANK MIX INFORMATION**

IMPACT is recommended to be used sequentially or tank mixed with other herbicides as part of a complete weed control program. Tank mix recommendations are for use only in states where the sequential or tank mix product and application site is registered. Refer to Crop Use Directions (Section VII) for more details and for specific tank mix restrictions. Read and follow the applicable Restrictions and Limitations (Section VI) and Directions for Use on all products included in any tank mix. The most restrictive labeling applies to tank mixes. Liquid fertilizer is not recommended as a carrier for in-crop applications of IMPACT herbicide in corn. Use only water as a carrier.

## **VI. RESTRICTIONS AND LIMITATIONS**

- Maximum use rate per year: Do not apply more than 0.044 lbs. of topramezone per acre or the equivalent of 2.0 fluid ounces of IMPACT per acre.
- DO NOT apply IMPACT within 45 days of corn harvest (fresh market sweet corn, silage, fodder, or grain).
- DO NOT graze or feed treated corn forage, silage, fodder, or grain for at least 45 days after an application of IMPACT.
- DO NOT apply this product through any type of irrigation system.

### **Table 3. ROTATIONAL CROP RESTRICTIONS**

The following rotational crops may be planted after uniformly applying IMPACT at the application rates in corn shown in the chart below. Do not plant earlier than the specified interval at the rates shown in the chart below, as crop injury could occur. Avoid over-applications by minimizing overlaps of spray swaths and by switching off spray boom when turning (end rows). In the event of a crop loss due to weather or other causes, any corn type can be replanted at any time following an application of IMPACT herbicide. If IMPACT was tank-mixed with other

herbicides, the label with the most restrictive replanting and crop rotation restrictions for these herbicides must also be followed.

Rotational Crop	Rotational Interval (Months)		
	IMPACT Application Rate (fl oz per acre)		
	0.5	0.75	1.0-2.0
Corn, sweet corn and popcorn (all types)	0	0	0
Sugarcane	0	0	0
Cereal grains (wheat, barley, oats, rye)	3	3	3
Grass, grown for seed and forage	3	3	3
Rice	3	3	3
Alfalfa	9	9	9
Cotton	9	9	9
Flax	9	9	9
Peanut	9	9	9
Potato	9	9	9
Sorghum	9	9	9
Soybean	9	9	9
Sunflower	9	9	9
Canola	9	9	18
Dry Bean (excluding cranberry bean)	9	9 <sup>1</sup>	18 <sup>2</sup>
Green Bean (including seed production)	9 <sup>3</sup>	9 <sup>3,4</sup>	18 <sup>5</sup>
Pea	9	9	18 <sup>2</sup>
Sugar beet	9 <sup>4</sup>	9 <sup>4</sup>	18 <sup>2</sup>
All Other Crops	18	18	18

<sup>1</sup> 18 month interval in MI, MN, MT, ND, SD, WI, and WY.

<sup>2</sup> 9 month interval in ID, OR, and WA.

<sup>3</sup> 18 month interval in ID, UT, and in area East of Cascade Mountains in OR and WA.

<sup>4</sup> 18 month interval in CO, MI, MN, MT, NE (Panhandle counties), ND, SD, WI, and WY.

<sup>5</sup> 9 month interval in area West of Cascade Mountains in OR and WA.

## VII. CROP USE DIRECTIONS

### CORN (Field, Pop, Seed and Sweet)

IMPACT can be selectively applied to emerged weeds in all corn types including conventional hybrids and all hybrids which contain herbicide-resistant traits. In addition, IMPACT may be applied on inbred lines used in field corn, popcorn and sweet corn seed production. Refer to seed company recommendations before application of IMPACT on inbred lines.

IMPACT may be used in tank mixtures or sequential applications with other herbicides that are registered for use in corn. If IMPACT is tank mixed with other products, follow the label restrictions (including adjuvant recommendations) for the most restrictive of the tank mix products. See Section III for adjuvant recommendations.

For best performance, a tank-mixture of IMPACT with atrazine at 0.25 to 1.5 pound per acre is recommended. Lower atrazine rates (0.25 to 0.5 pound per acre) provide enhanced control (takedown) of emerged weeds, while rates of 1.0 pound per acre and higher provide additional soil residual control and potentially a second effective mode of action to manage weed resistance.

**Table 4. TANK MIXTURES OR SEQUENTIAL APPLICATIONS**

IMPACT may be tank-mixed or applied sequentially with one or more of, but not limited to, the following corn herbicides:

Brand Name (EPA Reg. No.)	Active Ingredient
AAtrex® 4L herbicide (EPA Reg. No. 100-497)	Atrazine
Accent® Q herbicide (EPA Reg. No. 352-773)	Nicosulfuron
Aim® EC herbicide (EPA Reg. No. 279-3241)	Carfentrazone
Anthem® ATZ herbicide (EPA Reg. No. 279-3449)	Atrazine/pyroxasulfone/fluthiacet-methyl
Anthem® herbicide (EPA Reg. No. 279-3450)	Pyroxasulfone/fluthiacet-methyl
Basagran® herbicide (EPA Reg. No. 66330-413)	Bentazon
Bicep II Magnum® (EPA Reg. No. 100-817)	S-metolachlor/atrazine
Breakfree® NXT ATZ herbicide (EPA Reg. No. 352-893)	Acetochlor/atrazine
Breakfree® NXT herbicide (EPA Reg. No. 352-894)	Acetochlor
Buctril® 4EC herbicide (EPA Reg. No. 264-540)	Bromoxynil
Cadet® herbicide (EPA Reg. No. 279-3338)	Fluthiacet-methyl
Cinch ATZ herbicide (EPA Reg. No. 352-624)	S-metolachlor/atrazine
Cinch® herbicide (EPA Reg. No. 352-625)	S-metolachlor
Degree Xtra® herbicide (EPA Reg. No. 524-511)	Acetochlor/atrazine
DiFlexx® herbicide (EPA Reg. No. 264-1173)	Dicamba
Dual II Magnum® (EPA Reg. No. 100-818)	S-metolachlor
Durango® DMA herbicides (EPA Reg. No. 62719-556)	Glyphosate
Enlist Duo™ herbicide <sup>1</sup> (EPA Reg. No. 62719-649)	2,4-D choline/glyphosate
Enlist One® herbicide <sup>1</sup> (EPA Reg. No. 62719-695)	2,4-D choline
G-Max Lite™ herbicide (EPA Reg. No. 7969-200)	Dimethenamid-P/atrazine
Guardman Max® (EPA Reg. No. 7969-192)	Dimethenamid-P/atrazine
Harness® herbicide (EPA Reg. No. 524-473)	Acetochlor
Harness® Xtra herbicide (EPA Reg. No. 524-480)	Acetochlor/atrazine
Hornet® WDG herbicide (EPA Reg. No. 62719-315)	Clopyralid/flumetsulam
Impact CORE® herbicide (EPA Reg. No. 5481-648)	Acetochlor/topramezone
ImpactZ® herbicide (EPA Reg. No. 5481-612)	Atrazine/topramezone
Keystone® NXT (EPA Reg. No. 62719-671)	Acetochlor/atrazine
Liberty® 280 SL herbicide (EPA Reg. No. 7969-448)	Glufosinate-ammonium
Outlook® herbicide (EPA Reg. No. 7969-156)	Dimethenamid-P
Permit® herbicide (EPA Reg. No. 81880-2-10163)	Halosulfuron
Prowl® H2O herbicide (EPA Reg. No. 241-418)	Pendimethalin
Resource® herbicide (EPA Reg. No. 59639-82)	Flumiclorac
Roundup PowerMAX® (EPA Reg. No. 524-549)	Glyphosate
Sinate® herbicide (EPA Reg. No. 5481-637)	Glufosinate-ammonium/topramezone
Status® herbicide (EPA Reg. No. 7969-242)	Dicamba/Diflufenzopyr
Steadfast® Q herbicide (EPA Reg. No. 352-774)	Nicosulfuron/rimsulfuron
Stinger® herbicide <sup>1</sup> (EPA Reg. No. 62719-73)	Clopyralid
Surpass® NXT (EPA Reg. No. 62719-672)	Acetochlor
Warrant® herbicide (EPA Reg. No. 524-591)	Acetochlor
Zidua SC herbicide (EPA Reg. No. 7969-374)	Pyroxasulfone
Zidua® herbicide (EPA Reg. No. 7969-338)	Pyroxasulfone

<sup>1</sup>Use of additives specified in Section III above are either not specified and/or contain a cautionary statement on labels of these herbicides due to potential for crop injury, and should not be used in tank mixtures with IMPACT.

## VIII. BETWEEN CROP APPLICATION

### Fallow Weed Management

IMPACT may be used as a foliar application to control emerged broadleaf and grass weeds at any time of the year during the period following crop harvest and before the following crop is planted. The following crop may be planted after observing the required interval as defined in the Rotational Crop Restrictions section (Table 3). Several cover crops used to manage soil erosion, soil fertility, or soil moisture, and which will not be used for grazing or harvest, have shown tolerance to IMPACT and may be planted a minimum of 28 days following between-crop applications. Consult AMVAC representatives or university extension personnel for information on tolerance of specific cover crops.

### Application Rate and Timing

Apply IMPACT as a broadcast spray up to a rate of 2.0 fl oz/A. Best product performance is obtained when weeds are small and actively growing. Thorough coverage of existing weeds is essential, and higher spray volume may be needed for best performance. Sequential application may be made with a minimum of 14 days between applications, but DO NOT exceed the maximum cumulative (both corn and between crop application uses) amount of 2.0 fl oz/A of IMPACT per year.

## IX. SEQUENTIAL HERBICIDE COMBINATIONS AND USES

In addition to the control of many emerged broadleaf weeds, IMPACT controls or suppresses the growth of several emerged grass weed species. To target a broader spectrum of emerged grasses, IMPACT should be used as a sequential treatment following a residual grass herbicide, or premixtures of these products containing Group 3 or 15 herbicides such as Prowl<sup>®</sup> H<sub>2</sub>O, Bicep II Magnum, Dual II Magnum<sup>®</sup>, Harness<sup>®</sup>, Harness Xtra, or Zidua<sup>®</sup>. (EPA registration numbers can be found in Section VII.) IMPACT can also be used in sequential programs with registered burndown herbicides.

When IMPACT is used in sequential applications prior to or following other products containing Group 27 herbicides such as isoxaflutole (e.g., Corvus<sup>®</sup> (EPA Reg. No. 264-1066), Balance<sup>®</sup> Flexx™ (EPA Reg. No. 264-1067)), mesotrione (e.g., Callisto<sup>®</sup> (EPA Reg. No. 100-1131), Lexar<sup>®</sup> EZ (EPA Reg. No. 100-1414), Lumax<sup>®</sup> EZ (EPA Reg. No. 100-1442)), or tembotrione (e.g., Laudis<sup>®</sup> (EPA Reg. No. 264-860), Capreno<sup>®</sup> (EPA Reg. No. 264-1063)), use of a tank mix partner with a different effective mode of action is recommended at full use rate to reduce risk of selection for HPPD resistant weed biotypes.

## X. SCIENTIFIC NAMES OF WEEDS SPECIFIED IN THIS LABEL

Common Name	Scientific Name	Common Name	Scientific Name
Amaranth, Palmer	<i>Amaranthus palmeri</i>	Morningglory, ivyleaf	<i>Ipomoea hederacea</i>
Amaranth, Powell	<i>Amaranthus powellii</i>	Mustard, wild	<i>Sinapis arvensis</i>
Bindweed, Field	<i>Convolvulus arvensis</i>	Nightshade, Black	<i>Solanum nigrum</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>	Nightshade, Eastern	<i>Solanum ptycanthum</i>
Buckwheat, Wild	<i>Fallopia convolvulus</i>	Black Nightshade, Hairy	<i>Solanum sarrachoides</i>
Burcucumber	<i>Sicyos angulatus</i>	Panicum, Fall	<i>Panicum dichotomiflorum</i>
Canola, Volunteer	<i>Brassica</i> spp.	Panicum, Texas	<i>Panicum texanum</i>
Carpetweed	<i>Mollugo verticillata</i>	Pigweed, Prostrate	<i>Amaranthus blitoides</i>
Chickweed, Common	<i>Stellaria media</i>	Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>	Pigweed, Smooth	<i>Amaranthus hybridus</i>
Crabgrass, Smooth	<i>Digitaria ischaemum</i>	Pigweed, Tumble	<i>Amaranthus album</i>
Cocklebur, Common	<i>Xanthium strumarium</i>	Purslane, Common	<i>Portulaca oleracea</i>
Cupgrass, Woolly	<i>Eriochloa villosa</i>	Pusley, Florida	<i>Richardia scabra</i>
Dandelion	<i>Taraxacum officinale</i>	Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Devil's-claw	<i>Proboscidea louisianica</i>	Ragweed, Giant	<i>Ambrosia trifida</i>
Foxtail, Giant	<i>Setaria faberi</i>	Sandbur, Field	<i>Cenchrus longispinus</i>
Foxtail, Green	<i>Setaria viridis</i>	Shattercane	<i>Sorghum bicolor</i>
Foxtail, Yellow	<i>Setaria glauca</i>	Shepherd's-purse	<i>Capsella bursa-pastoris</i>
Galinsoga, Hairy	<i>Galinsoga ciliata</i>	Sida, Prickly	<i>Sida spinosa</i>
Goosegrass	<i>Eleusine indica</i>	Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Henbit	<i>Lamium amplexicaule</i>	Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Jimsonweed	<i>Datura stramonium</i>	Sunflower, Wild (common)	<i>Helianthus annuus</i>
Johnsongrass	<i>Sorghum halepense</i>	Thistle, Canada	<i>Cirsium arvense</i>
Kochia	<i>Kochia scoparia</i>	Thistle, Russian	<i>Salsola iberica</i>
Ladysthumb	<i>Polygonum persicaria</i>	Velvetleaf	<i>Abutilon theophrasti</i>
Lambsquarters, Common	<i>Chenopodium album</i>	Waterhemp, Common	<i>Amaranthus rudis</i>
Lettuce, Prickly	<i>Lactuca serriola</i>	Waterhemp, Tall	<i>Amaranthus tuberculatus</i>
Mallow, Common	<i>Malva neglecta</i>		
Mallow, Venice	<i>Hibiscus trionum</i>		
Marestail (Horseweed)	<i>Conyza canadensis</i>		
Millet, Wild-Proso	<i>Panicum miliaceum</i>		
Morningglory, entireleaf	<i>Ipomoea hederacea</i>		

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment.

**PESTICIDE STORAGE:** Store product in original container only. Store product in a cool, dry place. Do not store this product under wet conditions. If this product has been stored where freezing temperatures have occurred, agitate or mix contents of container well before use. Avoid cross-contamination with other pesticides.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.

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