



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

87290-80

Date of Issuance:

10/19/17

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Willowood Metribuzin 4SC

Name and Address of Registrant (include ZIP Code):

Anna Armstrong, Agent
Willowood, LLC
c/o Wagner Regulatory Associates, Inc
P.O. Box 640
Hockessin, DE 19707

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Debra Rate, Ph.D., Acting Product Manager 25
Herbicide Branch, Registration Division (7505P)

Date:

10/19/17

2. You are required to comply with the data requirements described in the DCI identified below:

a. Metribuzin GDCI-101101-1304

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, “EPA Reg. No. 87290-80.”

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 6/8/2017
- Alternate CSF 1 dated 6/8/2017
- Alternate CSF 2 dated 6/8/2017

If you have any questions, please contact Emily Schmid at 703-347-0189 or by email at schmid.emily@epa.gov.

Attachment

GROUP 5 HERBICIDE

Willowood Metribuzin 4SC

An herbicide for use to control certain grasses and broadleaf weeds in alfalfa and sainfoin, asparagus, carrots, field corn, garbanzo beans, lentils and peas, potatoes, soybeans, spring and winter barley and winter wheat, sugarcane, and tomatoes

Active Ingredient:	By Weight
Metribuzin*: 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one.....	41.0%
Other Ingredients:	59.0%
Total:	100.0%

*Contains 4 lb. active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If Swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If On Skin Or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-Hour Medical Emergency Assistance (Human or Animal) call: 1-800-222-1222 . For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) call CHEMTREC: 1-800-424-9300	
Note to Physician: Treat patient symptomatically.	
Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.	

[Optional referral statements when booklets and container labels are used:

See Panel for First Aid Instructions and booklet for complete Precautionary Statements and Directions for Use.

See label booklet for complete Precautionary Statements, Directions For Use, and Storage and Disposal.

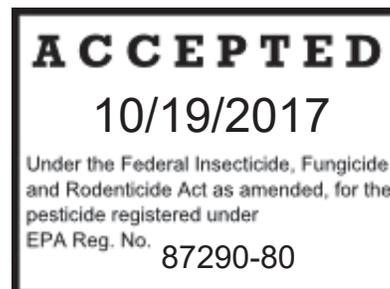
See label booklet for additional Precautionary Statements, Directions For Use, and Storage and Disposal.

See label booklet for complete Directions For Use.]

Manufactured By [For]:
Willowood, LLC
1600 NW Garden Valley Blvd. 120
Roseburg, OR 97471

EPA Reg. No.: 87290-IN
EPA Est. No.: _____

Net Contents: _____ [Gallons/Liters]



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not make application directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make application when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters.

Groundwater Advisory: Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate groundwater which may be used as drinking water. Metribuzin has been found in groundwater as a result of agricultural use. Users are advised not to make application of metribuzin where the water table (groundwater) is close to the surface, and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

PHYSICAL-CHEMICAL HAZARDS

Do not mix or allow coming into contact with oxidizing agent. Hazardous Chemical reaction may occur.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

RESISTANCE MANAGEMENT

Metribuzin is classified as a Group 5 herbicide. Some pests are known to develop resistance to herbicides that have been used repeatedly. While the development of weed resistance is well understood, it is not easily predicted. Therefore, herbicides should be used in conjunction with the resistance management strategies in the area. Consult the local or State agricultural advisors for details. If weed resistance should develop in the area, this product used alone may not continue to provide sufficient levels of pest control. If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high pest pressure, a resistant strain may have developed.

To reduce the potential for pesticide resistance, use this product in a rotation program with other classes of chemistry and modes of action. Always apply this product at the specified rates and in accordance with the use directions. Do not use less than specified label rates alone or in tank mixtures. Do not use reduced rates of the tank mix partner. For optimum performance, scout fields carefully and begin applications when pests are smaller rather than larger. If resistance is suspected, contact the local or State agricultural advisors.

INTEGRATED WEED PEST MANAGEMENT

Integrate **Willowood Metribuzin 4SC** into an overall weed management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

PRODUCT INFORMATION

Restrictions:

- Do not allow sprays to drift on to adjacent desirable plants.
- Make application of this product only as specified on this label.
- Do not use on other crops grown for food or forage. Observe all cautions and limitations on labeling of all products used in mixtures.
- Do not rotate any crop not listed on this label for 18 months following application of **Willowood Metribuzin 4SC**.
- **For All Uses:** Low-pressure, high-volume hand-wand equipment is prohibited.

Soil Types:

Fine: clay, clay loam, silty clay, silty clay loam (Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.)

Medium: silt, silty loam, loam, sandy clay, sandy clay loam

Coarse: sandy loam, loamy sand

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications. These requirements do not apply to forestry applications, public health uses or to applications of dry materials.

1. The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45°.
3. Observe the regulations of the State where applications are made if they are more stringent requirements than on this label.
4. Applicators must observe and abide by the requirements of the **SPRAY DRIFT MANAGEMENT**.

Droplet Size Information

Reduce drift potential by applying droplets of size >150 - 200 microns. The optimum drift management strategy is to apply the largest droplets that will provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift when applications are made improperly, or under unfavorable environmental conditions (See **Wind, Temperature and Humidity, and Temperature Inversions**).

Controlling Spray Droplet Size

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows usually produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – For aerial application, the recommended practice is to orient nozzles so that the spray is released parallel to the airstream. This orientation usually produces larger droplets as compared to other nozzle orientations. Significant nozzle deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types narrower spray angles produce larger droplets. Consider using low drift nozzles. Consider using low drift nozzles for both ground and aerial applications. Solid stream nozzles oriented straight back usually produce the largest droplets and the lowest drift potential in aerial applications.

Boom Length – For some aerial use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height – Aerial applications should not be made at a height greater than 10 feet above the top of the target plant canopy unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment – When aerial applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by the path of the aircraft upwind. Swath adjustment or offset distance should increase when conditions favor increased drift potential (higher winds, smaller droplets etc.).

Wind – Drift potentials are lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Applications in wind conditions outside of this range could increase the risk of off-target effects and should be avoided. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity – When making applications in conditions of low relative humidity set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions – Do not apply **Willowood Metribuzin 4SC** during temperature inversions because the drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the following morning. Their presence can be indicated by ground fog. However, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or a smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicate an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas – The pesticide should only be applied when the wind is blowing away from sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

MIXING INSTRUCTIONS

Prior to application of **Willowood Metribuzin 4SC**, make sure the sprayer is completely clean, free of rust or corrosion which results from winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides. Keep any tank-mix containing **Willowood Metribuzin 4SC** agitated and spray out immediately. Do not allow tank-mixes to stand for prolonged periods of time.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC Applied Alone or in Tank-Mix Combinations With Other Herbicides

- Fill the spray tank $\frac{1}{4}$ to $\frac{1}{2}$ full with clean water.
- Add specified rate of **Willowood Metribuzin 4SC** while recirculating and with agitator running.
- Follow the triple rinse procedure described under "**STORAGE AND DISPOSAL**" to ensure that all product is removed from the container.
- Mix thoroughly and add clean water to fill spray tank to desired level.
- Add other herbicides to tank last and mix thoroughly.
- Maintain agitation during application and until sprayer tank is empty.

CHEMIGATION

Willowood Metribuzin 4SC may be used for application through sprinkler irrigation equipment to potatoes, soybeans, tomatoes, and asparagus as directed on this label. See the crop sections of this label for specified rates, weeds controlled or suppressed, restrictions, and special precautions.

Apply this product only through sprinkler (including center pivot, lateral move, or solid set) irrigation systems. Do not make application of this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can occur from non-uniform distribution of treated water.

Calibration (Center Pivot and Self-Propelled Lateral Move Systems): Sprinkler irrigation systems must be calibrated accurately for application of **Willowood Metribuzin 4SC**. Greater accuracy in calibration (and distribution) will be attained by injecting a larger volume of a more dilute mixture of product and water per hour. Use the steps below to calibrate center pivot and lateral move systems:

1. Determine time (number of minutes) required to make one complete revolution while applying $\frac{1}{4}$ to $\frac{3}{4}$ inch of water per acre.
2. With the system at operating pressure, determine the exact number of minutes required to inject one gallon of water.
3. Divide the time required for one revolution (step 1) by the time required to inject one gallon (step 2). This gives total gallons of product-water mixture to be added to nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient **Willowood Metribuzin 4SC** at the specified rate (Refer to **Broadcast Applications**) to the nurse tank.

EXAMPLE: If 1,200 minutes (20 hours) were required for one revolution and if 2 minutes were required to inject one gallon, then a total of 600 gallons of product-water mixture are required ($1,200/2=600$); to treat 135 acres at 1 pt./acre, 135 pints (16 gallons and 7 pints) of **Willowood Metribuzin 4SC** are required.

- Contact the State Extension Service Specialist, equipment manufacturers or other experts if you have questions about calibration.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Maintain continuous agitation in the injection nurse tanks during the application, sufficient to keep herbicide in suspension.
- Make application at specified use rate in $\frac{1}{4}$ to $\frac{3}{4}$ inch of water ($\frac{1}{4}$ to $\frac{1}{2}$ inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems. Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness. Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To ensure that lines are flushed and free of remaining pesticide, an indicator dye may be injected into the lines to mark the end of the application period.
- Use a minimum of 1 part water to 1 part herbicide for injection. The use of a larger volume of water will ensure greater accuracy and more uniform distribution.

Application of Willowood Metribuzin 4SC With Herbicide Spray Equipment

Use a standard low pressure (20 to 40 PSI) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation.

Ground Application: Apply the proper rate of **Willowood Metribuzin 4SC** in a minimum of 10 to 40 gallons of spray mixture per acre broadcast.

Banded Application: Use proportionally less **Willowood Metribuzin 4SC** per acre in a band versus a broadcast application. For band application use $\frac{1}{4}$ to 1 gallon of spray mix per inch of band width regardless of row spacing.

EXAMPLES: (1) To treat a 15-inch band on rows 30 inches apart, use $\frac{1}{2}$ of the broadcast rate of **Willowood Metribuzin 4SC**. (2) To treat a 14-inch band on rows 42" apart, use $\frac{1}{3}$ of the broadcast rate of **Willowood Metribuzin 4SC**.

Aerial Application: Where permitted, make application at specified rate in a minimum of 2 to 10 gallons of spray mixture per acre. Do not apply aerially when wind speed is greater than 10 mph. **NOTE:** Do not make application by air when **Willowood Metribuzin 4SC** is tank-mixed with Lasso®.

For All Applications of Willowood Metribuzin 4SC: Sprayer must be calibrated accurately before applying **Willowood Metribuzin 4SC**. Check sprayer periodically throughout application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre, the importance of accurate calibration and uniform application increases. Avoid other application, misapplication, and boom and spray swath overlapping as these will increase spray use rate and crop injury may result. Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not make application when weather conditions favor spray drift and/or when sensitive or cool season crops, such as cole crops, onions, peas, or strawberries are present in adjacent fields or in areas where wheat is growing in coarse textured soils.

Sprayer Clean-Up: Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of **Willowood Metribuzin 4SC** from the spray tank and dispose of according to label

disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure two times. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away spray mixture from the outside of spray tank, nozzles, or spray rig. All rinse water must be disposed of in compliance with local, State, and Federal guidelines.

Application of Willowood Metribuzin 4SC in Fluid Fertilizers

Application of **Willowood Metribuzin 4SC** may be made in fluid fertilizer solutions to alfalfa and soybeans by following the appropriate mixing procedures and compatibility check. When using tank-mix combinations, be sure all components are compatible. Because there is variability in fertilizers, compatibility checks of tank-mix combinations that include **Willowood Metribuzin 4SC** should be made for each batch of fluid fertilizer.

Compatibility Check:

1. Pre-mix 2 teaspoons of **Willowood Metribuzin 4SC** with 8 teaspoons of water (1:4 ratio) in a quart jar by adding the water first and follow with **Willowood Metribuzin 4SC**. Mix thoroughly, if a second herbicide is to be used, double the amount of water (1:8 ratio) and add the second herbicide after mixing **Willowood Metribuzin 4SC** first.
2. Next pour 1 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.
4. Observe the mixture for signs of incompatibility.

THIS COMPATIBILITY CHECK SHOULD BE USED ONLY WHEN MIXING WITH FLUID FERTILIZERS.

Interpretation of Results: If the solution in the jar appears to be uniform, without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using double the amount of water or add a compatibility agent to the water. If separation occurs, but the mixture can be resuspended by shaking, then application is possible with good agitation in the spray tank.

Tank-Mix Guidelines:

1. Add the specified amount of water and compatibility agent (if required) to the tank. Begin agitation while adding **Willowood Metribuzin 4SC** and follow by adding the fluid fertilizer and agitate.
2. If a second herbicide is to be used, follow as above in 1, but use double the amount of water. Start agitation and add **Willowood Metribuzin 4SC** and follow by adding the second herbicide, and then continue filling the tank with fluid fertilizer.
3. Maintain continuous agitation to ensure uniform spray mixture until the tank is emptied.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Commercial Impregnation and Application of Willowood Metribuzin 4SC on Dry Bulk Fertilizer

Dry bulk fertilizer may be impregnated or coated with **Willowood Metribuzin 4SC** for application to established alfalfa and to soybeans. All directions, cautions, and special precautions on this label must be followed along with State regulations relating to dry bulk fertilizer blending, impregnating, and labeling.

Impregnation: To impregnate, use a system consisting of a belt, conveyor, or closed drum which is used for dry bulk fertilizer blending. Any commonly used fertilizer can be impregnated with **Willowood Metribuzin 4SC** except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Make application using a minimum of 200 lbs. dry bulk fertilizer per acre and up to a maximum of 450 lbs. per acre. To impregnate or coat dry bulk fertilizer, mix **Willowood Metribuzin 4SC** with sufficient water to form a sprayable slurry. The delivery nozzles must be directed to deliver a fine spray toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of **Willowood Metribuzin 4SC** to dry bulk fertilizer will vary and if the absorptivity is not adequate, an absorptive powder may be added to produce a dry, free-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder. When another herbicide is used with **Willowood Metribuzin 4SC**, mix and impregnate immediately. Make application immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

Rates: Determine the specified rate of **Willowood Metribuzin 4SC** per acre from the appropriate section of this label and use the formula below to calculate the amount of **Willowood Metribuzin 4SC** to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer that will be distributed on one acre.

$$\frac{\text{Pts. Willowood Metribuzin 4SC}}{\text{Per Acre}} \times \frac{2,000 \text{ Lbs. Fertilizer}}{\text{Per Acre}} = \frac{\text{Pts. Willowood Metribuzin 4SC}}{\text{Ton of Fertilizer}}$$

Application: Uniform application is essential for satisfactory weed control. Accurate calibration of fertilizer application equipment is essential for uniform distribution to the soil surface. The recommended method of application is to apply ½ the recommended rate and overlap 50% or to double apply by splitting the middles to obtain the best distribution pattern.

If fertilizer materials are excessively dusty, use diesel oil or other suitable additive to reduce dust before impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may result where the impregnated fertilizer is not uniformly applied.

Incorporation and Combination Uses: When **Willowood Metribuzin 4SC** is used in combination with another herbicide, follow directions on this label for combinations, rates, crops, incorporation, and special precautions.

ROTATIONAL CROP GUIDELINES¹

CROP	INTERVAL (Months)
Alfalfa, Asparagus, Barley ² , Corn, Forage Grasses, Sainfoin, Soybeans, Sugarcane, Tomatoes, Wheat ²	4
Barley, Lentils, Peanuts ⁴ , Peas, Wheat	8
Potatoes, Rice ³	12
Peanuts ⁵ , Sugar Beets, Onions and other root crops not listed on this label, and all other crops not listed on this label.	18

¹Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed. Stand reductions may occur in some areas.
²Following peas, lentils or soybeans.
³Do not rotate rice after any application to a primary crop greater than 1.0 lb. a.i./acre of **Willowood Metribuzin 4SC** per season.
⁴For a maximum application rate of 0.5 Lb. active ingredient/acre/season
⁵For application greater than 0.5 Lb. active ingredient/acre/season

Do not rotate any crop not listed on this label after treatment of **Willowood Metribuzin 4SC** to sugarcane.

The user must follow all use instructions, restrictions, precautions, directions for use, replanting and rotational crop guidelines on this and other product labels used in combination with **Willowood Metribuzin 4SC**.

CROP - USE DIRECTIONS

ALFALFA AND SAINFOIN

Willowood Metribuzin 4SC is labeled for use in alfalfa and sainfoin in the following areas:

- Alfalfa and sainfoin (including mixed stands with grasses) (all areas except California).
- Alfalfa and sainfoin (including mixed stands with grasses) (California only).
- Alfalfa - Tank-mix Combination with Gramoxone (Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou).
- Alfalfa - Post-Dormant Application of **Willowood Metribuzin 4SC** Impregnated on Dry Fertilizer Only (Connecticut, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Nebraska, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas and Wisconsin).

Willowood Metribuzin 4SC may be used in aerial or ground spray equipment as a broadcast surface application to established alfalfa and sainfoin for the control of certain broadleaf and grass weeds.

Application: See the “**PRODUCT INFORMATION**” section in the front of this label for detailed information on the application of **Willowood Metribuzin 4SC**. For information on applying **Willowood Metribuzin 4SC** in fluid or on dry fertilizer see the “**Application of Willowood Metribuzin 4SC in Fluid Fertilizers**” or “**Commercial Impregnation and Application of Willowood Metribuzin 4SC on Dry Bulk Fertilizer**” sections of this label.

Use Precautions - Alfalfa and Sainfoin

- For best weed control, make application of **Willowood Metribuzin 4SC** when weeds are less than 2” tall or before weed foliage is 2” in diameter.
- Reduced weed control may occur when extended dry conditions follow application of **Willowood Metribuzin 4SC**.
- Crop injury may occur when:
 - Crop is under stress conditions such as diseases, insect infestations, poorly drained soils, drought or winter injury at time of application.
 - Crop is treated within 12 months after seeding.
 - There is excessive irrigation or rainfall immediately after application. Do not make application of more than ½ inch of water in the first irrigation after **Willowood Metribuzin 4SC** is applied.

Use Restrictions - Alfalfa and Sainfoin

- Do not make application of **Willowood Metribuzin 4SC** after growth begins in the spring or before growth ceases in the fall, except as specified on this label.
- **Grazing and Pre-Harvest Interval (PHI):** Do not graze or harvest within 28 days after application.
- Use **Willowood Metribuzin 4SC** only on established alfalfa and sainfoin.

**ALFALFA AND SAINFOIN
(All Areas Except California)**

Broadcast Applications - Alfalfa and Sainfoin (Except California)	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
½ - 2	Select the proper use rate according to weeds known to be and present in field to be treated. On loamy sand soils in Oregon and Washington, do not apply more than 1 pt. of Willowood Metribuzin 4SC per acre.

For Use on Mixed Stands of Alfalfa and Grasses: Application rates of 1 to 1 ½ pts. of **Willowood Metribuzin 4SC** per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher rates will severely reduce forage grass stands. Do not use **Willowood Metribuzin 4SC** on sand soils. In areas West of the Rocky Mountains, avoid using **Willowood Metribuzin 4SC** on soils with calcareous surface area, high levels of lime or sodium, or a pH greater than 8.2.

Weeds Controlled - Alfalfa and Sainfoin (Except California)

Broadleaves	Willowood Metribuzin 4SC (Pts./Acre)
Chickweed, Common (<i>Stellaria media</i>)	½ - ¾
Brome, Downy (<i>Bromus tectorum</i>) Brome, Japanese (<i>Bromus japonicus</i>) Cheat (<i>Bromus secalinus</i>) Deadnettle, Purple (<i>Lamium purpureum</i>) Pennycress (<i>Thlaspi arvense</i>) Rescuegrass (<i>Bromus catharticus</i>) Shepherd's Purse (<i>Capsella bursa-pastoris</i>)	¾ - 1
Buckwheat, Wild (<i>Polygonum convolvulus</i>) Fleabane, Rough (<i>Erigeron strigosus</i>) Flixweed (<i>Descurainia sophia</i>) Henbit (<i>Lamium amplexicaule</i>) Kochia (<i>Kochia scoparia</i>) Lambsquarters, Common (<i>Chenopodium album</i>) Lettuce, Prickly (<i>Lactuca serriola</i>) Marestail (Horseweed) (<i>Hippuris vulgaris</i>) Meadow Salsify (<i>Tragopogon pratensis</i>) Mustard, Blue (<i>Chorispora tenella</i>) Mustard, Jim Hill (tumble) (<i>Sisymbrium altissimum</i>) Mustard, Tansy (<i>Descurainia pinnata</i>) Pepperweed (<i>Lepidium virginicum</i>) Pigweed, Redroot (<i>Amaranthus retroflexus</i>) White Cockle (<i>Melandrium album</i>) Yellow Rocket (<i>Barbarea vulgaris</i>)	1 - 2
Chickweed, Mouseear (<i>Cerastium vulgatum</i>) Dandelion (<i>Taraxacum officinale</i>) Ragweed, Common (<i>Ambrosia artemisiifolia</i>)	2
Grasses	Willowood Metribuzin 4SC (Pts./Acre)
Barley, Little (<i>Hordeum pusillum</i>) Brome, Smooth (<i>Bromus inermis</i>) Foxtail, Green (<i>Setaria viridis</i>) Oats, Wild (<i>Avena fatua</i>)	1 - 2
Barnyardgrass (<i>Echinochloa crus-galli</i>) Bluegrass (<i>Poa annua</i>) Foxtail Barley (<i>Hordeum jubatum</i>)	2
Weeds Partially Controlled: At the rate of 2 pts./acre Willowood Metribuzin 4SC may be used to reduce the competition from curly dock (<i>Rumex crispus</i>). At 1 to 2 pts./acre, Willowood Metribuzin 4SC may be used to reduce the competition of German Moss or knawel (<i>Scleranthus annuus</i>).	

**ALFALFA AND SAINFOIN
(California Only)**

(Including Mixed Stands With Grasses)

Willowood Metribuzin 4SC may be used in aerial or ground spray equipment as a broadcast surface application to dormant established crops of alfalfa and sainfoin.

Application: **Willowood Metribuzin 4SC** may be used in aerial or ground spray equipment as a broadcast surface application to dormant established crops of alfalfa and sainfoin for control of certain grass and broadleaf weeds. Do not make application of **Willowood Metribuzin 4SC** after growth begins in the spring or before growth ceases in the fall. Do not make application to either alfalfa or sainfoin during the first growing season after seeding.

Use Restrictions - Alfalfa and Sainfoin (California Only)

- Do not make application with aerial spray equipment when wind speed is greater than 10 mph.
- Do not make application when weather conditions favor spray drift and/or when sensitive cool season crops, such as cole crops, onions, peas, or strawberries, are present in adjacent fields.
- Do not make applications when weather conditions favor spray drift, especially in areas where wheat is growing on coarse textured soils in adjacent fields, or injury may occur.

For information on applying **Willowood Metribuzin 4SC** in fluid fertilizer solutions to alfalfa, see the appropriate section of this label. For information on Commercial Impregnation and application of **Willowood Metribuzin 4SC** on dry bulk fertilizer, see the appropriate section of this label.

Broadcast Applications - Alfalfa and Sainfoin (California Only)	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
¾ - 2	Select the appropriate use rate according to weeds known to be present in the field to be treated. Make application at specified use rate in 20 - 40 gals. of water per acre with ground spray equipment or 3 - 10 gals. of water per acre with aerial spray equipment fitted with nozzles suitable for broadcast applications of herbicides. Treat only dormant established crops of alfalfa and sainfoin. Injury may occur to alfalfa if Willowood Metribuzin 4SC is applied earlier than 12 months after seeding. Do not make application after Spring growth begins or before growth ceases in the Fall. Do not graze or harvest within 28 days after application. At the 2 pts./acre rate, Willowood Metribuzin 4SC may be used for suppression of curly dock.

For Use on Mixed Stands of Alfalfa and Grasses: Rates of 1 to 1 ½ pts. of **Willowood Metribuzin 4SC** per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa. Higher use rates will severely reduce forage grass stands.

Weeds Controlled - Alfalfa and Sainfoin (California Only)

Broadleaves	Willowood Metribuzin 4SC (Pts./Acre)
Cheatgrass (downy brome) (<i>Bromus secalinus</i>)	¾ - 1
Buckwheat, Wild (<i>Polygonum convolvulus</i>) Chickweed, Common (<i>Stellaria media</i>) Flixweed (<i>Descurainia sophia</i>) Henbit (<i>Lamium amplexicaule</i>) Kochia (<i>Kochia scoparia</i>) Meadow Salsify (<i>Tragopogon pratensis</i>) Mustard, Blue (<i>Chorispora tenella</i>) Mustard, Tansy (<i>Descurainia pinnata</i>) Pepperweed, Virginia (<i>Lepidium virginicum</i>) Shepherd's Purse (<i>Capsella bursa-pastoris</i>) White Cockle (<i>Melandrium album</i>) Yellow Rocket (<i>Barbarea vulgaris</i>)	1 - 2
Dandelion (<i>Taraxacum officinale</i>)	2
Grasses	Willowood Metribuzin 4SC (Pts./Acre)
Brome, Smooth (<i>Bromus inermis</i>) Oats, Wild (<i>Avena fatua</i>)	1 - 2
Barnyardgrass (<i>Echinochloa crus-galli</i>) Bluegrass (<i>Poa annua</i>) Foxtail Barley (<i>Hordeum jubatum</i>)	2

ALFALFA**Willowood Metribuzin 4SC plus Gramoxone Extra Tank-Mix**

Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming and the following California counties: Del Norte, Lassen, Modoc, Nevada, Plumas, Shasta, Sierra, and Siskiyou.

Application: **Willowood Metribuzin 4SC** plus Gramoxone Extra tank-mix application may be used during the dormant season, in air or ground spray equipment as a broadcast surface application to established (at least 1 year old) alfalfa for the control of certain grass and broadleaf weeds. Do not make application of **Willowood Metribuzin 4SC**/Gramoxone Extra tank-mix to regrowth (after grazing or cutting) that is more than 2" tall. Make application once per season. Do not make application following cuttings during growth season. Use a minimum of 10 gals. of water per acre with aerial spray equipment and a minimum of 20 gals. of water per acre with ground spray equipment. Add a non-ionic spreader at label rates to the spray solution.

For Use on Mixed Stands of Alfalfa and Grasses: Rates of 1 to 1 ½ pts. of **Willowood Metribuzin 4SC** per acre will provide partial reduction of forage grass stands. These rates may be used to reduce forage grass stands to prevent crowding out of alfalfa.

Use Precautions - Alfalfa (Willowood Metribuzin 4SC plus Gramoxone Extra Tank-Mix)

- In areas west of the Rockies, avoid the use of Willowood Metribuzin 4SC on soils with calcareous surface, soils with high levels of lime or sodium, and with a pH greater than 8.2.

Use Restrictions - Alfalfa (Willowood Metribuzin 4SC plus Gramoxone Extra Tank-Mix)

- Grazing and Pre-Harvest Interval (PHI):** Do not graze or harvest within 42 days after application.
- Do not make application when weather conditions favor spray drift.
- Do not make aerial application when wind speed is greater than 10 mph.
- Do not use on sand soil.

See the Gramoxone Extra label for additional directions, weed species controlled, restrictions and precautions.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Use Rate/Acre	Applications
Willowood Metribuzin 4SC $\frac{1}{2}$ - 1 $\frac{1}{2}$ pts. Plus Gramoxone Extra (refer to product label for use rates)	Make application at specified use rates of Willowood Metribuzin 4SC and Gramoxone Extra in at least 10 gals. of water per acre with aerial equipment or at least 20 gals. of water per acre with ground equipment. Do not make application of this tank mix to alfalfa growth if more than 2" tall. For best weed control, make application when broadleaf weeds and grasses are 1 - 6" tall and are actively growing. Care should be taken to avoid overlaps. Do not make application of more than 1 pt. of Willowood Metribuzin 4SC per acre on loamy sand soils. Reduced weed control may occur when extended dry conditions follow application of Willowood Metribuzin 4SC . Crop injury may occur if alfalfa is under stress conditions such as diseases, insect infestations, drought or winter injury or if Willowood Metribuzin 4SC is applied to alfalfa earlier than 12 months after seeding.

Willowood Metribuzin 4SC plus Gramoxone Extra (1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ pts./acre) tank-mix application will control established weeds. Gramoxone controls weeds by contact activity.

Weeds Controlled - Alfalfa - Willowood Metribuzin 4SC plus Gramoxone Extra Tank-Mix

Weeds Controlled	Willowood Metribuzin 4SC (Pts./Acre)
Chickweed, Common	$\frac{1}{2}$ - $\frac{3}{4}$
Bluegrass Brome, Downy Brome, Japanese Cheat Henbit Pennycress, Field Rescuegrass Shepherd's Purse	$\frac{3}{4}$ - 1 $\frac{1}{2}$
Barley, Little Brome, Smooth Buckwheat, Wild Fleabane, Rough Flixweed Foxtail, Green Groundsel Kochia Lambsquarters, Common Lettuce, Prickly Marestail (Horseweed) Meadow Salsify Mustard, Blue Mustard, Jim Hill Mustard, Tansy Oats, Wild Pigweed, Redroot Pepperweed Ryegrass Sowthistle White Cockle Yellow Rocket	1 to 1 $\frac{1}{2}$

Post-Dormant Application of Willowood Metribuzin 4SC Impregnated on Dry Fertilizer Only

Willowood Metribuzin 4SC may be applied after dormancy has broken, but before 3" of new alfalfa shoot growth, only when impregnated on dry fertilizer in Connecticut, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Nebraska, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas, and Wisconsin. Make application at rates of 1 $\frac{1}{2}$ to 2 pts.

per acre as directed on this label for application during dormancy. Make application only when alfalfa foliage is dry or crop injury may occur. When using this application method, do not harvest or graze treated alfalfa for 60 days after application.

ASPARAGUS (Established)

Willowood Metribuzin 4SC may be used in ground spray equipment or sprinkler irrigation (center pivot, lateral move, or solid set) systems as a single pre-emergence broadcast application or as a split application consisting of a pre-emergence broadcast application followed by a post-harvest broadcast application.

Application: See the “**Product Information**” section in the front of this label for detailed information on the application of **Willowood Metribuzin 4SC**.

Use Restrictions - Asparagus

- Do not exceed more than 4 pts. per acre per crop season.
- Application by air is prohibited.
- Do not use on newly seeded asparagus nor on young plants during the first growing season after setting crowns.
- DO NOT MAKE POST-HARVEST APPLICATIONS UNTIL AFTER THE LAST HARVEST OF SPEARS.

Weeds Controlled - Asparagus

Willowood Metribuzin 4SC applied to established asparagus according to directions, will effectively control:

Broadleaves	
Chickweed, Common (<i>Stellaria media</i>) Jimsonweed (<i>Datura stramonium</i>) Lambsquarters (<i>Chenopodium album</i>) Pigweed, Redroot (<i>Amaranthus retroflexus</i>)	Ragweed, Common (<i>Ambrosia artemisiifolia</i>) Smartweed, Pennsylvania (<i>Polygonum pensylvanicum</i>) Sorrel, Red (<i>Rumex acetosella</i>) Velvetleaf (<i>Abutilon theophrasti</i>)
Grasses	
Crabgrass (<i>Digitaria</i> spp.) Foxtails (<i>Setaria</i> spp.)	Sandbur, Field (<i>Cenchrus pauciflorus</i>)

Broadcast Applications - Asparagus	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
2 - 4	Pre-Emergence Application Only: Make a single surface application in early Spring before asparagus spears or ferns emerge. If the field is to be disked, make application of Willowood Metribuzin 4SC after disking but before the crop emerges. Use the lower labeled rate for control of the broadleaf weeds listed above. Use the higher labeled rate in fields with a history of severe infestations of grasses and for maximum residual control. Do not make application within 14 days of harvest.
Pre-Emergence 1 - 2 Plus Post-Harvest 2 - 3	Split Application Pre-Emergence Application: Make application before asparagus spears or ferns emerge. If the field is to be disked, apply after disking but before crop emergence. Do not make application within 14 days of harvest. Post-Harvest Application: Make application after last harvest of the season but before emergence. The lower combination rates may be used for control of common ragweed, lambsquarters, redroot pigweed, and red sorrel. Use the higher combination use rates for other weeds listed or in fields with severe grass infestations or for maximum post-harvest control of emerged weeds.

CARROTS

The following directions for use were developed under the direction of IR-4 (government minor crops use program). As such the testing was done independently from the testing program of Willowood, LLC, Buyer is advised that Willowood, LLC makes no assurances regarding satisfaction with the product and to the extent consistent with applicable law all risks of crop injury or product performance are assumed by the Buyer.

Make application of **Willowood Metribuzin 4SC** with ground equipment as specified in the below “**Applications**” table. For effective control of broadleaf weeds with post-emergence applications, make application of **Willowood Metribuzin 4SC** before weeds are 1 inch in height or diameter. Thorough spray coverage is essential for adequate weed control.

Use Precautions - Carrots

- Crop injury or delayed maturity may result from applications of **Willowood Metribuzin 4SC** if carrots are growing under stress conditions such as periods of drought or cool, wet and cloudy weather preceding application.
- Following an application of **Willowood Metribuzin 4SC**, chlorosis (yellowing) and burning of the leaf tissue may occur.
- For newly introduced varieties of carrots with unknown tolerance to **Willowood Metribuzin 4SC**, treat only a small area to determine if **Willowood Metribuzin 4SC** can be used without injury to the crop.

Use Restrictions - Carrots

- Do not exceed more than 1 pt. per acre per crop season.
- Do not make application to carrots grown for seed.
- Do not make application within 3 days after periods of cool, wet or cloudy weather or crop injury will occur.

- Do not make application of **Willowood Metribuzin 4SC** within 3 days of any other chemical unless specified on this label.
- Do not make application on very hot days or excessive crop injury will result.
- Do not make application until carrots have at least 5- to 6-true leaves. Earlier applications will result in excessive crop damage.
- Do not use air blast or other high pressure spray equipment to make post-emergence applications of **Willowood Metribuzin 4SC**. See the appropriate section of this label for additional information regarding spray equipment, dilution rates, mixing, sprayer clean-up, restrictions, container disposal and cautions. See “**Mixing Instructions**” under the “**PRODUCT INFORMATION**” section in the front of this label.

Weeds Controlled - Carrots

Willowood Metribuzin 4SC applied to carrots according to directions will effectively control:

Carpetweed (<i>Mollugo verticillata</i>) Galinsoga (<i>Galinsoga parviflora</i>) Horseweed (<i>Conyza canadensis</i>) Lambquarters, Common (<i>Chenopodium album</i>) Lettuce, Prickly (<i>Lactuca serriola</i>)	Mustard, Wild (<i>Sinapis arvensis</i>) Pigweed, Redroot (<i>Amaranthus retroflexus</i>) Pigweed, Smooth (<i>Amaranthus hybridus</i>) Pineappleweed (<i>Matricaria matricarioides</i>) Shepherd’s Purse (<i>Capsella bursa-pastoris</i>)
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Applications - Carrots	
Willowood Metribuzin 4SC (Pt./Acre)	Directions
½	Make application at specified use rate per acre as a broadcast spray over the tops of carrot plants. Make application after carrots have formed 5- to 6-true leaves but before weeds are 1 inch in height or diameter. If needed, a second application may be made after an interval of at least 3 weeks. Applications may be made up to 60 days of harvest.
The total amount of Willowood Metribuzin 4SC applied in one crop season must not exceed 1 pt. per acre.	

FIELD CORN

POST-EMERGENCE APPLICATION

Willowood Metribuzin 4SC may be used for control of selected broadleaf weeds when applied as a tank-mix combination with certain broadleaf herbicides presently registered and also for post-emergence use in field corn. Herbicides which may be tank-mixed with **Willowood Metribuzin 4SC** include:

2,4-D Atrazine Banvel®	Basagran® Buctril®/Buctril® Gel	Buctril® + atrazine (Premix) Clarity®	Laddok® S-12 Marksman®	Pursuit®* Resource®	Scorpion® III Tough®
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*Use only on Pursuit resistant/tolerant corn hybrids (IMI-Corn).

Application: Application of **Willowood Metribuzin 4SC** may be made to field corn after crop emergence until just before tasseling. Broadcast applications may be made with ground or aerial equipment. For optimum weed control, make application when weeds are small and actively growing, but before reaching the maximum heights listed in the **Weeds Controlled** table.

POST-EMERGENCE BROADCAST APPLICATION

Ground Application: Adjust nozzle height above crop and weed canopy to ensure uniform spray coverage. Gallonage should be increased with increasing weed size and population density.

For tank-mixes of **Willowood Metribuzin 4SC** plus atrazine, Basagran®, Laddok® S-12, Buctril®, Buctril® + atrazine, Pursuit®, Resource®, Tough®, or 2,4-D amine formulations, use flat fan nozzles spaced a maximum of 20” apart. Best results are achieved using a minimum spray volume of 10 gals. per acre and spray pressure from 20 to 40 PSI.

For **Willowood Metribuzin 4SC** tank-mixes with Banvel®, Clarity®, Marksman®, or 2,4-D low volatile ester formulations, use drift-reducing nozzles which are specifically designed to produce coarse sprays and reduce the amount of driftable fines. Additional measures which will help avoid potential drift to sensitive crops and plants include using a minimum spray volume of 20 gals. per acre and keeping spray pressures at or below 20 PSI unless otherwise specified by the nozzle manufacturer.

For further precautions and additional instructions and recommendations, consult the tank-mix partner’s label.

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Aerial Application: Make application in a minimum spray volume of 3 gals. per acre. For optimum spray coverage and distribution, use a minimum of 5 gals. per acre and a maximum pressure of 40 PSI. Use a boom and nozzle configuration which will provide a uniform deposition pattern and coverage with low drift potential. Avoid overlaps to prevent potential crop injury. Do not make application near sensitive crops or sensitive plants growing near the treated area. Do not make application when wind speed is greater than 10 mph or when winds are moving toward sensitive crops or plants. To avoid drift hazards, applicator must follow the most restrictive labeling of the products used in a tank-mix. See the appropriate tank-mix partner’s label for further precautions and recommendations.

POST-DIRECTED APPLICATION

Application of **Willowood Metribuzin 4SC** may be made in tank-mix combinations with Banvel®, 2,4-D, Buctril® or Scorpion® III as a post-directed spray to field corn. Use drop nozzles and appropriate spacing to direct spray below the corn whorl and upper leaves. The top of the target weed canopy must be sufficiently below the whorl and upper leaves of the crop to permit this application and provide adequate spray coverage. The height differential required between the crop and weed canopy will depend on the specific equipment used. Make application prior to tassel emergence. For further precautions and additional recommendations, see the appropriate tank-mix partner's label.

ADJUVANTS

The adjuvant types listed below may be utilized with certain **Willowood Metribuzin 4SC** tank-mix combinations. Consult the tank-mix recommendations section for the appropriate adjuvant and rate. Use of non-recommended adjuvants or rates may result in severe leaf burn, crop stunting, and/or stand reduction. Use only adjuvants which are exempt from tolerance requirements under 40 CFR 180.1001.

- **UAN** (urea ammonium nitrate) is commonly referred to as 28, 30, or 32%N.
- **Ammonium Sulfate** (spray grade) may be used as an alternative to UAN with certain tank-mix combinations.
- **Non-ionic Surfactants** should contain at least 80% active ingredient.

DO NOT USE crop oil concentrate (COC) or any adjuvant containing vegetable or petroleum oils with any **Willowood Metribuzin 4SC** tank mixtures as severe leaf burn, crop stunting, and/or stand reduction may occur.

BURNDOWN WEED CONTROL - FIELD CORN

Willowood Metribuzin 4SC can be used as part of a herbicide program for burndown of existing vegetation before crop emergence in conservation tillage systems. **Willowood Metribuzin 4SC** may be tank-mixed with 2,4-D low volatile ester (LVE), Gramoxone Extra, or Roundup/Roundup Ultra/Touchdown for control of emerged weeds before field corn emergence. **Willowood Metribuzin 4SC** burndown tank-mixes can be applied before planting or before crop emergence in the following areas: Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin.

Application: Application of **Willowood Metribuzin 4SC** may be made up to 30 days before planting or pre-emergence. Make application only by ground equipment when **Willowood Metribuzin 4SC** is used for burndown of existing vegetation in conservation tillage systems. **Willowood Metribuzin 4SC** and tank-mix partner burndown rates are listed in the following three tables.

Use Precautions - Field Corn (Burndown Weed Control)

- Corn seed should be planted a minimum of 1 ½" deep.
- **Willowood Metribuzin 4SC** may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to **Willowood Metribuzin 4SC**.

Use Restrictions - Field Corn (Burndown Weed Control)

- Do not make application of more than 8 oz. **Willowood Metribuzin 4SC** (0.25 lb. a.i.) per acre per growing season.
- Do not make application on coarse textured soils with less than 1.5% organic matter.
- Do not make application of more than 6 oz. of **Willowood Metribuzin 4SC** per acre on soils with less than 2% organic matter.
- Do not make application on soils having pH 7.0 or greater.
- Do not feed hay, forage, fodder or graze 2,4-D, Select, or Fusion treated vegetation.
- Do not make application of these treatments after crop emergence.
- **Pre-Harvest Interval (PHI):** Corn treated with **Willowood Metribuzin 4SC** may be harvested for silage or grain 60 days after treatment.
- Follow the most restrictive pre-harvest interval of all products used in a tank-mixture.
- Observe all precautions and limitations on the labeling of all products used in tank-mixtures. See the "**PRODUCT INFORMATION**" section of this label for additional information, precautions, restrictions, and limitations.

Willowood Metribuzin 4SC Burndown Rates - Field Corn		
States	Application Timing	Willowood Metribuzin 4SC (Oz./Acre)
Iowa, Kansas, Missouri, Nebraska, and South Dakota	Pre-Plant (0 - 30 days)	3 - 8
	Pre-Emergence	
Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio, and Wisconsin	Pre-Plant (10 - 30 days)	3 - 8
	Pre-Plant (0 - 9 days)	3 - 6
	Pre-Emergence	

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC Plus Tank-Mix Partner Burndown Rates - Field Corn		
Product¹	Willowood Metribuzin 4SC Rate¹	Directions & Remarks

Willowood Metribuzin 4SC + 2,4-D LVE	3 - 8 fl. oz./A*	Make application at least 7 days pre-plant or at least 3 days after planting but prior to corn emergence.
Willowood Metribuzin 4SC + Gramoxone® Extra	3 - 8 fl. oz./A*	Must be applied before crop emergence. Refer to the Gramoxone Extra label for amount to use in relation to weed height. Make application in 20 - 60 gals. of water/acre. Include either non-ionic surfactant at 1 qt. per 100 gals. (0.25% v/v) or crop oil concentrate at 1 gal. per 100 gals. (1% v/v) of spray solution.
Willowood Metribuzin 4SC + Gramoxone® Extra + 2,4-D LVE	3 - 8 fl. oz./A*	For this tank mix follow the Directions & Remarks sections above for Willowood Metribuzin 4SC + 2,4-D LVE and Willowood Metribuzin 4SC + Gramoxone Extra, paying special attention to crop planting restrictions with 2,4-D LVE. Include either non-ionic surfactant or crop oil concentrate in this tank mix.
Willowood Metribuzin 4SC + Roundup®/Roundup® Ultra or Touchdown®	3 - 8 fl. oz./A*	Must be applied before crop emergence. Use the higher use rates as weeds approach the maximum weed heights listed in the “ Weeds Controlled ” section below. Make application in 10 - 20 gals. of water per acre. With Roundup and Touchdown, include non-ionic surfactant at 2 qts. per 100 gals. (0.5% v/v) and ammonium sulfate (spray grade) at 17 lbs. per 100 gals. of spray solution. With Roundup Ultra, include ammonium sulfate (spray grade) at 17 lbs. per 100 gals. of spray solution. Any glyphosate formulation registered and labeled for use in field corn may be tank-mixed with Willowood Metribuzin 4SC .
Willowood Metribuzin 4SC + Roundup®/Roundup® Ultra or Touchdown® + 2,4-D LVE	3 - 8 fl. oz./A*	For this tank-mix follow the Directions & Remarks sections above for Willowood Metribuzin 4SC + 2,4-D LVE and Willowood Metribuzin 4SC + Roundup/ Roundup Ultra/Touchdown, paying special attention to planting restrictions with 2,4-D LVE. Use the adjuvant directions under the Willowood Metribuzin 4SC + Roundup/ Roundup Ultra/Touchdown tank mix. Do not use crop oil concentrate.
*If applied to field corn grown in Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio and Wisconsin, see the above “ Willowood Metribuzin 4SC Burndown Rates - Field Corn ” table for correct Willowood Metribuzin 4SC rate based on application timing. ¹ Refer to the respective registered product labels for use rates and additional product information.		

Weeds Controlled - Field Corn

Application of **Willowood Metribuzin 4SC** in tank-mixtures with the above herbicides will provide burndown control of the weeds listed in the table below.

Weeds Controlled by Burndown Rates of Willowood Metribuzin 4SC									
Weeds Controlled	Willowood Metribuzin 4SC + (plus)								
	2,4-D LVE	Poast Plus + 2,4-D LVE	Select + 2,4-D LVE	Fusion + 2,4-D LVE	Roundup/ Roundup Ultra/ Touchdown	Roundup/ Roundup Ultra/ Touchdown + 2,4-D LVE	Gramoxone Extra	Gramoxone Extra + 2,4-D LVE	2,4-DB
Annual Grasses	Maximum Burndown Height (Inches)								
Barley	Does not control these species.	-	-	-	8	8	4 - 6	4 - 6	Does not control these species.
Barnyardgrass		2 - 3	3 - 4	-	6	6	4 - 6	4 - 6	
Crabgrass spp.		2 - 3	-	-	6	6	4 - 6	4 - 6	
Foxtail spp.		2 - 3	3 - 4	2 - 6	8	8	4 - 6	4 - 6	
Johnsongrass, Seedling		2 - 3	-	-	8	8	4 - 6	4 - 6	
Panicum, Fall		2 - 3	3	2 - 6	6	6	4 - 6	4 - 6	
Sandbur, Field		-	-	-	8	8	4 - 6	4 - 6	
Shattercane		2 - 3	-	-	8	8	4 - 6	4 - 6	
Wheat, Volunteer		-	-	-	6	6	4 - 6	4 - 6	
Witchgrass		2 - 3	-	-	6	6	4 - 6	4 - 6	
Broadleaves	Maximum Burndown Height (Inches)								
Buffalobur	-	-	-	-	6	6	4 - 6	4 - 6	-
Chickweed, Common	6	6	6	6	6	8	4 - 6	4 - 6	2
Cocklebur, Common	6	6	6	6	6	8	4 - 6	4 - 6	6
Dandelion, Common	6 dia ¹	6 dia ¹	6 dia ¹	6 dia ¹	2 dia ²	6 dia ¹	4 dia ⁴	6 dia ¹	2 dia
Henbit	4	4	4	4	4	4	4 - 6	4 - 6	-
Horseweed (Marestail)	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	4 ²	6	3	6 ¹	2 ³
Jimsonweed	6	6	6	6	6	6	4 - 6	4 - 6	2
Kochia*	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4	4	4	4	-
Ladysthumb	6	6	6	6	6	8	4 - 6	4 - 6	3
Lambsquarters, Common	6	6	6	6	6	8	4 - 6	4 - 6	2
Lettuce, Prickly	6	6	6	6	4	6	4 - 6	4 - 6	2
Mallow, Venice	6	6	6	6	6	6	4 - 6	4 - 6	-
Morningglory spp.	6	6	6	6	2	4	2	4	4
Mustard spp.	6	6	6	6	6	8	4 - 6	4 - 6	2
Pennygrass, Field	6	6	6	6	6	6	4 - 6	4 - 6	2
Pigweed spp. (Annual)	6	6	6	6	6	8	4 - 6	4 - 6	3

Ragweed, Common	6	6	6	6	6 ²	8	4 - 6	4 - 6	2
Ragweed, Giant	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	4 ²	6	4	6	2
Shepherd's Purse	6	6	6	6	6	6	4 - 6	4 - 6	-
Sida, Prickly	6	6	6	6	4	4	4	4	1
Smartweed, Pennsylvania	6	6	6	6	6	8	4 - 6	4 - 6	3
Sunflower, Common	6	6	6	6	6	6	4 - 6	4 - 6	4
Thistle, Russian	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	2 - 4 ^{2,3}	4	4	4 - 6	3 ³
Velvetleaf	6	6	6	6	6	8	4 - 6	4 - 6	3
Waterhemp spp.	6	6	6	6	6	8	4 - 6	4 - 6	3

*Does not control triazine resistant weed biotypes.

¹Use 2,4-D LVE at 0.5 lb. a.i./acre.

²Refer to the respective Roundup/Roundup Ultra or Touchdown product labels for use rates and product information.

³Use **Willowood Metribuzin 4SC** at 4 oz./acre for optimum control.

⁴Suppression only.

RESIDUAL WEED CONTROL

Willowood Metribuzin 4SC burndown programs can be used as part of a full season weed control program when, 1) applied as a tank-mixture with residual herbicides, or 2) followed with a post-emergence weed control program, which is registered for use on the crop.

For residual control, **Willowood Metribuzin 4SC** burndown programs may include tank-mixes with the herbicides or combination of herbicides listed below:

Alachlor Atrazine Banvel® Bicep® Bicep® II	Bicep® Lite Broadstrike® + Metolachlor Broadstrike® Plus Bullet® Clarity®	Cycle® Metolachlor Frontier® Guardsman®	Harness® Lariat® Linex® Linuron Lorox®	Marksman® Pentagon® Prowl® Pursuit®* Pursuit® Plus*	Ramrod® Ramrod®/Atrazine Surpass® Surpass® 100 Topnotch®
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*Use only on Pursuit® resistant/tolerant corn hybrids (IMI-Corn).

See the individual product labels for additional information, precautions, restrictions, and limitations.

RAINFASTNESS

Willowood Metribuzin 4SC will not reduce rainfastness of the recommended tank-mix partners. See the individual product labels for rainfastness recommendations.

SPRAYER CLEAN-UP

See each tank-mix partner's label and the **Sprayer Clean-Up** section of the **Willowood Metribuzin 4SC** label for specific instructions on cleaning spray equipment. Give special attention to the required clean-up procedures for 2,4-D, Banvel®, Clarity®, and Marksman®.

Restrictions:

- Do not use on corn grown for seed, sweet corn, popcorn, or white corn.
- Do not make application of more than 0.25 lb. a.i. metribuzin (8 fl. oz. **Willowood Metribuzin 4SC**) per acre per use season.
- Do not make application when field corn is under stress (see **Stress** statement below).
- Do not use aerial applications if sensitive crops or plants are growing in the vicinity of the area to be treated.
- Do not allow spray drift onto sensitive crops or plants.
- Do not use on sand, loamy sand, or sandy loam soils that have less than 0.5% organic matter.
- Do not use on sand or loamy sand soils in Washington, Oregon, or Idaho or crop injury may occur.
- Observe all precautions and limitations on labeling of all products used in the tank-mixtures.

Feeding Restrictions:

- **Grazing and Pre-Harvest Interval (PHI):** Field corn treated with **Willowood Metribuzin 4SC** may be grazed or harvested for silage or grain 60 days after treatment.
- Observe the most restrictive pre-harvest interval on the labels of the products used in the tank-mixtures.

Stress is defined as any condition or combination of conditions which impairs normal crop growth. Weather, disease, insect damage, fertility or other factors may cause stress. Applications made before or after the corn is under stress from these factors or from periods of prolonged cool, wet and cloudy weather or widely fluctuating day and nighttime temperatures, may result in temporary leaf burn, yellowing and/or stunting of the crop. Recovery from damage is generally rapid with no lasting effects on new growth. Under extreme stress, stand reductions may occur.

TANK-MIX COMBINATIONS

The **Willowood Metribuzin 4SC** tank-mixtures listed below can be used for control of certain annual broadleaf weeds.

Willowood Metribuzin 4SC Post-Emergence Broadcast Rates - Field Corn		
Product ¹	Willowood Metribuzin 4SC Rate ¹	Directions & Remarks*

Willowood Metribuzin 4SC + 2,4-D Amine or 2,4-D LVE	3 fl. oz./A	Make application as a broadcast spray during the interval from corn emergence until corn is 8" tall. Make application only to varieties known to be tolerant to 2,4-D. DO NOT USE ADJUVANTS. 2,4-D may cause injury to nearby sensitive crops. 2,4-D applications may result in brittle corn stalks, and winds or cultivation may cause stalk breakage. To reduce damage, delay cultivation 8 to 10 days after application.
Willowood Metribuzin 4SC + Atrazine	3 fl. oz./A	Make application as a broadcast spray during the interval from corn emergence until corn is 12" tall. A non-ionic surfactant (1 qt./100 gals. of spray solution) may be added to improve weed control. Atrazine is a restricted use herbicide. Follow all State and Federal label recommendations and restrictions pertaining to atrazine applications.
Willowood Metribuzin 4SC + Banvel® or Clarity®	3 fl. oz./A	Make application as a broadcast spray during the interval from corn emergence through the 5-leaf stage or when corn is 8" tall, whichever occurs first. For Banvel applications to corn greater than 8" in height and for all applications with Banvel or Clarity, consult the Banvel and Clarity product label for use rates, additional information and restrictions. If growing conditions are dry and plants are stressed, addition of a non-ionic surfactant (1 qt./100 gals. of spray solution) may improve weed control. Application may cause injury to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage.
Willowood Metribuzin 4SC + Basagran®	3 fl. oz./A	Make application as a broadcast spray after corn emergence but before corn exceeds 30" in height and the crop canopy closes the row. Adjuvants such as UAN (0.5 - 1 gal./acre), ammonium sulfate (17 lbs./100 gals. of spray solution), or non-ionic surfactant (1 qt./100 gals. of spray solution) may improve weed control.
Willowood Metribuzin 4SC + Buctril® or Buctril® Gel	2.4 - 3 fl. oz./A	Make application as a broadcast spray when corn is in the fourth true-leaf stage or later but before the crop canopy closes the row. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. To reduce potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.
Willowood Metribuzin 4SC + Buctril® + atrazine (Premix)	2.4 - 3 fl. oz./A	Make application as a broadcast spray during the interval from corn emergence until corn is 12" tall. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. To reduce potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.
Willowood Metribuzin 4SC + atrazine	3 fl. oz./A	Apply as a broadcast spray after corn emergence until the corn is 12" tall. Adjuvants such as UAN (0.5 to 1 gal./A) may increase weed control. Atrazine is a restricted use product. Follow all state and federal label recommendations and restrictions pertaining to atrazine.
Willowood Metribuzin 4SC + Marksman®	3 fl. oz./A	Make application as a broadcast spray during the interval from corn emergence through the 5-leaf stage or when corn is 8" tall, whichever occurs first. DO NOT USE ADJUVANTS. Application may cause injury to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage. Marksman contains atrazine, and is a restricted use product. Follow all State and Federal label recommendations and restrictions pertaining to atrazine.
Willowood Metribuzin 4SC + Pursuit®	3 fl. oz./A	Use only on designated IMI-Corn hybrids (hybrids which are resistant/tolerant to Pursuit). Refer to the Pursuit product label for use rate and product information. Make application in combination with a non-ionic surfactant (1 qt./100 gals. of spray solution) and UAN (1 - 2 qts./acre).
Willowood Metribuzin 4SC + Resource®	3 fl. oz./A	Make application as a broadcast spray to field corn from 2-leaf through 10-leaf (visible leaf collars) stage. Adjuvants such as non-ionic surfactant (0.25% v/v), UAN (2% v/v) or ammonium sulfate (2.5 lbs./acre) may increase weed control.
*Consult the appropriate tank-mix partner's label for additional recommendations or restrictions. The most restrictive labeling applies to tank-mixes with Willowood Metribuzin 4SC .		
¹ Refer to the respective registered product labels for use rates and additional product information.		

Willowood Metribuzin 4SC Post-Directed Rates - Field Corn		
Product¹	Willowood Metribuzin 4SC Rate¹	Directions & Remarks*
Willowood Metribuzin 4SC + 2,4-D Amine or 2,4-D LVE	3 - 4.5 fl. oz./A	For corn greater than 8" tall, make application as a directed spray with drop nozzles before tassel emergence. Make application only to varieties known to be tolerant to 2,4-D. DO NOT USE ADJUVANTS. 2,4-D may cause injury to nearby sensitive crops. 2,4-D applications may result in brittle corn stalks, and winds or cultivation may cause stalk breakage. To reduce damage, delay cultivation 8 to 10 days after application.
Willowood Metribuzin 4SC + Banvel®	3 - 4.5 fl. oz./A	For corn 8 to 36" tall, make application as a directed spray with drop nozzles . Application may be made up to 15 days before corn tasseling. If growing conditions are dry and plants are stressed, addition of a non-ionic surfactant (1 qt./100 gals. of spray solution) may improve weed control. Refer to the Banvel product label for use rate and product information. Application may cause injury

		to nearby sensitive crops or plants. Application may result in temporary leaning of corn plants. Delay cultivation until plants return to normal growth patterns to avoid stalk breakage.
Willowood Metribuzin 4SC + Buctril or Buctril Gel	3 - 4.5 fl. oz./A	Make application as a directed spray with drop nozzles before tassel emergence. DO NOT USE ADJUVANTS. Occasional temporary corn leaf burn may occur and is similar to that observed from liquid fertilizers. Recovery is generally rapid with no lasting effect. To reduce potential for crop damage, application should be made to dry corn foliage when weather conditions are not extreme.
Willowood Metribuzin 4SC + Scorpion® III	3 - 4.5 fl. oz./A	For corn 8 to 24" tall, make application as a directed spray with drop nozzles. Include non-ionic surfactant (1 qt./100 gals.) plus UAN (2.5 gals./100 gals.) for optimum weed control.
*Consult the appropriate tank-mix partner's label for additional recommendations or restrictions. The most restrictive labeling applies to tank-mixes with Willowood Metribuzin 4SC .		
¹ Refer to the respective registered product labels for use rates and additional product information.		

These tank mixtures with **Willowood Metribuzin 4SC** will control the annual weeds listed below up to the maximum weed heights listed:

Weeds Controlled - Post-Emergence Broadcast Application of Willowood Metribuzin 4SC									
Weeds Controlled	Willowood Metribuzin 4SC + (plus)								
	Atrazine	Banvel/ Clarity	Basagran	Buctril/Buctril + atrazine	2,4-D	Marksman	Pursuit	Atrazine	Resource
	Maximum Weed Height (Inches)*								
Amaranth, Palmer	4 ¹	4	2 ¹	4 ¹	4	4	8 ²	6	4
Buckwheat, Wild	3	3	3	3	2	3	2	3	4
Buffalobur	4	4	-	4	-	4	1	-	-
Burcucumber	-	4	-	4	2	4	-	-	-
Carpetweed	2	2	2	2	2	2	-	2	3
Cocklebur, Common	8	8	8	8	8	8	8 ²	8	3
Eclipta	3	3	3	3	3	3	-	3	-
Henbit	3	3	2	2	2	4	3	3	-
Horseweed/Marestail	3	4	1	1	3	6	-	2	3
Jimsonweed	5	5	6	5	5	5	5	6	3
Knotweed	6	6	6	4	2	6	4	6	-
Kochia	2 ¹	2	1 ¹	2 ¹	2 ¹	2	2	2 ¹	-
Ladysthumb	6	6	6	6	4	6	4	6	4
Lambsquarters, Common	6 ¹	6	1	6	6	6	4	5	4
Lettuce, Prickly	4	4	-	3	4	5	-	3	-
Mallow, Venice	2	2	2	2	2	2	2	4	-
Morningglory, Entire Leaf	3	3	1	3	3	3	2	2	-
Morningglory, Ivyleaf	3	3	1	3	3	3	2	2	-
Morningglory, Pitted	3	3	1	3	3	3	2	2	-
Morningglory, Tall	3	3	1	3	3	3	2	2	-
Mustard, Tansy	4	4	4	4	4	4	4	4	-
Mustard, Wild	4	4	4	4	4	4	4	4	-
Nightshade, Black	6	6	-	6	1	6	3	1	-
Nightshade, Eastern Black	6	6	-	6	1	6	3	1	-
Pigweed, Redroot	6 ¹	6	2 ¹	6 ¹	6	6	8 ²	6 ¹	4
Pigweed, Smooth	6 ¹	6	2 ¹	6 ¹	6	6	8 ²	6 ¹	4
Poorjoe	3	3	3	3	3	3	3	3	-
Purslane, Common	1	3	-	-	-	4	1	-	-
Pusley, Florida	3	3	3	3	3	3	-	3	3
Ragweed, Common	5	5	3	5	5	6	3	4	3
Ragweed, Giant	4	5	2	4	3	6	4	4	-
Sicklepod	3	3	3	3	3	3	3	3	-
Sida, Prickly	1	1	3	1	1	2	1	2	2
Smartweed, Pennsylvania	6	6	6	6	4	6	4	6	4
Sunflower, Common	6	6	6	6	6	6	5	6	-
Thistle, Russian	1	3	-	3	1	3	1	1	-
Velvetleaf	6 ¹	6	6	6	4	6	5	6	6
Waterhemp, spp.	5 ¹	5	2 ¹	5 ¹	5	5	4 ²	2 ¹	4

*When weeds approach the maximum height listed, or are found in high densities, use the higher rate of **Willowood Metribuzin 4SC** and the selected tank mix partners.

¹These treatments will not control triazine-resistant weed biotypes.

²These treatments will not control ALS-resistant weed biotypes.

These tank-mixtures with **Willowood Metribuzin 4SC** will control the annual weeds listed below up to the maximum weed heights listed:

Weeds Controlled - Post-Directed Application of Willowood Metribuzin 4SC				
Weeds Controlled	Willowood Metribuzin 4SC + (plus)			
	2,4-D	Banvel	Buctril	Scorpion III
	Maximum Weed Height (Inches)*			
Amaranth, Palmer	12	12	6	8
Cocklebur, Common	12	12	12	15
Jimsonweed	12	10	10	8
Ladysthumb	6	8	6	6
Lambsquarters, Common	12	12	10	12
Morningglory, Entire Leaf	18	18	6	12
Morningglory, Ivyleaf	18	18	6	12
Morningglory, Pitted	18	18	6	12
Morningglory, Tall	18	18	6	12
Nightshade, Black	10	8	8	6
Nightshade, Eastern Black	10	8	8	6
Pigweed, Redroot	12	12	6	8
Pigweed, Smooth	12	12	6	8
Ragweed, Common	8	8	8	10
Ragweed, Giant	12	12	8	15
Smartweed, Pennsylvania	6	8	6	6
Sunflower, Common	12	12	12	12
Velvetleaf	10	8	8	8
Waterhemp, spp.	12	12	6	8

*When weeds approach the maximum height listed, or found in high densities, use the higher rate of **Willowood Metribuzin 4SC** and the selected tank mix partners.

PERENNIAL WEED SUPPRESSION

The tank-mixtures listed below will provide top growth burndown and in season suppression of the perennial weeds listed below; however, regrowth may occur. For the best performance on these weeds, use the maximum allowable use rates of **Willowood Metribuzin 4SC**, Banvel®, Buctril®, Buctril® + atrazine, Clarity®, Marksman®, 2,4-D LVE, or Pursuit® labeled for these tank-mixtures.

- **Willowood Metribuzin 4SC + Banvel or Clarity**
Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada
- **Willowood Metribuzin 4SC + Buctril or Buctril + atrazine**
Thistle, Canada
- **Willowood Metribuzin 4SC + 2,4-D LVE**
Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada
- **Willowood Metribuzin 4SC + Marksman**
Bindweed, field; Dandelion, common; Dock, curly; Smartweed, swamp; Thistle, Canada
- **Willowood Metribuzin 4SC + Pursuit**
Thistle, Canada

PRE-PLANT and PRE-EMERGENCE

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin

Willowood Metribuzin 4SC may be used for additional residual control of certain broadleaf weed species in corn when applied as a tank-mix combination with both grass and broadleaf herbicides registered and labeled for use in field corn. **Willowood Metribuzin 4SC** can be tank-mixed with specified rates of the following herbicides:

Alachlor Atrazine Banvel® Bicep® Bicep® II Bicep® Lite	Broadstrike® + Metolachlor Broadstrike® Plus Bullet® Clarity® Cycle®	Metolachlor Frontier® Guardsman® Harness® Harness® Extra	Lariat® Linex® Linuron Lorox® Marksman®	Pentagon® Prowl® Pursuit®* Pursuit® Plus* Ramrod®	Ramrod®/Atrazine Simazine Surpass® Surpass® 100 Topnotch®
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*Use only on Pursuit resistant/tolerant corn hybrids (IMI-Corn).

See the individual product labels for additional information, precautions, restrictions, and limitations.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application: Make application as a broadcast spray before corn emergence from the soil. **Willowood Metribuzin 4SC** may be applied to field corn pre-plant without incorporation up to 30 days before planting or pre-emergence. Applications may be made by either ground or aerial equipment. For heavy weed infestations and/or early pre-plant applications, use the higher rates of **Willowood Metribuzin 4SC**. For tank-mixes, follow the most restrictive application methods of all products used.

Restrictions:

- Do not make application of more than 0.25 lb. a.i. metribuzin (8 oz. **Willowood Metribuzin 4SC**) per acre per growing season.
- Do not make application on soils having pH 7.0 or greater.
- Do not make application of **Willowood Metribuzin 4SC** on coarse textured soils with less than 1.5% organic matter. Do not make application of more than 6 oz. **Willowood Metribuzin 4SC** per acre on soils with less than 2.0% organic matter.
- Corn seed must be planted a minimum of 1 ½" deep.
- **Willowood Metribuzin 4SC** may only be used in hybrid seed corn production fields if both inbred parents are known to be tolerant to **Willowood Metribuzin 4SC**.
- Do not use on muck soils as reduced weed control may result.
- Observe all precautions and limitations on labeling of all products used in tank-mixes.

Feeding Restrictions:

- **Grazing and Pre-Harvest Interval (PHI):** Corn treated with **Willowood Metribuzin 4SC** may be harvested for silage or grain 60 days after treatment.
- For tank-mixes, follow the most restrictive pre-harvest interval of all products used.

Weeds Controlled*: **Willowood Metribuzin 4SC** will aid in the residual pre-emergence control of the following weed species when tank-mixed with other registered grass and/or broadleaf corn herbicides:

Horseweed/Marestail Ladysthumb Lambsquarters, Common	Pigweed spp. Ragweed, Common	Smartweed, Pennsylvania Sunflower	Velvetleaf Waterhemp, Tall
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*For control of emerged weeds see the "Burndown Weed Control" section.

Willowood Metribuzin 4SC Rates - Field Corn		
States	Application Timing	Willowood Metribuzin 4SC (Oz./Acre)
Iowa, Kansas, Missouri, Nebraska, and South Dakota	Pre-Plant (0 - 30 days)	3 - 8
	Pre-Emergence	
Illinois, Indiana, Kentucky, Michigan, Minnesota, Ohio, and Wisconsin	Pre-Plant (10 - 30 days)	3 - 8
	Pre-Plant (0 - 9 days)	3 - 6
	Pre-Emergence	

**GARBANZO BEANS
(Chickpeas)**

California, Idaho, Oregon, and Washington

The following directions for use were developed under the direction of IR-4 (government minor crops use program). As such the testing was done independently from the testing program of Willowood, LLC. Buyer is advised that Willowood, LLC makes no assurances regarding satisfaction with the product and to the extent consistent with applicable law all risks of crop injury or product performance are assumed by the Buyer.

Willowood Metribuzin 4SC may be used as a pre-emergence application for the suppression of certain broadleaf weeds in garbanzo beans.

Use Precautions - Garbanzo Beans

- Crop injury may result if crop is under stress conditions caused by cold weather, poor soil fertility, disease or insect damage.
- Crop injury may result if application is followed by heavy rain. Avoid application of more than ½ inch of irrigation within one month after application of **Willowood Metribuzin 4SC**, or crop injury may occur.
- Maintain continuous spray tank agitation to keep material in suspension. Avoid overlapping of spray swaths and shut off spray booms while turning, slowing or stopping, or crop injury will occur.
- This treatment may cause some chlorosis or minor necrosis. Because garbanzo bean varieties may vary in their susceptibility to **Willowood Metribuzin 4SC**, determine crop tolerance before adoption as a field scale practice to prevent possible injury.

Use Restrictions - Garbanzo Beans

- Do not use on clay knobs or poorly covered subsoils.
- Do not make application pre-emergence on shallow seedings less than 2" deep.
- **Grazing and Pre-Harvest Interval (PHI):** Do not graze or feed treated vines to livestock within 40 days after application.

Weeds Suppressed - Garbanzo Beans

Suppression is defined as a reduction in weed size and growth compared to a non-treated area in the same field. **Willowood Metribuzin 4SC** used alone will not control triazine-resistant weed species.

Chickweed, Common Dog Fennel (Mayweed) Henbit Lambsquarters, Common	Mustard, Wild Pennycress, Field Pigweed Shepherd's Purse
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Applications - Garbanzo Beans	
Willowood Metribuzin 4SC (Pt./Acre)	Directions
½ - ¾	<p>Make application at specified use rate in a single pre-emergence application using 10 to 40 gals. of water per acre with ground spray equipment. Make application before or after planting but before crop emergence. Thorough incorporation, either by rainfall or by mechanical means, is essential for weed suppression. Under dry conditions, incorporate Willowood Metribuzin 4SC into the top 1 to 2" of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to ensure uniform soil incorporation. Where soil surface is moist at the time of application and rain follows before weed emergence, a broadcast application should provide adequate weed suppression.</p> <p>Use on coarse-textured soils, sandy soils or any soil with less than 1.5% organic matter will likely cause crop injury.</p> <p>Use the higher rate on fine textured soils (high in clay or organic matter) and in fields with a history of high weed populations.</p>

LENTILS AND PEAS

Idaho, Oregon, and Washington

Willowood Metribuzin 4SC may be used as a pre-emergence and post-emergence application for the suppression of certain broadleaf weeds in lentils and peas.

Use Precautions - Lentils and Peas

- Maintain continuous spray tank agitation to keep material in suspension. Avoid overlapping and shut off spray booms while turning, slowing or stopping, or crop injury will occur.
- This treatment may cause some chlorosis or minor necrosis. Because lentil and pea varieties may vary in their susceptibility to **Willowood Metribuzin 4SC**, determining crop tolerance before adoption as a field scale practice is suggested to prevent possible injury.
- For additional precautions, restrictions, limitations, and sprayer clean-up information see the appropriate sections of this label.

Use Restrictions - Lentils and Peas

- Do not make application of more than 1 pt. **Willowood Metribuzin 4SC** per acre per year. Crop injury may result if crop is under stress conditions caused by cold weather, low fertility, disease or insect damage. Crop injury may also result if application is followed by heavy rain.
- Do not use on coarse-textured soils, sandy soils or soils with less than 1.5% organic matter.
- Do not make application to "Estin" lentils.
- Do not use on clay knobs or poorly covered subsoils.
- Do not make application on shallow seedings less than 2" deep (pre-emergence only).
- **Grazing and Pre-Harvest Interval (PHI):** Do not make application within 50 days of harvest of peas, or within 75 days of harvest of lentils. Do not graze or feed treated vines to livestock within 40 days after application.

Weeds Suppressed - Lentils and Peas

Suppression is defined as a reduction in weed size and growth compared to a non-treated area in the same field.

Chickweed, Common*	Mustard, Wild
Corn Spurry	Pennycress, Field
Dog Fennel	Pigweed, Redroot
Henbit*	Pineapple Weed
Knotweed, Prostrate	Smartweed, Pennsylvania
Lambsquarters, Common	Shepherd's Purse*
*Pre-emergence application only.	

Pre-Emergence Application: Make a single pre-emergence application of **Willowood Metribuzin 4SC** at ½ to ¾ pt. per acre per crop year. Make application in 10 or more gals. of water per acre with ground spray equipment of 5 or more gals. of water per acre with aerial spray equipment. Make application of **Willowood Metribuzin 4SC** before or after planting. Thorough incorporation, either by rainfall or by mechanical means, is essential for weed suppression. Under dry conditions, incorporate **Willowood Metribuzin 4SC** into the top 1 to 2" of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to ensure uniform soil incorporation. Where soil surface is moist at the time of application and rain follows before weed emergence, a broadcast application should provide adequate weed suppression.

Use the higher rate on fine-textured soils (high in clay or organic matter) and in fields with a history of high weed populations.

Willowood Metribuzin 4SC may be applied pre- or post-plant incorporated as a tank-mix combination with FARGO 4EC. Follow the Directions for Use statements on both product labels.

Post-Emergence Application: One post-emergence application may be made per season. Use ¼ to ½ pt. of **Willowood Metribuzin 4SC** per acre on **lentils** and **spring peas**. On **winter peas**, use ¾ to ½ pt. of **Willowood Metribuzin 4SC** per acre. For suppression of dog

fennel, use ½ pt. **Willowood Metribuzin 4SC** per acre. Make application at specified use rate in 20 or more gals. of water per acre with ground spray equipment or 5 or more gals. of water per acre with aerial spray equipment. Do not exceed 40 PSI with ground spray equipment. Make application as a broadcast spray when weeds are small (less than 2" in height or diameter) and before crop is 6" tall.

Temporary chlorosis of the crop may occur. There is an added risk of crop injury if a post-emergence application is made following a previous pre-emergence or post-plant incorporated **Willowood Metribuzin 4SC** application.

Do not make application over very moist soils or wet crop foliage. Do not make application post-emergence applications within 3 days after periods of cool, wet, or cloudy weather or crop injury may occur.

Do not make application within 24 hours of treatment with other pesticides.

POTATOES

Willowood Metribuzin 4SC may be used in ground, aircraft or specified chemigation equipment as a pre-emergence and/or post-emergence application to potatoes. Early maturing smooth skinned white and all red skinned varieties may be injured with post-emergence applications. The varieties Atlantic, Bellchip, Centennial, Chipbelle and Shepody are sensitive to **Willowood Metribuzin 4SC**. Avoid post-emergence applications on these varieties. Pre-emergence applications on these varieties may cause crop injury under adverse weather conditions, on coarse soils, under high soil pH, with higher rates per acre and with mechanical incorporation.

Ground Application: Willowood Metribuzin 4SC may be used with ground spray equipment applied as a pre-emergence and/or post-emergence application for control of the listed grass and broadleaf weeds in potatoes. Make application as a uniform broadcast spray at 20 or more gals. per acre.

Aerial Application: Willowood Metribuzin 4SC may be applied in aerial spray equipment as a pre-emergence and/or post-emergence application at 5 or more gals. per acre.

Chemigation: Willowood Metribuzin 4SC may be applied pre-emergence and/or early post-emergence to potatoes using center pivot, solid set and lateral roll systems. Make application at specified use rate in ¼ to ¾ inch of water per acre (¼ to ½ inch on sandy soil) as a continuous injection in self-propelled systems or Make application in the last 15 to 30 minutes of the set in other systems. Be sure all the **Willowood Metribuzin 4SC** has been flushed from the lines before shutting down the system.

Use Precautions - Potatoes

- Post-emergence applications may cause some chlorosis or minor necrosis. These symptoms may be more severe if seed-piece decay is occurring or if growing conditions favor crop stress.
- Post-emergence applications may be made only on russet or white skinned varieties that are not early maturing. Potato varieties may vary in their response to herbicide applications. When using **Willowood Metribuzin 4SC** for the first time on a particular variety, always determine crop tolerance before using on a field scale.
- Certain spring and winter barley, and winter wheat varieties are sensitive to **Willowood Metribuzin 4SC** (see that section of this label for sensitive varieties) and should not be planted during the next growing season unless the following cultural practices occur:
 - Potato vines left in rows as a result of harvest must be uniformly distributed over the soil surface before plowing and,
 - Plow with a moldboard plow to a depth sufficient to mix the upper 8" of soil.

Use Restrictions - Potatoes

- Do not use **Willowood Metribuzin 4SC** on potatoes in Kern County, California.
- Do not make application of more than a total of 2 pts. **Willowood Metribuzin 4SC** per acre in a single crop season regardless of the method of application.
- Do not make post-emergence applications before rainfall or irrigation on recently cultivated potatoes, nor within 3 days after periods of cool, wet cloudy weather or injury may occur.
- **Pre-Harvest Interval (PHI):** Do not make application of **Willowood Metribuzin 4SC** within 60 days of harvest.
- Do not use air blast sprayers.
- Do not make application to sweet potatoes or yams.
- Do not rotate any crop not listed on this label for 18 months following application.

Weeds Controlled - Potatoes

Willowood Metribuzin 4SC applied to potatoes according to directions, will provide economic control of the following weeds. For optimum control, applications should be made before weeds are 1 inch tall.

Broadleaves	
Carpetweed, Common ¹	Pennycress, Field ^{1,2}
Cocklebur, Common ^{1,2}	Pigweed, Redroot ^{1,2}
Jimsonweed ¹	Pigweed, Smooth ^{1,2}
Kochia ³	Ragweed, Common ^{1,2}
Lambsquarters, Common ^{1,2}	Shepherd's Purse ¹
Mustard, Indian ¹	Sicklepod ¹
Mustard, Tansy ¹	Smartweed, Pennsylvania ^{1,2}
Mustard, Tumble ¹	Sunflower, Common ³
Mustard, Wild ¹	Thistle, Russian ²
Grasses	

Barnyardgrass ³ Crabgrass, Large ¹ Crabgrass, Smooth ¹ Foxtail, Giant ¹ Foxtail, Green ¹	Foxtail, Yellow ¹ Johnsongrass, Seedling ¹ Panicum, Fall ¹ Signalgrass, Broadleaf ¹
¹ Weeds controlled with pre-emergence applications. ² Weeds controlled with post-emergence applications. ³ Weeds requiring 2 applications for control.	

Hard-to-Control Weeds - Potatoes

Although **Willowood Metribuzin 4SC** may not provide commercially acceptable control in every instance, it will suppress growth of the weeds listed below and reduce their competition with potato plants. Where triazine-resistant weeds are present, **Willowood Metribuzin 4SC** alone may not provide adequate control.

Broadleaves	Grasses
Kochia Nightshade, Hairy Purslane, Common Sunflower, Common	Barnyardgrass Nutsedge, Yellow

Broadcast Applications - Potatoes	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
½ - 2	Pre-Emergence Application: Make application at specified use rate as a broadcast spray. Use the ½ - 1 pts./Acre rate for control of wild mustard (<i>Brassica</i> spp.) only. On sand soils or sensitive varieties, do not exceed 1 pt./acre. Do not mechanically incorporate into soil. Use the ½-1pts/Acre rate on potatoes (except on early maturing smooth skinned, red skinned, and other specified varieties).
½ - 1	Post-Emergence Application: Make application at specified use rate as a broadcast spray over the tops of potato plants. Use rates of ½ to 1 pt./acre for control of redroot pigweed and common lambsquarters only. Make application of the 1 pt./acre rate for control of other weeds listed on this label. Split Application: This product may be applied once pre-emergence and once post-emergence as directed above. Do not exceed 2 pts. total per acre per season. Idaho, Oregon, and Washington Only: Two post-emergence applications can be made as broadcast sprays over the tops of potato plants if Willowood Metribuzin 4SC is applied pre-emergence. Use ½ to 1 pt./acre for control of redroot pigweed and lambsquarters only. On coarse (sandy) soils with low organic matter do not exceed ¾ pt./acre per application. On medium and heavy soils only, use 1 pt./acre per application for control of other weeds listed on this label and for suppression of hairy nightshade. Make the first application early in the season while weeds are still small. Allow at least 14 days before the second application. Do not make application after June 30 if treated land is to be planted to crops other than potatoes.

Tank-Mixes - Potatoes

Willowood Metribuzin 4SC may be tank-mixed with the following herbicides: registered metolachlor-containing products, Eptam, Prowl 3.3 EC, and Matrix. In addition, three-way tank-mix combinations may be used for **Willowood Metribuzin 4SC** plus registered metolachlor-containing product, Eptam or Prowl 3.3 EC plus Matrix when applied pre-emergence.

See each product's label for precautionary statements, restrictions, application information and weeds controlled. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture

- Metolachlor-containing products: **Willowood Metribuzin 4SC** may be made in a tank-mix combination with registered metolachlor-containing products as a pre-emergence broadcast treatment. Make application of **Willowood Metribuzin 4SC** at ¾ to 2 pts. and the specified metolachlor product label use rate for use alone on potatoes.
- **Eptam:** **Willowood Metribuzin 4SC** may be tank-mixed with Eptam at rates and uses permitted on each product's label.
- **Prowl 3.3 EC:** **Willowood Metribuzin 4SC** may be applied in tank-mix combination with Prowl as a pre-emergence or early post-emergence broadcast application. As a pre-emergence mix, make application of **Willowood Metribuzin 4SC** at 1 to 2 pts. and Prowl at 1.2 to 3.6 pts. per acre. As an early post-emergence spray, make application of **Willowood Metribuzin 4SC** at ½ to 1 pt. and Prowl at 1.2 to 3.6 pts. per acre before the crop is in the 6-inch growth stage.
- **Matrix** (except the following counties in Colorado: Almosa, Conejos, Costillo, Rio Grande and Saguache): **Willowood Metribuzin 4SC** may be applied in tank-mix combination with Matrix as a pre-emergence and/or early post-emergence application for improved control on weeds such as Russian thistle, kochia, and common lambsquarters. As a pre-emergence mix, make application of **Willowood Metribuzin 4SC** at ½ to 1.125 pts. and Matrix at 1 to 1 ½ oz. product per acre. As an early post-emergence spray, make application of **Willowood Metribuzin 4SC** at ½ to 1 pt. and Matrix at 1 to 1 ½ oz. product per acre. Use a non-ionic surfactant at a rate of 0.125% v/v (1 pt./100 gals. of water). Make application before the crop exceeds 14" in height. Post-emergence applications of Matrix treatments should be made before June 30th.

Galinsoga (<i>Galinsoga</i> spp.)	C	C	C	C	C	C	C	C	C
Horseweed Maretail (<i>Conyza canadensis</i>)	0	0	0	0	0	0	0	0	0
Jimsonweed (<i>Datura stramonium</i>)	C	C	C	C	C	C	C	C	S
Knotweed (<i>Polygonum</i> spp.)	C	C	C	C	C	C	C	C	C
Kochia (<i>Kochia scoparia</i>)	C	C	C	C	C	C	C	C	C
Lambsquarters (<i>Chenopodium</i> spp.)	C	C	C	C	C	C	C	C	C
Mallow, Venice (<i>Hibiscus trionum</i>)	C	C	C	C	C	C	C	C	C
Morningglory, Ivyleaf (<i>Ipomoea hederacea</i>)	P	P	S	P	P	P	P	P	P
Morningglory, Pitted (<i>Ipomoea lacunosa</i>)	P	P	S	P	P	P	P	P	P
Morningglory, Smallflower (<i>Jacquemontia tamnifolia</i>)	P	P	C	P	P	P	P	P	P
Morningglory, Tall (<i>Ipomoea purpurea</i>)	P	P	S	P	P	P	P	P	P
Mustards, Wild (<i>Brassica</i> spp.)	C	C	C	C	C	C	C	C	C
Nightshade, Black (<i>Solanum nigrum</i>)	P	P	P	C	P	C	C	P	S
Pigweeds (<i>Amaranthus</i> spp.)	C	C	C	C	C	C	C	C	C
Prickly Sida/Teaweed (<i>Sida spinosa</i>)	C	C	C	C	C	C	C	C	C
Purslane (<i>Portulaca oleracea</i>)	C	C	C	C	C	C	C	C	C
Pusley, Florida (<i>Richardia scabra</i>)	C	C	C	C	C	C	C	C	C
Ragweed, Common (<i>Ambrosia artemisiifolia</i>)	C	C	C	C	C	C	C	C	C
Redweed (<i>Melochia corchorifolia</i>)	C	C	C	C	C	C	C	C	C
Russian Thistle (<i>Salsola kali</i>)	C	C	C	C	C	C	C	C	C
Sesbania (<i>Sesbania</i> spp.)	C	C	C	C	C	C	C	C	C
Shepherd's Purse (<i>Capsella bursa-pastoris</i>)	C	C	C	C	C	C	C	C	C
Sicklepod (<i>Cassia obtusifolia</i>)	C	C	S	C	S	C	C	S	S
Smartweeds (<i>Polygonum</i> spp.)	C	C	C	C	C	C	C	C	S
Spurge, Spotted (<i>Euphorbia maculate</i>)	C	C	P	C	P	C	C	P	0
Sunflower (<i>Helianthus</i> spp.)	C	C	S	S	S	S	C	S	P
Velvetleaf (<i>Abutilon theophrasti</i>)	C	C	C	C	C	C	C	C	C
Annual Grasses	1	2	3	4	5	6	7	8	9
Barnyardgrass (<i>Echinochloa crus-galli</i>)	S	C	C	C	C	C	C	C	C
Bluegrass (<i>Poa annua</i>)	C	C	C	C	C	C	C	C	C
Browntop Millet (<i>Panicum ramosum</i>)	C	C	C	P	C	S	C	0	0
Crabgrass (<i>Digitaria</i> spp.)	C	C	C	C	C	C	C	C	C
Crowfootgrass (<i>Dactyloctenium aegyptium</i>)	C	C	C	C	C	C	C	0	0
Cupgrass (<i>Eriochloa gracilis</i>)	P	C	P	P	P	P	C	0	0
Foxtails (<i>Setaria</i> spp.)	S	C	C	C	C	C	C	C	C
Goosegrass (<i>Eleusine indica</i>)	C	C	C	C	C	C	C	C	C
Johnsongrass, Seedling (<i>Sorghum halepense</i>)	C	C	C	C	C	C	C	C	0
Junglerice (<i>Echinochloa colonum</i>)	C	C	C	C	C	C	C	C	0
Nutsedge, Yellow (<i>Cyperus esculentus</i>)	P	P	P	C	P	C	C	P	0
Panicum, Fall (<i>Panicum dichotomiflorum</i>)	P	C	C	C	C	C	C	C	C
Panicum, Texas (<i>Panicum texanum</i>)	P	C	C	P	C	S	S	C	0
Red Rice (<i>Oryza sativa</i>)	P	C	C	C	P	C	C	0	0
Sandbur (<i>Cenchrus</i> spp.)	P	C	C	P	C	S	S	0	0
Shattercane (<i>Sorghum bicolor</i>)	P	C	C	P	P	P	P	C	0
Signalgrass, Broadleaf (<i>Brachiaria platyphylla</i>)	C	C	C	C	C	C	C	C	0
Sorghum, Volunteer (<i>Sorghum</i> spp.)	P	C	C	P	P	P	P	0	P
Sprangletop (<i>Leptochloa</i> spp.)	P	C	C	P	P	P	P	0	P
Stinkgrass (<i>Eragrostis</i> spp.)	P	C	C	P	P	P	P	0	P
Wheat, Volunteer (<i>Triticum</i> spp.)	P	P	P	P	P	P	P	0	P
Witchgrass (<i>Panicum capillare</i>)	P	C	C	C	C	C	C	C	0

Willowood Metribuzin 4SC Alone

Willowood Metribuzin 4SC (Alone) Pre-Emergence Application: The following rates of **Willowood Metribuzin 4SC** may be applied pre-emergence to soybeans through center pivot or lateral move sprinkler irrigation systems that apply water in a uniform manner. See the "CHEMIGATION" section of this label for directions.

Application of **Willowood Metribuzin 4SC** can be made broadcast or banded. This application may be made during planting or as a separate operation after planting but before crop emergence. See the "PRODUCT INFORMATION" section in the front of this label.

Do not make application to sand soils, or to sandy loam or loamy sand soils containing less than 2% organic matter. Do not incorporate into soil or make application more than once per season.

Pre-Emergence Applications			
Soil Texture	Willowood Metribuzin 4SC (Pts./Acre)		
	Organic Matter		
	Less than 2%	2 - 4%	Over 4%
Coarse Soils	DO NOT USE ³	¾	1

(Sandy loam, loamy sand)			
Medium Soils¹ (Loam, silt loam, silt, sandy clay, sandy clay loam)	¾ - 1	1 - 1 ¼	1 ¼ - 1 ½
Fine Soils¹ (Silty clay, silty clay loam ² , clay, clay loam)	1 - 1 ¼	1 ¼ - 1 ½	1 ½ - 1 ¾
Mississippi Delta Only	1 ½	1 ¾	2

¹For control of Lambsquarters, Redroot pigweed, and Wild mustard, and for suppression of Green, Yellow and Giant foxtails on alkaline (calcareous) soils in Nebraska, Minnesota, South Dakota, and North Dakota only, make application of **Willowood Metribuzin 4SC** at rates of ½ pt. per acre on medium soils and ½ - ¾ pt. per acre on fine soils regardless of soil organic matter percentage (use ¾ pt. only where soil pH is less than 7.5 and weed pressure is heavy). The ½ pt. per acre rate of **Willowood Metribuzin 4SC** alone can be applied regardless of soil pH. For control of other weeds listed on this label, use **Willowood Metribuzin 4SC** at full rates specified in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher.

²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

³See the appropriate section of this label for use of **Willowood Metribuzin 4SC** on soybeans in coarse soils with 0.5% or more organic matter in certain states.

Uses of Willowood Metribuzin 4SC in Combination With Other Herbicides

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sequential Application Of Scepter® Following Willowood Metribuzin 4SC

If needed, application of **Willowood Metribuzin 4SC** alone or in a registered tank-mix according to directions on this label, may be followed by an early post-emergence application of Scepter herbicide (refer to product label for use rate and other product information) for control of cocklebur. Do not use Scepter when soybeans or cockleburs have been subjected to stress conditions such as temperature or moisture extremes. Wait at least 10 days after application of Scepter before cultivating. When preparing the spray mixture with Scepter, add 2 pts. of non-ionic surfactant approved for use on growing crops and containing at least 80% active ingredient per 100 gals. of mixture. Apply crop oil concentrate (COC) at the rate specified on the COC label.

Use Scepter only in the states where it is registered as listed on the product label.

Grazing and Pre-Harvest Interval (PHI): Make application of Scepter at least 90 days before harvest of soybeans. Do not graze or feed soybean forage, hay, or straw to livestock.

See the Scepter label for additional cautions and precautions, directions, limitations, and information on environmental hazards and planting of rotational crops.

Split-Shot Applications: A pre-plant incorporated application of **Willowood Metribuzin 4SC** tank-mixed with either Treflan, Lasso, registered metolachlor-containing product, Prowl or Sonalan and followed by a pre-emergence surface application of **Willowood Metribuzin 4SC** alone after planting but before soybean emergence, will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone.

See the Treflan, Lasso, registered metolachlor-containing product, Prowl or Sonalan labels, and to appropriate sections of this label for directions on soil preparation, herbicide application, incorporation techniques, herbicide rates, weed species controlled, and restrictions for using tank-mix combinations of **Willowood Metribuzin 4SC**. Carefully observe the "Use Precautions - Soybeans" and "Use Restrictions - Soybeans" sections concerning the use of **Willowood Metribuzin 4SC** in tank-mix combinations on soybeans.

When a Split-Shot application of **Willowood Metribuzin 4SC** with Prowl, Treflan, or Sonalan is used, the pre-plant incorporated tank-mix may be applied up to 21 days before planting soybeans; with registered metolachlor-containing product, or Lasso, the pre-plant incorporated tank-mix may be applied up to 14 days before planting.

On medium and fine textured soils with greater than 2% organic matter, a rate range is given for the **Willowood Metribuzin 4SC** pre-emergence overlay application. The higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between pre-plant incorporated tank-mix and pre-emergence overlay applications approaches the maximum stated above, and/or (c) when the organic matter content of the soil is at the upper end of the indicated range.

For black nightshade control, see the appropriate sections of the Lasso, registered metolachlor-containing product, or Sonalan labels for specific instructions.

Split-Shot Applications							
Pre-Plant Incorporated Tank-Mix Application - Followed By - Pre-Emergence Overlay Application							
Soil Texture ¹	Rate of Combination Product/Acre ⁴	Plus	Willowood Metribuzin 4SC (Pt./Acre)	Followed By	Willowood Metribuzin 4SC (Pt./Acre)		
					Organic Matter		
					Less than 2%	2% - 4%	Over 4%
Coarse (light) Soils (Sand, loamy sand, sandy loam)	Treflan 1 pt. OR Lasso OR metolachlor OR Prowl OR Sonalan	Plus	½	Followed By	¼	¼	¼ - ½

Medium Soils (Loam, silt loam, sandy clay loam, silt, sandy clay)	Treflan OR Lasso OR metolachlor OR Prowl OR Sonalan	Plus	$\frac{3}{4}$ OR $\frac{1}{2}^2$	Followed By	$\frac{1}{4}$ $\frac{1}{2}$	$\frac{1}{4} - \frac{1}{2}$ $\frac{1}{2} - \frac{3}{4}$	$\frac{1}{2} - \frac{3}{4}$ $\frac{3}{4} - 1^3$
Fine (heavy) Soils (Silty clay loam*, clay loam, silty clay, clay)	Treflan OR Lasso OR metolachlor OR Prowl OR Sonalan	Plus	1 OR $\frac{3}{4}^2$	Followed By	$\frac{1}{4}$ $\frac{1}{2}$	$\frac{1}{4} - \frac{1}{2}$ $\frac{1}{2} - \frac{3}{4}$	$\frac{1}{2} - \frac{3}{4}$ $\frac{3}{4} - 1^3$

*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

¹On **coarse textured** soils, do not use on sand soils with less than 1% organic matter, or on loamy sand or sandy loam soils with less than 0.5% organic matter. However, on coarse textured soils **with calcareous surface area or a pH of 7.5 or higher**, do not use on sand soils with less than 2% organic matter, or on loamy soils with less than 1% organic matter.

²Use this lower rate of **Willowood Metribuzin 4SC** in the pre-plant incorporated tank mix **on soils having a calcareous surface area or a pH of 7.5 or higher**, and in those situations where soils within a field vary extremely in texture or organic matter content.

³Reduce this pre-emergence overlay rate of **Willowood Metribuzin 4SC** by $\frac{1}{4}$ pt. per acre when using Split-Shot application **on soils with over 4% organic matter and which have a calcareous surface area or a pH of 7.5 or higher**.

⁴Refer to the respective registered product label for use rates and additional product information.

Extended Split-Shot Applications (Includes No-Till, Reduced-Till, Ridge-Till, Strip-Till, Mulch-Till): An early pre-plant (surface-applied or shallow incorporated) application of **Willowood Metribuzin 4SC** tank-mixed with either a registered metolachlor-containing product or Lasso, followed by a pre-emergence surface application of **Willowood Metribuzin 4SC** tank-mixed with a registered metolachlor-containing product or Lasso after planting but before soybean emergence, will control more broadleaf and grass weeds in soybeans than either herbicide used alone.

An Extended Split-Shot application will decrease the need for tillage and/or contact herbicides for the control of existing vegetation before planting, while providing residual control of weeds after planting.

When an Extended Split-Shot application of **Willowood Metribuzin 4SC** with a registered metolachlor-containing product or Lasso is used, the pre-plant tank-mix combination may be made 15 to 30 days before planting soybeans. Follow directions on the label accompanying the product for Split-Shot applications from 0 to 14 days before planting.

Where a rate range is given, the higher rates should be used (a) in fields with a history of severe weed pressure, (b) when the time between early pre-plant tank-mix and pre-emergence overlay applications approaches the maximum 30 days, (c) when the organic matter content of the soil is at the upper end of the indicated range, (d) when heavy crop residues are present on the soil surface, and/or (e) when the early pre-plant tank-mix application is shallow incorporated (e.g. use 2 - 2 $\frac{1}{2}$ qts. Lasso in the early pre-plant tank-mix when surface applied and use 2 $\frac{1}{2}$ - 3 qts. Lasso when the tank-mix is to be lightly incorporated).

When weeds exceed 1 - 1 $\frac{1}{2}$ " in height or diameter at application, use a contact herbicide, such as Roundup® or Gramoxone.

See the registered metolachlor-containing product or Lasso label, and to appropriate sections of this label for additional information on soil preparation, herbicide application, weeds controlled, precautions, restrictions, limitations, and sprayer clean-up.

Extended Split-Shot Applications									
Early Pre-Plant Tank-Mix Application (Surface-Applied or Shallow Incorporated)				Followed By	Pre-Emergence Overlay Application				
Soil Texture ¹	Rate of Combination Product/Acre ³	Plus	Willowood Metribuzin 4SC (Pts./Acre)		Rate of Combination Product/Acre ³	Plus	Willowood Metribuzin 4SC (Pt./Acre)		
							Organic Matter		
						Less than 2%	2% - 4%	Over 4%	
Coarse (light) Soils (Sand, loamy sand, sandy loam)	metolachlor OR Lasso	Plus	$\frac{1}{2} - \frac{3}{4}$	Followed By	metolachlor OR Lasso	Plus	$\frac{1}{4}$	$\frac{1}{4} - \frac{1}{2}$	$\frac{1}{2}$
Medium Soils (Loam, silt loam, sandy clay loam, silt, sandy clay)	metolachlor OR Lasso	Plus	$\frac{3}{4}^2 - 1$	Followed By	metolachlor OR Lasso	Plus	$\frac{1}{2}$	$\frac{1}{2} - \frac{3}{4}$	$\frac{3}{4} - 1$
Fine (heavy) Soils (Silty clay loam*, clay loam, silty clay, clay)	metolachlor OR Lasso	Plus	$1^2 - 1 \frac{1}{4}$	Followed By	metolachlor OR Lasso	Plus	$\frac{1}{2}$	$\frac{1}{2} - \frac{3}{4}$	$\frac{3}{4} - 1$

*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

¹On **coarse textured** soils, do not use on sand soils with less than 1% organic matter. However, on coarse textured soils **with calcareous surface area or a pH of 7.5 or higher**, do not use on sand soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

²Use this lower rate of **Willowood Metribuzin 4SC** in the early pre-plant tank-mix **on soils having a calcareous surface area or a pH of 7.5 or higher**, and in those situations where soils within a field vary extremely in texture or organic matter content.

³Refer to the respective registered product label for use rates and additional product information.

Willowood Metribuzin 4SC plus Sonalan

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC plus Sonalan Overlay Application: Application of **Willowood Metribuzin 4SC** may be made as a pre-emergence overlay application following a pre-plant incorporated application of Sonalan 3 EC. See the Sonalan label for specific directions on use, recommendations, restrictions and any additional weeds not specified on this label.

Willowood Metribuzin 4SC plus Sonalan Tank-Mix Application: Incorporate the tank-mixture into the top 1 to 2" of soil within 21 days before planting according to label directions for Sonalan. Make application of **Willowood Metribuzin 4SC** plus Sonalan pre-plant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank-mixture after bed formation.

Mixing: See the "PRODUCT INFORMATION" section in the front of this label.

Application: Apply Sonalan uniformly and thoroughly mixed into the soil within 2 days after application. For specific application information, see the "PRODUCT INFORMATION" section in the front of this label.

See the appropriate sections of the Sonalan label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

For black nightshade control, see the Sonalan label for specific rates and application instructions.

Broadcast Rates		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Sonalan 3EC (Pts./Acre)
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils³ (Loam, silt loam, silt, sandy clay, sandy clay loam)	¾	Refer to product label for use rates.
Fine Soils³ (Silty clay, silty clay loam ² , clay, clay loam)	1	Refer to product label for use rates.
¹ Do not use on coarse soils with less than 1% organic matter. ² Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. ³ For control of Lambsquarters, Redroot pigweed, and Wild mustard, and for suppression of Green, Yellow and Giant foxtails on alkaline (calcareous) soils in Nebraska, Minnesota, South Dakota, and North Dakota only, make application of Willowood Metribuzin 4SC at rates of ½ pt. per acre on medium soils and ½ - ¾ pt. per acre on fine soils regardless of soil organic matter percentage (use ¾ pt. only where soil pH is less than 7.5 and weed pressure is heavy). The ½ pt. per acre rate of Willowood Metribuzin 4SC in tank-mix combination with Sonalan can be applied regardless of soil pH. For control of other weeds listed on this label, use Willowood Metribuzin 4SC at full rates specified in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher .		

Willowood Metribuzin 4SC plus Treflan

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC plus Treflan Overlay Application: Application of **Willowood Metribuzin 4SC** may be made as a pre-emergence broadcast or band overlay application following a pre-plant incorporated treatment of Treflan. See the Treflan label for specific directions for use, recommendations, restrictions and any additional weeds not listed on this label.

Willowood Metribuzin 4SC plus Treflan Tank-Mix Application: A single application of a tank-mix combination of **Willowood Metribuzin 4SC** and Treflan EC will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone. Prepare the soil surface by deep plowing, offset disking or tandem disking before the application of the herbicide combination. The soil surface should be well prepared and free of clods and trash. This **Willowood Metribuzin 4SC** plus Treflan tank-mix combination may be applied and incorporated into the soil up to 10 days prior to planting.

Mixing: See the "PRODUCT INFORMATION" section in the front of this label.

Application: For specific application information see the "PRODUCT INFORMATION" section in the front of this label. Make application of **Willowood Metribuzin 4SC** plus Treflan to the soil surface and incorporate in the same operation, if possible. Variable weed control may result from delayed incorporation if **Willowood Metribuzin 4SC** plus Treflan are applied to a wet, warm soil surface or if the wind

velocity is 10 mph or higher. Use machinery that mixes **Willowood Metribuzin 4SC** plus Treflan thoroughly with the soil. Incorporation may be delayed up to 24 hours after application. Shallow incorporation with implements set to cut less than 2" deep may result in erratic weed control. Do not use spike or spring-tooth harrows alone for incorporation.

Incorporation Equipment:

1. Set PTO-driven equipment (tillers, cultivators, hoes) to cut 2 to 3" deep and space rotors to provide a clean sweep of the soil. PTO equipment should not be operated at a speed greater than 4 mph.
2. Set disk to cut 4 to 6" deep and operate twice in different directions at 4 to 6 mph.
3. Set mulch treader and other similar disk-type implements to cut 3 to 4" deep and operate twice in different directions at 5 to 8 mph.

For Coarse and Medium Textured Soils Only:

4. Set rolling cultivator to cut 2 to 4" deep and operate twice at 6 to 8 mph. Set bed conditions (Do-All) to cut 2 to 4" deep and operate at 4 to 6 mph.

Use Precautions - Soybeans (Willowood Metribuzin 4SC plus Treflan)

- Seedling disease, cold weather, excessive moisture, high salt concentration or drought may weaken soybean seedlings and increase possibility of damage from the tank-mix.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Treflan)

- Do not plant soybeans deeper than 2".
- Do not use this tank-mix combination on soils containing charcoal in Arkansas, Louisiana, and Mississippi.
- Do not rotate any crop not listed on this label for 18 months following application.

See the appropriate sections of the Treflan label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Treflan EC (Pts./Acre)
Coarse Soils ¹ (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	¾	Refer to product label for use rates.
Fine Soils ³ (Silty clay, silty clay loam ² , clay, clay loam)	1	Refer to product label for use rates.
¹ Do not use on coarse soils with less than 1% organic matter. ² Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. ³ For control of Lambsquarters, Redroot pigweed, and Wild mustard, and for suppression of Green, Yellow and Giant foxtails on alkaline (calcareous) soils in Nebraska, Minnesota, South Dakota, and North Dakota only, make application of Willowood Metribuzin 4SC at rates of ½ pt. per acre on medium soils and ½ - ¾ pt. per acre on fine soils regardless of soil organic matter percentage (use ¾ pt. only where soil pH is less than 7.5 and weed pressure is heavy). The ½ pt. per acre rate of Willowood Metribuzin 4SC in tank-mix combination with Treflan can be applied regardless of soil pH. For control of other weeds listed on this label, use Willowood Metribuzin 4SC at full rates listed in the table above, but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher.		

Willowood Metribuzin 4SC plus Metolachlor

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC plus Metolachlor Overlay Application: Make a pre-plant incorporated treatment of a registered metolachlor-containing product as directed on that product label for use on soybeans. Follow with a pre-emergence treatment of **Willowood Metribuzin 4SC** as directed on this label for use on soybeans.

Willowood Metribuzin 4SC plus Metolachlor Tank-mix Applications

Pre-Plant Incorporated Application: Incorporate the tank-mixture into the top 2" of soil within 14 days prior to planting using a disk, harrow, rolling cultivator, or similar implement. Make application of **Willowood Metribuzin 4SC** plus a registered metolachlor-containing product pre-plant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank-mixture after bed formation.

Pre-Emergence Application: Dry weather following pre-emergence application of **Willowood Metribuzin 4SC** plus a registered metolachlor-containing product tank-mixture may reduce effectiveness. If weeds develop, cultivate uniformly with shallow tillage equipment such as a rotary hoe that will not damage soybeans.

Mixing: See the "PRODUCT INFORMATION" section in the front of this label.

See the appropriate sections of the registered metolachlor-containing product label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates		
Willowood Metribuzin 4SC plus Metolachlor Tank-Mix Pre-Plant Incorporated Applications		
Soil Texture	Willowood Metribuzin 4SC (Pts./Acre)	Metolachlor (Pts./Acre)
	0.5% - Less Than 3% Organic Matter	
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label
Medium Soils (Loam, silt loam, silt)	¾	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , sandy clay, sandy clay loam, clay loam, clay)	1	Refer to product label
Mississippi Delta Only (Silty clay, clay)	1 - 1 ½	Refer to product label
3% or Greater Organic Matter		
Coarse Soils¹ (Sandy loam, loamy sand)	¾	Refer to product label
Medium Soils (Loam, silt loam, silt)	1	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , sandy clay, sandy clay loam, clay loam, clay)	1 - 1 ¼	Refer to product label
Mississippi Delta Only (Silty clay, clay)	1 ½	Refer to product label

¹Do not use on sand soils. Do not make application of **Willowood Metribuzin 4SC** and metolachlor tank-mix pre-plant incorporated on sand or loamy sand with less than 2% organic matter or crop injury may occur.

²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Broadcast Rates		
Willowood Metribuzin 4SC plus Metolachlor Tank-Mix Pre-Emergence Applications		
Soil Texture	Willowood Metribuzin 4SC (Pts./Acre)	Metolachlor (Pts./Acre)
	0.5% - 3% Organic Matter	
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label
Medium Soils (Loam, silt loam, silt)	¾	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , sandy clay, sandy clay loam, clay loam, clay)	1	Refer to product label
Mississippi Delta Only (Silty clay, clay)	1 - 1 ¼	Refer to product label
Over 3% Organic Matter		
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label
Medium Soils (Loam, silt loam, silt)	¾	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , sandy clay, sandy clay loam, clay loam, clay)	1	Refer to product label
Mississippi Delta Only (Silty clay, clay)	1 - 1 ¼	Refer to product label

¹Do not use on sand soils. Do not make application of **Willowood Metribuzin 4SC** and metolachlor overlay or tank-mix pre-emergence on loamy sand with less than 2% organic matter.

²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Willowood Metribuzin 4SC plus Prowl

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC plus Prowl Overlay Application: Make a pre-plant incorporated treatment of Prowl as directed on that product label for use on soybeans. Follow with a pre-emergence treatment of **Willowood Metribuzin 4SC** as directed on this label for use on soybeans.

Willowood Metribuzin 4SC plus Prowl Tank-Mix Applications

Pre-Plant Incorporated Application: Prepare the soil by plowing or disking to mix previous crop residues into the soil to a depth of 4 to 6". For specific application information see the "PRODUCT INFORMATION" section in the front of this label. Incorporate the tank-

mixture into the top 1 or 2" of soil within 7 days after application according to label directions for Prowl. Mechanical incorporation is not required if a rain of one-quarter inch or more occurs within 7 days after application.

Pre-Emergence Application: Except for minimum and no-tillage systems, the seed bed should be firm and free of trash and clods. For specific application information see the **"PRODUCT INFORMATION"** section in the front of this label. If cultivation is necessary because of soil crusting, soil compaction or weed germination before rain or irrigation, use shallow tilling equipment such as a rotary hoe that does not damage soybeans.

Mixing: See the **"PRODUCT INFORMATION"** section in the front of this label. For information on applying **Willowood Metribuzin 4SC** in fluid or dry fertilizer see the **"Application Of Willowood Metribuzin 4SC In Fluid Fertilizers"** or **"Commercial Impregnation And Application Of Willowood Metribuzin 4SC On Dry Bulk Fertilizer"** sections.

Use Precautions - Soybeans (Willowood Metribuzin 4SC plus Prowl)

- Soil incorporation deeper than specified will reduce weed control and can result in crop injury.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Prowl)

- Soybeans must be planted no later than 7 days after application of the tank-mixture.
- Do not make application of Prowl pre-emergence north of Interstate 80. This application must be made after planting and before crop emergence. Do not incorporate.
- Do not use on muck or peat soils.

See the appropriate sections of the Prowl label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Southern States and Eastern Coastal Plains: For use only in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, Southeastern Missouri "Bootheel" Region and Coastal Plains of Delaware*, Maryland*, New Jersey*, and Virginia*.

Broadcast Rates		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Prowl (Pts./Acre)
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ² , clay, clay loam)	1	Refer to product label for use rates.

¹Do not use on sand soils. Do not use on loamy sand or sandy loam containing less than 1% organic matter.
²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

***Willowood Metribuzin 4SC** plus Prowl should not be used on soils with less than 2% organic matter in the coastal plain of New Jersey or the Delmarva Peninsula.

Northeastern and North Central States: For use only in Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Nebraska, New York, North Dakota, Ohio, Pennsylvania, South Dakota, Wisconsin, and Missouri (except the "Bootheel" Region).

Broadcast Rates		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Prowl (Pts./Acre)
	0.5% - 3% Organic Matter	
Coarse Soils¹ (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, sandy clay, sandy clay loam)	¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ² , clay loam, clay)	¾ - 1	Refer to product label for use rates.
Over 3% Organic Matter		
Coarse Soils¹ (Sandy loam, loamy sand)	¾	Refer to product label for use rates.
Medium Soils (Loam, silt loam, sandy clay, sandy clay loam)	¾ - 1	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ² , clay loam, clay)	1 - 1 ¼	Refer to product label for use rates.

¹Do not use on sand soils. Do not use on loamy sand or sandy loam containing less than 1% organic matter. Where a range of rates is shown for medium and fine soils, use the higher rate if heavy weed infestations are anticipated.
²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Willowood Metribuzin 4SC plus Lasso

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC plus Lasso Tank-Mix Applications

Pre-Plant Incorporated Application: For specific application information see the “**PRODUCT INFORMATION**” section in the front of this label. Make application of **Willowood Metribuzin 4SC** plus Lasso pre-plant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank-mixture after bed formation. Apply within 7 days before planting and shallowly incorporate into the upper 1 to 2” of soil.

Pre-Emergence Application: **Willowood Metribuzin 4SC** may be used in a tank-mix combination with Lasso as a pre-emergence band or broadcast application to soybeans in accordance with the specified soil types and use rates specified.

For specific information regarding spray equipment, dilution rates, mixing, directions for use, methods of application, limitations and restrictions see the appropriate section of this label. See the Lasso label for pertinent recommendations, directions for use, restrictions, and any additional weeds not listed on this label.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Lasso)

- Do not use on muck or peat soils.

See the appropriate sections of the Lasso label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates		
Willowood Metribuzin 4SC plus Lasso Tank-Mix Pre-Plant Incorporated Applications		
Soil Texture	Willowood Metribuzin 4SC (Pts./Acre)	Lasso (Qts./Acre)
Coarse Soils¹ (Sandy loam, loamy sand [over 2% organic matter])	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt)	¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ² , sandy clay, sandy clay loam, clay loam, clay)	1	Refer to product label for use rates.
Mississippi Delta Only (Silty clay, clay)	1 - 1 ¼	Refer to product label for use rates.

¹Do not use **Willowood Metribuzin 4SC** plus Lasso on sand or loamy sand soils with less than 2% organic matter.
²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Broadcast Rates			
Willowood Metribuzin 4SC plus Lasso Tank-Mix Pre-Emergence Applications			
Soil Texture	Willowood Metribuzin 4SC (Pts./Acre)	Plus	Lasso (Qts./Acre)
	0.5% - 3% Organic Matter		
Coarse Soils¹ (Sandy loam)	½	Plus	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	¾	Plus	Refer to product label for use rates.
Fine Soils² (Silty clay, silty clay loam ³ , clay loam, clay)	1	Plus	Refer to product label for use rates.
Mississippi Delta Only (Silty clay to heavy clay)	2	Plus	Refer to product label for use rates.
Greater than 3% Organic Matter			
Coarse Soils¹ (Sandy loam)	¾	Plus	Refer to product label for use rates.
Medium Soils² (Loam, silt loam, silt, sandy clay, sandy clay loam)	1	Plus	Refer to product label for use rates.
Fine Soils² (Silty clay, silty clay loam ³ , clay loam, clay)	1 - 1 ¼	Plus	Refer to product label for use rates.
Mississippi Delta Only (Silty clay to heavy clay)	2	Plus	Refer to product label for use rates.

¹Do not use **Willowood Metribuzin 4SC** plus Lasso on sand or loamy sand soils with less than 2% organic matter.
²For control of lambsquarters, redroot pigweed, wild mustard, green and yellow foxtails on alkaline (calcareous) soils in Minnesota, Nebraska, South Dakota, and North Dakota only, make application of **Willowood Metribuzin 4SC** at rates of ½ pt. per acre on medium soils and ½ - ¾ pt. per acre on fine soils regardless of soil organic matter percentage (use ¾ pt. only where soil pH is less than 7.5 and weed pressure is heavy). The ½ pt. per acre rate of **Willowood Metribuzin 4SC** in tank-mix combination with Lasso can be applied regardless of soil pH. For control of other weeds use **Willowood Metribuzin 4SC** at full rates specified in the table above, **but note that crop injury may occur on soils having a calcareous surface area or a pH of 7.5 or higher.**
³Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Willowood Metribuzin 4SC plus Command®

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive

directions for use and precautionary statements of each product in the tank mixture.

Application of **Willowood Metribuzin 4SC** may be made in combination with Command 4EC as a pre-plant or shallow incorporated application for the control of certain weeds in soybeans. See the Command 4EC label for specific directions for use, recommendations, restrictions and any additional weeds not listed on this label.

Application: Willowood Metribuzin 4SC plus Command 4EC may only be applied with ground equipment as a pre-plant or shallow incorporated application. Immediately incorporate **Willowood Metribuzin 4SC** plus Command 4EC into the top 1 - 3" after application unless surface is dry. On dry soils, incorporate into the top 1 - 3" within 3 hours of tank-mix application. A minimum of 15 gals. spray volume per acre should be used with appropriate nozzle types and sizes to produce a coarse spray droplet. The use of an approved agricultural drift reducing additive is recommended for application volumes of 15 - 40 gals. per acre. The use of an approved agricultural drift reducing additive is required at spray volumes of 10 - 15 gals. per acre.

Mixing: See the "PRODUCT INFORMATION" section in the front of this label.

Use Precautions - Soybeans (Willowood Metribuzin 4SC plus Command)

- Off-site movement of Command spray drift or vapors can cause foliar whitening or yellowing of some vegetation. Prior to application of Command, read and strictly follow all precautions and application instructions as set forth in that label.
- Observe all cautions and limitations on labeling of all products used in mixtures.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Command)

- Do not make application of this tank-mix within 1,000 ft. of towns and subdivisions, commercial vegetable, fruit, nurseries, or greenhouse operations.
- Do not make application by air or through irrigation equipment.
- Do not rotate to wheat, barley, alfalfa or seed corn in the fall of the year of application or in the spring of the following year as crop injury may occur.
- Do not rotate any crop not listed on this label for 18 months following application.
- Do not make application when weather conditions favor drift.
- Do not use treated vines for feed or forage.

See the appropriate sections of the Command label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Weeds Controlled - Soybeans (Willowood Metribuzin 4SC plus Command)

Broadleaves	
Anoda, Spurred Bristly Starbur Carpetweed Copperleaf Beggarweed, Florida Galinsoga Jimsonweed Knotweed Lambsquarters Mallow, Venice	Mustards, Wild Pigweeds Prickly Sida/Teaweed Purslane Pusley, Florida Ragweed, Common Redweed Sesbania Smartweeds Velvetleaf
Grasses	
Barnyardgrass* Bluegrass Crabgrass* Foxtails (Green, Giant, Yellow*, Robust Purple) Goosegrass	Johnsongrass (Seedling)* Panicum, Fall* Panicum, Texas Signalgrass, Broadleaf Witchgrass
*Use 2 pts./acre Command 4EC on coarse and medium textured soils with high populations of these weeds.	

Broadcast Rates		
Willowood Metribuzin 4SC plus Command 4EC		
Tank-Mix Pre-Plant Incorporated Applications		
Soil Texture¹	Willowood Metribuzin 4SC (Pt./Acre)	Command 4EC (Pts./Acre)
0.5% - 3% Organic Matter		
Coarse Soils² (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	½ - ¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ³ , clay loam, clay)	½ - ¾	Refer to product label for use rates.
Over 3% Organic Matter		

Fine Soils (Silty clay, silty clay loam ² , clay loam, clay)	$\frac{3}{4}$ - $\frac{1}{3}$ ³	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label
¹ Do not use on soils with a pH greater than 7.0. ² Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S. ³ Use the lower rate of Willowood Metribuzin 4SC in pre-plant incorporated tank-mix as in those situations where soils within a field vary extremely in texture or organic matter content.							

Willowood Metribuzin 4SC plus Command plus a Grass Herbicide

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application of **Willowood Metribuzin 4SC** may be made with Command 4EC and a grass herbicide (Treflan, Lasso, metolachlor, Prowl or Sonalan) for the control of certain broadleaf weeds and grasses in soybeans. This combination will provide improved control of heavy infestations of velvetleaf, jimsonweed, and common ragweed. **Willowood Metribuzin 4SC** and Command 4EC plus a grass herbicide may be applied pre-plant incorporated broadcast.

Mixing & Application: See the "PRODUCT INFORMATION" section in the front of this label.

See the appropriate sections of the Command, Treflan, Lasso, metolachlor, Prowl, or Sonalan labels for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Weeds Controlled - Soybeans (Willowood Metribuzin 4SC plus Command plus a Grass Herbicide)

Broadleaves	
Anoda, Spurred Bristly Starbur Carpetweed Copperleaf, Hophornbeam Beggarweed, Florida Galinsoga Jimsonweed Knotweed Kochia Lambsquarters Mallow, Venice Mustards, Wild Pigweeds	Prickly Sida/Teaweed Purslane Pusley, Florida Ragweed, Common Redweed Russian Thistle Sesbania Shepherd's Purse Sicklepod Smartweeds Spurge, Spotted Velvetleaf
Grasses	
Barnyardgrass Bluegrass Browntop Millet Crabgrass Crowfootgrass Foxtails	Goosegrass Johnsongrass (Seedling) Panicum, Fall Signalgrass, Broadleaf Witchgrass

Willowood Metribuzin 4SC and Command plus Treflan, Lasso, metolachlor, Prowl or Sonalan will provide suppression (reduce the competition) of cocklebur and sunflower.

See the table below for specified rates of each product to be used in tank-mix combinations:

Broadcast Rates							
Willowood Metribuzin 4SC plus Command plus a Grass Herbicide Tank-Mix Applications							
Soil Texture ¹	Willowood Metribuzin 4SC (Pt./Acre)	Command 4EC ⁴ (Pt./Acre)	Treflan (Pts./Acre)	Metolachlor (Pts./Acre)	Prowl (Pts./Acre)	Lasso (Qts./Acre)	Sonalan (Pts./Acre)
Coarse Soils (Sandy loam, loamy sand)	$\frac{1}{2}$	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	$\frac{1}{2}$ - $\frac{3}{4}$ ³	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , clay loam, clay)	$\frac{3}{4}$ - 1 ³	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label	Refer to product label
¹ On coarse textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on loamy sand or sandy loam soils with less than 1% organic matter. ² Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.							

- ¹On coarse textured soils **with a calcareous surface area or a pH of 7.5 or higher**, do not use on loamy sand or sandy loam soils with less than 1% organic matter.
- ²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.
- ³The higher rate of **Willowood Metribuzin 4SC** should be used for pre-emergence tank-mix application and for the control of sicklepod and hemp sesbania. Use the lower rate of **Willowood Metribuzin 4SC** in the pre-plant incorporated tank-mix **on soils having a calcareous surface area or a pH of 7.5 or higher**, and in those situations where soils within a field vary extremely in texture or organic matter content.
- ⁴Use the higher specified rate under moderate to heavy weed infestations.

Willowood Metribuzin 4SC plus Pursuit® plus a Grass Herbicide

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC may be tank-mixed with Pursuit herbicide and a registered and recommended grass herbicide (Metolachlor-containing product, Lasso, Prowl, Sonalan or Treflan) for control of certain broadleaf and grass weeds in soybeans. Tank-mix combinations of **Willowood Metribuzin 4SC**, Pursuit and metolachlor, Lasso or Prowl can be applied broadcast pre-emergence or pre-plant incorporated. When the grass herbicide used is Sonalan or Treflan, make application of the tank-mix broadcast pre-plant incorporated.

Mixing & Application: See the "PRODUCT INFORMATION" section in the front of this label.

Use Precautions - Soybeans (Willowood Metribuzin 4SC plus Pursuit plus a Grass Herbicide)

- See appropriate sections of the Pursuit herbicide label for restrictions on use area and rotational crops.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Pursuit plus a Grass Herbicide)

- Do not make application of this tank-mix with aerial or irrigation equipment.
- Do not make application when weather conditions favor drift, or allow sprays to drift onto adjacent desirable plants.
- Do not use treated vines for feed or forage.

See the appropriate sections of the Pursuit, Treflan, Lasso, metolachlor, Prowl, or Sonalan labels for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates		
Willowood Metribuzin 4SC plus Pursuit plus a Grass Herbicide* Tank-Mix Pre-Emergence or Pre-Plant Incorporated Applications		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Pursuit (Oz./Acre)
Coarse Soils (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	⅔ - ¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ¹ , clay loam, clay)	¾ - 1	Refer to product label for use rates.

*For control of grass weeds, include metolachlor, Lasso, Prowl, Sonalan or Treflan at label rates in the tank-mix with **Willowood Metribuzin 4SC** and Pursuit herbicides.

¹Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Willowood Metribuzin 4SC plus Pursuit Plus Herbicide

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC may be tank-mixed with Pursuit Plus herbicide for broadcast pre-emergence or pre-plant incorporated application to soybeans for control of certain broadleaf and grass weeds.

Mixing & Application: See the "PRODUCT INFORMATION" section in the front of this label.

Use Precautions - Soybeans (Willowood Metribuzin 4SC plus Pursuit Plus Herbicide)

- See appropriate sections of the Pursuit Plus Herbicide label for restrictions on use area and rotational crops.

Use Restrictions - Soybeans (Willowood Metribuzin 4SC plus Pursuit Plus Herbicide)

- Do not make application of this tank-mix with aerial or irrigation equipment.
- Do not make application when weather conditions favor drift, or allow sprays to drift onto adjacent desirable plants.
- Do not use treated vines for feed or forage.

See the appropriate sections of the Pursuit Plus Herbicide label for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates		
Willowood Metribuzin 4SC plus Pursuit Plus Herbicide Tank-Mix Pre-Emergence or Pre-Plant Incorporated Applications		
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Pursuit Plus (Pts./Acre)
Coarse Soils (Sandy loam, loamy sand)	½	Refer to product label for use rates.
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	⅔ - ¾	Refer to product label for use rates.
Fine Soils (Silty clay, silty clay loam ¹ , clay loam, clay)	¾ - 1	Refer to product label for use rates.

¹Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

Willowood Metribuzin 4SC plus Linuron plus (Lasso or Metolachlor)

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC may be applied in combination with Linuron 50 DF or 4L and Lasso 4 or a registered metolachlor-containing product as a pre-emergence application for the control of certain weeds in soybeans.

Mixing: See the "PRODUCT INFORMATION" section in the front of this label.

Application: Applications can be made only with ground spray equipment in accordance with specified soil types and use rate rates.

See the appropriate sections of the Linuron, Lasso, or the registered metolachlor-containing product labels for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates				
Willowood Metribuzin 4SC plus Linuron plus (Lasso or Metolachlor) Tank-Mix Pre-Emergence Applications				
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Linuron 50 DF (Lbs./Acre)	Lasso 4 (Qts./Acre)	Metolachlor (Pts./Acre)
		-OR- Linuron 4L (Pts./Acre)	0.5% - 3% Organic Matter Only	
Coarse Soils¹ (Sandy, sandy loam, loamy sand)	¼ - ⅜	Refer to product label for use rates.	Refer to product label for use rates.	Refer to product label
Medium Soils (Loam, silt loam, silt, sandy clay, sandy clay loam)	⅜ - ½	Refer to product label for use rates.	Refer to product label for use rates.	Refer to product label
Fine Soils (Silty clay, silty clay loam ² , clay loam, clay)	½ - ¾	Refer to product label for use rates.	Refer to product label for use rates.	Refer to product label

¹Do not use Willowood Metribuzin 4SC plus Linuron plus (Lasso or Metolachlor) on sand soils with less than 1% organic matter.
²Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

FOR USE IN COARSE (LIGHT) SOILS: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC may be used alone or in combination with Treflan, Lasso, or metolachlor for use in coarse-textured, low organic matter soils in the states listed above for the control of certain weeds in soybeans.

Mixing & Application: See the "PRODUCT INFORMATION" section in the front of this label.

Do not use on sand soils with less than 1% organic matter, or on sandy loam or loamy sand soils with less than 0.5% organic matter.

See the appropriate sections of the Treflan, Lasso, or metolachlor labels for additional directions for use, recommendations, precautions, restrictions, limitations, sprayer clean-up, and any additional weeds not listed on this label.

Broadcast Rates	
Willowood Metribuzin 4SC Alone Pre-Emergence Applications	
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)
	0.5% or Above Organic Matter
Coarse (light) Soils (Sand ¹ , sandy loam, loamy sand)	$\frac{1}{2}$ - $\frac{3}{4}$ ²
¹ Not for use on sand with less than 1% organic matter. ² Use the higher labeled rate under heavy weed pressures and/or on soils higher in organic matter.	

Willowood Metribuzin 4SC in Combination with Other Herbicides: Willowood Metribuzin 4SC may be used in a tank-mix combination with Treflan as a pre-plant incorporated application or as a pre-emergence overlay application following a pre-plant incorporated application of Treflan. Willowood Metribuzin 4SC may also be used as a pre-emergence application in combination with Lasso or Metolachlor.

Broadcast Rates			
For Use in Coarse (Light) Soils			
Soil Texture	Willowood Metribuzin 4SC (Pt./Acre)	Plus	Combination Product/Acre
			0.5% or Above Organic Matter
Coarse (light) Soils (Sand ¹ , sandy loam, loamy sand)	$\frac{1}{2}$ - $\frac{3}{4}$ ²	Plus	Pre-Plant Incorporated Treflan 4EC (Refer to product label for use rates.)
	$\frac{1}{2}$ - $\frac{3}{4}$ ²	Plus	Pre-Emergence Lasso 4E (Refer to product label for use rates.)
	$\frac{1}{2}$ - $\frac{3}{4}$ ²	Plus	Pre-Emergence Metolachlor (Refer to product label for use rate)
¹ Not for use on sand with less than 1% organic matter. ² Use the higher labeled rate under heavy weed pressures and/or on soils higher in organic matter.			

BURNDOWN WEED CONTROL - SOYBEANS

Willowood Metribuzin 4SC can be used as part of a herbicide program for burndown of existing vegetation before crop emergence in conservation tillage systems. Willowood Metribuzin 4SC may be tank-mixed with 2,4-D low volatile ester (LVE), Gramoxone Extra, or Roundup/Roundup Ultra/Touchdown for control of emerged weeds before soybean emergence. Willowood Metribuzin 4SC tank-mixes with 2,4-DB, Fusion, Poast Plus or Select may also be used in soybeans for control of emerged weeds before crop emergence. Willowood Metribuzin 4SC burndown tank-mixes can be applied before planting or before crop emergence in the following areas: All areas for all products except Fusion tank mixes. Fusion tank mixes may be applied in the following states: Delaware, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Virginia, West Virginia, and Wisconsin.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application: Application of Willowood Metribuzin 4SC may be made up to 30 days before planting or pre-emergence. Make application only by ground equipment when Willowood Metribuzin 4SC is used for burndown of existing vegetation in conservation tillage systems. Refer to the tables below (Willowood Metribuzin 4SC Burndown Rates - Soybeans and Weeds Controlled by Burndown Rates of Willowood Metribuzin 4SC) for Willowood Metribuzin 4SC and tank-mix partner burndown rates, weeds controlled and application information.

Use Precautions - Soybeans (Burndown Weed Control)

- Do not apply these treatments after crop emergence. Observe all precautions and limitations on the labeling of all products used in tank-mixtures. See the "PRODUCT INFORMATION" section of this label for additional information, precautions, and limitations.

Use Restrictions - Soybeans (Burndown Weed Control)

- Do not apply tank-mixtures containing 2,4-D LVE if wind is blowing toward desired susceptible plants (i.e., cotton, tobacco, tomato, etc.) or when wind speeds exceed 6 mph.
- Apply only 2,4-D low volatile ester formulations which are registered and labeled for pre-plant or burndown use in soybeans.

Feeding Restrictions:

Grazing and Pre-Harvest Interval (PHI):

- Soybean vines or hay treated with Willowood Metribuzin 4SC may be grazed or fed to livestock 40 days after application.

- Do not feed hay, forage, fodder or graze 2,4-D, Select, or Fusion treated vegetation.
- Follow the most restrictive pre-harvest interval of all products used in a tank-mixture.

Willowood Metribuzin 4SC Burndown Rates - Soybeans	
Application Timing	Willowood Metribuzin 4SC (Oz./Acre)
Pre-Plant (0 - 30 days)	3 - 8
Pre-Emergence	

Willowood Metribuzin 4SC Plus Tank-Mix Partner Burndown Rates - Soybeans		
Product ¹	Willowood Metribuzin 4SC ¹	Directions & Remarks
Willowood Metribuzin 4SC + 2,4-D LVE	3 - 8 fl. oz./A	Make application at least 7 days pre-plant when using 2,4-D LVE at ¼ - ½ lb. a.i./acre and at least 30 days pre-plant with rates greater than ½ lb. a.i./acre. Include crop oil concentrate (COC) at the rate of 1 gal. per 100 gals. of spray solution (1% v/v).
Willowood Metribuzin 4SC + 2,4-DB	3 - 8 fl. oz./A	Apply pre-plant or before soybean emergence. Include non-ionic surfactant at 2 qts. per 100 gals. (0.5% v/v) of spray solution.
Willowood Metribuzin 4SC + Fusion + 2,4-D LVE	3 - 8 fl. oz./A	For use only in Delaware, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Virginia, West Virginia, and Wisconsin. For this tank mix follow the planting restrictions under the Directions & Remarks section above for Willowood Metribuzin 4SC + 2,4-D LVE . Fusion rates of 4, 6 and 8 fl. oz. will control certain grasses up to 2, 4 and 6" in height, respectively. Include either crop oil concentrate at 1 gal. per 100 gals. (1.0% v/v) or non-ionic surfactant at 1 to 2 qts. per 100 gals. (0.25 to 0.5% v/v) of spray solution. See the Fusion label for additional information.
Willowood Metribuzin 4SC + Gramoxone Extra	3 - 8 fl. oz./A	Must be applied before crop emergence. See Gramoxone Extra label for amount to use in relation to weed height. Make application in 20 - 60 gals. of water/acre. Include either non-ionic surfactant at 1 qt. per 100 gals. (0.25% v/v) or crop oil concentrate at 1 gal. per 100 gals. (1% v/v) of spray solution.
Willowood Metribuzin 4SC + Gramoxone Extra + 2,4-D LVE	3 - 8 fl. oz./A	For this tank mix follow the Directions & Remarks sections above for Willowood Metribuzin 4SC + 2,4-D LVE and Willowood Metribuzin 4SC + Gramoxone Extra , paying special attention to crop planting restrictions with 2,4-D LVE. Include either non-ionic surfactant or crop oil concentrate in this tank mix.
Willowood Metribuzin 4SC + Poast Plus + 2,4-D LVE	3 - 8 fl. oz./A	For this tank mix follow the planting restrictions under the Directions & Remarks section above for Willowood Metribuzin 4SC + 2,4-D LVE . The 8 and 12 fl. oz. rate of Poast Plus will control certain grasses up to 2 and 3" in height, respectively. Include either crop oil concentrate at the rate of 1 gal. per 100 gals. of spray solution (1% v/v) or Dash HC at 1 pt. per acre. See the Poast Plus label for additional information.
Willowood Metribuzin 4SC + Roundup/ Roundup Ultra or Touchdown	3 - 8 fl. oz./A	Must be applied before crop emergence. Use the higher rates as weeds approach the maximum weed heights listed in the " Weeds Controlled " section below. Make application in 10 - 20 gals. of water per acre. With Roundup and Touchdown, include non-ionic surfactant at 2 qts. per 100 gals. (0.5% v/v) and ammonium sulfate (spray grade) at 17 lbs. per 100 gals. of spray solution. With Roundup Ultra, include ammonium sulfate (spray grade) at 17 lbs. per 100 gals. of spray solution. Any glyphosate formulation registered and labeled for use in soybeans may be tank-mixed with Willowood Metribuzin 4SC .
Willowood Metribuzin 4SC + Roundup/Roundup Ultra or Touchdown + 2,4-D LVE	3 - 8 fl. oz./A	For this tank-mix follow the Directions & Remarks sections above for Willowood Metribuzin 4SC + 2,4-D LVE and Willowood Metribuzin 4SC + Roundup/Roundup Ultra/Touchdown , paying special attention to planting restrictions with 2,4-D LVE. Use the adjuvant directions under the Willowood Metribuzin 4SC + Roundup/Roundup Ultra/Touchdown tank mix. Do not use crop oil concentrate.
Willowood Metribuzin 4SC + Select + 2,4-D LVE	3 - 8 fl. oz./A	For this tank mix follow the planting restrictions under the Directions & Remarks sections above for Willowood Metribuzin 4SC + 2,4-D LVE . The 3 and 4 fl. oz. rates of Select will control certain grasses up to 3 and 4" in height, respectively. Include crop oil concentrate at the rate of 1 qt. per acre and 28% UAN (urea ammonium nitrate) at a rate of 1 - 2 qts. per acre. See the Select label for additional information.

¹Refer to the respective registered product label for use rates and application information.

Weeds Controlled - Soybeans (Burndown Weed Control)

Willowood Metribuzin 4SC in tank-mixtures with the above herbicides will provide burndown control of the weeds listed below.

Weeds Controlled by Burndown Rates of Willowood Metribuzin 4SC	
Weeds Controlled	Willowood Metribuzin 4SC + (plus)

	2,4-D LVE	Poast Plus + 2,4-D LVE	Select + 2,4-D LVE	Fusion + 2,4-D LVE	Roundup/ Roundup Ultra/ Touchdown	Roundup/ Roundup Ultra/ Touchdown + 2,4-D LVE	Gramoxone Extra	Gramoxone Extra + 2,4-D LVE	2,4-DB	
Annual Grasses										
Maximum Burndown Height (Inches)										
Barley		-	-	-	8	8	4 - 6	4 - 6	Does not control these species.	
Barnyardgrass		2 - 3	3 - 4	-	6	6	4 - 6	4 - 6		
Crabgrass spp.		2 - 3	-	-	6	6	4 - 6	4 - 6		
Foxtail spp.	Does not control these species.	2 - 3	3 - 4	2 - 6	8	8	4 - 6	4 - 6		
Johnsongrass, Seedling		2 - 3	-	-	8	8	4 - 6	4 - 6		
Panicum, Fall		2 - 3	3	2 - 6	6	6	4 - 6	4 - 6		
Sandbur, Field		-	-	-	8	8	4 - 6	4 - 6		
Shattercane		2 - 3	-	-	8	8	4 - 6	4 - 6		
Wheat, Volunteer		-	-	-	6	6	4 - 6	4 - 6		
Witchgrass		2 - 3	-	-	6	6	4 - 6	4 - 6		
Broadleaves										
Maximum Burndown Height (Inches)										
Buffalobur		-	-	-	-	6	6	4 - 6	4 - 6	-
Chickweed, Common	6	6	6	6	6	6	4 - 6	4 - 6	2	
Cocklebur, Common	6	6	6	6	6	8	4 - 6	4 - 6	6	
Dandelion, Common	6 dia ¹	6 dia ¹	6 dia ¹	6 dia ¹	2 dia ²	6 dia ¹	4 dia ⁴	6 dia ¹	2 dia	
Henbit	4	4	4	4	4	4	4 - 6	4 - 6	-	
Horseweed (Marestail)	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	4 ²	6	3	6 ¹	2 ³	
Jimsonweed	6	6	6	6	6	6	4 - 6	4 - 6	2	
Kochia*	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4	4	4	4	-	
Ladysthumb	6	6	6	6	6	8	4 - 6	4 - 6	3	
Lambsquarters, Common	6	6	6	6	6	8	4 - 6	4 - 6	2	
Lettuce, Prickly	6	6	6	6	4	6	4 - 6	4 - 6	2	
Mallow, Venice	6	6	6	6	6	6	4 - 6	4 - 6	-	
Morningglory spp.	6	6	6	6	2	4	2	4	4	
Mustard spp.	6	6	6	6	6	8	4 - 6	4 - 6	2	
Pennycress, Field	6	6	6	6	6	6	4 - 6	4 - 6	2	
Pigweed spp. (Annual)	6	6	6	6	6	8	4 - 6	4 - 6	3	
Ragweed, Common	6	6	6	6	6 ²	8	4 - 6	4 - 6	2	
Ragweed, Giant	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	6 ^{1,3}	4 ²	6	4	6	2	
Shepherd's Purse	6	6	6	6	6	6	4 - 6	4 - 6	-	
Sida, Prickly	6	6	6	6	4	4	4	4	1	
Smartweed, Pennsylvania	6	6	6	6	6	8	4 - 6	4 - 6	3	
Sunflower, Common	6	6	6	6	6	6	4 - 6	4 - 6	4	
Thistle, Russian	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	4 ^{1,3}	2 - 4 ^{2,3}	6	4	4 - 6	3 ³	
Velvetleaf	6	6	6	6	6	8	4 - 6	4 - 6	3	
Waterhemp spp.	6	6	6	6	6	8	4 - 6	4 - 6	3	
*Does not control triazine resistant biotypes. ¹ Use 2,4-D LVE at 0.5 lb. a.i./acre. ² Refer to the respective Roundup/Roundup Ultra or Touchdown product labels for use rates and product information. ³ Use Willowood Metribuzin 4SC at 4 oz./acre for optimum control. ⁴ Suppression only.										

RESIDUAL WEED CONTROL

Willowood Metribuzin 4SC burndown programs can be used as part of a full season weed control program when, 1) applied as a tank-mixture with residual herbicides, or 2) followed with a post-emergence weed control program, which is registered for use on the crop.

For residual control, **Willowood Metribuzin 4SC** burndown programs may include tank-mixes with the following herbicides or combination of herbicides:

Alachlor Canopy® Broadstrike® + Metolachlor Canopy®	Command® Detail® Metolachlor	Frontier® Gemini® Linuron	New Lorox® Plus Pentagon® Preview®	Prowl® Pursuit® Pursuit® Plus	Scepter® Squadron® Turbo®
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See the individual product labels for additional information, precautions, restrictions and limitations.

POST-EMERGENCE DIRECTED SPRAY APPLICATIONS - Southern and Southeastern States Only

Willowood Metribuzin 4SC can be applied in post-emergence directed sprays to soybeans for control of certain weeds which escape pre-plant or pre-emergence herbicide applications and for control of additional flushes of weeds that may occur after soybeans have emerged. Post-emergence directed sprays of **Willowood Metribuzin 4SC** can be applied to soybeans in addition to a pre-emergence or pre-plant application of **Willowood Metribuzin 4SC** according to label directions.

Use Precautions - Soybeans (Directed Post-Emergence)

- To avoid injury to other crops or desirable plants from spray drift, sprayer pressure must not exceed 30 PSI and the sprayer must be fitted with nozzles no smaller than 8002 T-Jet (or equivalent).

Use Restrictions - Soybeans (Directed Post-Emergence)

- Do not feed or graze green soybean vines.
- Pre-Harvest Interval (PHI):** Do not harvest soybeans or use dry soybean vines for feed or forage within 70 days of last application.
- Do not make application directly to soybeans or serious crop injury will occur.
- Do not allow spray to contact more than the lower ¼ to ½ of soybean plants. Soybean leaves contacted by the spray will be killed.
- Do not make application of **Willowood Metribuzin 4SC** post-emergence to sensitive soybean varieties. See the “**Use Precautions - Soybeans**” at the beginning of the “**SOYBEANS**” section of this label.
- Do not apply under weather conditions which favor drift.

Weeds Controlled: Application of **Willowood Metribuzin 4SC** made post-emergence to soybeans as a directed spray according to directions on this label, will control the weeds listed below at rates shown (broadcast basis) when grasses and common ragweed are less than 1 inch tall and other broadleaves are less than 3” tall:

Weeds Controlled	Willowood Metribuzin 4SC (Pts./Acre)
Beggarweed, Florida (<i>Desmodium tortuosum</i>) Carpetweed (<i>Mollugo verticillata</i>) Cocklebur (<i>Xanthium pensylvanicum</i>) Crabgrass (<i>Digitaria</i> spp.) Dayflower (<i>Commelina</i> spp.) Mexicanweed (<i>Caperonia castanifolia</i>) Pigweeds (<i>Amaranthus</i> spp.) Purslane (<i>Portulaca oleracea</i>) Sicklepod (<i>Cassia obtusifolia</i>) Velvetleaf (<i>Abutilon theophrasti</i>)	½
Prickly Sida/Teaweed (<i>Sida spinosa</i>) Sesbania (<i>Sesbania</i> spp.)	½ - 1
Ragweed, Common (<i>Ambrosia artemisiifolia</i>)	1

At the rate of ½ pt. per acre morningglory species, (*Ipomoea* spp.) horsenettle, (*Solanum* spp.) Florida pusley, (*Richardia scabra*) spotted spurge (*Euphorbia maculata*), and wild poinsettia (*Euphorbia heterophylla*) are suppressed when **Willowood Metribuzin 4SC** is applied before these weeds are 3” tall. The 1 pt. per acre rate will suppress broadleaf signalgrass (*Brachiaria platyphylla*) up to 1 inch tall.

Willowood Metribuzin 4SC Rates - Soybeans (Directed Post-Emergence)	
States	Willowood Metribuzin 4SC (Pt./Acre)
Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas	Broadcast Basis ½ - 1

Make application at proper use rate using 10 to 40 gals. of water per acre as a directed spray in a 6 to 8” band on each side of the row after soybeans are 8” tall and before broadleaf weeds are 3” tall and before grasses and common ragweed are 1 inch tall. For best results the spray must cover weed foliage with minimum or no contact with soybean foliage. Add a non-ionic surfactant such as Ortho X-77 to the spray mixture to obtain better wetting of weed leaf surfaces. To determine the correct use rate of **Willowood Metribuzin 4SC** for a band application see “**Banded Application**” under the “**PRODUCT INFORMATION**” section in the front of this label.

If necessary, a second post-emergence directed spray application can be made after 7 days.

**BARLEY (SPRING AND WINTER)
AND
WHEAT (WINTER)**

Willowood Metribuzin 4SC may be used for control or suppression of certain grasses and broadleaf weeds when applied post-emergence to spring and winter barley or winter wheat. **Willowood Metribuzin 4SC** alone and several tank-mixture treatments may be used in the following states: AR, GA, ID, IL, IN, KS, KY, LA, MS, MO, MT, NV, OH, OK, OR, TN, TX, UT, and WA.

Mixing: See the “**PRODUCT INFORMATION**” section of this label for specific mixing procedures. When tank-mixing, carefully follow the instructions on this label. See the other product labels registered for use in barley and winter wheat for additional use directions, rates, weeds controlled and restrictions.

Tank-Mixtures: It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Willowood Metribuzin 4SC may be tank-mixed with Ally, Amber, Finesse, Glean FC, Harmony Extra, 2,4-D, MCPA, Banvel/Banvel SGF, Bronate, or Buctril herbicides. A non-ionic surfactant containing at least 80% active ingredient may be used in **Willowood Metribuzin 4SC** tank-mixes with sulfonyleurea herbicides (Ally, Amber, Finesse, Glean FC and Harmony Extra). Do not use a crop oil concentrate or any adjuvant containing vegetable or petroleum oils with any **Willowood Metribuzin 4SC** mix as crop injury may result. Additional pesticides may also be tank-mixed with **Willowood Metribuzin 4SC** unless specifically prohibited on the mix products' label. In some instances, combinations with organophosphate insecticides may cause temporary leaf yellowing and/or crop injury, especially when widely fluctuating day/night temperatures occur near application. Always refer to the other product labels registered for use on spring and winter barley, and winter wheat for additional directions, rates and weed species controlled. Observe all precautions and limitations on labeling of all products used in mixtures.

Application: Application of **Willowood Metribuzin 4SC** may be made by aerial or ground application equipment. Use a minimum spray volume of 2 gpa by air and 10 gpa by ground. Uniform spray coverage is necessary to obtain optimum weed control and to minimize potential for crop injury. Do not exceed rates specified on this label. Do not make application of **Willowood Metribuzin 4SC** through any type of irrigation equipment. Make application of **Willowood Metribuzin 4SC** when the crop is healthy and actively growing. **Willowood Metribuzin 4SC** may be applied more than once per crop season. Allow a minimum of 21 days between applications if wheat is actively growing or allow 45 days between applications if wheat is growing in adverse conditions, has entered dormancy or is stressed due to frost damage, disease, drought or excessive moisture. Do not use on soils containing less than 0.75% organic matter. Do not apply more than a total of 16 fl. oz. **Willowood Metribuzin 4SC** (8 oz. a.i.) per acre per year. On irrigated cereals, do not apply more than 0.5 inch of water for the first irrigation, the maximum amount for each additional irrigation must not exceed 1 inch. Allow a minimum of 14 days between the first irrigation and subsequent irrigations.

Performance Factors: Weed control may not be observed for 2 to 4 weeks under normal growth conditions and for 4 to 6 weeks under very dry conditions. Moisture (at least ½ inch) is required within 2 to 3 weeks after application to move **Willowood Metribuzin 4SC** into the weed root zone. Lack of adequate moisture after application may result in poor or erratic weed control. Control or suppression of listed weeds is dependent on weed size at time of application. Control or suppression may be reduced if broadleaf weeds are taller than 1 inch or grasses have more than 2 leaves.

Use Precautions - Barley (Spring and Winter) and Wheat (Winter)

- Crop injury may occur if **Willowood Metribuzin 4SC** is applied:
 - When the crop is under stress such as winter kill, frost damage, disease, drought or excessive moisture, severe grazing, or when these conditions follow the application.
 - In combination with fluid fertilizer especially with the addition of surfactant.
 - Prior to the growth stage specified on this label.
 - To soils high in lime or sodium, a pH greater than 7.7, calcareous, gravelly, thinly covered, or exposed subsoil areas.
 - To fields where seeds have been planted less than 1 inch deep.
 - To a non-winter hardy wheat or barley variety.
 - To a sensitive wheat or barley variety as listed below.
 - To frozen soil or crop still in winter dormancy.

Feeding Restrictions:

Grazing and Pre-Harvest Interval (PHI):

- Do not graze wheat within 14 days of **Willowood Metribuzin 4SC** application or harvest grain within 21 days after last application.
- Do not graze or harvest barley before crop maturity.
- For tank-mix combinations, follow the most restrictive label.

Spring and Winter Barley and Winter Wheat Rotations Following Potatoes Treated with **Willowood Metribuzin 4SC**: If planting a sensitive variety (listed under the wheat and barley variety tolerance portion of this label), following potatoes treated with **Willowood Metribuzin 4SC** or metribuzin containing products, see the potato section of the **Willowood Metribuzin 4SC** label for special cultural practices to follow.

Application Directions: **Willowood Metribuzin 4SC** alone or in a tank-mix with labeled broadleaf herbicides may be applied by aerial or ground spray equipment as a broadcast post-emergence spray.

Broadcast Rates			
Post-Emergence Applications			
Soil Texture	Crop Growth Stage	Willowood Metribuzin 4SC (Oz./Acre)	
		Organic Matter	
		0.75 - 2.0%	Over 2.0%
Coarse Soils	2 Leaf to	1.5 - 3	1.5 - 4.5
Medium Soils		1.5 - 4.5	3 - 4.5
Fine Soils	2 Tiller	3 - 4.5	3 - 6
Use these rates on crops with secondary roots smaller than 1 inch. For dryland winter wheat (non-irrigated), apply the highest specified rate to achieve maximum weed suppression/control.			
Coarse Soils	3 Tiller to	4.5 - 6	6 - 7.5
Medium Soils		6 - 7.5	7.5 - 9

Fine Soils	4 Tillers	7.5 - 9	7.5 - 9
Use these rates on crops with secondary roots smaller than 1 inch. For dryland winter wheat (non-irrigated), apply the highest specified rate to achieve maximum weed suppression/control.			
Coarse Soils	Over 4 Tillers	6 - 9	7.5 - 12
Medium Soils		6 - 12	7.5 - 12
Fine Soils		7.5 - 12	12 - 16
Do not make application within 2 weeks after grazing or breaking of winter dormancy. Make application after the crop is at or beyond the 3 tiller growth stage but before jointing. Secondary roots should be developed and larger than 1 inch long. Do not apply before 75 days after planting.			
For dryland winter wheat (non-irrigated), apply the highest specified rate to achieve maximum weed suppression/control.			
GEORGIA ONLY: Wheat must be planted before November 15 th in the Piedmont area and Northern part of the state, and before December 1 st in the Coastal Plain area.			

WHEAT AND BARLEY VARIETAL TOLERANCE*

Wheat and barley varieties vary in their tolerance to **Willowood Metribuzin 4SC**. Varieties below are tolerant to and are recommended for use with **Willowood Metribuzin 4SC**:

- **Winter Wheat:** Abe, AgriPro Mason, AgriPro Shiloh, Arthur, AS 7846, AS 7853, Baker Seed 32, Barbie VI, Basin, Batum, Bayles, Becker, Bintee V, Buchshot DS 2368, Caldwell, Cardinal, Cashup, Centurk, Cherokee, Cheyenne, Clark, Coker 747, Coker 762, Coker 797, Coker 68-15, Coker 9134, Coker 9543, Coker 9904, Coker 9907, Daws, DB 533W, DB 562W, DB 580W, Delta King 502, Delta King 9027, Dixie 952, Doublecrop, Dusty, Dyna-gro 426, Dynasty, Excel, Faro, FFR 525W, Florida 302, FS 432, FS 433, FS 435, Gains, Garst 64, Georgia 100, Genie V, Hatton, Hawk, Hill 81, Howell, Hunter, Hyak, Hyslop, Katie VI, KY 16-2, Lamed, Lewis 833, Lewjain, Lisa, Longhorn, Luke, Madsen, Magnum, Malcom, McDermid, McNair 1003, McNair 1813, Molly, Moro, Neely, Nelson, Newton, Norstar, Norwin, Nugaines, Oasis, Omega 78, Paha, Peck, Pike, PI 2157, PI 2180, PI 2510, PI 2545, PI 2548, PI 2550, PI 2552, PI 2555, PI 2566, PI 2571, PI 2580, PI 2684, Quantum 577, Redwin, Rocky, Saluda, Sawyer, SC 104, Siouland, Sprague, Southern Belle, Stacy, Stallion, Stephens, TAM W101, TAM 105, TE 877, TE 2548, TE SR204, Tiber, Tomahawk, TR 8555, TR 8557, TR 8768, Traveler, Tres, Tyee, Tyler, Verne, Victory, Wakefield, Wanser, Weston, Winalta, and Wrangler.
- **Barley:** Advance, Boyer, Clark, Compana, Hannchen, Hector, Hesk, Hudson, Lud, Luther, Kamiak, Klages, Olympic, Pirolina, Steptoe, and Triumph.

The following cereal varieties are sensitive to **Willowood Metribuzin 4SC** and are not recommended for use:

- **Winter Wheat:** AgriPro Clemens, AT 90W, AT 91W, Arapaho, Baker Seed 33, Century, Cimarron, Coker 833, Coker 916, Coker 983, Coker 9024, Coker 9105, Coker 9323, Coker 9474, Coker 9663, Coker 9835, Coker Coker 9766, Coker 9877, EK 102, EK 114, FFR 555, Florida 304, Freedom, FS 417, FS 423, FS 425, FS 430, Gore, Hazen, Hickory, Jackson, Julie III, KY 49 25, Linden, Madison, Mesa, Mustang, Pacer, PI XW 522, PI 2551, PI 2163, Pioneer 2691, Princeton 733, PSR W71, PSR 226, PSR 278, Rosen, Savannah, Sierra, TAM 107, TR 101, TR 1011, TR 8822, Triumph 64, Vona, Wings, Winridge, and Yamhill.
- **Spring/Durum Wheat:** Avoid use on Spring wheat and Durum wheat varieties.
- **Barley:** Glenn, Morex, Moravian 3, Larker, Summit, Bracken, Anheuser Busch B2601, and varieties with Morex parentage.
- **Varieties Not Listed:** To avoid possible crop injury on any variety not mentioned in this label, contact a Willowood, LLC representative or herbicide expert for a variety recommendation before treatment or treat a small strip of the unlisted variety with the labeled **Willowood Metribuzin 4SC** rate to ascertain crop tolerance before treating an entire field.

*Vendor names are abbreviated: AS (Agseco), AT (Agratech), DB (Diener Bros.), FS (Growmark FS), PI (Pioneer), PSR (Hybritech), SC (J.M. Schultz), TE (Terra), and TR (Terral).

Weeds Controlled - Barley (Spring and Winter) and Wheat (Winter)

Used at specified rates, **Willowood Metribuzin 4SC** will control the broadleaf weeds listed below. Control is best when applied to young, actively growing weeds.

Bittercress	Evening Primrose, Cutleaf	Knotweed, Prostrate	Pigweed, spp.
Catchfly Conical (Sand)	Falseflax, Smallseed	Lambsquarters, Common	Pineappleweed
Catchweed (Madwort)	Fiddleneck, Tarweed	Lettuce, Miners	Polemonium, Annual (Jacob's Ladder)
Chickweed, Common	Filaree, Redstem	Mustard, Blue	Radish, Wild
Chickweed, Mouseear	Geranium	Mustard, Wild	Shepherd's Purse
Corncockle	Carolina Gromwell, spp.	Pennycress, Field	Speedwell, Ivyleaf
Dogfennel (Mayweed)	Henbit	Pepperweed, Virginia	Turnip, Wild

Weeds Controlled - Barley (Spring and Winter) and Wheat (Winter) – Virginia Only

In the state of Virginia, **Willowood Metribuzin 4SC** may be used for control of ALS-Resistant Chickweed (common and mouseear) in a post-emergence application to winter barley or winter wheat. **Willowood Metribuzin 4SC** may be applied alone or in tank mixture (see application information above). For optimal control, make application when weeds are less than or equal to 4 inches in height.

Broadcast Rates			
Post-Emergence Applications			
Soil Texture	Crop Growth Stage	Willowood Metribuzin 4SC (Pts./Acre)	
		Organic Matter	
		0.75 - 2.0%	Over 2.0%
Coarse Soils	2 Leaf	1 ½ - 3	1 ½ - 4 ½

Medium Soils	to	1 ½ - 4 ½	3 - 4 ½
Fine Soils	2 Tiller	3 - 4 ½	3 - 6
Use these rates on crops with secondary roots smaller than 1 inch. For dryland winter wheat (non-irrigated), apply the highest specified rate to achieve maximum weed suppression/control.			
Coarse Soils	3 Tiller	4 ½ - 6	6
Medium Soils	to	6 - 7 ½	6 - suppression
Fine Soils	4 Tiller	6 - suppression	6 - suppression
Use these rates on crops with secondary roots smaller than 1 inch. For dryland winter wheat (non-irrigated), apply the highest specified rate to achieve maximum weed suppression/control. Do not make application within 2 weeks after grazing or breaking of winter dormancy. Make application after the crop is at or beyond the 3 tiller growth stage but before jointing. Do not apply before 75 days after planting.			

Weeds Suppressed - Barley (Spring and Winter) and Wheat (Winter)

Willowood Metribuzin 4SC control of the following weeds varies from poor to excellent depending on time of treatment, stage of growth at application, temperatures and soil moisture conditions following treatment. For maximum effect on these weeds, apply the highest labeled use rate at the earliest growth stage timing for each particular soil type and organic matter. Suppression is defined as a reduction in weed size and growth as compared to a non-treated area in the same field.

Broadleaves	
Buckwheat, Wild*	Mustard, Tansy
Buttercup, spp.	Mustard, Tumble (Jim Hill)*
Cowcockle	Thistle, Russian
Kochia*	Vetch, Winter
Lettuce, Prickly	
Grasses	
Barley, Hare (Wild)	Brome, Ripgut*
Barley, Little	Cheat*
Blackgrass	Foxtail, spp.*
Bluegrass, Annual	Oat, Wild*
Bluegrass, Bulbous	Rescuegrass*
Brome, Downy*	Whitlowgrass, Spring (Vernal)
Brome, Japanese*	Windgrass
*Use the highest labeled Willowood Metribuzin 4SC rate for maximum weed suppression.	

FOR WEED CONTROL IN A WHEAT/FALLOW/WHEAT ROTATION (Idaho, Oregon, Utah, and Washington Only)

Application of **Willowood Metribuzin 4SC** may be made to provide weed control during the fallow period after wheat harvest or in the Spring before winter wheat is planted. Winter wheat can be seeded 4 months (120 days) after Spring application. Mechanical tillage or the application of a contact herbicide may be required to control weeds germinating before seeding of winter wheat. Best results will be obtained where straw and chaff are evenly distributed across the field.

For specific application information see the “**PRODUCT INFORMATION**” section in the front of this label.

Where weed growth is present at application time, **Willowood Metribuzin 4SC** should be applied with Gramoxone or other contact herbicide.

After Harvest Application (Fall Fallow): Application of **Willowood Metribuzin 4SC** may be made to wheat stubble after harvest in the Fall. Make application at 1 to 1 ¼ pts. per acre broadcast before weeds emerge. Use higher labeled rate for longer weed control or for weeds designated as requiring the higher rate for control. Rainfall (½ inch or more) is necessary for herbicide activation.

Application of **Willowood Metribuzin 4SC** may be made at 1 to 1 ¼ pts. per acre as directed above for a Fall application. If other vegetation is present at the time of application use a contact herbicide.

Spring Application (Summer Fallow): Application of **Willowood Metribuzin 4SC** may be made to wheat stubble in the Spring. Make application at ¾ to 1 pt. per acre broadcast before weeds emerge in the Spring. Use higher labeled rate for longer weed control or for weeds designated as requiring higher rate for control. Rainfall (½ inch or more) is necessary for herbicide activation.

Use Restrictions - Wheat/Fallow/Wheat Rotation

- Do not plant crops in treated areas for at least 10 months following Fall applications.
- Do not rotate any crop not listed on this label for 18 months following application.
- Do not graze treated fields.
- Do not plant Spring seeded cereals following Fall fallow applications of **Willowood Metribuzin 4SC**.
- Where **Willowood Metribuzin 4SC** was applied in the Fall, do not make application of **Willowood Metribuzin 4SC** in the Spring.

See the other product label registered for additional directions, rates, and weed species controlled.

Weeds Controlled - Wheat/Fallow/Wheat Rotation

Broadleaves	
Chickweed, Common (<i>Stellaria media</i>) Henbit (<i>Lamium amplexicaule</i>) Kochia* (<i>Kochia scoparia</i>) Lambsquarters (<i>Chenopodium album</i>) Mustard, Blue or Purple (<i>Chorispura tenella</i>) Mustard, Jim Hill (<i>Sisymbrium altissimum</i>) Mustard, Tansy (<i>Descurainia pinnata</i>)	Mustard, Treacle (<i>Erysimum repandum</i>) Mustard, Wild (<i>Brassica kaber</i>) Pennycress, Field (Fanweed) (<i>Thlaspi arvense</i>) Pigweeds (<i>Amaranthus</i> spp.) Russian Thistle* (<i>Salsola iberica</i>) Sunflower, Wild* (<i>Helianthus</i> spp.)
Grasses	
Cheatgrass (<i>Bromus secalinus</i>) Brome, Downy (<i>Bromus tectorum</i>)	Wheat, Volunteer* (<i>Triticum</i> spp.)
*Since control of these weeds may be variable depending on moisture following application, the higher label rate should be used.	

**FOR WEED CONTROL IN A FALLOW ROTATION WITH BARLEY AND WHEAT
(Colorado, Kansas, Montana, Nebraska, and Wyoming Only)**

Application of **Willowood Metribuzin 4SC** may be made to provide weed control during the fallow period after wheat or barley harvest or in the Spring before planting of Winter wheat or barley. Mechanical tillage or the application of a contact herbicide may be required to control weeds germinating before seeding of Winter wheat or barley.

For specific application information see the “**PRODUCT INFORMATION**” section in the front of this label. Where weed growth is present at application time, **Willowood Metribuzin 4SC** should be applied with Gramoxone, Roundup, or other contact herbicide.

After Harvest Application (Fall Fallow): Application of **Willowood Metribuzin 4SC** may be made to the stubble after harvest in the Fall. Make application at 1 ¼ to 1 ½ pts. per acre broadcast before weeds emerge. Use higher labeled rate for longer weed control or for weeds designated as requiring the higher rate for control. Rainfall (½ inch or more) is necessary for herbicide activation.

Spring Application (Summer Fallow): Application of **Willowood Metribuzin 4SC** may be made to the stubble in the Spring. Make application at ¾ - 1 pt. per acre broadcast before weeds emerge in the Spring. Use higher labeled rate for longer weed control or weeds designated as requiring higher rate for control. Rainfall (½ inch or more) is necessary for herbicide activation. Wheat or barley can be seeded 120 days after Spring application.

Use Restrictions - Fallow Rotation with Barley and Wheat

- Do not plant crops in treated areas earlier than 10 months following Fall applications.
- Do not graze treated fields.
- Do not plant Spring seeded barley following Fall applications for fallow.
- Where **Willowood Metribuzin 4SC** was applied in the Fall, do not make application of **Willowood Metribuzin 4SC** in the Spring.
- Do not rotate any crop not listed on this label for 18 months following application.

See the other product label registered for additional directions, rates, and weed species controlled.

Weeds Controlled - Fallow Rotation with Barley and Wheat

Broadleaves	
Chickweed, Common (<i>Stellaria media</i>) Cowcockle (<i>Vaccaria pyramidata</i>) Henbit (<i>Lamium amplexicaule</i>) Kochia* (<i>Kochia scoparia</i>) Lambsquarters (<i>Chenopodium album</i>) Mustard, Blue or Purple (<i>Chorispura tenella</i>) Mustard, Jim Hill (<i>Sisymbrium altissimum</i>)	Mustard, Tansy (<i>Descurainia pinnata</i>) Mustard, Treacle (<i>Erysimum repandum</i>) Mustard, Wild (<i>Brassica kaber</i>) Pennycress, Field (Fanweed) (<i>Thlaspi arvense</i>) Pigweeds (<i>Amaranthus</i> spp.) Russian Thistle (<i>Salsola iberica</i>) Sunflower (<i>Helianthus</i> spp.)
Grasses	
Cheatgrass (<i>Bromus secalinus</i>) Brome, Downy (<i>Bromus tectorum</i>) Foxtail, Green* (<i>Setaria viridis</i>)	Oats, Wild * (<i>Avena fatua</i>) Wheat, Volunteer* (<i>Triticum</i> spp.)
*Since control of these weeds may be variable depending on moisture following application, the higher label rate should be used.	

**SUGARCANE
(Florida Only)**

Post-emergence over-the-top or directed spray applications of **Willowood Metribuzin 4SC** may be used for the control of the following weeds in sugarcane in Florida:

Broadleaves	
Amaranth, Spiny (Seedling) (<i>Amaranthus spinosus</i>) Butterweed (Cressleaf Groundsel) (<i>Senecio glabellus</i>)	Cudweed (<i>Gnaphalium</i> spp.) Purslane (<i>Portulaca oleracea</i>)
Grasses	
Crabgrass, Large* (<i>Digitaria sanguinalis</i>) Foxtail, Bristlegrass (<i>Setaria magna</i>) Goosegrass (<i>Eleusine indica</i>)	Panicum, Broadleaf (<i>Panicum adspersum</i>) Signalgrass, Broadleaf (<i>Brachiaria platyphylla</i>)
*Best control is achieved when applications are made when this weed is less than 4" in diameter.	

Willowood Metribuzin 4SC plus Atrazine Tank-Mix: Willowood Metribuzin 4SC may be used with atrazine as a pre-emergence or post-emergence (before row closing) application to sugarcane. Rates for Willowood Metribuzin 4SC are 1 ½ to 4 pts./acre and atrazine 80% WP (4L) are 2 ½ to 5 lbs./acre (2 to 4 qts./acre). For additional information on precautions, instructions, limitations, application, and weeds controlled, see this label and the atrazine label.

Use Precautions - Sugarcane (Florida Only)

- Spray contact with sugarcane foliage may result in minor leaf margin chlorosis and/or necrosis.
- Avoid spray overlaps or variations in application speed that may result in insufficient or excessive rates of application.
- To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Use Restrictions - Sugarcane (Florida Only)

- **Pre-Harvest Interval (PHI):** Do not make application within 60 days of harvest.
- Do not use treated crop for feed or forage.
- Do not use more than 4 pts. per acre in a single growing season.
- Do not use on sand soils.
- Do not rotate any crop not listed on this label for 18 months following application.

Applications - Sugarcane (Florida Only)	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
2 - 4	Ground Application: Willowood Metribuzin 4SC may be used in one or two applications with a minimum of 14 days between each application. Make application when weeds are less than 6" tall in 10 - 40 gals. of spray mixture per acre. Post-Emergence Broadcast or Band: Make application over the top of stubble or plant cane while sugarcane is less than 14" tall. Post-Emergence Directed Spray: Make application to sugarcane that is a minimum of 14" tall and before row closing.
2 - 3	Aerial Application: Make application when weeds are less than 4" tall in 5 - 10 gals. of spray mixture per acre. Make application to stubble or plant cane while the sugarcane is less than 14" tall.

SUGARCANE (Louisiana and Texas Only)

Pre-emergence and post-emergence applications of Willowood Metribuzin 4SC with aerial or ground spray equipment may be used for control of the following weeds in sugarcane in Louisiana and Texas:

Broadleaves	
Amaranth, Spiny (<i>Amaranthus spinosus</i>) Bindweed, Field (<i>Convolvulus arvensis</i>) Chickweed (<i>Cerastium vulgatum</i>) Henbit (<i>Lamium amplexicaule</i>) Lambsquarters (<i>Chenopodium album</i>) London Rocket (<i>Sisymbrium irio</i>)	Marestail (<i>Conyza canadensis</i>) Mustard, Wild (<i>Brassica kaber</i>) Pigweeds (<i>Amaranthus</i> spp.) Purslane (<i>Portulaca oleracea</i>) Sowthistle (<i>Sonchus</i> spp.)
Grasses	
Crabgrass (<i>Digitaria sanguinalis</i>) Foxtails (<i>Setaria</i> spp.) Johnsongrass, Seedling (<i>Sorghum halepense</i>)	Oats, Winter (<i>Avena</i> spp.) Signalgrass, Broadleaf (<i>Brachiaria platyphylla</i>)

Use Precautions - Sugarcane (Louisiana and Texas Only)

- Use the higher labeled rate on heavy clay soil and soil with a high percentage of organic matter.
- If necessary, a third application may be made in late Spring at layby.
- To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Use Restrictions - Sugarcane (Louisiana and Texas Only)

- **Pre-Harvest Interval (PHI):** Do not make application within 60 days of harvest.
- Do not use treated foliage for feed or forage.
- Do not use more than 4 pts. per acre in a single growing season.
- For aerial and chemigation application methods on sugarcane the maximum application rate is 4 pints per acre.
- Do not rotate any crop not listed on this label for 18 months following application.

Applications - Sugarcane (Louisiana and Texas Only)	
Willowood Metribuzin 4SC (Pts./Acre)	Directions
3 - 6	Broadcast: Make application at specified use rate per acre using 20 - 30 gals. of water with ground equipment or 5 gals. of water with aircraft spray equipment. Make application as a broadcast spray

	during the Fall after planting or to the stubble after harvest. Make a second application early in the Spring.
1 ½ - 3	Band: Make application at specified use rate in 10 - 20 gals. of water per acre in a 30 - 36" band over-the-row during the Fall after planting or to the stubble after harvest. Make a second application early in the Spring.

SUGARCANE (Hawaii Only)

Willowood Metribuzin 4SC, a selective herbicide, is effective as a pre-emergence and an early post-emergence broadcast application for control of certain grass and broadleaf weeds. When applied as a spot treatment, it also provides excellent control of perennial grasses and broadleaves.

Ground Application: Willowood Metribuzin 4SC should be mixed by filling the spray tank half full of clean water. Then add the specified amount of Willowood Metribuzin 4SC to suit the total tank capacity and the rate of application per acre (preferably 25 - 35 gals. per acre). Complete filling the tank and maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.

Aerial Application: Willowood Metribuzin 4SC may be used in aerial spray equipment as a pre-emergence or post-emergence application to irrigated sugarcane. Calibrate aerial spray equipment to apply the proper amount of Willowood Metribuzin 4SC in 7 - 10 gals. of spray mixture per acre.

For aerial and chemigation application on sugarcane, the maximum application rate is 4 pts. Willowood Metribuzin 4SC/acre.

To assure that spray will not adversely affect adjacent sensitive non-target plants, make application of this product by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Willowood Metribuzin 4SC applied pre-emergence or post-emergence to the sugarcane as a broadcast spray or spot treatment will effectively control the following when weeds are less than 3" in height.

Use Restrictions - Sugarcane (Hawaii Only)

- Do not make application of more than 16 pts. (2 gals.) of Willowood Metribuzin 4SC (8 lbs. a.i.)/acre per crop cycle regardless of the method of application. The last application may be made up to 17 months of harvest.
- Do not use treated foliage for feed or forage.

Weeds Controlled - Sugarcane (Hawaii Only) - Irrigated & Non-Irrigated

Broadleaves	
Amaranth, Spiny (<i>Amaranthus spinosus</i>) Euphorbia, Wild (<i>Euphorbia</i> spp.) Fireweed (<i>Erechtites hieraciifolius</i>)	Floras Paintbrush (<i>Emilia sonchifolia</i>) Spurge, Garden (<i>Euphorbia hirta</i>) Spurge, Graceful (<i>Euphorbia glomerifera</i>)
Grasses	
Crabgrass (<i>Digitaria</i> spp.) Guineagrass (<i>Panicum maximum</i>) Plushgrass (<i>Chloris radiata</i>)	Ricegrass (<i>Oryzopsis hymenoides</i>) Wiregrass (<i>Eleusine indica</i>)

Weeds Controlled - Sugarcane (Hawaii Only) - Irrigated

Broadleaves	
Amaranth, Spleen (<i>Amaranthus dubius</i>) Haole Koa (<i>Leucaena leucocephala</i>) Hialoa (<i>Leucaena leucocephala</i>)	Hilahila (<i>Mimosa pudica</i>) Purslane, Common (<i>Portulaca oleracea</i>) Rattlepod (<i>Crotalaria spectabilis</i>)
Grasses	
Alexandergrass (<i>Brachiaria plantaginea</i>)	Foxtail, Bristly (<i>Setaria verticillata</i>)

Weeds Controlled - Sugarcane (Hawaii Only) - Non-Irrigated

Broadleaves	
Ageratum (<i>Ageratum conyzoides</i>) Richardia (<i>Richardia brasiliensis</i>)	Tarweed (<i>Cuphea carthagenensis</i>)

Broadcast Applications - Sugarcane (Hawaii Only)

Willowood Metribuzin 4SC (Pts./Acre)	Directions
Non-Irrigated 4 - 8 (½ - 1 gal.)	Pre-Emergence (Irrigated and Non-Irrigated Sugarcane): Make application at specified use rate per acre as a broadcast spray to the soil surface. Applications should be made within 2 weeks after planting prior to cane emergence or shortly after emergence (spike stage).
Irrigated 8 - 12 (1 - 1 ½ gals.)	Early Post-Emergence (Irrigated and Non-Irrigated Sugarcane): Make application at specified use rate per acre as a broadcast spray over the cane. Application may be delayed as long as 4 to 6 weeks after planting provided weeds are less than 3" in height.
4 - 8	-OR-

(½ - 1 gal.)	Post-Emergence: Make application at specified use rate per acre as a broadcast spray to control weeds prior to “close in” time when cane shades out the weed growth.
5 - 10 (1 ⅛ - 1 ¼ gals.)	Spot Treatment: Make application at specified use rate in 30 - 50 gals. of finished spray per acre. Spot treatments may be used to control weeds in missed areas, corners of fields, or areas of hard-to-control weeds.

TOMATOES

Make application of **Willowood Metribuzin 4SC** with ground equipment to seeded and transplanted tomatoes as specified below under “**Directions**”.

For effective control of grasses and broadleaf weeds with post-emergence applications, apply treatment of **Willowood Metribuzin 4SC** before weeds are 1-inch tall. Thorough spray coverage on weed foliage is essential for adequate control with post-emergence applications.

See the appropriate section of this label for additional information regarding spray equipment, dilution rates, mixing, sprayer clean-up, restrictions, container disposal, and cautions.

For specific application information see the “**PRODUCT INFORMATION**” section in the front of this label.

Use Precautions - Tomatoes

- Crop injury or delayed maturity may result from broadcast or directed spray applications if tomatoes are growing under stress conditions such as periods of drought or cool, wet and cloudy weather preceding application.
- For newly introduced tomato varieties with unknown tolerance to **Willowood Metribuzin 4SC**, treat only a small area to determine if **Willowood Metribuzin 4SC** can be used without injury to the crop.

Use Restrictions - Tomatoes

- Aerial application is prohibited.
- Do not use air blast or other high pressure spray equipment to make post-emergence applications of **Willowood Metribuzin 4SC**.
- Do not make application of more than a total of 2 pts. **Willowood Metribuzin 4SC** per crop season.
- Do not apply the total amount of 2 pts. **Willowood Metribuzin 4SC** within a time span of less than 35 days, except in the case of directed sprays.
- **Pre-Harvest Interval (PHI):** Do not make application within 7 days of harvest.
- Do not make application within 3 days after periods of cool, wet or cloudy weather, or crop injury will occur.
- Do not use hot caps on tomatoes within 7 days before or at any time after application of **Willowood Metribuzin 4SC**.
- Do not treat seeded tomatoes until plants have reached the 5- to 6-leaf stage or severe crop injury may occur.
- Allow at least 14 days between applications, regardless of use rate or method of application or severe crop injury may occur.
- **DO NOT USE WILLOWOOD METRIBUZIN 4SC ON TOMATOES IN KERN COUNTY, CALIFORNIA.**

Weeds Controlled – Chemical Fallow Application on Fields to be planted with tomatoes (California only)

Make application of **Willowood Metribuzin 4SC** as a chemical fallow ground treatment to fields that will be planted to tomatoes.

Ground Application	
Broadleaves	Willowood Metribuzin 4SC (Pts./Acre)
Chickweed, common Lambsquarters London Rocket Mustard, wild Pigweed, Redroot Purslane, Common Shepherdspurse	1 – 1 ½

One fallow treatment may be made up to 90 day before planting. Make application at 1 – 1 1/2 Pts./Acre by ground equipment in a minimum of 10 gallons water/acre. A minimum of 2 inches of rain or irrigation are needed between treatment and planting. Additional cultivation may be necessary for seed bed preparation and weed control before planting. Use the lower rate in the range for soils with 0.5 to 2% organic matter and higher rates in the range for soils that have greater than 2% organic matter.

Precautions:

Avoid leveling, land planning, etc. between application and planting because concentrating treated soil may cause crop injury. Applications should not be made when weather conditions favor spray drift especially in areas where sensitive crops are growing in adjacent fields, or injury may occur. Light soils, alkaline soils or water, soil high in soluble salts, cold germination and/or growing conditions and interaction with other herbicides may harm tomatoes and require lower rates or longer pre-plant intervals.

Apply with properly calibrated equipment for uniform coverage of soil. Spray booms must be shut off while starting, turning, slowing or stopping, or crop injury may result. Do not overlap spray applications. Continuous agitation is required in the spray tank to keep material in suspension.

Restrictions:

- Do not make application of more than 1 pt. **Willowood Metribuzin 4SC** as a broadcast or directed spray on established tomatoes after an application of **Willowood Metribuzin 4SC** as a fallow spray.
- DO NOT USE **Willowood Metribuzin 4SC** ON TOMATOES IN KERN COUNTY, CALIFORNIA.

Weeds Controlled - Pre-Plant Incorporated Applications - Transplant Tomatoes Only

Broadcast Spray	
Broadleaves	Willowood Metribuzin 4SC (Pt./Acre)
Galinsoga (<i>Galinsoga</i> spp.) Lambsquarters (<i>Chenopodium album</i>) Pigweed, Redroot* (<i>Amaranthus retroflexus</i>) Purslane, Common* (<i>Portulaca oleracea</i>)	½ - 1
Grasses	
Goosegrass* (<i>Eleusine indica</i>)	

Pre-Plant Incorporated Applications: Applied as directed will suppress foxtails, panicums, and barnyardgrass.
Willowood Metribuzin 4SC/Trifluralin Tank-Mix: This tank-mix combination applied pre-plant incorporated as directed on this label will control the weeds listed above plus those weeds listed on the trifluralin label.
 *For optimum control of these weeds, use the highest rate specified on the label for the type of application to be made. Repeat post-emergence applications may be needed for best control.

Weeds Controlled - Post-Emergence Applications - Established Tomatoes

For effective control of weeds with post-emergence applications, make application of **Willowood Metribuzin 4SC** before weeds are 1-inch tall.

Broadcast Spray	
Broadleaves	Willowood Metribuzin 4SC (Pts./Acre)
Carpetweed (<i>Mollugo verticillata</i>) Fumitory (<i>Fumaria officinalis</i>) Galinsoga (<i>Galinsoga</i> spp.) Jimsonweed* (<i>Datura stramonium</i>) Ladysthumb* (<i>Polygonum persicaria</i>) Lambsquarters (<i>Chenopodium album</i>) Mustard, Wild (<i>Brassica kaber</i>) Pigweed (<i>Amaranthus</i> spp.) Purslane (<i>Portulaca oleracea</i>) Ragweed, Common* (<i>Ambrosia artemisiifolia</i>) Smartweed, Pennsylvania* (<i>Polygonum pennsylvanicum</i>) Toadflax (<i>Linaria</i> spp.) Velvetleaf* (<i>Abutilon theophrasti</i>)	½ - 1
Grasses	
Foxtail, Yellow* (<i>Setaria glauca</i>) Goosegrass (<i>Eleusine indica</i>) Including Weeds listed under the above 'Broadcast Spray'.	1 - 2

Post-Emergence Applications: Applied as directed on this label will suppress barnyardgrass and crabgrass when these weeds are less than 1-inch tall.
 *For optimum control of these weeds, use the highest use rate specified on the label for the type of application to be made. Repeat post-emergence applications may be needed for best control.

Broadcast Applications - Tomatoes	
Willowood Metribuzin 4SC (Pts./Acre)*	Directions
½ - 1	Pre-Plant Incorporated - Transplant Tomatoes Only: Make application at specified use rate in 10 or more gals. of water per acre as a broadcast spray to the soil surface immediately before transplanting. Incorporate to a depth of 2 to 4" with equipment capable of uniformly mixing the chemical into the soil. This application may be made alone or in a tank-mix combination with trifluralin. When transplanting tomatoes, place the root system of the plants below the herbicide

	incorporation zone or injury may result. See the trifluralin label for specific rate of application and for additional precautions and restrictions for tomatoes.
½ - 1	Post-Emergence Broadcast Spray - Established Tomatoes: Make application at specified use rate in 20 or more gals. of water per acre as a broadcast spray, or make application in ¼ to ¾ inch of water (use ¼ to ½ inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or make application in the last 15 to 30 minutes of set in permanent solid set sprinkler systems. One or more applications may be applied per use season. Allow at least 14 days between applications or severe crop injury may result. For transplanted tomatoes, do not make application until transplants have recovered from transplant shock and new growth is evident. Do not make application to tomatoes within 24 hours of application of other pesticides. Do not tank-mix with other pesticides. See additional Use Precautions & Restrictions above.
1 - 2	Post-Emergence Directed Spray - Established Tomatoes: Make application at specified use rate in 20 or more gals. of water per acre as a directed spray. One or more applications may be applied per use season. Allow at least 14 days between applications or severe crop injury may result. Avoid contacting tomato foliage with spray. This method of treatment should be used for use in fields with a history of severe weed pressure or in fields infested with hard-to-control weeds. For transplanted tomatoes, do not make application until transplants have recovered from transplant shock and new growth is evident. Do not make application to tomatoes within 24 hours of application of other pesticides. When banding see the appropriate section in the front of this label. See additional Use Precautions & Restrictions above.
*Use the higher labeled use rate in fields with a history of severe weed pressure and for maximum residual weed control.	

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Non-Refillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 gals.): Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Non-Refillable Plastic and Metal Containers (Capacity Greater Than 5 gals.): Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Non-Refillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Non-Refillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Non-refillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Offer for recycling, if available, or dispose empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with this herbicide only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not

burn, unless allowed by State and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with this herbicide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

Outer Foil Pouches of Water Soluble Packets (WSP): Non-refillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

IMPORTANT: READ BEFORE USE
CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the unopened product container at once.

By using the product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks 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 the manner of use or application, all of which are beyond the control of Willowood, LLC. To the extent consistent with applicable law, such risks shall be assumed by the user or buyer.

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