

# **CONTROL OF ALS-RESISTANT CHICKWEED IN CEREAL (WINTER BARLEY AND WINTER WHEAT): 3 LEAF TO 4 TILLER - MEDIUM SOIL (0.75 TO 2.0 % ORGANIC MATTER) - PENNSYLVANIA**

## General Information

### GENERAL INFORMATION

MIXING: When using Dimetric EXT, make sure the sprayer is completely clean, free of rust or corrosion which occurs from winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing Dimetric EXT should be kept agitated and sprayed out immediately. Do not allow tank mixes to stand for prolonged periods of time.

The proper mixing procedure for Dimetric EXT alone or in tank mix combinations with other herbicides is:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. Add specified rate of Dimetric EXT while recirculating and with agitator running.
3. Follow the triple rinse procedure described under "STORAGE AND DISPOSAL" to insure that all product is removed from the container.
4. Mix thoroughly and add clean water to fill spray tank to desired level.
5. Add the other herbicide to tank last and agitate thoroughly.
6. Continue agitation during application and until sprayer tank is empty.

This product can be tank mixed with 2,4-DB, 2,4-D Low Volatile Ester (LVE), Alachlor, Ally, Amber, Atrazine, Banvel, Basagran, Broadstrike Plus, Bronate, Buctril, Bullet, Canopy, Clarity, Command, Commence, Detail, Eptam, Finesse, Freedom, Frontier, Fusion, Glean, Gramoxone, Guardsman, Harmony Xtra, Harness, Harness Xtra, Laddok S-12, Lariat, Lasso, Linex, Linuron, Marksman, Matrix, MCPA, Metolachlor, S-Metolachlor, Pentagon, Poast, Prowl, Pursuit, Pursuit Plus, Ramrod, Resource, Roundup, Roundup Ultra, Scepter, Scorpion, Select, Simazine, Squadron, Sonalan, Surflan, Surpass, Surpass 100, Topnotch, Touchdown, Tough, Treflan, or Turbo in accordance with the most restrictive of label limitations and precautions. Do not exceed label dosage rates.

This product cannot be mixed with any product containing a label prohibition against such mixing. Refer to the crop specific information section of this label for

additional information.

**SOIL TEXTURE:** As used on this label, “Coarse soils” are sand, loamy sand or sandy loam soils. “Medium soils” are loam, silt loam, silt, sandy clay, or sandy clay loam. “Fine soils” are silty clay, silty clay loam, clay, or clay loam. Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

#### GENERAL PRECAUTIONS AND RESTRICTIONS

- Do not allow sprays to drift on to adjacent desirable plants.
- Apply 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 Dimetric EXT.
- For all uses: Low-pressure and high-volume hand-wand equipment is prohibited.

#### CHEMIGATION

Dimetric EXT may be used for application through sprinkler irrigation equipment to potatoes, soybeans, tomatoes, and asparagus as directed on this label. Refer to 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 apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

**Calibration: (Center Pivot and Self-Propelled Lateral Move Systems):** Sprinkler irrigation systems must be accurately calibrated for application of Dimetric EXT.

Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of a more dilute mixture of product and water per hour. Follow the steps below to calibrate center pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 1/4 to 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 Dimetric EXT at the specified rate (See BROADCAST APPLICATIONS) to the nurse tank.

EXAMPLE: If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject one gallon, then a total of 600 gallons of productwater mixture are required ( $1200/2 = 600$ ); to treat 135 acres at 2/3 lb/acre, 90.5 lb of Dimetric EXT are required.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

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 inter lock 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 herbicide application, sufficient to keep herbicide in suspension. Apply specified dosage in 1/4 to 3/4 inch of water (1/4 to 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 insure greater accuracy and more uniform distribution.

#### APPLICATION OF Dimetric EXT 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 Dimetric EXT in a minimum of 10 to 40 gallons of spray mixture per acre broadcast.

**Banded Application:** Use proportionally less Dimetric EXT per acre in a band versus a broadcast application. For band application use 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 one-half of the broadcast rate of Dimetric EXT. (2) To treat a 14-inch band on rows 42 inches apart, use one-third of the broadcast rate of Dimetric EXT.

**AERIAL APPLICATION:** Where permitted, apply 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 apply aerially when Dimetric EXT is tank mixed with Lasso.  
For All Applications of Dimetric EXT: Sprayer must be accurately calibrated before applying Dimetric EXT. Check sprayer during 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 over application, misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result.)

Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not apply 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 CLEANUP: 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 Dimetric EXT 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 twice.

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 Dimetric EXT IN FLUID FERTILIZERS

Dimetric EXT may be applied 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.

Compatibility checks of Dimetric EXT and tank mix combinations which include Dimetric EXT should be made for each batch of fluid fertilizer because of the variability of these fertilizers.

#### Compatibility Check:

1. Pre-mix 2 teaspoonfuls of Dimetric EXT with 8 teaspoonfuls of water (1:4 ratio) in a quart jar by adding the water first and follow with Dimetric EXT. 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 Dimetric EXT first.

2. Then pour 1 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.

THIS COMPATIBILITY CHECK SHOULD ONLY BE USED 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 twice 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 mixing Guidelines:

1. Add the required amount of water and compatibility agent (if required) to the tank. Start agitation system while adding Dimetric EXT 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 twice the amount of water. Start agitation and add Dimetric EXT 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.

COMMERCIAL IMPREGNATION AND APPLICATION OF Dimetric EXT ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with Dimetric EXT 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 Dimetric EXT except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Apply 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 Dimetric EXT 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 Dimetric EXT 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 Dimetric EXT, mix and impregnate immediately.

Apply immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

Rates: Select the specified rate of Dimetric EXT per acre from the appropriate section of this label and refer to the formula below to determine the amount of Dimetric EXT which is to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be distributed on one acre.

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 correct method of application is to apply 1/2 the specified rate and overlap 50 percent 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 prior to impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may occur where the impregnated fertilizer is not uniformly applied.

INCORPORATION AND COMBINATION USES: When Dimetric EXT is to be used in combination with another herbicide, follow directions on this label for combinations, rates, crops, incorporation, and special precautions.

Limitations, Restrictions, and Exceptions

FOR CONTROL OF ALS-RESISTANT CHICKWEED IN CEREAL - WINTER BARLEY AND WINTER WHEAT - PENNSYLVANIA

DIRECTIONS FOR USE

Mixing: See the "General Information" section of the Dimetric EXT container label for specific mixing procedures. When tank-mixing, carefully follow the instructions

on this label. Refer to the other product labels registered for use in winter barley and winter wheat for additional use directions, rates, weeds controlled and restrictions.

**Application:** Dimetric EXT may be applied 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 apply Dimetric EXT through any type of irrigation equipment. Apply Dimetric EXT when the crop is healthy and actively growing. Dimetric EXT 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 10.66 ounces Dimetric EXT (8 ounces active ingredient) 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 should 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 1/2 inch) is required within 2 to 3 weeks after application to move Dimetric EXT 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.

**Tank-mixtures:** Dimetric EXT may be tank-mixed with 2,4-D, Axial XL, Finesse, Harmony, Harmony Extra, Huskie, MCPA, Moxy or other bromoxynil formulations, Osprey, Quelex, Sentrallas, Starane Ultra, Sterling Blue or other dicamba formulations herbicides. A nonionic surfactant containing at least 80% active ingredient may be used in Dimetric EXT tank-mixes with sulfonyleurea herbicides. Do not use a crop oil concentrate or any adjuvant containing vegetable or petroleum oils with any Dimetric EXT mix as crop injury may result. Additional pesticides may also be tank-mixed with Dimetric EXT 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 cereals for additional directions, rates and weed species controlled. Observe all precautions and limitations on labeling of all products used in mixtures.

Feeding Restrictions: Do not graze wheat within 14 days of Dimetric EXT 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.

**SPECIAL PRECAUTIONS:** Cereal Injury - Crop injury may occur if Dimetric EXT is applied.

1. 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.
2. In combination with fluid fertilizer especially with the addition of surfactant.
3. Prior to the growth stage specified on this label.
4. To soils high in lime or sodium, a pH greater than 7.7, calcareous, gravelly, thinly covered or exposed subsoil areas.
5. To fields where cereal seeds have been planted less than 1 inch deep.
6. To a non-winter hardy wheat or barley variety.
7. To a sensitive wheat or barley variety as listed below.
8. To frozen soil or crop still in winter dormancy.

Cereal Rotations Following Potatoes Treated with Dimetric EXT: If planting a sensitive cereal variety following potatoes treated with Dimetric EXT or Metribuzin containing products, refer to the potato section of the Dimetric EXT container label for special cultural practices to follow.

#### APPLICATION DIRECTIONS

Dimetric EXT alone or in a tank-mix with labeled broadleaf herbicides may be applied by aerial or ground spray equipment as a broadcast postemergence spray.

- Do not apply within 2 weeks after grazing or breaking of winter dormancy. Apply 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 allowable rate to achieve maximum weed suppression/control.

#### WHEAT AND BARLEY VARIETAL TOLERANCE\*

Wheat and barley varieties vary in their tolerance to Dimetric EXT. To avoid possible crop injury, contact a Winfield Solutions, LLC representative or herbicide expert for a variety recommendation prior to treatment or treat a small strip of the variety with the specified Dimetric EXT rate to ascertain crop tolerance before treating an entire field.

#### WEEDS CONTROLLED

Used at specified rates, Dimetric EXT will control many annual broadleaf weeds. Control is best when applied to young, actively growing weeds. Weeds controlled by

Dimetric EXT include:

Chickweed, Common\*

Chickweed, Mouseear\*

\*For optimal control, apply up to weeds < 4 inches.

For CROP ROTATION RESTRICTIONS see table in the label.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Restricted Entry Interval

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.

#### Soils

[Medium](#)

[Loam](#)

[Silt Loam](#)

[Silt](#)

[Sandy Clay Loam](#)

[Sandy Clay](#)

Timings

[Postemergence \(Crop\)](#)

[Postemergence \(Crop\)](#)