

# **GARBANZO BEANS (CHICKPEAS) - CALIFORNIA, IDAHO, OREGON, AND WASHINGTON**

## 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, Allyh, 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 aurally when wind speed is greater than 10 mph.

**NOTE:** Do not apply aurally 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

#### GARBANZO BEANS (CHICKPEAS)

California, Idaho, Oregon, and Washington

Special Conditions of Sale for Use on Garbanzo Beans (Chickpeas): 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 Bayer CropScience. Buyer is advised that Winfield Solutions, LLC makes no assurances regarding satisfaction with the product and that to the extent consistent with applicable law all risks of crop injury or product performance are assumed by the Buyer.

Dimetric EXT herbicide may be used as a preemergence application for the suppression of certain broadleaf weeds in garbanzo beans.

#### APPLICATIONS

Apply specified dosage in a single preemergence application using 10 to 40 gallons of water per acre with ground spray equipment. Apply 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 Dimetric EXT into the top 1 to 2 inches of soil with spike harrows, or similar shallow incorporation equipment, then cross harrow to insure 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 on coarse-textured soils, sandy soils or any soil with less than 1.5% organic matter will likely cause crop injury.



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

**SPECIAL PRECAUTIONS:**

- 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 1/2 inch of irrigation within one month after application of Dimetric EXT, or crop injury may occur.
- Do not use on clay knobs or poorly covered subsoils.
- Do not apply preemergence on shallow seedings less than 2 inches deep.
- Do not graze or feed treated vines to livestock within 40 days after application.
- 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.

NOTE: This treatment may cause some chlorosis or minor necrosis. Because garbanzo bean varieties may vary in their susceptibility to Dimetric EXT, determine crop tolerance prior to adoption as a field scale practice to prevent possible injury.

Method

[Broadcast/Foliar Ground](#)

Timings

[Postemergence \(Crop\)](#)

[Preplant](#)

[Preemergence \(Weed\)](#)

[Postplant](#)