

# **CORN (FIELD, POP, SEED, AND SILAGE) - PREEMERGENCE APPLICATION IN CONVENTIONAL OR REDUCED TILLAGE CORN**

## General Information

### PRODUCT INFORMATION

DICAMBA HD is a water-soluble formulation intended for control and suppression of many annual, biennial, and perennial broadleaf weeds, as well as woody brush and vines listed in Table 1. General Weed List, Including ALS- and Triazine-Resistant Biotypes.

DICAMBA HD may be used for control of these weeds in asparagus, corn, cotton, conservation reserve programs, fallow cropland, forestry sites, grass grown for seed, hay, proso millet, pasture, rangeland, rights-of-way, general farmstead (non-cropland), small grains, sorghum, soy bean, sugarcane, and turf.

### Mode of Action

DICAMBA HD is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. DICAMBA HD interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

### Resistance Management

DICAMBA HD has a low probability of selecting for resistant weed biotypes.

### Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner, according to the manufacturer's directions, and then triple rinsing the equipment before and after applying this product.

### APPLICATION INSTRUCTIONS

DICAMBA HD can be applied to actively growing weeds as aerial, broadcast, band, or spot spray applications using water or sprayable fertilizer as a carrier. For general DICAMBA HD application rates for control or suppression by weed type and growth stage see Table 2. General DICAMBA HD Application Rates for Control or Suppression by Weed Type and Growth Stage. For crop-specific application timing and other details, refer to section VI. Crop-Specific Information.

To avoid uneven spray coverage, DICAMBA HD should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid off-target movement. Use extreme care when applying DICAMBA HD to prevent injury to desirable plants and shrubs.

#### Cultivation

DO NOT cultivate within 7 days after applying DICAMBA HD.

#### Sensitive Crop Precautions

DICAMBA HD may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems, or foliage. These plants are most sensitive to DICAMBA HD during their development or growing stage.

#### Recommendations to avoid herbicide drift

- Use coarse sprays (volume median diameter of 400 microns or more) to avoid potential herbicide drift. Select nozzles that are designed to produce minimal amounts of fine spray particles (less than 200 microns). Examples of nozzles designed to produce coarse sprays via ground applications are Delavan Raindrops, Spraying Systems XR (excluding 110° tips) flat fans, Turbo Teejets, Turbo Floodjets, or large capacity flood nozzles such as D10, TK10, or greater capacity tips.
- Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gallons per acre (for ground broadcast applications), unless otherwise required by the manufacturer of drift-reducing nozzles. Consult your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally-approved drift-reducing additives may be used.

#### Aerial Application Methods and Equipment

Water Volume: Use 1–10 gallons of water per acre (2– 20 gallons of diluted spray per treated acre for preharvest uses). Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Make aerial applications at the lowest safe height to reduce

exposing the spray to evaporation and wind.

The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling, as well as state and local regulations and ordinances.

DO NOT use aerial equipment if spray particles can be carried by the wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

#### Ground Application (Banding)

When applying DICAMBA HD by banding, determine the amount of herbicide and water volume needed using the formula given in the label.

#### Ground Application (Broadcast)

Water Volume: Use 3 – 50 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

#### Ground Application (Wipers)

DICAMBA HD may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush, and vines. Use a solution containing 1 part DICAMBA HD to 1 part water. DO NOT contact desirable vegetation with herbicide solution. Wiper application may be made to crops (including pastures) and non-crop land areas described in this label with the exception of cotton, sorghum, and soybean.

#### ADDITIVES

To improve postemergence weed control, agriculturally approved surfactants, sprayable fertilizers (urea ammonium nitrate, or ammonium sulfate), or crop oil concentrate may be added, particularly in dry growing conditions. (Refer to Table 3. Additive Rate Per Acre.)

#### Nitrogen Source

- Urea ammonium nitrate (UAN): Use 2 – 4 quarts of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per acre. DO NOT use brass or aluminum

nozzles when spraying UAN.

- Ammonium sulfate (AMS): AMS at 2.5 pounds per acre may be substituted for UAN. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned. Albaugh does not recommend applying AMS, if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

#### Nonionic Surfactant

The standard label recommendation is 1 pint of an 80% active nonionic spray surfactant per 100 gallons of water. For certain weeds, a higher spray surfactant rate is recommended.

#### Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly-refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see Compatibility Test for Mix Components.

Adjuvants containing crop oil concentrates may be used in preplant, preemergence, and preharvest application, as well as in pastures and non-cropland. DO NOT use crop oil concentrate for postemergence in-crop applications unless specifically allowed in section VI. Crop- Specific Information of this label.

#### RESTRICTIONS AND LIMITATIONS

- Maximum seasonal use rate: Refer to Table 4. Crop-Specific Restrictions and

Limitations for crop-specific maximum seasonal use rates. DO NOT exceed 64 fluid ounces of DICAMBA HD (2 pounds acid equivalent) per acre, per year.

- Preharvest Interval (PHI): Refer to section VI. Crop-Specific Information for preharvest intervals.

- Restricted-Entry Interval (REI): 24 hours

#### Crop Rotational Restrictions:

The interval between application and planting rotational crop is given below. Always exclude counting days when the ground is frozen. Planting at intervals less than specified below may result in crop injury. Moisture is essential for the degradation of this herbicide in soil. If dry weather prevails, use cultivation to allow herbicide contact with moist soil.

Planting/replanting restrictions for DICAMBA HD applications of 24 fluid ounces per acre or less: No rotational cropping restrictions apply at 120 days or more following application. Additionally, for annual crop uses in this label including corn, cotton, sorghum, and soybean, follow the preplant use directions in section VI. Crop-Specific Information. For barley, oat, wheat, and other grass seedings, the interval between application and planting is 15 days per 8 fluid ounces per acre applied east of the Mississippi River and 22 days per 8 fluid ounces per acre west of the Mississippi River.

Planting/replanting restrictions for applications of more than 24 fluid ounces and up to 64 fluid ounces of DICAMBA HD per acre: Corn, sorghum, cotton (east of the Rocky Mountains) and all other crops grown in areas with 30" or more of annual rainfall may be planted 120 days or more after application. Barley, oat, wheat, and other grass seedings, may be planted if the interval from application to planting is 30 days per 16 fluid ounces per acre east of the Mississippi River and 45 days per 16 fluid ounces per acre west of the Mississippi River. For all other crops in areas with less than 30" of annual rainfall, the interval between application and planting is 180 days or more.

- Rainfast period: Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce the effectiveness of DICAMBA HD.

- Stress: DO NOT apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures as injury may result.

- DO NOT apply through any type of irrigation equipment. DO NOT treat irrigation ditches or water used for crop irrigation or domestic purposes.

#### Limitations, Restrictions, and Exceptions

#### CORN (FIELD, POP, SEED, AND SILAGE)

Direct contact of DICAMBA HD with corn seed must be avoided. If corn seeds are less than 1.5" below the soil surface, delay application until corn has emerged.

Applications of DICAMBA HD to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3- 7 days. Cultivation should be delayed until after corn is growing normally to avoid break age.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity. Up to 2 applications of DICAMBA HD may be made during a growing season. Sequential applications must be separated by 2 weeks or more.

DO NOT apply DICAMBA HD to seed corn or popcorn without first verifying with your local seed corn company (supplier) the selectivity of DICAMBA HD on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Avoid using crop oil concentrates after crop emergence as crop injury may result. Use crop oil concentrates only in dry conditions when corn is less than 5" tall and when applying DICAMBA HD alone or tank mixed with atrazine.

Use of sprayable fluid fertilizer as the carrier is not recommended for applications of DICAMBA HD made after corn emergence.

DICAMBA HD is not registered for use on sweet corn.

#### PREEMERGENCE APPLICATION IN CONVENTIONAL OR REDUCED TILLAGE CORN:

Rates: Apply 16 fluid ounces of DICAMBA HD per treated acre to medium- or fine-

textured soils that contain 2.5% organic matter or more.

DO NOT apply to coarse-textured soils (sand, loamy sand, or sandy loam) or any soil with less than 2.5% organic matter until after corn emergence (see Early Postemergence uses below).

Timing: DICAMBA HD may be applied after planting and prior to corn emergence. Preemergence application of DICAMBA HD does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if the application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) that concentrate treated soil over seed furrow, as seed damage could result.

Preemergence control of cocklebur, jimsonweed, and velvetleaf may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

#### Corn Tank Mixes or Sequential Uses

When using tank mix or sequential applications with DICAMBA HD, always follow the companion product label to determine specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

#### Method

[Broadcast/Foliar Air](#)

[Spot treatment](#)

[Band](#)

[Broadcast](#)

#### Rates

[field\\_rates 0](#)

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#### Restricted Entry Interval

24 hours

#### Soils

[Medium](#)

Fine

Tillages

Conventional

Fallow/Reduced

Timings

Preemergence (Crop)