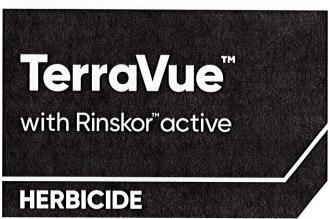
# Specimen Label

AMINOPYRALID GROUP 4 HERBICIDE FLORPYRAUXIFEN-BENZYL GROUP 4 HERBICIDE





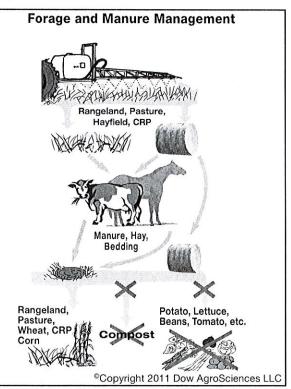
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For control of annual and perennial broadleaf weeds including invasive and noxious weeds, certain annual grasses, and certain woody plants and vines, on:

- rangeland, permanent grass pastures (including grasses grown for hay\*), and Conservation Reserve Program (CRP);
- non-crop areas for example, airports, barrow ditches, communication transmission lines, electric power and utility
  rights-of-way, fencerows, gravel pits, industrial sites, military sites, mining and drilling areas, oil and gas pads,
  non-irrigation ditch banks, parking lots, petroleum tank farms, pipelines, roadsides, railroads, storage areas, dry storm
  water retention areas, substations, and
- natural areas (open space) for example, campgrounds, parks, prairie management, trailheads and trails, recreation areas, wildlife openings, and wildlife habitat and management areas including seasonally dry flood plains, deltas, marshes, prairie potholes, or vernal pools;
- · including grazed areas in and around these sites.
- \* Hay from grass treated with TerraVue within the preceding 18 months can only be used on the farm or ranch where the product is applied unless allowed by supplemental labeling

#### IMPORTANT USE PRECAUTIONS AND RESTRICTIONS TO PREVENT INJURY TO DESIRABLE PLANTS

- Carefully read the section Restrictions in Hay or Manure Use.
- It is mandatory to follow the Use Precautions and Use Restrictions on this label.
- Manure and urine from animals consuming grass or hay treated with this product may contain enough aminopyralid and florpyrauxifen-benzyl to cause injury to sensitive broadleaf plants.
- Hay can only be used on the farm or ranch where product is applied unless allowed by supplemental labeling.
- Consult with a Dow AgroSciences representative if you do not understand the Use Precautions and Use Restrictions. Call 1-800-258-3033 Customer Information Group.



Active Ingredient: 2-pyridinecarboxylic acid, 4-amino-3,6-dichloro-, potassium salt ......71.01% florpyrauxifen-benzyl: 2-pyridinecarboxylic acid, 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxy-phenyl)-5-fluoro-, phenyl methyl ester..... ......100.00% Acid Equivalent: aminopyralid (2-pyridine carboxylic acid,

4-amino-3,6-dichloro-) 60%

Contains 0.71 pound potassium salt of aminopyralid and 0.06 pound florpyrauxifen-benzyl per pound of product.

### **Precautionary Statements**

### **Hazards to Humans and Domestic Animals**

EPA Reg. No. 62719-738

## Keep Out of Reach of Children CAUTION

Causes Moderate Eye Irritation. Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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.

Engineering Controls: When handlers use closed systems or enclosed cabs 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 thoroughly with soap and water after handling and 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 this product. Wash the
- outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **First Aid**

If in eyes: hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

#### **Environmental Hazards**

Do not apply directly to water. Take care to minimize the incidental overspray along the shoreline when applying to terrestrial plants at the water's edge or to water in areas where surface water is present. Do not apply directly to intertidal areas below the mean high water mark. Drift and runoff from ground or aerial applications is likely to result in damage to sensitive aquatic organisms in water bodies adjacent to the treatment area. Do not contaminate water when disposing of equipment washwater

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

#### **Directions for Use**

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

Read all Directions for Use carefully before applying.

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.

Not For Sale, Distribution, or Use in New York State.

Not for use on pastures in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. All other labeled uses are permitted in these states including grazed areas in and around



Light grey = states where use in pastures is not permitted Dark grey = NY where the product is not registered

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 12.850. 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 48 hours.

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

### Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 12.850). The WPS does not pertain to nonagricultural use on sites, such as, rangeland, permanent grass pastures, or non-cropland. See the Agricultural Use Requirements section below for information where the WPS applies.

Entry Restrictions for Non-WPS Uses: For applications on rangeland and permanent grass pastures (not harvested for hay) and non-cropland areas, do not enter or allow worker entry into treated areas until sprays have dried.

### Storage and Disposal

Do not contaminate water, food, feed, or fertilizer by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent

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

### Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to

Storage and Disposal (Cont.)

drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable containers larger than 5 gallons:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure 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 1/4 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### **Product Information**

### Resistance Management Guidelines

- Development of plant populations resistant to this herbicide mode of action is usually not a problem on rangeland, permanent grass pastures, or CRP since these sites receive infrequent pesticide applications.
- Similar looking biotypes of a given weed species occurring in a treated area may vary in their susceptibility to a herbicide. Application of a herbicide below its specified rate may allow more tolerant weeds to survive and a shift to more tolerant biotypes within the treated area.

 Where identified, spreading of resistant weeds to other fields may be prevented by cleaning harvesting and tillage equipment before moving to other areas and by planting weed-free seed.

- Scout before after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as mowing.
- Use tank mixtures with herbicides from a different group if such use
  is permitted. Where information on resistance in target weed species
  is available, use the less resistance-prone partner at a rate that will
  control the target weed(s) equally as well as the more resistance-prone
  partner. Consult your local extension service or certified crop advisor if
  you are unsure as to which active ingredient is currently less prone to
  resistance.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available
- Contact your extension specialist, certified crop consultant, or Dow AgroSciences representative for the latest resistance management information.

#### **Use Precautions**

Applications made during periods of intense rainfall, to soils saturated
with water, surfaces paved with materials such as asphalt or concrete,
or soils through which rainfall will not readily penetrate may result in
runoff and movement of TerraVue. Injury to crops may result if treated
soil and/or runoff water containing TerraVue is washed, or moved
onto land used to produce crops. Exposure to TerraVue may injure
or kill susceptible crops and other plants, such as grapes, soybeans,
tobacco, sensitive ornamentals.

Grass revegetation

TerraVue can be used to control broadleaf plants in grass revegetation programs. Consult Dow AgroSciences' literature for more details about TerraVue applications and grass stand establishment.

Application before seeding grasses

- Preemergence: Tall fescue, orchardgrass, timothy, and annual ryegrass can be reseeded after a minimum of 15 days following an application of 2.85 oz per acre of TerraVue. Sorghum-sudangrass, teff, crabgrass, and pearl millet can be seeded a minimum of 30 days following an application of 2.85 oz per acre of TerraVue. When using higher rates or on other grass species wait a minimum of 45 days after an application of TerraVue.
- Postemergence applications on grass: During the season of establishment, TerraVue should be applied only after perennial grasses are well established have developed a good secondary root system and show good vigor. Most perennial grasses are tolerant to TerraVue at this stage of development. TerraVue may suppress certain established grasses, such as smooth bromegrass (*Bromus inermis*), especially when plants are stressed by adverse environmental conditions. Plants should recover from this transient suppression with the onset of environmental conditions favorable to grass growth and upon release from weed competition. Tall fescue, orchardgrass, timothy, and annual ryegrass are tolerant of 2.85 oz per acre of TerraVue once plants have developed 3, collared leaves.
- Seeding Broadleaf Plants (Forbs) and Wildflowers
   TerraVue can be applied in the summer to control broadleaf weeds prior to forb planting. Forbs can be seeded 90 days after a summer application as a dormant fall planting or the following spring. Consult Dow AgroSciences literature for details.
- Field Bioassay Instructions: In fields previously treated with this product, plant short test rows of the intended rotational crop across the original direction of application in a manner to sample variability in field conditions such as soil texture, soil organic matter, soil pt/rainfall pattern, or drainage. The field bioassay can be initiated one year after the last application of aminopyralid and florpyrauxifen-benzyl in that field. Observe the test crop for symptoms of herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), epinasty, and necrosis (dead leaves or shoots), or stunting (reduced growth). If herbicidal symptoms do not occur, the test crop can be grown. If there is apparent herbicidal activity, do not plant the field to the intended rotational crop; plant only to wheat, forage grasses, native grasses or grasses grown for hay.

#### Pasture and Rangeland Restrictions

- Do not use grasses treated with TerraVue in the preceding 18 months for hay intended for export outside the United States.
- Hay and silage from areas treated with TerraVue in the preceding 18 months can NOT be distributed or made available for sale off the farm or ranch where harvested unless allowed by supplemental labeling.
- Hay from areas treated with this product in the preceding 18 months can NOT be used for silage, haylage, baylage, and green chop unless allowed by supplemental labeling.
- Do not move hay and silage made from grass treated with TerraVue within the preceding 18 months off farm unless allowed by supplemental labeling.
- Do not use hay, silage, and manure from areas treated with TerraVue within the preceding 18 months or manure from animals feeding on hay treated with TerraVue in compost.
- Do not use grasses treated with TerraVue in the preceding 18 months for seed production.

#### **Restrictions for All Uses**

- Do not reformulate or repackage this product into other end-use products.
- Do not treat frozen soil where runoff could damage sensitive plants.
- Use 2 or more gallons of spray solution per acre.
- Do not make more than two applications per year.
- Do not apply within 30 days of previous application.
  If grass is to be cut for hay, Agricultural Use Requirements for the
  Worker Protection Standard are applicable.
- Maximum Application Rate
- On all labeled use sites (except total vegetation control areas and non-crop areas that are not grazed or hayed), do not broadcast apply more than 2.85 oz per acre of TerraVue (0.126 lbs aminopyralid and 0.0106 lbs florpyrauxifen-benzyl) per year. The total amount of TerraVue applied broadcast, as a re-treatment, and/or spot treatment must not exceed 2.85 oz per acre. Spot treatments may be applied at an equivalent broadcast rate of up to 5.7 oz of TerraVue (0.252 lbs aminopyralid and 0.0213 lbs florpyrauxifen-benzyl) per acre per annual growing season; however, not more than 50% of an acre may be treated at that rate.
- For total vegetation control and non-crop areas that are not grazed or hayed, do not apply more than a total of 5.7 oz per acre of TerraVue (0.252 lbs aminopyralid and 0.0213 lbs florpyrauxifen-benzyl) per year as a result of broadcast, spot, or repeat applications.

Obtain Required Permits: Consult with appropriate state or local water authorities before applying this product around public waters. State or local public agencies may require permits.

Avoiding Injury to Non-Target Plants: Do not aerially apply

- TerraVue within 50 feet of a border downwind (in the direction of wind movement), or allow spray drift to come in contact with, any broadleaf crop or other desirable broadleaf plants, including, but not limited to, alfalfa, cotton, dry beans, flowers, grapes, lettuce, potatoes, radishes soybeans, sugar beets, sunflowers, tobacco, tomatoes or other broadleaf or vegetable crop, fruit trees, ornamental plants, or soil where sensitive crops are growing or will be planted. Avoid application under conditions that may allow spray drift because very small quantities of spray may seriously injure susceptible crops. Read and follow the Spray Drift Management and Spray Drift Advisories sections of this label. Chemigation: Do not apply this product through any type of
- irrigation system
- Do not contaminate water intended for irrigation or domestic purposes. Do not treat inside banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes.
- Do not apply this product to lawns, turf, ornamental plantings, urban walkways, driveways, tennis courts, golf courses, athletic fields, commercial sod operations, or other high-maintenance, fine turfgrass areas, or similar areas.
- Trees adjacent to or in a treated area can occasionally be affected by root uptake of TerraVue. Do not apply TerraVue within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and leguminous trees such as locusts, redbud, mimosa and caragana.
- Do not treat frozen soil where runoff could damage sensitive plants.
- Grazing and Haying Restrictions: There are no restrictions on grazing or grass hay harvest following application of TerraVue at labeled rates. Cutting hay too soon after spraying weeds will reduce weed control. After application wait 14 days after herbicide application to cut grass hay to allow herbicide to work. Do not transfer grazing animals from areas treated with TerraVue to areas where sensitive broadleaf crops occur without first allowing 3 days of grazing on an untreated pasture. Otherwise, urine and manure may contain enough aminopyralid and florpyrauxifen-benzyl to cause injury to sensitive broadleaf plants.
- Grazing Poisonous Plants: Herbicide application may increase palatability of certain poisonous plants. Do not allow livestock to graze treated areas until poisonous plants are dry and no longer palatable to livestock.
- Restrictions in Hay or Manure Use: -
  - Do not use aminopyralid-treated or and florpyrauxifen-benzyl-treated plant residues, including grass, wood plants, trees, hay, or straw from areas treated within the preceding 18 months, in compost, mulch wood chips, or mushroom spawn.
  - Do not use manure from animals that have eaten aminopyralid-treated or florpyrauxifen-benzyl-treated forage or hay within the previous 3 days in compost, mulch, or mushroom spawn. Livestock must have 3 days of eating non-aminopyralid-treated or florpyrauxifen-benzyl-treated materials in order to clear their system of aminopyralid and florpyrauxifen-benzyl. Do not use aminopyralid-treated or florpyrauxifen-benzyl-treated plants in areas where commercially grown mushrooms or susceptible broadleaf plants may be grown.
  - Do not spread manure from animals that have consumed aminopyralid-treated or florpyrauxifen-benzyl-treated forage or hay

- within the previous 3 days on land used for growing susceptible broadleaf crops.
- Manure from animals that have consumed aminopyralid-treated or florpyrauxifen-benzyl-treated forage or hay within the previous 3 days may only be used on areas used for pasture, grass grown for seed, wheat, and corn.
- Do not plant a broadleaf crop (including soybeans, sunflower, tobacco, vegetables, field beans, peanuts, and potatoes) in fields or areas treated with aminopyralid or florpyrauxifen-benzyl-treated or manure from animals that have grazed forage or eaten hay harvested from aminopyralid-treated or florpyrauxifen-benzyl-treated areas until an adequately sensitive field bioassay is conducted to determine that the aminopyralid and florpyrauxifen-benzyl concentration in the soil is at level that is not injurious to the crop to be planted.

Do not plant a broadleaf crop in fields or areas treated in the previous year with manure from animals that have consumed aminopyralidtreated or florpyrauxifen-benzyl-treated forage or hay until an adequately sensitive field bioassay is conducted to determine that the aminopyralid and florpyrauxifen-benzyl concentration in the soil is at level that is not injurious to the crop to be planted.

To promote herbicide decomposition, plant residues must be evenly incorporated in the surface soil or burned. Breakdown of aminopyralid and florpyrauxifen-benzyl in plant residues or manure is more rapid under warm, moist soil conditions and may be enhanced by

supplemental irrigation.

- Crop Rotation: Do not rotate to any crop from rangeland, permanent pasture, or CRP acres within one year following treatment. Cereals and corn can be planted one year after treatment. Broadleaf crops are sensitive to aminopyralid and florpyrauxifen-benzyl residues in the soil. and prediction of crop safety by field bioassay (see instructions below) is the best way to determine planting options. Broadleaf crops such as canola, flax, and alfalfa can require at least 2 to 3 years depending on the crop and environmental conditions. More sensitive crops such as soybeans, tobacco, peanuts, potatoes, and peas may require a longer plant back interval and should not be planted until a field bioassay shows that the level of aminopyralid and florpyrauxifen-benzyl present in the soil will not adversely affect that broadleaf crop.
- Consult with a Dow AgroSciences representative if you do not understand the Use Precautions and Use Restrictions. Call 1-800-258-3033 for more information.

#### Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. A variety of factors can influence pesticide drift such as weather conditions (e.g., wind direction, wind speed, temperature, relative humidity), method of application (e.g., ground, aerial), and application equipment (e.g., airblast, chemigation). The interaction of many equipment-related 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. Ultimately, the applicator must evaluate all factors at the time of application, and make appropriate adjustments when applying this product to avoid offtarget movement or delay application until the pesticide can be applied safely. Moreover, the applicator is responsible for avoiding spray drift for individual pesticide applications

#### **Aerial Applications**

- Do not release spray at a height greater than 10 feet above the vegetative canopy unless a greater application height is necessary for pilot safety. This requirement does not apply to forestry or rights-of-way applications.
- Applicators are required to use a coarse to coarser droplet size (ASABE S572.1).
- The boom length must not exceed 75% of the wingspan for airplanes or 85% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

### **Ground Boom Applications**

- Apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a coarse to coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **Spray Drift Advisories**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND **ENVIRONMENTAL CONDITIONS.** 

#### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### Controlling Droplet Size - Ground Boom

- Volume: Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure: Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle: Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size - Aircraft

Adjust Nozzles: Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy unless a greater application height is necessary for pilot safety.

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift

#### Sprayer Clean-Out Instructions

It is recommended to use separate spray equipment on highly sensitive crops such as tobacco, soybeans, potatoes, peanuts, and tomatoes.

Do not use spray equipment used to apply TerraVue for other applications to land planted to, or to be planted to, broadleaf plants unless it has been determined that all residues of this herbicide have been removed by thorough cleaning of equipment.

Equipment used to apply TerraVue should be thoroughly cleaned before reusing to apply any other chemicals as follows:

- 1. Rinse and flush application equipment thoroughly after use including nozzles, screens, filter, and end caps of sprayers. Dispose of rinse water in non-cropland area away from water supplies.
- 2. Rinse a second time, adding 1 quart of household ammonia or tank cleaning agent for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution stand for several hours, preferably overnight.
- Flush the solution out of the spray tank through the boom.
- Rinse the system twice with clean water, recirculating and draining each time.
- 5. Spray nozzles and screens should be removed and cleaned separately.
- Do not apply this product with mist blower systems that deliver very fine spray droplets. Use of mist blower equipment can reduce control achieved with the herbicide and increase spray drift potential.

#### **Application Methods**

Apply the specified rate of TerraVue as a coarse to coarser low-pressure spray. Do not apply this product with mist blower systems that deliver very fine spray droplets. Spray volume should be sufficient to uniformly cover foliage or intended application site. Increase the spray volume to ensure thorough and uniform coverage when target vegetation is tall and/or dense. To enhance foliage wetting and coverage, a non-ionic agricultural surfactant or other adjuvant may be added to the spray mixture as specified by the adjuvant label.

TerraVue may be applied by ground or aerial application equipment on any registered use site specified on this label.

Ground Broadcast Application: Higher spray volumes (greater than 10 gallons per acre) generally provide better coverage and better control, particularly in dense and/or tall foliage.

Aerial Broadcast Application: Do not apply less than 2 gallons per acre total spray volume. Five gallons per acre or greater will generally provide better coverage and better control, particularly in dense and/or tall foliage.

High-Volume Foliar Application: High volume foliar treatments may be applied at rates equivalent to a maximum of 2.85 oz per acre per year. Use sufficient spray volume to thoroughly and uniformly wet foliage and stems.

For basal bark and cut stubble and all types of cut surface applications. see woody plant control section.

Low-Volume Foliar Treatment: To control susceptible woody plants, use TerraVue alone or in tank mixes with other herbicides in water. The spray concentration of TerraVue tank mixes and total spray volume per acre should be adjusted according to the size and density of target woody plants and type of spray equipment used. With low-volume application, use sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars. For best results, an adjuvant should be added to all spray mixtures. Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 psi may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush

Spot Application: Spot treatments may be applied at an equivalent broadcast rate of up to 5.7 oz of TerraVue per acre per year; however, if area is hayed or grazed, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 5.7 oz per acre of TerraVue per year as a result of broadcast, spot, or repeat applications. Spray volume should be sufficient to thoroughly and uniformly wet weed foliage, but not to the point of runoff. Repeat treatments may be made, but the total amount of TerraVue applied must not exceed 2.85 oz per acre per year. To prevent misapplication, spot treatments should be applied with a calibrated sprayer with a known volume per acre.

### Mixing Instructions

#### Mixing with Water

To prepare the spray, add about half the required amount of water in the spray tank. Then, with agitation, add the specified amount of TerraVue and other herbicides, if tank mixing. Finally, with continued agitation, add the rest of the water and additives such as adjuvants, surfactants or drift control and deposition aids

Addition of Surfactants or Adjuvants on All Labeled Use Sites: The addition of a high quality non-ionic surfactant (of at least 80% active principal), methylated seed oil at 0.5 to 1.0 % volume per volume (2 to 4 quarts per 100 gallons of spray), or blended adjuvants (rate as directed on specific label) is allowed to enhance herbicide activity.

#### TerraVue - Tank Mixes

DO NOT TANK MIX ANY PESTICIDE PRODUCT WITH THIS PRODUCT without first referring to the following website for the specific product: www.terravuetankmix.com. This website contains a list of active ingredients that are currently prohibited from use in tank mixture with this product.

Continuous agitation is required for tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks.

TerraVue at rates of up to 2.85 oz per acre may be mixed with labeled rates of other labeled herbicides to

broaden the spectrum of weeds and brush controlled or to improve control of certain weeds.

#### **Tank Mixing Restrictions**

Only use products in tank mixture with this product that: 1) are registered for the intended use site, application method and timing; and 2) are not prohibited for tank mixing by the label of the tank mix product; and 3) do not contain one of the prohibited active ingredients listed on the www.terravuetankmix.com website.

Applicators and other handlers (mixers) must access the website within one week prior to application in order to comply with the most up-to-date information on tank mix partners.

Do not exceed specified application rates for respective products or maximum allowable application rates for any active ingredient in the tank mix.

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

Always perform a jar test to ensure the compatibility of products to be used in tank mixture.

#### **Tank Mixing Precautions**

Ensure TerraVue is fully dispersed in water BEFORE adding other liquid products as this could affect the ability of TerraVue or other dry formulations from fully dispersing. For direct injection or other spray equipment where the product formulations will be mixed in undiluted form, special care should be taken to ensure tank mix compatibility.

Tank Mix Compatibility Testing: Perform a jar test prior to mixing in a spray tank to ensure compatibility of TerraVue and other pesticides or carriers. Use a clear glass jar with lid and mix ingredients in the same order and proportions as will be used in the spray tank. The mixture is compatible if the materials mix readily when the jar is inverted several times. The mixture should remain stable after standing for 30 minutes or, if separation occurs, should readily remix if agitated. An incompatible mixture is indicated by separation into distinct layers that do not readily remix when agitated and/or the presence of flakes, precipitates, gels, or heavy oily film in the jar. Use of an appropriate compatibility aid may resolve mix incompatibility. If the mixture is incompatible do not use that tank mix partner in tank mixtures.

#### Mixing with Sprayable Liquid Fertilizer Solutions

TerraVue is usually compatible with liquid fertilizer solutions. It is anticipated that TerraVue will not require a compatibility agent for mixing with fertilizers; however, a compatibility test (jar test) should be made prior to mixing. Jar tests are particularly important when a new batch of fertilizer or pesticide is used, when water sources change, or when tank mixture ingredients or concentrations are changed. Compatibility may be determined by mixing the spray components in the desired order and proportions in a clear glass jar before large scale mixing of spray components in the spray tank. Note: The lower the temperature of the liquid fertilizer, the greater the likelihood of mixing problems. Use of a compatibility aid may be required if TerraVue is mixed with a 2,4-D-containing product and liquid fertilizer. Mixing TerraVue and 2,4-D in N-P or N-P-K liquid fertilizer solutions is more difficult than mixing with straight nitrogen fertilizer and should not be attempted without first conducting a successful compatibility jar test. Agitation in the spray tank must be vigorous to be comparable with jar test agitation.

Apply the spray mixture the same day it is prepared while maintaining continuous agitation. Rinse the spray tank thoroughly after use.

**Note:** Foliar-applied liquid fertilizers themselves can cause yellowing of the foliage of forage grasses and other vegetation.

#### **Use Rates and Timing**

TerraVue may be applied as a broadcast spray by ground or aerial equipment or as a spot application to control weeds listed on this label. When a rate range is given use the higher rate to control weeds at advanced growth stages, or under less than favorable growing conditions, or for longer residual control. Best results are obtained when spray volume is sufficient to provide uniform coverage of treated weeds. For optimum uptake and translocation of the herbicide, avoid mowing, haying, shredding, burning, or soil disturbance in treated areas for at least 14 days following application.

TerraVue provides post emergence control and preemergence control of emerging seedlings of susceptible weeds and re-growth of certain perennial weeds following application. Preventing establishment of weeds will depend upon application rate, season of application, and environmental conditions after application.

TerraVue can provide long-term control of susceptible weeds. The length of control is dependent upon the application rate, condition and growth stage of target weeds, environmental conditions at and following application, and the density and vigor of competing desirable vegetation. Long-term weed control is most effective where grass vegetation is allowed to recover from overgrazing, drought, etc., and compete with weeds.

TerraVue can be an important component of integrated vegetation management programs designed to renovate or restore desired plant communities. To maximize and extend the benefits of weed control provided by TerraVue, it is important that other vegetation management practices, including proper grazing management, biological control agents, replanting, fertilization, prescribed fire, etc., be used in appropriate sequences and combinations to further alleviate the adverse effects of weeds on desirable plant species and to promote development of desired plant communities. Agricultural and natural resources specialists with federal and state government agencies can provide guidance on best management practices and development of integrated vegetation management programs.

#### **Plants Controlled**

The following weeds and woody plants will be controlled with the rates of TerraVue indicated below (Table 1). For best results, apply when weeds and woody plants are actively growing and under conditions favorable for growth. Use a higher rate in the rate range when growing conditions are less than favorable or when weed foliage is tall and dense, or when optimal longer term residual control is desired. TerraVue also provides preemergence control of germinating seeds or seedlings of susceptible weeds following application.

Table 1: Weeds and Woody Plants Controlled

Note: Numbers in parentheses (-) refer to specific use directions for a particular weeds species.

| Common Name                    | Scientific Name             | Rate Range (oz/acre) | Life Cycle          | Plant Family    |
|--------------------------------|-----------------------------|----------------------|---------------------|-----------------|
| actinomeris, wingstem          | Verbesina alternifolia      | 2.85                 | perennial           | Asteraceae      |
| amaranth, palmer               | Amaranthus palmeri          | 2.85                 | annual              | Amaranthaceae   |
| amaranth, spiny a              | Amaranthus spinosus         | 2 to 2.85            | annual              | Amaranthaceae   |
| bedstraw                       | Galium spp.                 | 2 to 2.85            | perennial           | Rubiaceae       |
| beebalm, pony (horsemint)      | Monarda pectinata           | 2.85                 | annual              | Lamiaceae       |
| beggarticks                    | Bidens spp.                 | 2 to 2.85            | annual              | Asteracea       |
| blackbrush                     | Acacia rigidula             | 2.85                 | perennial           | Fabaceae        |
| broomweed, annual a            | Amphiachyris dracunculoides | 2 to 2.85            | annual              | Asteraceae      |
| buffalobur                     | Solanum rostratum           | 2 to 2.85            | annual              | Solanaceae      |
| bullnettle, Texas              | Cnidoscolus texanus         | 2.85                 | perennial           | Euphorbiaceae   |
| burdock, common                | Arctium minus               | 2 to 2.85            | biennial            | Asteraceae      |
| buttercup, hairy a             | Ranunculus sardous          | 2 to 2.85            | annual              | Ranunculaceae   |
| buttercup, tall a              | Ranunculus acris            | 2 to 2.85            | perennial           | Ranunculaceae   |
| buttercup spp                  | Ranunculus spp              | 2 to 2.85            | various             | Ranunculaceae   |
| camelthorn                     | Alhagi pseudalhagi          | 2 to 2.85            | perennial           | Fabaceae        |
| caraway, common a, b           | Carum carvi                 | 2 to 2.85            | biennial/ perennial | Apiaceae        |
| carrot, wild <sup>a, b</sup>   | Daucus carota               | 2 to 2.85            | biennial            | Apiaceae        |
| cat's ear, common              | Hypochaeris radicata        | 2 to 2.85            | perennial           | Asteracea       |
| cat's ear                      | Hypochaeris spp             | 2 to 2.85            | perennial           | Asteracea       |
| chamomile, scentless           | Matricaria inodora          | 2 to 2.85            | annual              | Asteraceae      |
| chicory <sup>a, b</sup>        | Cichorium intybus           | 2 to 2.85            | perennial           | Asteraceae      |
| chickweed, common <sup>a</sup> | Stellaria media             | 2.85                 | annual              | Caryophyllaceae |