

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JUL 3 0 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

John J. Jachetta Dow AgroSciences, LLC 9330 Zionsville Rd. Indianapolis, IN 46268-1054

Dear Mr. Jachetta:

Subject: Spike 80W

EPA Registration Number 62719-107 Resubmission Dated June 29, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

- 1. Change order of Precautionary Statements so that "Causes eye irritation" follows "Harmful if swallowed, inhaled, or absorbed through the skin."
- 2. Add a statement under the section Directions For Use that states "Do not apply by aerial application."

Submit three (3) copies of final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

ames A Tompkins

Sincerely

Product Manager 25

Herbicide Branch

Registration Division (7505C)

T1H / Spike 80W / Amend / 07-28-04

ACCEPTED with COMMENTS in EPA Letter Dated

Page 1

(Base label):

(Logo) Dow AgroSciences

Spike® 80W

Specialty Herbicide

JUL 30 2004

Under the Federal Insecticide, Pungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Rag. No.

62719-107

A preemergence and postemergence herbicide for total control of woody plant species, brush and weeds on noncrop areas, including rangeland, permanent grass pastures, fencerows, and clearings for wildlife habitat.



Spike® 80W will kill trees and shrubs. Carefully read the precautions before using.

Active Ingredient:

tebuthiuron: N-[5-(1,1-dimethylethyl)-

1,3,4-thiadiazol-2-yl]-N,N'-

Contains 20 pounds active ingredient per 25 pound bag.

Keep Out of Reach of Children

CAUTION PRECAUCION

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

Precautionary Statements

Hazards to Humans and Domestic Animals

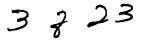
Causes Eye Irritation • Harmful if Swallowed, Inhaled, Or Absorbed Through The Skin

Avoid breathing dust and contact with eyes, skin or clothing. Eye protection, long-sleeved shirt, long pants, shoes and socks, and chemical resistant gloves made of any waterproof material must be worn when handling or applying this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment.



If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact tenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center of doctor for further 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 for emergency medical treatment information.

Environmental Hazards

Precaution: Do not use Spike[®] 80W herbicide in any area where desirable species are in the vicinity of the plants to be controlled. A small amount of Spike 80W in contact with the roots of desirable trees or other woody species may cause severe injury or death. The roots of such plants may extend far beyond their drip lines.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory: This product is known to leach through soil into ground water under certain conditions as a result of registered (rangeland and non-crop) uses. Use of this product in areas where soils have rapid to very rapid permeability, particularly where the water table is shallow, may result in ground water contamination.

Use Restrictions for Groundwater Protection

Vulnerable Sites: To minimize any movement of tebuthiuron to subsurface water, do not exceed the application rates specified below on treatment sites where soils have a sand or loamy sand texture throughout the soil profile and all of the following characteristics:

- 1. Rapid to very rapid permeability.
- Absence of well-defined organic layers or a textural B-horizon (restricting layer of fine-textured soil).
- 3. The water table of an underlying aquifer is shallow.

The maximum use rates for Spike 80W in areas described above are:

- Less than 20 inches annual precipitation: Do not apply more than 1.25 lb/acre Spike 80W.
- Greater than 20 inches annual precipitation: Do not apply more than 2.5 lb/acre Spike 80W.

Refer to the "Woody Plants Controlled" section of this label for plant species controlled at these application rates.

[†]An aquifer is defined as "an underground saturated, permeable, geologic formation capable of producing significant quantities of water to a well or spring." It is the ability of the saturated zone, or portion of that zone, to yield water which makes it an aquifer (American Chemical Society, 1983). Local agricultural agencies can provide further information on the type of soil in your area and the location of shallow ground water aquifers.

Do not apply Spike 80W in areas where the water table is predominately shallow (5 feet or less), such as marshy or sub irrigated areas, or areas immediately adjacent to streams or lakes which are periodically flooded, unless such use is allowed under a state-approved pesticide management program. **Note:** Also on such areas, woody plants rooted directly in a shallow water table are minimally affected by applications of tebuthiuron and poor woody plant control will result.

Do not apply Spike 80W where bedrock is continuously exposed or in areas of bedrock overlain by soils that are shallow or discontinuous.

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Do not apply Spike 80W in areas adjacent to sinkholes or depressions lacking external drainage, which occur within areas of karst topography.

Do not apply Spike 80W to high shrink/swell soils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 80W within areas identified by state or local authorities as protected groundwater recharge zones.

Refer to label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label. If terms are not acceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Not For Residential Use

Not For Residential	Use
EPA Reg. No. 62719-107	EPA Est.
[®] Trademark of Dow AgroSciences LLC Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.	
	Net Weight lb

(Datapack cover):

(Logo) Dow AgroSciences

Spike® 80W

Specialty Herbicide

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tebuthiuron: *N*-[5-(1,1-dimethylethyl)-1.3.4-thiadiazol-2-vil-*N.N'*-

dimethylurea	80.0%
Inert Ingredients	. 20.0%
Total	100.0%

Contains 20 pounds active ingredient per 25 pound bag.

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EPA	Est.	

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Net Weight __ lb

(Page 1 through end):

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- 1. Rapid to very rapid permeability.
- Absence of well-defined organic layers or a textural B-horizon (restricting layer of fine-textured soil).
- 3. The water table of an underlying aquifer[†] is shallow.

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Do not apply Spike 80W to high shrink/swell soils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 80W within areas identified by state or local authorities as protected groundwater recharge zones.

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 through any type of irrigation system.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: The herbicidal properties of Spike 80W require caution in handling, storage, and transportation of this product. Store in original container only. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Spike 80W is a surface applied, soil-active product intended for total vegetation control in non-cropland and for woody plant control in non-cropland, rangeland and permanent pastures. Applied as a broadcast treatment, Spike 80W is generally non-selective to (will control) annual grasses, annual and perennial broadleafs and broadleaf woody plants. Perennial warm-season grasses are generally tolerant to Spike 80W, but may exhibit injury during the season following application. Cool season perennial grasses are not tolerant to broadcast applications of this product except at rates less than 0.5 lb active ingredient.

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Applied as a banded treatment, Spike 80W may be used to control woody plants in non-cropland, rangeland and pastures sites. With banded treatments, effects on herbaceous vegetation are confined mainly to the treated band, but may last more than one growing season. Dormant season application and keeping the treated band as narrow as possible is recommended to minimize herbicidal effects on perennial grasses and to lessen effects on other herbaceous plants.

Treatments become effective after sufficient rainfall has occurred to move the active ingredient in Spike 80W into the root zone. Herbicidal symptoms appear most rapidly when applied just before seasonal rainfall. Susceptible herbaceous plants exhibit leaf chlorosis followed by browning before the plant dies. Woody plants exhibit leaf chlorosis and browning followed by defoliation. Woody plants may undergo several defoliation cycles, usually following significant rainfall before death occurs. Time required to achieve control of woody vegetation depends on susceptibility of target species, rainfall and soil conditions and may vary from a single growing season to several years. Lack of rainfall will delay herbicidal activity and lengthen the time required for control.

For best woody plant control results with Spike 80W, do not disturb intact plants by practices such as wood cutting, chaining, or burning for two years after application. Resprouting or survival of woody plants is more likely to occur if plants are disturbed before complete control occurs.

Use Precautions and Restrictions

Read the entire label *before* using Spike 80W to determine if this product is suitable for the desired purpose.

This product is not registered in the state of Florida.

Spike 80W is an extremely active herbicide which will kill trees, shrubs, and other forms of desirable vegetation having roots extending into the treated area. Feeder roots of many species of desirable vegetation extend many feet beyond the drip line of the branches, and a very small amount of Spike 80W in contact with one feeder root of a tree, shrub, or other desirable vegetation may cause serious injury or death to the entire plant.

Recommended Treatment Setback: Do not apply Spike 80W in the vicinity of desirable plants. Exposure of even a small part of a plant root system to Spike 80W may cause severe plant injury or death. Plant roots usually occupy an area much larger than the aerial portion of the plant. Treatment setback distance should be 2 times the height or width of adjacent non-target vegetation, whichever is greater. For example, if adjacent non-target vegetation is 25 feet tall, the treatment setback should be 50 feet.

An Arborculturist (tree expert) should be consulted to help you to determine if the area of proposed application is free of all roots of desirable vegetation. The effect of Spike 80W on desirable vegetation may be irreversible and its presence in the soil may prevent growth of other desirable vegetation for some years after application.

Do not use Spike 80W on areas such as walks, driveways, streets, lawns, patios, tennis courts, swimming pools, cemeteries, or other landscaped areas, or under asphalt or concrete pavement where future landscaping is planned. Do not apply on field crops. Do not apply on any area into which the roots of field crops or other desirable vegetation may extend. Roots of trees, shrubs, and other desirable vegetation may extend far beyond the drip line of the plant's branches.

Avoid non-target drift or product movement. Do not apply when winds are gusty or under any other condition which will allow drift or product movement. Do not apply to areas where soil movement by water erosion and/or natural or mechanical means is likely. Do not apply where wind erosion may cause movement of soil containing Spike 80W from the treated area unless the

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soil surface has been stabilized with a gravel mulch or some other means. Drift or any form of product movement from treated areas may cause damage to any vegetation to which treatment is not intended.

Do not apply Spike 80W to interior ditchbanks (areas which slope toward the drainage). Do not apply to ditches used to transport irrigation or potable water.

Thoroughly clean all traces of Spike 80W from application equipment after use. Do not empty residues cleaned from application equipment on areas where they may come in contact with the roots of desirable vegetation or the water source for such vegetation.

Spike 80W may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Do not apply broadcast applications of Spike 80W where forage or maintenance of a grass cover is desired. Injury to most herbaceous perennials is reduced if Spike 80W is applied when this vegetation is dormant.

Grazing Haying Restrictions

If treated area is to be used for haying or grazing, do not apply more than 5 pounds per acre of Spike 80W, and do not apply the product more than once a year. Grazing is allowed in areas receiving band or individual plant treatments with 5 pounds per acre or less of Spike 80W.

Haying Restriction: In areas receiving band or individual plant treatments of 5 pounds per acre or less of Spike 80W, grass may be cut for hay one year after application.

Frequency of Application and Maximum Use Rates

Vegetation Control by Ground Broadcast or Banded Application:

- The maximum use rate and frequency of application is 1.25 to 2.5 lb of Spike 80W (1 to 2 lb a.i.) per acre once every three years for vulnerable sites where soils are sandy and depth to water table is shallow. (Refer to Environmental Hazards section under "Use Restrictions for Ground Water Protection".)
- For all other areas, the maximum use rate and frequency of application is up to 5 lb of Spike 80W (4 lb a.i.) per acre once every three years; and no more than two treatments totaling 7.5 lb of Spike 80W (6 lb a.i.) per acre in any 6 year period.

Total Vegetation Control and Maintenance of Bare Ground by Ground Broadcast Only: The maximum use rate and frequency of application is up to 5 lb of Spike 80W (4 lb a.i.) per acre applied only once per year; however, no more than 7.5 lb of Spike 80W (6 lb a.i.) per acre may be applied in any 3 year period.

Spot Treatments (Hand-held Equipment): May be applied at rates up to 7.5 lb of Spike 80W (6 lb a.i.) per acre when needed.

Mixing Directions

Thorough mixing and continuous agitation are important to ensure uniform application. Fill the spray tank half-full of water. Start agitation and continue agitation during entire mixing and spraying operation. Add the required amount of Spike 80W and allow it to mix thoroughly while completing the spray tank filling. If additional product is a liquid, add slowly while filling remainder of tank with water.

Material must be kept in suspension at all times by continuous agitation. If bypass (hydraulic) agitation is used, the return flow should terminate at the bottom of the mixing tank to minimize foaming. Check the sprayer frequently before and during use to insure proper calibration and uniform application.

A master shut-off switch for the entire spraying system and nozzle check valves are recommended on commercial spray equipment.

If hand held or back pack type sprayers are used, determine the amount of water and chemical necessary to cover uniformly the area to be treated. Shake vigorously after filling and periodically during application to maintain product in suspension.

Application Methods

Broadcast Application

Apply Spike 80W in a spray volume of 10 or more-gallons of water per acre by ground. Apply before or during the period of active growth of plants to be controlled. Initial control is enhanced by rainfall.

In areas of low annual rainfall (less than 15 inches per year) Spike 80W should be applied prior to the time of year when the predominant portion of that rainfall occurs. A minimum of 1 to 1 1/2 inches of rainfall is required to activate Spike 80W and place it in the zone of weed seed germination.

Other products registered for use on the site to be treated may be applied in tank mix combination with Spike 80W to provide broader spectrum weed control or provide initial top kill of existing vegetation. Consult the manufacturer's label for additional weeds controlled, directions for use, cautions and limitations before use. See detailed information for tank mixing in the General Information section of this label.

Banded Application (Ground Application Only)

Banded applications of Spike 80W allow for woody plant control and preservation of grasses and other desirable herbaceous vegetation in rangeland and permanent pastures and in non-cropland areas (such as utility, railroad, and pipeline rights-of-way and fencerows). In banded applications, the rate per acre is equivalent to the broadcast rate, but the herbicide is concentrated into individual herbicide bands spaced 4 to 10 feet apart. Banded applications may be made using a spray volume of 5 or more gallons per acre. Actual herbicide bands should be kept as narrow as possible during application to minimize potential injury or loss of herbaceous vegetation. In areas such as brush-infested fencerows, a single band may be applied. Control is dependent upon root systems intercepting the herbicide in soil beneath treated bands.

Band spacing should be selected based on the size of the woody plants in the area to be treated and the amount of injury or loss of herbaceous vegetation that can be tolerated. Where control of young or seedling woody plants is desired, bands should be spaced closer together. This will achieve maximum exposure to their limited root systems. Where larger more mature woody plants are to be controlled, bands should be spaced at the wider end of the recommended spacing range.

In addition to allowing adequate exposure of the more extensive root systems of these larger woody species for control, use of the wider spacings will further reduce injury or loss of herbaceous vegetation within the treated band.

Within the treated band nearly all vegetation, woody and herbaceous, will be killed. Some herbaceous vegetation close to the treated band with roots extending into it may be severely injured or killed. However, since root systems of herbaceous plants are less extensive most plants outside the treated band are unaffected.

When banded applications are made in an area where straight stream nozzles are positioned more than 5 feet above the soil surface or where woody plant foliage is dense, breakup of individual nozzle streams may occur. If conditions do not permit delivery of intact nozzle streams to the soil surface, efficacy may be reduced and injury of herbaceous vegetation will increase. For this reason, application in the dormant

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season when there is minimum foliage present is recommended. To avoid breakup of individual nozzle streams by interfering vegetation, applicators may also employ mechanical means to position spray nozzles close to the soil surface such as protected drop nozzles or nozzles mounted at the end of weighted bars which maintain constant contact the soil surface.

Fencerow Applications: For fencerow applications, a single spray band will cover a fencerow 4 to 10 feet wide. Use a rate appropriate to control the most difficult species to control in the fencerow. Use a straight stream nozzle and direct the nozzle stream at the soil surface in the center of the fencerow. For fencerows wider than 10 feet, separate bands may be applied on either side of the fencerow.

Rate example: Assuming the desired rate of Spike 80W is 5 pounds per acre and the fencerow is 10 feet wide, a one 5-pound bag of Spike 80W will treat 4356 † linear feet of fencerow. Determine the delivery rate for the nozzle at the desired spray pressure and the walking speed of the applicator. If the length of the area to be treated is 4356 ft long and the walking speed is 3 mph (264 ft/minute) it would take 16.5 minutes to walk the length of the treatment area. If the delivery rate of the nozzle is 0.6 gallons per minute, the treatment would require approximately 10 gallons (0.6 gallon per minute X 16.5 minute = 10 gallons) of spray solution.

† 1 acre = 43560 sq ft (43560 sq ft + 10 ft = 4356 ft)

Individual Plant Treatment

ATTENTION: Do not use this treatment method in any area where there are desirable species in close proximity plants to be eliminated. A small amount of Spike 80W in contact with the roots of desirable trees or other woody species may cause severe injury or death. See Use Precautions and Restrictions section for precautions for avoiding damage to non-target plants.

Spike 80W may be applied in high or low volumes of water for selective control of individual woody plants. Recommended rates will vary depending upon site conditions, with the higher rates needed for difficult to control species, large plants, heavier soils, fall applications and cut brush. Refer to Factors in Herbicidal Response of Woody Plants section for further information.

For high volume applications, mix 1 one pound of Spike 80W in enough water to make 10 gallons of solution. Apply 10 ounces of material to the soil per every 2 to 4 inches of stem diameter.

For low volume applications, mix 1 pound of Spike 80W in enough water to make 1 gallon of solution. Apply 1 ounce of material to the soil per very 2 to 4 inches of stem diameter.

When treating large stems, apply the multiple treatments (spots or bands) in even spacing around the stem.

Two types of equipment are suggested for applying Spike 80W using banded or individual plant treatment methods, the Solo Model 425 back pack sprayer (or equivalent) for both banding and individual plant treatment and the Spot Gun for individual plant treatment.

The Solo sprayer is prepared for spraying by adding the pre-slurried contents of a 4 pound bag of Spike 80W and water to the tank. Fill to capacity with additional water and shake vigorously. Equip the Solo sprayer with a 0003-SS straight stream nozzle and the Solo pressure regulator with the green (10 psi) pressure limiting spring. To band Spike 80W at 5 pounds per acre, walk at 3 mph (264 feet per minute) with the Solo on continuously and space the bands 5 feet apart. Adjust the rate and walking speed according to the brush species and conditions encountered. For individual plant treatment with the Solo, apply a 1.5 second shot for every 1 to 2 inches of stem diameter at the base of unwanted woody plants.

The Spot Gun is prepared for individual plant treatment by mixing 2 pounds of Spike 80W in sufficient water to obtain 1 gallon of spray solution. Set the Spot Gun to deliver 8 milliliters of this solution for every 1 to 2 inches of stem diameter at the base of the unwanted woody plants. For application on steep

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slopes or other sensitive areas, the Spot Gun can be equipped with a soil probe to inject the Spike 80W solution beneath the soil surface. Placement at a soil depth of 2 to 4 inches will eliminate any surface movement and reduce injury to herbaceous vegetation.

At the prescribed rates, a 4 pound bag of Spike 80W will treat approximately 950 stems 1 to 2 inches in diameter. Because of its non-volatile nature and low potential for drift, this Spike application technique can be used for treating unwanted woody plants on non-cropland areas adjacent to sensitive crops (See Precautions and Restrictions section). Use of a colored marker or dye in spray mixtures will aid in inspection of the completed work.

Factors in Herbicidal Response of Woody Plants

Spike 80W has little or no foliar activity, but when applied to the soil is readily absorbed by the plant roots along with soil moisture. Effects will not become apparent until there is sufficient rainfall to move the herbicide into the root zone. The time required to achieve control is dependent on soil type, amount and timing of rainfall, and rooting depth of target species. Some species may go through several defoliations and refoliations over a period of approximately two to three years before dying.

Soil Texture, Soil Depth, and Organic Matter

Poor control or erratic results are likely to occur if banded treatments are applied to soils containing more than 5% organic matter or more than 30% clay. Do not apply to "blackland" or other heavy clay soils that crack extensively upon drying. Other deep, medium, and fine-textured soils supporting deep-rooted woody plant species require higher rates within recommended rate ranges for consistent control. Woody plants growing in shallow, coarse, or rocky soils with low organic matter are normally more susceptible due to increased soil availability of the herbicide and shallow rooting depth. Application rates at the low end of the rate range may be used under these conditions.

Woody Plant Size and Density

The height and density of woody vegetation is a reliable indicator of soil conditions. Woody vegetation is generally taller and denser where soils are deep and/or of medium to fine texture and where soil moisture conditions are more favorable. Higher rates in the recommended rate range are required on such sites. Woody vegetation will be smaller and less dense on sites with coarse, shallow, or rocky soils with less favorable soil moisture conditions. Lower rates in the recommended rate range may be used on such sites. Where a high level of woody plant control is required and application rates cannot be adjusted for changes in soils, plant size, or density, apply Spike 80W at a rate sufficient to control the tallest and most dense woody vegetation in the treatment area.

Application Timing

Spike 80W may be applied anytime except when the soil is frozen or is saturated with moisture. For optimum results, applications should be made prior to the resumption of active seasonal growth in the spring or before expected seasonal rainfall. In areas receiving greater than 25 inches of annual rainfall, late summer and fall applications may require a higher application rate in the indicated rate range to achieve consistent control.

Banded application of Spike 80W is recommended for control of brush regrowth after dozing or shredding, provided the regrowth has reached an average height of five feet or more prior to application. Spike 80W works best when there is an abundance of active leaf area to stimulate soil moisture and herbicide uptake during the season following application. Taller regrowth will tend to respond with faster and more consistent brush control.

Spike 80W may cause temporary herbicidal symptoms to appear on perennial grasses. Dormant season application is recommended to minimize herbicidal effects on desirable forage grasses.

Effect of Shallow Groundwater on Woody Plant Control

Do not apply Spike 80W to areas where the water table is predominately shallow (5 feet or less), such as marshy or sub irrigated areas, or areas immediately adjacent to streams or lakes which are periodically

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flooded. On such sites, where roots extend directly to a shallow water table, woody plants are minimally affected by applications of tebuthiuron and poor control will result.

Note: Refer to Environmental Hazards section under Use Restrictions for Ground Water Protection for other rate limitations on "vulnerable" sites.

Woody Plant Control in Rangeland, Permanent Pastures, Fencerows, and Clearings for Wildlife Habitat

Spike 80W is recommended as a ground-applied band application for control of woody plants in rangeland and permanent pastures, for establishment of clearings for enhancement of wildlife habitat, and for control of trees and brush in fencerows.

Grazing Management

In rangelands and permanent grass pastures, measures to minimize injury to, and maximize growth response of, desirable grasses and other forage species are recommended. These include:

- application during seasons when forage species are not actively growing,
- application in narrow bands using straight stream nozzles to minimize potential injury to desirable herbaceous cover, and,
- · utilizing the maximum width between bands that will still allow for optimal woody plant control (refer also to the General Information section above)

For optimum perennial forage grass response, desirable species should be present in the area to be treated at a minimum of 10% of normal plant density (density = plants per unit area) compared to similar rangeland or pasture sites not dominated by woody plants. To encourage forage grass response, grazing should be deferred during the entire active growing season following application. Poor vegetative vigor or inadequate rainfall may necessitate additional grazing deferment during periods of active forage growth. Light to moderate grazing after forage grasses are mature and seed has set will not harm grasses and can aid in seed dispersal. Forage grass production usually increases as woody plant competition for water and nutrients is reduced. However, increased forage production is also dependent on adequate rainfall and a sound grazing management program.

Woody Plants in Rangeland, Permanent Pastures and Fencerows Controlled by Banded **Applications**

Apply Spike 80W at 0.95 to 1.25 lb per acre on the following woody plant species:

Note: On rangeland and pastureland, apply 0.95 to 1.25 lb/acre of Spike 80W where a higher degree of control is required (see Factors in Herbicidal Response of Woody Plants in General Information section of this label). Spike 80W may be applied at rates as low as 0.63 lb per acre on sites with shallow, rocky and coarse textured soils having low organic matter content, or where partial control is desired.

Common Name

Scientific Name

ceniza creosotebush mimosa, catclaw (wait-a-minute-bush) Leucophyllum frutescens Larrea tridentata Mimosa pigra

Paloverde sagebrush, big sagebrush, sand Cercidium spp. Artemisia tridentata Artemisia filifolia

snakeweed, broom

Gutierrezia sarothrae

(density less than 1/sq ft)

Flourensia cemua Acacia constricta

whitethorn

Apply Spike 80W at 0.63 to 2.5 lb per acre on the following woody plant species:

Common Name

Scientific Name

oak, sand shinnery†

Quercus havardii

†Note: A wide rate range is provided to accommodate the broad range of soil and climatic variation which occurs in areas occupied by sand shinnery. Use the lowest application rate only on shallow sands in southern part of species range or where partial control is desired. Use a higher dose in indicated rate range for deeper sands and dunes, and on shinnery varieties with tall and dense growth habit which become more prevalent in the mid-to-northern part of the species range (see Factors in Herbicidal Response of Woody Plants in General Information section of this label).

Apply Spike 80W at 1.25 to 2.5 lb per acre on the following woody plant species:

Common Name

Scientific Name

oak, bigelow 1

Quercus durandi

(partial control)

oak, mohr †

Quercus mohriana

(Partial control

oak, running live †

Quercus virginiana

(Partial control)

whitebrush

Aloysia lycoides

wolfberry, Berlandier

Lycium berlanderi

Apply Spike 80W at 2.5 to 5 lb per acre on the following woody plant species:

Common Name	Scientific Name
acacia, blackbrush	Acacia rigidula
acacia, catclaw	Acacia greggii
acacia, twisted	Acacia tortuosa
apple-of-sodom	Solanum sodomeum
birch, gray	Betula populifolia
blueberry	Vaccinium spp.
bluewood (Brazil)	Condalia obovata
buckbrush	Symphoricarpos orbiculatus
cherry, bitter	Prunus emarginata
dogwood, roughleaf	Cornus drummondii
elm, American	Ulmus americana
elm, winged	Ulmus alata
guajillo	Acacia berlanderi
guava	Psidium guajava
hackberry, spiny (granjeno)	Celtis palida
hackberry, western	Celtis occidentalis
hawthorn	Crataegus spp.
huckleberry	Gaylussacia spp.
koa haole	Leucaena leucophylla
locust, black	Robinia pseudoacacia
manzanita	Arctostaphylos spp.

[†]Note: Use a higher dosage in indicated rate range on tall and dense stands.

mulberry, red	Morus rubra
oak, black	Quercus velutina
oak, blackjack	Quercus marilandica
oak, blue	Quercus douglasii
oak, bur	Quercus macrocarpa
oak, post	Quercus stellata
oak, shrub live	Quercus turbinella
oak, southern red	Quercus falcata
oak, white	Quercus alba
rose, multiflora	Rosa multiflora
sage, black	Salvia melifera
sumac, dwarf	Rhus copallina
sumac, littleleaf	Rhus microphylla
sumac, skunkbush	Rhus trilobata
sumac, smooth	Rhus glabra
sumac, staghorn	Rhus typhina
thornappie, desert	Datura discolor
yaupon	llex vomitoria
yaupon, desert	Schaefferia cuneifolia

Apply Spike 80W at 5 lb per acre on the following woody plant species:

Common Name	Scientific Name
alder, red	Alnus rubra
alder, speckled	Alnus rugosa
aspen, bigtooth	Populus grandidentata
beech, American	Fagus grandifolia
blackberry	Rubus spp.
boxelder	Acer negundo
chamise	Adenostoma fasciculatum
cherry, black	Prunus serotina
chokecherry, common	Prunus virginiana
colubrina, Texas	Colubrina texensis
cottonwood, eastern	Populus deltoides
creeper, Virginia	Parthenocissus quinquefolia
dogwood, flowering	Cornus florida
douglasfir	Pseudotsuga menziesii
fir, balsam	Abies balsamea
guayacan	Porlieria angustifolia
hardhack	Spiraea tomentosa
hickory, bitternut	Caraya cordiformis
hickory, black	Caraya texana
hickory, pignut	Caraya glabra
hickory, shagbark	Caraya ovata
huisache	Acacia farnesiana
kidneywood, Texas	Eysenhardtia texana_
kudzu	Pueraria lobata
leatherstem	Jatropha dioica
lotebush (condalia)	Ziziphus obtusifolia
maple, bigleaf	Acer macrophyllum
maple, sugar	Acer saccharum

melaleuca	Melaleuca quinquenervia
mountain mahogany, birchleaf	Cercocarpus betuloides
oak, California scrub	Quercus dumosa
oak, live	Quercus virginiana
oak, pin	Quercus palustris
oak, red	Quercus rubra
oak, white	Quercus alba
pine, Australian	Casuarina spp.
pine	Pinus spp.
poplar, balsam	Populus balsamifera
raspberry, black	Rubus occidentalis
rose, Macartney	Rosa bracteata
spruce, white	Picea glauca
sweetgum	Liquidambar styraciflua
tamarack	Larix laricina
trumpetcreeper	Campsis radicans
willow	Salix spp.

Establishment of Herbicidal Firebreaks

Spike 80W may be used for establishment of firebreaks in annual grasslands adjacent to frequently traveled areas or areas with a history of repeated wildfires. Application of Spike 80W provides residual preemergence control of annual grasses and broadleaf weeds and prevents annual buildup of combustible fuel. Treated strips 40 to 50 feet wide may be established parallel to highways or frequently traveled areas or in a broad-scale grid pattern. Strategic placement of firebreaks can prevent fires from spreading from frequently traveled areas or lightning fires can be confined to the area within a single grid block. Herbicidal firebreaks can also serve as a means of safe passage in case of entrapment during fire-fighting efforts.

This practice is intended for use in rangelands dominated by annual grasses such as *Bromus* and other annual grass species and certain broadleaf weeds prevalent in the Great Basin and Pacific Northwest. When surface applied from mid summer to early fall, Spike 80W provides residual preemergence control of susceptible annual grasses and broadleaf weeds from early fall through the spring growth period. Depending on application rate, a single application may provide effective annual grass and broadleaf control for 2 years or more. Desirable perennial grasses within treated strips may be temporarily injured, but if not overgrazed, will increase in vigor and density with time.

Annual Weeds Controlled: Includes *Bromus* spp., downy bromegrass or cheatgrass (*Bromus tectorum*), ripgut brome (*Bromus diandrus*), annual mustards, bur buttercup (*Ranunculus testiculatus*) and other annual species

Application Timing: Spike 80W may be applied from mid summer through early fall (July 15 through October 15). Application should occur prior to or immediately after the onset of germination of target annual weeds. Spike 80W may be applied 2 to 3 months before germination of target weeds without loss of herbicidal activity. The treatment becomes herbicidally active when there is sufficient rainfall to move the herbicide into the surface soil where germination occurs. Control will be reduced if Spike 80W is applied after the root systems of target weeds are established and can obtain soil moisture from below the zone of herbicidally active surface soil.

Broadcast Application Rates: Apply Spike 80W at a rate of 0.38 to 0.75 lb/acre (0.3 to 0.6 lb ai/acre) in a minimum spray volume of 5 gallons per acre for ground equipment. Use low pressure large droplet herbicide nozzles. Use the lower end or the rate range in areas with coarse to medium textured soils with

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low organic matter and the higher end of the rate range in areas with medium to fine textured soils, areas with higher organic matter, or where a longer period of control is desired.

Woody plant control: With time, application rates greater than 0.4 lb/acre of Spike 80W may provide sagebrush control within treated strips.

Application Techniques and Equipment: Herbicidal firebreaks may be applied with ground equipment. Ground equipment using cluster nozzles may be preferable to conventional ground spray booms in areas of rough terrain. Adjust spray boom to deliver a uniform swath approximately 40-50 feet wide. Treat strips of sufficient width to contain a wild fire in annual grass vegetation normally observed in the area.

Repeat applications may be made at a reduced rate within previously treated strips or application may occur adjacent to treated strips to widen the zone of reduced fuel in case of fire. By treating strips adjacent to previously treated strips, desirable changes in herbaceous perennial vegetation within previously treated strips may be preserved.

Non-Cropland Total Vegetation Control

Spike 80W may be used for preemergence and postemergence total vegetation control in such non-cropland areas as: airport runways, utility substations and rights-of-way, road shoulders where no vegetation is desired, under asphalt and concrete pavements where no future landscaping is planned, at the base of highway guardrails, sign posts and markers, at the base of transmission towers and poles, around industrial buildings, lumberyards, railroad yards, firebreaks, and fencerows.

Note: Refer to General Information section for limitations on maximum use rates, frequency of application and total application rates allowed during a given period of time. Refer to Environmental Hazards section under Use Restrictions for Ground Water Protection for other rate limitations on "vulnerable" sites.

For total vegetation control in areas **not treated the previous season** with Spike 80W or other residual herbicides, apply Spike 80W prior to or just after emergence of plants as follows:

At 5 pounds per acre, Spike 80W will control the following:

alfalfa

aster, heath

aster, white heath barley, little

bedstraw bluegrass, annual bluegrass, Kentucky

bluegrass, Kentucky

bouncingbet bromegrass, downy bromegrass, ripgut bromegrass, smooth broomsedge

buffelgrass burclover buttercup, smallflower

camphorweed carrot, wild catsear, spotted cheat hemlock, poison

henbit

honeysuckie, Japanese

horseweed knapweed kochia

lambsquarters

lupine medic, black morningglory mullein, common nightshade, silverleaf

oat, wild panicum, Texas pepperweed, Virginia

pigweed

plantain, buckhorn puncturevine ragweed, giant

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chickweed raspberry, red clover, red ryegrass, Italian cocklebur sedge, annual creeper, Virginia shepherdspurse crowfootgrass sida, prickly sowthistle, annual dock, curly dogfennel spikeweed fescue spurge

fescue, rattail spurge, spotted starthistle, yellow strawberry

filaree, redstem
fleabane, annual
foxtail
gaillardia, rosering
geranium, Carolina
goldenrod
grape
sunflower, common
telegraphplant
Timothy
trumpetcreeper
velvetgrass
vetch
witchgrass

gumweed

For the maintenance of total vegetation control in non-cropland areas east of the Rocky Mountains which were treated the previous season with Spike 80W or other residual herbicides, apply Spike 80W prior to or just after emergence of plants as follows (some of the species listed may show erratic control depending on the time between application and weed germination):

At 3 pounds per acre, Spike 80W will control the following:

goldenrod spurge

At 2 pounds per acre, Spike 80W will control the following:

bluegrass, annual parsnip, wild bluegrass, Kentucky pepperweed carrot, wild pigweed

chickweed, common ragweed, common

croton smartweed, Pennsylvania

fleabane, annual sweetclover horseweed thistle, Canada mullein woodsorrel, yellow

panicum, fall

In areas of rainfall greater than 25 inches per year, the 3 pounds per acre maintenance rate should be used for all weed species listed above.

For the maintenance of total vegetation control in non-cropland areas west of the Rocky Mountains which were treated the previous season with Spike 80W or other residual herbicides, apply Spike 80W prior to or just after emergence of plants as follows (some of the species listed may show erratic control depending on the time between application and weed germination):

At 1.5 pounds per acre, Spike 80W will control the following:

bassia, fivehook pigweed cheat plantain

cudweed ryegrass, annual

foxtail saltbush

lettuce, prickly shepherdspurse

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oat, wild

witchgrass

oxtongue, bristly

At 2 pounds per acre, Spike 80W will control the following:

buttercup

mustard

canarygrass, reed knapweed, Russian

ragweed, western starthistle, vellow

knotweed

telegraphplant

mallow

At 3 pounds per acre, Spike 80W will control the following:

barley

sida, alkali

gumweed

smartweed, swamp

puncturevine

In areas of rainfall greater than 25 inches per year, the 3 pounds per acre maintenance rate should be used for all weed species listed above.

Non-Cropland Control of Woody Plants and Vines

For the control of woody plants and vines, the following rates of Spike 80W are recommended. These rates can vary depending upon soil type, rainfall, time of application, and size/density of the woody plants.

Spike 80W applied at the rate of 1.25 pounds per acre will control the following species:

Common Name

Scientific Name

burroweed

Haplopappus tenuisectus

creosotebush

Larrea tridentata

wait-a-minute-bush Mimosa biuncifera

in addition to those species controlled at 1.25 ib per acre, the following species will be controlled at the rate of 2.5 pounds per acre:

Common Name

Scientific Name

blueberry

Vaccinium spp.

buckbrush ceniza (Texas silverleaf) Symphoricarpos orbicalatus Leucophyllum frutenscens

cherry, bitter elm, American hackberry, western huckleberry locust, black

Ulmus americana Celtis occidentalis Gaylussacia spp. Robinia pseudoacacia

Prunus emarginata

mulberry, red pine pine, western white rose, multiflora sage, purple Morus rubra
Pinus spp.
Pinus monticola
Rosa multiflora
Salvia leucophylla
Artemisia tridentata
Rhus glabra
Datura discolor

Ailanthus altissima

sage, purple sagebrush, big sumac, smooth thornapple, desert tree-of-heaven

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whitebrush

Aloysia lycioides Lycium berlandieri

Scientific Name

Alnus rugosa Betula populifolia

wolfberry, berlandier

Common Name

In addition to those species controlled at 2.5 lb per acre, the following species will be controlled at the rate of 3.75 pounds per acre:

alder, speckled birch, gray cottonwood, eastern elm, winged fir, balsam granjeno hardhack huisache condalia, lotebush maple, sugar

Populus deltoides Ulmus alata Abies balsamea Celtis pallid Spiraea tomentosa Acacia farnesiana Condalia obtusifolia Acer saccharum Quercus marilandica Quercus doualasii Quercus stellat Populus balsamifera Picea glauca

poplar, balsam spruce, white tamarack willow vaupon

oak, blackjack

oak, blue

oak, post

(

Larix laricina Salix spp. llex vomitoria

yaupon, desert

Schaefferia cuneifolia

In addition to those species controlled at 3.75 lb per acre, the following species will be controlled at the rate of 5 pounds per acre:

Common Name acacia, blackbrush

acacia, catclaw Acacia greggii acacia, twisted alder, red Alnus rubra

aspen, bigtooth beech, American blackberry, allegheny

boxelder

chamise

chokecherry, common colubrina, Texas condalia, bluewood creeper, Virginia

dogwood, roughleaf douglasfir guajillo guayacan hawthorn hickory, black hickory, pignut hickory, shagbark

kidneywood, Texas kudzu leatherstem maples

Scientific Name

Acacia rigidula Acacia tortuosa Populus grandidentata

Fagus grandifolia Rubus allegheniensis Acer negundo

Adenostoma fasciculatum

Prunus virginiana Colubrina texensis Condalia obovata

Parthenocissus quinquefolia

Comus drummondii Pseudotsuga menziesii Acacia berlandieri Porlieria angustifolia Crataegus spp. Carya texana Carya glabra Carva ovata Eysenhardtia texana

Pueraria lobata Jatropha dioica Acer spp.

mountain-mahogany

(birchleaf)

oak, California scrub

oak, live oak, pin oak, red oak, white pine, Australian pines

salvia, shrubby blue sumac, staghorn

sweetaum trumpetcreeper Cetcocarpus betuloides

Quercus dumosa Quercus virginiana Quercus palustris Quercus rubra Quercus alba Casuarina spp. Pinus spp.

Salvia ballotaeflora Rhus typhina

Liquidambar stryaciflua Campsis radicans

Individual (Spot) Application

Spike 80W may be applied, using hand-held equipment at up to 7.5 pounds per acre, to the following species by individual (spot) application only:

Common Name

ash, green ash, white blackberry, evergreen ceanothus, wedgeleaf chaparral, whitethorn

cherry, black dogwood, flowering elm, Chinese elm, slippery greenbrier, common groundsel tree hawthorn, cockspur lantana

manzanita, greenleaf maple, bigleaf maple, Norway maple, silver maple, vine melaleuca

oak, white peppertree, Brazilian

pine, Australian pine, jack pine, red pine, shortleaf pine, Virginia privet

raspberry, black redcedar, eastern Russianolive

sumac, laurel sycamore, American

tallow tree tuliptree

salal

Scientific Name

Fraxinus pennsylvanica Fraxinus americana Rubus laciniatus Ceanothus cuneatus Ceanothus leucodermis

Prunus serotina Cornus florida Ulmus parvifolia Ulmus rubra Smilax rotundifolia Baccharis spp. Crataeaus crus-aalli Lantana camara Arctostaphylos patula Acer macrophyllum Acer platanoides Acer saccharium Acercircinatum

Maleuca guinguenervia

Quercus alba

Schinus terebinthifolius

Casuarina spp. Pinus banksiana Pinus resinosa Pinus echinata Pinus virginiana Ligustrum spp. Rubus occidentalis Juniperus virginiana Elaeagnus angustifolia Gaultheria shallon Rhus laurina

Platanus occidentalis Sapium sebiferum Liriodendron, tulipifera

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