PM-25

Reg # 62719 - 121

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T1H / Spike 20P / Amendment / 01-06-96

(Base label):

(logo) DowElanco

Spike* 20P

A surface applied herbicide for woody plant control in such areas as:

- Along highways
- Fence rows
- Firebreaks

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- Industrial sites
- Pastureland `
- Pipelines
- Railroad rights-of-way
 Rangeland
- Clearings for wildlife habitat
- Other non-cropland areas for control of woody plant species
- Utility rights-of-way

Carefully read the entire label, including all use precautions, before applying to avoid inappropriate use of this product.

(Insert tree graphic) Spike* 20P will kill trees and shrubs. Carefully read the precautions before using.

PIC-1 (Insert tree graphic)	
Active Ingredient:	
tebuthiuron: N-[5-(1,1-dimethylethyl)-	
1,3,4-thiadiazol-2-yl]-N,N-	
dimethylurea	
Inera Ingredients	
Total	

Contains 0.2 pound active ingredient per pound of product.

Precautionary Statements

Hazards to Humans and Domestic Animals Keep Out of Reach of Children CAUTION

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Causes Eye Initiation - Harmful If Swallowed, Inhaled, Or Absorbed Through The Skin

Harmful if swallowed, inhaled, or absobed through skin. Causes moderate eve initiation,

Avoid breathing dust and contact with eyes, skin, or clothing. Eye protection, long-riceved shirt, long pavis, shoes and cocks, and waterproof gloves must be worn when handling or applying this product. Wash thoroughly with scop and water after handling. Remove contaminated clothing and wash before reuse.

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No.

Avoid contact with skin, eyes and/or clothing. Avoid breathing dust. Wash thoroughly with soap and water handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

If in eyes: "Jush eyes with plenty of water. Call a physician if irritation develops. If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of threat with finger, or if available, by administering one to two teaspoons of syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person. If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention. If on skin: Wash with plenty of seap and water. Get medical attention if irritation develops.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Environmental Hazards

Do not apply Spike* 20P herbicide near desirable trees or other woody species. Exposure of even a small part of a plant root system to Spike 20P may cause severe plant injury or death. 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 washwaters or rinsate.

Spiils: To prevent unintended damage to non-target vegetation or contamination of ground water, cover spills with waterproof covering if in outdoor area; then carefully collect and dispose of spilled pellets, whether in storage areas, vehicles, or on the soil surface. (See General Information section for remedial action after accidental application or spill). In outdoor areas, **do not** cover with soil or incorporate spilled material into the soil surface.

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.
- 2. 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.

Maximum application rates for Spike 20P in such areas are:

- · Less than 20 inches annual precipitation: Do not apply more than 5 lb/acre Spike 20P.
- · Greater than 20 inches annual precipitation: Do not apply more than 10 lb/acreSpike 20P.

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

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[†]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 20P 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 20P where bedrock is continuously exposed or in areas of bedrock overtain by soils that are shallow or discontinuous.

Do not apply Spike 20P in areas adjacent to sinkholes or depressions lacking external drainage which occur within areas of karst topography.

Do not apply Spike 20P to high shrink/swell soils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 20P 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 buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

Not For Residential Use

EPA Reg. No. 62719-121

EPA Est. 39578-TX-1

*Trademark of DowElanco DowElanco • Indianapolis, IN 46268 U.S.A.

Specialty Herbicide

Net Contents XXX

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(Datapack cover):

(logo) DowElanco

Spike* 20P

A surface applied herbicide for woody plant control in such areas as:

Along highways

Industrial sites

- Pastureland
- Fence rows
- Pipelines

• Firebreaks

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 Rangeland
- · Clearings for wildlife habitat
- Other non-cropland areas for control of woody plant species
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(insert tree graphic) Spike* 20P will kill trees and shrubs. Carefully read the precautions before using.

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tebuthiuron: N-{5-(1,1-dimethylethyl)-	
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dimethylurea	
Inert Ingredients	
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Specialty Herbicide

Net Contents XXX

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Causes Eye Initiation - Harmful If Swallowed, Inhaled, Or Absorbed Through The Skin

Harmful if swallowed, inhaled, or absobed through skin. Causes moderate eve irritation,

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

Avoid contact with skin, eyes and/or clothing. Avoid breathing dust, Wash thoroughly with soap and water handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops.

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or if available, by administering one to two teaspoons of syrup of ipocac. Do not induce vomiting or give anything by mouth to an unconscious person. If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention. If on skin: Wash with plenty of seap and water. Get medical attention if irritation develops.

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Environmental Hazards

Do not apply Spike* 20P herbicide near desirable trees or other woody species. Exposure of even a small part of a plant root system to Spike 20P may cause severe plant injury or death. 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 washwaters or rinsate.

Spills: To prevent unintended damage to non-target vegetation or contamination of ground water, cover spills with waterproof covering if in outdoor area; then carefully collect and dispose of spilled pellets, whether in storage areas, vehicles, or on the soil surface. (See General Information section for remedial action after accidental application or spill). In outdoor areas, do not cover with soil or incorporate spilled material into the soil surface.

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.
- 2. 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.

Maximum application rates for Spike 20P in such areas are:

- · Less than 20 inches annual precipitation: Do not apply more than 5 lb/acre Spike 20P.
- · Greater than 20 inches annual precipitation: Do not apply more than 10 lb/acreSpike 20P.

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 Chamical 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 20P 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 20P where bedrock is continuously exposed or in areas of bedrock overlain by soils that are shallow or discontinuous.

Do not apply Spike 20P in areas adjacent to sinkholes or depressions lacking external drainage which occur within areas of karst topography.

Do not apply Spike 20P to high shrink/swell soils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 20P 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.

Storage and Disposal

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

Storage: The herbicidal properties of Spike 20P 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. Do not reuse. 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* 20P herbicide is a surface applied soil-active product for control of woody plants (trees, shrubs, and vines). Treatments become effective after sufficient rainfall has occurred to move the active ingredient in Spike 20P into the root zone. Herbicidal symptoms appear most rapidly when applied just before seasonal rainfall. Treated trees and shrubs (brush) exhibit leaf chlorosis and browning followed by defoliation. Woody plants may go through several defoliation cycles before death occurs. Time required to achieve control of woody vegetation may vary from one to several years. Increased application rates and additional time is required to achieve consistent woody plant control under the following conditions: (1) the treated area contains deep, medium-to-fine textured, or high organic matter soils; (2) the target species are deep-rooted; or (3) the vegetation consists of species tolerant to Spike 20P.

For best brush control results, do not disturb intact plants by such practices as wood cutting, chaining, or burning for two years after application of Spike 20P. Resprouting is more likely to occur if plants are disturbed before complete woody plant control occurs.

General Use Precautions

Spike 20P is intended for control of unwanted woody vegetation such as trees, shrubs, and vines. Spike 20P will also control herbaceous broadleaf plants such as clover or lespedeza. Grasses in the area immediately adjacent to pellets may be temporarily damaged. Dormant season application is recommended to minimize herbicidal effects on grasses and other herbaceous plants. The herbicidal activity of Spike 20P in soil may prevent the growth of trees, shrubs, and other broadleaf vegetation for several years after treatment.

Do not apply Spike 20P to interior ditch banks (areas which slope toward the drainage). Do not apply to ditches used to transport irrigation water or potable water.

Use Restrictions in the State of Florida

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In Broward, Collier, Dade, Hendry, Lee, Monroe, and Palm Beach Counties of Florida, Spike 20P may be applied only in accordance with supplemental labeling.

Maximum Application Rate for Grazing or Haying: If treated area is to be used for haying or grazing, do not apply more than 20 pounds per acre of Spike 20P. If treated area is to be used for grazing or haying, do not apply more than 10 pounds per acre of Spike 20P in areas receiving 20 inches or less average annual rainfall, or more than 20 pounds per acre of Spike 20P in areas receiving more than 20 inches average annual rainfall.

Haying Restriction: Do not cut hay for livestock feed for one year after a Spike 20P treatment.

Effects on Herbaceous Vegetation: Spike 20P may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Injury to most herbaceous perennial plants is reduced if Spike 20P is applied when vegetation is dormant.

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Do not apply Spike 20P more than once per year.

Safe use of Spike 20P requires the following guidelines to be carefully followed;

Treatment Setback: Do not apply Spike 20P in the vicinity of desirable plants. Exposure of even a small part of a plant root system to Spike 20P may cause severe plant injury or death.

Note: Plant roots usually occupy an area much larger than the aerial portion of the plant. Treatment setback distance should be 1 to 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 25 to 50 feet.

If there is a question about appropriate setback distance, contact an Arborculturist (tree expert) to determine if the proposed treatment area is free of roots of desirable vegetation.

Potential Product Movement: Spike 20P or soil containing Spike 20P may be moved from treated areas by flowing water, wind, or mechanical means. Do not apply Spike in areas where overland flow of water might move Spike 20P or soil containing Spike 20P from the treated area. Do not apply where wind erosion may cause movement of soil containing Spike 20P from the treated area unless the surface has been stabilized with a gravel mulch or some other means. Do not apply in areas where soil may be redistributed by mechanical means to non-treated areas.

Cleaning of Equipment: Thoroughly clean all traces of Spike 20P from application equipment after use. Do not empty residues cleaned from application equipment on areas where contact with roots of desirable vegetation may occur.

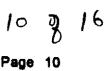
Remedial Action After Accidental Application or Spill: Take action to minimize the effects of an accidental application or spill immediately. Once rainfall has moved Spike 20P into the plant root zone, the effect on woody plants is inversible. Damage from accidental application or spill may be prevented only if soil containing Spike 20P is carefully removed before rainfall has moved Spike 20P into the root zone. Apply a waterproof covering to the affected area until cleanup is accomplished. Carefully collect Spike 20P pellets and/or soil containing Spike 20P with appropriate equipment and dispose at an approved landfill site. If rainfall has occurred, remove surface soil in the affected area to the depth of Spike 20P penetration.

Frequency of Application and Maximum Use Rates:

Broadcast Applications (Aerial or Ground Equipment):

- The maximum use rate and frequency of application is 1 to 2 lb a.i./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 4 lb a.i./acre once every three years and no more than two treatments totaling of 6 lb a.i./acre in any 6 year period.

Spot Treatments (Hand Application or Hand-held Equipment): May be applied at rates up to 6 to a.i./acre when needed.



Factors in Herbicidal Response

Soil Texture, Soil Depth, and Organic Matter

Poor control or erratic results are likely to occur when Spike 20P is applied to soils containing more than 5% organic matter or more than 36% clay. Do not apply to "blackland" or other heavy clay soils which crack extensively upon drying. Other deep, medium, and fine-textured soils supporting deep-rooted woody plant species require increased application rates for consistent control. The susceptibility of woody plants occurring on shallow, coarse, or rocky soils with low organic matter is normally increased due to increased soil availability of Spike 20P and shallow rooting depth. Therefore, use application rates at the low end of the rate range in these situations.

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 more dense where soils are deeper and/or of medium to fine texture and where soil moisture conditions are more favorable. Higher rates in the rate range are required on such sites. On sites with coarse, shallow, or rocky conditions with less favorable soil moisture conditions, woody vegetation will be smaller and less dense. Lower rates in the rate range are required for control 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 20P at a rate sufficient to control the tallest and most dense woody vegetation in the treatment area.

Application Timing

Spike 20P 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.

Spike 20P 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 20P works best when there is an abundance of active leaf area to stimulate water and herbicide uptake during the season following application. Taller regrowth will tend to provide faster and more consistent brush control.

Spike 20P 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 20P 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 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.

Rangeland and Pasture Management Information

There are no label restrictions which require livestock grazing to be delayed following an application of Spike 20P. Spike 20P is a pelleted formulation and does not adhere to plants. Therefore, significant plant residues do not occur as a result of application. However, at the time of application forage species may be sparsely distributed and in a low state of vigor due to competition from woody plants. Under such circumstances, the density and vigor of forage species may be enhanced by deferment of grazing following application of Spike 20P.

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Grazing Management

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 grazing of mature forage after seed maturity will not harm grass recovery 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.

Precaution: The density of cool season grass stands such as fescue and crested wheatgrass may be reduced after application of Spike 20P. Factors which may contribute to the possibility of stand reduction include excessive application rates, areas of shallow or rocky soil, and low brush density.

Rangeland and Pasture Overseeding: Apply Spike 20P at recommended rates. Overseeding involving burning or chaining of treated brush should not be attempted for at least two growing seasons after application. Apply seed and fertilizer at recommended rates into ash as soon as possible after burning or just prior to chaining. Cool season grasses are normally seeded in early fall and warm season grasses in the spring after the expected frost-free date. Aerial seeding without burning or chaining may be attempted in the fall or spring following an application of Spike 20P, but natural seedbed conditions must be relied upon for seedling establishment. Consult local range management specialists for recommendations on locally adapted species, seeding time, and grazing management.

Application of Spike 20P

Individual Plant Treatments

Individual plants, multistem clumps, or small stands of woody vegetation may be hand treated. For individual plant treatments apply Spike 20P evenly over the area occupied by the target plant(s).

Pasture and Rangeland

- In areas receiving 20 inches or less average annual rainfall: Apply Spike 20P at a rate of 3/8 oz per 100 sq ft (equivalent broadcast rate = 10 lb/acre).
- In areas receiving more than 20 inches average annual rainfall: Apply Spike 20P at a rate of 3/4 oz per 100 sq ft (equivalent broadcast rate = 20 lb/acre).

Non-Cropland

Apply Spike 20P at a rate of 3/8 oz to 1 1/8 oz per 100 sq ft (equivalent broadcast rate = 10 to 30 lb/acre).

Broadcast Treatments

Spike 20P must be applied with ground or aerial application equipment capable of accurate calibration and able to provide a uniform distribution of pellets on the soil surface. Use of equipment not capable of confining the spread of pellets to the target area may result in injury or death of vegetation outside the intended treatment area. Contact a DowElanco sales representative for recommendations on application equipment for different use situations.

Spike 20P may be applied by ground or air broadcast by/or under the supervision of U.S. Government Agencies.

Broadcast Application Fostes

Pasture and Rangeland: Do not apply more than 10 pounds per acre Spike 20P in areas receiving 20 inches or less average annual rainfall. Do not apply more than 20 pounds per acre in areas receiving 20 inches or more average annual rainfall.

Non-Cropland: Do not apply more than 20 pounds per acre of Spike 20P on non-cropland.

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.

Woody Plants Controlled by Spike 20P

Rangeland, Pastureland, and Hon-Cropland:

Apply Spike 20P at 3.75 to 5 ib per acre on the following woody plant species:

Note: On rangeland and pastureland, apply 3.75 to 5 lb/acre of Spike 20P where a higher degree of control is required (See "Factors in Herbicidal Response" in "General Information" section of this label). Spike 20P may be applied at rates as low as 2.5 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
burroweed	Haplopappus tenuisectus
(Density less than 1/sq ft)	
ceniza	Leucophyllum frutescens
creosotebush	Larrea tridentata
mimosa, catclaw	Mimosa pigra
(wait-a-minute-bush)	
Paloverde	Cercidium spp.
sagebrush, big	Artemisia tridentata
sagebrush, sand	Artemisia filifolia
snakeweed, broom	Gutierrezia sarothrae
(Density less than 1/sq ft)	
tarbush	Flourensia cernua
whitethom	Acacia constricta

Rangeland, Pastureland, and Non-Cropland:

Apply Spike 20P at 2.5 to 10.0 lb per acre on the following woody plant species:

Common Name	Scientific Name
oak, sand shinnery [†]	Quercus havardii

^TNote: 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" in "General Information" section of this label).

Rangeland, Pastureland, and Non-Cropland;

Apply Spike 20P at 5 to 10 lb per acre on the following woody plant species:

Common Name	Scientific Name
oak, bigelow [†]	Quercus durandi
(Partial control)	
oak, mohr†	Quercus mohriana
(Partial control)	
oak, running live [†]	Quercus virginiana
(Partial control)	•
whitebrush	Aloysia lycoidas
wolfberry, Berlandier	Lycium berlanderi

TNote: Use a higher dosage in indicated rate range on tall and dense stands.

Rangeland, Pastureland, and Non-Cropland;

Apply Spike 20P at 10 to 20 lb per acre on the following woody plant species:

Common Name Scientific Name acacia, blackbrush acacia, catclaw acacia, twisted apple-of-sodom birch, gray blueberry bluewood (Brazil) buckbrush orbiculatus cherry, bitter dogwood, roughleaf elm, American elm, winged Ulmus alata guajillo guava hackberry, spiny Celtis pallida (granjeno) Celtis occidentalis hackberry, western hawthorn huckleberry koa haole Leucaena locust, black manzanita mulberry, red Morus rubra oak, black oak, blackjack oak, blueoak, bur oak, post oak, shrub live oak, southern red oak, white rose, multiflora sage, black sumac, dwarf Rhus copallina

Acacia rigidula Acacia greggii Acacla tortuosa Solanum sodomeum Betula populifolia Vaccinium spp. Condalia obovata S/mphoricarpos Prunus emarginata Cornus drummondii Ulmus americana Acacia berlanderi Psidium guajava

Crataegus spp. Gaylussacia spp. leucocephalla Robinia pseudoacacia Arctostaphylos spp. Quercus velutina Quercus marilandica Quercus douglasii Quercus macrocarpa Quercus stellata Quercus turbinella Quercus falcata Quercus alba Rosa multifiora Salvia melifera

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sumac, littleleafRisumac, skunkbushRisumac, smoothRisumac, staghornRithomapple, desertDiyauponIkiyaupon, desertSi

Rhus microphylie Rhus trilobata Rhus glabra Rhus typhina Datura discolor liex vomitoria Schaefferia cuneifolia

[†]Note: Use a higher dosage in indicated rate range on all sites.

Rangeland, Pastureland, and Non-Cropland:

Apply Spike 20P at 20 lb per acre on the following woody plant species:

Scientific Name Common Name alder, red Ainus rubra Alnus rugose alder, speckled[†] Populus grandidentata aspen, bigtooth beech, American Fagus grandifolla blackberry Rubus spp. Acer negundo boxelder chamise Adenostoma fasciculatum Prunus serotina cherry, black Prunus virainiana chokecherry, common Colubrina texensis colubrina, Texas cottonwood, eastem[†] Populus deltoides creeper, Virginia Parthenocissus quinquefolia dogweed, flowering Cornus florida Pseudotsuga menziesii douglasfir fir, balsam[†] Abies balsamea Portieria angustifolia guayacan Spiraea tomentosa hardhack[†] hickory, bittemut Carava cordiformis hickory, black Caraya texana Caraya glabra hickory, pignut Caraya ovata hickory, shagbark huisache[†] Acacia tamesiana kidneywood, Texas Evsenhardtia texana Pueraria lobata kudzu leatherstem Jatropha dioica lotebust (condalia) Ziziphus obtusifolia maple, bigleaf Acer macrophyllum Acer saccharum maple, sugar^T melaleucaT Melaleuca quinquenervia mountainmahogany, Cercocarpus betuloides birchleaf Quercus dumosa oak, California scrub oak, live Quercus virginiana Quercus palustrus oak, pin oak, red Quercus rubra Quercus alba oak, white Casuarina spp. pine, Australian pine Pinus sop. poplar, balsam[†] Populus balsamifera Rubus occidentalis raspberry, black Rosa bracteata rose, Mccartney^T

spruce, white†Picea glaucasweetgumLiquidambar styracifluatamarack†Larix laricinatrumpetcreeperCampsis radicanswillowSalix spp.

TNote: Use a higher dosage in indicated rate range on ail sites.

Rangeland, Pastureland, and Non-Cropland (Individual Plant Treatment Only):

Common Name	Scientific Name
ash, green	Fraxinus pennsylvanica
ash, white	Fraxinus americana
blackberry, cutleaf	Rubus laciníatus
ceanothus, wedgeleaf	Ceanothus cuneatus
chaparral, whitethorn	Ceanothus leucodermis
coyotebush	Baccharis pilularis
elm, Chinese	Ulmus parvifolia
elm, slippery	Ulmus rubra
greenbriar, roundleaf	Smilax rotundifolia
hawthorn, cockspur	Crataegus crus-calli
lantana	Lantana camara
manzanita; greenleaf	Arctostaphylos patula
maple, Norway	Acer platanoides
maple, silver	Acer saccharinum
maple, vine	Acer circinatum
peppertree, Brazilian	Schinus terebinthifolius
privet	Ligustrum spp.
redcedar, eastern	Juniperus virginiana
Russianolive	Eleagnus angustifolia
salai	Gaultheria shallon
sumac, laurel	Rhus laurina
sycamore, American	Platanus occidentalis
tallowtree, Chinese	Sapium sebiferum
tuliptree	Liriodendron tulipifera

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- 2. Replacement of amount of product used

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