

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460United States
Environmental Protection
AgencyOffice of Pesticide ProgramsBASF
26 Davis Dr.
Research Triangle Park, NC 27709

JAN 22 2010

Subject: Amendment
EPA Reg. No.: 241-438
BAS 711 02H Herbicide

Dear Dr. Birk,

The Agency has revisited your request for an amendment to add bare-ground weed and utility brush control directions to the above-mentioned registration, dated August 14, 2009. The label, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided the following modifications are made:

1. On page 4, replace the word "General" in "General Information" with "Product."
Use of the word "general" renders all information below it unenforceable.

If you have any questions, please contact Kathryn Montague (703-305-1243 or montague.kathryn@epa.gov).

Sincerely,

for
Jim Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

BAS 711 02H

herbicide

For control of weeds on specified noncrop and forestry sites

Active Ingredients:

isopropylamine salt of imazapyr: (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*	6.68%
isopropylamine salt of glyphosate: N-(phosphonomethyl)glycine	22.10%

Other Ingredients:	71.22%
Total:	100.00%

* Equivalent to 5.45% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 0.5 pound per gallon and 16.36% N-(phosphonomethyl)glycine acid or 1.5 pounds per gallon.

EPA Reg. No. 241-438

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN**

**ACCEPTED
with COMMENTS
In EPA Letter Dated:
JAN 22 2010**

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.)

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

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

241-438

In case of emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

 **BASF**
The Chemical Company

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to by a poison control center or doctor. • DO NOT give anything to an unconscious person.
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth to mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are barrier laminate, butyl rubber, or polyethylene. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all mixers and loaders, plus applicators using handheld equipment

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands with plenty of soap and water 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.

Environmental Hazards

This product is toxic to plants. Drift and runoff may be hazardous to plants in water adjacent to treated areas.

DO NOT apply directly to water, or 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. See **Directions For Use** for additional precautions and requirements.

Physical and Chemical Hazards

Spray solutions of **BAS 711 02H herbicide** must be mixed, stored, and applied only in stainless steel, fiber-glass, plastic, and plastic-lined steel containers.

DO NOT mix, store, or apply **BAS 711 02H** or spray solutions of **BAS 711 02H** in unlined steel (except stainless steel) containers or spray tanks.

Directions For Use

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

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.

Use **BAS 711 02H herbicide** only in accordance with specific use directions and restrictions on the label. Keep containers closed to avoid spills and contamination.

BAS 711 02H may be applied using helicopters, fixed-wing aircraft (noncrop sites only), ground-operated sprayers, low-volume hand-operated spray equipment such as backpack and pump-up sprayers.

Observe all cautions and limitations in the package labels of products used in combination with **BAS 711 02H**.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. 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.

The requirements in this box apply to use on trees being grown for sale or other commercial use, or for commercial seed production, or for production of timber or wood products, or for research purposes.

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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Noncrop weed control is not within the scope of the Worker Protection Standard. See the **General Information** section of this label for a description of noncrop sites.

DO NOT enter or allow others to enter treated areas until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage

DO NOT store below 10° F.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Disposal

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

Triple rinse containers too large to shake (capacity > 5 gallons) 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.

(continued)

STORAGE AND DISPOSAL (continued)**Container Disposal** (continued)

Pressure rinse as follows: Empty the remaining contents into 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 Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

IMPORTANT: DO NOT use on food or feed crops.

DO NOT use on Christmas trees. **DO NOT** treat irrigation ditches or water used for crop irrigation or for domestic uses. Keep from contact with fertilizers, insecticides, fungicides, and seeds to prevent unintentional exposure of desirable vegetation to **BAS 711 02H herbicide**. **DO NOT** apply, or drain, or flush equipment on or near sensitive desirable plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. **DO NOT** side trim desirable vegetation with this product. Prevent drift of spray to desirable plants.

Clean application equipment after using this product by thoroughly flushing with water.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

General Information

BAS 711 02H is an aqueous solution to mix in water with an adjuvant and apply as a postemergence spray for control of most annual and perennial grasses, broadleaf weeds, vines and brambles, and hardwood brush and trees for forestry site preparation, and specified noncrop sites. Noncrop sites include railroads, utility, pipeline and highway rights-of-way; fence rows, farmyards and around farm buildings, nonirrigation ditch banks, and industrial noncropland areas such as utility plant sites, petroleum tank farms, pumping installations and storage areas, where bareground is desired.

BAS 711 02H will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. **BAS 711 02H** will provide residual control of weeds which germinate in the treated areas. For annual weed control, **BAS 711 02H** may be applied either preemergence or postemergence to weeds; however, a late preemergence to early postemergence application is the method of choice in most situations. For perennial weed control, **BAS 711 02H** is only effective when applied postemergence and will not control perennial weeds that are not emerged at the time of application. For maximum activity, weeds should be growing vigorously at the time of postemergence application. Include a spray adjuvant in the spray solution. For specific recommendations, see **Adjuvants** section of this label.

The length of residual weed control achieved with **BAS 711 02H** is dependent upon the weed spectrum present, the rate applied, and weather conditions. Longer residual control can be achieved in areas with sensitive weed species, higher **BAS 711 02H** use rates, lower precipitation and cooler soil temperatures. Extremes in weather conditions, such as higher than average rainfall, can significantly affect the residual control of **BAS 711 02H** and shorten the overall length of control.

BAS 711 02H may be applied on forestry sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by forest management activities, except in the states of California and New York. It is permissible to treat drainage ditches, intermittent drainage,

intermittently flooded low-lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites when no water is present, except in the states of California and New York. Only the edge of drainage ditches can be treated for drainage ditches that contain water. It is also permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York. **DO NOT** apply to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams, rivers, and canals.

Use **BAS 711 02H herbicide** for control of undesirable vegetation along forest roads, nonirrigation ditchbanks, and for the establishment and maintenance of wildlife openings, except in the state of California. See use directions for **Directed Foliar or Spot Sprays** and **Site Preparation Treatment**.

Symptomology

BAS 711 02H is readily absorbed through foliage and roots and is translocated rapidly throughout the plant with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis first appears in the youngest leaf tissue. In perennials, the herbicide is translocated into the roots, thus preventing most resprouting. The foliage of most woody plants, brush, and trees will normally display color change and necrosis within several weeks after application.

Mixing and Application Instructions

Broadcast Application

Helicopter Spray Equipment

Thoroughly mix the specified amount of **BAS 711 02H** in 5 to 30 gallons of water per acre and uniformly apply with properly calibrated aerial equipment. Take all precautions to minimize or eliminate spray drift. **DO NOT** apply under windy or gusty conditions. The use of controlled droplet booms and nozzle configurations is recommended. A drift-control agent may be added at the recommended label rate except when applying with a **Microfoil® boom**, **Thru-Value® boom** or other similar equipment. A foam-reducing agent may be added at the recommended label rate, if needed.

IMPORTANT: Maintain adequate buffer zones. Thoroughly clean application and mixing equipment, including landing gear, immediately after use. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part.

Ground-operated Spray Equipment

Thoroughly mix and apply the specified amount of **BAS 711 02H** in 5 to 60 gallons of water per acre. A drift-control agent and a foam-reducing agent may be added at the recommended label rates, if needed. A spray pattern indicator may be added at the recommended label rate. For best results, uniformly cover the foliage of the vegetation to be controlled with the spray solution.

IMPORTANT: DO NOT spray under windy or gusty conditions. Maintain adequate buffer zones. Clean application and mixing equipment after using this product by thoroughly flushing with water.

Directed Foliar or Spot Sprays

In addition to broadcasting the mixed herbicide solution across an entire acre, the solution can also be directed to individual clumps of herbaceous and woody weeds or to spots within the acre. Backpack sprayers and ground-operated equipment with hoses are generally used for directed foliar or spot sprays. Specialized helicopter equipment can also be used for this purpose. When making directed or spot spray applications with backpack sprayers, ground-operated equipment, helicopters, or similar equipment that permits directed application, thoroughly mix a solution of 5 to 10 percent by volume of **BAS 711 02H**.

To mix the spray solution, add the volume of **BAS 711 02H** indicated in the following table to the desired amount of water.

Spray Solution Mixing Guide

Solution Volume (gallons)	BAS 711 02H Percentage of Total Solution Volume	
	5%	10%
1	6.4 fl ozs	12.8 fl ozs
5	2.0 pints	4.0 pints
10	4.0 pints	8.0 pints
25	10.0 pints	20.0 pints
100	5.0 gallons	10.0 gallons

For best results, uniformly cover the foliage of the vegetation to be controlled with the spray solution.

IMPORTANT: DO NOT overapply causing runoff from the treated foliage. Avoid direct application and drift to the foliage, thin bark, and rooting zone of desired plant species because injury may occur. Even if the herbicide is directed to clumps and spots within an acre and not broadcast, **DO NOT** exceed 3 gallons of **BAS 711 02H** per acre.

Site Preparation Treatment

Use **BAS 711 02H** at 1 gallon of product per acre to control listed grass, broadleaf weeds, vines and brambles, and woody brush and trees on forest sites in advance of regeneration for the following conifer crop species:

- Loblolly pine (*Pinus taeda*)
- Loblolly X Pitch hybrid
- Longleaf pine (*Pinus palustris*)
- Shortleaf pine (*Pinus echinata*)
- Slash pine (*Pinus elliottii*)
- Virginia pine (*Pinus virginiana*)

Within 4 to 6 weeks of treatment, herbaceous weeds including grass and woody vegetation will be controlled and may provide fuel to facilitate a site preparation burn, if

desired, to enhance control of conifers or other species tolerant to the herbicide.

Apply 1 gallon of **BAS 711 02H herbicide** per acre in 5 to 30 gallons total spray solution for helicopter application, or 5 to 60 gallons total spray solution for mechanical ground-spray and backpack application. Use higher spray volumes when controlling particularly dense or multilayered canopies of hardwood stands or difficult-to-control species.

Bareground Weed Control

BAS 711 02H controls many annual weeds when applied either preemergence or postemergence, and many perennial weeds when applied postemergence. See the **Weeds Controlled** section for a list of susceptible weeds.

Mix **BAS 711 02H** in water and apply with properly calibrated equipment to uniformly deliver the desired gallons per acre of spray volume. Apply **BAS 711 02H** at a minimum of 1 gallon of product per acre. **DO NOT** apply more than a total of 3 gallons per acre in a 12-month period.

The length of residual weed control achieved with **BAS 711 02H** may be significantly affected by rainfall amounts. To achieve the desired residual control with increasing rainfall amounts, apply higher rates of **BAS 711 02H**.

Postemergence Applications

Always use a spray adjuvant (see **Adjuvants** section of this label) when applying postemergence. For optimum performance on tough-to-control perennial weeds, make applications at a total volume of 100 gallons per acre or less in combination with 1 quart per acre of methylated seed oil (MSO).

Spot Treatment and Crack and Crevice Treatment

Use **BAS 711 02H** as an initial or follow-up treatment to control escapes or weed encroachment in bareground including cracks and crevices in paved surfaces such as roadways, runways and parking areas. Apply as a spot treatment using a 5% to 10% solution of **BAS 711 02H**.

Tank Mixes

For increased burndown, spectrum of control and resistant weed management, tank mix **BAS 711 02H** with other herbicides approved for the same use.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank mixes.

Utility Brush Control

For brush control on utility rights-of-way, apply 0.5 to 0.75 gallons **BAS 711 02H** per acre as a broadcast foliar spray. For directed foliar individual plant treatments, apply **BAS 711 02H** as a 2.0% to 4.0% solution (v/v). Always use a spray adjuvant (see **Adjuvants** section of this label) when making foliar applications.

Adjuvants

Postemergence applications of **BAS 711 02H** require a spray adjuvant. Methylated seed oils (MSO) are the adjuvant of choice and will increase control of perennial weeds.

MSO or Vegetable Oil Concentrate

Use a methylated seed oil or vegetable-based seed oil concentrate at 1.5 to 2 pints per acre. When using spray volumes greater than 30 gallons per acre, mix MSO or vegetable-based seed oil concentrates at 1% of the total spray volume or use a nonionic surfactant (NIS). Research indicates that these oils may aid in **BAS 711 02H** deposition and uptake by plants under moisture or temperature stress.

Nonionic Surfactant

Use an NIS at 0.25% volume/volume (v/v) or higher of the spray solution (see manufacturer's label); 0.25% v/v is equivalent to 1 quart in 100 gallons. For best results, select an NIS with a hydrophilic to lipophilic balance (HLB) ratio between 12 and 17 and having at least 70% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

Silicone-based Surfactant

See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplets allowing greater spreading on the leaf surface than conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly limiting herbicide uptake.

Fertilizer/Surfactant Blend

Nitrogen-based liquid fertilizers, such as 28% N, 32% N, 10-34-0, or ammonium sulfate, may be added at 2 to 3 pints per acre in combination with the recommended rate of NIS, MSO or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without an NIS, MSO, or vegetable/seed oil concentrate is not recommended.

Spray Drift Requirements

Aerial Application

- Applicators are required to use a coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.
- Applicators are required to use upwind swath displacement.
- The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.

- Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

Ground Boom Application

- Applicators are required to use a nozzle height below 4 feet above the ground or plant canopy and coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater.
- Applications with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

Weeds Controlled

When applied as directed, **BAS 711 02H herbicide** will control, partially control, or suppress most woody brush, trees and herbaceous weeds, some of which are listed on the following pages. Degree of control and residual efficacy are species dependent. **BAS 711 02H** may be used to attempt to control or suppress additional weed species not included in the following list. Use **BAS 711 02H** only in accordance with the instructions, restrictions, and directions on this label.

Annual and Perennial Grass		
Annual bluegrass (<i>Poa annua</i>)	Fescue (<i>Festuca</i> spp.)	Quackgrass (<i>Agropyron repens</i>)
Bahiagrass (<i>Paspalum notatum</i>)	Foxtail (<i>Setaria</i> spp.)	Reed canarygrass (<i>Phalaris arundinacea</i>)
Barnyardgrass (<i>Echinochloa crus-galli</i>)	Giant reed (<i>Arundo donax</i>)	Saltgrass (<i>Distichlis stricta</i>)
Beardgrass (<i>Andropogon</i> spp.)	Goosegrass (<i>Eleusine indica</i>)	Sand dropseed (<i>Sporobolus cryptandrus</i>)
Bermudagrass (<i>Cynodon dactylon</i>)	Guineagrass (<i>Panicum maximum</i>)	Sandbur (<i>Cenchrus</i> spp.)
Big bluestem (<i>Andropogon gerardii</i>)	Italian ryegrass (<i>Lolium multiflorum</i>)	Smooth brome (<i>Bromus inermis</i>)
Broadleaf signalgrass (<i>Brachiaria platyphylla</i>)	Itchgrass (<i>Rottboellia exaltata</i>)	Sprangletop (<i>Leptochloa</i> spp.)
Canada bluegrass (<i>Poa compressa</i>)	Johnsongrass (<i>Sorghum halepense</i>)	Timothy (<i>Phleum pratense</i>)
Cattail (<i>Typha</i> spp.)	Junglerice (<i>Echinochloa colonum</i>)	Torpedograss (<i>Panicum repens</i>)
Cheat (<i>Bromus secalinus</i>)	Kentucky bluegrass (<i>Poa pratensis</i>)	Vaseygrass (<i>Paspalum urvillei</i>)
Cogongrass (<i>Imperata cylindrica</i>)	Lovegrass (<i>Eragrostis</i> spp.)	Wild barley (<i>Hordeum</i> spp.)
Crabgrass (<i>Digitaria</i> spp.)	Orchardgrass (<i>Dactylis glomerata</i>)	Wild oats (<i>Avena fatua</i>)
Crowfootgrass (<i>Dactyloctenium aegyptium</i>)	<i>Panicum</i> spp.	Wirestem muhly (<i>Muhlenbergia frondosa</i>)
Dallisgrass (<i>Paspalum dilatatum</i>)	Paragrass (<i>Brachiaria mutica</i>)	Witchgrass (<i>Panicum capillare</i>)
Downy brome (<i>Bromus tectorum</i>)	Phragmites (<i>Phragmites australis</i>)	Woolly cupgrass (<i>Eriochloa villosa</i>)
Fall panicum (<i>Panicum dichotomiflorum</i>)	Prairie cordgrass (<i>Spartina pectinata</i>)	
Feathertop (<i>Pennisetum villosum</i>)	Prairie threeawn (<i>Aristida oligantha</i>)	

Weeds Controlled (continued)

Annual and Perennial Broadleaf Weeds		
Arrowwood (<i>Pluchea sericea</i>)	Gray rabbitbrush (<i>Chrysothamnus nauseosus</i>)	Rush skeletonweed (<i>Chondrilla juncea</i>)
Broom snakeweed (<i>Gutierrezia sarothrae</i>)	Henbit (<i>Lamium applexicaule</i>)	Russian knapweed (<i>Centaurea repens</i>)
Bull thistle (<i>Cirsium vulgare</i>)	Hoary vervain (<i>Verbena stricta</i>)	Russian thistle (<i>Salsola kali</i>)
Burclover (<i>Medicago</i> spp.)	Horseweed (<i>Conyza canadensis</i>)	Saltbush (<i>Atriplex</i> spp.)
Burdock (<i>Arctium</i> spp.)	Indian mustard (<i>Brassica juncea</i>)	Shepherd's purse (<i>Capsella bursa-pastoris</i>)
Camphorweed (<i>Heterotheca subaxillaris</i>)	Japanese bamboo/knotweed (<i>Polygonum cuspidatum</i>)	Silverleaf nightshade (<i>Solanum elaeagnifolium</i>)
Canada thistle (<i>Cirsium arvense</i>)	Knotweed, prostrate (<i>Polygonum aviculare</i>)	Smartweed (<i>Polygonum</i> spp.)
Carolina geranium (<i>Geranium carolinianum</i>)	Kochia (<i>Kochia scoparia</i>)	Sorrell (<i>Rumex</i> spp.)
Carpetweed (<i>Mullugo verticillata</i>)	Lambsquarters (<i>Chenopodium album</i>)	Sowthistle (<i>Sonchus</i> spp.)
Chickweed, mouseear (<i>Cerastium vulgatum</i>)	Little mallow (<i>Malva parviflora</i>)	Spurge, annual (<i>Euphorbia</i> spp.)
Clover (<i>Trifolium</i> spp.)	Milkweed (<i>Asclepias</i> spp.)	Stinging nettle (<i>Urtica dioica</i>)
Cocklebur (<i>Xanthium strumarium</i>)	Miner's lettuce (<i>Montia perfoliata</i>)	Sunflower (<i>Helianthus</i> spp.)
Common chickweed (<i>Stellaria media</i>)	Mullein (<i>Verbascum</i> spp.)	Sweet clover (<i>Melilotus</i> spp.)
Common ragweed (<i>Ambrosia artemisiifolia</i>)	Nettleleaf goosefoot (<i>Chenopodium murale</i>)	Tansymustard (<i>Descurainia pinnata</i>)
Cudweed (<i>Gnaphalium</i> spp.)	Oxeye daisy (<i>Chrysanthemum leucanthemum</i>)	Texas thistle (<i>Cirsium texanum</i>)
Dandelion (<i>Taraxacum officinale</i>)	Pepperweed (<i>Lepidium</i> spp.)	Velvetleaf (<i>Abutilon theophrasti</i>)
Desert camelthorn (<i>Alhagi pseudalhagi</i>)	Pigweed (<i>Amaranthus</i> spp.)	Western ragweed (<i>Ambrosia psilostachya</i>)
Diffuse knapweed (<i>Centaurea diffusa</i>)	Plantain (<i>Plantago</i> spp.)	Wild carrot (<i>Daucus carota</i>)
Dock (<i>Rumex</i> spp.)	Pokeweed (<i>Phytolacca americana</i>)	Wild lettuce (<i>Lactuca</i> spp.)
Dogfennel (<i>Eupatorium capillifolium</i>)	Primrose (<i>Oenothera kunthiana</i>)	Wild parsnip (<i>Pastinaca sativa</i>)
Fiddleneck (<i>Amsinckia intermedia</i>)	Puncturevine (<i>Tribulus terrestris</i>)	Wild turnip (<i>Brassica campestris</i>)
Filaree (<i>Erodium</i> spp.)	Purple loosestrife (<i>Lythrum salicaria</i>)	Woollyleaf bursage (<i>Ambrosia grayi</i>)
Fleabane (<i>Erigeron</i> spp.)	Purslane (<i>Portulaca</i> spp.)	Yellow starthistle (<i>Centaurea solstitialis</i>)
Giant ragweed (<i>Ambrosia trifida</i>)	Pusley, Florida (<i>Richardia scabra</i>)	Yellow woodsorrel (<i>Oxalis stricta</i>)
Goldenrod (<i>Solidago</i> spp.)	Rocket, London (<i>Sisymbrium irio</i>)	

Weeds Controlled (continued)

Vines and Brambles		
Field bindweed (<i>Convolvulus arvensis</i>)	Poison ivy (<i>Rhus radicans</i>)	Wild buckwheat (<i>Polygonum convolvulus</i>)
Hedge bindweed (<i>Calystegia sepium</i>)	Redvine (<i>Brunnichia cirrhosa</i>)	Wild grape (<i>Vitis</i> spp.)
Honeysuckle (<i>Lonicera</i> spp.)	Trumpet creeper (<i>Campsis radicans</i>)	Wild rose (<i>Rosa</i> spp.) including: Multiflora rose (<i>Rosa multiflora</i>) Macartney rose (<i>Rosa bracteata</i>)
Morningglory (<i>Ipomoea</i> spp.)	Virginia creeper (<i>Parthenocissus quinquefolia</i>)	
Woody Brush and Trees		
Alder (<i>Alnus</i> spp.)	Cottonwood (<i>Populus trichocarpa</i> and <i>Populus deltoides</i>)	Privet (<i>Ligustrum vulgare</i>)
American beech (<i>Fagus grandifolia</i>)	Cypress (<i>Taxodium</i> spp.)	Red alder (<i>Alnus rubra</i>)
Ash (<i>Fraxinus</i> spp.)	Dogwood (<i>Cornus</i> spp.)	Red maple (<i>Acer rubrum</i>)
Aspen (<i>Populus</i> spp.)	Eucalyptus (<i>Eucalyptus</i> spp.)	Saltcedar (<i>Tamarix pentandra</i>)
Autumn olive (<i>Elaeagnus umbellata</i>)	Hawthorn (<i>Crataegus</i> spp.)	Sassafras (<i>Sassafras albidum</i>)
Bald cypress (<i>Taxodium distichum</i>)	Hickory (<i>Carya</i> spp.) ¹	Sourwood (<i>Oxydendrum arboreum</i>) ¹
Bigleaf maple (<i>Acer macrophyllum</i>)	Huckleberry (<i>Gaylussacia</i> spp.)	Sumac (<i>Rhus</i> spp.)
Birch (<i>Betula</i> spp.)	<i>Lyonia</i> spp. including: Fetterbush (<i>Lyonia lucida</i>) Staggerbush (<i>Lyonia mariana</i>)	Sweetgum (<i>Liquidambar styraciflua</i>)
Black oak (<i>Quercus kelloggii</i>)	Madrone (<i>Arbutus menziesii</i>)	Sycamore (<i>Platanus occidentalis</i>)
Blackgum (<i>Nyssa sylvatica</i>) ¹	Maple (<i>Acer</i> spp.)	Tanoak (<i>Lithocarpus densiflorus</i>)
Boxelder (<i>Acer negundo</i>)	Melaleuca (<i>Melaleuca quinquenervia</i>)	Titi (<i>Cyrilla racemiflora</i>)
Brazilian peppertree (<i>Schinus terebinthifolius</i>)	Mulberry (<i>Morus</i> spp.) ²	Tree of heaven (<i>Ailanthus altissima</i>)
Ceanothis (<i>Ceanothis</i> spp.)	Oak (<i>Quercus</i> spp.)	<i>Vaccinium</i> spp. including: Blueberry (<i>Vaccinium</i> spp.) Sparkleberry (<i>Vaccinium arboreum</i>)
Cherry (<i>Prunus</i> spp.) ¹	Persimmon (<i>Diospyros virginiana</i>) ¹	Willow (<i>Salix</i> spp.)
Chinaberry (<i>Melia azedarach</i>)	Poison oak (<i>Rhus diversiloba</i>)	Yellow-poplar (<i>Liriodendron tulipifera</i>)
Chinese tallow-tree (<i>Sapium sebiferum</i>)	Popcorn-tree (<i>Sapium sebiferum</i>)	
Chinquapin (<i>Castanopsis chrysophylla</i>)	Poplar (<i>Populus</i> spp.)	

¹ Best control with applications prior to formation of fall leaf color.² The degree of control may be species dependent.

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