

241-438

06/02/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

241-438

Date of Issuance:

JUN - 2 2009

NOTICE OF PESTICIDE:

- x Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance: conditional

Name of Pesticide Product:

BAS 711 02H

Name and Address of Registrant (include ZIP Code):

BASF Corporation
26 Davis Dr.
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Submit the data listed below:
a. Storage Stability (830.6320) and Corrosion Characteristics (830.6317) studies within 1 year of the date of this registration notice.
3. Make the following label changes:
a. Precautionary Statements: Revise statement to read, "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.
b. First Aid Statement: Note that the "If in eyes," "If on skin or clothing," and "If inhaled," sections are optional, as the acute toxicity profile for this product is Category IV for acute dermal, inhalation, primary eye and primary skin irritation.

Signature of Approving Official:

[Handwritten signature of Jim Tomkins]

Date:

JUN - 2 2009

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

c. General Information:

- i. Move the Spray Drift Requirements section to the Mixing and Application Instructions section of the label.
- d. Add the EPA Registration number 241-438.
- e. Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

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BAS 711 02H

herbicide

For control of weeds on specified noncrop use sites 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-xxx

EPA Est. No.

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

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.)

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

JUN - 2 2009

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

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

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

241-438

Net Contents:

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.
HOT LINE NUMBER	
<p>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).</p>	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed, causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical 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, fiberglass, 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 leaflet label. Keep containers closed to avoid spills and contamination.

BAS 711 02H may be applied using helicopters, 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.

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.

Storage and Disposal *(continued)*

CONTAINER DISPOSAL *(continued)*

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. **DO NOT** reuse the container for any other purpose. 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 Spill

In case of large-scale spillage regarding this product, call:
CHEMTREC 1-800-424-9300
BASF Corporation 1-800-832-HELP (4357)

General Information

BAS 711 02H is an aqueous solution containing surfactant. It is mixed in water and applied 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.

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 make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams, rivers, and canals.

BAS 711 02H is also recommended for control of undesirable vegetation along forest roads, nonirrigation ditch-banks, and 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 Treatments**.

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.

Spray Drift Requirements

Aerial Applications

- 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 Applications

- 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.

Mixing and Application Instructions

Broadcast Applications

Helicopter Spray Equipment. Thoroughly mix the specified amount of **BAS 711 02H herbicide** 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** make applications 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: DO NOT make applications by fixed-wing aircraft. 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. If desired, 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 it 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 though the herbicide is directed to clumps and spots within an acre and not broadcast, **DO NOT** exceed 2 gallons of **BAS 711 02H** per acre.

Site Preparation Treatments

Use **BAS 711 02H** at a rate of 1 gallon of product per acre to control listed grasses, 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*)
- Shortleaf pine (*Pinus echinata*)
- Loblolly X Pitch hybrid
- Virginia pine (*Pinus virginiana*)
- Longleaf pine (*Pinus palustris*)
- Slash pine (*Pinus elliottii*)

Within 4 to 6 weeks of treatment, herbaceous weeds including grasses 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** per acre in 5 to 30 gallons total spray solution for helicopter applications or 5 to 60 gallons total spray solution for mechanical ground-spray and backpack applications. Use higher spray volumes when controlling particularly dense or multilayered canopies of hardwood stands or difficult to control species.

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 listed below. Use **BAS 711 02H** only in accordance with the instructions, restrictions, and directions on this label.

Annual and Perennial Grasses Controlled

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>)	

Annual and Perennial Broadleaf Weeds Controlled

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

Weeds Controlled (continued)

Vines and Brambles Controlled

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 Controlled

Alder (<i>Alnus</i> spp.)	Cypress (<i>Taxodium</i> spp.)	Red maple (<i>Acer rubrum</i>)
American beech (<i>Fagus grandifolia</i>)	Dogwood (<i>Cornus</i> spp.)	Saltcedar (<i>Tamarix pentandra</i>)
Ash (<i>Fraxinus</i> spp.)	Eucalyptus (<i>Eucalyptus</i> spp.)	Sassafras (<i>Sassafras albidum</i>)
Aspen (<i>Populus</i> spp.)	Hawthorn (<i>Crataegus</i> spp.)	Sourwood (<i>Oxydendrum arboreum</i>) ¹
Autumn olive (<i>Elaeagnus umbellata</i>)	Hickory (<i>Carya</i> spp.) ¹	Sumac (<i>Rhus</i> spp.)
Bald cypress (<i>Taxodium distichum</i>)	Huckleberry (<i>Gaylussacia</i> spp.)	Sweetgum (<i>Liquidambar styraciflua</i>)
Bigleaf maple (<i>Acer macrophyllum</i>)	<i>Lyonia</i> spp. including: Fetterbush (<i>Lyonia lucida</i>) Staggerbush (<i>Lyonia mariana</i>)	Sycamore (<i>Platanus occidentalis</i>)
Birch (<i>Betula</i> spp.)	Madrone (<i>Arbutus menziesii</i>)	Tanoak (<i>Lithocarpus densiflorus</i>)
Black oak (<i>Quercus kelloggii</i>)	Maple (<i>Acer</i> spp.)	Titi (<i>Cyrilla racemiflora</i>)
Blackgum (<i>Nyssa sylvatica</i>) ¹	Melaleuca (<i>Melaleuca quinquenervia</i>)	Tree of heaven (<i>Ailanthus altissima</i>)
Boxelder (<i>Acer negundo</i>)	Mulberry (<i>Morus</i> spp.) ²	<i>Vaccinium</i> spp. including: Blueberry (<i>Vaccinium</i> spp.) Sparkleberry (<i>Vaccinium arboreum</i>)
Brazilian peppertree (<i>Schinus terebinthifolius</i>)	Oak (<i>Quercus</i> spp.)	Willow (<i>Salix</i> spp.)
Ceanothis (<i>Ceanothis</i> spp.)	Persimmon (<i>Diospyros virginiana</i>) ¹	Yellow-poplar (<i>Liriodendron tulipifera</i>)
Cherry (<i>Prunus</i> spp.) ¹	Poison oak (<i>Rhus diversiloba</i>)	
Chinaberry (<i>Melia azedarach</i>)	Popcorn-tree (<i>Sapium sebiferum</i>)	
Chinese tallow-tree (<i>Sapium sebiferum</i>)	Poplar (<i>Populus</i> spp.)	
Chinquapin (<i>Castanopsis chrysophylla</i>)	Privet (<i>Ligustrum vulgare</i>)	
Cottonwood (<i>Populus trichocarpa</i> and <i>Populus deltoides</i>)	Red alder (<i>Alnus rubra</i>)	

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

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