241-299 09/15/2005 1/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 15 2005

Mr. Jeffery Birk
BASF Corporation
26 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Subject: Arsenal Herbicide
EPA Registration No. 241-299
Revised labeling submitted June 27, 2005

Dear Mr. Birk:

The amended labeling referred to above is acceptable provided that you:

1. Immediately following the product name at the top of the label, add the following list of use sites: "For control of vegetation on forestry sites".

2. In the statement "Arsenal should be used only in accordance with recommendations", change "should" to "may", and change "recommendations" to "recommendations and restrictions".

3. Add the statement "see use directions for STUMP AND CUT STEM TREATMENTS, HERBACEOUS WEED CONTROL, and USE ARSENAL HERBICIDE APPLICATORS CONCENTRATE FOR SPOT TREATMENT OF UNDESIRABLE HARDWOOD VEGETATION" immediately after the following statement to more clearly state the use directions for this use:

"Arsenal herbicide Applicators Concentrate is also recommended for the control of undesirable vegetation along non-irrigation ditchbanks and for the

establishment and maintenance of wildlife openings, except in the state of California."

4. In the AGRICULTURAL USE REQUIREMENTS box, add the following statement at the end of the first paragraph:

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.

5. Add a NON-AGRICULTURAL USE REQUIREMENTS box.

6. Submit one copy of your final labeling before you release your product for shipment.

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

This labeling supercedes all previously accepted labeling for this product (except supplemental labeling). A stamped copy of the label is enclosed for your records.

If you have any questions about this letter, you may call Tobi Colvin-Snyder at 703-305-7801.

Sincerely,

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

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ARSENAL®

herbicide

APPLICATORSCONCENTRATE

ACTIVEINGREDIENT:

Isopropylaminesaltoflmazapyr(2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylicacid)*.....53.1%

INERTINGREDIENT 46.9%

TOTAL..... .....100.0%

*Equivalentto43.3%2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 *H*-imidazol-2-yl]-3-pyridinecarboxylicacidor4poundsacidpergallon.

EPA Reg. No.241-299 **EPAEst.No.**

U.S.PatentNo.4,798,619

KEEPOUTOFREACHOFCHILDREN

CAUTION!/¡PRECAUCIÓN!

Siustednoentiendelaetiqueta,busqueaalguienparaqueselaexpliqueaustedendetalle.
(Ifyoudonotunderstandthislabel,findsomeonetoexplainittoyouindetail.)

Seeadditional **FirstAid,PrecautionaryStatements** and **DirectionsforUse** and **ConditionsofSaleandWarranty**

BASFCorporation
AgriculturalProducts
26DavisDrive
ResearchTrianglePark,NC 27709

ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP 15 2005
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.
241-299

BASF
The Chemical Company

FIRSTAID	
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment and advice.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment and advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment and 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

CAUTION!

Harmful if inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:
- long-sleeved shirt and long pants
- shoes plus socks

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

USERS SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, **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 wash waters or rinsate. This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Arsenal® herbicide Applicators Concentrate** should be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store, or apply **Arsenal herbicide Applicators Concentrate** or spray solutions of **Arsenal herbicide Applicators Concentrate** 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.

Arsenal herbicide Applicators Concentrate should be used only in accordance with recommendations on the booklet label. Keep containers closed to avoid spills and contamination.

Arsenal herbicide Applicators Concentrate may be applied using helicopters, ground operated sprayers, low-volume hand-operated spray equipment such as back-pack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the package labels of products used in combination with **Arsenal herbicide Applicators Concentrate** .

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.

(Continued)

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AGRICULTURALUSEREQUIREMENTS *(continued)*

DONOT enterorallowworkerentryintotreated areasduringtherestrictedentryinterval(REI)of **12hours** .

PPErequiredforearlyentrytotreatedareasthat ispermittedundertheWorkerProtection Standardandthatinvolvescontactwithanything thathasbeentreated,suchasplants,soil,or water,is:

- coveralls
- shoesplussocks

STORAGEANDDISPOSAL

DONOT contaminatewater,food,orfeedbystorage ordisposal.

PESTICIDESTORAGE : **DONOT** storebelow10°F.

PESTICIDEDISPOSAL : Wastesresultingfromthe useofthisproductmaybedisposedofonsiteorat anapprovedwastedisposalfacility.

CONTAINERDISPOSAL : **FORQUART,1.0GALLON,2.5GALLON,15GALLONAND30GALLON,**Triplerinse(orequivalent).Thenofferfor recyclingorreconditioning,orpunctureanddisposeofinanapprovedsanitarylandfill,orincineration,or,ifallowedbystateandlocalauthorities,by burning.Ifburned,stayoutofsmoke.

CONTAINERDISPOSALFORFIELDKEG, MINIBULKANDBULK: Whenthiscontaineris empty,replacethecapandsealallopeningsthat havebeenopenedduringuse,andreturnthecontainertothepointofpurchase,ortoadesignated location.Thiscontainermustonlyberefilledwith thepesticideproduct. **DONOT** reusethecontainer foranyotherpurpose.Priortorefilling,inspect carefullyfordamagesuchascracks,punctures, abrasions,wornoutthreadsandclosuredevices. Checkforleaksafterrefillingandbeforetransport. **DONOT** transportifthiscontainerisdamagedor leaking.Ifthecontainerisdamagedorleaking,or obsoleteandnotreturnedtothepointofpurchase ortoadesignatedlocation,triplerinseemptied containerandofferforrecycling.Disposalofcontainermustbeincompliancewithstateandlocal regulations.

IMPORTANT

DONOT useonfoodorfeedcrops. **DONOT** use onChristmastrees. **DONOT** treatirrigationditches,orwaterusedforcropirrigationorfordomestic uses.Keepfromcontactwithfertilizers,insecticides,fungicides,andseedstopreventunintentionalexposureofdesirablevegetationto **Arsenal® herbicideApplicatorsConcentrate** . **DONOT** applyordrainorflushequipmentonornearsensitivedesirableplants,oronareaswheretheirroots mayextend,orinlocationswherethechemical maybewashedormovedintocontactwiththeir roots. **DONOT** sidetrimdesirablevegetationwith thisproduct.Preventdriftofspraytodesirable plants.

Cleanapplicationequipmentafterusingthisproduct bythoroughlyflushingwithwater.

GENERALINFORMATION

Arsenal herbicide ApplicatorsConcentrate isa surfactant-freeaqueoussolutiontobemixedin waterandgenerallyappliedasapost-emergent sprayforcontrolofmostannualandperennial grasses,broadleafweeds,vinesandbrambles,and hardwoodbrushandtreesforforestrysitepreparationandreleaseofconifersfromwoodyandherbaceouscompetition. **Arsenal herbicide Applicators Concentrate** maybeusedforselectivewoodyand herbaceousweedcontrolinnaturalregenerationof certainconifers(seepinerelease). **Arsenal herbicide ApplicatorsConcentrate** mayalsobemixed inwaterandusedforstumpandcut-stemtreatmentforcontrolofunwantedwoodyvegetation. **Arsenal herbicide ApplicatorsConcentrate** maybe appliedtocontrolundesirablewoodyvegetation alongforestroadsthatarecontiguouswiththe treatedforestryarea.

Arsenal herbicide ApplicatorsConcentrate isalso recommendedforthecontrolofundesirablevegetationalongnon-irrigationditchbanksandforthe establishmentandmaintenanceofwildlifeopenings,exceptinthestateofCalifornia.

Arsenal herbicide ApplicatorsConcentrate maybe appliedonforestrysitesthatcontainareasoftemporarysurfacewatercausedbythecollectionof waterbetweenplantingbeds,inequipmentruts,or inotherdepressionscreatedbyforestmanagement activities,exceptinthestatesofCaliforniaand NewYork.Itispermissibletotreatdrainageditches,intermittentdrainage,intermittentlyfloodedlow lyingsites,seasonallydryfloodplains,andtransitionalareasbetweenuplandandlowlandsites whennowaterispresent,exceptinthestatesof CaliforniaandNewYork.Onlytheedgeofdrainage ditchescanbetreatedfordrainageditchesthat containwater.Itisalsopermissibletotreatmarshes,swamps,andbogsafterwaterhasreceded,as wellasseasonallydryflooddeltas,exceptinthe statesofCaliforniaandNewYork. **DONOT** make applicationstonaturalorman-madebodiesof watersuchaslakes,reservoirs,ponds,streams, riversandcanals.

SYMPTOMOLOGY:

Arsenal herbicide ApplicatorsConcentrate isreadilyabsorbedthroughfoliageandrootsandis translocatedrapidlythroughouttheplant,with accumulationinthemeristematicregions.Treated plantsstopgrowingsoonaftersprayapplication. Chlorosisfirstappearsintheyoungestleaftissue. Inperennials,theherbicideistranslocatedintothe roots,thuspreventingmostre-sprouting.Chlorosis andtissuenecrosismaynotbeapparentinsome plantspeciesforseveralweeksafterapplication. Woodyplants,brush,andtreesnormally **DONOT**

displaythefullextentofherbicidecontroluntilsev-eralmonthsfollowingapplication.

MIXINGANDAPPLICATIONINSTRUCTIONS

MANAGINGOFF-TARGETMOVEMENT

Thefollowinginformationisprovidedasgeneralguid-anceformanagingoff-targetmovement.Specificuse recommendationsfor **Arsenal® herbicide ApplicatorsConcentrate** maydifferdependingon theapplicationtechniqueusedandthevegetation managementobjective.

SprayDrift: Avoidingspraydriftattheapplication siteistheresponsibilityoftheapplicator.Theinterac-tionofmanyequipment-and-weather-relatedfactors determinethepotentialforspraydrift.Theapplicator andthegrowerareresponsibleforconsideringall thesefactorswhenmakingdecisions.

Spraydriftfromapplyingthisproductmayresultin damagetosensitiveplantsadjacenttothetreatment area.Onlyapplythisproductwhenthepotentialfor drifttotheseandotheradjacentsensitiveareas(e.g. residentialareas,bodiesofwater,knownhabitatfor threatenedorendangeredspecies,ornon-target crops)isminimal. **DONOT** applywhenthefollowing conditionsexistthatincreasethelikelihoodofspray driftfromintendedtargets:highorgustywinds,high temperatures,lowhumidity,temperatureinversions.

Tominimizespraydrift,theapplicatorshouldbefamil-iarwithandtakeintoaccountthefollowingdriftreduc-tionadvisoryinformation.Additionalinformationmay beavailablefromstateenforcementagenciesorthe CooperativeExtensionontheapplicationofthisprod-uct.

Thebestdriftmanagementstrategyandmosteffective waytoreducedriftpotentialaretoapplylargedroplets thatprovidesufficientcoverageandcontrol.Applying largerdropletsreducesdriftpotential,butwillnotpre-ventdriftifapplicationsaremadeimproperly,orunder unfavorableenvironmentalconditions(seeWind, TemperatureandHumidityandTemperature Inversions).

ControllingDropletSize:

- **Volume-** Usehighflowratenozzlestoapplythe highestpracticalsprayvolume.Nozzleswithhigher ratedflowsproducelargerdroplets.
- **Pressure-DONOT** exceedthenozzlemanufactur-er'srecommendedpressures.Formanynozzle types,lowerpressureproduceslargerdroplets. Whenhigherflowratesareneeded,usehigherflow ratenozzlesinsteadofincreasingpressure.
- **NumberofNozzles-** Usetheminimumnumberof nozzlesthatprovideuniformcoverage.
- **NozzleOrientation-** Orientingnozzlessothatthe sprayisreleasedparalleltotheairstreamproduces largerdropletsthanotherorientationsandisrecom-mendedpractice.Significantdeflectionfromthehor-izontalwillreducedropletsizeandincreasedrift potential.
- **NozzleType-** Useanozzletypethatisdesignedfor theintendedapplication.Withmostnozzletypes, narrowersprayanglesproducelargerdroplets. Considerusinglow-driftnozzles.Solidstreamnoz-zlesorientedstraightbackproducethelargest dropletsandthelowestdrift.**DONOT** usenozzles producingamistdropletspray.

ApplicationHeight: Makingapplicationsatthelow-estpossibleheight(aircraft,grounddrivenspray boom)thatissafeandpracticalreducesexposureof dropletstoevaporationandwind.

SwathAdjustment: Whenapplicationsaremadewith acrosswind,theswathwillbedisplaceddownwind. Therefore,ontheupanddownwindedgesofthefield, theapplicatormustcompensateforthisdisplacement byadjustingthepathoftheapplicationequipment (e.g.aircraft,ground)upwind.Swathadjustmentdis-tanceshouldincreasewithincreasingdriftpotential (higherwind,smallerdroplets,etc.).

Wind: Driftpotentialislowestbetweenwindspeedsof 3-10mph.However,manyfactors,includingdroplet sizeandequipmenttype,determinedriftpotentialat anygivenspeed.Applicationshouldbeavoidedbelow 3mphduetovariablewinddirectionandhighinver-sionpotential.**NOTE:** Localterraincaninfluencewind patterns.Everyapplicatorshouldbefamiliarwithlocal windpatternsandhowtheyaffectspraydrift.

TemperatureandHumidity: Whenmakingapplica-tionsinlowrelativehumidity,setupequipmenttopro-ducelargerdropletstocompensateforevaporation. Dropletevaporationismostseverewhenconditions arebothhotanddry.

TemperatureInversions: Driftpotentialishighdur-ingatemperatureinversion.Temperatureinversions restrictverticalairmixing,whichcausessmallsus-pendeddropletstoremaininaconcentratedcloud, whichcanmoveinunpredictabledirectionsduetothe lightvariablewindscommonduringinversions. Temperatureinversionsarecharacterizedbyincreas-ingtemperatureswithaltitudeandarecommonon nightswithlimitedcloudcoverandlighttonowind. Theybegintoformasthesunsetsandoftencontinue intothemorning.Theirpresencecanbeindicatedby groundfog;however,iffogisnotpresent,inversions canalsobeidentifiedbythemovementofsmokefrom agroundsourceoranaircraftsmokegenerator. Smokethatlayersandmoveslaterallyinaconcentrat-edcloud(underlowwindconditions)indicatesan inversion,whilesmokethatmovesupwardandrapidly dissipatesindicatesgoodverticalairmixing.

WindErosion: Avoidtreatingpowderydryorlight sandysoilswhenconditionsarefavorableforwind erosion.Undertheseconditions,thesoilsurface shouldfirstbesettledbyrainfallorirrigation.

AerialApplicationMethodsandEquipment: Use2 ormoregallonsofwaterperacre.Theactualminimum sprayvolumeperacreisdeterminedbythespray equipmentused.

Useadequatesprayvolumetoprovideaccurateand uniformdistributionofspraypàrticlesoverthetreated areaandtoavoidspraydrift.

Managingspraydriftfromaerialapplications: Applicatorsmustfollowtheserequirementstoavoid off-targetdriftmovement:1)boomlength-thedistanceoftheoutermostnozzlesontheboommustnot exceed¾thelengthofthewingspanorrotor,2)nozzleorientation-nozzlesmustalwayspointbackward parallelwiththeairstreamandneverbepointed downwardmorethan45degrees,and3)application height-withoutcompromisingaircraftsafety,applicationsshouldmadeataheightof10feetorlessabove thecropcanopyortallestplants.Applicatorsmustfollowthemostrestrictiveusecautionstoavoiddrifthazards,includingthosefoundinthislabelingaswellas applicablestateandlocalregulationsandordinances.

GroundApplication(Broadcast): Use5ormore gallonsofwaterperacre.Theactualminimumspray volumeperacreisdeterminedbythesprayequipment used.Useadequatesprayvolumetoprovideaccurate anduniformdistributionofsprayparticlesoverthe treatedareaandtoavoidspraydrift.

HELICOPTERSPRAYEQUIPMENT :

Thoroughlymixtherecommendedamountof **Arsenal® herbicideApplicatorsConcentrate** in5 to30gallonsofwaterperacreanduniformlyapply withproperlycalibratedaerialequipment.Asuitablenonionicsurfactantmaybeaddedtothespray solutiontoenhancecontrolofundesirablevegetation.Allprecautionsshouldbetakentominimizeor eliminatespraydrift.Applicationsshouldnotbe madeunderwindyorgustyconditions.Theuseof controlleddropletboomsandnozzleconfigurations isrecommended.Adriftcontrolagentmaybe addedattherecommendedlabelraterate.Afoam reducingagentmaybeaddedattherecommended labelrate,ifneeded.

IMPORTANT: DONOT makeapplicationsbyfixed wingaircraft.Maintainadequatebufferzones. Thoroughlycleanapplicationandmixingequipment,includinglandinggear,immediatelyafteruse. Prolongedexposureofthisproducttouncoated steel(exceptstainlesssteel)surfacesmayresultin corrosionandfailureoftheexposedpart.

GROUNDOPERATEDSPRAYEQUIPMENT: :

Thoroughlymixandapplytherecommended amountof **ArsenalherbicideApplicators Concentrate** in5to100gallonsofwaterperacre. Asuitablenonionicsurfactantmaybeaddedtothe spraysolutiontoenhancecontrolofundesirable vegetation.Adriftcontrolagentandafoamreducingagentmaybeaddedattherecommendedlabel rates,ifneeded.Ifdesired,aspraypatternindicatormaybeaddedattherecommendedlabelrate.

Forbestresults,uniformlycoverthefoliageofthe vegetationtobecontrolledwiththespraysolution.

IMPORTANT: DONOT sprayunderwindyorgusty conditions.Maintainadequatebufferzones.Clean applicationandmixingequipmentafterusingthis productbythoroughlyflushingwithwater.

DIRECTEDFOLIARORSPOTSPRAYEQUIPMENT :

Whenmakingdirectedorspotsprayapplications withhelicopterorgroundsprayequipment,orlowvolumehand-operatedsprayequipment,thoroughlymixasolutionof1to5percentbyvolumeof **Arsenal herbicide ApplicatorsConcentrate** anda minimumof1/4percentbyvolumenonionicsurfactantinwater.

Tomixthespraysolution,addthevolumeof **Arsenal herbicide ApplicatorsConcentrate** and nonionicsurfactantindicatedinthetablebelowto thedesiredamountofwater.

SPRAYSOLUTIONMIXINGGUIDE

SOLUTION VOLUME	Arsenal herbicide ApplicatorsConcentrate (%)			SURFACTANT
	1	2.5	5	
1gallon	1-1/3oz	3-1/3oz	6-2/3oz	1/3oz
5gallons	6-2/3oz	1pint	2pints	1-2/3oz
10gallons	13-1/3oz	2pints	4pints	3-1/3oz
25gallons	2pints	5pints	10pints	8oz
100gallons	1gallon	2.5gallons	5gallons	2pints

2tablespoons=1fluidounce

Forbestresults,uniformlycoverthefoliageofthe vegetationtobecontrolledwiththespraysolution. Avoidmakingapplicationsdirectlytodesirable conifers.Forlowvolumedirectedapplicationson bigleafmaplea2.5%byvolumespraysolutionis recommended.

IMPORTANT:DONOT overapplycausingrunoff fromthetreatedfoliage.Avoiddirectapplicationto desiredplantspeciesasinjurymayoccur. **DONOT** exceedrecommendeddosagerateperacre.

STUMPANDCUTSTEMTREATMENTS

Arsenal herbicide ApplicatorsConcentrate maybe usedtocontrolundesirablewoodyvegetationin forestmanagementbyapplyingasolutionofthe herbicideinwatertothecambiumareaoffreshlycutstumpsurfacesortocutsonthestemofthe targetwoodyvegetation.Applicationscanbemade atanytimeoftheyearexceptduringperiodsof heavysapflowinthespring.Treeinjectionandcut stemtreatmentsaremosteffectiveinlatesummer andearlyfall.

MIXING

Arsenal herbicide ApplicatorsConcentrate maybe mixedaseitheraconcentratedordilutesolutionfor stumpandcutstemtreatments.Thedilutesolution maybeusedforapplicationstothesurfaceofthe stumportocutsonthestemofthetargetwoody vegetation.Concentratedsolutionsmaybeused forapplicationstocutsonthestem.Useofthe concentratedsolutionpermitsapplicationtofewer cutsonthestem,especiallyforlargediameter trees.

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MIXING(***continued)***

Followtheapplicationinstructionstodetermine properapplicationtechniquesforeachtypeofsolution.

APPLICATIONWITHDILUTESOLUTIONS

Toprepareadilutesolution,mix6fluidouncesof **Arsenal® herbicideApplicatorsConcentrate** with onegallonofwater.

Forcutstumptreatments: Sprayorbrushthe solutionontothecambiumareaofthefreshlycut stumpsurface.Insurethatthesolutionthoroughly wetstheentirecambiumarea(thewoodnexttothe barkofthestump).

Fortreeinjectiontreatments: Usingstandard injectionequipment,apply1milliliterofsolutionat eachinjectionsitearoundthetreewithnomore thanoneinchintervalsbetweencutedges.Insure thattheinjectorcompletelypenetratesthebarkat eachinjectionsite.

Forfrillorgirdletreatments: Usingahatchet, machete,orsimilardevice,makecutsthroughthe barkatintervalsaroundthetreewithnomorethan twoinchintervalsbetweencutedges.Sprayor brushthesolutionintoeachcutuntilthoroughly wet.

APPLICATIONWITHCONCENTRATEDSOLUTIONS

Toprepareaconcentratedsolution,useundiluted productormixwithupto75%water,byvolume.

Fortreeinjectiontreatments: Usingstandard injectionequipment,apply1milliliterofsolutionat eachinjectionsite.Makeatleastoneinjectioncut foreverythreeinchesofdiameteratbreastheight (dbh)onthetargettree.Forexample,athree-inch dbhtreewillreceive1injectioncutandasix-inch dbhtreewillreceive2injectioncuts.Ontrees requiringmorethanoneinjectionsite,placethe injectioncutsatapproximatelyequalintervals aroundthetree.

Forhackandsquirttreatments: Usingahatchet, orsimilardevice,makecutsatadownwardangle completelythroughthebarkandcambiumat approximatelyequalintervalsaroundthetree.Make atleastonecutforeverythreeinchesofdiameter atbreastheight(dbh)onthetargettree.Forexample,athree-inchdbhtreewillreceive1cutanda six-inchdbhtreewillreceive2cuts.Usingasquirt bottle,syringe,orsimilardeviceapply1milliliterof theconcentratedmixintoeachcut,ensuringthat thesolutiondoesnotrunoutofthecut.

NOTE: Injurymayoccurtonon-targetordesirable woodyplantsiftheyextendfromthesame rootsystemortheirrootsystemsaregraft-edtothoseofthetreatedtree.

SITEPREPARATIONTREATMENTS

ArsenalherbicideApplicatorsConcentrate may beusedtocontrollabeledgrasses,broadleaf weeds,vinesandbrambles,andwoodybrushand treesonforestsitesinadvanceofregenerationfor thefollowingconifercropspecies:

CropSpecies	Rate(oz/A)
LoblollyPine *(Pinustaeda)*	24-40
LoblollyXPitchHybrid	24-40
LongleafPine *(Pinuspalustris)*	24-40
ShortleafPine *(Pinusechinata)*	24-40
VirginiaPine *(Pinusvirginiana)*	24-40
SlashPine *(Pinuselliottii)*	20-32
Douglas-Fir *(Pseudotsugamenziesii)*	12-24
CoastalRedwood *(Sequoiasempervirens)*	12-24
WesternHemlock *(Tsugaheterophylla)*	12-24
CaliforniaRedFir *(Abiesmagnifica)*	12-20
CaliforniaWhiteFir *(Abiesconcolor)*	12-20
JackPine *(Pinusbanksiana)*	12-16
LodgepolePine *(Pinuscontorta)*	12-16
PitchPine *(Pinusrigida)*	12-16
PonderosaPine *(Pinusponderosa)*	12-16
SugarPine *(Pinuslambertiana)*	12-16
WhitePine *(Pinusstrobus)*	12-16
BlackSpruce *(Piceamariana)*	12-16
RedSpruce *(Picearubens)*	12-16
WhiteSpruce *(Piceaglauca)*	12-16

Usetherecommendedrateof **Arsenalherbicide ApplicatorsConcentrate** peracreappliedasa broadcastfoliarsprayforlong-termcontrolof labeledwoodyplantsandresidualcontrolofherbaceousweeds.Within4to6weeksoftreatment, grassesandotherherbaceousweedswillbecontrolledandmayprovidefueltofacilitateasite preparationburn,ifdesired,tocontrolconifersor otherspeciestoleranttotheherbicide.

Applytherecommendedrateof **Arsenalherbicide ApplicatorsConcentrate** peracrein5to30gallonstotalspraysolutionforhelicopterapplications or5to100gallonstotalspraysolutionformechanicalgroundsprayandbackpackapplications.Usea minimumof1/2percentbyvolumenonionicsurfactant.Usethehigherlabelratesof **ArsenalherbicideApplicatorsConcentrate** andhigherspray volumeswhencontrollingparticularlydenseor multi-layeredcanopiesofhardwoodstands,ordifficulttocontrolspecies.

Tankmixesmaybenecessaryforchemicalcontrol ofconifersandotherspeciestolerantto **Arsenal herbicideApplicatorsConcentrate** incertain cases.Observeallprecautionsandrestrictionson theproductlabels.Alwaysfollowthemostrestrictivelabel.Combinationswithotherproducts labeledforforestsitepreparationmaykillcertain plantssuchaslegumesandblackberrywhichare desirableforwildlifehabitat.

Wherequickinitialbrownout(deadeningoffoliage) isdesiredforburning,applyatankmixtureof16to 32oz **Arsenal® herbicideApplicators Concentrate** with16to64ozglyphosateor16to 48oztriclopyresterperacre.

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For control of seedling pines, apply 16 to 32 oz **Arsenal herbicide Applicators Concentrate** with 3 to 4 quarts glyphosate. For site preparation, rates less than 24 oz **Arsenal herbicide Applicators Concentrate** will provide suppression of hardwood brush and trees, and some re-sprouting may occur.

DO NOT plant seedlings of black spruce (*Picea mariana*) or white spruce (*Picea glauca*) on sites that have been broadcast treated with **Arsenal herbicide Applicators Concentrate** or into the treated zone of spot or banded applications for three months following application or injury may occur.

HERBACEOUS WEED CONTROL

Use **Arsenal herbicide Applicators Concentrate** for selective weeding in the following conifers:

Crop Species	Rate (fl.oz/A)
Loblolly Pine (*Pinus taeda*)	6-10
Loblolly X Pitch Hybrid	6-10
Virginia Pine (*Pinus virginiana*)	6-10
Longleaf Pine (*Pinus palustris*) [1]	4-6
Slash Pine (*Pinus elliottii*) [1]	4-6
Douglas-Fir (*Pseudotsuga menziesii*) [1]	4-6

[1] Use of surfactant is not recommended.

Arsenal herbicide Applicators Concentrate may be applied as a broadcast treatment, banded over tree rows, or as a directed spray for release of young conifers from herbaceous weeds. To prevent possibility of conifer injury, **DO NOT** apply **Arsenal herbicide Applicators Concentrate** when conifers are under stress from drought, diseases, animal or winter injury, planting shock, or other stresses reducing conifer vigor. Broadcast applications may be made by helicopter, ground, or backpack sprayer. For difficult to control weeds, use the higher labeled rates. Where herbaceous weeds have overtopped conifer seedlings, a nonionic surfactant may be added to improve weed control (except for slash pine, long-leaf pine, and Douglas-fir), at a rate not to exceed 1/4 percent of spray solution volume. Some minor conifer growth inhibition may be observed when herbaceous weed control treatments are made during periods of active conifer growth.

Arsenal herbicide Applicators Concentrate may also be applied using backpack or hand-held sprayers to control herbaceous weeds around individual conifer seedlings. Mix 0.4 to 0.6 oz **Arsenal herbicide Applicators Concentrate** and 0.2 oz nonionic surfactant per gallon of water. Direct the spray to the weeds and minimize the amount applied to conifer foliage for best conifer tolerance. Ensure that maximum labeled rates per acre listed for crop species above are not exceeded.

Arsenal herbicide Applicators Concentrate may be tank mixed with Sulfometuron Max® to broaden the spectrum of weeds controlled. For loblolly pine, apply 4 to 6 oz **Arsenal herbicide Applicators Concentrate** plus 1-2 oz Sulfometuron Max (product) per acre. The application of **Arsenal herbicide Applicators Concentrate** plus Sulfometuron Max on other conifer species may cause growth suppression.

CONIFER RELEASE TREATMENTS

Arsenal herbicide Applicators Concentrate may be applied as a broadcast or directed spray application for suppression of labeled brush, tree, and herbaceous weed species. Directed spray applications may be made with low-volume applications in conifer stands of all ages by targeting the unwanted vegetation and avoiding direct application to the conifer. Ensure that maximum labeled rates per acre listed for crop species below are not exceeded.

Use broadcast applications of Arsenal herbicide Applicators Concentrate for release of the following conifers from hardwood competition:

Crop Species	Rate (fl.oz/Acre)
Loblolly Pine (*Pinus taeda*) [3]	12-20
Loblolly X Pitch Hybrid [3]	12-20
Virginia Pine (*Pinus virginiana*) [3]	12-20
Longleaf Pine (*Pinus palustris*)	12-16
Pitch Pine (*Pinus rigida*)	12-16
Shortleaf Pine (*Pinus echinata*)	12-16
Slash Pine (*Pinus elliottii*)	12-16
White Pine (*Pinus strobus*) [1]	8-16
California Red Fir (*Abies magnifica*)	8-12
California White Fir (*Abies concolor*)	8-12
Lodgepole Pine (*Pinus contorta*) [2]	8-12
Douglas-Fir (*Pseudotsuga menziesii*) [2]	8-12
Jack Pine (*Pinus banksiana*) [2]	6-12
Black Spruce (*Picea mariana*) [2]	6-12
Red Spruce (*Picea rubens*) [2]	6-12
White Spruce (*Picea glauca*) [2]	6-12

[1] **DO NOT** make applications to white pine stands younger than three years old. To minimize potential white pine injury, release treatments should not be made prior to July 15.

[2] Applications should be made after formation of final conifer resting buds in the fall or height growth inhibition may occur.

[3] Mid-rotation release: For broadcast applications below the pine canopy in established stands of loblolly pine, loblolly X pitch hybrid, and Virginia pine, use 16-32 oz product per acre. For mid-rotation release of other species use rates listed above.

For slash pine and longleaf pine, broadcast release treatments over the top of pines for the purpose of woody plant control must be made after August 15 and only in stands 2 through 5 years old. For applications over the top of slash pine and longleaf pine, DO NOT add surfactant and use lower labeled rates on sandy soils.

Apply the recommended rate of **Arsenal® herbicide Applicators Concentrate** per acre when making broadcast applications with helicopter or ground spray equipment. Refer to mixing and application instructions for proper spray volumes. A nonionic surfactant may be added at no more than 1/4 percent by volume.

Usethehigherlabelratesof **Arsenalherbicide ApplicatorsConcentrate** whencontrollingparticularlydensestandsordifficulttocontrolspecies.

Someminorconifergrowthinhibitionmaybe observedwhenreleasetreatmentsaremadeduring periodsofactiveconifergrowth.Tominimize potentialconiferheightgrowthinhibition, **DONOT** makebroadcastapplicationstoconiferstands, exceptloblollypine,beforetheendofthesecond growingseason.Tominimizepotentialconifer heightgrowthinhibition,broadcastreleasetreatmentsmaybemadelateinthegrowingseason.To preventpossibilityofconiferinjury, **DONOT** apply **ArsenalherbicideApplicatorsConcentrate** when conifersareunderstressfromdrought,diseases, animalorwinterinjury,orotherstressesreducing conifervigor.

ArsenalherbicideApplicatorsConcentrate may beusedtoreleaseloblollypineseedlingsduringthe firstgrowingseasonfollowingplantingorforone-year-oldnaturalloblollypineregeneration.Forone-year-oldloblollypinerelease,apply12-20oz/A **ArsenalherbicideApplicatorsConcentrate** after July15.Theuseofratesbelow16oz/Aisintended forhardwoodgrowthsuppressionandsomehardwoodre-sproutingshouldbeexpected.

USEARSENALHERBICIDE APPLICATORSCONCENTRATEFOR SPOTTREATMENTOFUNDESIRABLE HARDWOODVEGETATION :

ArsenalherbicideApplicatorsConcentrate may beusedasadirectedfoliarorcutstemapplication tocontrolundesirablebrushandhardwoodsinthe managementofstandsofallagesfortheconifer specieslistedinthebroadcastapplicationsection above.Refertomixingandapplicationinstructions inthedirectedfoliarorcutstemsectionsabovefor properuserates,equipment,andapplicationtechniques.Ensurethatthemaximumlabeledratesper acrelistedforcropspeciesarenotexceeded.Cut stemapplicationsmaybeusedforspottreatment ofundesirablehardwoodsinPonderosapine standsusing12ozorlessofproductperacre.

Avoiddirectapplicationtodesiredplantspeciesas injurymayoccur.Injurymayoccurtonon-targetor desirablehardwoodsorconifersiftheyextendfrom thesamerootsystemortheirrootsystemsare graftedtothoseofthetreatedtreeoriftheirroots extendintothetreatedzone.

LATEROTATIONVEGETATIONCONTROLINWESTERNCONIFERS

InCalifornia,thePacificNorthwestandInland Northwest,broadcastaerialapplicationsof**Arsenal herbicideApplicatorsConcentrate**upto24oz/A arepermissibleinconiferstandsthataretargetedfor harvestingtheyearfollowingtreatment.Useminimum sprayvolumeof15gallonsperacre.Significantconifer injuryormortalitymustbeexpected. **DO NOT** usethis treatmentifconiferinjuryormortalitycannotbetolerated.

BAGANDSPRAYAPPLICATIONSFOR CONIFERRELEASE

InDouglas-firandPonderosapinestands,broadcast applicationsof**ArsenalherbicideApplicators Concentrate** upto16oz/Aarepermissiblewhenthe treesarecoveredbybagspriortotheapplication.The bagsmustpreventthespraymixfromcontactingthe coniferfoliage.Onsiteswithcoarsetexturedsoils(e.g. decomposedgranite,pumice,sandyorrockysites)or lowlevelsofsoilorganicmatter(generally5%orless) significantconifergrowthinhibitionandmortalityis possible. **DO NOT** usethistreatmentonthesetypes ofsitesifconifergrowthinhibitionandmortalitycannot betolerated.

WEEDSCONTROLLED

Arsenal® herbicideApplicatorsConcentrate willprovidepost-emergencecontrolandsomeresidualcontrol ofthefollowingtargetvegetationspecies.Degreeofcontrolisbothspeciesandratedependent. **Arsenal herbicide ApplicatorsConcentrate** shouldbeusedonlyinaccordancewiththerecommendationsonthis label.

GRASSES

Thespeciesofannualandperennialgrassescontrolledby **Arsenal herbicideApplicators Concentrate** includethefollowing:

Annualbluegrass *(Poaannua)*
Bahiagrass *(Paspalumnotatum)*
Barnyardgrass *(Echinochloacrus-galli)*
Beardgrass *(Andropogon* spp.*)*
Bermudagrass *(Cynodondactylon)* [1]
Bigbluestem *(Andropogongerardii)*
Broadleafsignalgrass *(Brachiaria platyphylla)*
Canadabluegrass *(Poacompressa)*
Cattail *(Typha* spp.*)*
Cheat *(Bromussecalinus)*
Cogongrass *(Imperatacylindrica)* [2]
Crabgrass *(Digitaria* spp.*)*
Crowfootgrass *(Dactyloctenium aegyptium)*
Dallisgrass *(Paspalumdilatatum)*
Downybrome*(Bromustectorum)*
Fallpanicum *(Panicumdichotomiflorum)*
Feathertop *(Pennisetumvillosum)*
Fescue *(Festuca* spp.*)*
Foxtail *(Setaria* spp.*)*
Giantreed *(Arundodonax)*
Goosegrass *(Eleusineindica)*
Guineagrass *(Panicummaximum)*
Italianryegrass *(Loliummultiflorum)*
Itchgrass *(Rottboelliaexaltata)*
Johnsongrass *(Sorghumhalepense)* [1]
Junglerice *(Echinochloacolonum)*
Kentuckybluegrass*(Poapratensis)*
Lovegrass *(Eragrostis* spp.*)*[1]
Orchardgrass*(Dactylisglomerata)*
Panicum spp
Paragrass *(Brachiariamutica)*
Phragmites *(Phragmitesaustralis)*
Prairiecordgrass*(Spartinapectinata)*
Prairiethreeawn*(Aristidaoligantha)*
Quackgrass *(Agropyronrepens)*
Reedcanarygrass*(Phalarisarundinacea)*
Saltgrass *(Distichlisstricta)*
Sanddropseed*(Sporoboluscryptandrus)*
Sandbur *(Cenchrus* spp.*)*
Smoothbrome*(Bromusinermis)*
Sprangletop *(Leptochloa* spp.*)*
Timothy *(Phleumpratense)*
Torpedograss *(Panicumrepens)*
Vaseygrass *(Paspalumurvillei)*
Wildbarley*(Hordeum* spp.*)*
Wildoats*(Avenafatua)*
Wirestemmuhly *(Muhlenbergiafrondosa)*
Witchgrass *(Panicumcapillare)*
Woollycupgrass*(Eriochloavillosa)*

[1]Usehigherlabeledrates.
[2]Useminimumof24ozperacre.

BROADLEAFWEEDS

Thespeciesofannualandperennialbroadleafweedscontrolledby **ArsenalherbicideApplicators Concentrate** includethefollowing:

Arrowwood *(Plucheasericea)*
Broomsnakeweed *(Gutierreziasarothrae)*
Bullthistle *(Cirsiumvulgare)*
Burclover *(Medicago* spp.*)*
Burdock *(Arctium* spp.*)*
Camphorweed *(Heterothecasubaxillaris)*
Canadathistle *(Cirsiumarvense)*
Carolinageranium *(Geranium carolinianum)*
Carpetweed *(Mullugoverticillata)*
Chickweed,mouseear *(Cerastium vulgatum)*
Clover *(Trifolium* spp.*)*
Cocklebur *(Xanthiumstrumarium)*
Commonchickweed*(Stellariamedia)*
Commonragweed *(Ambrosia artemisiifolia)*
Cudweed *(Gnaphalium* spp.*)*
Dandelion *(Taraxacumofficinale)*
Desertcamelthorn *(Alhagipseudalhagi)*
Diffuseknapweed *(Centaureadiffusa)*
Dock *(Rumex* spp.*)*
Dogfennel *(Eupatoriumcapillifolium)*
Fiddleneck *(Amsinckiaintermedia)*
Filaree *(Erodium* spp.*)*
Fleabane *(Erigeron* spp.*)*
Giantragweed *(Ambrosiatrifida)*
Goldenrod*(Solidago* spp.*)*
Grayrabbitbrush*(Chrysothamnus nauseosus)*
Henbit *(Lamiumaplexicaule)*
Hoaryvervain*(Verbenastricta)*
Horseweed *(Conyzacanadensis)*
Indianmustard*(Brassicajuncea)*
Japanesebamboo/knotweed *(Polygonumcuspidatum)*
Knotweed,prostrate*(Polygonum aviculare)*
Kochia *(Kochiascoparia)*
Lambsquarters *(Chenopodiumalbum)*
Littlemallow*(Malvaparviflora)*
Milkweed *(Asclepias* spp.*)*
Minerslettuce*(Montiaperfoliata)*
Mullein *(Verbascum* spp.*)*
Nettleleafgoosefoot*(Chenopodium murale)*
Oxeyedaisy *(Chrysanthemum leucanthemum)*
Pepperweed *(Lepidium* spp.*)*
Pigweed *(Amaranthus* spp.*)*
Plantain *(Plantago* spp.*)*
Pokeweed *(Phytolaccaamericana)*
Primrose *(Oenotherakunthiana)*
Puncturevine *(Tribulusterrestris)*
Purpleloosestrife*(Lythrumsalicaria)*
Purslane *(Portulaca* spp.*)*
Pusley,Florida*(Richardiascabra)*
Rocket,London *(Sisymbriumirio)*
Rushskeletonweed *(Chondrillajuncea)*
Russianknapweed *(Centaurearepens)*
Russianthistle *(Salsolakali)*
Saltbush *(Atriplex* spp.*)*
Shepherd'spurse *(Capsellabursa-pastoris)*
Silverleafnightshade*(Solanum elaeagnifolium)*
Smartweed *(Polygonum* spp.*)*
Sorrell *(Rumex* spp.*)*
Sowthistle *(Sonchus* spp.*)*
Spurge,annual*(Euphorbia* spp.*)*
Stingingnettle *(Urticadioica)*
Sunflower *(Helianthus* spp.*)*
Sweetclover *(Melilotus* spp.*)*
Tansymustard *(Descurainiapinnata)*
Texasthistle *(Cirsiumtexanum)*
Velvetleaf *(Abutilontheophrasti)*
Westernragweed*(Ambrosia psilostachya)*
Wildcarrot *(Daucuscarota)*
Wildlettuce*(Lactuca* spp.*)*
Wildparsnip *(Pastinacasativa)*
Wildturnip*(Brassicacampestris)*
Woollyleafbursage *(Ambrosiagrayi)*
Yellowstarthistle*(Centaureasolstitialis)*
Yellowwoodsorrel *(Oxalisstricta)*

WEEDSCONTROLLED

Arsenal® herbicideApplicatorsConcentrate willprovidepost-emergencecontrolandsomeresidualcontrol ofthefollowingtargetvegetationspecies.Degreeofcontrolisbothspeciesandratedependent. **Arsenalherbicide ApplicatorsConcentrate** shouldbeusedonlyinaccordancewiththerecommendationsonthis label.

VINESANDBRAMBLES

Thespeciesofvinesandbrambles controlledby **Arsenalherbicide ApplicatorsConcentrate** include thefollowing:

Fieldbindweed *(Convolvulusarvensis)*
Hedgebindweed *(Calystegiasequium)*
Honeysuckle *(Lonicera* spp.*)*[1]
Morningglory*(Ipomoea* spp.*)*
Poisonivy*(Rhusradicans)*
Redvine *(Brunnichiacirrhosa)*
Trumpetcreeper*(Campsisradicans)*
Virginiacreeper*(Parthenocissus quinquefolia)*
Wildbuckwheat*(Polygonumconvolvulus)*
Wildgrape *(Vitis* spp.*)*
Wildrose *(Rosa* spp.*)*[1]
Including: Multiflorarose *(Rosamultiflora)*
Macartneyrose *(Rosabracteata)*

[1]Usehigherlabeledrates.

WOODYBRUSHANDTREES

Thespeciesofwoodybrushand treescontrolledby **Arsenalherbicide ApplicatorsConcentrate** includethefollowing:

Alder *(Alnus* spp.*)*
Americanbeech*(Fagusgrandifolia)*
Ash *(Fraxinus* spp.*)*[1]
Aspen *(Populus* spp.*)*
Autumnolive *(Elaeagnusumbellata)*
Baldcypress *(Taxodiumdistichum)*
Bigleafmaple *(Acermacrophyllum)*
Birch*(Betula* spp.*)*[1]
Blackoak *(Quercuskelloggii)*
Blackgum *(Nyssasylvatica)* [2]
Boxelder *(Acernegundo)*
Brazilianpeppertree*(Schinus terebinthifolius)*
Ceanothis *(Ceanothis* spp.*)*
Cherry *(Prunus* spp.*)*[1,2]
Chinaberry *(Meliaazedarach*)
Chinesetallow-tree *(Sapiumsebiferum)*
Chinquapin *(Castanopsischrysophylla)*
Cottonwood *(Populustrichocarpaand Populusdeltoides)*
Cypress *(Taxodium* spp.*)*
Dogwood *(Cornus* spp.*)*[1]
Eucalyptus *(Eucalyptus* spp.*)*
Hawthorn*(Crataegus* spp.*)*
Hickory *(Carya* spp.*)*[1]
Huckleberry *(Gaylussacia* spp.*)*
Lyoniaspp
Including:Fetterbush *(Lyonialucida)*
Staggerbush *(Lyonia mariana)*
Madrone *(Arbutusmenziesii)*
Maple *(Acer* spp.*)*
Melaleuca *(Melaleucaquinquenervia)*
Mulberry *(Morus* spp.*)*[1,3]
Oak(*Quercus* spp.*)*[4]
Persimmon *(Diospyrosvirginiana)* [2]
Poisonoak*(Rhusdiversiloba)*
Popcorn-tree *(Sapiumsebiferum)*
Poplar *(Populus* spp.*)*
Privet *(Ligustrumvulgare*)
Redalder*(Alnusrubra)*
Redmaple*(Acerrubrum*)
Saltcedar *(Tamarixpentandra)*
Sassafras *(Sassafrasalbidum)*
Sourwood *(Oxydendrumarboreum)* [2]
Sumac *(Rhus* spp.*)*
Sweetgum *(Liquidambarstyraciflua*)
Sycamore*(Platanusoccidentalis)*
Tanoak*(Lithocarpusdensiflorus)* [1]
TiTi *(Cyrillaracemiflora)* [5]
Treeofheaven*(Ailanthusaltissima)*
Vaccinium spp.
Including:Blueberry*(Vaccinium* spp.*)*
Sparkleberry *(Vaccinium arboreum)*
Willow*(Salix* spp.*)*
Yellow-poplar *(Liriodendrontulipifera)* [1]

[1]Usehigherlabeledrates.
[2]Bestcontrolwithapplicationspriortoformationoffallleafcolor.
[3]Thedegreeofcontrolmaybespeciesdependent.
[4]ForWateroak*(Quercusnigra)* ,Laureloak *(Q.laurifloria)* ,Willowoak*(Q.phellos)* andLiveoak *(Q.virginiana)* usehigherlabeled rates.
[5]Suppression

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