Control of Common Pasture Weeds in Arkansas

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Bahiagrass - This recommendation is for use in established bermudagrass to control 'Pensacola' bahiagrass. In late May, apply 60 DF metsulfuron or Cimarron Plus at 0.5 to 1 oz/a plus 0.25% surfactant. Make a second application three to four weeks later. It is important to follow up the herbicide application with a fertility program to encourage the bermudagrass growth. Metsulfuron is safe on bermudagrass and has no grazing or haying restrictions. Metsulfuron also controls many broadleaf weeds and some brush species. See the Pastora label for bahiagrass control instructions.

Bitterweed – This weed is an indicator of poor soil fertility and weak, thin pastures. Spray bitterweed before it flowers. Bitterweed is readily -controlled with 2, 4-D amine at 1 to 2 pt/A applied in May or early June. Cimarron Plus, metsulfuron 60 DF, Grazon P+D, -GrazonNext and Dicamba + 2,4-D also control bitterweed.

Blackberry - Use metsulfuron 60 DF or Cimarron Plus at 1 oz/A plus 0.25% nonionic surfactant. Apply in May or June while blackberry and dewberry are actively growing. Remedy at 3 pt/A applied during or after bloom has been effective for blackberry and dewberry. Surmount at 2 qt/A is another option. Apply -Surmount after fruit drop. Do not mow during the year of application. Regardless of treatment choice, plan on making a follow-up treatment the next year to control escapes.



Brush, Mixed - Apply a mixture of 0.25% Remedy plus 1% Grazon P+D as a leaf spray to individual plants. Add 0.25% v/v nonionic surfactant. Spray between May and October while brush is actively growing.

Buckhorn Plantain - Two proven treatments for buckhorn -plantain are Grazon P+D at 1.5 qt/A or Cimarron Max at 1 qt/A + 0.25 oz/A. These products provided 90 to 100% control of buckhorn plantain. Add 0.25% nonionic surfactant to the spray mix. Apply in fall when there is a adequate moisture and the weeds are actively growing. Metsulfuron 60 DF or Cimarron Plus at 0.5 oz/A are also effective herbicides for this weed.

Bull Thistle - The key to effective thistle control is spraying while the -thistles are in the rosette stage of growth (before the flower stalk appears). Biennial thistles in Arkansas are readily controlled with a properly timed application of 2,4-D amine at 1.5 qt/A. Spring applications should be made from late February to early March. Fall applications from late October through November will enhance a thistle control program. Grazon P+D, GrazonNext and Dicamba + 2,4-D also provide excellent control of thistles at 1 qt/A.



Buttercup - Spray buttercup in late February or early March before it flowers. This weed is easily controlled with 2,4-D amine at 1 to 2 pt/A. Metsulfuron 60 DF, Cimarron Plus, Grazon P+D, GrazonNext and Dicamba + 2,4-D also control buttercup. In dormant bermudagrass, either glyphosate or paraquat will control buttercup at normal use rates.

Carpetweed - This weed can be difficult to control with growth regulator herbicides. GrazonNext at one qt/A has done a good job.

Common Ragweed - The key to effective ragweed control is spraying when the weeds are small (2 to 4 inches tall). Small ragweeds are readily controlled with 2,4-D amine at 1 qt/A. Grazon P+D, GrazonNext and Dicamba + 2,4-D also control ragweeds at 1 qt/A. Cimarron Plus and metsulfuron are not effective on ragweed.



Crabgrass - Glyphosate may be applied between cuttings to control -crabgrass in established bermudagrass hayfields. Apply 4 to 8 fl oz/A of 4 lb/gal glyphosate as soon as the hay is removed after cutting. Be warned that glyphosate should not be used in this manner unless bermudagrass stunting, yield reduction and possible stand reduction can be tolerated. Applications made after regrowth is well under way will result in increased damage to the bermudagrass. We have tested this practice many times and the amount of bermudagrass injury is unpredictable. Injury ranged from almost none up to 50% stunting.

Dallisgrass - There is a period in late fall to early winter when bermudagrass is dormant and dallisgrass remains green. During this time 10 fl oz/A of 4 lb/gal glyphosate does a good to excellent job of controlling dallisgrass with little or no bermudagrass injury. Obviously, timing and calibration are important. Once frost occurs, the bermudagrass should be checked frequently so that the application can be made as soon as it is completely dormant. If glyphosate products with higher concentrations are used, the rate should be adjusted.

Dewberry - Use metsulfuron 60 DF or Cimarron Plus at 1 oz/A plus 0.25% nonionic surfactant. Apply in May or June while blackberry and dewberry are actively growing. Remedy at 3 pt/A applied -during or after bloom has been effective for dewberry. Surmount at 2 qt/A is another option. Apply Surmount after fruit drop. Do not mow during the year of application. Regardless of treatment choice, plan on making a follow-up treatment the next year to control escapes.



Dogfennel - Spray dogfennel when it is 6 to 12 inches tall. At this height, Grazon P+D or Weedmaster at 1 qt/A will give 90 to 100% -control. Research has shown that Remedy (triclopyr) and PastureGard (triclopyr + fluroxypyr) are also highly effective for controlling dogfennel. PastureGard at 3 pt/A is the preferred treatment for dogfennel that is more than 3 feet tall.

Fescue – In bermudagrass, tall fescue can be eradicated by applying Panoramic (imazapic) at 10 fl oz/A + 32 fl oz/A glyphosate. Apply in late December or January when the bermudagrass is completely dormant. Glyphosate alone is not very effective when applied at this time of year.

Foxtail - Foxtail is a late-germinating summer grass that becomes obvious in July. One option is to apply 8 to 10 fl oz per acre of 4 lb/gal glyphosate as soon as the hay is off the field. Panoramic at 4 to 6 fl oz/A does a fair job of foxtail control if it is in the seedling stage. Add 0.25% nonionic surfactant. Control of large plants will be poor. Application timing will typically be from late May to early June. Panoramic (imazapic) will stunt bermudagrass. Damage varies, but the loss of one hay cutting is typical. Expect 30 to 45 days of bermudagrass suppression after application. Do not apply to drought-stressed bermudagrass. Do not apply during spring transition. Do not apply to newly sprigged or seeded bermudagrass.



Groundsel - Metsulfuron 60 DF or Cimarron Plus at 0.5 to 1 oz/A has proven to be the most effective herbicide for groundsel control. Apply in May. Add 0.25% nonionic surfactant. Grazon P+D at 2 to 3 qt/A provides partial control.

Hemp Dogbane - Surmount at 3 to 6 pt/A is the best treatment we have found for hemp dogbane. Apply when the weeds are 18 to 24 inches tall. Add 0.25% nonionic surfactant. In areas where picloram cannot be used, apply 2 qt/A Weedmaster + 1 oz/A metsulfuron 60 DF plus 0.25% nonionic surfactant. Or, apply metsulfuron 60 DF at 1 ounce of product per acre plus 0.25% nonionic -surfactant. -Follow up next spring to control escapes.

Henbit - Use a product that contains metsulfuron such as Cimarron Plus, Patriot, Cimarron Max, Chaparral and several others.



Honeylocust - Spray the leaves with a 1% solution of Grazon P+D. Add 0.25% nonionic surfactant. Apply after full leaf-out when conditions are favorable for plant growth. Make a follow-up application the next spring.

Honeysuckle - Metsulfuron 60 DF or Cimarron Plus at 1 oz/A provides excellent honeysuckle control. For individual plant treatment, add 1 ounce of product per 100 gallons of water and spray to wet. A 2% solution of 3 lb/ae/gal glyphosate or 4 lb/gal triclopyr, applied in the fall, also controls honeysuckle. Follow-up treatments will be needed.

Horsenettle - Grazon P+D (3 to 4 pt/A) or GrazonNext (2 pt/A) are good choices for horsenettle -control. Time herbicide applications to occur between bloom and fruit set. Complete -horsenettle control will not be achieved with a single herbicide application. Spray for three consecutive years to reach the 90 to 100% control range.



Horseweed - Spray horseweed when it is less than 12 inches tall. A properly timed application of Grazon P+D or Weedmaster at 1 qt/A will give 90 to 100% control. Metsulfuron 60 DF or Cimarron Plus at 0.5 oz/A will also provide 90 to 100% control.

Johnsongrass - Use 1.33 oz/A of Outrider with 0.25% nonionic surfactant in 10 to 40 gallons of water per acre as a broadcast application. Apply to actively growing johnsongrass that is at least 18 to 24 inches tall and up to the heading stage. Weeds to be treated should not be mowed or grazed for two weeks before or after application. Bermudagrass may be harvested after the 2-week period without any effect on Outrider performance. Weed response to Outrider is very slow. It may require up to 1 month for weeds to become brown. Tank mixing Outrider with herbicides formulated as amines (including 2,4-D) may decrease the effectiveness of Outrider on johnsongrass. For spot treatment, mix 1.33 oz/A of Outrider in 100 gallons of water with 0.25% nonionic -surfactant. Apply this as a spray to wet application. Pastora at 1.5 oz/A is effective for johnsongrass control. It will also control many broadleaf weeds. Follow the surfactant and timing outlined for Outrider.



Lanceleaf Ragweed - The key to effective ragweed control is spraying when the weeds are small (2 to 4 inches tall). Small ragweeds are readily controlled with 2,4-D amine at 1 qt/A. Grazon P+D, GrazonNext and Dicamba + 2,4-D also control ragweeds at 1 qt/A. Cimarron Plus and metsulfuron are not effective on ragweed.



Maypop - Control data is scarce for maypop. One greenhouse study indicates that Remedy or 2,4-D amine at 2 qt/A will provide good initial control. Clarity at 1 pt/A also performed well in this trial. Expect regrowth the next year.

Mayweed - This summer annual is readily controlled with herbicides. At the rate of one qt/A the following herbicides provide excellent control, Cimarron Max, , Grazon P+D, GrazonNext and Weedmaster. Chaparral at 2.5 oz /A also controls mayweed. Spray in May or early June when weeds are less than 12 inches tall.

Milk Thistle - The key to effective thistle control is spraying while the -thistles are in the rosette stage of growth (before the flower stalk appears). Biennial thistles in Arkansas are readily controlled with a properly timed application of 2,4-D amine at 1.5 qt/A. Spring applications should be made from late February to early March. Fall applications from late October through November will enhance a thistle control program. Grazon P+D, GrazonNext and Dicamba + 2,4-D also provide excellent control of thistles at 1 qt/A.



Musk Thistle - The key to effective thistle control is spraying while the -thistles are in the rosette stage of growth (before the flower stalk appears). Biennial thistles in Arkansas are readily controlled with a properly timed application of 2,4-D amine at 1.5 qt/A. Spring applications should be made from late February to early March. Fall applications from late October through November will enhance a thistle control program. Grazon P+D, GrazonNext and Dicamba + 2,4-D also provide excellent control of thistles at 1 qt/A.

Oaks - It is possible to achieve partial control of some oak species using 2,4-D alone at 2 qt/A. Improved control can be achieved by using a mixture of 1% Grazon P+D plus 0.25% -Remedy as an individual plant leaf spray. Add 0.25% nonionic surfactant. Basal bark treatments are very effective on oaks with stem diameters of 4 inches or less. Mix 1 quart -Remedy Ultra with 3 quarts diesel fuel, vegetable oil or light mineral oil and apply to the lower 18 inches of the stems with a Conejet 5500 X-1 or X-3 nozzle. -Agitate the mixture before spraying. JLB Oil Plus is a readyto-use basal oil carrier that may be used in place of diesel fuel.

Osage Orange - Apply 1% Remedy plus 0.25% surfactant as a leaf spray to individual plants. For Osage Orange with stems less than 4 inches in diameter, mix 1 quart Remedy Ultra with 3 quarts diesel fuel, vegetable oil or light mineral oil and apply to the lower 18 inches of the stems with a Conejet 5500 X-1 or X-3 nozzle. Agitate the mixture before spraying. JLB Oil Plus is a readyto-use basal oil carrier plus surfactant.



Palmetto - Apply a 4% solution of Remedy Ultra as an individual plant treatment. Add 0.25% v/v nonionic surfactant. Be patient.

Perilla mint - Grazon P+D at 1 qt/A or Weedmaster at 1 qt/A will control perilla mint. Apply in late May or early June when weeds are actively growing. Spray before the weeds are 12 inches tall. Add 0.25% nonionic surfactant to the spray mix. Bush hog large plants that have already formed flowers.

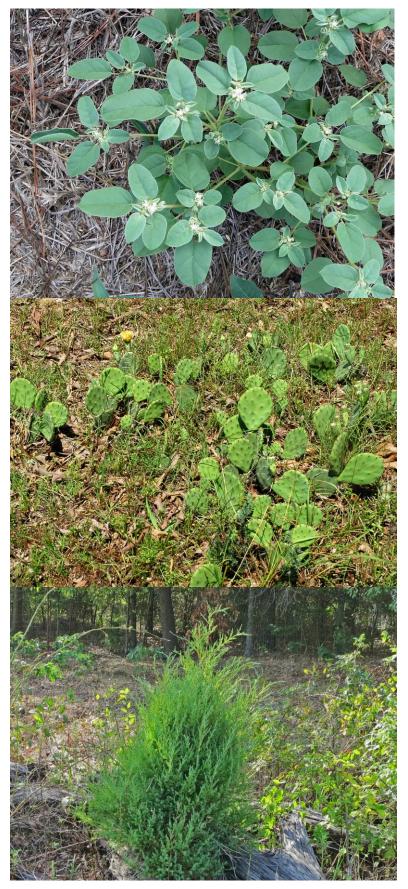
Persimmon - Persimmon is one of the more difficult brush species to control. The most effective treatment is undiluted Tordon 22K applied to the soil as a spot concentrate prior to periods of expected rainfall. Apply directly to the soil within the drip line and on the upslope side of the tree. Application to trees taller than 12 feet is not recommended. Apply 2 to 4 mls (cc's) per inch of stem diameter in spring (April-May). Use a Spraying Systems Meterjet applicator or a livestock worming gun to apply a precise amount of the herbicide. A leaf spray using a 1% Surmount solution is slightly less effective.



Pigweed - Pigweeds are prolific seed producers. Single plants are -capable of producing thousands of seeds. Given adequate rainfall, pigweed seeds germinate throughout the summer. All emerged pigweed may be killed by a herbicide treatment only to be replaced by another flush of seedlings. Repeat applications will be needed for full-season control. Spray when the pigweeds are less than 12 inches tall. Cimarron Plus, metsulfuron 60 DF, Grazon P+D, GrazonNext and Dicamba + 2,4-D, and 2,4-D amine all -provide good control of seedling pigweed.

Poison Hemlock - Spray poison hemlock when it is less than 18 inches tall and before it flowers. Grazon P+D and GrazonNext at 1 qt/A are very effective for poison hemlock control when applied in May or early June.

Poorjoe – The presence of a poorjoe is an indicator of low soil fertility. It is readily controlled with Grazon P+D or GrazonNext at 1 at/A and Cimarron Max at Rate II.



Prairie Tea - This summer annual is readily controlled with herbicides. At the rate of one qt/A the following herbicides provide excellent control, Cimarron Max, Grazon P+D, GrazonNext, Weedmaster and 2,4-D. Spray in May or early June when weeds are less than 12 inches tall.

Pricklypear - Employing individual plant treatment, spray pricklypear with a 1% Surmount solution plus 0.5% nonionic surfactant. Use of Hi-Lite Blue Dye will help avoid spraying the same plant twice and show the extent of the coverage on treated plants. Apply during active growth. Do not spray under desirable trees. Do not spray wet pads. Be patient, Surmount works very slowly. It may take 1 to 3 years for -complete control.

Red Cedar - Apply undiluted Tordon 22K to the soil prior to periods of expected rainfall. Apply directly to the soil within the drip line and on the upslope side of the tree. Application to trees taller than 12 feet is not recommended. Apply 3 to 4 mls (cc's) per 3 feet of plant height in either spring (April-May) or fall -(September-October). Soil spot treatments with Velpar are also effective on cedar less than 6 feet tall. Use a Spraying Systems Meterjet applicator or a livestock worming gun to apply a precise amount of the herbicide. DuPont offers a spot gun that will attach directly to the Velpar jug. Leaf sprays of Surmount or Tordon 22K will control cedar.



Red Sorrel - Grazon P+D at 1 qt/A provides excellent control of red sorrel. Metsulfuron or Cimarron Plus at 0.5 oz/A is also very good. Treat anytime the red sorrel is actively growing. Remedy is not effective on red sorrel.

Ryegrass - Glyphosate must be applied in January or February while the ryegrass is small to achieve effective control in dormant bermudagrass. A good rule of thumb is waiting for the high to reach 50 degrees three days in a row. Glyphosate works very slowly in cold weather. Delaying application into March and April results in big ryegrass that is very difficult to control regardless of the rate applied. In two years of testing at six locations, we have gotten excellent ryegrass control with glyphosate at 1.0 lb/ai/A applied in January or February. Another important factor in ryegrass control is adequate spray coverage. Our research herbicides are applied with a boom sprayer at 15 gal/A using 8002 flat fan nozzles on 20-inch spacing.



Sandbur -While not perfect, the best treatment we have found is an early postemergence application of Panoramic (imazapic) at 6 fl oz/A. Add 0.25% nonionic surfactant. Panoramic will stunt bermudagrass. Damage varies, but the loss of one hay cutting is typical. Expect 30 to 45 days of bermudagrass suppression after application. Do not apply to drought-stressed bermudagrass. Do not apply during spring transition. Do not apply to newly sprigged or seeded bermudagrass. See the Pastora label for sandbur control instructions. Fertilization of bermudagrass is a key part of sandbur control.



Sawbrier - Greenbrier control is difficult regardless of the methods or herbicides used. Broadcast herbicide applications are not effective. For individual plant treatment, mix 1 quart Remedy Ultra with 3 quarts diesel fuel, vegetable oil or light mineral oil. Apply this mix to the lower 12 inches of the greenbrier stems with a Conejet 5500 X-1 or X-3 nozzle. Agitate the mixture before spraying. Best results are achieved in the winter when more basal stems are exposed. Expect about 75% control one year after treatment. Follow-up applications are essential.

Sedges - Use 1.33 oz/A of Outrider with 0.25% nonionic surfactant in 10 to 40 gallons of water per acre as a broadcast application. Apply to actively growing sedges with enough leaf area to intercept the spray. Weeds to be treated should not be mowed or grazed for 2 weeks before or after application. Bermudagrass may be harvested after the two-week period without any effect on Outrider efficacy. Weed response to Outrider is very slow. It may require up to 1 month for weeds to become brown. Tank mixing Outrider with herbicides formulated as amines (including 2,4-D) may decrease the effectiveness of Outrider on sedges. For spot treatment, mix 1.33 oz/A of Outrider in 100 gallons of water with 0.25% nonionic surfactant. Apply this as a spray to wet application.

Sericea lespedeza - Apply 1.5 pt/A PastureGard in the late spring to early -summer before bloom. The plants should be 12 to 15 inches tall with fully developed leaves. Increase the rate to 2 pints per acre for dense stands or later stages of growth. Use a minimum spray volume of 10 gallons per acre. Higher application volumes are preferred. For spot application, mix 6 pints PastureGard per 100 gallons of water or 1 fluid ounce PastureGard per gallon of water. Apply the spray uniformly and thoroughly wet the Sericea lespedeza foliage. Metsulfuron 60 DF at 1.0 oz/A plus 0.25% nonionic surfactant is an excellent treatment for sericea control.



Spurge - Use a product that contains metsulfuron such as Cimarron Plus, Patriot, Cimarron Max, Chaparral and several others.

Sumac - Sumac is one of the few brush species that is readily -controlled with 2,4-D amine. Apply at the rate of 1.5 to 2 qt/A. Other herbicides effective for sumac include Grazon P+D, -Remedy, PastureGard and Surmount.

Tropic Croton - This summer annual is readily controlled with herbicides. At the rate of one quart per acre the following herbicides provide excellent control, Cimarron Max, Grazon P+D, GrazonNext, Weedmaster and 2,4-D. Spray in May or early June when weeds are less than 12 inches tall.



Trumpetcreeper - As with many perennial vines, it is virtually impossible to -control trumpetcreeper with a single herbicide application. -Banvel or Clarity at 2 qt/A, or the combination of 2,4-D with a lower rate of Banvel or Clarity, will provide from 60 to 100% control of this weed. Spot treatments of a 2% glyphosate solution are also an effective means of controlling small infestations of trumpetcreeper.

Wild Garlic - In tall fescue, 2,4-D ester at 2 qt/A will provide fair wild garlic control. Apply from December to March. Repeat the application the following year. In bermudagrass, metsulfuron 60 DF or Cimarron Plus at 0.5 oz/A is the preferred treatment. Add 0.25% nonionic surfactant to the spray mix.

Wild Rose - Spray the leaves with a 1% solution of Grazon P+D. Add 0.25% nonionic surfactant. Apply after full leaf-out when conditions are favorable for plant growth.



Virginia buttonweed – This tough perennial is difficult to control with herbicides. Suppression is a more obtainable goal. In limited testing, Chaparral at 2.5 oz/A has been one of the better treatments. GrazonNext at 1 qt/A and Cimarron Max at Rate II will provide about six weeks of suppression.

Woolly Croton - This summer annual is readily controlled with herbicides. At the rate of one at/A the following herbicides provide excellent control, Cimarron Max, Grazon P+D, GrazonNext, Weedmaster and 2,4-D. Spray in May or early June when weeds are less than 12 inches tall.

Yellow Thistle - The key to effective thistle control is spraying while the -thistles are in the rosette stage of growth (before the flower stalk appears). Biennial thistles in Arkansas are readily controlled with a properly timed application of 2,4-D amine at 1.5 qt/A. Spring applications should be made from late February to early March. Fall applications from late October through November will enhance a thistle control program. Grazon P+D, GrazonNext and Dicamba + 2,4-D also provide excellent control of thistles at 1 qt/A.