

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
FORAGE				
Established grass pasture and hay crops				
2,4-D amine @ 0.5 to 2 lb/A	Bitter sneezeweed, buttercup, common ragweed, cocklebur, curly dock, goatweed, lanceleaf ragweed, pigweed, thistles.	2,4-D amine 1 to 4 pt/A of 4 lb/gal 2,4-D. Use the higher rate for late applications and on the more resistant weeds.	Early Treatment South Arkansas March 15 to April 15 North Arkansas April 15 to May 15	Delayed treatment is more effective on late spring weeds. All legume species except established white clover and lespedeza (more than 2") are severely injured or killed. See animal restrictions.
2,4-D LV esters @ 0.5 to 2 lb/A	Bitter sneezeweed, buttercup, common ragweed, cocklebur, curly dock, goatweed, lanceleaf ragweed, pigweed, thistles, wild garlic.	2,4-D ester 1 to 4 pt/A of 4 lb/gal 2,4-D.	Same as above except garlic which should be treated in November or December and repeat in late February or early March.	Tends to be 10 to 20% more active than amine formulation due to greater leaf penetration. More effective on larger weeds and most perennials. Add a surfactant for garlic.
dicamba @ 0.5 to 8 lb/A	Most 2,4-D weeds and dogfennel, red sorrel and smartweed.	Banvel, Clarity 1 pt to 2 gal/A of 4 lb/gal.	For annuals apply when weeds are 2 to 4 inches tall and actively growing. Thistles: rosette stage. Dogfennel: 12 to 18 inches. Other perennials: at or near bloom.	May be tank mixed with 2,4-D to improve control of thistles, red sorrel and smartweed. Do not apply to legumes.
2,4-D + picloram @ 0.063 + 0.25 to 0.54 + 2 lb/A	Bitterweed, buttercup, cocklebur, docks, dogfennel, thistles, horsenettle, horseweed, prickly lettuce, prickly pear, ragweed, woolly croton, red sorrel and smartweed.	Grazon P + D 1 to 4 pt/A.	Apply when broadleaf annual weeds are small and actively growing. Spray horsenettle at bloom stage. Treat prickly pear in early May.	Check label for groundwater advisory. The county Extension office has information on the leachability of the soil types on your land. Use higher rates for perennials. Do not use on or near land to be planted in legumes.
2,4-D + dicamba @ 0.375 + 0.125 lb to 0.75 + 0.25 lb/A	Dogfennel (cypressweed), smartweed, horsenettle, thistles, dock and all weeds listed for 2,4-D alone.	Brash, KambaMaster, Weedmaster, Range Star 1 to 4 pt/A. High rate for horse-nettle and thistles.	See instructions for Banvel.	1 lb of Banvel and 2.87 lb of 2,4-D amine per gallon. Controls a broader spectrum of weeds than 2,4-D. May severely injure or kill legumes.
aminopyralid @ 0.046 to 0.1 lb/A	Cocklebur, thistle, horsenettle, buttercup, bitterweed, horseweed, smartweed and others.	Milestone 2L 3 to 7 fl oz.	Postemergence to actively growing weeds. See label for specifics.	No grazing or haying restrictions. Will kill legumes. Do not exceed 7 ounces per acre per year. See label for crop rotation restrictions. Urine and manure of animals grazing treated pastures may contain enough aminopyralid to damage sensitive crops See label for details.
aminopyralid + 2,4-D @ 0.06 + 0.5 to 0.10 + 0.86 lb/A	Many broadleaf weeds including plantain, thistle, bitterweed, horsenettle, wild carrot, buttercup and ragweeds.	Grazonext 1.5 to 2.6 pt/A.	Postemergence to actively growing weeds. See label for specifics.	Do not harvest forage for hay within 7 days of application. Do not apply more than 2.6 pts/A per growing season. Urine and manure of animals grazing treated pastures may contain enough aminopyralid to damage sensitive crops. See label for details.

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metsulfuron + chlorsulfuron @ 0.0011 + 0.0038 + 0.012 + 0.038 lb/A	Bahigrass, bitter sneezeweed, buckbrush, buttercup, chickweed, common mullein, curly dock, groundsel, musk thistle, red sorrel, wild garlic.	Cimarron Plus 0.125 to 1.25 oz/A.	Apply to small, actively growing weeds. Bahigrass should be treated when actively growing. Good coverage is important.	Bermudagrass, orchardgrass, bromegrass and timothy have good tolerance. May cause yellowing and stunting and seedhead suppression of fescue. One cutting of fescue may be lost. Do not treat ryegrass or legume pastures. Desirable grasses should be established for 60 days. Do not use on grasses grown for seed. Apply before weeds are 4 inches tall. Use the high rate for garlic and bahigrass. See label for other use rates and crop rotation restrictions. Add 0.25% nonionic surfactant.
2,4-D + dicamba + metsulfuron @ 0.35 to 1.5 + 0.125 to 0.5 + .009 to .038 lb/A	Most broadleaf weeds and bahigrass.	Cimarron Max 0.25 to 1 oz + 1 to 4 pt/A.	Postemergence to actively growing weeds.	Good on tough weeds such as groundsel (<i>Senecio sp.</i>) and cancerweed (<i>Salvia lyrata</i>). Tank mix of 3 effective herbicides that control many broadleaf weeds.
chlorsulfuron @ 0.011 to 0.04 lb/A	Chickweed, henbit, pigweed, thistle, curly dock, poison hemlock, white clover.	Telar 75 DF 0.25 to 1.0 oz/A.	Postemergence to actively growing weeds.	In Arkansas pastures, chlorsulfuron does not control as broad a weed spectrum as metsulfuron (Ally).
imazapic@0.063 to 0.19 lb/A	Johnsongrass, crabgrass, sandbur, sedges, barnyardgrass, broadleaf signalgrass, foxtail.	Panoramic 2 SL 4 to 12 fl oz/A	When bermudagrass is fully green and actively growing. Do not apply during transition. Do not apply to drought-stressed bermudagrass, newly aerated fields for 30 days or to newly sprigged or seeded bermudagrass.	Do not use this product unless you can tolerate 30 to 45 days of bermudagrass suppression after application. Start with the 4 oz rate. Panoramic 2SL may be applied to common and coastal bermudagrass varieties. Jiggs bermudagrass is more sensitive than other types. Do not apply to World Feeder bermudagrass varieties. Use the 6 oz rate for sandbur.
imazapic + glyphosate @ 0.023 + 0.063 to 0.188 + 0.5 lb/A	Johnsongrass, crabgrass, sandbur, sedges, tall fescue control or seedhead suppression.	Journey 4 to 32 oz/A.	Postemergence.	Do not use unless bermudagrass injury can be tolerated. Start with the low rate. Plant back intervals range from 12 to 48 months. No grazing restrictions, 7 day waiting period before cutting hay from treated fields. Add 0.25% nonionic surfactant.
sulfosulfuron @ 0.62 lb/A	Johnsongrass, sedges.	Outrider 75DF 1.33 oz.	Postemergence.	For use in bermudagrass. Add 0.25% v/v of a nonionic surfactant in 10 to 40 gallons per acre as a broadcast application. Apply to actively growing johnsongrass that is at least 18-24 inches tall and up to the heading stage. Sedges should be actively growing with sufficient leaf area developed to intercept the herbicide. Weeds to be treated should not be mowed or grazed for two weeks before or after application.

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Dormant Bermudagrass Pastures				
paraquat @ 0.25 to 0.5 lb/A	Tall fescue, annual grassy weeds such as little barley and broadleaf weeds such as buttercup.	Gramoxone Inteon 1 to 2 pt/A.	During active weed growth when there is good soil moisture. Tall fescue: fall, fescue 4 inches tall. Dormant bermuda: February-March before mid-boot stage of little barley.	Two to three applications may be needed for fescue control. When converting to non-endophyte fescue, an intervening crop should be planted before planting the endophyte-free fescue. Do not graze or cut for hay for 40 days after treatment.
glyphosate @ 0.25 lb/A	Annual grasses such as crabgrass, foxtail and sandbur and small broadleaf weeds. Seedling weeds are easier to control.	Glyphosate (4 lb/gal formulations) See table on page 23 for specific glyphosate conversions and surfactants. 16 oz/A.	Late winter early spring to dormant bermudagrass or immediately after first cutting.	May be applied to dormant bermudagrass or immediately after the first cutting. Applying Roundup to partially green bermudagrass in the spring or regrown bermudagrass after the first cutting will result in crop injury. Do not graze or cut for hay for 60 days following a dormant application. When applying after first cutting, wait 28 days before grazing or harvesting. Roundup cannot be applied to dormant bermudagrass and after the first cutting in the same year. Remove livestock before applying.
Sod Suppression				
paraquat @ 0.25 to 0.5 lb/A	Sod suppression.	Gramoxone Inteon 1 to 2 pt/A.	Postemergence in late summer or early fall to sod not greater than 3 inches tall. Apply before or at the time of seeding winter annuals.	Do not graze treated areas until 60 days after treatment or until winter annual seedlings are 9 inches tall. Add a surfactant.
Newly Sprigged Bermudagrass				
2,4-D + dicamba @ 0.7 to 1.4 + 0.25 to 0.5 lb/A	Annual grasses and annual broadleaf weeds.	Brash, KambaMaster, Weedmaster, Range Star 1 to 2 qt/A.	As weeds begin to emerge, typically 7 to 10 days after planting but the timing may vary with environmental conditions.	For use after sprigging bermudagrass. Control will be reduced if the weeds are allowed to reach 1 inch in height or emergence occurs 10 days after application.
diuron @ 1.0 to 1.5 lb/A	Many grass and broadleaf weeds.	Diuron 4L 1.0 to 1.5 qt/A.	Preemergence or early postemergence.	Apply after planting and before emergence of bermudagrass or weeds. Alternatively, for control of emerged annual weeds up to 4 inches in height, apply 0.4 to 0.8 quart per acre, add 0.25% non-ionic surfactant. If bermudagrass has emerged at time of treatment, temporary burn of exposed plant parts may occur. Plant sprigs 2 inches deep in a well-prepared seedbed; do not treat areas where sprigs are planted less than 2 inches deep as crop injury may result. Do not graze or feed foliage from treated areas to livestock within 70 days after application. Never use diuron on "Tifway" or "419" turf-type hybrid bermudagrass.