

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
BRUSH CONTROL [cont.]				
hexazinone @ 0.66 lb/A	Red cedar, elms, honeysuckle, hickory, oaks.	Velpar L 2 to 4 milliliters per stem up to 1/3 gal/A.	Can be applied any time. Late winter and early spring applications perform the best. Needs rainfall for activation.	Soil-applied only. Do not use on soils with a high clay content. Persimmon and sassafras are not controlled. Do not apply where the roots of desirable vegetation extend. Will injure grass. Apply during the dormant season. Do not apply when the soil is frozen or snow-covered. Do not apply to red cedar over 6 feet tall. Apply to soil at base of stem with a spotgun. Do not exceed 1/3 gal per acre per season or treat more than 709 brush plants per acre per season.
2,4-D + dicamba @ 1.4 + 0.5 lb/A	Buckbrush, hawthorn, black locust, sumac, willows.	Weedmaster 2 qt/A, or 32-48 oz.	At full leaf-out in spring.	Effective on a limited number of brush species. Contains amine 2,4-D. Follow-up treatments are usually needed. Use 2% solution for hand equipment applications. Add 0.5% nonionic surfactant.
2,4-D ester @ 2 to 4 lb/A	Buckbrush, black locust, hawthorn, sumac, willows.	2,4-D 2 to 4 qt/A or 32 to 48 oz/A.	At full leaf-out in spring.	Ester formulations more readily penetrate the leaves of brush species. Effective on a limited number of brush species. Follow-up treatments are usually needed. Use 2% solution for hand equipment applications. Add 0.5% nonionic surfactant. Some studies have shown the amine formulation to be more effective on buckbrush.
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Postemergence				
2,4-DB amine @ 1 lb/A	Broadleaf weeds.	Butyrac 200/Butoxone 2.3 qt of 1.75 lb/gal 2,4-DB or 2 qt of 2 lb/gal.	When alfalfa seedlings are 3 inches or following hay harvest before new growth starts.	AVOID DRIFT. Best applied to very small weeds, 2 to 6 leaves.
imazethapyr 0.047 to 0.094 lb/A	Foxtails, chickweed, cocklebur, mustards, shepherdspurse.	Pursuit 70 DG 1.08 to 2.16 oz/A.	Postemergence to seedling alfalfa when the weeds are in the 1- to 3-inch size range.	Apply to alfalfa that has reached the second trifoliolate or later. Pursuit may be tank mixed with other herbicides. Add crop oil concentrate and UAN at 1 qt/A.
imazamox @ 0.03 to 0.04 lb/A	Annual grasses and some broadleaf weeds.	Beyond Xtra 1L 4 to 6 oz/A.	Early postemergence while the weeds are actively growing and before they exceed 3 inches.	Alfalfa should have at least two trifoliolates before applying Beyond Xtra. For weeds such as mustards with a prostrate growth habit, apply before the rosette exceeds 3 inches. Beyond Xtra may cause temporary stunting.

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clethodim @ 0.094 to 0.125 lb/A	Crabgrass, fall panicum, foxtails, johnsongrass.	Select 2E 6 to 8 oz/A.	Postemergence.	See label for weed sizes and rates. Allow time for regrowth if applying after harvest. Add crop oil concentrate at 1 qt/A.
sethoxydim @ 0.2 to 0.3 lb/A	Annual grasses and johnsongrass.	Poast 1.5 EC 1 to 2.5 pt/A. Use low rate for small annual grasses, high rate for johnsongrass.	Small annual grasses. Johnsongrass 15" to 20". Do not apply to grass under stress.	See comments for Poast in soybean section. Do not apply more than 5 pt/A per year. Split application most effective for johnsongrass. 1.5 pt/A followed by 1 pt/A.
glyphosate @ 0.7 to 1.4 lb/A	Many broadleaf and grass weeds.	Glyphosate 4 lb/gal 22 to 44 oz/A.	Postemergence.	For use with Roundup Ready Alfalfa. Do not exceed 44 fl oz/A in a single application. May be used from emergence to 5 days before cutting. Wait at least 7 days between applications. Do not exceed 132 oz/A per growing season. Remove livestock before application and do not graze for 5 days. Make a 22 oz/A application during establishment before the 3 to 4 trifoliolate stage to eliminate non Roundup Ready seedlings. In established stands, make weed control applications while the weeds are exposed and not hidden by alfalfa regrowth.

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Preemergence and Postemergence

terbacil @ 0.5 lb/A	Postemergence control of winter weeds, also preemergence control of summer annual grass and broadleaf weeds.	Sinbar 80W 0.6 lb/A.	In late winter or early spring before alfalfa breaks dormancy.	Treat only stands established for one year or more. Do not use on alfalfa-grass mixture.
diuron @ 1.2 to 2.4 lb/A	Winter annuals.	Karmex 80 DF 1.5 to 3.0 lb/A.	While alfalfa is dormant.	Treat only stands established for one year or more. Do not treat alfalfa under stress.
metribuzin @ 0.38 to 0.75 lb/A	Winter annuals.	Sencor 75 DF 0.5 to 1.0 lb/A.	While alfalfa is dormant.	Treat only stands established for one year or more. Do not treat alfalfa under stress.
pronamide @ 0.5 to 0.75 lb/A	Winter grasses and some winter broadleaves.	Kerb 50W 1 to 1.5 lb/A.	Apply during the fall or winter months. Has preemergence and post-emergence activity.	Do not use on legumes before the first trifoliolate stage. See label for particulars.
hexazinone @ 0.5 to 1.5 lb/A	Most winter broadleaves and some winter grasses.	Velpar L 1 to 3 qt/A.	Treat while crop is dormant.	Treat only healthy stands established one year or more. Do not use on sandy loams or loamy sands with less than 1% organic matter. Do not exceed 1 qt/A on sandy loams or loamy sands with 1 to 2% organic matter.