

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
ALFALFA				
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.
bromoxynil @ 0.25 to 0.375 lb/A	Seedling broadleaf weeds.	Buctril 2E 1 to 1.5 pt/A. Use higher rate for less susceptible weeds.	Apply when seedling alfalfa is in the 2- to 4-leaf stage. Weeds should be 4-leaf or less than 2 inches tall.	Crop leaf burn can occur following application. Do not add a surfactant or crop oil. Do not treat when temperatures exceed 70°F. Do not apply to alfalfa under stress. Do not feed or graze for 30 days following treatment. May be tank mixed with 2,4-DB.
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.	Raptor 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 trifoliate leaves before applying Raptor. For weeds such as mustards with a prostrate growth habit, apply before the rosette exceeds 3 inches. Raptor may cause temporary stunting.
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.	0.6 lb/A. Sinbar 80W	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.	1.5 to 3.0 lb/A. Karmex 80 DF	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.	0.5 to 1.0 lb/A. Sencor 75 DF	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.	1 to 1.5 lb/A. Kerb 50W	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.	1 to 3 qt/A. Velpar L	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.
CLOVER: RED, ALSIKE, LADINO				
Postemergence				
2,4-DB amine @ 1 lb/A	Annual grasses and broadleaf weeds.	2.3 qt/A of 1.75 lb/gal 2,4-DB or 2 qt/A of 2 lb/gal. Butyrac, Butoxone	When legumes (seedlings or established stands) have two or more true leaves with weeds in seedling stage.	Best control is achieved with weeds in the 2- to 4-leaf stage. Will not control henbit or chickweed.
sethoxydim @ 0.31 lb/A	Most grasses.	2.5 pt/A. Poast 1.5 EC	Postemergence.	For use on established stands of clover. See label for specific grass weed information. Do not spray drought-stressed weeds. Add surfactant or crop oil concentrate.
MISCANTHUS, OTHER BIO-FUEL CROPS				
Post Sprigging				
glyphosate @ 1 lb/A	Emerged weeds.	32 oz/A. Glyphosate (4 lb/gal formulations)	Preplant for vegetation knockdown.	Apply immediately after sprigging – no green miscanthus leaves.
acetochlor @ 1.5 lb/A	Small-seeded grass and broadleaf weeds.	3.2 pt/A. Degree 3.8 EC	Apply at planting up to early post. Residual control only.	Do not exceed 6.4 pints per year. Do not graze treated forage or use for hay.
acetochlor + atrazine @ 1.11 to 1.5 + 0.55 to 0.74 lb/A	Same as above plus post broadleaf activity and better residual control.	3.3-4.4 pt/A. Degree Xtra 4L	Apply at planting or when miscanthus is 2 to 3 inches tall.	Do not exceed 8.8 pt/A per year. Do not graze or feed.