

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per Broadcast Acre	Time of Application	Method of Application and Precautions
<b>BRUSH CONTROL</b>				
Imazapyr @ 0.25 to 0.75 lb/A	Persimmon, sassafras, oak, hickory, sweetgum.	<b>Arsenal</b> 1% solution.	May to September.	Add 0.5% surfactant. No grazing restrictions. Will kill grass. Do not exceed 48 oz per acre.
2,4-D + picloram @ 2 + 0.54 lb/A	Buckbrush, honeylocust, multiflora rose, some oaks, persimmon, prickly pear cactus.	<b>Grazon P+D</b> 4 qt/A.	At full leaf-out in May or June.	Use high rate for prickly pear control. Results are very slow. Evaluate one year after application. Add 0.5% nonionic surfactant. Tank mix Grazon P+D with 1 qt/A or 0.5% Remedy or for broad spectrum mixed brush control. Adding Remedy may improve honeylocust control. Use 1 to 2% solutions for hand-held equipment.
picloram @ 0.25 to 0.5 lb/A	Prickly pear cactus, persimmon, honeylocust.	<b>Tordon 22K</b> 1 to 2 pt/A.	Treat prickly pear in early May. Treat persimmon or honeylocust in May or June.	Read the entire label carefully before using picloram. We recommend that it be used as a spot treatment (see label) rather than broadcast application. Do not exceed 1 quart of Tordon 22K per acre per season. Picloram is a chemical which can travel (seep or leach) through soil and under certain conditions has the potential to contaminate groundwater which may be used for irrigation and drinking purposes. Users are advised not to apply picloram where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow or to soils containing sinkholes over limestone bedrock, severely fractured surfaces and substrates which would allow direct introduction into an aquifer. Your local county Extension office can provide further information on the type of soil in your area and the location of groundwater.
picloram + fluroxypyr @ 0.22 + 0.18 to 0.9 to 0.72 lb/A	Horsenettle, hemp dogbane, ragweed, thistles, etc., and also for many brush species, including blackberry and multiflora rose. Will not control any grass weeds or sedges.	<b>Surmount</b> 1.5 to 2 pt/A for general broadleaf control. 3 to 6 pt/A for brush control.	During active weed growth. Blackberry and multiflora rose are best controlled when they have not been mowed for at least one year.	New legume seedlings may not be successful if planted within 1 year after applying herbicide. Consult label for specific recommendations. Using a surfactant will improve the performance of this herbicide.

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triclopyr @ 0.75 to 1.5 lb/A	Blackberries, buckeye, oaks, willow, pine, sumac, osage orange, sweetgum, mixed brush.	<b>Remedy Ultra</b> 1.5 to 3 pt/A.	Apply during good growing conditions. Blackberries: flowering through mid-July, leaves must be fully developed on fruiting canes. May through June for general foliar use. Treat cut stumps when fresh, make basal bark applications during dormant season.	Use a 0.5 to 1% solution for hand equipment applications. Add 0.5% nonionic surfactant. Follow-up applications will be needed for control of most species. Tank mix with 1 gallon per acre or 2% Grazon P+D for broader spectrum brush control.
metsulfuron @ 0.038 lb/A	Blackberry, dewberry, <i>Sericea lespedeza</i> , honeysuckle.	<b>Metsulfuron 60DF</b> 1.0 oz/A.	Postemergence.	Add 0.25% nonionic surfactant. Will stunt fescue. Do not spray ryegrass or legume pastures.
fluroxypyr + triclopyr @ 0.5 to 2.0 lb/A	Many broadleaf herbaceous and woody plants.	<b>PastureGard HL</b> 1 to 4 pt/A.	Postemergence.	A more concentrated version of PastureGard. Do not use more than 2 qt/A in a single growing season. Do not harvest hay for 14 days after application. Do not graze lactating dairy cows during the growing season of application. Withdraw animals from treated pasture 3 days before slaughter.
metsulfuron + aminopyralid + triclopyr + fluroxypyr @ 0.019 + 0.1 + 0.38 + 0.125 lb/A	Many brush species and broad-leaf weeds.	<b>Chaparral + PastureGard HL</b> 3.3 oz + 1 pt/A	May to September.	Will kill bahiagrass. Does not contain picloram. Add 0.5% nonionic surfactant.
aminopyralid + 2,4-D + triclopyr ester @ 0.1 + 0.8 + 1.0 lb/A	Many brush species and broad-leaf weeds.	<b>GrazonNext HL + Remedy Ultra</b> 2.0 + 2.0 pt/A	May to September.	Provides brush control without the use of picloram. Add 0.5% nonionic surfactant.
glyphosate @ 2 to 5 lb/A	Blackberry, honeysuckle, kudzu, multiflora rose, poison ivy, trumpet creeper.	<b>Glyphosate</b> (4 lb/gal formulations) 2 to 5 qt/A.	Late fall to early summer before leaf color changes. Do not apply to drought-stressed or dusty brush.	Use a 2% solution for spot treatment. Add 0.5% nonionic surfactant. Follow-up treatment will be needed. Will kill grass.
tebuthiuron @ 2 to 4 lb/A	Buckbrush, red cedar, elms, hickory, honeylocust, honeysuckle, oaks, pines, sweetgum.	<b>Spike 20P</b> 10 to 20 lb/A.	Can be applied any time. Late winter and early spring applications perform the best. Needs rainfall for activation.	Soil-applied only. May take up to 3 years for complete kill. 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. Root spread of trees may be triple the crown width. 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.

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<b>CLOVER: RED, ALSIKE, LADINO</b>				
<b>Postemergence</b>				
sethoxydim @ 0.31 lb/A	Most grasses.	<b>Poast 1.5 EC</b> 2.5 pt/A.	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.
<b>MISCANTHUS, OTHER BIO-FUEL CROPS</b>				
<b>Post Sprigging</b>				
glyphosate @ 1 lb/A	Emerged weeds.	<b>Glyphosate</b> (4 lb/gal formulations) 32 oz/A.	Preplant for vegetation knockdown.	Apply immediately after sprigging – no green miscanthus leaves.
acetochlor @ 1.5 lb/A	Small-seeded grass and broad-leaf weeds.	<b>Degree 3.8 EC</b> 3.2 pt/A.	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 broad-leaf activity and better residual control.	<b>Degree Xtra 4L</b> 3.3-4.4 pt/A.	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.