

## What herbicide to use for various weeds

Bill Kleiman May 16,  
2023

Sorted by common name

Weed common	Weed Scientific	Herbicide & Strategy	Comments	Importance and Difficulty	Life cycle
L daurica	Lespedeza daurica	triclopyr works so Crossbow, Element 3A. Dow says use: Milestone, PastureGard HLM Garlon 4 Ultra water solution. Saxton uses 1-2 oz/g G4 in water on Lespedeza cuniata. Spot spray in June sweeps once plant is noticeable. Continue sweeps through July and into August. BK found 1% Milestone browned out L daurica 2019. In 2022 I found Milestone was slowly killing the ABC, but G3A seemed to brown is faster. PastureGard seems popular w/ L cuneata. Basal bark to where plant emerges seems very effective. 6/7/23: BK tagged ABC plants for a year and Milestone worked.	Transline does <u>not</u> work on the genus Lespedeza. Hamilton uses Remedy(triclopyr) on L cuneata in summer and Cimarron Plus (metsulfuron methyl and chlorsulfuron) in early fall. All stems should get herbicide. Return to occurrence twice a year if possible.	<b>High.</b> Hard to find and keeps coming up from the seed bank. Search before vegetation obscures is a challenge. Follow map. The plant sprawls lower on ground than say L capitata, but puts on more mass as year progresses. By mid-July plants can be rather large and tall, but not like L cuneata which stands straight up. Look at plants carefully, note leaf petiole rather long, less hair than L capitata, stems can get a red tint.	Perennial forb
autumn olive, russian olive	Elaeagnus umbellata. E angustifolia	triclopyr works: basal bark Garlon4, foliar triclopyr too so use Crossbow, element 3A	basal bark works well	High. Once established they become abundant.	Perennial shrub
birdsfoot trefoil	Lotus corniculatus	Crossbow, Milestone (has residual), Transline, Element 3A. Spot spray plants. Boom large depauperate areas. A bit of basal bark at base.		High. Seeds last a long time and emerge annually for years after adults are all gone. Need multiple visits per site annually.	Perennial forb.

black locust	Robinia pseudoacacia	Milestone appears to work well. Walters found 20% basal bark G4 killed 100%, and can use 2% Transline w 0.6 oz/g surfactant on small re-sprouts. Foliar dilute Roundup on all leaves works said Bill Glass.	At CCK planting there is amorphia bush which looks similar but no thorns, prickly ash has paired thorns but they are a small shrub w/ straight out w reddish hairs in leaf scar, and C milkvetch is a similar but not woody.	Medium. Big clones are lot of mass and resprout easily.	Perennial legume tree. Sprouts from roots.
bouncing bet	Saponaria officinalis	Milestone seems to be working well at 0.7 ounces per gallon. Walters uses tricopyr and 24D (amine or ester depending on situation) Use 6 oz per gallon Crossbow and have generous amount of MSO for waxy leaves. I have been using 2% Crossbow which seems to work. G3A or glyphosate might work fine. Spray early in bloom or before bloom. Try Telar XP (Hauser) works well and has residual. Bernie used 6ml (0.2 oz) Telar in 2 g water.	Add surfactant to get past wax. Requires multiple returns. Get all rosettes.	Medium. Seed bank is long lasting and plants hard to get at on creek banks. It is clonal so seek out the little ones nearby	Perennial clonal forb in soapwort family
briars	Rubus sp.	Krenite in fall.		Low. Annoyance on fire breaks.	Perennial
buckthorn	Rhamnus	basal barn Garlon 4, foliar Crossbow or Element 3A. Basal bark is an efficient method.	basal bark works well	Low. Our sandy silt loams don't support it well.	Perennial small tree
butter and eggs	Linaria vulgaris	Alligare Panoramic 2 SL(Imazapic). 24D (Hauser expects Milestone <u>not</u> to work on this scroph.) Crossbow might be working. Mn website says 24D works so Crossbow should work. Dow says Milestone for Linaria dalmatica.		Medium since we have just a few outbreaks, but they have persisted in our spraying.	Perennial forb in scrophul aria

chamomile	Anthemis cotula?	Likley Crossbow will work.	by corral	unknown	
Common St Johnswort	Hypericum perforatum	Milestone, Opensight	Learn the native St Johnsworts before	Low.	
cow Vetch	Vicia cracca	Milestone, Transline.		Medium. Huge amounts in Williams north makes it look serious. Previously we just had a bit on a few fences.	Perennial sprawling forb with purple blue flowers
crown vetch	Coronilla varia	Milestone 0.7 ounce per gallon works well. Have tried Transline.	Check annually. Spray twice a year might do it.	Medium. Few patches here but hard to extinguish.	Perennial forb forming rafts of plants.
dames rocket		3% Amine triclopyr w surfactant	Spray fall to early spring rosettes (B Walters 2016)	Low. Gregarious but not spreading.	
day lilly	Hemerocallis fulva	Kleiman and Walters using 3% glyphosate with 2% Habitat on these monocots like Scilla.	Add surfactant to get past wax. Requires multiple returns. Know native blue flag iris.	Medium. Requires numerous returns.	Perennial forb monocot

honeysuckle or Amur honeysuckle	Lonicera maackii is what we tend to have	Apply to bark (basal bark) Garlon 4 works. Or 40% Roundup or 17% garlon 4 on cut stems. Foliar 5% Roundup on resprouts after fire works well too, before plants become taller than a foot for overspray control. Foliar Progency at 4 oz per gallon water and add 0.5% MSO. Progeny is MCPA, triclopyr and dicamba. Order from CPS. Bryon W says use Chem 90 surfactant at 0.25-0.50%. MSO rarely used. Says literature supports Chem 90 style surfactants. Walters says Escort at end of summer works.	Dormant season basal bark gives excellent control	High.	Perennial shrub
hounds tongue	Cynoglossum officinale	Crossbow should work, Milestone.		Low. Nuisance.	
king devil	Hieracium pratense	Crossbow or Element 3a, Milestone. Look for nearby rosettes. Transline supposed to work before bolting.	Haul out flower in a bag. Dispose in kitchen trash.	Medium. Seed blow in the wind and hard to find them all annually.	forb
leafy spurge	Euphorbia eschella	Panoramic [imazapic] Apply in spring blooms and return in fall. This is not imazapyr. See article. Dow suggests Tordon. Walters uses recommended 10% glyphosate.	blooms May and late August	High. Hard. We have few of them but keeps coming back. They are on right of ways north of us.	Perennial forb
mulberry	Morus alba	Garlon 4 works well. Rick S says Polaris AC Complete but non-selective. Or Milestone at 14 oz per acre as spot treatment. Perhaps Crossbow but apply a lot.	transline does not work. Basal bark does.	Low. A problem in certain areas where it is abundant. Resists herbicide.	shrub

oxe eye daisy	Leucanthemum vulgare, Chrysanthemum v.	Metsulfurone (Escort), Aminopyralid (Milestone), Aminopyralid + 2,4 D, picloram(Tordon), Transline?, Clopyralid + 2,4-D. I see Trcopyr listed but not % success. Maybe Crossbow works.	perennial	Medium.	Perennial forb
phragmites	Phragmites australis	Walters using 3% aquatic glyphosate (Rodea or Aqua Neat) plus 2% imazapyr (Habitat or Polaris) plus 1/2% Aqua King surfactant.		High as we have almost none currently, but it is known to be hard to eradicate.	Perennial grass seems to be rhizomatous
poison hemlock	Conium maculatum	Dow suggests Opensight. Telar XP works well (Hauser). Spray before flower if possible. Crossbow aggressive but for low quality areas seems to work but before late bloom.Escort 1-2 oz/acre says Aaron Kubichka. Walters likes G3A w 2,4D. He sometimes uses Buckshot (glyphosate w 2,4-D) as it can do RCG and other weeds at same time. Try to treat before bolting. We treated with G3A in early bolt and it looked fully dead 4 weeks later.	Blooms in June	Medium. increasing on Franklin Creek	Biennial forb. Poisonous.
red clover	Trifolium pratense	Transline, Crossbow, Element 3A	Transline works well.	A problem in new prairie plantings.	Perennial legume forb. Likes mowing.

reed canary grass	Phalaris arundinacea	We use 1% clethodin (Intensity), w MSO, and crop oil, and sometimes Ammonium sulfate. We have used aquatic glyphosate in dense stands. Walters uses 2% aquatic glyphosate with 1% imazapyr (Habitat or Polaris), and NIS. Craig Annen uses ReQuest agent for neutral pH and to offset hard water. Walters using Habitat only over water as it is approved and works great 2016.	Grass herbicides way to go as sedges and forbs come back strong. But monocultures could be sprayed with glyphosate. See GRN posts by Walters and Mason.	Hard. Requires annually work.	Perennial grass forms monocultures
Rubus	Rubus sp.	Milestone, Opensight, Garlon 4 Ultra, Krenite.		Control only on fire breaks	Perennial
Sericea lespedeza	Lespedeza cuneata	Pastureguard HL gave best results. (Pastureguard is triclopyr ester and fluroxypur ester.)	<a href="https://weedsience.missouri.edu/weedtrials/pdfs/sericea.pdf">https://weedsience.missouri.edu/weedtrials/pdfs/sericea.pdf</a>	High, if seen. We have none currently, but a difficult plant to control when abundant.	Perennial legume forb.
showy tick trefoil	Desmodium canadense	A bit of G4 applied at base works well. Milestone sprayed modestly on foliage works well too. 2022	Native plant but increases		Perennial legume
spotted knapweed	Centaurea maculata	Milestone. Opensight. Transline. Have used Crossbow.		High if seen. We eradicated it, or almost, at HLP.	Perennial forb

sweet clovers	Melilotus alba/officinalis	Crossbow, Milestone, Element 3A. Spade out plants anytime. Haul plants after flowering is over to remove seed source. Spray plants under two foot tall. Mow big patches when in full bloom. Transline applied early in bloom should work but acts slowly and can lead to plants that appear to have seeds on them.	Walters says Transline works well. We often use Transline until plants are robust then move to Crossbow or G3A. Important to spray early enough to give the herbicide time to act. So full growth plants may need extra herbicide or may need mowing instead of spraying.	High. Long seed bank.	Biennial forb.
teasel	Dipsacus	Walters says use Transline. BK notes you can pull them.		High if seen. We have a few spots with it.	
wafer ash	Ptelium vir	Milestone says Cody	basal bark works well	Native. Usually left alone.	Perennial shrub
wild chervil	Anthriscus sylvestris	Transline says Ben Habethur.		At Soderholms. It looks to be able to spread easily.	
wild parsnip	Sativa pastinaca	Element 3A before it bolts, spade it after. Dow suggests Opensight. Spading works great but haul out plants after full flowering or you may get seed set. Mow it after it bolts helps. June 2021 Cody sprayed the CRP by Stafford with Pature Gard and a week out it looked unaffected. Goldenrods had wilted.	Sap on skin gives sun burn boils.	Medium. This does not invade remnants or restorations that are intact, but it can get dense in fallow fields and such open niche places.	Biennial forb
willow	Salix sp.	Cut and treat stems 50% glyphosate. Basal bark G4 should work. Foliar G3 or Crossbow.		High dense stands hard to manage.	

wild marjorum	Origanu m vulgare	Milestone appears to do nothing to this mint. BK applied Crossbow 7/22/19 and expects kill.	Exotic, oregano from Euro	It is very dense where I found it so would rather not let it go all over.	
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## CONVERSION FACTORS FOR LIQUIDS

This	Equals this	Equal this too
128 oz	1 gallon	4 quarts
8 oz	1 cup	
4 cups	32 oz	1 quart
16 oz	1 American pint	
2 pints	1 quart	
1 teaspoon	0.17 oz	
1 ml	0.034 oz	
1 oz	30 ml	