

SHELTERBELT WEED CONTROL

Extension Bulletin W-1097, "Weed Control in Tree Plantings" provides additional information.

Read and follow label directions. Most herbicides can injure trees if applied in a manner inconsistent with label directions. Only use herbicide formulations that are labeled in shelterbelts and only as described on the label. Eliminate perennial weeds prior to planting trees. Refer to label for application method (broadcast, over-the-top, directed), timing (spring or fall), and tolerant and susceptible tree species.

Herbicide	Product/A (ai/A)	Remarks																																								
Alion (indaziflam)	5 to 6.5 fl oz (0.065 to 0.085 lb)	Residual , soil-applied herbicide. Apply PRE in a broadcast, or directed application to soil when around desirable tree species. Adjust rate for soil type. Refer to label for additional information.																																								
Casoron (dichlobenil)	100 to 200 lb 4G (4 to 8 lb)	Volatile, especially on wet soil. Preemergence herbicide for control of annual and perennial weeds in new plantings established at least 4 weeks. Most effective when applied in November or March just before rain or snow to activate and move dichlobenil into the soil.																																								
Finale (glufosinate)	2 to 6 qt (0.5 to 1.5 lb)	Non-selective, non-residual, contact herbicide. Directed application only. Controls many annual and perennial weeds. Use 1.5 to 4 fl oz/gal for spot application. Use 3 to 4 qt/A for weeds less than 6 to 8 inches tall or 5 to 6 qt/A for weeds greater than 6 to 8 inches tall.																																								
Fusilade DX (fluazifop-P)	1 to 1.5 pt (0.25 to 0.38 lb)	Translocated, postemergence, non-residual herbicide for control of annual and perennial grasses. Spot spray or apply over-the-top of woody species. Add oil additive at 1 qt/A.																																								
Roundup / generic glyphosate	2% solution or Up to 1.125 lb ae See Remarks.	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: center;">0.75 lb ae</th> <th style="text-align: center;">1.125 lb ae</th> <th colspan="2"></th> <th style="text-align: center;">0.75 lb ae</th> <th style="text-align: center;">1.125 lb ae</th> </tr> <tr> <th style="text-align: left;">lb ae/gal</th> <th style="text-align: left;">lb ai/gal</th> <th style="text-align: center;">-----</th> <th style="text-align: center;">fl oz/A</th> <th style="text-align: center;">-----</th> <th style="text-align: left;">lb ae/gal</th> <th style="text-align: left;">lb ai/gal</th> <th></th> </tr> </thead> <tbody> <tr> <td>3</td> <td>= 4</td> <td>=</td> <td>32</td> <td></td> <td>4.5</td> <td>= 5.5</td> <td>= 22</td> </tr> <tr> <td>3.75</td> <td>= 5</td> <td>=</td> <td>26</td> <td></td> <td>4.72</td> <td>= 6.3</td> <td>= 20</td> </tr> <tr> <td>4/4.17</td> <td>= 5.4/5.1</td> <td>=</td> <td>24</td> <td></td> <td>5</td> <td>= 6.1</td> <td>= 20</td> </tr> </tbody> </table> <p>Non-selective, non-residual, translocated, postemergence herbicide. Effective on annual and perennial plants. Directed spray only. Add AMS at 8.5 to 17 lb/100 gal. Avoid contact to desirable species. Refer to label for adjuvant use. A4-7 A16 X1</p>			0.75 lb ae	1.125 lb ae			0.75 lb ae	1.125 lb ae	lb ae/gal	lb ai/gal	-----	fl oz/A	-----	lb ae/gal	lb ai/gal		3	= 4	=	32		4.5	= 5.5	= 22	3.75	= 5	=	26		4.72	= 6.3	= 20	4/4.17	= 5.4/5.1	=	24		5	= 6.1	= 20
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Goal (oxyfluorfen)	5 to 10 pt 1.6E 4 to 8 pt 2XL (1 to 2 lb)	Residual, preemergence or contact herbicide for control of broadleaf weeds including kochia and some grass weeds. <u>General</u> : Do not incorporate in soil. Apply POST with NIS at 0.25% v/v. Can be applied with a residual herbicide or as a split application. <u>Conifers</u> : Apply pre-transplant, POST or POST-directed prior to bud-break or after new foliage has hardened off. <u>Hardwoods</u> : Apply pre-transplant or POST-directed prior to bud-break. Spray only the base of deciduous trees and not over- the-top . If a non-dormant application is required, apply after new foliage has expanded and hardened off and NOT during periods of new growth. Avoid direct or indirect spray contact with foliage of deciduous trees.																																								
Karmex/Direx (diuron)	2.5 to 5 lb DF (2 to 4 lb)	Preemergence herbicide for plantings established at least one year. Apply as directed spray. Tolerance of labeled species is fair to very good. Do not use on light soil or in low, wet areas.																																								
Plateau (imazapic)	8 to 12 fl oz (2 to 3 oz ae)	Add MSO at 2 qt/A. Controls many broadleaf weeds including leafy spurge. Can spray in and around tree species. Do not use on new plantings or seedling trees. Fall treatment will kill lilac and will cause temporary yellowing of spruce candles. Higher rates will reduce grass stands. Refer to label for list of tolerant tree species. Use caution on trees not listed on label.																																								
Poast/Vantage (sethoxydim)	1.5 to 2.5 pt Poast 2 to 3 pt Vantage	Translocated, postemergence, non-residual herbicide for control of annual and perennial grasses. Spot spray or apply over-the-top of most woody species. Add oil additive at 1 qt/A.																																								
Princep / generic simazine	2 to 4 qt 2.2 to 4.4 lb DF (2 to 4 lb)	Use only on tree plantings at least three years old. Preemergence herbicide that is most effective on annual broadleaf weeds. For adequate annual grass control apply with a preemergence, residual grass herbicide. Apply in fall or spring in full or split-rate applications. Use high rate in fine textured soils. Refer to label for list of registered tree species.																																								
Stinger / generic clopyralid	0.25 to 0.67 pt (0.1 to 0.25 lb ae)	Safe to only some conifer species. Translocated, postemergence, broadleaf herbicide. Effective on weeds in the legume, smartweed (polygonum) and sunflower (composite) families. Provides excellent control of Canada thistle and knapweeds. Apply to actively growing weeds.																																								
Stomp Pendulum (pendimethalin)	2 to 4 qt 3.3 to 6.6 lb WDG (2 to 4 lb)	Preemergence herbicide for residual control of annual grasses and some small-seeded broadleaf weeds. Apply before bud break to avoid potential growth suppression. Apply with preemergence broadleaf herbicide for broad spectrum annual weed control.																																								
Treflan / generic trifluralin	1 to 2 pt (0.5 to 1 lb) 80 lb 5G (4 lb)	Apply PPI for new plantings or established trees. Gives season-long control of many annual grasses and some broadleaf weeds. Does not control weeds in the sunflower, legume or mustard family. Poor perennial weed control but may suppress field bindweed. Cultivation may be required for broadleaf weed control the first season. Apply with a residual preemergence broadleaf herbicide for broad-spectrum weed control.																																								
2,4-D amine	1 to 2 qt 4EC/SL (1 to 2 lb ae)	Translocated, postemergence, broadleaf herbicide. Directed application only. Used to reduce infestations of perennial weeds. Broadleaf plants and deciduous trees very sensitive. Avoid drift to desirable species. Use only amine formulations. Use low pressure, coarse spray droplets and apply only in calm weather.																																								

TOTAL VEGETATION WEED CONTROL

Herbicides should be applied to bare soil to improve herbicide performance. Add glyphosate to kill existing vegetation if present. Initial high rates of a residual herbicide or combination of residual herbicides followed by treatment in subsequent years at rates of 1/3 to 2/3 the initial rate will give satisfactory extended control. For short term bare-ground control, non-residual herbicides can be applied several times per year. General precautions when using soil sterilant are:

1. Do not move treated soil and avoid applying where wind or water will move the treated soil.
2. Avoid spray drift and reduce drift potential by applying during lower wind and temperature, reducing spray pressure, and selecting nozzles that produce larger droplets.
3. Do not apply where roots of desirable vegetation may extend into the treated area.
4. Be familiar with and know the risks of the product to be applied.
5. Use a combination of herbicides with different modes of action to avoid resistant weeds.

Herbicide	Product/A (lb ai/A)	Remarks		
Roundup / generic glyphosate	Up to 1.5 lb ae See Remarks.	lb ae/gal	lb ai/gal	0.75 lb ae ----- fl oz ----- 1.125 lb ae 1.5 lb ae
		3 = 4 =	= 32	48 64
		3.75 = 5 =	= 26	38 52
		4/4.17 = 5.4/5.1 =	= 24	36 48
		4.5 = 5.5 =	= 22	32 44
		4.72 = 6.3 =	= 20	30 40
		5 = 6.1 =	= 19	29 38
		Non-selective, non-residual , translocated herbicide. Effective on annual and perennial grass and broadleaf plants. Add 2,4-D or dicamba for broad-spectrum weed control. A4-6 A16		
Frequency (topramazone)	Up to 4 fl oz (0.089 lb)	Selective, residual , translocated herbicide. Add MSO at 2 pt/A and AMS at up to 3 lb/A. For annual broadleaf and grass weeds. Some perennial grasses are tolerant. Apply with other herbicides registered for total vegetation weed control. Refer to label for control herbicides.		
Ignite 280 (glufosinate)	3 to 5 pt (0.88 to 1.46 lb)	Non-selective, non-residual contact herbicide for use in non-crop and farmsteads. Use 4 fl oz/gal for spot application. Apply with AMS at up to 3 lb/A. A16		
Karmex / generic diuron	1 to 8 gal 5 to 15 lb (4 to 32 lb)	Refer to label for use in irrigation ditches. Higher rates needed for perennial grasses and broadleaf weeds. Deep rooted perennials will require retreatment. Long residual. A16		
Hyvar X Hyvar X-L (bromacil)	3 to 15 lb DF 0.75 to 6 gal L (2.4 to 12 lb DF 1.5 to 12 lb L)	Apply PRE or EPOST. Requires moisture for activation. Annual weeds Perennial weeds Woody plants Hyvar X 3 to 6 lb DF 7 to 15 lb 7 to 15 lb Hyvar X-L 1 to 3 gal/A 3 to 6 gal/A 3 to 6 gal/A Non-corrosive and non-volatile. Refer to label for tank-mix options. Bromacil can move horizontally in soil after application. Long residual. A16		
Krovar I / generic bromacil + diuron	6 to 16 lb DF (4.8 to 12.8 lb)	Apply PRE for control of annual grass and broadleaf weeds. Requires moisture for activation. Refer to label for registered tank-mixes. Bromacil can move horizontally in soil after application. Long residual. A16		
Landmark MP (sulfometuron & chlorsulfuron)	1 pkg/5 A to 1 pkg/2.5 A (1.5 to 3 oz)	Apply PRE to EPOST for broadleaf weeds. Will control/suppress leafy spurge. May be applied with Krovar I DF or Hyvar X to control ALS resistant weeds. Long residual. A16		
Oust XP (sulfometuron)	2 to 4 oz DF (1.5 to 3 oz)	Use high rate in high moisture areas except in residential properties. Will control leafy spurge at 3 oz/A. Do not spray near water. Long residual. A16		
paraquat RUP	2 to 2.7 pt (0.75 to 1 lb)	Non-selective, non-residual , contact herbicide. Controls only top-growth of perennial species. Add NIS and repeat application as necessary. Avoid drift and contact with desirable species.		
Plateau (imazapic)	8 to 12 fl oz (2 to 3 oz ae)	Add MSO at 2 pt/A. Controls many broadleaf weeds including leafy spurge. May use up to 12 fl oz in combination with Arsenal, Karmex/generics, Roundup/generics, Oust, Sahara, and other total vegetation control herbicides. A16 T12		
Pramitol 25E (prometon)	5 to 10 gal (10 to 15 lb)	Use 5 to 7.5 gal/A for annual and susceptible perennial weeds and 7.5 to 10 gal/A for hard-to-kill perennial weeds. Apply before weeds emerge or EPOST. Long residual. A16		
Spike 20P (tebuthiuron)	3.75 to 20 lb 20P 1.25 to 5 lb 80DF (1 to 4 lb)	For long-term woody plant and some broadleaf weed control. Avoid application in areas with surface or high water tables. Do not exceed 4 lb ai/A in a three year period. See label for specific species controlled and grazing and haying restrictions. Long residual. A16		
Sahara (imazapyr & diuron)	3 to 4 A/copack or 6.5 to 13 lb DF (0.5 to 1 lb ae & 4 to 8 lb)	Provides residual PRE and POST control of annual weeds and POST control of perennial weeds. Apply Sahara POST with NIS at 0.25% v/v or MSO-type oil at 1.5 to 2 pt/A + UAN at 2 to 3 pt/A. Can be tank-mixed with Banvel/generics, Ignite, Garlon, Roundup/generics, Hyvar X, Krovar, and Oust. Do not apply with 2,4-D due to reduced weed control. Long residual. A16		
Throttle (chlorsulfuron & sulfometuron & sulfentrazone)	12.5 oz (1.125 oz & 2.25 oz & 6 oz)	Provides residual PRE and POST control of annual weeds and POST control of perennial weeds. Long residual. A16		

TROUBLESOME WEEDS IN PASTURE, RANGELAND, AND NONCROPLAND

Weed	Herbicide	Product/A	Remarks and Paragraphs
Buckbrush/ West. snowberry	2,4-D amine or ester Cimarron X-tra* + NIS Chaparral	2 to 3 qt 4EC/SL 2 oz DF + 0.5% v/v 2 to 3 oz	Apply 2,4-D in spring only. Apply anytime during the growing season. Apply in spring to early summer. The addition of 2,4-D increases control at lower use rates.
Baby's breath	Escort* + Banvel* + NIS	0.3 to 0.6 oz DF + 1 pt + 0.25% v/v	Best when applied from bolting to pre-flower.
Black henbane	Escort* + NIS Banvel* or Tordon*	0.5 to 1 oz DF + 0.5% v/v 1 to 3 pt	Apply herbicides during rosette to early flower. Tordon at 1 to 2 pt: Mix with 2,4-D at 1 to 2 pt/A.
Burdock	2,4-D amine or ester Cimarron X-tra* + NIS Banvel*	1 qt 4EC/SL 0.25 to 0.5 oz DF + 0.5% v/v 1 pt	Early summer prior to flowering.
Curly dock	Cimarron X-tra* + NIS Banvel* Escort* + NIS Starane 1.5/2.8EC/40DG Tordon + 2,4-D RUP	0.25 to 0.5 oz DF + 0.5% v/v 0.5 to 1 pt 0.1 oz + 0.5% v/v 0.67 pt / 0.35 pt / 5 oz 0.5 to 1 pt + 1 to 2 pt 4EC/SL	Early spring to bolting is best. Herbicides will control curly dock when treated later in the summer but will need higher rates.
Dame's rocket	2,4-D or MCPA + NIS Escort* or Telar* + NIS	1 to 1.5 pt + 0.25% v/v 1 oz + 0.5% v/v	Apply in fall to rosette or early spring prior to bolting. Avoid spraying tree bark or foliage.
Foxtail barley	Plateau + MSO + 28% UAN	8 to 12 fl oz + 1.5 pt + 1 qt	
Goldenrod	2,4-D amine or ester Cimarron X-tra* + NIS Escort* + NIS Tordon + 2,4-D RUP	3 to 6 pt 4EC/SL 1 oz DF + 0.5% v/v 0.33 to 0.5 oz + 0.5% v/v 1 pt + 1 qt 4EC/SL	Mid-June through flowering when plants are not stressed.
Gumweed	2,4-D amine or ester Cimarron X-tra* + NIS Escort* + NIS	1.5 to 2 pt 4EC/SL 1 oz DF + 0.5% v/v 1 oz + 0.5% v/v	Early spring when plants are not stressed.
Halogeton	2,4-D amine or ester Escort* + NIS Plateau + MSO + 28% UAN	1 to 2 pt 4EC/SL 0.75 oz DF + 0.5% v/v 1 to 3 oz + 1.5 pt + 1 qt	2,4-D: Apply very early in spring prior to flowering. Escort: Apply to actively growing plants. Apply PRE to POST. Use higher rates for POST.
Hoary cress	Escort* or Telar* + NIS	1 oz + 0.25% v/v	Apply in spring prior to flowering. Difficult-to-control perennial requiring followup treatments.
Houndstongue	2,4-D amine or ester Escort* + NIS Plateau + MSO + 28% UAN	2 pt 4EC/SL 1 to 2 oz + 0.5% v/v 8 to 12 oz + 1.5 pt + 1 qt	2,4-D: Apply to 1 st year plants from May to June. Met: Very effective through the growing season. Plateau: Controls plants applied PRE and POST.
Mint	Cimarron X-tra* + NIS Banvel* + 2,4-D + NIS Escort* + NIS Tordon + 2,4-D RUP	1 oz DF + 0.5% v/v 1 pt + 1 qt 4EC/SL + 0.25% v/v 1/3 to 1/2 oz + 0.5% v/v 1 pt + 1 qt 4EC/SL	Apply mid-June through flowering when plants are not stressed.
Poison ivy	Crossbow Garlon 3A or 4	1.5 gal 3 to 4 pt or 2 to 3 pt	Apply to plants actively growing.
Prick. pear cactus	Tordon RUP	2 pt	Apply late-spring to early summer.
Ragweed	Cimarron X-tra* + NIS Tordon + 2,4-D RUP	0.25 oz DF 1 pt + 1 qt 4EC/SL	Apply mid to late summer.
Sagebrush, fringed	2,4-D ester Cimarron X-tra* + NIS Tordon RUP	2 to 4 pt 4EC/SL 1 oz DF 1 to 2 pt	Best when applied in May. Plants should be leafed out and growing in good moisture conditions.
Sagebrush	2,4-D ester	2 to 4 pt 4EC/SL	
Sagewort, Green	2,4-D ester Tordon + 2,4-D RUP	4 pt 4EC/SL 1 pt + 1 qt 4EC/SL	
Swamp smartweed	Banvel* Escort* + NIS Tordon + 2,4-D RUP Weedmaster*	0.5 to 1 pt 0.1 oz + 0.25 to 0.5% v/v 1 pt + 1 qt 4EC/SL 1 pt	Apply to plants 1 to 4 inches tall. Apply in mid to late summer.
Trees, volunteer	Crossbow Tordon+2,4-D+Remedy RUP	2% solution or 2 gal/A 2% or 1 pt + 1 qt 4EC/SL + 1 pt	Add NIS at 0.5% v/v. Apply after tree leaves have fully expanded.
Wild licorice	2,4-D amine or ester	1 to 2 pt 4EC/SL	Apply in early June when plants are not stressed.

* Or generic equivalent

TROUBLESOME WEEDS IN CROPLAND AND OTHER AREAS

Weed	Herbicide	Product/A	Remarks and Paragraphs
Alfalfa	2,4-D + Banvel* Stinger* or Curtail*	2 pt 4EC/SL + 0.5 pt 0.67 pt or 4 pt	Roundup / generics (2 to 4 pt/A) is less effective.
Buffalobur	Banvel*	0.5 pt	Cobra, 2,4-D, MCPA, and Pursuit are less effective.
Cleavers/Catchweed bedstraw	Starane* 1.5/2.8EC/40DG Affinity* Orion	0.67 pt / 0.35 pt / 5 oz DF or SG - See label for rate. 17 oz	Ignite 280 is less effective. Apply Affinity and Orion with NIS at 0.25% v/v.
Cattail	Roundup* (only 4 lb ae/gal no adjuvant formulations) Arsenal*	4.5 pt of 4 lb ae/gal conc. 2 to 4 pt (1% v/v solution)	Add NIS (approved) at 0.5% v/v. Apply at early to full bloom stage (late July to mid August). A4 A16 Apply to cattail with green foliage/after leaf elongation.
Curly dock	Stinger* or Curtail* Most SU herbicides	0.67 pt / 2 pt See label for rates.	Stinger/Curtail has crop rotation restrictions. Apply SUs with NIS at 0.25 to 0.5% v/v.
Common milkweed	Roundup* Express* + 2,4-D + Banvel*	2% 0.33 oz DF + 0.75 pt + 2 fl oz	Glyt - Suppression only. Will require retreatment. A4 A16 Exp+2,4-D+Banvel - Apply high rates for spot treatment.
Dandelion	2,4-D amine or ester Stinger* Banvel* Express* + NIS Roundup* Callisto or Impact or Laudis	2 to 4 pt 4EC/SL Refer to premix label. 0.5 pt. Apply with 2,4-D DF or SG - See label for rate. 1 to 3 lb ae 3 fl oz or 0.75 fl oz or 3 fl oz	2,4-D - Best control when applied in fall. Stinger - Apply premixes - Curtail and WideMatch. Banvel - Residue may injure next crop to be planted. Express - Partial control. Apply with 2,4-D. Roundup - Best control when applied in fall. Callisto/others - Only partial control. Add oil adjuvant.
Equisetum (Horsetail) (Scouring rush)	MCPA Permit Python Remedy/Garlon Glean* or Oust*	1 qt/A 4EC/SL 1.33 oz DF + MSO 1.33 oz DF + MSO 2 qt 3 oz DF + adjuvant	Glyphosate is less effective. Retreatment necessary. Permit - Apply two applications each at 1.33 oz/A. Python - Apply with NIS or oil adjuvant PRE or POST. Remedy/Garlon and MCPA - Apply fall or spring. Telar and Oust - Will result in total vegetation control.
False chamomile	Bronate* Most SU herbicides Orion Roundup*	1 pt 4EC See label + adjuvant 17 oz 2 pt of a 3 lb ae/gal conc.	Bronate - Plants should be <4 inches tall. SU herbicides - Add NIS at 0.25% v/v. Add NIS at 0.25% v/v. Roundup - Avoid spraying desirable vegetation. A4
Flax, volunteer	Flexstar/Reflex Paramount Pursuit + Sencor* (PRE) Starane* 1.5/2.8EC/40DG Affinity* Express* + 2,4-D Pulsar + MCPA ester	0.5 to 0.75 pt + oil adjuvant 0.33 oz DF + MSO adjuvant 1 to 2 fl oz + 0.375 0.67 pt / 0.35 pt / 5 oz DF or SG - See label for rate. DF or SG + 0.75 pt 4EC/SL 8.3 fl oz + 8.3 fl oz	Flexstar/Reflex - Add oil adjuvant at 1% v/v. Paramount - Add MSO adjuvant at 1.5 pt/A. Add recommended adjuvants. Starane - No adjuvant needed. Affinity - Add NIS at 0.25% v/v. Express - Add NIS at 0.25% v/v. Apply to flax <4 inches tall.
Hemp dogbane	2,4-D + Banvel* Roundup*	1 to 2 pt 4EC/SL + 1 pt 2% v/v	Banvel at 2 pt/A will injure some crops planted the next year. A4 A16
Horseweed (Marestail)	2,4-D Callisto or Impact or Laudis FirstRate Hornet Python Spartan Harmony* Valor	1 to 2 pt 4EC/SL 3 fl oz, 0.75 fl oz, 2 to 3 fl oz 0.3 oz WDG + adjuvant 3 to 4 oz WDG + adjuvant 1 oz WDG 3 to 6 fl oz DF or SG - See label for rate. 2 to 3 oz WDG	2,4-D (preplant) to some labeled crops is effective. Roundup, atrazine, paraquat are less effective. Pursuit is not effective. Most herbicides listed have rotational crop restrictions. Follow label guidelines. PRE control.
Nightflowering catchfly	Affinity* Harmony* Huskie (not confirmed)	DF or SG - See label for rate. DF or SG - See label for rate. 15 fl oz	Add NIS at 0.25% v/v. Add NIS at 0.25% v/v. Huskie also controls other cockle species.
Sowthistle (Ann. or perennial)	Cimarron X-tra* Ally* Express*	0.25 to 0.5 oz + 1 to 2 pt 1/10 oz DF + adjuvant DF or SG - See label for rate.	2,4-D, Banvel, Curtail, and Roundup are less effective. Add NIS at 0.25% v/v.
Waterpod	2,4-D, Pursuit or SUs	See label.	See Pursuit label for crop rotation restrictions.
Wild cucumber	Banvel* Roundup*	0.5 to 1 pt 0.38 to 0.75 lb ae	Banvel may injure or kill trees. Mechanical control or handweed is best. Banvel may injure trees. A4
Yellow nutsedge	Permit Basagran (sequential apps)	0.67 to 1.33 oz DF+adjuvant 1.5 pt fb 1.5 pt + oil adjuvant	Pursuit, Dual, Roundup are less effective. Permit may injure crops planted the following years.

* Or generic equivalent