

Recommended Terrestrial Invasive Species Treatment Timing

*****These are recommendations based off of our practices, and are in no way ment to be an indorsement of spesific products or companies*****

Please reference the joint DNR/MNFI treatmentguides for each invasive species to determine the best method, chemical and treatment ratio

APPLICATION AND SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Basal Bark: Invasive Woody Plants			Optimal	Optimal	Optimal	Optimal			Optimal	Optimal	Optimal	Possible
Foliar spray: Cool-season Grasses/ Weeds	Possible	Possible	Optimal	Optimal	Optimal							Possible
Foliar spray: Garlic Mustard	Possible	Possible	Optimal	Optimal	Optimal							Possible
Foliar spray: Japanese Knotweed**						Possible	Optimal	Optimal	Optimal			
Foliar spray: Swallow-wort, spp.				Possible	Optimal	Optimal	Optimal	Optimal				
Foliar spray: Spotted Knapweed				Possible	Optimal	Optimal						
Foliar Spray: Phragmites/ narrowleaf cattail							Possible	Optimal	Optimal	Possible		
Foliar Spray: Purple Loosestrife						Optimal	Optimal	Possible				
Foliar Spray: Reed Canary Grass				Optimal	Optimal	Possible	Possible	Possible	Possible	Possible	Optimal	
Cut stump trea: Invasive Shrubs	Optimal	Optimal	Possible						Possible	Optimal	Optimal	Optimal

Optimal treatment times
Possible treatment times

Herbaceous = Plant species that does not have a woody stalk and isn't a grass.

Woody = Plant species with a woody stalk, think shrubs and trees.

**Cut and bag removed at the start of JUN, with foliar spraying to follow six weeks later. Removal of cut materials is VERY important to prevent regrowth of cut materials.

Application	Species Treated	Brand Name	Herbicide	Mix	Mix ratio	Surfactant/Carriers	Dye
Basal Bark	Woody Species	Triclopyr 4	Triclopyr	Water	4 parts oil (vegetable oil is sufficient) to one part herbicide	Oil Carrier	Bas-oil dye
Cut Stump	Larger trees/shrubs	Vastlan	Triclopyr - Aquatic Safe	Water	1/2 herbicide 1/2 water - cut stump only	Cygnets Plus	High-light, Cygnets Select, or any herbicide specific dye
Foliar Spray	Herbaceous weeds	Vastlan	Triclopyr - Aquatic Safe	Water	4oz Vastlan, 1 oz surfactant per 1gal water	Cygnets Plus	High-light, Cygnets Select, or any herbicide specific dye
Foliar Spray	< 1/2" diameter shrubs	Vastlan	Triclopyr - Aquatic Safe	Water	3oz Vastlan, 1oz Vanquish, 1oz surfactant per 1 gal water	Cygnets Plus & Vanquish (herbicide)	High-light, Cygnets Select, or any herbicide specific dye
Foliar Spray	Foliar woody control	Triclopyr 4	Triclopyr	Water	2 -3oz Triclopyr 4, 1 oz cygnets per one gal water	Cygnets Plus	High-light, Cygnets Select, or any herbicide specific dye
Foliar Spray	Non-selective, recommended for grassy species	Aquaneat	Glyphosate	Water	3oz Aquaneat, 1oz cygnets per 1 gal water	Cygnets Plus	Cygnets Select

<https://mnfi.anr.msu.edu/invasive-species/best-control-practice-guides.cfm>

Application Method tips -

Foliar Spraying

Keep droplets as large as possible to reduce drift
 Spray when wind gusts are under 10mph, but ideally over 0mph
 Try not to spray on days with a possibility of rain
 If you must spray be sure to finish with enough time for the herbicide to dry
 Do not spray if there is a heavy morning dew

Cut Stump

Cut stumps as close to the ground as possible, no higher than 3 inches above the ground should be left
 Cut stumps should be treated in temps above 32F
 Stumps should be treated within 5 minutes of cutting or re-cut