

Forest Preserves of Cook County Species Treatment List

Woody Plants Common Name	Scientific Name	Treatment Options	Treatment Season
Tree of Heaven	<i>Alianthus altissima</i>	<ul style="list-style-type: none"> • Basal bark application, use 20% Element 4 with oil (better option) • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution; will need to treat suckers 	Fall/Winter (Dormant season) – cut stem, basal bark
Alder, European black	<i>Alnus glutinosa</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution • Basal bark application, use 20% Element 4 with oil • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	Fall/Winter (Dormant season) – cut stem, basal bark Spring/Summer – foliar spray
Barberry, Japanese	<i>Berberis thunbergii</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray small plants with a 4% Element 3A with water solution, use surfactant; avoid spraying where desirable plants occur 	Fall/Winter (Dormant season) – cut stem Spring/Summer – foliar spray
Bittersweet, Oriental	<i>Celastrus orbiculatus</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	Fall/Winter (Dormant season) – cut stem Summer/Fall – foliar spray

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Dogwood, Gray	<i>Cornus racemosa</i>	<ul style="list-style-type: none"> • Cut and treat stumps with a 20% Element 4 with oil solution or 25-50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
Olive, Autumn	<i>Elaeagnus umbellata</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Basal bark application, use 20% Element 4 with oil • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem, basal bark</p> <p>Spring/Summer – foliar spray</p>
Burning Bush (non-native)	<i>Euonymus alatus</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Summer/Fall – foliar spray</p>
Honeysuckle, Asian (various non-native)	<i>Lonicera maackii</i> <i>Lonicera tartarica</i> ,	<ul style="list-style-type: none"> • Cut and treat stems with a or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Round-Up Pro with water solution or use surfactant 	<p>Fall/Winter (Dormant season) – cut stem, basal bark</p> <p>Spring/Summer – foliar spray</p>

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Poplar, white	<i>Populus alba</i>	<ul style="list-style-type: none"> • Basal bark application, use 20% Element 4 with oil (better option) • Cut and treat stems with a 20% Element 4 with oil solution, will need to treat suckers • Foliar spray resprouts or small plants with a 2% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
Aspen	<i>Populus tremuloides</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution, will need to treat suckers • Basal bark application, use 20% Element 4 with oil • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
Buckthorn, Common	<i>Rhamnus cathartica</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Basal bark application, use 20% Element 4 with oil • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem, basal bark</p> <p>Spring/Summer – foliar spray</p>
Buckthorn, Glossy	<i>Rhamnus frangula</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>

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Locust, Black	<i>Robinia pseudoacacia</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution or 1% Transline or 0.5% Milestone, will need to treat suckers • Basal bark application, use 20% Element 4 with oil • Foliar spray resprouts or small plants with 0.5% Transline or 0.25% Milestone use surfactant 	<p>Fall/Winter (Dormant season) – cut stem, basal bark</p> <p>Spring/Summer – foliar spray</p>
Multiflora rose	<i>Rosa multiflora</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 2.5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
Elm, Siberian	<i>Ulmus pumila</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
Highbush Cranberry, European	<i>Viburnum opulus</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 2.5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>

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Viburnums (non-native)	<i>Viburnum dentatum</i> <i>Viburnum recognitum</i>	<ul style="list-style-type: none"> • Cut and treat stems with a 20% Element 4 with oil solution or 50% Glyphosate with water solution • Foliar spray resprouts or small plants with a 2.5% Element 3A with water solution, use surfactant 	<p>Fall/Winter (Dormant season) – cut stem</p> <p>Spring/Summer – foliar spray</p>
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Herbaceous Plants Common Name	Scientific Name	Treatment Options	Treatment Season
Garlic Mustard	<i>Alliaria petiolata</i>	<ul style="list-style-type: none"> • Foliar spray 1st year rosettes with a 2% solution of Element 3A or Round-Up Pro or Aquaneat when native plants are dormant, use surfactant • Pull 2nd year plants before seed pods form or treat with 3A, or top-down mow with a brush cutter if timed right. 	<p>Early Spring/Late Fall</p> <p>Late Spring/Early Summer</p>
Spotted knapweed	<i>Centaurea maculosa</i>	<ul style="list-style-type: none"> • Foliar spray with 0.5% Transline or 0.25% Milestone, use surfactant 	Summer
Thistle, Canada	<i>Cirsium arvense</i>	<ul style="list-style-type: none"> • Cut down stems to the ground when flowering • Cut off flower heads so seeds cannot be distributed, if small population present • Foliar spray rosettes with 0.5% Transline or 0.25% Milestone; or a 2% solution of Element 3A or Round-Up Pro or Aquaneat, use surfactant 	<p>Early Summer</p> <p>Early Spring/Late Fall, can be year round</p>
Thistles, Biennial (non-native) Bull thistle Nodding thistle	<i>Cirsium spp</i>	<ul style="list-style-type: none"> • Cut down stems to the ground when flowering • Cut off flower heads so seeds cannot be distributed, if small population present • Foliar spray 1st year rosettes with 0.5% Transline or 0.25% Milestone; or a 2% solution of Element 3A or Round-Up Pro or Aquaneat, use surfactant 	<p>Early Summer</p> <p>Early Spring/Late Fall, can be year round</p>

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Lily-of-the-valley	<i>Convallaria majalis</i>	<ul style="list-style-type: none"> Foliar spray with 5% Aquaneat or Round-Up Pro (glyphosate), use surfactant. Do not use Element 3A, not effective on monocots. 	Spring
Crown vetch	<i>Coronilla varia</i>	<ul style="list-style-type: none"> Foliar spray with 0.5% Transline or 0.25% Milestone, use surfactant 	Spring/Summer
Teasel, Common Teasel, Cutleaf	<i>Dispacus sylvestris</i> <i>Dispacus laciniatus</i>	<ul style="list-style-type: none"> Foliar spray rosettes with 2-3% solution of Element 3A or Round-Up Pro or Aquaneat; or once bolting use 0.5% Transline or 0.25% Milestone, use surfactant Important to get each rosette as missed plants will thrive Cut off flower heads to prevent seed from dispersing, may reflower 	Early Spring Summer
Leafy spurge	<i>Euphorbia esula</i>	<ul style="list-style-type: none"> Difficult to control. Foliar spray with 10% Aquaneat or Round-Up Pro (glyphosate) 	Spring-Fall
Japanese knotweed	<i>Fallopia japonica</i>	<ul style="list-style-type: none"> Best way to treat this is to remove all the previous years' growth during the dormant season. Then early in the season when it is small, foliar treat with 0.25% Milestone, use surfactant. It gets tall quick. Can still treat with Milestone when it's big, just not going to be as effective. Can be cut in the growing season, then retreat small resprouts, but need to be careful with the cuts which can propagate vegetatively. 	Fall (Dormant Season) – cut plants and remove Spring/Summer – foliar spray Summer – cut and remove plants, foliar spray of resprouts
Dame's rocket	<i>Hesperis matronalis</i>	<ul style="list-style-type: none"> Foliar spray with 2-3% Element 3A or Round-Up Pro (glyphosate), use surfactant Hand pull or cut and remove or mow, biennial plant 	Spring/Early Summer

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Yellow iris	<i>Iris pseudacorus</i>	<ul style="list-style-type: none"> Foliar spray with 2-3% Aquaneat or Round-Up Pro (glyphosate), use surfactant. Do not use Element 3A, not effective on monocots. 	Summer. Easiest to ID once it has flowered
Birdsfoot trefoil	<i>Lotus corniculatus</i>	<ul style="list-style-type: none"> Foliar spray with 0.5% Transline or 0.25% Milestone; or a 2% solution of Element 3A, use surfactant 	Summer/Fall
Purple Loosestrife	<i>Lythrum salicaria</i>	<ul style="list-style-type: none"> Spray foliage with a 2% solution of Aquaneat solution or Element 3A, use surfactant If spraying with Aquaneat (glyphosate) cut off flowers, bag and remove from the site (to reduce future seed source) 	Spring/Summer Summer
Parsnip, Wild	<i>Pastinaca sativa</i>	<ul style="list-style-type: none"> Spot spray foliage with 2.5% solution of Element 3A or Round-Up Pro or Aquaneat, use surfactant. Do not use Transline or Milestone, not effective. 	Growing season
Reed Canary Grass	<i>Phalaris arundinacea</i>	<ul style="list-style-type: none"> Spray young plants when just emerging in spring with a 3% solution of Aquaneat, use surfactant If site is high quality with forbs and sedges, spray with a 2% solution of Poast or Intensity. Use 1% if < 6" or 2% if greater than 6", use methylated seed oil (MSO) as surfactant Not necessary to get 100% coverage with herbicide as plants are rhizomatous and share root systems Spray again in late fall after native plants are dormant, use surfactant Cut off flowering heads, bag and remove from site if producing seed; can be cut/mowed early and will not reflower 	Early Spring Late Fall Early Summer

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Common Reed	<i>Phragmites australis</i>	<ul style="list-style-type: none"> • Spray with a 2% Aquaneat solution, or wick with 25% Aquaneat, use surfactant • Not necessary to get 100% coverage with herbicide as plants are rhizomatous and share root systems • Cut off flower heads so seeds cannot be distributed, if small population is present 	Summer/Fall Early Fall
Sweet Clover, White Sweet Clover, Yellow	<i>Melilotus alba</i> <i>Melilotus officinalis</i>	<ul style="list-style-type: none"> • Spray 1st year plants with 2-3% solution of Element 3A or Round-Up Pro or Aquaneat, or 0.5% Transline or 0.25% Milestone, use surfactant • Pull or cut 2nd year plants while blooming 	Spring Late Spring/Early Summer
Miscanthus grasses	<i>Miscanthus</i> spp	<ul style="list-style-type: none"> • Foliar spray with 2-3% Aquaneat or Round-Up Pro (glyphosate), use surfactant 	Spring-Fall
Lesser Celandine	<i>Ranunculus ficaria</i>	<ul style="list-style-type: none"> • Foliar spray with a 3% solution of Aquaneat when native plants are dormant, use surfactant. Do not use Element 3A, not effective. 	Early spring
Cattail, Narrow-leaved	<i>Typha alternifolia</i>	<ul style="list-style-type: none"> • Foliar spray with a 2% Aquaneat solution, or wick with 25% Aquaneat, use surfactant • Cut off flower heads so seeds cannot be distributed, if small population is present 	Growing season Summer