

New Jersey Invasive Species Strike Team - Herbicide Use Suggestions

Click [this link](#) for species-specific recommendations

Sources utilized include:

[Gover and Wagoner - Natural Resource Management Factsheet: Herbicide Selection and Use](#)

[Gover - Use and Characteristics of Herbicides for Non-Crop Weed Control](#)

| Percentages (volume/volume) | | | | | | | | | | | | | |
|-----------------------------|----------------------------|-------------------------|------------------------------|------------------------------|-------------------------|---------------------------|--------------------|---------------------------|-------------------------|-------------------------|-------------------|-------|---------------------------------|
| General Application Method | NJISST Method ID | Glyphosate ¹ | Triclopyr amine ² | Triclopyr ester ³ | Clopyralid ⁴ | Aminopyralid ⁵ | 2,4-D ⁶ | Proflaminate ⁷ | Quizalofop ⁸ | Surfactant ⁹ | Dye ¹⁰ | Water | Oil-based Diluent ¹¹ |
| Foliar Spray | FS-1 - 'General Mix A' | 3.75 | 2.50 | -- | -- | -- | -- | -- | -- | 0.50 | Blue | 93 | -- |
| Foliar Spray | FS-2 - 'General Mix B' | 3.00 | -- | -- | -- | -- | -- | -- | -- | 0.50 | Blue | 97 | -- |
| Foliar Spray | FS-3 - 'General Mix C' | 5.00 | -- | -- | -- | -- | -- | -- | -- | 0.50 | Blue | 95 | -- |
| Foliar Spray | FS-4 - 'Broadleaf Mix A' | -- | 2.50 | -- | -- | -- | -- | -- | -- | 0.50 | Blue | 97 | -- |
| Foliar Spray | FS-5 - 'Broadleaf Mix B' | -- | -- | 1.70 | -- | -- | 2.70 | -- | -- | 0.50 | Blue | 95 | -- |
| Foliar Spray | FS-6 - 'Tough Aster Mix A' | -- | -- | -- | 0.63 | -- | -- | -- | -- | 0.50 | Blue | 99 | -- |
| Foliar Spray | FS-7 - 'Tough Aster Mix B' | -- | -- | -- | -- | 0.27 | -- | -- | -- | 0.50 | Blue | 99 | -- |
| Foliar Spray | FS-8 - 'Grass Mix A' | -- | -- | -- | -- | -- | -- | -- | 0.38 | 0.50 | Blue | 99 | -- |
| Basal Bark | BB-1 | -- | -- | 25 | -- | -- | -- | -- | -- | -- | Red | -- | 75 |
| Cut Stump | CS-1 | 50 | -- | -- | -- | -- | -- | -- | -- | -- | Blue | 50 | -- |
| Cut Stump | CS-2 | -- | 50 | -- | -- | -- | -- | -- | -- | -- | Blue | 50 | -- |
| Cut Stump | CS-3 | -- | -- | 25 | -- | -- | -- | -- | -- | -- | Red | -- | 75 |
| Hack-and-Squirt | HS-1 | 50 | -- | -- | -- | -- | -- | -- | -- | -- | Blue | 50 | -- |
| Hack-and-Squirt | HS-2 | -- | 50 | -- | -- | -- | -- | -- | -- | -- | Blue | 50 | -- |
| Hack-and-Squirt | HS-3 | -- | -- | 25 | -- | -- | -- | -- | -- | -- | Red | -- | 75 |
| Pre-Emergent | PE-1 | -- | -- | -- | -- | -- | -- | * | -- | -- | * | * | -- |

| Mixing Quantities in Ounces to create 1 gallon of final mix | | | | | | | | | | | | | Final Mix = 128 ounces | |
|---|----------------------------|-------------------------|------------------------------|------------------------------|-------------------------|---------------------------|--------------------|---------------------------|-------------------------|-------------------------|-------------------|-------|---------------------------------|--|
| General Application Method | NJISST Method ID | Glyphosate ¹ | Triclopyr amine ² | Triclopyr ester ³ | Clopyralid ⁴ | Aminopyralid ⁵ | 2,4-D ⁶ | Proflaminate ⁷ | Quizalofop ⁸ | Surfactant ⁹ | Dye ¹⁰ | Water | Oil-based Diluent ¹¹ | |
| Foliar Spray | FS-1 - 'General Mix A' | 4.8 | 3.2 | -- | -- | -- | -- | -- | -- | 0.6 | Blue | 121 | -- | |
| Foliar Spray | FS-2 - 'General Mix B' | 3.8 | -- | -- | -- | -- | -- | -- | -- | 0.6 | Blue | 125 | -- | |
| Foliar Spray | FS-3 - 'General Mix C' | 6.4 | -- | -- | -- | -- | -- | -- | -- | 0.6 | Blue | 123 | -- | |
| Foliar Spray | FS-4 - 'Broadleaf Mix A' | -- | 3.2 | -- | -- | -- | -- | -- | -- | 0.6 | Blue | 125 | -- | |
| Foliar Spray | FS-5 - 'Broadleaf Mix B' | -- | -- | 2.2 | -- | -- | 3.5 | -- | -- | 0.6 | Blue | 123 | -- | |
| Foliar Spray | FS-6 - 'Tough Aster Mix A' | -- | -- | -- | 0.8 | -- | -- | -- | -- | 0.6 | Blue | 127 | -- | |
| Foliar Spray | FS-7 - 'Tough Aster Mix B' | -- | -- | -- | -- | 0.3 | -- | -- | -- | 0.6 | Blue | 127 | -- | |
| Foliar Spray | FS-8 - 'Grass Mix A' | -- | -- | -- | -- | -- | -- | -- | 0.5 | 0.6 | Blue | 127 | -- | |
| Basal Bark | BB-1 | -- | -- | 32.0 | -- | -- | -- | -- | -- | -- | Red | -- | 103 | |
| Cut Stump | CS-1 | 64.0 | -- | -- | -- | -- | -- | -- | -- | -- | Blue | 78 | -- | |
| Cut Stump | CS-2 | -- | 64.0 | -- | -- | -- | -- | -- | -- | -- | Blue | 78 | -- | |
| Cut Stump | CS-3 | -- | -- | 32.0 | -- | -- | -- | -- | -- | -- | Red | -- | 103 | |
| Hack-and-Squirt | HS-1 | 64.0 | -- | -- | -- | -- | -- | -- | -- | -- | Blue | 78 | -- | |
| Hack-and-Squirt | HS-2 | -- | 64.0 | -- | -- | -- | -- | -- | -- | -- | Blue | 78 | -- | |
| Hack-and-Squirt | HS-3 | -- | -- | 32.0 | -- | -- | -- | -- | -- | -- | Red | -- | 103 | |
| Pre-Emergent | PE-1 | -- | -- | -- | -- | -- | -- | * | -- | -- | * | * | -- | |

1: Accord [manufacturer's formulation typically contains 54% glyphosate] or equivalent; **2:** Garlon 3A [manufacturer's formulation typically contains 44% triclopyr ester] or equivalent; **3:** Garlon 4Ultra or equivalent [manufacturer's formulation typically contains 60% triclopyr amine] - *Note: Pathfinder II is a formulation of triclopyr ester that is ready-to-use without further mixing*; **4:** Transline [manufacturer's formulation typically contains 41% clopyralid] or equivalent; **5:** Milestone VM [manufacturer's formulation typically contains 41% aminopyralid] or equivalent; **6:** DMA 4 IVM [manufacturer's formulation typically contains 63% 2,4-D] or equivalent; **7:** ProClipse [manufacturer's formulation typically contains 65% proflaminate] or equivalent - *Note: *See label instructions for use of pre-emergent herbicide based upon site conditions*; **8:** Assure II [manufacturer's formulation typically contains 10% quizalofop] or equivalent; **9:** Surfactants typically utilized as 0.5% (v/v), but follow label directions for correct amounts - Note: Surfactants may or may not be approved for wetland applications, check label to determine site suitability; **10:** Hi-Light Blue, Basal Red or equivalents, follow label directions for correct amounts; **11:** Typically low-viscosity mineral oil, but other petroleum-based and natural oils may be utilized - *Note: Check labels to determine appropriate oil diluent*

Code Descriptions

Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%)

Foliar Spray: FS-2 (Glyphosate 3.00%)

Foliar Spray: FS-3 (Glyphosate 5.00%)

Foliar Spray: FS-4 (Triclopyr Amine 2.50%)

Foliar Spray: FS-5 (Triclopyr Amine 1.70%, 2,4-D 2.70%)

Foliar Spray: FS-6 (Clopyralid 0.63%)

Foliar Spray: FS-7 (Aminopyralid 0.27%)

Foliar Spray: FS-8 (Quizalofop 0.38%)

Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)

Cut Stump: CS-1 (Glyphosate 50%)

Cut Stump: CS-2 (Triclopyr Amine 50%)

Cut Stump: CS-3 (Triclopyr Ester 25%)

Hack-and-Squirt: HS-1 (Glyphosate 50%)

Hack-and-Squirt: HS-2 (Triclopyr Amine 50%)

Hack-and-Squirt: HS-3 (Triclopyr Ester 25%)

Pre-Emergent Spray: PE-1 (Proflumicetone - See Label Instructions)