







## BROADCAST TREATMENT:

Species	Rate	Spray Volume
<b>Cool-season Turf</b>		
Kentucky bluegrass, annual bluegrass, annual ryegrass, perennial ryegrass, tall fescue, red or fine leaf fescues, creeping bentgrass and colonial bentgrass (excluding golf greens and tees). Mixtures of cool-season species in non-cropland areas established for roadside vegetation management or for low maintenance. (Kentucky bluegrass, tall fescue, smooth bromegrass & orchardgrass)	3.25 to 4 Pints/Acre (1.2 to 1.5 fl. oz./ 1,000 sq. ft.)	10 to 220 Gallons/Acre (0.23 to 5.0 Gallons/ 1,000 sq. ft.)
<b>Warm-season Turf</b>		
Hybrid Bermudagrass, common Bermudagrass, centipedegrass*, zoysiagrass, bahiagrass and buffalograss.	2.75 to 3.25 Pints/Acre (1.0 to 1.2 fl. oz./ 1,000 sq. ft.)	10 to 220 Gallons/Acre (0.23 to 5.0 Gallons/ 1,000 sq. ft.)
*For centipedegrass use lower rates within specified range until turfgrass tolerance to injury can be determined. Do not apply this product to warm-season turfgrass during spring green-up or in the fall during the transition period between active growth and dormancy. <b>Dormant turf:</b> This product may be applied to fully dormant bermudagrass, fully dormant centipedegrass, fully dormant zoysiagrass, and fully dormant bahiagrass. <b>New York:</b> Only one application per year of this product is allowed. This product is not allowed to be sold, distributed or used in Nassau or Suffolk Counties.		

## SPOT TREATMENT:

### WITH HAND OPERATED SPRAYERS (INCLUDING BACKPACK SPRAYERS, COMPRESSION SPRAYERS, AND KNAPSACK SPRAYERS):

- Apply any time the emerged broadleaf weeds are actively growing.
- Calibration and proper application are essential when using this product.
- Uniform applications are essential when using this product. Over application or rates above those specified on this label including excessive overlaps of this product can cause turf injury.
- Hand-held techniques: Wands fitted with flat fan nozzle tips may be used with the appropriate technique. Spray wands fitted with flat fan tips should not be waved in a back-and-forth motion, or in a side-to-side motion, or in a swinging arm motion. Instead, the nozzle should be held stationary at the proper height. Side-to-side motions result in uneven coverage.
- Follow-up applications as spot treatments at a 30-day interval are suggested for more mature weeds, for dense infestations, and for adverse environmental conditions.
- **For cool-season turfgrass listed in Table 1:** Mix 1.2 to 1.5 fl. oz. of this product per one (1.0) gallon of water for treatment of approximately 1,000 sq. ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible.
- **For warm-season turfgrass listed in Table 1:** Mix 1.0 to 1.2 fl. oz. of this product per one (1.0) gallon of water for treatment of approximately 1,000 sq. ft of turfgrass. Apply any time the emerged broadleaf weeds are susceptible. For centipedegrass use lower rates within specified range until turfgrass tolerance to injury can be determined.

### Limitations on spot treatments for ornamental turfgrass:

Spot treatment is defined as a treatment area no greater than 1,000 sq. ft. per acre. The maximum application rate is 1.5 fl. oz. per 1,000 sq. ft. per application (0.25 lb. MCP-p acid equivalent per acre). The maximum number of spot treatments is limited to 2 per year with a minimum of 30 days between applications.

## TOUGH WEED CONTROL:

### IN INDUSTRIAL OR LOW MAINTENANCE AREAS:

In addition to weeds listed in Table 4, SURGE® Broadleaf Herbicide For Turf can be used for certain tough-to-control weeds. Mixed stands of Kentucky bluegrass, tall fescue, smooth bromegrass, orchardgrass and

reed canarygrass may be treated. Applications to non-cropland areas (roadsides and rights-of-way) are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Treatments of SURGE® Broadleaf Herbicide For Turf may injure or kill legumes including clovers (sweet, yellow, red, crimson, alsike, hop, white), lespedezas, trefoils and vetches.

Biennial and perennial weeds may require follow-up or sequential treatments.

Weed Types	Troublesome weeds such as:	Amount of product, pints/acre <sup>1</sup>	Spray Volume	When to Apply
Annual Broadleaf	ivyleaf morningglory, redroot pigweed, cocklebur, sunflower, velvetleaf (butterprint)	2.5 to 4.0 pints/acre	10 to 220 gal./Acre (0.23 to 5.0 gal. per 1,000 sq. ft.)	Spring or fall during active growth.
Biennial	thistle, musk thistle, common burdock	4.0 to 5.0 pints/acre	10 to 220 gal./Acre (0.23 to 5.0 gal. per 1,000 sq. ft.)	Spring or fall during seedling to rosette stage.
Perennial	Burclover, Canada thistle, field bindweeds, English daisy, hoary cress (whitetop), Veronica (corn speedwell), wild violet	4.0 to 5.0 pints/acre	10 to 220 gal./Acre (0.23 to 5.0 gal. per 1,000 sq. ft.)	Spring or fall during bud to bloom stage.

**Footnote 1:** Use the lower rate within the range specified for highly favorable plant growing conditions and when broadleaf weeds are less than 6 inches in height. Use the higher rate within the range specified for tall vegetation, dense canopies, weeds beyond the suggested growth stage, or during adverse conditions.  
**New York:** Only one application per year of this product is allowed. This product is not allowed to be sold, distributed or used in Nassau or Suffolk Counties.

## LIMITATIONS:

Use Site	Maximum Rate per Application	Maximum Number of Applications per Year	Minimum Interval Between Applications	Maximum Seasonal Rate
Ornamental turfgrass	4.0 pints/A (0.70 lb. 2,4-D ae/A) (0.25 lb. MCP-p ae/A) (0.11 lb. dicamba ae/A) (0.03 lb. sulfentrazone/A)	2	30 Days	8.0 pints/A (1.40 lb. 2,4-D ae/A) (0.50 lb. MCP-p ae/A) (0.22 lb. dicamba ae/A) (0.06 lb. sulfentrazone/A)
Sod farms	4.0 pints/A (0.70 lb. 2,4-D ae/A) (0.25 lb. MCP-p ae/A) (0.11 lb. dicamba ae/A) (0.03 lb. sulfentrazone/A)	2	21 Days	8.0 pints/A (1.40 lb. 2,4-D ae/A) (0.50 lb. MCP-p ae/A) (0.22 lb. dicamba ae/A) (0.06 lb. sulfentrazone/A)
Non-cropland: roadsides and rights-of-way	5.0 pints/A (0.88 lb. 2,4-D ae/A) (0.31 lb. MCP-p ae/A) (0.14 lb. dicamba ae/A) (0.038 lb. sulfentrazone/A)	2	30 Days	10.0 pints/A (1.75 lb. 2,4-D ae/A) (0.62 lb. MCP-p ae/A) (0.28 lb. dicamba ae/A) (0.074 lb. sulfentrazone/A)

ae = Acid Equivalent. For ornamental turfgrass only, do not exceed the maximum seasonal rate of 8.0 pints (1.40 lb. 2,4-D ae, 0.50 lb. MCP-p ae, 0.22 lb. dicamba ae, and 0.06 lb. sulfentrazone) per acre per season, excluding spot treatments. For non-cropland: Do not exceed the maximum seasonal rate of 10 pints (1.75 lb. 2,4-D ae/A), 0.62 lb. MCP-p ae/A, 0.28 lb. dicamba ae/A, and 0.074 lb. sulfentrazone) per acre per season.

### Spray volumes with ground equipment:

- For SURGE® Broadleaf Herbicide For Turf alone, a spray volume of 10.0 gallons per acre (gpa) is suggested.
- For tank mixtures of SURGE® Broadleaf Herbicide For Turf, spray volume of 20.0 gallons per acre is recommended or use the suggested spray volume of the companion product(s).



