

Herbicide Application Program

TEXAS

PRODUCT	ACTIVE INGREDIENTS									USE RATES		
	LB. 2,4-D A.E./GAL.	LB. MCPA A.E./GAL.	LB. MCPP-P A.E./GAL.	LB. TRICLOPYR ACID/GAL.	LB. DICAMBA A.E./GAL.	LB. FLAZASULFURON A.I./LB. FORMULATED PRODUCT	LB. PENOXSULAM/ GAL.	LB. CARFENTRAZONE/ GAL.	LB. SULFENTRAZONE/ GAL.	LB. QUINCLORAC ACID/GAL.	RATE /ACRE (COOL SEASON GRASSES)	RATE /ACRE (WARM SEASON GRASSES)
Avenue™ South Broadleaf Herbicide for Turfgrasses	0.53				0.15		0.06		0.06		2.7 - 6 pt.	3 - 5 pt.
Katana® Turf Herbicide						0.25					N/A	1.5 - 3 oz.
PowerZone® Broadleaf Herbicide for Turf		2.21	0.44		0.22		0.04				3.5 - 5 pt.	2 - 4 pt.
Q4® Plus Broadleaf Herbicide for Grassy & Broadleaf Weeds	0.88				0.10			0.06	0.75		7 - 8 pt.	5 - 7 pt.
SpeedZone® Broadleaf Herbicide for Turf	1.53		0.48		0.14		0.05				3 - 5 pt.	2 - 4 pt.
SpeedZone® Southern Broadleaf Herbicide for Turf	0.52		0.20		0.05		0.04				4 - 6 pt.	1.5 - 5 pt.
Surge® Broadleaf Herbicide for Turf	1.40		0.50		0.22			0.06			3.25 - 4 pt.	2.75 - 3.25 pt.
Trimec® 992 Broadleaf Herbicide	2.38		0.63		0.21						1.8 - 4 pt.	3 - 4 pt.
TZone™ SE Broadleaf Herbicide for Tough Weeds	1.75			0.50	0.20			0.06			3.25 - 4 pt.	2 - 2.25 pt.

PRODUCT	WEEDS CONTROLLED														
	DANDELION	CLOVER	CRABGRASS	NUTSEDGE	KYLLINGA	GOOSEGRASS	SPURGE	VIRGINIA BUTTONEED	POA ANNUA	HENBIT	WILDVIOLET	GROUND IVY	PLANTAIN	OXALIS (YELLOW WOODSORREL)	DOLLARWEED (PENNYWORT)
Avenue™ South Broadleaf Herbicide for Turfgrasses	★	★		↓			★	★*		★	★*	★*	★*	★	★
Katana® Turf Herbicide	★	★	★	★*	★		↓		★	★	★			★	
PowerZone® Broadleaf Herbicide for Turf	★	★					★	★		★	★	★	★	★	★
Q4® Plus Broadleaf Herbicide for Grassy & Broadleaf Weeds	★	★	★*	★*			★	★*		★	★*	★	★	★	★
SpeedZone® Broadleaf Herbicide for Turf	★	★				★	★	★		★	★	★	★	★	★
SpeedZone® Southern Broadleaf Herbicide for Turf	★	★					★	★		★	★	★	★	★	★
Surge® Broadleaf Herbicide for Turf	★	★		↓			★	★		★	★	★	★	★	★
Trimec® 992 Broadleaf Herbicide	★	★					★	★*		★		★	★	★	★
TZone™ SE Broadleaf Herbicide for Tough Weeds	★	★					★	★		★	★**	★	★	★	

★ = control, ↓ = suppression
 * Hard-to-control weeds. May require higher use rates and/or a second application within the rate range.
 ** For best results, apply in the spring when wild violets are blooming, or apply a late fall application followed by a spring application.

Weed Management Plans: The Key To Future Success

Herbicide resistance is forcing end-users to change the way they manage their turf. Discovery of new herbicide active ingredients is becoming increasingly rare. If we don't maximize the performance and usage life of what is available now, we could lose its efficacy in the future.

That's why a weed management plan is vital to our success. Creating and implementing a year-round weed control plan with a foundation of sound agronomic practices will help ensure we get the most out of our pesticide options.

A successful program includes:

- ★ Combination products with multiple modes of action
- ★ Herbicides that offer broad-spectrum control with one application
- ★ Herbicide rotation
- ★ Proper application timing and use rates
- ★ Annual evaluation of the weed management plan



Program 1: Recommended Application - Non-Overseeded Bermuda/Zoysia

APP#	PRODUCT	MOA	WSSA CODE	RATE PER ACRE	PRE/POST	TIMING	TARGETED WEEDS
1	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	Crabgrass
2	Katana® Turf Herbicide*	ALS Inhibitor	2	2.5 - 3 oz.	POST	March	<i>Poa annua</i> , Broadleaf Weeds
3	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	May	PRE-Crabgrass, PRE-Goosegrass
	SpeedZone® Broadleaf Herbicide for Turf**	Synthetic Auxins PPO Inhibitor	4 14	2 - 4 pt.	POST		Broadleaf Weeds
4	SpeedZone® Broadleaf Herbicide for Turf**	Synthetic Auxins PPO Inhibitor	4 14	1.47 fl. oz./ 1,000 ft ²	Spot Treatment	June / August	Goosegrass 2 spot applications 30 days apart
5	Q4® Plus Herbicide for Grassy & Broadleaf Weeds***	Synthetic Auxins PPO Inhibitor	4 14	5-7 pt.	POST	August	Crabgrass, Yellow Nutsedge, Broadleaf Weeds
6	Katana® Turf Herbicide*	ALS Inhibitor	2	2.5 oz.	POST	September / October	<i>Poa annua</i> , Broadleaf Weeds

* Avoid application during transition into or out of dormancy.

** 2,4-D is limited to two applications per year. The maximum application rate to ornamental turf is 1.5 pounds of 2,4-D acid equivalent per acre per application. The maximum seasonal rate is 3.0 pounds of 2,4-D acid equivalent per acre, excluding spot treatments.

‡ Refer to label for more information on Bermuda/Zoysia turf sensitivity.

Program 2: Recommended Application - Fescue

APP#	PRODUCT	MOA	WSSA CODE	RATE PER ACRE	PRE/POST	TIMING	TARGETED WEEDS
1	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	Crabgrass, Broadleaf Weeds
2	SpeedZone® Broadleaf Herbicide for Turf*	Synthetic Auxins PPO Inhibitor	4 14	4 pt.	POST	March	Broadleaf Weeds
3	SpeedZone® Broadleaf Herbicide For Turf*	Synthetic Auxins PPO Inhibitor	4 14	1.47 fl. oz./ 1,000 ft ²	Spot Treatment	June-August	Goosegrass 2 applications 30 days apart
4	Q4® Plus Turf Herbicide for Grassy & Broadleaf Weeds*	Synthetic Auxins PPO Inhibitor	4 14	8 pt.	POST	July	Broadleaf Weeds, Crabgrass, Yellow Nutsedge
5	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	<i>Poa annua</i>

* 2,4-D is limited to two applications per year. The maximum application rate to ornamental turf is 1.5 pounds of 2,4-D acid equivalent per acre per application. The maximum seasonal rate is 3.0 pounds of 2,4-D acid equivalent per acre, excluding spot treatments.

Program 3: Recommended Application - Centipede

APP#	PRODUCT	MOA	WSSA CODE	RATE PER ACRE	PRE/POST	TIMING	TARGETED WEEDS
1	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	Crabgrass, Broadleaf Weeds
2	Avenue™ South Broadleaf Herbicide for Turfgrass*	ALS Inhibitor PPO Inhibitor Synthetic Auxins	2 14 4	4 pt.	POST	May / June	Broadleaf Weeds
3	Avenue™ South Broadleaf Herbicide for Turfgrass*	ALS Inhibitor PPO Inhibitor Synthetic Auxins	2 14 4	4 pt.	POST	August	Broadleaf Weeds
4	Katana® Turf Herbicide**	ALS Inhibitor	2	1.5 oz.	POST	September / October	<i>Poa annua</i> , Broadleaf Weeds
	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE		

* 2,4-D is limited to two applications per year. The maximum application rate to ornamental turf is 1.5 pounds of 2,4-D acid equivalent per acre per application. The maximum seasonal rate is 3.0 pounds of 2,4-D acid equivalent per acre, excluding spot treatments.

** Avoid application during transition into dormancy.

Program 4: Recommended Application - St. Augustinegrass

APP#	PRODUCT	MOA	WSSA CODE	RATE PER ACRE	PRE/POST	TIMING	TARGETED WEEDS
1	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	Crabgrass, Broadleaf Weeds
2	Avenue™ South Broadleaf Herbicide for Turfgrass* ‡	ALS Inhibitor PPO Inhibitor Synthetic Auxins	2 14 4	4 pt.	POST	May / June	Broadleaf Weeds
3	Avenue™ South Broadleaf Herbicide for Turfgrass* ‡	ALS Inhibitor PPO Inhibitor Synthetic Auxins	2 14 4	4 pt.	POST	August	Broadleaf Weeds
4	Pre-emergent <i>(choose a product that best fits your weed management goals)</i>	Rotate MOAs annually		Refer to label	PRE	Refer to label	<i>Poa annua</i>

* Do not apply Avenue South to improved varieties of St. Augustinegrass at rates above 3.5 pints/acre unless temporary turf injury can be tolerated.

‡ 2,4-D is limited to two applications per year. The maximum application rate to ornamental turf is 1.5 pounds of 2,4-D acid equivalent per acre per application. The maximum seasonal rate is 3.0 pounds of 2,4-D acid equivalent per acre, excluding spot treatments.