Year-Round Control of Tough Texas Weeds

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Annuals, Perennials

- Annuals
- Perennials

Warm-season
Cool-season
Grasses
Broadleaves

Winter Annuals

Summer Annuals

Winter Annuals

Summer Perennials
Grasses

Parallel Leaf Veins

Monocot seedling – Grasses are monocots

Simple, Entire Leaf Shape

Alternate, 2-ranked leaf arrangement
Various Grass Inflorescences

Dicot seedling – Many broadleaf plants are dicots

Flowers highly variable and often showy

Broadleaf Weeds

Variable Leaf Shapes

Sedges

Sedges have edges – and a three-ranked leaf arrangement

Alternate, 3-ranked leaf arrangement
**Weeds**

### Why control weeds?

- **Traffic Tolerance**
  - Brosnan et al. 2014
  - P < 0.0001

- **Surface Hardness**
  - Brosnan et al. 2014

- **Rotational Resistance**
  - Brosnan et al. 2014
Annual Grassy Weeds

Crabgrass Germination

Soil temp ≥ 55°F for 3 consecutive days and nights – Usually mid-March

Prostrate Knotweed Germination

Before crabgrass

Redbud
Annual Grassy Weeds

Sandbur

PRE herbicides ~ 50% control
Germinates later than other weeds

## Product AI Notes

<table>
<thead>
<tr>
<th>Product</th>
<th>AI</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Pendulum, other</td>
<td>Pendimethalin</td>
<td></td>
</tr>
<tr>
<td>Barricade, other</td>
<td>Prodiamine</td>
<td></td>
</tr>
<tr>
<td>Dimension, others</td>
<td>dithiopyr</td>
<td>Early post control</td>
</tr>
<tr>
<td>Ronstar, other</td>
<td>oxadiazon</td>
<td>Not a mitotic inhibitor</td>
</tr>
<tr>
<td>Specticle</td>
<td>indaziflam</td>
<td>Early post control</td>
</tr>
<tr>
<td>Echelon</td>
<td>Prodiamine + sulfentrazone</td>
<td>Early post control, SA injury</td>
</tr>
<tr>
<td>Freehand G</td>
<td>Prodimethalin</td>
<td>Pre Sedge</td>
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Fertilizer Carrier

Herbicide Application

Herbicidal Barrier

Herbicides bind to organic matter

Must be watered in for activation! (0.25 inches)

Application Uniformity
Ronstar

Oxadiazon

Not for residential properties
Not a root pruner
Great for weed control at sprigging
Good option for athletic fields
Excellent broad-spectrum control
PRE Herbicides After Winterkill

Oxadiazon a good option (not for residential properties)

Split Applications?

“Root Pruners”

Read label if using in the fall around ryegrass overseeding

Specticle FLO

Active ingredient: Indaziflam
Cellulose biosynthesis inhibitor
Low use rate (< 10 oz/A)
> 150 days soil half life
Warm-season turf only
See label for use in sandy (> 80% sand) soils

Can be applied 1 year after seeding or 16 months after sprigging

After Application
Delay sprigging for 2 months
Delay sodding for 6 months
Delay overseeding for 10 to 12 months

Use Not Recommended on Sports Fields
Active Herbicide in Soil Could Compromise Establishment in Traffic Areas
PRE Herbicides During Recovery

Post-Emergence Grass Control

Quinclorac

Drive XLR8, Quinclorac 75 DF
Crabgrass, foxtail
On label - broadleaf signalgrass, torpedograss
Use MSO as directed by label
Bermudagrass and zoysia only

Post-Emergence Control

Solitaire 75 DF
Bermuda, buffalo, centipede, zoysia
Quinclorac + Sulfentrazone
Results visible shortly after treatment
Will control broadleaves and control/suppress sedges

Post-Emergence Control

St. Augustine

Celsius 68 WDG
Will control crabgrass in “the early stages of growth”
before tillering

Dithiopyr

Early post-emergence residual crabgrass control – prior to tillering
Take advantage of early post-emergence activity
Now labeled for crabgrass control up to the 5th tiller
Winter Annuals

PRE-emergence herbicides

Winter Annual Grassy Weeds

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<td>Princep</td>
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<td>simazine</td>
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Panhandle – Mid August to early September
DFW/North – Early September
Central/South – Mid to late September

When nighttime temperatures drop and sufficient soil moisture is present
Annual Bluegrass Control
Pecan Valley CC – Ft. Worth TX

Applications
September 29
October 20
November 20
December 22

Prodiamine 1.0 lbs/A

Annual bluegrass germinates earlier than you think!

Early post-emergence residual control options (Princelp, Specticle) may work well if you’ve had problems before

Sep 29 Oct 20

Simazine (2 lb/A - split) Specticle FLO (6 fl oz/A)

Nov 20, Dec 22 Oct 20

Post-Emergence Grassy Weeds

Glyphosate (dormant)

Residential, commercial and athletic field turf

Use Prohibited

MSMA
### Golf Courses
- **Spot treatments only**
- 100 ft² or smaller
- < 25% of course

### Sod Farms
- Up to 2 broadcast applications
- 25 foot buffer near water bodies

### Highway Rights-of-way
- Up to 2 broadcast applications
- 100 foot buffer near water bodies

### Dallisgrass

### Herbicide Options

<table>
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<tr>
<th><strong>Tribute Total WDG</strong></th>
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<tbody>
<tr>
<td>Bermudagrass and zoysiagrass only</td>
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<tr>
<td>Thiencarbazone (9.9%)</td>
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<tr>
<td>Foramsulfuron (19.8%)</td>
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<tr>
<td>Halosulfuron (30.8%)</td>
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<tr>
<td>1 to 3.2 oz/A (6.4 oz year max)</td>
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<td>MSO + AMS</td>
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**Herbicide Options**

**Tribute Total**

**Postemergence Annual Bluegrass/Ryegrass**

- Sulfonylureas
  - Revolver
  - Monument
  - Certainty
  - Katana
- Soil Temps > 60
- Water pH
- With N fert

**Glyphosate**

- (dormant)

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**Ronstar (3 lbs ai) + Finale (1 gal)**

UNTREATED

42 DAT on 7 Mar.

~100%

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**Broadleaf Weeds**

While pre-emergents may have activity against broadleaf weeds, they can be economically controlled with post-emergence herbicides.

**Synthetic Auxins**

- Phenoxy’s
  - Three-Way

Upcoming turfgrass pest control guide will have much more information on various products

Many are Red products
May cause temporary injury if applied during bermudagrass greenup
Metsulfuron
0.5 – 1 oz/A
Include NIS

Broadleaf Weeds
Manor, MSM Turf - Metsulfuron

Blindside 60 WDG – FMC
(Metsulfuron + Sulfentrazone)

Celsius 65 WDG
(Thiencarbazone + iodosulfuron + 
dicamba)

Isoxaben – Pre Emergence
Pre-emergence broadleaf weed control
Gallery
Somewhat expensive, although cheaper now
Does not affect turfgrass rooting after sprigging
Do not apply after seeding

Ryegrass Transition in Spring
Ryegrass removal increases the vigor of bermudagrass
Apply April – May
Certainty
Katana
Monument
Revolver
Metsulfuron
Kerb

Clumpy Ryegrass
Coming Soon

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