Pasture Weed Control Following a Wet and Warm Fall
Brent Sellers

Outline

• Weather in 2015
• Know your weeds
• Forage Tolerance
• Control weeds or fertilize first?
• Key spring weeds
• Optimizing control
• Spring-time smutgrass control
  • Broadcast
  • Wiper

Summary of Rainfall – 2015

<table>
<thead>
<tr>
<th>Month</th>
<th>Maximum / month</th>
<th>Minimum / month</th>
<th>74-year average</th>
<th>Total</th>
<th>Difference from 74-year average</th>
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</thead>
<tbody>
<tr>
<td>January</td>
<td>8.45</td>
<td>0.03</td>
<td>2.10</td>
<td>1.62</td>
<td>-0.48</td>
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<tr>
<td>February</td>
<td>9.59</td>
<td>0.02</td>
<td>2.49</td>
<td>1.50</td>
<td>1.50</td>
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<tr>
<td>March</td>
<td>12.54</td>
<td>0.13</td>
<td>3.96</td>
<td>1.11</td>
<td>-1.83</td>
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<tr>
<td>April</td>
<td>11.91</td>
<td>0.00</td>
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<td>1.87</td>
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<tr>
<td>May</td>
<td>10.58</td>
<td>0.00</td>
<td>1.30</td>
<td>1.71</td>
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<td>June</td>
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<td>2.75</td>
<td>8.58</td>
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<td>July</td>
<td>19.74</td>
<td>1.87</td>
<td>8.15</td>
<td>8.18</td>
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<tr>
<td>August</td>
<td>20.31</td>
<td>1.33</td>
<td>8.43</td>
<td>11.79</td>
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<tr>
<td>September</td>
<td>20.31</td>
<td>1.33</td>
<td>7.33</td>
<td>7.54</td>
<td>-2.22</td>
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<tr>
<td>October</td>
<td>13.23</td>
<td>0.00</td>
<td>2.95</td>
<td>1.71</td>
<td>-1.22</td>
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<td>November</td>
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<td>1.88</td>
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<td>December</td>
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<td>0.07</td>
<td>2.94</td>
<td>2.15</td>
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<tr>
<td>Year total</td>
<td>53.15</td>
<td>53.78</td>
<td>58.78</td>
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Summary of Average Temps – 2015

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>January</td>
<td>73.2</td>
<td>73.2</td>
<td>90.0</td>
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<td>71.7</td>
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<td>1945</td>
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<tr>
<td>May</td>
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<td>90.5</td>
<td>103.0</td>
<td>1945</td>
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<tr>
<td>June</td>
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<td>90.8</td>
<td>109.0</td>
<td>1945</td>
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<tr>
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<td>90.2</td>
<td>103.0</td>
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<tr>
<td>August</td>
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<td>91.4</td>
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</tr>
<tr>
<td>September</td>
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<td>90.5</td>
<td>98.3</td>
<td>several</td>
</tr>
<tr>
<td>October</td>
<td>93.0</td>
<td>89.1</td>
<td>95.3</td>
<td>2015</td>
</tr>
<tr>
<td>November</td>
<td>79.2</td>
<td>84.5</td>
<td>94.0</td>
<td>1980</td>
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<tr>
<td>December</td>
<td>74.5</td>
<td>82.0</td>
<td>89.0</td>
<td>1945</td>
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<tr>
<td>Average</td>
<td>83.2</td>
<td>81.2</td>
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</tbody>
</table>

• Helps you choose the correct product(s)
• Save $$
• Sources:
  • Weed ID books
  • Websites (ufweed.com)
  • Extension agents and specialists
• Sending pictures
  • Highest quality possible
  • Several pictures of plant parts
  • Where it is growing
  • Forage species

Sending Pictures
Sending Pictures

Forage Tolerance

• Bahiagrass
  • Tolerant to most except
    • Metsulfuron (Chaparral, Pastoral)
    • Imazapic (Impose, Panoramic)
  • Bermudagrass & stargrass
    • Tolerant...but:
      • Can get injury under high temps and RH
      • Spring transition
• Limpograss
  • Can be sensitive
    • See Table 5 in “Weed Management in Pastures and Rangeland”
    • See Table 1 in “Weed Management in Limpograss”

Limpograss & Herbicides

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Biomass (% of dicamba-treated limpograss)</th>
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<tbody>
<tr>
<td>Velpar 64 oz/A</td>
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</tr>
<tr>
<td>Velpar 32 oz/A</td>
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<tr>
<td>Chaparral 3 oz/A</td>
<td></td>
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<tr>
<td>Pasturegard HL 24 oz/A</td>
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<tr>
<td>Metsulfuron 0.3 oz/A</td>
<td></td>
</tr>
<tr>
<td>GrazonNext HL 24 oz/A</td>
<td></td>
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<tr>
<td>WeedMaster 48 oz/A</td>
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<tr>
<td>2,4-D amine 64 oz/A</td>
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</tbody>
</table>
Limpograss/Floralta

- Time of year dependent
  - November to April
    - 3 to 4 pt/A 2,4-D
    - 3 pt/A WeedMaster
  - May to October
    - 2 pt/A dicamba

Control Weeds or Fertilize First?

- Weeds also use available nutrients
- May make weeds more competitive than forage
- Best to treat weeds first, then fertilize
  - Liquid fertilizer with herbicides usually ok
  - Check herbicide labels
  - Perform compatibility test

Bermudagrass, Ragweed and Nitrogen

- Chart showing the effects of different treatments on Bermudagrass, Ragweed and Nitrogen levels in a plot.
- Treatments include:
  - None
  - 2,4-D
  - N
  - N + 2,4-D
- Values in lbs/bermuda/ac for each treatment.
Herbicides, Mowing and Bermudagrass Yield

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield (lbs/bermuda/ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Herb</td>
<td>1400</td>
</tr>
<tr>
<td>Late herb</td>
<td>477</td>
</tr>
<tr>
<td>Mowing</td>
<td>341</td>
</tr>
<tr>
<td>No Weed Control</td>
<td>377</td>
</tr>
</tbody>
</table>

Heavily infested with wooly croton and ragweed

Thistle Control

- Biennial species
- Two species are most numerous
  - Nuttall's thistle
  - Horrible/purple thistle
- Control is always better when sprayed at the rosette growth stage

Thistle Growth Stages

- Rosette
- Bolting
Thistle Control with Milestone

Comparing Milestone with Standards

Fireweed
Goatweed

- Bahiagrass
  - 2,4-D @ 4 pt
  - GrazonNext HL @ 24 oz + 2,4-D @ 3 pt
- Bermuda/star/limpo
  - Metsulfuron @ 0.3-0.4 oz
  - Chaparral @ 3 oz

TSA

- Broadcast: All forage grasses
  - Milestone 5 to 7 fl oz/acre (limopgrass)
  - GrazonNext HL 1.5 to 2.1 pints/acre
    - Apply anytime during the year except when frost is likely (January through February)
    - Plants must be actively growing after frost events
    - Use in limopgrass ONLY during November – April
  - Chaparral 2 – 3 oz/acre (limopgrass, bermudagrass, stargrass)
- Spot spraying: All forage grasses
  - 0.11% v/v Milestone solution (3 tsp/gallon; 1 oz/5 gallons)
  - 1 oz/gallon for GrazonNext HL
  - Spray the entire plant

Spot-Spraying TSA
What do you Apply Here?

Dogfennel <36” (Bahia, Bermuda, Star)

• 4 pt/A 2,4-D
• 3 pt/A WeedMaster
• 1 pt/A Pasturegard HL
Dogfennel >36” (Bahia, Bermuda, Star)

- 4 pt/A WeedMaster
- 1.5 pt/A Pasturegard HL

Dogfennel >36” after 2,4-D @ 2 QT

FAIL

Dogfennel >36” (Limpo/Floralta)

- 2 pt/A dicamba (ugh)
- 1 to 1.5 pt/A Pasturegard (must be willing to accept injury)
Springtime Smutgrass Control

- Broadcast hexazinone
- Smutgrass dormancy
- Need rainfall
  - ~ ¾ to 1 inch within 2 weeks of application
  - > 2 inches = reduced activity
- Wipers
  - Glyphosate – 10% solution
  - Wipe two directions for best activity

Using a Wiper
I Want to Keep My (insert legume)

- Extremely difficult
- Timing of application may be key
- Early spring applications Pasturegard or Remedy
  - Aeschynomene
  - Hairy indigo
  - Tropical legumes (phaseybean, carpon, vigna)
- Mid-summer applications Pasturegard
  - White clover (somewhat tolerant to Velpar)
  - Perennial Peanut?

FYI

- Email: sellersb@ufl.edu
- Website: uflweed.com