University of GA Coop Ext Service

Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A
Trial ID: Turf4-06 Protocol ID: NuFarm-TG-Dow
Location: Site A-Higgins Rd, Griffin Study Director: Bill Nutt Investigator: Tim R Murphy

General Trial Information
Study Director: Bill Nutt Title: ARCI
Affiliation: UGA CAES E-mail: bnutt@griffin.uga.edu
Investigator: Tim R Murphy Title: Weed Scientist
Affiliation: UGA CAES E-mail: tmurphy@uga.edu

Trial Location
City: Higgins Rd., Griffin Trial Status: MULTI-YEAR/FINAL
State/Prov.: GA Initiation Date: 10-2-05
Completion Date: 5-8-06

Cooperator/Landowner
Cooperator: Anita Alexander Organization: Dow AgroSciences
City: Lawrenceville State/Prov: GA

Crop Description
Crop 1: FESAR Festuca arundinacea Tall Fescue Variety: KY 31
Planting Date: 10-2-05 Planting Method: Seeded

Pest Description
Pest 1 Type: W Code: GNASS Gnaphalium species Common Name: Cudweed
Pest 2 Type: W Code: APHAR Aphanes arvensis Common Name: Parsley-piert
Pest 3 Type: W Code: COPDI Coronopus didymus Common Name: Swinecress
Pest 4 Type: W Code: TRFAU Trifolium aureum Common Name: Hop Clover
Pest 5 Type: W Code: SCRAI Scleranthus annuus Common Name: Annual Knawel
Pest 6 Type: W Code: LINCA Linaria canadensis Common Name: Old-field Toadflax

Site and Design
Plot Width, Unit: 5 FT Site Type: simulated home lawn
Plot Length, Unit: 10 FT Replications: 4 Study Design: Randomized Complete Block
Trial Initiation Comments: Spray 5 ft. width on 8 ft. centers, plot 10 ft. long.
Field Prep./Maintenance: Irrigated site clipped at 2.5 inches with rotary mower.

Maintenance
<table>
<thead>
<tr>
<th>No.</th>
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<th>Treatment Name</th>
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<tbody>
<tr>
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<td>2-24-06</td>
<td>Mowed test to 2 inch height</td>
</tr>
<tr>
<td>2</td>
<td>3-24-06</td>
<td>Mowed test to 2.5 inch height</td>
</tr>
<tr>
<td>3</td>
<td>4-14-06</td>
<td>Mowed test to 3 inch height</td>
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</table>
### Application Description

<table>
<thead>
<tr>
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<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td><strong>Application Date:</strong></td>
<td>1-27-06</td>
<td>3-7-06</td>
<td>4-6-06</td>
</tr>
<tr>
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<td>1:45 pm</td>
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<tr>
<td><strong>Application Method:</strong></td>
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<tr>
<td><strong>Application Timing:</strong></td>
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<td>Post</td>
<td>Post</td>
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<tr>
<td><strong>Application Placement:</strong></td>
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<tr>
<td>Applied By:</td>
<td>B. Nutt</td>
<td>B. Nutt</td>
<td>B. Nutt</td>
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<tr>
<td><strong>Air Temperature, Unit:</strong></td>
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<tr>
<td><strong>% Relative Humidity:</strong></td>
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<td>40</td>
<td>24</td>
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<tr>
<td><strong>Wind Velocity, Unit:</strong></td>
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<td>Dew Presence (Y/N):</td>
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<td><strong>Soil Temperature, Unit:</strong></td>
<td>43 F</td>
<td>53 F</td>
<td>68 F</td>
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<td><strong>Soil Moisture:</strong></td>
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<td><strong>% Cloud Cover:</strong></td>
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### Crop Stage At Each Application

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<tr>
<td><strong>Crop 1 Code:</strong></td>
<td>FESAR</td>
<td>FESAR</td>
<td>FESAR</td>
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<tr>
<td><strong>Stage Majority, Percent:</strong></td>
<td>Active Growth 100%</td>
<td>Active Growth 100%</td>
<td>Active Growth 100%</td>
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<tr>
<td><strong>Height, Unit:</strong></td>
<td>2.5 in</td>
<td>3 in</td>
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## Pest Stage At Each Application

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<th>C</th>
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<tr>
<td>Stage Majority, Percent:</td>
<td>Vegetative 100</td>
<td>Vegetative 75</td>
<td>Flower 100</td>
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<tr>
<td>Stage Minimum, Percent:</td>
<td>Early Bloom 25</td>
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<tr>
<td>Diameter, Unit:</td>
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<td>3.5 IN</td>
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<td>Height, Unit:</td>
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<td>Height Minimum, Maximum:</td>
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<td>Diameter, Unit:</td>
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<td>3 IN</td>
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<tr>
<td>Height, Unit:</td>
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<td>Height Minimum, Maximum:</td>
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<td>Pest 4 Code:</td>
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<td>Vegetative 100</td>
<td>Flower 100</td>
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<td>Diameter, Unit:</td>
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<td>Height, Unit:</td>
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<td>Diameter, Unit:</td>
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<td>6 IN</td>
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<tr>
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<td>3 IN</td>
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<td>Vegetative 100</td>
<td>Flower 100</td>
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<td>6.5 IN</td>
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<td>Density, Unit:</td>
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<td>5 %</td>
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## Application Equipment

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<tr>
<td>Operating Pressure, Unit:</td>
<td>24 psi*</td>
<td>24 psi*</td>
<td>24 psi*</td>
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<td>Nozzle Size:</td>
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<td>Boom Height, Unit:</td>
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<td>Boom Height, Unit:</td>
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<td>20 in</td>
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<td>Ground Speed, Unit:</td>
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<td>Carrier:</td>
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<td>Spray Volume, Unit:</td>
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<td>Propellant:</td>
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<td>Tank Mix (Y/N):</td>
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Equipment Comment: * Spraying Pressure: Gun = 24 psi; Regulator = 31 psi.
Trial Comments

WEED DENSITY RATINGS FOR UNTREATED CONTROL CHECK

<table>
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<tr>
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<th>10</th>
<th>204</th>
<th>305</th>
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<tr>
<td>GNASS, 1-30-06</td>
<td>10</td>
<td>30</td>
<td>30</td>
<td>35</td>
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<td>APHAR</td>
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<td>20</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>COPDI</td>
<td>.</td>
<td>5</td>
<td>1</td>
<td>10</td>
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<td>TRFAU</td>
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<td>.</td>
<td>5</td>
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<td>SCinan</td>
<td>20</td>
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<td>1</td>
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<tr>
<td>LINCA</td>
<td>5</td>
<td>5</td>
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<td>.</td>
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</tbody>
</table>

3-07-06
Plot #105 was treated twice by mistake. It received treatment #5 and #6.
Plot 105 deleted from ANOVAs performed 3-13, 3-22, 3-30, 4-04, 4-12, 4-20, 5-08-06

5-8-06
Parsley-piert, APHAR, was dying out in all of untreated check plots.
### Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

#### Pest Code
- **Pest Name:** Cudweed
- **Pest Variety:** Cudweed
- **Pest Name:** Parsley
- **Pest Variety:** Parsley

#### Treatment Table

<table>
<thead>
<tr>
<th>No.</th>
<th>Trt</th>
<th>Treatment Name</th>
<th>Form Conc</th>
<th>Form Type</th>
<th>Other Rate</th>
<th>Other Rate Unit</th>
<th>Growth Stage</th>
<th>Appl Code</th>
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<tbody>
<tr>
<td>1</td>
<td>Tripower</td>
<td>Escalade 2</td>
<td>4 EC</td>
<td>3 pt/a Late Winter A</td>
<td>2 a</td>
<td>2 a</td>
<td>7 a</td>
<td>10 a</td>
</tr>
<tr>
<td>2</td>
<td>Tripower</td>
<td>Tripower</td>
<td>3.23 EC</td>
<td>3.5 pt/a Late Winter A</td>
<td>2 a</td>
<td>2 a</td>
<td>3 a</td>
<td>7 a</td>
</tr>
<tr>
<td>3</td>
<td>Escalade 2</td>
<td>Escalade 2</td>
<td>4 EC</td>
<td>3 pt/a Late Winter A</td>
<td>1 a</td>
<td>2 a</td>
<td>3 a</td>
<td>6 a</td>
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<tr>
<td>4</td>
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<td>Tripower</td>
<td>4 EC</td>
<td>3 pt/a Early Spring B</td>
<td>2 a</td>
<td>2 a</td>
<td>7 a</td>
<td>10 a</td>
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<tr>
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<td>Tripower</td>
<td>3.23 EC</td>
<td>3.5 pt/a Early Spring C</td>
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<td>2 b</td>
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<td>2 b</td>
<td>6 b</td>
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<td>2 b</td>
<td>6 b</td>
<td>6 bc</td>
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<tr>
<td>8</td>
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<td>Tripower</td>
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<td>2 b</td>
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<td>2 b</td>
<td>6 b</td>
<td>6 bc</td>
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</table>

LSD (P=.05) 0.7 0.0 0.8 1.5 0.6 0.6
Standard Deviation 0.4 0.0 0.5 0.9 0.4 0.4
CV 31.75 0.0 23.53 18.11 8.07 6.23

Means followed by same letter do not significantly differ (P=.05, LSD)
### Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

<table>
<thead>
<tr>
<th>Pest Code</th>
<th>APHAR</th>
<th>APHAR</th>
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<tr>
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<table>
<thead>
<tr>
<th>Trt No.</th>
<th>Treatment Name</th>
<th>Form Conc</th>
<th>Form Type</th>
<th>Other Rate</th>
<th>Other Rate Unit</th>
<th>Growth Stage</th>
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<tbody>
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<td>Tripower</td>
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<td>3.5 pt/a</td>
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<td>3 pt/a</td>
<td>Late Spring</td>
<td>C</td>
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<td>8</td>
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<td>3 pt/a</td>
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Means followed by same letter do not significantly differ (P=.05, LSD)
### Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

<table>
<thead>
<tr>
<th>Pest Code</th>
<th>Pest Name</th>
<th>COPDI</th>
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10 Untreated Check | 1 b | 1 c | 1 b | 1 c | 1 b |

LSD (P=.05) | 1.9 | 0.5 | 0.0 | 0.0 | 0.0 |
Standard Deviation | 1.1 | 0.3 | 0.0 | 0.0 | 0.0 |
CV | 24.12 | 6.39 | 0.0 | 0.0 | 0.0 |

Means followed by same letter do not significantly differ (P=.05, LSD)
### Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

#### Pest Code
- **TrFAU: Closet**
- **SCRAN: Knawel**

#### Pest Name
- **Clover**
- **Knawel**

#### Pest Variety
- **Hop**
- **Control**

#### Rating Date
- 2-23-06
- 3-13-06
- 3-22-06
- 3-30-06
- 4-4-06
- 4-12-06

#### Rating Data Type
- **Control**

#### Rating Unit
- 1-10
- 1-10
- 1-10
- 1-10
- 1-10

#### Days After First/Last Applic.
- 27
- 27
- 45
- 6
- 54
- 15
- 62
- 23
- 67
- 28
- 75
- 6

#### Plant-Eval Interval
- 144 DP-1
- 162 DP-1
- 171 DP-1
- 179 DP-1
- 184 DP-1
- 192 DP-1

#### Treatment
- **Tripower**
- **Triplet SF**
- **Escalade 2**

#### Form Conc
- 4 EC
- 3.23 EC
- 3 EC

#### Form Type
- 3 pt/a
- 3.5 pt/a
- 3 pt/a

#### Other Rate
- Late Winter
- Late Winter
- Late Winter

#### Other Rate Unit
- Days After First/Last Applic.

#### Growth Stage
- Early Spring
- Early Spring
- Early Spring

#### Appl Code
- Control
- Control
- Control

#### LSD (P=.05)
- 1.0
- 0.4
- 0.0
- 0.0
- 0.0

#### Standard Deviation
- 0.6
- 0.2
- 0.0
- 0.0
- 0.0

#### CV
- 22.87
- 4.9
- 0.0
- 0.0
- 0.0

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**Means followed by same letter do not significantly differ (P=.05, LSD)**
## Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

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Means followed by same letter do not significantly differ (P=.05, LSD)
### Winter Annual Broadleaf Weed Control with Postemergence Herbicides - Application Timings - Site A

| Pest Code | Pest Name | Pest Variety | Rating Date | Rating Data Type | Rating Unit | Days After First/Last Applic. | Plant-Eval Interval | Trt | Treatment | Form | Form Conc | Form Rate | Other Rate | Rate Unit | Growth Stage | Other Stage | Growth Code | Appl Code |
|-----------|-----------|--------------|-------------|------------------|-------------|-----------------------------|---------------------|-----|------------|------|-----------|-----------|------------|-----------|-------------|-------------|-------------|-----------|-----------|
| LINCA     | Toadflax  | Oldfield     | 3-22-06     | Control          | 1-10        | 54                          | 171 DP-1            | 1   | Tripower  | 4     | EC        | 3 pt/a    | Late Winter | A         |             |             |             | 10 a       | 10 a       |
| LINCA     | Toadflax  | Oldfield     | 3-30-06     | Control          | 1-10        | 15                          | 179 DP-1            | 2   | Triplet SF| 3.23  | EC        | 3.5 pt/a  | Late Winter | A         |             |             |             | 10 a       | 10 a       |
| LINCA     | Toadflax  | Oldfield     | 4-4-06      | Control          | 1-10        | 62                          | 184 DP-1            | 3   | Escalade 2| 4     | EC        | 3 pt/a    | Late Winter | A         |             |             |             | 10 a       | 10 a       |
| LINCA     | Toadflax  | Oldfield     | 4-12-06     | Control          | 1-10        | 67                          | 192 DP-1            | 4   | Tripower  | 4     | EC        | 3 pt/a    | Early Spring| B         |             |             |             | 7 b        | 7 b        |
| LINCA     | Toadflax  | Oldfield     | 4-20-06     | Control          | 1-10        | 75                          | 200 DP-1            | 5   | Triplet SF| 3.23  | EC        | 3.5 pt/a  | Early Spring| B         |             |             |             | 10 a       | 10 a       |
| LINCA     | Toadflax  | Oldfield     | 5-8-06      | Control          | 1-10        | 83                          | 218 DP-1            | 6   | Escalade 2| 4     | EC        | 3 pt/a    | Early Spring| C         |             |             |             | 9 b        | 9 b        |
| LINCA     | Toadflax  | Oldfield     | 5-8-06      | Control          | 1-10        | 101                         | 179 DP-1            | 7   | Tripower  | 4     | EC        | 3 pt/a    | Late Spring | C         |             |             |             | 2 c        | 4 cd       |
| LINCA     | Toadflax  | Oldfield     | 5-8-06      | Control          | 1-10        | 101                         | 184 DP-1            | 8   | Triplet SF| 3.23  | EC        | 3.5 pt/a  | Late Spring | C         |             |             |             | 2 c        | 3 cd       |
| LINCA     | Toadflax  | Oldfield     | 5-8-06      | Control          | 1-10        | 101                         | 192 DP-1            | 9   | Escalade 2| 4     | EC        | 3 pt/a    | Late Spring | C         |             |             |             | 2 c        | 3 cd       |
|          | Untreated Check | |             | Control          |             | 101                         | 218 DP-1            | 10  | Untreated Check | 4     | EC        | 3 pt/a    | Late Spring | C         |             |             |             | 10 a       | 10 a       |

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