



# 2015 Cotton Harvest Aid Evaluation Howard County Dryland

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# Application

2015 Harvest Aid Evaluation  
**Howard County-Dryland**

| Application Information      |   |
|------------------------------|---|
| Application Dates:           |   |
| App. Code A:                 | 9/25/2015   |
| Cooperator:                  | Marty Brooks  |
| Variety:                     | FM 2484 B2F   |
| Time:                        | 10:45 - 11:15 am  |
| Temp (°F):                   | 78  |
| % RH:                        | 41%   |
| Wind Speed (mph) & Direction | calm  |
| GPS                          | FM 820, Coahoma, TX 79511<br>Latitude: 32.319568<br>Longitude: -101.31285 |
| Row Spacing("):              | 40"   |
| Plot width (rows)            | 4 (+2 row check between trts.)  |
| Plot length                  | 125 feet  |
| % Open                       | 70-75%  |
| Plant Height (mean inches)   | 20-25"  |
| Notes:                       |   |
| Sprayer Information          | Spider Sprayer  |
|                              | 11 gpa / 11002 Turbo Teejet   |
|                              | 32 psi  |
|                              | 4 mph   |

# Climate

| DAILY TEMPERATURES |             |      |        |
|--------------------|-------------|------|--------|
| Date               | Low         | High | GDD 60 |
| 9/25/2015          | 69          | 88   | 18.5   |
| 9/26/2015          | 64          | 90   | 17     |
| 9/27/2015          | 62          | 88   | 15     |
| 9/28/2015          | 62          | 89   | 15.5   |
| 9/29/2015          | 61          | 88   | 14.5   |
| 9/30/2015          | 61          | 89   | 15     |
| 10/1/2015          | 72          | 94   | 23     |
| 10/2/2015          | 63          | 83   | 13     |
| 10/3/2015          | 61          | 83   | 12     |
| 10/4/2015          | 58          | 76   | 7      |
| 10/5/2015          | 61          | 76   | 8.5    |
| 10/6/2015          | 50          | 83   | 6.5    |
| 10/7/2015          | 68          | 85   | 16.5   |
| 10/8/2015          | 62          | 74   | 8      |
|                    | Total       |      | 190    |
| Rain               |             |      |        |
| 9/26/2015          | 0.13        |      |        |
| 9/27/2015          | 0.03        |      |        |
| 10/8/2015          | 1.43        |      |        |
| Total:             | 1.59 inches |      |        |

# 7 Day Summary

The plants received some rain a few of weeks prior to defoliation and has started to regrow. Most treatments had a base line regrowth score of 30%.

- Addition of crop oil concentrate and Finish 6 Pro significantly improved the defoliation performance of the Ginstar treatments.
- PPO treatments did not perform as well as the others. Display scoring highest for defoliation and Sharpen the lowest for regrowth.
- Folex and ethephon did surprisingly well on defoliation but regrowth will be an issue.
- The high Gramoxone treatment defoliated very well but has typical regrowth issues.
- The low rate of Gramoxone did not defoliate well as it had at other locations earlier this year.
- The “kitchen sink” mix with Ginstar and Finish performed well at this location.



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 15 |
| % Desiccation | 25 |
| % Green Leaf  | 60 |
| % Open Boll   | 30 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 16    |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 40 |
| % Desiccation | 15 |
| % Green Leaf  | 45 |
| % Open Boll   | 20 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|    |
|----|
| 4  |
| 16 |
| 1% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 35 |
| % Desiccation | 20 |
| % Green Leaf  | 45 |
| % Open Boll   | 30 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Finish 6 Pro         |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 8     |
| 8     |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 15 |
| % Desiccation | 25 |
| % Green Leaf  | 60 |
| % Open Boll   | 30 |

Treatment Name

|                      |
|----------------------|
| Adios                |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 16    |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 5  |
| % Desiccation | 35 |
| % Green Leaf  | 60 |
| % Open Boll   | 20 |

Treatment Name

|                      |
|----------------------|
| Aim                  |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|    |
|----|
| 1  |
| 16 |
| 1% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 15 |
| % Desiccation | 25 |
| % Green Leaf  | 60 |
| % Open Boll   | 20 |

Treatment Name

|                      |
|----------------------|
| Display              |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|     |
|-----|
| 0.6 |
| 16  |
| 1%  |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 10 |
| % Desiccation | 30 |
| % Green Leaf  | 60 |
| % Open Boll   | 30 |

Treatment Name

|                      |
|----------------------|
| ETX                  |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|      |
|------|
| 1.25 |
| 16   |
| 1%   |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 10 |
| % Desiccation | 30 |
| % Green Leaf  | 60 |
| % Open Boll   | 50 |

Treatment Name

|          |
|----------|
| Sharpen  |
| Ethephon |
| MSO      |
| Choice   |

Rate

|      |
|------|
| 0.75 |
| 16   |
| 1%   |
| 0.5% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 45 |
| % Desiccation | 15 |
| % Green Leaf  | 40 |
| % Open Boll   | 70 |

Treatment Name

|                      |
|----------------------|
| Folex                |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|      |
|------|
| 16   |
| 16   |
| .25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 65 |
| % Desiccation | 15 |
| % Green Leaf  | 20 |
| % Open Boll   | 80 |

Treatment Name

Gromoxone Inteon (2 lbs/gal)  
Crop Oil Concentrate

Rate

24  
1% v/v

Rate Unit

fl oz/a



| <u>7 Day Rating</u> |    |
|---------------------|----|
| % Defoliation       | 0  |
| % Desiccation       | 35 |
| % Green Leaf        | 65 |
| % Open Boll         | 40 |

| <u>Treatment Name</u>       | <u>Rate</u> | <u>Rate Unit</u> |
|-----------------------------|-------------|------------------|
| Graomone Inteon (2 lbs/gal) | 4.5         | fl oz/a          |
| Ethephon                    | 16          | fl oz/a          |
| Crop Oil Concentrate        | 1%          | v/v              |



Treatment Name

Rate

Rate Unit

7 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 35 |
| % Desiccation | 20 |
| % Green Leaf  | 45 |
| % Open Boll   | 30 |

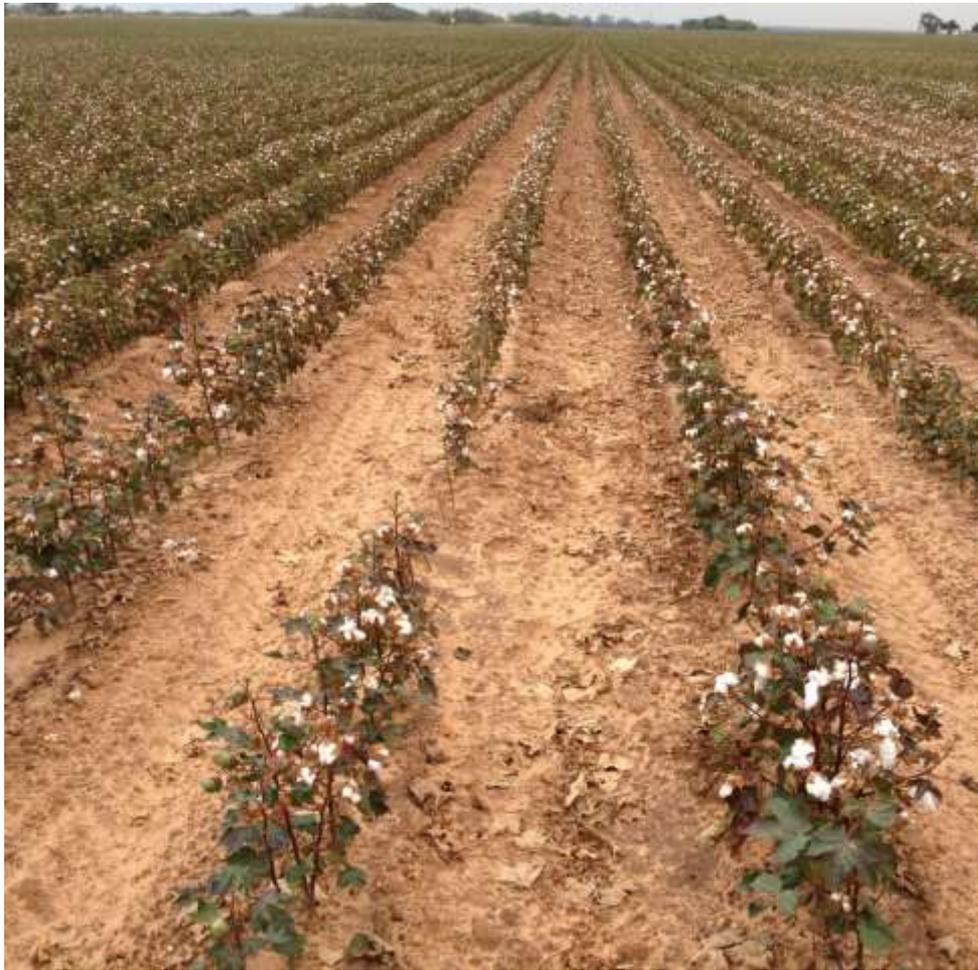
|                              |
|------------------------------|
| Ginstar                      |
| Gramoxone Inteon (2 lbs/gal) |
| Ams                          |
| Ams                          |
| Non-Ionic Surfactant         |

|     |         |
|-----|---------|
| 3   | fl oz/a |
| 4.5 | fl oz/a |
| 8   | fl oz/a |
| 8   | fl oz/a |
| 1%  | v/v     |

# 14 Day Summary

The plants received some rain a few of weeks prior to defoliation and has started to regrow. Most treatments had a base line regrowth score of 30% at 7d. It was raised to 50% at 14 days. Over all conditions were somewhat difficult for defoliation.

- Addition of crop oil concentrate and Finish 6 Pro significantly improved the defoliation performance of the Ginstar treatments.
- PPO treatments did not perform as well as the others. ETX and Sharpen exhibited the best defoliation and Sharpen the lowest for regrowth.
- Folex and ethephon did surprisingly well on defoliation but regrowth was an issue.
- The high Gramoxone treatment defoliated very well but regrowth was an issue and spoiled my scale of 0-100%. It was a 120%.
- The low rate of Gramoxone did not defoliate well as it had at other locations earlier this year.
- The “kitchen sink” mix with Ginstar and Finish performed well at this location at 7d but fell behind at 14d.



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 30 |
| % Desiccation | 25 |
| % Green Leaf  | 45 |
| % Regrowth    | 40 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 16    |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 80 |
| % Desiccation | 10 |
| % Green Leaf  | 10 |
| % Regrowth    | 30 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|    |
|----|
| 4  |
| 16 |
| 1% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 65 |
| % Desiccation | 20 |
| % Green Leaf  | 15 |
| % Regrowth    | 40 |

Treatment Name

|                      |
|----------------------|
| Ginstar              |
| Ethephon             |
| Finish 6 Pro         |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 8     |
| 8     |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 35 |
| % Desiccation | 20 |
| % Green Leaf  | 45 |
| % Regrowth    | 50 |

Treatment Name

|                      |
|----------------------|
| Adios                |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|       |
|-------|
| 4     |
| 16    |
| 0.25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 15 |
| % Desiccation | 30 |
| % Green Leaf  | 55 |
| % Regrowth    | 60 |

Treatment Name

|                      |
|----------------------|
| Aim                  |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|    |
|----|
| 1  |
| 16 |
| 1% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 25 |
| % Desiccation | 25 |
| % Green Leaf  | 50 |
| % Regrowth    | 60 |

Treatment Name

|                      |
|----------------------|
| Display              |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|     |
|-----|
| 0.6 |
| 16  |
| 1%  |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 35 |
| % Desiccation | 25 |
| % Green Leaf  | 40 |
| % Regrowth    | 60 |

Treatment Name

|                      |
|----------------------|
| ETX                  |
| Ethephon             |
| Crop Oil Concentrate |

Rate

|      |
|------|
| 1.25 |
| 16   |
| 1%   |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 30 |
| % Desiccation | 25 |
| % Green Leaf  | 45 |
| % Regrowth    | 80 |

Treatment Name

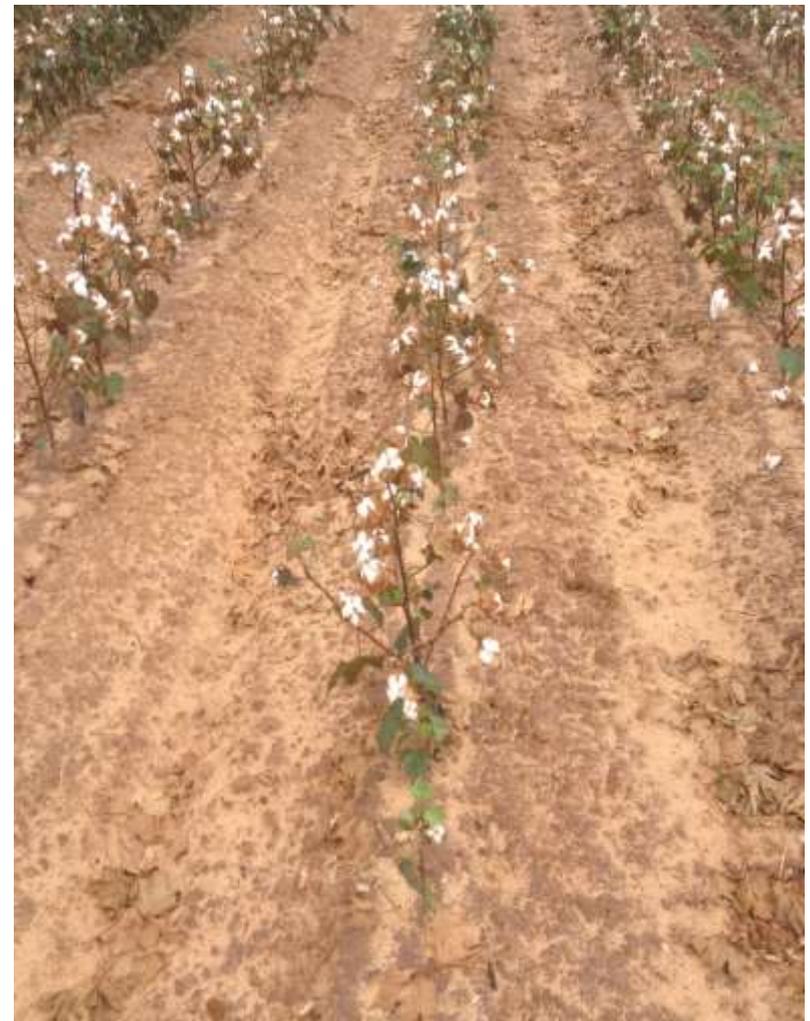
Sharpen  
 Ethephon  
 MSO  
 Choice

Rate

0.75  
 16  
 1%  
 0.5%

Rate Unit

fl oz/a  
 fl oz/a  
 v/v  
 v/v



14 Day Rating

|               |     |
|---------------|-----|
| % Defoliation | 60  |
| % Desiccation | 15  |
| % Green Leaf  | 25  |
| % Regrowth    | 100 |

Treatment Name

|                      |
|----------------------|
| Folex                |
| Ethephon             |
| Non-Ionic Surfactant |

Rate

|      |
|------|
| 16   |
| 16   |
| .25% |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

% Defoliation 80  
 % Desiccation 10  
 % Green Leaf 10  
 % Regrowth 120

Treatment Name

Gromoxone Inteon (2 lbs/gal)  
 Crop Oil Concentrate

Rate

24  
 1% v/v

Rate Unit

fl oz/a



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 5  |
| % Desiccation | 30 |
| % Green Leaf  | 65 |
| % Regrowth    | 60 |

Treatment Name

|                             |
|-----------------------------|
| Graomone Inteon (2 lbs/gal) |
| Ethephon                    |
| Crop Oil Concentrate        |

Rate

|     |
|-----|
| 4.5 |
| 16  |
| 1%  |

Rate Unit

|         |
|---------|
| fl oz/a |
| fl oz/a |
| v/v     |



14 Day Rating

|               |    |
|---------------|----|
| % Defoliation | 50 |
| % Desiccation | 15 |
| % Green Leaf  | 35 |
| % Regrowth    | 60 |

Treatment Name

|                              |
|------------------------------|
| Ginstar                      |
| Gramoxone Inteon (2 lbs/gal) |
| Ams                          |
| Ams                          |
| Non-Ionic Surfactant         |

Rate

Rate Unit

|     |         |
|-----|---------|
| 3   | fl oz/a |
| 4.5 | fl oz/a |
| 8   | fl oz/a |
| 8   | fl oz/a |
| 1%  | v/v     |

# Other Pictures



