



2015 Cotton Harvest Aid Evaluation Glasscock County Dryland

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2015 Harvest Aid Evaluation Glasscock Co - Dryland

10	Aim	0.25 fl oz/a									
10	Ethephon	32 fl oz/a	\$7.22			15	5	80	40	95	
10	Crop Oil Concentrate	1% v/v									
11	Sharpen	0.75 fl oz/a									
11	Ams	1.7 lbs/ac	\$5.33			25	0	75	30	95	
11	MSO	0.5% v/v									
12	Finish	16 fl oz/a									
12	Ethephon	16 fl oz/a	\$20.38			35	20	45	60	100	
12	Folex	16 fl oz/a									
12	Non-ionic Surfactant	0.25% v/v									
13	Finish	16 fl oz/a									
13	Ethephon	24 fl oz/a	\$21.63			45	20	35	60	100	
13	Folex	16 fl oz/a									
13	Non-ionic Surfactant	0.25% v/v									
14	Ethephon	16 fl oz/a									
14	Folex	16 fl oz/a	\$11.56			10	30	60	50	99	
14	Non-ionic Surfactant	0.25% v/v									
15	Ethephon	32 fl oz/a									
15	Folex	16 fl oz/a	14.06			5	30	65	60	100	
15	Non-ionic Surfactant	0.25% v/v									
16	Gramoxone SL	3 fl oz/a									
16	Ethephon	16 fl oz/a	\$4.99			5	10	85	60	100	
16	Crop Oil Concentrate	1% v/v									
17	Gramoxone SL	6 fl oz/a									
17	Ethephon	32 fl oz/a	\$7.98			5	10	85	50	100	
17	Crop Oil Concentrate	1% v/v									
18	Gramoxone SL	16 fl oz/a									
18	Crop Oil Concentrate	1% v/v	\$4.63			50	20	30	70	100	

Application

2015 Harvest Aid Evaluation Glasscock Co Irrigated

Application Information	
Application Dates:	9/1/2015
App. Code A:	
Cooperator:	Chris Matschek
GPS Coord. 31° 43' 17" N, 100° 28' 01" W	St. Lawrence
Variety:	
Time:	5-6:30 pm
Temp (°F):	93
% RH:	
Wind Speed (mph) & Direction	4-6 mph out of South 153°
Row Spacing("):	40"
Plot width (rows)	4
Plot length	Strips 100 feet
% Open	75-80%
Plant Height (mean inches)	24"
Sprayer Information	Spider Sprayer
	10 gpa / 11002 Turbo Teejet
	32 psi
	4 mph

Weather Conditions

Daily Temperatures				
Date	Low	High	Precip.	GDD 60
9/1/2015	92.9	64.1	0	18.5
9/2/2015	93.9	63.9	0	18.9
9/3/2015	94.2	60.6	0	17.4
9/4/2015	95	66.6	0	20.8
9/5/2015	96.2	71.6	0	23.9
9/6/2015	95.2	68.1	0	21.65
9/7/2015	96.6	68.9	0	22.75
9/8/2015	97.8	72.2	0	25
9/9/2015	94	69.6	0	21.8
9/10/2015	93.7	62.1	0	17.9
9/11/2015	93.8	64.4	0	19.1
9/12/2015	88.5	66.6	0	17.55
9/13/2015	93	67.3	0	20.15
9/14/2015	92.3	65.6	0	18.95
9/15/2015	91.7	63.8	0	17.75
			Total:	302.1
Rain Total	0	inches		

Glasscock Co. Summary 14 days after treatment

- Plants were short, hardened off from weeks of hot dry weather, had leathery leaves, and open bolls.
- Many treatments performed poorly because of stressed conditions
- Boll openers were only needed at low rates or not at all because of crop condition and warm weather. No significant differences were observed between rates of ethephon.
- Ginstar treatments performed the best with the generic or mixture SC formulations scoring lower for defoliation
- PPO treatments were disappointing with low percentages of defoliation. Sharpen without ethephon was the best PPO treatment in terms of defoliation and regrowth.
- The Folex and ethephon standard treatment only defoliated 10% and regrowth was stimulated but treatments that included Finish were much better.
- The higher rate, 16 fl oz of Gramoxone SL (2lb); treatments without ethephon had about 50% defoliation and proved effective and economical. However, this treatment had the highest regrowth. The 3 and 6 fl oz of Gramoxone SL (2lb) with ethephon did not work well.



14 Day Rating

% Defoliation	55
% Desiccation	25
% Green Leaf	20
% Regrowth	40
% Open Boll	95

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	65
% Desiccation	15
% Green Leaf	10
% Open Boll	95
% Regrowth	40

Treatment Name

Ginstar
Ethephon
Non-Ionic Surfactant

Rate

4
32
0.25%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	25
% Desiccation	20
% Green Leaf	55
% Open Boll	90
% Regrowth	40

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	25
% Desiccation	25
% Green Leaf	50
% Open Boll	95
% Regrowth	40

Treatment Name

Adios
 Ethephon
 Non-Ionic Surfactant

Rate

4
 32
 0.25%

Rate Unit

fl oz/a
 fl oz/a
 v/v



14 Day Rating

% Defoliation	10
% Desiccation	20
% Green Leaf	70
% Open Boll	90
% Regrowth	40

Treatment Name

Direx
Dropp
Ethephon
Non-Ionic Surfactant

Rate

.5
1
16
0.25%

Rate Unit

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



14 Day Rating

% Defoliation	10
% Desiccation	20
% Green Leaf	70
% Open Boll	95
% Regrowth	40

Treatment Name

Direx
Dropp
Ethephon
Non-Ionic Surfactant

Rate

.5
1
32
0.25%

Rate Unit

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



14 Day Rating

% Defoliation	5
% Desiccation	20
% Green Leaf	75
% Open Boll	95
% Regrowth	50

Treatment Name

Display
Ethephon
Crop Oil Concentrate

Rate

.5
16
1%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	10
% Desiccation	15
% Green Leaf	75
% Open Boll	95
% Regrowth	50

<u>Treatment Name</u>	<u>Rate</u>	<u>Rate Unit</u>
Display	.5	fl oz/a
Ethephon	32	fl oz/a
Crop Oil Concentrate	1%	v/v



14 Day Rating

% Defoliation	10
% Desiccation	10
% Green Leaf	80
% Open Boll	95
% Regrowth	50

Treatment Name

Aim
Ethephon
Crop Oil Concentrate

Rate

.25
16
1%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	15
% Desiccation	5
% Green Leaf	80
% Open Boll	95
% Regrowth	40

Treatment Name

Aim
Ethephon
Crop Oil Concentrate

Rate

.25
32
1%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	25
% Desiccation	0
% Green Leaf	75
% Open Boll	95
% Regrowth	30

Treatment Name

Sharpen
Ams
MSO

Rate

0.75
1.70
0.50%

Rate Unit

fl oz/a
lbs/ac
v/v



14 Day Rating

% Defoliation	35
% Desiccation	20
% Green Leaf	45
% Open Boll	100
% Regrowth	60

Treatment Name

<u>Treatment Name</u>	<u>Rate</u>	<u>Rate Unit</u>
Finish	16	fl oz/a
Ethephon	16	fl oz/a
Folex	16	fl oz/a
Non-Ionic Surfactant	0.25%	v/v



14 Day Rating

% Defoliation	45
% Desiccation	20
% Green Leaf	35
% Open Boll	100
% Regrowth	60

Treatment Name

Finish
Ethephon
Folex
Non-Ionic Surfactant

Rate

16
24
16
0.25%

Rate Unit

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



14 Day Rating

% Defoliation	10
% Desiccation	30
% Green Leaf	60
% Open Boll	99
% Regrowth	50

Treatment Name

Ethephon
Folex
Non-Ionic Surfactant

Rate

16
16
0.25%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	5
% Desiccation	30
% Green Leaf	65
% Open Boll	100
% Regrowth	60

Treatment Name

Ethephon
Folex
Non-Ionic Surfactant

Rate

32
16
0.25%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	5
% Desiccation	10
% Green Leaf	85
% Open Boll	100
% Regrowth	60

Treatment Name

Gramozone SL
Ethephon
Crop Oil Concentrate

Rate

3
16
1%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	5
% Desiccation	10
% Green Leaf	85
% Open Boll	100
% Regrowth	50

Treatment Name

Gramozone SL
Ethephon
Crop Oil Concentrate

Rate

3
32
1%

Rate Unit

fl oz/a
fl oz/a
v/v



14 Day Rating

% Defoliation	50
% Desiccation	20
% Green Leaf	30
% Open Boll	100
% Regrowth	70

Treatment Name

Gramozone SL
Crop Oil Concentrate

Rate

16
1%

Rate Unit

fl oz/a
v/v

Other Pictures







