

October 2010



2010 Cotton Harvest Aids

Inside this issue: 2010 County Cotton Harvest Aid Demonstration Trials

<i>Rannels County</i> 9-10-2010	2
<i>Tom Green County</i> 9-21-10	4
<i>Jones County</i> 9-22-10	6
<i>Nolan County</i> 9-23-10	8
<i>Howard County</i> 9-24-10	10
<i>Research Trial</i> <i>San Angelo</i> 10-15-10	12
<i>Calendar and News</i>	13

County cotton harvest aid research and demonstration trials in the Rolling Plains and Southern Rolling Plains experienced a wide variety of conditions during 2010. In general, the crops were stressed during the growing season but blessed with rains just prior to and during harvest conditioning. Rains and cool weather affected conditions in several counties and yielded less than ideal results in Nolan and Howard counties. The data summary sheets include information on average high and low temperatures, precipitation, and growing degree days (GDD) during the 2 week period following harvest aid application. Many of the trials include a core standard of commonly used harvest aids and one or more locally recommended tank mix.

For more detailed information on cotton harvest aid use and recommendations refer to the AgriLife publication: 2010 High Plains and Northern Rolling Plains Cotton Harvest-Aid Guide available at <http://lubbock.tamu.edu> or <http://lubbock.tamu.edu/cotton/pdf/2010HarvestAidGuide.pdf>

I would like to acknowledge the assistance of producers, companies, USDA-ARS, Steve Estes, Zach Wilcox, and Tom Yeater, CEA's; Richard Minzenmayer, EA-IPM; and Gary Schwarzlose, Bayer Crop Science; in establishment and evaluation of these harvest aid trials.



Harvest Aid Use of BASF's Sharpen is Not Labeled.



All of the harvest aid trials included Sharpen, a new herbicide from BASF. Currently, Sharpen does not have a cotton harvest aid use and is only labeled for pre-plant and post-harvest applications, with the exception of a sunflower harvest aid use. Experimental use of Sharpen for control of Roundup Ready Cotton in the Southern Rolling Plains and in cotton harvest aid tests at other locations showed good potential for harvest aid use. The active ingredient in sharpen is saflufenacil, and is in a inhibitor of protoporphyrinogen-oxidase (ppo) in the same class of herbicides as Aim, Blizzard, ET, and Resource. Two rates 1.5 and 2 fluid ounces per acre were used and across all tests the rates were very similar when combined with Prep at 24 fluid ounces per acre. Sharpen also performed similar to the other ppo products in the tests. A complete summary will be forth coming.

2010 Harvest Aid Evaluation

Ballinger - Rick Minzenmayer

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7 Days		
					% Def	%Des	%GL
1	Ginstar	4.00	fl oz/a				
1	Prep	21.00	fl oz/a		80	0	20
1	Crop Oil Concentrate	1.00	% v/v				
2	Ginstar	4.00	fl oz/a				
2	Finish 6 Pro	21.00	fl oz/a		95	0	5
2	Crop Oil Concentrate	1.00	% v/v				
3	Ginstar	3.00	fl oz/a				
3	Dropp SC	2.00	fl oz/a		90	10	0-1
3	Finish 6 Pro	21.00	fl oz/a				
3	Non-ionic Surfactant	0.25	% v/v				
4	Prep	21.00	fl oz/a				
4	Def	21.00	fl oz/a		45	0	55
4	Non-ionic Surfactant	0.25	% v/v				
5	ET	1.50	fl oz/a				
5	Crop Oil Concentrate	1.00	% v/v		25	10	65
6	Aim	1.00	fl oz/a				
6	Crop Oil Concentrate	1.00	% v/v		10	10	80
7	Aim	1.00	fl oz/a				
7	Prep	21.00	fl oz/a		25	5	70
7	Crop Oil Concentrate	1.00	% v/v				
8	Aim	1.00	fl oz/a				
8	Finish 6 Pro	21.00	fl oz/a		55	5	40
8	Crop Oil Concentrate	1.00	% v/v				
9	Sharpen	2.00	fl oz/a				
9	Crop Oil Concentrate	1.00	% v/v		40	5	55
10	Sharpen	1.50	fl oz/a				
10	Prep	21.00	fl oz/a		45	5	50
10	Crop Oil Concentrate	1.00	% v/v				
11	Sharpen	2.00	fl oz/a				
11	Prep	21.00	fl oz/a		40	10	50
11	Crop Oil Concentrate	1.00	% v/v				
12	Gramoxone Inteon	24.00	fl oz/a				
12	Crop Oil Concentrate	1.00	% v/v		0	98	2

2010 Harvest Aid Evaluation

Ballinger - Rick Minzenmayer

Application Information	
Application Dates:	
App. Code A:	9/10/2010
Cooperator:	Paul Minzenmayer
Variety:	FM 9160 B2F
Time:	11:30 AM
Temp (°F):	88
% RH:	60%
Wind Speed (mph) & Direction	7 mph / SW
Row Spacing("):	40"
Plot width (rows)	4 rows
Plot length	150 feet
% Open	50% OB
Plant Height (mean inches)	26-30 inches
Addnl Comment:	crop received the final application before the 14th day evaluation
	Ave high temp.: 95 Ave low temp.: 73
	GDD:183 Precipitation: 0.12

San Angelo - Wilde Farms - Rick Minzenmayer

Trt No.	Treatment Name	Rate	Rate Unit	7 Days			14 days			
				% Def	%Des	%GL	% Def	%Des	%GL	% Term.
										Re-growth
1	Ginstar	4.00	fl oz/a							
1	Dropp SC	2.00	fl oz/a	60	20	20	85	5	10	10
1	Finish 6 Pro	24.00	fl oz/a							
1	Non-Ionic Surfactant	0.25	% v/v							
2	Ginstar	4.00	fl oz/a							
2	Prep	24.00	fl oz/a	60	15	25	83	2	15	20
2	Non-Ionic Surfactant	0.25	% v/v							
3	Ginstar	4.00	fl oz/a							
3	Finish 6 Pro	24.00	fl oz/a	65	25	10	90	2	8	10
3	Non-Ionic Surfactant	0.25	% v/v							
4	Ginstar	6.00	fl oz/a							
4	Finish 6 Pro	24.00	fl oz/a	70	25	5	87	1	12	20
4	Non-Ionic Surfactant	0.25	% v/v							
5	Ginstar	8.00	fl oz/a							
5	Finish 6 Pro	24.00	fl oz/a	65	30	5	94	1	5	20
5	Non-Ionic Surfactant	0.25	% v/v							
6	Def	16.00	fl oz/a							
6	Finish 6 Pro	24.00	fl oz/a	60	30	10	77	3	20	35
6	Non-Ionic Surfactant	0.25	% v/v							
7	Def	16.00	fl oz/a							
7	Prep	24.00	fl oz/a	45	20	35	75	0	25	60
7	Non-Ionic Surfactant	0.25	% v/v							
8	Finish 6 Pro	32.00	fl oz/a							
8	Non-Ionic Surfactant	0.25	% v/v	45	15	40	84	1	15	30
9	Ginstar	2.00	fl oz/a							
9	Finish 6 Pro	32.00	fl oz/a	40	20	40	79	1	20	5
9	Non-Ionic Surfactant	0.25	% v/v							
10	Prep	32.00	fl oz/a							
10	Non-Ionic Surfactant	0.25	% v/v	15	10	75	39	1	60	0
11	Finish 6 Pro	16.00	fl oz/a							
11	Prep	32.00	fl oz/a	65	25	10	86	2	12	0
11	Non-Ionic Surfactant	0.25	% v/v							

12	Finish 6 Pro	16.00	fl oz/a									
12	Prep	16.00	fl oz/a		45	20	35		54	1	45	45
12	Non-Ionic Surfactant	0.25	% v/v									
												12
13	Aim	1.00	fl oz/a									
13	Finish 6 Pro	24.00	fl oz/a		45	5	50		69	1	30	50
13	Non-Ionic Surfactant	0.25	% v/v									
14	Aim	1.00	fl oz/a									
14	Prep	24.00	fl oz/a		20	5	75		38	2	60	70
14	Non-Ionic Surfactant	0.25	% v/v									
15	Blizzard	0.50	fl oz/a									
15	Prep	24.00	fl oz/a		20	30	50		67	3	30	80
15	Crop Oil Concentrate	1.00	% v/v									
16	ET	1.50	fl oz/a									
16	Prep	24.00	fl oz/a		20	35	45		78	2	20	0
16	Crop Oil Concentrate	1.00	% v/v									
17	Sharpen	1.50	fl oz/a									
17	Prep	24.00	fl oz/a		25	35	40		70	10	20	40
17	Crop Oil Concentrate	1.00	% v/v									
18	Sharpen	2.00	fl oz/a									
18	Prep	24.00	fl oz/a		35	35	30		70	15	15	20
18	Crop Oil Concentrate	1.00	% v/v									
19	Aim	0.75	fl oz/a									
19	Gramoxone Inteon	24.00	fl oz/a		10	85	5		68	30	2	0
19	Crop Oil Concentrate	1.00	% v/v									
20	Gramoxone Inteon	16.00	fl oz/a									
20	Non-Ionic Surfactant	0.25	% v/v		5	85	10		20	70	10	40
21	Ginstar	3.00	fl oz/a									
21	Gramoxone Inteon	3.00	fl oz/a									
21	Prep	24.00	fl oz/a		50	20	30		60	10	30	40
21	Non-Ionic Surfactant	0.25	% v/v									

Ave: Temp. High:84 Low: 60 GDD:157 Precip: 0.96

Application Information	
Application Dates:	
App. Code A:	9/21/2010
Cooperator:	John Wilde
Variety:	FM 1740 B2F
Time:	10:45 am - 12:00 pm
Temp (°F):	77
% RH:	66%

Wind Speed (mph) & Direction		8 mph / SE	
GPA / Spray Tip		11 gpa	Turbo TeeJet
Row Spacing("):		40"	
Plot width (rows)		4 rows	
Plot length		150 feet	
% Open		60% OB	
Plant Height (mean inches)		30 - 36 inches	

2010 Harvest Aid Evaluation
Stamford - Steve Estes

				14 days after treatment			
Trt No.	Treatment Name	Rate	Rate Unit	% Def	%Des	%GL	% Term. Regrowth
1	Ginstar	6.00	fl oz/a	60	75	15	5
1	Non-Ionic Surfactant	0.25	% v/v				
2	Prep	24.00	fl oz/a	45	30	55	8
2	Def	16.00	fl oz/a				
2	Non-Ionic Surfactant	0.25	% v/v				
3	Finish 6 Pro	24.00	fl oz/a	15	5	70	7
3	Non-Ionic Surfactant	0.25	% v/v				
4	Ginstar	4.00	fl oz/a	60	70	10	3
4	Finish 6 Pro	21.00	fl oz/a				
4	Non-Ionic Surfactant	0.25	% v/v				
5	Ginstar	4.00	fl oz/a	65	80	5	3
5	Prep	21.00	fl oz/a				
5	Non-Ionic Surfactant	0.25	% v/v				
6	Aim	1.00	fl oz/a	35	40	55	4
6	Prep	21.00	fl oz/a				
6	Crop Oil Concentrate	1.00	% v/v				
7	ET	1.50	fl oz/a	40	40	40	4
7	Prep	21.00	fl oz/a				
7	Non-Ionic Surfactant	1.00	% v/v				
8	Blizzard	0.50	fl oz/a	35	50	60	5
8	Prep	21.00	fl oz/a				
8	Crop Oil Concentrate	1.00	% v/v				
9	Blizzard	0.60	fl oz/a	45	50	40	4
9	Prep	32.00	fl oz/a				
9	Diplomat (COC)	8.00	fl oz/a				
10	Sharpen	1.50	fl oz/a	20	35	70	6
10	Prep	21.00	fl oz/a				
10	Crop Oil Concentrate	1.00	% v/v				
11	Sharpen	2.00	fl oz/a	25	40	60	4
11	Prep	21.00	fl oz/a				
11	Crop Oil Concentrate	1.00	% v/v				
12	Aim	0.75	fl oz/a	10	95	3	4
12	Gramoxone Inteon	16.00	fl oz/a				
12	Crop Oil Concentrate	1.00	% v/v				
13	Gramoxone Inteon	16.00	fl oz/a	10	95	5	6
13	Crop Oil Concentrate	1.00	% v/v				

Application Information	
Application Dates:	
App. Code A:	9/22/2010
App. Code B:	
Cooperator:	Chub
Variety:	Phytogen
Time:	2:30 pm - 5:00 pm
Temp (°F):	88
% RH:	
Wind Speed (mph) & Direction	10 + mph / SW
GPA / Spray Tip	15 gpa flat fans 8002
Row Spacing("):	40"
Plot width (rows)	2 rows (skip row)
Plot length	150 feet
% Open	50% OB
Plant Height (mean inches)	24 - 30 inches
Addnl Comment:	control skips
rained 2.5 inches 2 days after app	2 and 1 skip row
Average Temp.	High: 80 Low: 60 GDD:142

2010 Harvest Aid Evaluation

Roscoe- - Zac Wilcox

				14 days			
Trt No.	Treatment Name	Rate	Rate Unit	% Def	%Des	%GL	% Term. Regrowth
1	Ginstar	6.00	fl oz/a				
1	Non-Ionic Surfactant	0.25	% v/v	50	60	25	6
2	Prep	24.00	fl oz/a				
2	Def	16.00	fl oz/a	30	40	50	7
2	Non-Ionic Surfactant	0.25	% v/v				
3	Finish 6 Pro	24.00	fl oz/a				
3	Non-Ionic Surfactant	0.25	% v/v	5	15	90	6
4	Ginstar	4.00	fl oz/a				
4	Finish 6 Pro	21.00	fl oz/a	20	35	60	4
4	Non-Ionic Surfactant	0.25	% v/v				
5	Ginstar	4.00	fl oz/a				
5	Prep	21.00	fl oz/a	45	35	15	4
5	Non-Ionic Surfactant	0.25	% v/v				
6	Aim	1.00	fl oz/a				
6	Prep	21.00	fl oz/a	5	35	65	6
6	Crop Oil Concentrate	1.00	% v/v				
7	ET	1.50	fl oz/a				
7	Prep	21.00	fl oz/a	30	45	35	6
7	Non-Ionic Surfactant	1.00	% v/v				
8	Blizzard	0.50	fl oz/a				
8	Prep	21.00	fl oz/a	30	60	30	6
8	Crop Oil Concentrate	1.00	% v/v				
9	Aim	1.50	fl oz/a				
9	Prep	21.00	fl oz/a	25	50	30	6
9	Crop Oil Concentrate	1.00	% v/v				
10	Sharpen	1.50	fl oz/a				
10	Prep	21.00	fl oz/a	30	80	20	5
10	Crop Oil Concentrate	1.00	% v/v				
11	Sharpen	2.00	fl oz/a				
11	Prep	21.00	fl oz/a	25	50	30	5
11	Crop Oil Concentrate	1.00	% v/v				
12	Aim	0.75	fl oz/a				
12	Gramoxone Inteon	16.00	fl oz/a	30	85	15	6
12	Crop Oil Concentrate	1.00	% v/v				
13	Gramoxone Inteon	16.00	fl oz/a				
13	Crop Oil Concentrate	1.00	% v/v	5	20	85	5

Application Information	
Application Dates:	
App. Code A:	9/23/2010
App. Code B:	
Cooperator:	Don Martin
Variety:	
Time:	12:15 - 3:00
Temp (°F):	82
% RH:	67%
Wind Speed (mph) & Direction	10 + mph 174° S
GPA / Spray Tip	15 gpa flat fans 8002
Row Spacing("):	40"
Plot width (rows)	4 rows
Plot length	150 feet
% Open	3/15/1900
Plant Height (mean inches)	1/30/1900
Addnl Comment:	
Rained the day prior and immediately after applying	
Average Temp	High: 79 Low: 57 GDD: 102

2010 Harvest Aid Evaluation

Big Spring - USDA Farm - Tom Yeater

Trt No.	Treatment Name	Rate	Rate Unit	Ratings at 14 days†			
				% Def.	% Des.	% G. Leaf	Re-growth
1	Ginstar	6.00	fl oz/a	30	25	65	3
1	Non-Ionic Surfactant	0.25	% v/v				
2	Prep	24.00	fl oz/a	35	30	60	8
2	Def	16.00	fl oz/a				
2	Non-Ionic Surfactant	0.25	% v/v				
3	Ginstar	4.00	fl oz/a	20	20	70	8
3	Finish 6 Pro	21.00	fl oz/a				
3	Non-Ionic Surfactant	0.25	% v/v				
4	Ginstar	4.00	fl oz/a	25	20	65	8
4	Prep	21.00	fl oz/a				
4	Non-Ionic Surfactant	0.25	% v/v				
5	Aim	1.00	fl oz/a	25	35	60	7
5	Prep	24.00	fl oz/a				
5	Crop Oil Concentrate	1.00	% v/v				
6	ET	1.50	fl oz/a	40	40	55	8
6	Prep	24.00	fl oz/a				
6	Crop Oil Concentrate	1.00	% v/v				
7	Blizzard	0.50	fl oz/a	35	40	55	7
7	Prep	24.00	fl oz/a				
7	Crop Oil Concentrate	1.00	% v/v				
8	Sharpen	1.50	fl oz/a	25	25	70	8
8	Prep	24.00	fl oz/a				
8	Crop Oil Concentrate	1.00	% v/v				
9	Sharpen	2.00	fl oz/a	25	30	70	8
9	Prep	24.00	fl oz/a				
9	Crop Oil Concentrate	1.00	% v/v				
10	Aim	0.75	fl oz/a	40	60	25	9
10	Gramoxone Inteon	16.00	fl oz/a				
10	Crop Oil Concentrate	1.00	% v/v				
11	Gramoxone Inteon	16.00	fl oz/a	35	50	40	10
11	Crop Oil Concentrate	1.00	% v/v				
12	Aim	0.75	fl oz/a	25	30	70	8
12	Prep	24.00	fl oz/a				
12	Gramoxone Inteon	2.00	fl oz/a				
12	Crop Oil Concentrate	1.00	% v/v				

13	Prep	24.00	fl oz/a	25	30	75	10
13	Def	6.00	fl oz/a				
13	Gramoxone Inteon	2.00	fl oz/a				
13	Non-Ionic Surfactant	0.25	% v/v				
14	Aim	0.5	fl oz/a	20	30	85	9
14	Prep	24.00	fl oz/a				
14	Def	4.00	fl oz/a				
14	Crop Oil Concentrate	1.00	% v/v				

Application Information

† Visual Ratings 14 days after application
 % Def - percent leaf loss compared to untreated check
 % Des - percent of retained leaves that are desicated
 % G. Leaf - percent of retained leaves that are green
 Regrowth - rating of plant regrowth form terminal and axillary buds. Scale from 0- 10; 0= none
 10 = significant leaf area at all buds

Date	9/24/2010	
Cooperator:	USDA	
Variety:	FiberMax 9063	
Time:	9:22-11:00 am	
Temp (°F):	77	
% RH:	59%	
Wind Speed (mph) & Direction	3-6 98 E	
GPA / Spray Tip	15 gpa	flat fans 8002
Row Spacing("):	40"	
Plot width (rows)	4 rows	
Plot length	150 feet	
% Open	90	
Plant Height (mean inches)	24-36	
Addnl Comment:	6 " regrowth on top	
Rained 12 hours after application	Precipitation: 0.14	
Average Temps: High 88 Low 75	GDD 138	

2010 Harvest Aid Evaluation
 San Angelo, TX Michael Block Farm

Trt No.	Treatment Name	Rate	Rate Unit	7 days			14 days†			
				% Def	%Des	%GL	% Def	%Des	%GL	% Term. Re-growth
1	Aim	1.00	fl oz/a							
1	Prep	24.00	fl oz/a	21	14	65	31	10	59	57
1	Non-Ionic Surfactant	0.25	% v/v							
2	Prep	24.00	fl oz/a							
2	Def	16.00	fl oz/a	34	11	55	45	8	47	58
2	Non-Ionic Surfactant	0.25	% v/v							
3	Sharpen	1.50	fl oz/a							
3	Prep	24.00	fl oz/a	24	20	76	41	13	46	42
3	Non-Ionic Surfactant	0.25	% v/v							
4	Control	-	-	4	6	90	2	4	94	59

† Visual Ratings 14 days after application
 Average of 4 replications
 % Def - percent leaf loss compared to untreated check
 % Des - percent of retained leaves that are dessicated
 % G. Leaf - percent of retained leaves that are green
 Terminal Regrowth - percent of plants with actively growing terminals.

Date	10/15/2010
Cooperator:	Micheal Block
Variety:	
Time:	6:00 PM
Temp (°F):	84
% RH:	21%
Wind Speed (mph) & Direction	8 SE
GPA / Spray Tip	15 gpa flat fans 8002
Row Spacing("):	40"
Plot width (rows)	4 rows
Replications Exp. Design	4 RCBD
Plot length	40 feet
% Open	61%
Plant Height (mean inches)	36-40
Addnl Comment:	
Drip Irrigated	

David R. Drake, Ph.D.
 Extension Agronomist
 Texas AgriLife Extension - San Angelo
 7887 US Hwy 87 N.
 San Angelo, TX 76901

Phone: 325-653-4576

Fax: 325-655-7791

E-mail: drdrake@ag.tamu.edu

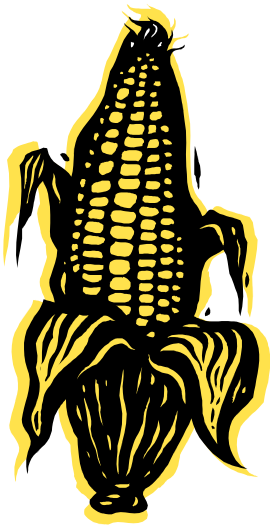
Website: <http://sanangelo.tamu.edu>



Improving Lives. Improving Texas.

Extension programs of Texas AgriLife Extension Service are open to all citizens without regard to race, color, sex, religion, disability or national origin. This information is for educational purposes only. References to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by Texas AgriLife Extension Service is implied. Mention of a trademark or a proprietary product does not constitute an endorsement of the product by Texas AgriLife Extension Service and does not imply its approval to the exclusion of other products that also may be suitable. The Texas A&M University System, U.S. Department of Agriculture and the County Commissioners Courts of Texas Cooperating.

New USDA Websites and Reports



ASK THE EXPERT

The USDA has launched a new consolidated website to provide answers to questions that include farm programs, food safety, and scientific topics. The site included information from the ASKFSA and ASKKAREN for “one stop shopping” <http://www.usda.gov/askexpert>.

ADOPTION OF GE CROPS

A new report tracks the adoption of genetically engineered (GE) crops in the US by crop and by state.. Find the report at <http://www.ers.usda.gov/Data/BiotechCrops/>



Calender:

- November 10th AgriLife CEU Workshop Pecos County
- November 14-16 Texas Seed Trade Fall Convention—San Antonio
- November 18th AgriLife CEU Workshop Schleicher County
- November 19th Bes-Tex CEU Workshop—San Angelo
- November 29-30 D-06 and D-07 Experimental Ginning of Cotton Samples-Lubbock
- December 1-2 Cotton Texas State Support Meeting-Lubbock
- December 6-7 TPPA Conference—College Station