

WEST
PLAINS
IPM
UPDATE

News about
Integrated Pest
Management in
Hockley,
Cochran, and
Lamb Counties
from
Kerry Siders

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IMPACT OF FREEZE

We received our first freeze over much of Hockley, Cochran and Lamb Counties on Friday morning, October 11 from 6am until 7am with a low of 32°F; and again, on Saturday morning, October 12 from 2am until 8am, with a low of 29°F. These freezing temperatures were recorded in Levelland by me, National Weather Service Observer for Levelland. As you move south and east of Levelland the temperatures were not as low for as long, and as you move north, and west temperatures may have been lower for longer. I think we could all smell the effects of the freeze on plant tissue since then.

The corn, grain sorghum and sunflower acres are now in that dying process and will dry down with the current open sunny weather. Peanut harvest should now be moved along at a quicker pace. Cotton was freeze injured in most areas to a point where boll opening from ethephon products and defoliation products will not work very well. I think we are limited to using paraquat products to further injury bolls to increase opening, and dessicating any remaining green tissue remaining on the plant. Unfortunately, this may stick some leaves. For dryland, small statured plants I think 24 oz of a 2 lb paraquat product like Gramoxone, should be enough. Whereas, on a much larger plants 32 oz would be suggested.

Call if you have questions. Kerry

Here is the link to the cotton harvest aid guide:

<http://lubbock.tamu.edu/files/2017/08/2017-High-Plains-Cotton-Harvest-Aid-Guide.pdf> .



Figure 1 Freeze conditioned cotton near Levelland.



Figure 2 Cotton near Arnett, injured, little green tissue.



Figure 3 Leaves should continue to come off.



Figure 4 Cracked bolls from freeze injury.

Table 1. Results of cotton harvest-aid treatments at Ronnie Alexander - Rodeo Ground Farm, Levelland, Texas, 2019.

| Treatment | Green Leaf % 6 DAT | Dessicated Leaf % 6 DAT | Defoliated Leaf % 6 DAT | Open Boll % 6 DAT | Re-growth 6 DAT | Green Leaf % 9 DAT | Dessicated Leaf % 9 DAT | Defoliated Leaf % 9 DAT | Open Boll % 9 DAT | Re-growth 9 DAT |
|---|-----------------------|----------------------------|----------------------------|----------------------|--------------------|-----------------------|----------------------------|----------------------------|----------------------|--------------------|
| Gramoxone 40 oz + 1/2% NIS | 0 | 50 | 50 | 98 | 0 | 0 | 18 | 82 | 100 | 0 |
| Gramoxone 20oz + Aim 1oz + Prep 32oz + 1% COC | 2 | 20 | 78 | 98 | 0 | 0 | 9 | 91 | 100 | 0 |
| Sharpen 1oz + Prep 32oz + 1% MSO + 1.5% AMS | 10 | 5 | 85 | 92 | 0 | 0 | 3 | 97 | 99 | 0 |
| ETX 1.25oz + Prep 32oz + 1% COC | 8 | 2 | 90 | 90 | 1 | 0 | 4 | 96 | 99 | 0 |
| Display 0.8oz + Prep 32oz + 1% COC | 5 | 5 | 90 | 92 | 0 | 0 | 3 | 97 | 99 | 0 |
| Ginstar 8oz + Prep 32oz + 1/2% NIS | 10 | 0 | 90 | 90 | 0 | 0 | 5 | 95 | 95 | 0 |
| Check | 90 | 0 | 10 | 78 | 0 | 0 | 88 | 12 | 85 | 0 |

DAT = Days after treatment on October 5, 2019.
15 gal/acre,

4 nodes above cracked boll at application.

COC=Crop Oil Concentrate ; MSO=Methylated Seed Oil

NIS=90% Non-ionic Surfactant

Regrowth (0-4) 0=none 4=not harvestable due to regrowth

Freeze occurred on Oct. 11th 6-7 am 32 degrees F; hard freeze Oct. 12th 2-8 am <32 degrees F, low 29 degrees F.

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