

Corn and Grain Sorghum Weekly Update – May 13, 2016

2016 Update No 8

Section 18 Emergency Exemption Granted for Transform WG in Grain Sorghum for Control of Sugarcane Aphid in 2016 – Dr. Nick Seiter (Extension Entomologist)

Arkansas has been granted a Section 18 emergency exemption for the use of Transform WG (sulfoxaflor) in grain sorghum to control the sugarcane aphid in 2016. As in 2014 and 2015, an exemption was granted due to the severe injury caused by this pest and the limited number of chemistries available for control. Full details on the exemption label can be found at <http://plantboard.arkansas.gov/Pesticides/Pages/PesticideRegistration.aspx>. Several changes have been made to this year's exemption by the EPA, specifically:

- Only two applications of Transform WG per year are allowed in sorghum in 2016, regardless of the rate used; in 2015, three applications were allowed if the seasonal total did not exceed 3 oz/acre.
- The 2016 exemption does not allow applications from 3 days prior to bloom until seed has set (basically during the flowering period). This is a new restriction based on concerns about pollinating insects.

As in 2014 and 2015, the rates allowed under the exemption for an individual application are from 0.75-1.5 oz/acre and the seasonal use limit is 3.0 oz/acre. Under the Section 18 emergency exemption, applicators must be in possession of a copy of the Transform WG Exemption Labeling at the time of application, and a report of the application must be filed with the Arkansas State Plant Board within 10 days. As in previous years, the emergency exemption is temporary and will expire on April 8, 2017.

Corn and Grain Sorghum Research Verification – Kevin Lawson (Corn & GS Verification Coordinator)

All of the corn verification fields have finally emerged. It took 11 days for the verification fields to emerge this year. In 2015, it took 8 days and the five year average is 9 days. Growth stages range from V8 in Lincoln County to V1 in Clay County. The fields that are finished up with sidedress and herbicide applications are laying polypipe in anticipation of irrigations. The Lincoln County field is closing in on 1000 heat units and a pre tassel application of urea is not far off. The St Francis County field is looking better as it recovers from some kind of herbicide drift. The plants are still stunted compared to other parts of the field, but overall the corn is growing and has a good green color. The Halex GT plus atrazine herbicide application is working on the pigweeds. Both the Prairie County and River Valley fields have taken in the fertilizer and have started to turn the corner to rapid growth. Untimely rains kept me out of

the Pope and Clay County fields this week, as both are hard to get to when the roads are wet. Both should be receiving sidedress and herbicide applications after this rain.

All of the grain sorghum fields have been planted. Average planting date for 2016 was April 29. In 2015 the average planting date was May 1 and the five year grain sorghum verification average is April 23. The White County field is the farthest along. When the field was scouted May 11, a paraquat drift was noticed on the north side of the field. With good growing conditions, the field should grow out of it. The main problem with this drift was the field needed to be sprayed with atrazine for pigweeds. Since some of the plants were stressed by the drift, it was decided to wait a few days and then spray. Also a few cutworms were noticed in the field, but not enough to justify an insecticide application. Lawrence County was planted on May 8 and hopefully will be emerged in the next few days.

County	Hybrid	Growth Stage	Heat Units	Comments
Clay	Pioneer 1637YHR	V1	316	Field emerged on May 7. Rain prevented scouting. Plant populations next week.
Lincoln	DKC 66-87 VT2P	V8	857	Field is growing well. Discuss pre tassel next week. (Scouted May 13)
Pope	Pioneer 1319HR	V2	299	Rain prevented scouting. Plant populations next week and discuss timing of sidedress and herbicide.
Prairie	Armor 1555PRO2	V6	687	Field is growing well. Recommended atrazine plus oil then lay out polypipe. (Scouted May 11)
River Valley	Terral REV 23BHR55	V5	513	Field is growing well. Polypipe has been laid out and the field is ready for irrigation. (Scouted May 9)
St Francis	Pioneer 2089YHR	V7	737	Field has greened up and growing well. Applied Halex GT + atrazine on May 5. (Scouted May 11)

County	Hybrid	Growth Stage	Comments
Jefferson	Armor Maverick	V2	Field emerged May 8. Applied 1.5 pts of metolachlor on May 9. Plant populations next week. (Scouted May 13)
Lawrence	DeKalb DKS 51-01	Planted	Field was planted May 8 at 85,000 seeds per acre. Applied 46-0-90 and bedded into rows.
White	Pioneer 83P99	V3	The north of the field has a paraquat drift that it should be able to grow out of. Recommended 1.2 qts of atrazine plus oil after the plants recover. (Scouted May 11)

Southeast Arkansas Update – Kevin Norton (Ashley County)

What a difference a week of sunshine and dry weather makes. Corn is growing rapidly. Most all producers have finished fertilizer and herbicide applications on early plantings, replants are at 3 leaf stage. Some irrigation pipe is laid.

Central Arkansas Update – Brett Gordon (White County)

We are wet again in White County as thunderstorms moved across the area this morning (5/12). All of the corn has received herbicide applications. Sidedress nitrogen applications have been made as well. Many growers will now be looking to lay polypipe in preparation of irrigation. Overall, the crop looks good.

Northeast Arkansas Update – Stewart Runsick (Clay County)

Most of the corn is growing rapidly and looks good following the sidedress nitrogen applications last week. I have been getting calls on nutrient deficiencies mainly zinc and sulfur. A lot of it is that the corn took off and is growing so fast from the warm temperatures and rainfall. I am also seeing the effects of uneven emergence with different size plants in the same fields. We have received excessive amounts of rain the past few days.

River Valley Update – Kevin VanPelt (Conway County)

Most parts of the River Valley had an inch or less of rain first part of the week and another 3/4" Thursday (5/12) morning. Just about everyone has finished getting out their sidedress nitrogen and herbicide applications. Some of the corn hybrids were turning purple the end of last week due to the cool temperatures, but have greened back up.

Heat Units

Heat units were back up this week as warmer temperatures came into the state. Wednesday May 11 was the first day this year that heat units were in the high 20's across the state hitting 28 and 29. Corn is starting to look better in the state as it responds to these higher temperatures.

	Southeast, AR (Dumas)		Central, AR (Des Arc)		Northeast, AR (Jonesboro)		River Valley (Morrilton)	
	2016	30 Year	2016	30 Year	2016	30 Year	2016	30 Year
May 7	17.5	20.0	17.0	18.5	22.0	16.0	17.0	15.5
May 8	22.5	20.0	17.5	18.5	22.0	16.0	16.5	16.5
May 9	22.0	20.5	17.5	19.0	21.5	16.5	16.0	16.5
May 10	28.0	20.5	22.0	19.5	22.5	17.0	23.0	16.5
May 11	27.5	21.0	27.5	19.5	29.0	17.0	28.0	16.5
May 12	19.0	21.0	15.5	20.0	15.5	17.5	15.5	17.5
May 13	20.5	21.5	20.0	20.5	20.0	18.0	19.5	17.5
Total for Week	157	145	137	136	153	118	136	117
Total Since March 28	796	719	719	648	682	565	716	583

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Row Crop Verification @ar_verification

University of Arkansas Systems Division of Agriculture Cooperative Extension Service Web Pages

Extension Corn Webpage – www.uaex.edu/corn

Extension Grain Sorghum Webpage – www.uaex.edu/grain-sorghum

Row Crop Verification Webpage – www.uaex.edu/verification

Corn & Grain Sorghum Verification Webpage – www.uaex.edu/cgsrvp