

Plant & Soil Sciences

Mar. 4, 2011—Vol. 4 Issue 6

Extension Newsletter



In this issue...

- Photographs needed for NPK website
- First hollow stem update
- TX Leaf rust update
- Upcoming Events

Attention all photogs

By Brian Arnall

We need the help of the states talented photographers to build a collection of images that depict nutrient deficiencies. Images are needed for the NPK website and educational materials. The goal is to have several images of each nutrient deficiency in each crop grown in Oklahoma.

We need close ups and panoramas. The deficiencies can be in the wheat crop or your neighbor's roses. The description of each nutrient deficiency will be made available online along with the pictures that you submit. The pictures will also include field descriptions and location, if available, along with the photographer's name. If you wish remain to be anonymous that is fine.

So we are not flooded with pictures, only send your best two of each topic. For some of the more interesting images I will offer free soil testing to gain more information about the situation. To make this even more interesting I am going to award the owner of the best photo a coat and hat. If there are enough pictures submitted I will award the best of each deficiency.



The winning images will be featured in the newsletter at the end of the year. If you happen to wander across an unknown deficiency, snap a picture anyways, you can still send it even if you are unsure of what it is about. Digital photos are preferred and the higher the resolution the better. If you have good pictures taken with a 35mm they will also work. Feel free to contact me if you have any questions. If you already have good pictures send them my way, if not don't worry just keep your eyes open and camera batteries charged.

Dr. Arnall can be reached at b.arnall@okstate.edu



First hollow stem update

By Jeff Edwards

Several more varieties reached first hollow stem at Stillwater this week and several more are very close. Keep in mind that if a variety is only 0.2 cm (1/16 of an inch) away from first hollow stem, it will reach first hollow stem within a couple of days.

Any variety that has ≥ 1 cm of hollow stem today will likely be well past first hollow stem by the end of this week. It is likely that even late-to-first hollow stem varieties such as Endurance will be a first hollow stem by the middle of next week. If you farm in the Panhandle, your wheat will likely be about one week behind the numbers I report from Stillwater.

Remember that to check in your own fields, you must check in a non-grazed area of wheat of the same variety and with the same planting date as the field in question. Split open stems and if 1.5 cm of hollow stem is present (about the diameter of a dime) the field is at first hollow stem and it is time to remove cattle.

Jeff Edwards can be reached at jeff.edwards@okstate.edu



First hollow stem measured in wheat sown 09/20/2010 at El Reno, OK and 09/14/2010 at Stillwater, OK. Shaded cells or cells with a + are at or past first hollow stem.

| | El Reno 03/01/2011 | Stillwater 03/03/2011 |
|-------------|--------------------------|--------------------------|
| | '---cm of hollow stem--- | |
| 2174 | - | 0.6 |
| Armour | 0.9 | 1.3 |
| Aspen | - | 0.6 |
| Bill Brown | - | 2.1 |
| Billings | 1.6 | + |
| Centerfield | 0.2 | 0.9 |
| Deliver | 0.8 | 0.8 |
| Doans | 0.6 | 0.9 |
| Duster | 0.6 | 1.0 |
| Endurance | 0.3 | 0.8 |
| Everest | 1.4 | + |
| Fannin | 1.5 | + |
| Fuller | 2.8 | + |
| Garrison | 1.2 | + |
| Greer | + | + |
| Guymon | - | + |
| Hatcher | - | 0.9 |
| Jackpot | 1.2 | + |
| Jagger | 0.6 | + |
| Mace | - | 0.6 |
| OK Bullet | 0.7 | 1.8 |
| OK Rising | - | 1.2 |
| Overley | 1.3 | + |
| Pete | 1.2 | 1.2 |
| Ruby Lee | - | 1.6 |
| Santa Fe | 0.8 | 2.3 |
| Shocker | 1.6 | 1.7 |
| T158 | - | 1.7 |
| TAM 111 | - | 0.7 |
| TAM 112 | - | + |
| TAM 203 | 1.2 | 3.1 |
| TAM 401 | 1.6 | + |
| WB-Cedar | 0.9 | 1.0 |
| WB-Stout | 0.8 | 2.3 |
| Winterhawk | - | 0.9 |

- variety not tested at this site

Texas leaf rust update

Information provided by Robert Duncan, Texas Small Grains Extension Specialist

Texas Rust Update – March 4th 2011

Severe leaf rust was identified on March 3rd 2011, in commercial production fields in the Texas Counties of Colorado and Wharton. (Southwest of Houston). The two main varieties planted in the area were Fannin and Jackpot. Leaf rust incidence was 80-100% on hundreds of acres of Jackpot. No leaf rust was found in the variety Fannin. Wheat growth stages ranged from Feekes 6.0 to Feekes 7.0. Fungicide applications had begun in these counties and there were reports of fungicide applications further south in Jackson County.

As of the last weekend in February, no rust had been found in Castroville (Rex Herrington and Amir Ibrahim). Leaf rust has also been reported in Yoakum, TX on Weathermaster and in McGregor, Texas on TAM 112 and Jagalene.

At this point, no stripe rust has been found. I will keep you posted as the leaf rust progresses.

Upcoming Events

Winter Canola field tours

- April 11, 2011 10 AM - Alfalfa County
2 PM - Kingfisher County
5 PM Canadian County
- April 12, 2011 9 AM - Harmon/Jackson County
1 PM - Comanche County
3 PM - Cotton County
6 PM - Stephens County
- April 13, 2011 9 AM - Noble County
1 PM - Oklahoma County
4 PM - Grady County
- April 14, 2011 9 AM - Dewey County
1 PM - Blaine County
3:30 PM - Major County
6:30 PM - Garfield County

Sustainable Ag Summit

- April 19 & 20, 2011 OSU Wes Watkins Center, Stillwater

Wheat Field Days

- May 5, 2011 10 AM - Canadian County

Subscription Information

To receive an electronic copy of the OSU Plant and Soil Sciences Extension Newsletter, contact Jeff Edwards at jeff.edwards@okstate.edu.

Please include "Newsletter Subscription" and your name in the subject line