

Fusarium Head Blight

“A Grower’s Perspective”



Laird Larson Clark, South Dakota

- § Farmer
- § Certified Seed Producer/Dealer
- § Continuous Student of the Cooperative Extension Service

- § Producer Representative, U.S. Wheat & Barley Scab Initiative
- § Vice Chair, South Dakota Foundation Seed Stocks
- § Past Chair, South Dakota Wheat Commission
- § Past Chair, Northern Crops Institute, Fargo ND
- § Past Chair, South Dakota Crop Improvement Association
- § Past Chair, SDSU Northeast Research Farm

DON

FHB

Deoxynivalenol

Fusarium Head Blight

Vomitoxin

Scab



DON

FHB

Deoxynivalenol

Fusarium Head Blight

Vomitoxin

Scab

DISCOUNTS!!!!

**“Wheat sells like diamonds ...
... there are discounts for everything!”**

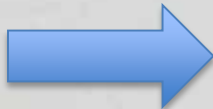
*Randy Englund
Past Executive Director
SD Wheat Commission*



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CONTRACT	SHEET#	BUSHEL	PRICE	EXTENSION
		5,028.97	5.050	\$25,396.30
TOTAL:		5,028.97		\$25,396.30
		DAMAGE		\$653.77-
		GRAIN ASSESSMENT		\$101.59-
		PROTEIN		\$150.87-
		VOMITOXIN		\$502.90-
		SETTLEMENT AMOUNT:		\$23,987.17



Producers Welcome

 ***Wheat
Walks***

***Thursday, May 29
1:30 MT, 2:30 pm Central***

**Grower
Questions
?**



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PROBLEMS
SOLVED
HERE



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EDITORIAL: Extension cuts hit rural residents

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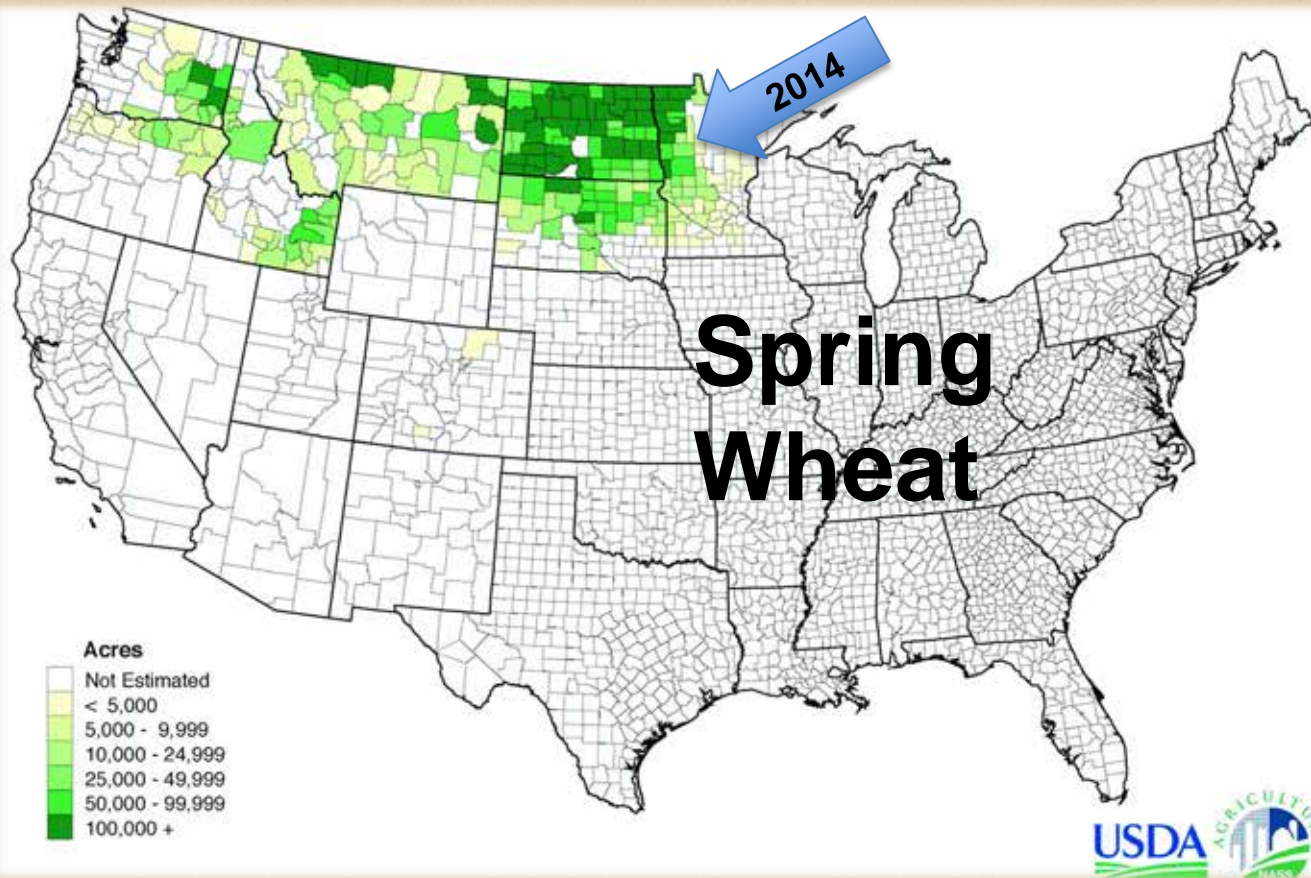
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October 06, 2011 7:30 am • Journal editorial board

Rural residents may be getting the impression that their way of life is under assault. First, the U.S. Postal Service wants to close small rural post offices, and in two weeks county Extension offices





Scab Resistance



.... Breeder Priority ?

Plot	Name	DON ppm
115	SD08080	4.2
206	SD08080	1.8
345	SD08080	2.9
135	SD08200	10.3
239	SD08200	6.7
315	SD08200	7.8

Varietal Differences ?



Spraying ...

... What ?

... When ?



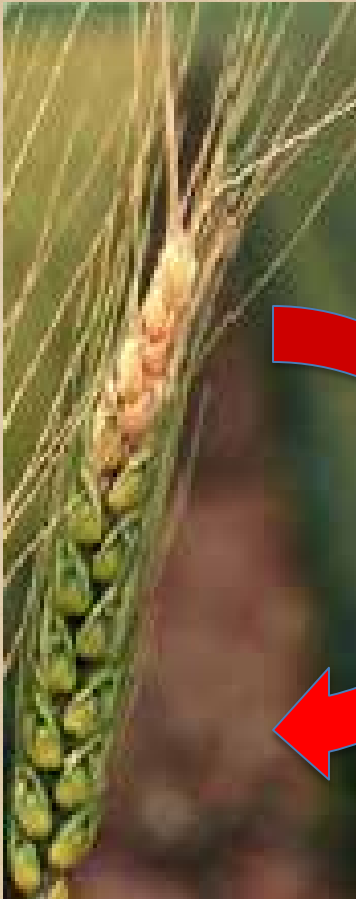
When conditions do not permit !

Does late spraying produce higher DON levels than no spraying ?

Impact of spraying



... on soil health ?



**Transference of
Mycotoxin
on plant or tillers?**



**Increased Fan
Speed
DOES NOT EQUAL
Grain Cleaning**



Sampling ...



... one hot kernel !



**Changing levels
... consolidation?
... through time?**



Transference of
Mycotoxin
within the bin?



VS



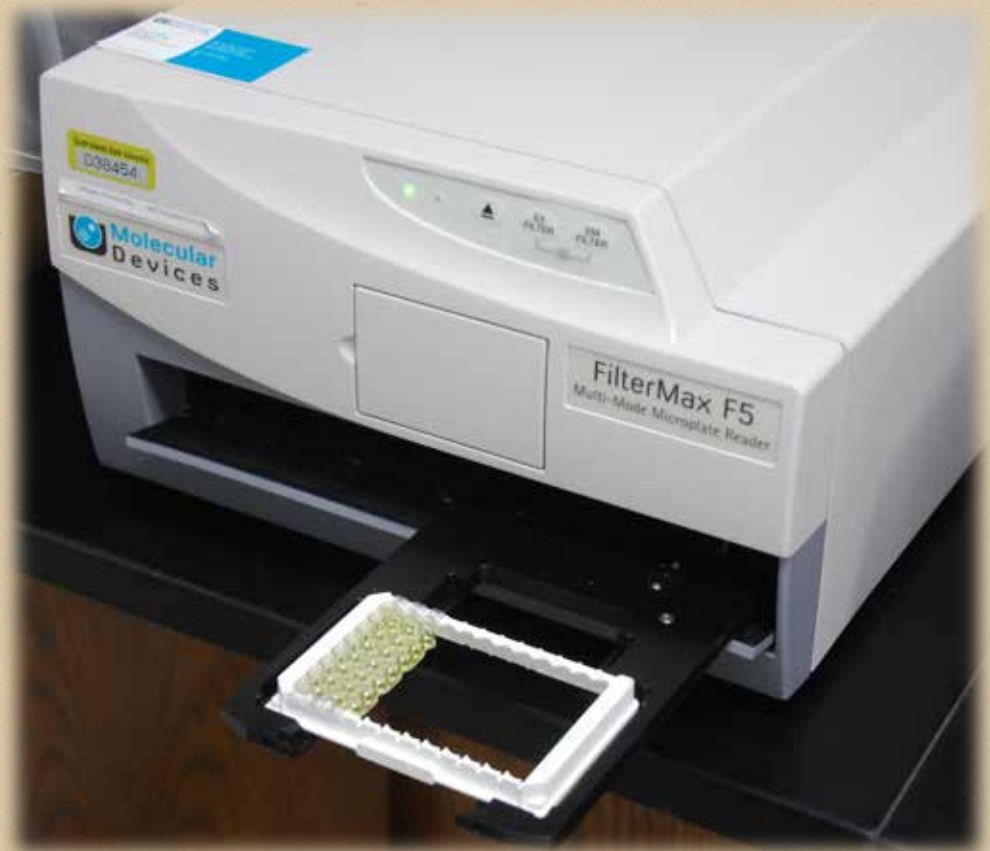
**Do the DON levels decrease ?
Does the elevator scrutiny decrease ?**



Quick Tests ... Qualitative or Quantitative ?

Easy access to:

- ü **Fast**
- ü **Low cost**





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\$



Testing

High levels ...



... now what ?

FUSARIUM HEAD BLIGHT Prediction Center

US Commentary *last update 2014-08-14 Erick DeWolf.*

The Fusarium head blight prediction center will stop generating new risk maps on Aug 15. Maps from earlier this year will be available for testing and evaluation purposes. The system will resume service spring of 2016.



- Introduction
- Model Basics
- User Guide
- Fusarium
- Developers
- Login

1. Choose a State
State:

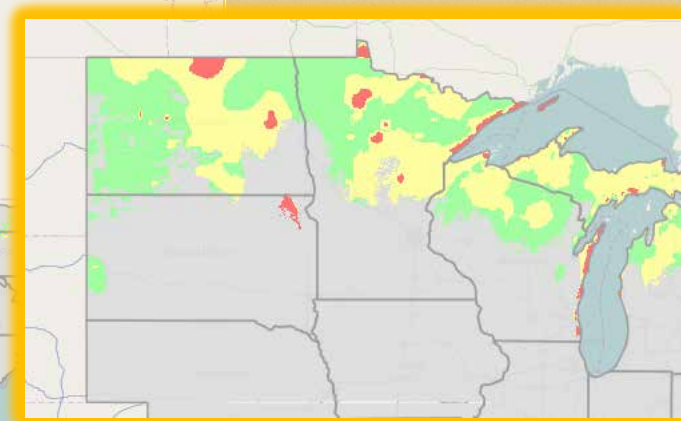
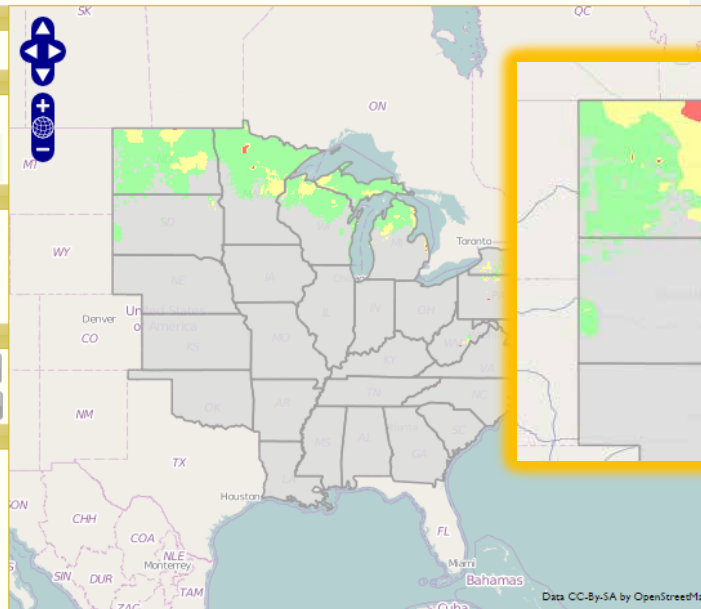
2. Choose a Model
Wheat:

3. Weather Forecast Mode
Forecast (hrs):
Assessment Date:

Advanced: Save Model and Location
Name:
Saved Locs:

Legend
Blight Risk
■ High
■ Medium
■ Low
■ No Data
Weather Stations
● FAA
● AgNet
○ Inactive (for model)

Risk Map Opacity



Discounts for high levels



... Premiums for low levels ?



1 ppm ?



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