

CROP NOTES for Sept 22, 2009 – Correction for Sept 17 Crop Notes

Past issues of Crop Notes are posted at:

<http://www.extension.iastate.edu/winneshiek/info/crops.htm>

Iowa State University Extension Information for Northeast Iowa

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I have an important correction to make regarding MOLDS & MYCOTOXINS testing instructions provided in the Sept 17 Crop Notes.

Since last week, the Veterinary Diagnostic Laboratory made some important changes to their web site regarding testing for Molds and Mycotoxins. Please ignore the sample testing and handling information that I posted in the Sept 17 Crop Notes. Use the steps provided below.

MOLDS & MYCOTOXINS

Sending in Grain or Silage Samples

Now posted on the VDL are specific instructions for sending in silage and grain samples, found at:

http://vetmed.iastate.edu/diagnostic-lab/user-guide/chemistry/toxicology#feeds_and_environmental_samples

Under the heading “Feeds and Environmental Samples” are clearly defined steps for sending in Grain samples and Forage samples.

Requesting Tests for Grain Samples

VDL is now offering an Elisa “Panel Test” for grain. It is described as a semi-quantitative test, meaning that it is a quantitative test for mycotoxins at high enough levels of concern, but not for mycotoxins at very low levels (levels that are not of a concern). This test will give us what we need at a good price. This test will not work for silage/forage samples. The test is described in the pdf file attached “Mycotoxin Testing for Grain”.

1) Use the steps listed under the heading “Feeds and Environment” to submit grain samples, found at:

http://vetmed.iastate.edu/diagnostic-lab/user-guide/chemistry/toxicology#feeds_and_environmental_samples

2) Include the sample submission form at:

http://vetmed.iastate.edu/sites/default/files/vdpam/Veterinary_Diagnostic_Laboratory/Forms/TissueSubmission_2008-11j.pdf

On this form, you only need to fill in your contact information at the top right of the front page, and then near the bottom of the back page check the box labeled “Chemistry / Toxicology”. On the line following “Chemistry / Toxicology” write in the tests that you want run that are listed in the pdf attachment “Mycotoxin Testing for Grain”.

Requesting Tests for Silage Samples

As mentioned under “Grain Sample”, the Elisa “Panel Test” will not work for forages, silage, or earlage. For these forages, the VDL would run wet chemistry on the mycotoxins requested by you (Fumonisin, Vomitoxin, Zearalenone and T-2 would be of greatest interest). There is a \$33 charge for a qualitative test (present or not) per mycotoxin, and for those mycotoxins found by the qualitative test, there is a \$35 charge per test for quantitative results (the concentration of mycotoxin in the feed). These tests are listed on the VDL page under “Chemistry/Toxicology” and the “Mycotoxin” heading at: <http://vetmed.iastate.edu/diagnostic-lab/fee-schedule/chemistry/-toxicology>

1) Use the 8 steps listed under the heading “Feeds and Environment” to submit forage/silage samples, found at:

http://vetmed.iastate.edu/diagnostic-lab/user-guide/chemistry/toxicology#feeds_and_environmental_samples

2) Include the sample submission form at:

http://vetmed.iastate.edu/sites/default/files/vdpam/Veterinary_Diagnostic_Laboratory/Forms/TissueSubmission_2008-11j.pdf On this form, you only need to fill in your contact information at the top right of the front page, and then near the bottom of the back page check the box labeled “Chemistry / Toxicology”. On the line following “Chemistry / Toxicology” write in the tests that you want (Fumonisin, Vomitoxin, Zearalenone, and possibly also T-2) run for “Qualitative, and Quantitation of positive results”.

If you have any questions on testing for Molds and Mycotoxins, please call the VDL at 515-294-1950.

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