CROP NOTES for October 10, 2018
Iowa State University Extension Information for Northeast Iowa
Brian Lang, ISU Extension Agronomist, Decorah, IA
Past issues of Crop Notes are posted at:
http://www.extension.iastate.edu/winneshiek/page/crop-notes-brian-lang
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WEATHER
First Frost
National Weather Service is forecasting a low of 29F-30F for early morning Friday. One
advantage is that the cooler weather will slow development of ear molds and kernel sprouting
(vivipary), if occurring. FYI, one page summary from Purdue on kernel

The table below provides the long-term average first temperature dates of occurrence in
northeast Iowa:
- 32F - light frost.
- 28F - killing frost for annuals such as corn, soybeans, sorghum-sudan.
- 24F - 'killing' frost for perennials such as alfalfa; obviously not killing the alfalfa but rather shutting down its topgrowth for the season.

<table>
<thead>
<tr>
<th>Location</th>
<th>32F</th>
<th>28F</th>
<th>24F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decorah</td>
<td>Sept. 30</td>
<td>Oct. 9</td>
<td>Oct. 23</td>
</tr>
<tr>
<td>Cascade</td>
<td>Sept. 30</td>
<td>Oct. 11</td>
<td>Oct. 24</td>
</tr>
<tr>
<td>Cresco</td>
<td>Oct. 5</td>
<td>Oct. 13</td>
<td>Oct. 25</td>
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<tr>
<td>Fayette</td>
<td>Sept. 26</td>
<td>Oct. 5</td>
<td>Oct. 20</td>
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<tr>
<td>Independence</td>
<td>Oct. 1</td>
<td>Oct. 12</td>
<td>Oct. 25</td>
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<tr>
<td>Manchester</td>
<td>Oct. 3</td>
<td>Oct. 10</td>
<td>Oct. 23</td>
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<tr>
<td>New Hampton</td>
<td>Oct. 5</td>
<td>Oct. 15</td>
<td>Oct. 27</td>
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<tr>
<td>Oelwein</td>
<td>Sept. 30</td>
<td>Oct. 9</td>
<td>Oct. 25</td>
</tr>
<tr>
<td>Tripoli</td>
<td>Oct. 7</td>
<td>Oct. 16</td>
<td>Oct. 31</td>
</tr>
<tr>
<td>Waukon</td>
<td>Oct. 8</td>
<td>Oct. 19</td>
<td>Oct. 31</td>
</tr>
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**Ear Molds**
This season’s weather pattern in northeast Iowa favors issues with Fusarium ear rots and possible mycotoxin development of Fumonisin, DON and Zearalenone, but not Aspergillus & aflatoxin. For photos and brief summaries of the different molds, go to the Crop Protection Network library [https://cropprotectionnetwork.org/library/](https://cropprotectionnetwork.org/library/) and click on publication CPN-2001. Dr. Charles Hurburgh, ISU Grain Quality Specialist, wrote the following article on Monday with tips on grain harvest and drying relative to grain mold issues: [https://crops.extension.iastate.edu/cropnews/2018/10/crop-quality-hurt-rains](https://crops.extension.iastate.edu/cropnews/2018/10/crop-quality-hurt-rains)

**Frost and Sorghum-Sudan**
Just a quick reminder that cattle grazing sorghum-sudan forage should be moved to a different pasture when the threat of frost is present. Recently frosted sorghum-sudan (frost busting plant cells walls) enhances the release of prussic acid. Frosted plant tissue will turn wet-dark green to black, and then in five days or so dry-out to a tan-gray color. Keep livestock out until the frosted plant material dries out. An additional concern exists for plants frosted back enough, but not killed, to stimulate new growth off the base of the plants. This new growth will have a high concentration of prussic acid and should not be grazed. Livestock may have to be held out of the pasture until colder temperatures completely kill the plants and the plant tissue dries out. For a refresher on issues with sorghum-sudan and frost, see the short article from Michigan State at: [http://www.canr.msu.edu/news/frosted_sorghum-sudangrass_pasture_poses_prussic_acid_poisoning_risk](http://www.canr.msu.edu/news/frosted_sorghum-sudangrass_pasture_poses_prussic_acid_poisoning_risk)

**Soil Temperature**
Generalized daily average 4-inch soil temperatures are posted at: [http://extension.agron.iastate.edu/NPKnowledge/soiltemphistory.html](http://extension.agron.iastate.edu/NPKnowledge/soiltemphistory.html)
Granted, this is not very relevant since there is considerable harvest to accomplish before anyone looks to apply nitrogen fertilizer.
HARVEST PROGRESS
National Ag Statistics Service
The current report suggests harvest progress in northeast Iowa is about one week behind normal for corn and two weeks behind normal for soybeans. Statewide, corn harvest is similar to normal and soybean harvest is about one week behind normal. The 8 to 14 day climate outlook predicts below normal rainfall. http://www.cpc.ncep.noaa.gov/products/predictions/814day/

Crop Yield Estimates
The latest Crop Production estimate will be posted on October 11. It will include yield estimates by Crop Districts. Estimates by county are not posted until February. Go to: https://www.nass.usda.gov/Statistics_by_State/Iowa/Publications/Crop_Report/index.php

MANURE
Research on Instinct Nitrification Inhibitor in Manure
Attached is a set of six Power Point slides summarizing 3-year research trials (2011-2013) from Iowa and Minnesota comparing manure applications by date, and with and without Instinct. If you care to view the research in its entirety, the 106 page thesis is available at https://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=5283&context=etd
Other research in 2016-2017 at the ISU Northeast Research Farm titled ‘Drainage Water Quality Impacts of Agricultural Management Practices: Effect of Manure Application Timing and Cover Crops’ also included a treatment comparison with and without Instinct, with the short summary download available at: https://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=1478&context=farmprogressreports

EVENTS
Automatic Milking System Tours at 9 Location in Northeast and Eastern Iowa
Each tour is open to the public, no preregistration is required.
   Oct. 23 near Monona and Elgin
   Nov. 5 near Westgate and Clarksville
   Nov. 13 near Epworth and Colesburg
   Nov. 14 near Bernard, Dubuque and Peosta
For details about farm hosts, times, locations and directions, go to: https://www.extension.iastate.edu/news/tours-automatic-milking-systems-feature-precision-management
For more information, contact extension dairy specialist Jenn Bentley at jbentley@iastate.edu or 563-382-2949 or extension dairy specialist Larry Tranel at 563-563-583-6496 or tranel@iastate.edu

Oct. 24, The 32nd Annual Tri-State Agricultural Lender’s Seminar, Dubuque
9:00 AM to 2:30 PM at the Best Western Plus, 3100 Dodge Street, Dubuque. Registration at 9:00. Program agenda includes: 9:30 Dairy Marketing and Risk Management Update (Dr. Robert Cropp, Dairy Marketing Specialist, UW Professor Emeritus); 10:15 The Farm Bill and Implications for Lenders (Dr. Joe Outlaw, Professor and Extension Economist, Co-Director, Ag and Food Policy, Texas A&M University); 11:10 Understanding Farm Stress and How to Help (Dr. John Shuttske, Extension Farm Safety Specialist, UW-Extension); 12:50 Ag Decision Maker—A Useful Tool (Ann Johanns, Extension Program Specialist, ISU Extension); 1:30
Land, Grain & Livestock—Marketing and Risk Management (Dr. Chad Hart, Grain Marketing Specialist, ISU Extension). For more information, see the attached document. The cost of the program is $100. Please register with Dubuque County Extension at 563-583-6496 or email lklatt@iastate.edu or tranel@iastate.edu for registration information. Directions: The Best Western Plus, 3100 Dodge Street, is right off Highway 20 on the west side of Dubuque between Theisen’s and Cedar Cross Road.

Oct. 30, Pasture-Walk, Vance & Olaf Haugen Farm, Canton, MN
10:30 AM start at 12620 Deer Rd., Canton, MN. Discuss late fall/early winter paddock planning for dairy grazing. Kura Clover production for seed. Guest speaker is Bonnie Haugen of DGA on “How the importance of soil health for pastures affects feeding our cows, and consequently our profitability. Improving soil health ideas.” Directions from Decorah IA, take Hwy 52 north about 17 miles to the intersection of Hwy 44 & 52, go through the intersection onto Dove Rd., go 0.5 mile to right on Deer Rd. Go 1.5 miles to farm on east side of road. Fire # 12620. Any questions, please call the Haugen’s at 507-459-3264.

Nov. 9 to Dec. 12, 2018 Pro-Ag Outlook Meetings, 10 locations in Iowa
The meetings are designed to provide agribusiness leaders with a concise evaluation of current market conditions, expected trends in crop and livestock income potential and management implications. For links to individual meeting locations, go to: https://www.extension.iastate.edu/agdm/info/meetings.html
- Altoona - Nov. 9
- Carroll - Nov. 12
- Fort Dodge – Nov. 14
- Waterloo - Nov. 15
- Cresco – To be determined
- Mason City - Nov. 16
- Greenfield - Dec. 3
- Iowa City - Dec. 5
- Mt. Pleasant - Dec. 6
- Storm Lake - Dec. 12

Nov. 13, Women and Grain Marketing, Nashua
A four-session course (Nov. 13, 20, 27, Dec. 4) to assist women in developing a plan for marketing corn and soybeans. Learn how to manage price risk using tools like forward contracts, futures and options contracts, alternative marketing contracts, and crop insurance. Participants will work in a computer lab to access online decision tools and to develop a marketing plan. Learn market strategies and how to stay on track for long term marketing success. For registration more information, go to: http://www.aep.iastate.edu/womeninag/2018/nashua

Nov. 14-15, North Central Extension-Industry Soil Fertility Conference, Des Moines
Intended for university soil fertility and crop production specialists, industry agronomists, crop advisers, and agency personnel. The goal of the conference is to facilitate sharing of new soil fertility and nutrient management research information and fertilizer industry developments. Presentations highlight ongoing soil fertility research at universities in the North Central region
Nov. 15, Tri County Ag Marketing meeting, Conrad
6:30 PM to 8:30 PM. Grain marketing meeting featuring ISU Extension Steve Johnson. Location is the Conrad Mid Iowa Coop Marketing Office in Conrad. For more details contact Shari Sell-Bakker at the Grundy County Extension office, 319-824-6979, sellbakk@iastate.edu

Nov. 16, Cover Crop, Strip-tillage and Water Quality Field Day, Floyd
10:00 AM to Noon hosted at the Ben and Andy Johnson farm, 1170 Hwy 218, near Floyd. The event is free and open to the public and includes a complementary meal. For more information go to Iowa Learning Farms at: http://www.iowalearningfarms.org or the local contact John Sjolinder, 641-423-0844, sjolinde@iastate.edu at the Cerro Gordo County Extension office www.extension.iastate.edu/cerrogordo

Nov. 18-19, 18th Annual Iowa Organic Conference, Iowa City
For everything about the conference, go to: https://register.extension.iastate.edu/iowaorganic

Nov. 26-27, Iowa Forage and Grasslands Conference, Des Moines
At the Des Moines Airport Holiday Inn. Jim Gerrish, renowned grazing consultant, and Byron Shelton, senior program director of the Savory Institute, are scheduled to speak during the Nov. 26 evening session and again in in-depth sessions on Nov. 27. For program details, go to http://iowaforage.org/

Dec. 5, Nuts and Bolts of Estate Planning, Elkader
1:00 to 4:00 PM at the FreedomBank Community Room, Elkader. Learn about the basics of estate planning and learn about the options for planning for your estate. This program is being planned in partnership with the Clayton County Women, Land, and Legacy Group. Topics include Property Ownership, Powers of Attorney, Wills & Trusts, Estate & Inheritance Taxes, Gifting, Goal-setting, Family conversations — talking about transition, How to build & work with your professional team — legal, tax, and others, Treatment of Heirs — fair vs. equal. Seating is limited, please register ($5 fee includes refreshments and materials). For more information contact Holly Loan, 563-245-1451, hloan@iastate.edu at the Clayton County Extension office.

Dec. 6, Advanced Calving Clinic for Dairy and Beef, Calmar
10:00 AM to 3:00 PM at the Dairy Center, Calmar. A free in-depth program on neonatal calf care, calving first aide and hands-on experience with "Frosty" a life size-cow model used to teach calving management, dystocia, and delivery. The program is open to all dairy and beef producers, students, and industry persons. The program is generously supported by local businesses, therefore it is free of charge for participants. Please pre-register by November 28 to reserve your seat. Seats are limited. Register online at www.nicc.edu/solutions (type calving clinic in the search box upper right corner of page to get to the dairy and beef registration pages)

Oct.-Dec., Commercial Pesticide Applicator CEU Programs
These programs are offered at most county extension offices. Contact the local extension office to reserve a space. Registration forms will not be available until mid-September.

https://www.extension.iastate.edu/psep/ComAp.html

Oct. 17, Categories 2 (Forest Pest), 5 (Aquatic Pest), 6 (Right-of-Way), and 10 (Research & Demonstration)

Oct. 25, Categories 7D (Community Insect Management), 8 (Public Health Pest), and 10 (Research & Demonstration)

Nov. 2, Categories 3G (Greenhouse Pest Control), and 10 (Research & Demonstration)

Nov. 7, Categories: 3O (Ornamental Pest), 3T (Turf Pest), 3OT (Ornamental and Turf Pest), and 10 (Research and Demonstration)

Nov. 13, Private and Commercial, Categories: 7C (Fumigation), and 10 (Research & Demonstration)

Nov. 14, Categories 1A (Ag Weed), 1B (Ag Insect), 1C (Ag Disease), and 10 (Research & Demonstration)

Dec. 5, Categories 7A (General & Household Pest), 7B (Termite Control), 8 (Public Health Control), and 10 (Research & Demonstration)

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Brian Lang
Iowa State University Extension Agronomist
325 Washington St., Suite B, Decorah, IA 52101
Office 563-382-2949; Cell 563-387-7058; Fax 563-382-2940
https://crops.extension.iastate.edu/