Growing Small Grain Profitability
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Fiscal Report
(June 1, 2018 to May 31, 2019)

**Income**

- Net Checkoff Assessments $294,854
- Interest Income $15,110

**Total Income** $309,964
Fiscal Report
(June 1, 2018 to May 31, 2019)

Expenses

- Administration $27,462
- Research (additional from reserves) $294,497
- Market Dev. & Promotion $21,415
- Education $36,560
- Total Expenses $379,934
Fiscal Report
(June 1, 2017 to May 31, 2018)

End-of-Year Balance

- Total Income: $309,964
- Total Expenses: $379,934
- Net Income: -$69,970
2019 Harvest Review

PRODUCTION

• 25.1 million bushels
• 76 bushels/A
• 330,000 acres harvested

Acres and average yield were increased over 2018 estimates. Rain hampered seeding in 2018, but favorable conditions helped the crop finish well.

- David Knopf, NASS Director
Production Trends

Planted and Harvest Acres

0 100,000 200,000 300,000 400,000 500,000 600,000 700,000 800,000 900,000

Production Trends

Average Yield

Production Trends

Production in Millions of Bushels

Research

• 2019 funding - $294,497
• All results from 2018/2019 projects can be found at www.kysmallgrains.org
2018/2019 Research

Research Report: Wheat Breeding Project
Crossing: We produced a total of 550 crosses in the greenhouse this season. We made both single cross hybrids between 2 parental lines (138) and 3-way crosses (412) where the hybrid is crossed to a third parent.
Oct 1, 2019

Market Demand and Production Cost Estimates for Specialty Small Grains in Kentucky
Specialty small grains (e.g., cereal rye, hard red winter wheat, and malting barley) are a vital input into products like artisan bread, craft beer, and bourbon. Therefore, there are potential opportunities for Kentucky farmers to supply various specialty small grains to support the expansion in these markets.
Oct 1, 2019

Breeding New Rye Cultivars for the Midwest
Research by Tim Phillips at University of Kentucky.
Dec 20, 2019

2019 Kentucky Small Grain Variety Test Results Available
Jul 12, 2019
2018/2019 Research

Improving fungicide application recommendations for managing Fusarium head blight of wheat and barley

The overall objective of the research trials were to develop the best recommendations for managing Fusarium head blight (FHB; also known as scab) and the associated mycotoxin deoxynivalenol (DON; also known as vomitoxin) with foliar fungicides.

Oct 11, 2019

Reducing Fusarium Head Blight Vomitoxin Levels through Agronomic Practices

Current agronomic practices to reduce vomitoxin levels include planting moderately resistant wheat cultivars and fungicide applications at beginning flowering (Feekes 10.5.1 growth stage). This project is examining whether additional agronomic practices may potentially lower vomitoxin levels.

Oct 1, 2019

Identification and characterization of fungicide-resistant strains of Parastagonospora nodorum in Kentucky

Stagonospora leaf blotch is one of the most common foliar diseases observed in Kentucky. When flag leaves are affected by leaf blotch, yield losses generally occur. Glume blotch also is a common disease in Kentucky, and can reduce yields and test weight. One of the most common ways to manage these diseases is through application of foliar fungicides.

Oct 7, 2019
2018/2019 Research

Rye Crop and Disease Management in Kentucky Report on 2018-2019

Rye as a grain crop has a potential local market with distilleries. Rye has not been grown in Kentucky since the 1920’s. We have been conducting research for several years on growing rye for grain. In the 2019 harvest season, we established rye at Princeton and Lexington to test several management hypotheses and fungicide efficacy against the Fusarium head blight (FHB).

Oct 9, 2019

2019 Fragipan Remediation Report

Annual ryegrass has been chosen as the central focus of the greenhouse and field research due its notable advantages and the compelling proof of its effectiveness. Annual ryegrass roots apparently contain exudates that have a degrading effect on the fragipan. The deep root penetration also increases soil porosity and may facilitate the leaching of the 4 or 5 other effective compounds down to the fragipan. We are presently looking for varieties of annual ryegrass that are more effective in breaking down the fragipan and varieties that are more easily killed by glyphosate.

Oct 14, 2019

Improvement and Development of Barley for Use in Feed, Malt, and Food

As interest continues to grow in locally produced ingredients from the craft brewing industry in the mid-Atlantic and eastern U.S. finding malted barley is not easy for those located east of the Mississippi river. Therefore, the program’s main effort is breeding winter malting barley cultivars that have superior malt quality and are well adapted to the mid-Atlantic and southeastern United States.

Oct 15, 2019
2018/2019 Research

Soil Health Benefit from Winter Wheat in the Rotation

This work is intended to answer the question: Are there long term soil health benefits to having wheat in Kentucky farmers’ crop rotation? Comparing wheat harvested for yield to wheat (or other small grain) as a cover crop, is it better for the soil to take wheat to grain harvest?

Oct 4, 2019

Investigating cereal rye cultivars for improved cover crop performance

Cereal rye is planted on more acres than any other cover crop species in the U.S. because it can reliably produce substantial biomass in a wide range of growing conditions. In order to maximize these benefits, well-adapted cereal rye cultivars should be selected for rapid and complete ground cover, high biomass production, and high potential to suppress weeds.

Nov 7, 2019

Comparing Pyrethroids to Manage Aphids in Insecticide Treated and Untreated Wheat Seed

Commercial winter wheat seed (cv Pioneer26R1A) without and with insecticide seed treatment (Poncho® (clothianidin)) were planted into no-till research plots of the University of Kentucky’s Research and Education Center in Princeton, KY.

Dec 21, 2019
Changes of BYDV and CYDV Infection in Commercial Wheat of Western Kentucky

Barley yellow dwarf is one of the most devastating diseases in wheat worldwide. Two viruses, Barley yellow dwarf virus (BYDV) and Cereal yellow dwarf virus (CYDV), cause this disease, and are transmitted by several species of aphids. In Kentucky, there are at least four aphid species, in which the bird cherry oat aphid (Rhopalosiphum padi) is the most efficient vector and the most abundant aphid species in western Kentucky. Mechanical transmission does not occur (i.e., by rubbing), and virus cannot multiply in the aphids. All aphid species must acquire this virus by feeding on infected plants. Here, we report the absence and presence of plants infected with BYDV or CYDV in commercial wheat fields in western Kentucky.

Investigation of Herbicide Resistance in Kentucky Italian Ryegrass Populations

Italian ryegrass in Kentucky has previously been confirmed as resistant to mesosulfuron-methyl and pyroxasulam (ALS-inhibitors, SOA Group 2) and diclofop-methyl (ACCase-inhibitor, SOA Group 1). In 2017 two separate populations of Italian ryegrass from Kentucky were submitted to the University of Kentucky weed science program for screening of herbicide resistance. The first population was suspected of glyphosate resistance and the second population contained two generations that were suspected of resistance to pinoxaden. The two populations were screened for resistance in greenhouses at the
New Projects for 2019

• Advancing Modern Wheat Nutrition to Sustain both Yield and Economics of Production - John Grove, UK

• Providing Guidance to Kentucky Farmers for Grid and Zone Based Crop Management – Josh McGrath, UK

• Field Scale Characterization of Soil Structure and Hydraulic Properties for Variable-Rate Irrigation – Ole Wendroth, UK

• Evaluation of Variable Input Level Weed Control Programs in Wheat - Legleiter, UK

• Use of LED Lights to Optimize Barley Malt Diastatic Power and Bioactive Compounds for Food Production – Akinbode Adedeji, UK
Research Funding To Date

$3.6 Million

Dedicated to Kentucky Small Grain Research since 1992
Research Endowment Fund

**Gifts of Grain**

- University of Kentucky College of Agriculture
- KySGGA will match up to $50,000
- Growers may make an above the line deductible donation of grain
- Contributions so far – $78,000
UK Grain and Forage Center for Excellence

- Grand Opening was held on September 20, 2019.
- Student housing was named in honor of Dave Van Sanford, thanks to a KySGGA contribution - $785,000 total provided.
UK Grain and Forage Center for Excellence
Siemer Milling Co. pledged a $1 Million contribution earlier this year.
Kentucky Ag Community Mourns Loss of Don Halcomb

Don Halcomb departed our earth on January 16, 2019. He was a founding member of KySGGA and served as chairman of the Kentucky Small Grain Promotion Council for more than 25 years.

In 2017, Don received the UK Wheat Science Service Award, and his ideas laid the groundwork for the Grain and Forage Center of Excellence.
UK hosted this event in Lexington, Sept. 15-16.

150 farmers, millers, bakers, chefs, researchers, maltsters, brewers, distillers, and consumers.
Grower Education

www.kysmallgrains.org

Find research reports, links to production information, education events and more!
Grower Education

- UK Winter Wheat Meeting
- Kentucky Commodity Conference
- KATS Field Schools
- UK Winter Wheat Field Day
Thursday, January 16, 2020
University Plaza Holiday Inn – Bowling Green

Agenda At a Glance (CST):
7:00 a.m. Early Riser Session (in the convention center)
8:30 a.m. Registration and Trade show opens
9:30 a.m. Marketing Session
11:00 a.m. Luncheon & Keynote (Dr. Danny Klinefelter)
1:15 p.m. Stress Management Session
2:30 p.m. Association Annual Meetings
5:30 p.m. Grower Appreciation Reception
6:00 p.m. Awards Banquet
January 7, 2020

Winter Wheat Meeting

Siemer Milling Co. Conference Center
UKREC, Princeton KY 42445

TOPICS

Guest speaker: Siemer Milling Company

SOIL FERTILITY MANAGEMENT FOR WINTER WHEAT PRODUCTION  ♦  CROP CONDITION  ♦  CAN MANAGEMENT PRACTICES (OTHER THAN FUNGICIDE) REDUCE DON?  ♦  RESULTS OF FUNGICIDE TRIALS FOCUSING ON MANAGEMENT OF FUSARIUM HEAD BLIGHT  ♦  THE 2019 SOUTHEASTERN GRAIN GATHERING  ♦  SMALL GRAINS AS RESERVOIR OF NATURAL ENEMIES MAY HELP TO REDUCE PESTS IN SUMMER GROWN FIELD CROPS IN WESTERN KENTUCKY  ♦  SPECIALIZED TRIALS IN UK WHEAT VARIETY TESTING  ♦  RYE ON THE FARMS  ♦  WEED CONTROL IN WHEAT  ♦  THE ECONOMICS OF SPECIALTY SMALL GRAIN IN KY

Registration: 8:30 am
Time: 9 am—3 pm (central time)
GPS: 348 University Dr.
Princeton, KY 42445

CCA & PAT Credits: pending

Lunch sponsor by:
KENTUCKY SMALL GRAIN GROWERS’ ASSOCIATION

For additional information contact: Colette Laurent, claurent@uky.edu – (270) 365-7541 EXT 21321

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
4-H Youth Development
Community and Economic Development

Educational programs of Kentucky Cooperative Extension serve all people regardless of race, color, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, parental status, or physical or mental disability. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.

Disabilities accommodated with prior notification.
Consumer Education

Educational resources and programs are provided to students and teachers through a partnership with Teach KY Ag. We utilize our website and social media to share important industry resources.
Kentucky Livestock Coalition

• Education program trained 5 ag education interns to teach middle and high school students about food issues and finding credible information.

• More than 25 school/community events were conducted.
Winners will be recognized at the Kentucky Commodity Conference in January. Many thanks to Chad Lee for administering this contest. Entry deadline is in July for 2020.
Policy & Grassroots Efforts

• WOTUS
• USMCA
• US – Japan Tariff Agreement
Thank You!

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