The goal of this monthly newsletter is to serve the best interests of Idaho crop producers. Correspondence and inquiries should be addressed to: Olga Walsh, Cropping Systems Extension Specialist, Southwest Research and Extension Center, 29603 U of I Lane, Parma, ID 83660, Phone: (208)722-6701 (ext. 218), Fax: (208)722-6708, Email: owalsh@uidaho.edu

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University of Idaho Extension improves people’s lives by engaging the University and our communities through research-based education. Our areas of expertise are Agriculture, Community Development, Family and Consumer Sciences, Natural Resources, and Youth Development.

To enrich education through diversity the University of Idaho is an equal opportunity/affirmative action employer and educational institution.
WHAT’S NEW?

New Article of Corn Research in Idaho

The update article highlighting the expanding corn research in Idaho - published in Traders’ Dispatch, October 2016.

In 2016, over 320,000 acres were planted to corn in Idaho, up 14 percent from last year. The newly developed hybrids are not only much more high-yielding but also more efficient in nitrogen uptake and utilization. As corn acreage is expanding throughout Idaho and the PNW, the crop is grown in a wide variety of climatic and environmental conditions.

For the past several years, a group of Idaho researchers led by Dr. Dave Tarkalson, research soil scientist with the USDA-ARS, Kimberly ID, is aiming to update N guidelines for Idaho corn production systems. Dr. Olga Walsh’s Cropping Systems Agronomy team at the University of Idaho, Parma Research and Extension Center, is collaborating on collecting the data on corn yield response to applied N fertilizer.

Other corn studies at Parma include collaborations with J.R. Simplot Company, and AgXplore.

Useful resources:
- Idaho Nutrient Management web site dedicated to corn. [http://www.extension.uidaho.edu/nutrient/crop_nutrient/corn.html](http://www.extension.uidaho.edu/nutrient/crop_nutrient/corn.html)
Reporting on 2015-16 Research Results

RESILIENCE EMERGING FROM SCARCITY AND ABUNDANCE
2016 Annual Meeting | Nov. 6-9 | Phoenix, AZ

The following UI Parma Cropping Systems Agronomy research is presented at the annual ASA-CSSA-SSSA meeting, Phoenix, AZ, November 6-9, 2017.

- Plant-available silicon amendment in winter wheat
- Sensor-based nitrogen and water management in spring wheat
- Micronutrient seed coat treatments in winter wheat
- UAV-based scouting for precision nitrogen management in spring wheat
- Assessment of Prevent phosphorus aid in winter wheat
- Micro Carbon Technology-based phosphorus fertilizer in spring wheat
- Evaluation of NZone Max nitrogen aid in corn

We thank the following funding institutions for supporting our research and extension efforts: Idaho Wheat Commission, WSARE USDA-NIFA, J.R. Simplot, AgXplore, The Mosaic Company, Bio Huma Netics, MontanaGrow, and the University of Idaho.
UI Parma Cropping Systems Agronomy team has completed planting of winter cereal trials. The experiments include winter cereal nursery (winter wheat and barley variety evaluation), evaluation of application time and rate of plant available silicon on winter wheat yield and quality, evaluation of Prevent-Profound phosphorus aid in winter wheat.

**Winter Cereals 2015-16 Varieties Performance**
- With Michael Flowers, OSU

Grain yields for Soft Winter Wheat ranged between 121 and 180 bushels per acre, average yield for Parma, ID location was 160 bushels per acre. Test weight values varied from 59.3 to 61.5 pounds per bushel. There is no data for Hard Winter Wheat due to lodging.
Southern Idaho Cropping School will take place in February 2017 in Caldwell, ID - more details about the exact date and venue are coming soon. Last year’s school provided a great opportunity to learn about the current crop and soil issues pertinent to Idaho’s agriculture. The Cropping School aims to create fun, informal learning environment which enables and encourages integration of growers and crop consultants with researchers and extension educators.

The 2017 school will once again cover weed control (chemical update and resistant weeds), precision agriculture (Unmanned Aerial Systems/Drones, crop sensors), pest and disease update/outlook, fertilizer and water management, specialty crops, and other interactive sessions such as one focused on low falling numbers in wheat.

As always, we will have lots of networking and discussion opportunities, fun door prizes and a delicious lunch!

For updates on the 2017 Cropping School and other exciting events - follow us on Twitter: @IDCrops, and subscribe to our Idaho Crop & Soil Blog: IDCrops.

Pest control (left) and UAV/drone (right) presentations, 2016 Cropping School.