



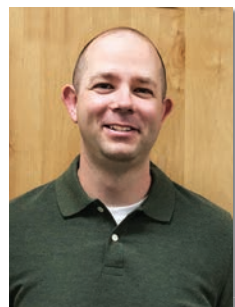
# Idaho Barley Commission Emphasizes Research to Support Idaho Growers

Research funding is the largest budget area for the Idaho Barley Commission. IBC commissioners met in February for the annual IBC Research Review and evaluated research proposals for the 2022-2023 fiscal year to begin July 1, selecting 22 projects for funding, for a total of \$316,459 contributed with grower dollars received from Idaho's 3-cent per hundredweight barley assessment. Commissioners awarded funds to projects based on their potential to provide important information and solutions to help Idaho growers and advance the barley industry in Idaho.

In addition, the Idaho Barley Commission supports the efforts of the National Barley Improvement Committee (NBIC), which represents the U.S. barley community of growers, researchers, processors, users, and allied industries, and focuses on coordinated efforts for federal funding for barley-related research. NBIC conducted over 50 congressional office visits in March, virtually and in-person, to provide information to congressional staff on the importance of federal barley research funding.



Mike Wilkins, IBC Grower Commissioner and NBIC Member



Jason Boose, IBC Industry Representative Commissioner and NBIC Member

NBIC's top priority this year was the Barley Pest Initiative (BPI). The BPI is a nation-wide effort to strengthen research capacity to address insects and diseases that impact barley yield and quality through development of new resistant varieties and management strategies.

The BPI work began in 2021 across fourteen states, including Idaho, with the initial appropriation of \$1 million, and was bolstered by the fiscal year 2022 federal appropriation increase of an additional \$1 million annually, bringing the total to \$2 million. NBIC discussed additional increases in fiscal year 2023 to reach the \$5.3 million needed annually to address these pest challenges with partners at the



IBC Executive Director Laura Wilder, far right, joined NBIC efforts in Washington D.C. in March. Other industry representatives pictured (L-R) Wade Malchow, Molson-Coors, Montana, Gary Beck, North Dakota Barley, and Scott Heisel, American Malting Barley Association.

USDA Agricultural Research Service and network of partnering land grant universities.

Barley pests cause 5 to 15% yield reductions annually, resulting in losses of \$36 to \$118 million a year nationwide to growers. The BPI strengthens the capacity of the national public sector barley research infrastructure to address 20 major insect, viral, bacterial, and fungal threats to the production of high-quality barley. The Initiative focuses on improved environmental sustain-

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## FY2023 IDAHO BARLEY COMMISSION RESEARCH PROPOSALS FUNDED

Title and Principal Investigator	IBC Amount Funded
Barley Agronomy Program Technician (UI: J. Spackman)	\$20,000
Pre-plant Burndown Herbicide Efficacy and Barley Crop Safety (UI: A. Adjesiwor, & J. Spackman)	\$4,000
Biochemical Characterization of a High Beta-Glucan Barley Mutant (UI: Z. Hong, et al.)	\$25,000
Does Barley-Pulse Intercropping Improve Grain Quality in Southern Idaho? (UI: Z. Kayler & X. Liang)	\$4,000
Exploring Traits for Lodging Resistance in Barley Genotypes (UI: X. Liang)	\$10,000
Evaluating Freeze Tolerance of Winter Barley Genotypes with Diverse Genetic Backgrounds (UI: X. Liang)	\$10,000
Investigating Nitrogen Translocation and Grain Protein Accumulation in Spring Barley Genotypes of High and Low Grain Protein (UI: X. Liang)	\$10,000
Small Grains Research Report - Bringing in the Grower for Cereal School Attendance (UI: J. Marshall, et al.)	\$500
Education for Idaho Barley Production: Extension Cereal Nurseries (UI: J. Marshall and K. Schroeder)	\$20,000
Support for Pathology Diagnostic and Extension Projects (UI: J. Marshall & J. Woodhall)	\$14,784
Screening for Resistance to Cereal Cyst Nematode in Current Barley Varieties (UI: J. Marshall)	\$5,000
Evaluating the Impact of an Idaho Invasive Cereal Aphid, <i>Metopolophium festucae cerealium</i> on Malting Barley Quality (UI: A. Rashed, & S. Eigenbrode)	\$6,000
A Survey of Idaho Wireworm Species and Evaluating Ecological and Chemical Approaches to Maximize Barley Production (UI: A. Rashed, J. Marshall, & X. Liang)	\$3,000
Support Scientist Funding - Education for Idaho Barley Production in Northern Idaho: Extension Cereal Nurseries (UI: K. Schroeder)	\$12,675
Evaluation of Elite Barley Lines in Northern Idaho (UI: K. Schroeder)	\$4,000
Active Canopy Sensors to Prescribe In-Season Supplemental Nitrogen for Barley (UI: J. Spackman, O. Walsh & A. Adjesiwor)	\$15,000
UI Barley Agronomy Endowment	\$70,500
UI Idaho Center for Plant and Soil Health – Parma	\$5,000
Aberdeen Barley Breeding Program (USDA-ARS: G. Hu)	\$10,000
Barley Yield and Protein Response to Nitrogen and Sulfur Fertilization (UI: J. Spackman, Z. Hong & J. Marshall)	\$32,000
Assessing Residue Source and Management Practices for Improving Fertilizer Recommendations in Cereal-based Cropping Systems (USDA-ARS: C. Rogers)	\$10,000
Soil Health Sampling for Updating Barley Fertilizer Guide (UI: O. Walsh, J. Spackman, A. Adjesiwor, & E. Nambi)	\$15,000
<b>TOTAL FUNDED</b>	<b>\$316,459</b>



Growers view Barley Extension Test Plots Near Bonners Ferry with IBC funded scientist Dr. Kurt Schroeder of the University of Idaho.

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ability and economic returns to barley growers, while meeting the needs of domestic and export end-users for high-quality barley. Scientists are working to develop management and genetic resistance strategies to mitigate or eliminate the substantial negative economic impact of major barley pests. This enhances the competitiveness of the barley crop, promoting a robust and high-quality supply of domestic barley for various end-users, thus minimizing industry reliance on global imports.

The locations receiving funding through the BPI are (updated annual funding):

USDA-ARS facilities:

- Aberdeen, Idaho (\$213,846)
- Ames, Iowa (\$171,154)
- Fargo, North Dakota (\$291,923)
- Ft. Detrick, Maryland (\$96,154)
- Lincoln, Nebraska (\$55,385)
- Pullman, Washington (\$128,462)

- Raleigh, North Carolina (\$128,462)
- St. Paul, Minnesota (\$291,923)
- Stillwater, Oklahoma (\$213,846)

Universities:

- Cornell University (\$21,538)
- Montana State University (\$43,077)
- North Dakota State University (\$43,077)
- Ohio State University (\$21,538)
- Oregon State University (\$21,538)
- University of California-Davis (\$43,077)
- University of Idaho (\$43,077)
- University of Minnesota (\$85,769)
- University of Nebraska (\$21,538)
- Virginia Tech (\$21,538)
- Washington State University (\$43,077)

Idaho Barley Commissioners Mike Wilkins and Jason Boose represent Idaho barley growers on NBIC and participated in the March congressional visits, along with IBC Executive Director Laura Wilder. ■