

Grant Code: AN2811

Title: Small Grains Research Report – Bringing in the grower for Cereal School Attendance

Personnel: Dr. Juliet Marshall, Ext. Crop Mgmt. Specialist (SC and E Idaho)
Chad Jackson – Research Specialist
Tod Shelman – Scientific Aide II
Linda Beck – Technician
Suzette Arcibal – Technician
Katherine O'Brien – Wheat Quality Lab Manager

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Justification/Rationale:

Idaho is one of the largest cereal producers in the United States. Keeping growers informed of new varieties, agronomic performance, end-use quality, and insect and disease issues is a major part of the Small Grains Programs within the College of Agricultural Sciences (CALS) at the University of Idaho. Providing tools to enhance the economic performance of cereal producers provides economic returns to all sectors that benefit from a healthy wheat and barley economy. In the past, the Small Grains Research Report has been published on-line on the website (<http://www.uidaho.edu/extension/cereals/scseidaho>), on CD-Rom, and in hard copy format. Growers were highly encouraged to utilize the availability of electronic media, yet there are many unused copies of previous reports on CD still sitting in boxes at the Idaho Falls and Aberdeen offices. Prior to 2016, over 400 hard copies were printed in January with complete dispersal achieved by August. Every time we hold cereal schools throughout the region, the number one reason given for attendance is to listen to the Extension variety report and to pick up a copy of the newly released SGR.

The physical copy of the SGR should remain free to the grower – this provides a huge incentive for growers to attend the Cereal School. The cereal school platform is a wonderful delivery tool for information transfer for all of our CALS research projects as well as for the public and private breeding programs, IGPA and the commodity commissions.

Hypothesis & Objectives: The hypothesis is that the SGR draws many growers to attend the UI Cereal Schools. Growers prefer the hard copy of the SGR to peruse at their leisure. The Objective is to continue providing the SGR for free as an incentive to get growers to attend Cereal School and to assist in dissemination of the research findings of all faculty. This sustained attendance at Cereal School benefits all – other researchers trying to disseminate their research results, extension faculty making contacts with stakeholders, industry representatives selling products, as well as the IGPA and commodity commissions that provide updates to growers and can increase their contact hours with producers.

Procedures: Copies of the SGR will be made available to producers at all Cereal Schools. 2017 estimate from FedEx for black and white spiral bound copies was \$4900. 2015 costs to produce 400 black-and-white copies of the SGR for distribution at the Cereal Schools and additional books for miscellaneous distribution were \$6499.30, at \$14 per book for 140 pages. To produce 2017's book in-house it would cost approximately \$15 a book, about \$6,000 for 400 black and white copies. There is no separate funding for this expense. In 2016, we were going to charge \$15 per copy at the cereal schools, but decided against it due to the difficulty in collecting the charges. Frank Curtis (Limagrain Cereal Seeds, \$2000), Scoular (\$500), Thresher (\$500) and Jim Rooney (Lansing \$500) volunteered to help sponsor the publication in order to continue providing the books to attendees free of charge. We will solicit their sponsorship in 2019 as well.

Duration: Continuous

Cooperation/Collaboration: Limagrain Cereal Seeds, Lansing Grain, IBC, Scoular Grain, Thresher Artisan Wheat

Anticipated Benefits, Expected Outcomes and Impacts, and Transfer of Information:

Idaho wheat producers will receive the most recent wheat variety performance information to improve production efficiency, increase economic returns, and maintain their competitiveness. Information on variety performance is shared with growers and industry personnel through cereal schools, published materials, wheat nurseries, demonstrations, field tours and the Internet.

Literature Review: none

References:

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., and O'Brien, K. 2017. 2016 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 191. 139 pp. <http://www.cals.uidaho.edu/edComm/pdf/RES/RES191.pdf>

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., and O'Brien, K. 2016. 2015 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 188. 133 pp. <http://www.cals.uidaho.edu/edComm/pdf/RES/RES188.pdf>

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., and O'Brien, K. 2015. 2014 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 186. 125 pp.

Marshall, J.M., Jackson, C.A., Shelman, T., Beck, L., and O'Brien, K. 2014. 2013 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 182. 116 pp.

Marshall, J.M., Jackson, C.A., Shelman, T., Beck, L., and O'Brien, K. 2013. 2012 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 181. 130 pp.

Marshall, J.M., Jackson, C.A., Shelman, T., Beck, L., and O'Brien, K. 2012. 2011 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 180. 101 pp.

Marshall, J.M., Jackson, C.A., Shelman, T., Beck, L., and O'Brien, K. 2011. 2010 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 177. 99 pp.

FY2020

IDAHO WHEAT COMMISSION - BUDGET FORM

Principal Investigator: Juliet Marshall

Allocated by Idaho Wheat Commission during FY 2018 \$ 2,000

Allocated by Idaho Wheat Commission during FY 2019 \$ 2,000

REQUESTED FY2020 SUPPORT:

Budget Categories	(10) Salaries (staff, post-docs, etc.)	(12) Temp Help	(11) Fringe	(20) Travel	(30) OE	(70) Graduate Tuition/ Fees	TOTALS
Idaho Wheat Commission	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ -	\$ 2,000

TOTAL BUDGET REQUEST FOR FY 2020: \$ 2,000

BREAKDOWN FOR MULTIPLE SUB-BUDGETS:

Budget Categories	(Insert PI Name)	(Insert CO-PI Name)	(Insert CO-PI Name)	(Insert CO-PI Name)
(10) Salaries	\$ -	\$ -	\$ -	\$ -
(12) Temp Help	\$ -	\$ -	\$ -	\$ -
(11) Fringe Benefits	\$ -	\$ -	\$ -	\$ -
(20) Travel	\$ -	\$ -	\$ -	\$ -
(30) Other Expenses	\$ -	\$ -	\$ -	\$ -
(70) Graduate Student Tuition/F	\$ -	\$ -	\$ -	\$ -
TOTALS	\$ -	\$ -	\$ -	\$ -

Total Sub-budgets \$ -

Explanatory Comments:

Fall 2018 Version

ANNUAL REPORT

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Address: Dr. Juliet M. Marshall, 1693 S. 2700 W, Aberdeen, ID 83210, 208-397-4181; jmarshall@uidaho.edu.

Accomplishments:

Idaho is one of the largest cereal producers in the United States. Keeping growers informed of new varieties, agronomic performance, end-use quality, and insect and disease issues is a major part of the Small Grains Programs within the College of Agricultural Sciences (CALs) at the University of Idaho. The Extension Variety Trials have been conducted at the University of Idaho for more than 30 years, the results of which are useless unless delivered in to the hands of those populating the agricultural industry – growers, consultants, breeders, agronomists and those in the end-use markets. Providing tools to enhance the economic performance of cereal producers provides economic returns to all sectors that benefit from a healthy wheat and barley economy. In the past, the Small Grains Research Report has been published on-line on the website (<http://www.uidaho.edu/extension/cereals/scseidaho>), on CD-Rom, and in hard copy format. Growers were highly encouraged to utilize the availability of electronic media, yet there are many unused copies of previous reports on CD still sitting in boxes at the Idaho Falls and Aberdeen offices. Annually, over 400 hard copies of the SGR report were printed in January with complete dispersal achieved by August. Every time we hold cereal schools throughout the region, the number one reason given for attendance is to listen to the Extension variety report and to pick up a copy of the newly released SGR.

Therefore the physical copy of the SGR should remain free to the grower – this provides a huge incentive for growers to attend the Cereal School. The cereal school platform is a wonderful delivery tool for information transfer for all of our CALs research projects as well as for the public and private breeding programs, IGPA and the commodity commissions. We look at it as an anchor that helps the Idaho Ag Experiment Station deliver results of all of our researchers, meeting the mandate of the Cooperative Extension Service.

Wheat trials were conducted at thirteen winter and ten spring locations throughout the state for harvest in the summer of 2019. Results for all trials in the southern / southeastern production area were analyzed and presented in the annual Research Bulletin “2018 Small Grains Report”. The report contains agronomic and end-use quality information on varieties and advanced breeding lines from public and private institutions. In addition, the report includes location information for trials produced on University Research Stations and on grower fields (planting dates, seeding rate, fertilizer inputs, harvest dates, etc). The Results and Discussion provides detailed information on growing conditions, disease and insect issues affecting yield and quality, yield to nitrogen ratios, and yield performance of varieties. Brief descriptions of named, released varieties are provided to give information on specific characteristics (general performance,

disease resistance, or other distinguishing features associated with a specific genotype). The relative performance of each line is given in the graphs of "Yield as a Percentage of Average" at the end of each section. While small plots are not always predictive of variety performance on-farm, the ability to examine the performance of new lines against industry standards assists in the advancement of the industry while facilitating technology transfer.

Projections: Growers, consultants, industry representatives, and public and private breeders utilize the SGR report as a tool to advance research, new varieties, and agronomic practices. The SGR report provides an anchor to the Cereal Schools and field days to draw attendance, facilitating technology transfer and communication from the UI, IBC, IWC and Grain Producers organization to the growers that we represent. Results are presented at cereal schools, field days and many other grower meetings. The results are a mine of information and a source for other researchers to build their programs while cooperating with others.

Publications:

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., and O'Brien, K. 2019. 2018 Small Grains Report, South central and Southeastern Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 196. 150 pp.

Schroeder, K., and White, D. 2018. 2017 Small Grain and Grain Legume Report, Northern Idaho Small Grain and Grain Legume Research and Extension Program. Idaho Agricultural Experiment Station, Research Bulletin 194. 56 pp.

Marshall, J.M., Jackson, C.A., Shelman, T., Jones, L., and O'Brien, K. 2018. 2017 Small Grains Report, South central and Southeastern Idaho Cereals Research and Extension Program. Idaho Agricultural Experiment Station. UI Research Bulletin 193. 142 pp.

Trade journal:

Marshall, J., Schroeder, K., and Walsh, O. 2018. 2017 Idaho spring wheat variety performance tests and 2015-2017 yield summaries. Idaho Grain Magazine Spring, pp. 27-30.