**Conclusions and recommendations from the LUARS 2020 Research Presentation**

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The following brief information could be useful to our producers who may not have time to read lengthy reports:

* We had a very hot and dry June and July in 2020 which impacted the crops’ growth and yield; except that of soybean and edible beans!
* AAC Wheatland and AAC Starbuck (Spring Wheat) could be recommended for cultivation in 2021!
* Synasolis/and Boroe (Spring Barley) gave the highest grain yields!
* AB Brewnet is a new promising Malting Barley variety!
* CDC Bow’s (best over 2017-’20) grain and straw yields declined over the years!
* CDC Arborg and AAC Rigodon were high yielding Oat varieties!
* Even though Keldin and Gallus (Winter Wheat) gave better grain yields than AAC Gateway, these can’t be recommended because they are often prone to winter kill!
* Late (mid Sep) seeded Winter Wheat could be a promising addition to cropping systems!
* Edible Beans (AAC Scotty) could be added to the crop rotations!
* Bourke R2X which has some disease resistance was the top yielding Soybean variety!
* Field Peas were eaten by deer and geese!
* Lentils and Linseed Flax had very poor yields (hot and dry weather)!
* L252, L241C and L230 were the top yielding Liberty Canola varieties!
* 5545CL was the other top yielding Clearfield Canola variety in 2020!
* Winter Canola has failed to winter survive (past two years)!
* AC200 was the highest yielding Mustard variety!
* Galega had higher yield and protein content than Alfalfa (2012-’20)!
* Urea + ESN at 105 kg N/ha produced the best yield for Malting Barley! Sulphur had no effect on Malting Barley yield!
* Urea + ESN @ 80 kg N/ha produced the best grain yield in Wheat!
* Hazlet and Guttino were the best Winter Rye varieties; use 100% recommended seed and fertilizer rates!
* NK21 and Urea + MOP (0-0-60) gave similar grain yields of soybeans!
* Lentils could be grown without addition of N, P, K and S!
* It pays to use multiple sources of N (urea, ammonium sulphate and ESN) as compared to urea alone!
* Seed yield in canola with urea + ESN @ 180 kg N/ha equaled that from urea alone @ 270 kg N/ha!
* Gypsum or ammonium sulphate applied to barley, canola and peas had no residual effect on grain or straw yield of wheat in the next year!
* September 15 is the optimum time to seed Winter Rye!
* There was no residual effect of Winter Rye (at different seed/or fertilizer rates) cover cropping on Canola seed yield!
* Kernza could be grown in mixture with alfalfa!

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