

# SMART DAY

SOYBEAN MANAGEMENT & RESEARCH TRANSFER

## HIGHLIGHTS



On Wednesday, July 19, the third annual SMART Day was held at the Canada-Manitoba Crop Diversification Centre in Portage la Prairie, MB. It was a chilly day, but that didn't deter the spirit of attendees. Enjoy a few highlights from the day!



Harvey Chorney, PAMI, discussed how harvesting speeds, direction and headers affect the most common type of harvest losses: header loss. Enns Bros. generously provided the featured combine and their team's expertise for the afternoon.



Savory chocolate black bean tarts for dessert, created and donated by Joel Lamoureux from Red River College, showcasing culinary research results of a MSPG-funded recipe development project.

Thank you to everyone.  
See you in 2018!



Participants toured MSPG's soybean variety evaluation trials. Dennis Lange, Manitoba Agriculture, discussed how to use MSPG's variety evaluation guide to select high-yielding varieties suited to each maturity zone with appropriate IDC tolerance and phytophthora resistance.



Dr. Ramona Mohr, AAFC, shared results of her MSPG-funded research investigating soybean response to different moisture conditions. Excess moisture and rainfed conditions resulted in similar performance and influenced root rot levels, but drought tolerance differences between varieties may be an important player in the future.



Marla Riekman, Manitoba Agriculture, demonstrated different methods of alleviating soil compaction. After seeing a deep ripper in action, participants compared cover crop rooting structures as an alternative means of soil fracturing.



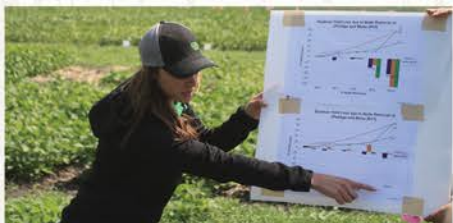
Curtis Cavers, AAFC, manned the soil pit, digging into the characteristics of healthy soil.



Participants learned how to diagnose compacted soil and how it can affect soybean crops. Soil aggregates and plenty of pore space (left) allows for both effective water penetration and drainage compared to compacted soils (right).



Doug Wilcox, MASC, pointed out hail "hot spots" around the province in the last few years. Doug answered questions about hail insurance premiums, deferrals and assessment techniques.



Kristen Podolsky MacMillan, U of M, shared results of MSPG-funded research that shows soybean yield loss due to node removal. Damage induced in vegetative stages has been negligible compared to reproductive stages.



Contrasting leaf defoliation treatments simulating different levels of hail damage.

### ULTIMATE SOYBEAN CHALLENGE

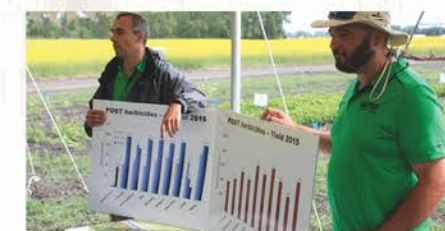


Cassandra Tkachuk, MSPG, utilized the Ultimate Soybean Challenge to walk through farmers' decisions for individual inputs like inoculant or seed treatment. Cassandra shared MSPG's production recommendations for each input.

Greg Bartley, MSPG, backed-up those production recommendations with results from MSPG's On-Farm Network. Data from many individual farms is aggregated to form recommendations, but on-farm testing is important to validate those recommendations locally.



Dr. Rob Gulden and Jon Rosset, U of M, were stationed among soybean demo plots showcasing how row spacing and seeding rate can affect the length of soybean's critical weed free period.



Dr. Rob Gulden, U of M, discussed the efficacy of different pre- and post-emergent herbicides for volunteer canola control. Fast acting modes of action were more effective at preventing soybean yield loss from volunteer canola.