

# 2018 Funding Approved for Research

RESEARCHER	PROJECT	START	END	MPSG FUNDING	TOTAL VALUE		
<b>CROP YIELD AND MARKET QUALITY</b>							
AAFC – Hou	Evaluation and Selection of Azuki beans for Adaptation and Production in Manitoba	2017	2019	\$108,000	\$108,000		
MPSG – <i>On-Farm Network</i>	Soybean Response to Potassium Fertilizer	2017	2018	\$39,000	\$39,000		
MPSG – <i>On-Farm Network</i>	Soybean Response to Seeding Rate	2012	2020	\$19,100	\$19,100		
MPSG – <i>On-Farm Network</i>	Evaluation of Single vs. Double vs No Inoculation Strategies for Soybean	2017	2019	\$19,100	\$19,100		
AAFC – Mohr	Management Practices to Optimize Establishment and Early-Season Growth of Soybean	2017	2019	\$144,022	\$144,022		
U of M – Flaten	Soybean Response to Potassium Fertility and Fertilizer in Manitoba	2017	2018	\$85,226	\$170,453		
U of M – Lawley	Cover Crop Strategies for Dry Bean and Soybean Crops in Manitoba	2017	2019	\$195,444	\$195,444		
U of M – Lawley	Predicting Soybean Phenology in Manitoba	2017	2019	\$96,400	\$192,800		
U of M – Oresnik	Frequency of Soybean Rotation and Persistence of Rhizobia in Manitoba Soils	2017	2018	\$68,700	\$68,700		
AAFC – Mohr	Sustainable Soybean Cropping Systems for Western Manitoba	2017	2021	\$98,325	\$196,651		
U of M – Stasolla	Enhancing Water Stress Tolerance in Soybean Through Phytoglobin Manipulations	2016	2018	\$123,000	\$173,000		
LU – Belzile	SoyaGen: Improving Yield and Disease Resistance in Short-Season Soybean	2015	2018	\$160,000	\$375,000		
MPSG – MCVET	Evaluating Yield, Disease Resistance and Protein in Pulse and Soybean Varieties	1990s	ongoing	cost recovery	cost recovery		
U of M – MacMillan	Soybean Seeding Windows	2017	2019	In 2016, MPSG committed \$400,000 per year for five years to support applied research at the University of Manitoba. Under this program an Agronomist-in-Residence conducts research, extension and student training. Projects are reviewed annually to ensure they align with farmer priorities.			
U of M – MacMillan	Evaluating the Effect of Simulated Hail Damage on Soybeans	2015	2018				
U of M – MacMillan	Soybean Seeding Depth Assessment	2017	2019				
U of M – MacMillan	Soybean Iron Chlorosis – Variety Screening	2017	ongoing				
U of M – MacMillan	Effect of Preceding Crop and Residue Management on Dry Bean	2017	2018				
U of M – MacMillan	Optimizing Nitrogen Rate for Dry Bean Production	2017	2019				
U of M – MacMillan	Novel Pulse Cropping Systems	2017	ongoing			\$32,392	\$57,843
U of M – Lawley	Optimizing the Frequency of Soybean in Manitoba Crop Rotations	2018	2022			\$212,462	\$424,925
PAMI	Assessment of Pre- and Post-Emergent Rolling in Non-Stony Fields	2018	2019			\$113,040	\$113,040
C.W. Grant & Co.	An Economic Investigation of the Quality Discount for Manitoba Soybeans	2018	2018			\$24,600	\$24,600
<b>REDUCE THE COST OF PEST CONTROL</b>							
U of M – Gulden	Rotational Effects and Optimized Plant Spatial Arrangement for Wheat Production in Manitoba	2017	2020	\$82,800	\$349,140		
U of M – Costamagna	Determining the Role of Crop and Non-Crop Habitats to Provide Sustainable Aphid Suppression in Soybean	2017	2019	\$107,838	\$215,677		
U of M – Tenuta	Manitoba Survey and Molecular Quantification of Soybean Cyst Nematode	2017	2018	\$121,612	\$243,225		
MPSG – <i>On-Farm Network</i>	Soybean Response to Fungicide and Insecticide Seed Treatment	2017	2019	\$19,100	\$19,100		
MPSG – <i>On-Farm Network</i>	Field Pea Response to Foliar Fungicide	2017	2019	\$4,800	\$4,800		
MPSG – <i>On-Farm Network</i>	Dry Bean Response to Foliar Fungicide	2017	2019	\$4,800	\$4,800		
U of M – Daayf	Frequency of Soybean Rotations: Exploring Root Rot and Foliar Pathogens	2017	2018	\$106,000	\$106,000		
BU – Cassone	The Most Comprehensive Survey of Foliar Diseases in Manitoba Soybean	2016	2018	\$112,509	\$112,509		
U of M – Gulden	Optimizing Plant Spatial Arrangement and Weed Management for Field Bean Production	2015	2019	\$236,325	\$236,325		
AAFC – McLaren	Management of Root Rot in Pea in Manitoba	2018	2020	\$150,000	\$150,000		
BU – Cassone	Improved Integrative Pest Management of Wireworm in Manitoba	2018	2020	\$78,545	\$157,090		
U of M – Entz	Novel Mechanical Weed Control Tools for Integrated Weed Management in Narrow-Row Field Beans.	2018	2019	\$115,000	\$115,000		
U of M – Entz	Control of Late-Season Herbicide Escapes and Volunteer Canola by Selective Cutting Using the CombCut	2018	2019	\$27,140	\$54,280		
MPSG – <i>On-Farm Network</i>	Soybean Response to Foliar Fungicide	2018	2020	\$15,900	\$15,900		
<b>IMPROVE SOIL QUALITY</b>							
U of M – Lobb	Assessment of the Agronomic and Environmental Impacts of Land Rolling in Soybean Production in Manitoba	2018	2019	\$85,560	\$85,560		

## GROW MARKET DEMAND – Projects Under Development

<b>Total Project Funding Commitments</b>				<b>\$3,001,092</b>	<b>\$4,538,142</b>
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<b>New Projects in Bold</b>	AAFC – Agriculture and Agri-Food Canada BU – Brandon University LU – Laval University	MCVET – Manitoba Crop Variety Evaluation Trials MPSG – Manitoba Pulse & Soybean Growers	PAMI – Prairie Agriculture Machinery Institute U of M – University of Manitoba
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