

2019 Funding Approved for Research

RESEARCHER	PROJECT	START	END	MPSG FUNDING	TOTAL VALUE	
CROP YIELD AND MARKET QUALITY						
MPSG – MCVET	Evaluating Yield, Disease Resistance and Protein in Pulse and Soybean Varieties	1990	ongoing	cost recovery	cost recovery	
MPSG – On-Farm Network	Soybean Response to Seeding Rate	2012	2020	OFN	OFN	
MPSG – On-Farm Network	Evaluation of Single vs. Double vs. No Inoculation Strategies for Soybeans	2017	2019	OFN	OFN	
AAFC – Hou	Evaluation and Selection of Azuki Beans for Adaptation and Production in Manitoba	2017	2019	\$108,000	\$108,000	
AAFC – Mohr	Management Practices to Optimize Establishment and Early-Season Growth of Soybeans	2017	2019	\$144,022	\$144,022	
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	
AAFC – Mohr	Sustainable Soybean Cropping Systems for Western Manitoba	2017	2021	\$98,325	\$196,651	
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	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 Beans	2017	ongoing			
U of M – MacMillan	Optimizing Nitrogen Rates for Dry Bean Production	2017	ongoing			
U of M – MacMillan	Novel Pulse Cropping Systems	2017	ongoing			
U of M – Lawley	Optimizing the Frequency of Soybeans 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
AAFC – Hou	Dry Bean Breeding for Early Maturity and Pest Resistance	2018	2023		\$728,200	\$1,456,000
AAFC – Bing	Dry Pea Breeding for Yield, Pest Resistance and Flavour	2018	2023		\$141,800	\$2,916,000
AAFC – Cober	Soybean Breeding for Early Maturity and Pest Resistance	2018	2023	\$203,920	\$2,368,000	
AAFC – Cober	Soybean Protein Gene Expression Across Environments	2018	2023	\$143,980	\$658,000	
MPSG – On-Farm Network	Soybean Response to Biological Stimulants	2019	2022	OFN	OFN	
MPSG – On-Farm Network	Soybean Response to Row Spacing	2019	2022	OFN	OFN	
MPSG – On-Farm Network	Evaluation of Inoculation Strategies for Peas	2019	2022	OFN	OFN	
MPSG – On-Farm Network	Evaluation of Inoculation Strategies for Dry Beans	2019	2022	OFN	OFN	
MPSG – On-Farm Network	Dry Bean Response to Nitrogen Fertility	2019	2022	OFN	OFN	
MPSG – On-Farm Network	Intercropping with Soybeans	2019	2022	OFN	OFN	
CMCDC	Intercropping Practices for Yellow Pea	2019	2022	\$23,004	\$92,016	
AAFC – Mohr	Economic and Environmental Value of Peas and Soybeans in Rotation	2019	2022	\$77,760	\$155,520	
U of M – Brewin	Economic Analysis Intern Training	2019	2022	\$5,000	\$47,478	
U of M – Stasolla	Genetics to Overcome Drought and Salinity Effects in Soybeans	2019	2022	\$131,220	\$262,440	
U of M – House	Overcoming the Discount for Low Protein: Genetics and Environment Effects	2019	2022	\$45,880	\$183,520	
U of M – Oresnik	A Superior Rhizobium Strain for N-fixation in Soybeans	2019	2022	\$177,336	\$354,672	
MPSG/MWBGA/MCGA	Tools and Techniques to Manage Extreme Moisture	2019	2022	\$120,000	\$823,000	
REDUCE THE COST OF PEST CONTROL						
U of M – Gulden	Rotational Effects and Optimized Plant Spatial Arrangement for Wheat Production in MB	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 Soybeans	2017	2019	\$107,838	\$215,677	
MPSG – On-Farm Network	Soybean Response to Fungicide and Insecticide Seed Treatment	2017	2019	OFN	OFN	
MPSG – On-Farm Network	Field Pea Response to Foliar Fungicide	2017	2020	OFN	OFN	
MPSG – On-Farm Network	Dry Bean Response to Foliar Fungicide	2017	2020	OFN	OFN	
MPSG – On-Farm Network	Soybean Response to Foliar Fungicide	2018	2020	OFN	OFN	
U of M – Gulden	Optimizing Plant Spatial Arrangement and Weed Management for Dry Bean Production	2015	2019	\$236,325	\$236,325	
AAFC – McLaren	Management of Root Rot in Peas 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 Dry 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	
AAFC – Vankosky	Prairie Insect Survey	2018	2023	\$20,000	\$571,000	
AAFC – Leeson	Prairie Weed Survey	2018	2023	\$25,000	\$794,000	
AAFC – Leeson	Prairie Herbicide-Resistant Weed Survey	2018	2023	\$3,000	\$88,000	
AAFC – Turkington	Prairie Disease Monitoring	2018	2023	\$45,000	\$1,360,000	
AAFC – Geddes	Glyphosate-Resistant Kochia – Rotation, Seeding Rates and Row Spacings	2018	2023	\$15,000	\$1,282,000	
PAMI – Landry	Spray Drift Reduction with High-Clearance Sprayers	2018	2023	\$30,000	\$424,000	
AAFC – Mohr	New Crop Rotation Economics	2018	2023	\$35,000	\$1,300,000	
U of L – Le Roy	Economics of Diverse Crop Rotations	2018	2023	\$15,000	\$351,000	
AAFC – Chatterton	Dry Bean White Mould Resistance	2018	2023	\$61,900	\$619,000	
AAFC – Chatterton	Dry Pea Root Rot – Resistance genes, Crop Rotation and Intercropping	2018	2023	\$49,100	\$1,634,000	
U of M – Tenuta	Root Lesion Nematode Survey	2018	2023	\$25,600	\$854,000	
AAFC – McLaren	Prairie Root Disease Survey	2018	2023	\$76,600	\$888,000	
Laval – Belanger	Root Diseases – Genetic Screening Methods	2018	2023	\$48,820	\$652,000	
U of M – Daayf	Defining Pathogen-Related Soil Quality Targets to Pursue by Crop Rotation	2019	2022	\$82,805	\$331,220	
U of M – Daayf	Soybean Disease Survey	2019	2022	\$75,000	\$75,000	
AAFC – Geddes	Integrated Weed Management to Mitigate Glyphosate-Resistant Weeds	2019	2022	\$99,522	\$398,088	
GROW MARKET DEMAND						
U of G – Duncan	Cholesterol-Lowering Properties of Dry Beans	2018	2023	\$183,600	\$1,214,000	
U of S – Nickerson	Pulse Ingredient Processing for Improved Flour Quality	2018	2023	\$116,400	\$3,666,000	
AAFC – Balasubramarium	Dry Bean Cooking Quality	2018	2023	\$15,900	\$616,000	
RRC – McRae	Manufacturing Tofu from Dry Beans	2019	2022	\$44,092	\$88,184	
IMPROVE SOIL QUALITY						
U of M – Lobb	Assessment of the Agronomic and Environmental Impacts of Land Rolling in Soybeans	2018	2019	\$85,560	\$85,560	
U of M – Lawley	Cover Crops – Establishment Windows, Soil Health and Yield	2018	2023	\$40,000	\$1,502,000	
MPSG – On-Farm Network	Field Rolling in Soybeans	2018	2021	OFN	OFN	
				On-Farm Network (OFN)	\$430,000	\$430,000
				Total Project Funding Commitments	\$5,156,340	\$31,162,092

New Projects in Bold

AAFC – Agriculture and Agri-Food Canada
 BU – Brandon University
 CMCDC – Canada-Manitoba Crop Diversification Centre

LU – Laval University
 MCGA – Manitoba Corn Growers Association
 MCVET – Manitoba Crop Variety Evaluation Trials
 MPSG – Manitoba Pulse & Soybean Growers

MWBGA – Manitoba Wheat and Barely Growers Association
 PAMI – Prairie Agriculture Machinery Institute
 RRC – Red River College

U of G – University of Guelph
 U of M – University of Manitoba
 U of S – University of Saskatchewan