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
AAFC – Mohr	Management Practices to Optimize Establishment and Early-Season Growth of Soybeans	2017	2021	$73,462	$144,022
IHARF				$35,280	
CMCDC				$35,280	
U of M – Lawley	Cover Crop Strategies for Dry Beans and Soybeans in Manitoba	2017	2022	$195,444	$195,444
AAFC – Mohr	Sustainable Soybean Cropping Systems for Western Manitoba	2017	2022	$98,325	$196,651
U of M – MacMillan	Soybean Iron Deficiency Chlorosis – Variety Screening	2017	ongoing	In 2016, MPSG committed $400,000 per year for five years to support applied research at the U of M. 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	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 – MacMillan	Pea Crop Rotation Length and Sequence	2020	2023		
U of M – Lawley	Optimizing the Frequency of Soybeans in Manitoba Crop Rotations	2018	2023	$172,931	$496,588
U of M – Ayele	Mitigating Soybean Harvest Losses by Enhancing Podding Height	2018	2022	$71,453	$164,822
AAFC – Hou	Dry Bean Breeding for Early Maturity and Pest Resistance	2018	2023	$728,188	$1,456,376
AAFC – Bing	Pea Breeding for Yield, Pest Resistance and Flavour	2018	2023	$98,630	$2,776,828
AAFC – Han				$43,155	
AAFC – Cober	Short-Season Food-Type Soybean Breeding	2018	2023	$186,930	$2,368,188
AAFC – Cober	Meeting the Soybean Protein Meal Standard in Western Canada	2018	2023	$131,699	$658,500
U of G – Rajcan	Breeding for Organic Soybean Production	2018	2023	$20,000	$157,143
MPSG – On-Farm Network	Soybean Response to Seeding Rate	2012	ongoing	OFN	OFN
MPSG – On-Farm Network	Evaluation of Single vs. Double vs. No inoculation Strategies for Soybeans	2017	ongoing	OFN	OFN
MPSG – On-Farm Network	Soybean Response to Biological Stimulants	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Soybean Response to Row Spacing	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Evaluation of Inoculation Strategies for Peas	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Evaluation of Inoculation Strategies for Dry Beans	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Dry Bean Response to Nitrogen Fertility	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Intercropping with Soybeans	2019	ongoing	OFN	OFN
MPSG – On-Farm Network	Pea Response to Seeding Rate	2021	ongoing	OFN	OFN
WADO	Intercropping Practices for Yellow Peas	2019	2022	$23,004	$69,012
AAFC – Mohr	Economic and Environmental Value of Peas and Soybeans in Rotation	2019	2022	$82,800	$160,560
U of M – Stasolla	Genetics to Overcome Drought and Salinity Effects in Soybeans	2019	2022	$139,725	$270,945
U of M – House	Overcoming the Discount for Low Protein: Genetic and Environmental Effects	2019	2021	$48,875	$140,635
U of M – Oresnik	A Superior Rhizobium Strain for N-Fixation in Dry Beans	2019	2022	$188,830	$366,166
MPSG/MCA/MCGA	Tools and Techniques to Manage Extreme Moisture	2019	2022	$120,000	$823,000
U of M – House	Evaluating the Feeding Value of Western Canadian Soybeans for Layers, Pullets, Broilers and Swine	2020	2023	$239,760	$479,520
U of M – Oresnik	Effect of the Frequency of Soybeans in Rotation on Rhizobium and Soil Microbial Community	2020	2023	$110,486	$214,247
Roquette	Variety Adaptation Trial for Higher Protein Peas	2020	2022	$0	$17,064
Roquette	On-Farm Assessment of Precision Phosphorus Management for Crop Dry-Down	2020	2022	$0	$17,280
Roquette	Better Understanding of Return on Investment of Intercropping Combinations	2020	2022	$0	$18,507
Roquette	Efficacy and Return on Investment of Foliar Fungicide in Yellow Peas	2020	2022	$0	$64,800
Roquette	Pea Protein Survey/Investigation in the Swan River Region	2020	2020	$0	$5,076
Roquette	Volunteer Soybean Control in Yellow Pea Production	2020	2022	$0	$22,200
AAFC – Mohr	Optimizing Nitrogen and Phosphorus Management for Dry Beans in Southwestern Manitoba	2021	2023	$93,150	$186,300
PAMI	Pea Seed Mortality Due to Air Seeder Damage	2021	2023	$31,050	$62,100
Morden Community Economic Development Corporation	Validating Opportunities and Building Local Capacity for Digital Agriculture	2021	2023	$32,000	$202,000

continued ▸

RESEARCHER	PROJECT	START	END	MPSG FUNDING	TOTAL VALUE
	REDUCE THE COST OF PEST CONTROL				
U of M – Gulden	Rotational Effects and Optimized Plant Spatial Arrangement for Wheat Production in Manitoba	2017	2022	$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	2021	$107,838	$215,677
MPSG – On-Farm Network	Field Pea Response to Foliar Fungicide	2017	ongoing	OFN	OFN
MPSG – On-Farm Network	Dry Bean Response to Foliar Fungicide	2017	ongoing	OFN	OFN
MPSG – On-Farm Network	Soybean Response to Foliar Fungicide	2018	ongoing	OFN	OFN
MPSG – On-Farm Network	Faba Bean Response to Foliar Fungicide	2020	ongoing	OFN	OFN
AAFC – McLaren	Management of Root Rot in Peas in Manitoba	2018	2023	$0	$88,305
U of A				$45,404	
AAFC – Vankosky	Prairie Insect Survey	2018	2023	$20,000	$571,000
AAFC – Leeson	Prairie Weed Survey	2018	2023	$25,000	$753,100
AAFC – Leeson	Prairie Herbicide-Resistant Weed Survey	2018	2023	$3,000	$88,000
AAFC – Geddes	The Next Generation of Prairie Herbicide-Resistant Weed Surveys	2020	2023	$48,445	$96,890
AAFC – Turkington	Prairie Disease Monitoring Network	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 – Leroy	Economics of Diverse Crop Rotations	2018	2023	$15,000	$351,000
AAFC – Chatterton	Optimizing Disease Management Strategies for White Mould and Bacterial Blights of Dry Beans	2018	2023	$61,951	$616,904
AAFC – Chatterton	Pea Root Rot – Resistance Genes, Crop Rotation and Intercropping	2018	2023	$30,679	$1,636,818
U of S – Shirtliffe				$18,426	
U of M – Tenuta	Root Lesion Nematode Survey	2018	2023	$20,639	$853,813
AAFC – Chatterton				$4,975	
AAFC – McLaren	Strategies for Effective Management of Phytophthora and the Root Rot Complex of Soybeans	2018	2023	$75,506	$887,919
LU – Bélanger	Root Diseases – Genetic Screening Methods	2018	2023	$44,657	$652,776
U of M – Daayf	Defining Pathogen-Related Soil Quality Targets for Annual Legumes to Pursue Through Crop Rotation	2019	2022	$88,172	$253,782
AAFC – Geddes	Integrated Weed Management to Mitigate Glyphosate-Resistant Weeds	2019	2022	$110,940	$309,984
Roquette	Developing the Capacity to Detect and Quantify Aphanomyces Oospores and Disease Severity in Manitoba	2020	2022	$0	$36,936
AAFC – Geddes	Manipulating Weed Seed Production Through Phenology-Based Weed Control	2021	2023	$11,556	$92,448
ACC – Singh	Developing a Weather-Based Fungicide Application Decision Support Tool for Managing White Mould in Dry Beans	2021	2023	$41,850	$83,700
	GROW MARKET DEMAND				
U of G – Duncan	Cholesterol-Lowering Properties of Dry Beans	2018	2023	$136,431	$757,680
AAFC – Ramdath				$47,196	
U of S – Nickerson	Pulse Ingredient Processing for Improved Flour Quality	2018	2023	$103,802	$2,866,150
AAFC – Hou				$12,571	
AAFC – Balasubramanium	Dry Bean Cooking Quality	2018	2023	$15,942	$87,444
	IMPROVE SOIL QUALITY				
U of M – Lawley	Cover Crops – Establishment Windows, Soil Health and Yield	2018	2023	$40,000	$1,519,772
MPSG – On-Farm Network	Tillage Management for Dry Beans	2020	ongoing	OFN	OFN
AAFC – Crittenden	Understanding How Soil Health Affects Corn and Soybean Yield and Quality	2020	2023	$60,350	$241,400
New Era Ag	Using Wood Ash as a Soil Amendment to Control Clubroot – Effect on Peas and Soybeans in Northwestern Manitoba	2020	2023	$7,500	$153,540
Agri-Earth Consulting, PBS Water Engineering	Beneficial Practices for Soil and Water Quality, Excess Water and Drought Resiliency in Southwestern Manitoba	2020	2023	$33,729	$391,200
PAMI	The Effect of Low Ground Pressure Traffic Systems on Soil Compaction in Heavy Clay Soils Affected by Extreme Moisture Conditions	2021	2023	$21,000	$137,500
U of M – Bakker	Integrating Microbiology into Assessments of Soil Health in Manitoba	2021	2023	$37,827	$151,308

† At time of printing.

AAF – Alberta Agriculture and Forestry
AAFC – Agriculture and Agri-Food Canada
BU – Brandon University
CMCDC – Canada-Manitoba Crop Diversification Centre
IHARF – Indian Head Agricultural Research Foundation
LU – Laval University
MCGA – Manitoba Canola Growers Association
MCVET – Manitoba Crop Variety Evaluation Trials
MPSG – Manitoba Pulse & Soybean Growers
MCA – Manitoba Crop Alliance
PAMI – Prairie Agriculture Machinery Institute
RRC – Red River College
U of A – University of Alberta
U of G – University of Guelph
U of L – University of Lethbridge
U of M – University of Manitoba
U of S – University of Saskatchewan
WADO – Westman Agricultural Diversification Organization