2022 Funding Approved for Research⁺

OUR GOAL IS to have the list of projects below reflect the breadth of ideas and information pulse and soybean growers are eager to embrace. The list demonstrates that MPSG's research programs remain focused on four broad areas we think are important to members. Most topics within each area are drawn from first-hand observations of crops and soils recorded by farmers, agronomists and researchers. However, in the search for answers, we've learned it is necessary to reach into realms we can't observe first-hand. As a result, the list contains projects in areas such as soil microbiology and plant genomics that probe nature at a scale we cannot comprehend without the use of modern scientific tools. We used to refer to projects using such tools as "upstream" to distinguish them from research with more immediate and practical results. Nowadays, we recognize such a distinction is unfair. Every question we seek to solve through research affects the improvement of farm practices.

Moreover, we've also learned that most projects, no matter how practical, do not stand on their own. Results always need to be interpreted in the context of a particular farm application. So, we've complemented research investments with knowledgeable MPSG extension professionals who provide that critical interpretive service through mediums like this magazine. Also, we supplement our own efforts with interpretive partnerships across the industry spectrum. In that regard, the list contains projects that were developed in the context of maximizing members' success in fulfilling yellow pea contracts with Roquette.

RESEARCHER	PROJECT	START	END	MPSG FUNDING	TOTAL VALUE				
IMPROVE YIELD AND QUALITY									
MPSG – MCVET	Evaluating Yield, Disease Resistance and Protein in Pulse and Soybean Varieties	1990	ongoing	cost recovery	cost recovery				
AAFC – Mohr		2017	2022	\$73,462	\$144,022				
IHARF	Management Practices to Optimize Establishment and Early-Season Growth of Soybeans			\$35,280					
CMCDC				\$35,280					
U of M – Lawley	Cover Crop Strategies for Dry Beans and Soybeans in Manitoba	2017	2022	22 \$195,444 \$195,4					
AAFC – Mohr	Sustainable Soybean Cropping Systems for Western Manitoba	2017	2022	\$98,325					
U of M – MacMillan	Optimizing Nitrogen Rates for Dry Bean Production	2017	ongoing	year for five years to support applied					
U of M – MacMillan	Novel Pulse Cropping Systems	2017	ongoing	. Under this program sidence conducts					
U of M – MacMillan	Pea Crop Rotation Length and Sequence	2020	2023	research, extension and student training Projects are reviewed annually to ensure they align with farmer priorities.					
U of M – Lawley	Optimizing the Frequency of Soybeans in Manitoba Crop Rotations	2018	2023	\$129,519	\$496,588				
U of M – Ayele	Mitigating Soybean Harvest Losses by Enhancing Podding Height	Mitigating Soybean Harvest Losses by Enhancing Podding Height 2018 2022		\$82,411	\$164,822				
AAFC – Hou	Dry Bean Breeding for Early Maturity and Pest Resistance		2023	\$728,188	\$1,456,376				
AAFC – Bing			2023	\$98,630	\$2,776,828				
AAFC – Han	Pea Breeding for Yield, Pest Resistance and Flavour	2018	2025	\$43,155	<i></i>				
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	2013	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				

Import Viet and Viet and Inscription Strategies for PS as a set of the Strategies for PS as	RESEARCHER	PROJECT	START	END	MPSG FUNDING	TOTAL VALUE			
MSG-On-Farm Network Advation of inoculation Strategies for Dyseams Query Query Query Query Query Query MSG-On-Farm Network Resenance to Seeding Rate Query Query<									
MPSC - On Farm Network Vip Bear Response to Nitrogen Fredility 2001 ongoins OFN MPSC - On Farm Network Response to Seeding Rate 2001 2022 52.000 60.000 MADO Intercorpping Practices for Vellow Peas 2009 2022 52.000 52.000 AAF - Mohr Exteroropping Practices for Vellow Peas 2009 2020 62.000 52.000 Of M - Assall Consonic and Environmental Value of Peas and Soybeans in Education Solveans 2009 2022 62.000 52.000 Of M - Assall Superior Rhate Motion 2009 2020 52.000 52.000 U of M - House Foreign Harbeding Marie Mestern Canadian Soybeans for Jayens, Market Mestern Canadian Soybeans in Rolation an Bitzbitum and Sol Montalion 2000 2020 52.000 52.000 U of M - House Foreign Harbeding Market Mestern Canadian Soybeans in Rolation and Bitzbitum and Sol Montalion 2000 2020 52.000 52.000 U of M - House Foreign Assactment of Mestion Market Mesedian Market	MPSG – On-Farm Network			ongoing	OFN	OFN			
MPSC - 0.F arm Network Reak Response to Seeding Rate 2021 english O.W. WADO Intercorpting Practices for Yellow Pess 209 2022 523.04 550.00 AFE - Mohr Exonomic and Environmental Value of Pess and Soybeans in Rotation 2019 2022 528.08 550.00 U of M - Oreau Soybean Protein Ensing in the Regional Variety Triais 2020 2020 528.00 550.00 U of M - Oreau Associan Texting in the Regional Variety Triais 2020 2020 528.00 52	MPSG – On-Farm Network	Evaluation of Inoculation Strategies for Dry Beans	2019	ongoing	OFN	OFN			
MADCIntercopping Practices for Yellow PeassSolutionSolutionSolutionAA/C - MohrEconomic and Environmental Value of Peas and Soybeans in Rotation20192022532.00545.00U of M - StazollaGenetics to Overcome Drought and Sainity Effects in Soybeans20192022518.00556.00U of M - StazollaSoybean Protein Testing in the Regional Variety Trials20202010556.00556.00U of M - GuassiA Superior Rhizobium Stain for N-Fixation in Dry Beans20002020518.00536.00U of M - GuassiEnvironmental Andreage Extrem Molecular20202020501.00517.00U of M - OreankEnvironmental Sort Method20202020501.00517.00RoquetteDefect of the Frequency of Soybeans in Rotation on Rhizobium and Soil Microbal20202020500.00517.00RoquetteOn-Farm Assessment of Protein Peas20202020500.00517.00RoquetteDefect of the Frequency OS soybeans in Rotation on Rive Soybeans20202020500.00RoquetteDefect of the Soybeans and Prosphorus Management for Dry Dorn20202020500.00RoquetteDefect of Grank Extension Rack Select20202020500.00518.00RoquetteDevelopment and Freisbial Arrangement for Dry Beans20202020500.00518.00RoquetteDevelopment and Solutation Gra Estypeia Arrangement for Wheat Producin2020520.00518.00RoguetteOpeloment and Solu	MPSG – On-Farm Network	Dry Bean Response to Nitrogen Fertility	2019	ongoing	OFN	OFN			
AFC-More Roman and environmental Value of Peaks and Soybeans in Rotation 200 2020 53200 20200	MPSG – On-Farm Network	Pea Response to Seeding Rate	2021	ongoing	OFN	OFN			
Und M- StabulaGenetics to Overcome Drought and Salinity Effects in Space SalinitySingle SalinitySingle SalinityUnd M- HouseSobean Protein Testing in the Regional Variety TrialsSingle SalinitySingle SalinityUnd M- OreankAsperior Rhizeblum Strain for N- Frazion in Dy BeansSingle SalinitySingle SalinityMFSG/MCAMGGATools and Techniques to Manage Externe MoistureSingle SalinitySingle SalinityUnd M- HouseProfessional Sobeans in Rotation on Rhizeblum Salinity MathematicaSingle SalinitySingle SalinityRoquetteOrrier Fraguency OSybeans in Rotation on Rhizeblum Salinity MathematicaSingle SalinitySingle SalinityRoquetteOrrier Massesment of Precision Phosphorus Management for Chappo-toomSingle SalinitySingle SalinityRoquetteDevelopment of Organic Extension Fact SteetsSingle SalinitySingle SalinitySingle SalinityRoquettePrecedenting Rhisephand Phosphorus Management for Dry DevelopSingle SalinitySingle SalinitySingle SalinityRoquetteDevelopment of Organic Extension Fact SteetsSingle SalinitySingle SalinitySingle SalinityRotation Schement of Salinity Rhisephand Phosphorus Management for Dry Development and Valuation of Fatight Annagement for Dry BalanitySingle SalinitySingle SalinityRotation Schement of Salinity Rhisephand Phosphorus Management for Dry BalanitySingle SalinitySingle SalinitySingle SalinityRotation Schement of Salinity Rhisephan Annagement for Dry BalanitySingle SalinitySingle SalinitySingle SalinityRotat	WADO	Intercropping Practices for Yellow Peas	2019	2022	\$23,004	\$69,012			
Under HouseSolvapper Potein Testing in the Regional Variety Trials202290001956.595956.595Und M - OresmikAsuperior Rhizobium Strain for N-Fixation in Dry Beans20192022510.0005823.000MPSG/MCA/MCGATools and Techniques to Manage Extreme Moisture20092023510.0005823.000Und M - HousePellessing in the Feeding Value of Western Canadian Soybeans for Layers, Beles of the Frequency of Soybeans in Rotation on Rhizobium and Soil Microbial20002023510.4865214.47RoquetteVariety Adaptation Trial for Higher Potein Peas20002020202050.00517.280RoquetteDe for The Assessment of Precision Phosphorus Management for Crop Dry Down2020202050.00518.570RoquetteDevelopment of Organic Extension fact Stheres2020202050.00518.570RoquetteDevelopment of Organic Extension fact Stheres2020202251.000518.570RoquetteSeede Mortality Due to Air Seeder Damage2021202351.000518.570PARPaintobaSeede Mortality Due to Air Seeder Damage2021202351.00051.0000Portion Engense Extension fact Stheres2020202251.00051.0000Portion Engense Extension Fact Sthere2020202251.00051.0000Portion Engense Extension fact Stheres2020202351.000051.0000Portion Engense Extension Fact Sthere2020202251.000051.0000Portion	AAFC – Mohr	Economic and Environmental Value of Peas and Soybeans in Rotation	2019	2022	\$82,800	\$160,560			
U of M - OresnikSuperior Rhizobium Strain for M-Fixation in Dry Beans20192022SIB8,330S36.166MPSG/MCA/MCGATools and Techniques to Manage Extreme Moisture20192021S120,000S233,000U of M - HousePulces, Sionles and Swine202020202023S10,486S214,247RoquetteEffect of the Frequency of Soybeans in Rotation on Rhizobium and Sail Microbial20202020500S172,80RoquetteOn Farm Assessment of Precision Phosphorus Management for Crop Dry Down20202022500S172,80RoquetteDevelopment of Organic Extremosin fact Steps20202022500S172,80RoquetteDevelopment of Organic Extremosin fact Steps20202022500S18,830RoquetteDevelopment of Organic Extremosin fact Steps20202022500S18,830RoquetteDevelopment of Organic Extremosin fact Steps20202022500S18,830RoquetteDevelopment of Organic Extremosin fact Steps20212022S22,000S22,000PMMPes Steed Morality Due to Air Seeder Damage20212022S22,000S22,000Morden CommunitySaled Morality Due to Air Seeder Damage20212022S22,000S22,000PMMPes Seeded Morality Due to Air Seeder Damage20212022S22,000S22,000U of M - GuidenSaled Morality Due to Air Seeder Damage20212023S22,000S22,000U of M - GuidenSaled Morality Due to Air S	U of M – Stasolla	Genetics to Overcome Drought and Salinity Effects in Soybeans	2019	2022	\$139,725	\$270,945			
MPSG/MCA/MCAGAIoisand Techniques to Manage Extreme MolstureIoinIoinStatuting the feeding value of Western Canadian Soybeans for Layers. Western Extender and SoineIoinIoinStatuting the feeding value of Western Canadian Soybeans in Rotation on Rhizobium and Soil Microbial CommunityIoinIoinStatuting the feeding value of Western Canadian Soybeans in Rotation on Rhizobium and Soil Microbial CommunityIoinIoinStatuting the feeding value of Western 	U of M – House	Soybean Protein Testing in the Regional Variety Trials	2022	ongoing	\$56,595	\$56,595			
Under House Pullets, Broilers and Swine Pullets, Broilers and Phosphorus Management for Dry Bans in Southwash Parational Phosphorus Management for Dry Bans in Southwash Pa	U of M – Oresnik	A Superior Rhizobium Strain for N-Fixation in Dry Beans	2019	2022	\$188,830	\$366,166			
Doring Pulles, broiner and swine200020035039,005049,000 uf M - OresmikCommunitySinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)RequetteVariety Adaptation frial for Higher Protein PeaseSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)RequetteOn-Farm Assessment of Precision Phosphorus Management for Corp UponomSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)RequetteDevelopment of Organic Extension Fact SheetsSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)AFC - MohrDevelopment of Organic Extension Fact SheetsSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)PMIDevelopment of Organic Extension Fact SheetsSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)PMIDevelopment and Extension fact SheetsSinue (Springer and Swine)Sinue (Springer and Swine)Sinue (Springer and Swine)PMIDevelopment and Springer and Springer Sheat Scringer and Springer and Springer Sheat Scringer Scringe	MPSG/MCA/MCGA	Tools and Techniques to Manage Extreme Moisture	2019	2022	\$120,000	\$823,000			
Udm - Oreshik First of the frequency of solvates in Rotation on Rhizobium and Sol Marks 2020 2020 2040 50400 Requeta Nation Adaptation Trial for Higher Protein Peason 2020	U of M – House		2020	2023	\$239,760	\$479,520			
Requete Variety Adaptation Trial for Higher Proteine Pass Sector Sector <td>U of M – Oresnik</td> <td>Effect of the Frequency of Soybeans in Rotation on Rhizobium and Soil Microbial</td> <td>2020</td> <td>2023</td> <td>\$110,486</td> <td>\$214,247</td>	U of M – Oresnik	Effect of the Frequency of Soybeans in Rotation on Rhizobium and Soil Microbial	2020	2023	\$110,486	\$214,247			
RequeteEter Understanding fleturun in Investment of Intercorpping Combinations20205.0005.05.000RequeteGevolopment of Organic Extension Fact Sheets200020205.03.005.05.000ArC- MohrQuitnizing Nitrogen and Phosphorus Management for Dry Beans in Southwesten20215.03.005.05.000PMIBes Ged Mortality Due to Air Seeder Damaage20205.03.005.03.0005.03.000Ord W- Biding Coportunities and Building Local Capacity for Digital Agriculture20215.03.005.03.000U of W - Bidinona Effects and Optimized Plant Spatial Arrangement for Wheat Producin20235.03.0005.03.000U of M - GuidenReational Effects and Optimized Plant Spatial Arrangement for Wheat Producin20235.03.0005.03.000U of M - GuidenReational Effects and Optimized Plant Agriculture20105.03.0005.03.0005.03.000U of L - LeroyReational Effects and Optimized Plant Agriculture20105.03.0005.03.0005.03.000U of L - LeroyReational Effects and Optimized Plant Agriculture20105.03.0005.03.0005.03.000D of L - LeroyReational Effects and Optimized Plant Agriculture20105.03.0005.03.0005.03.000D Space AgricultureStational Effects and Optimized Plant Agriculture20105.03.0005.03.000D G D - LeroyStational Effects and Optimized Plant Agriculture20105.03.0005.03.000D Space AgricultureStational Effects and Optimized Plant Agriculture20105	Roquette	-	2020	2022	\$0	\$17,064			
RequetePerformanceResponse of the second seco	Roquette	On-Farm Assessment of Precision Phosphorus Management for Crop Dry-Down		2022	\$0	\$17,280			
RoquetteDevelopment of Organic Extension Fact Sheets202020202020500AAFC - MohrOptimizing Nitrogen and Phosphorus Management for Dry Beans in Southwesten20212023393,150586,300PAMIPea Seed Mortality Due to Air Seeder Damage202120222023532,000520,200Morden CommunityValidating Opportunities and Building Local Capacity for Digital Agriculture Corporation20212023524,300520,200U of W - BildinostiDevelopment and Evaluation of a Fully-Automated Data Rover for Rapid Data Collection of Stress Tolerance in Soybeans201720222023524,300534,904U of M - GuldenNew Crop Rotation Economics201820172022515,000531,000U of L - LeroyEconomic Soybeans20182018215,000531,000U of L - LeroyEconomics To Diverse Crop Rotations20182023515,000531,000MSSG - On-Farm NetworkFled Pacesponse to Foliar Fungicide20170ngoing0FN0FNMSSG - On-Farm NetworkSteakane Exploration Economics201820190GIM0FNMSSG - On-Farm NetworkSteakane Exploration Economica20190GIM0FN0FNMSSG - On-Farm NetworkFled Pacesponse to Foliar Fungicide20170going0FN0FNMSSG - On-Farm NetworkSteakane Exploration Economica20180GIM0FN0FNMSSG - On-Farm NetworkSteakane Economica20190GIM0FN0FN	Roquette	Better Understanding of Return on Investment of Intercropping Combinations		2022	\$0	\$18,507			
AAFC - MohrOptimizing Nitrogen and Phosphorus Management for Dry Beans in Southwest of Manitoba20212023S93,150S186,300PAMPea Seed Mortality Due to Air Seeder Damage20212022202052,20,000Morden Community CorporationValidating Opportunities and Building Local Capacity for Digital Agriculture20212023\$22,300\$202,000U of W - Bidinost CorporationPeelogment and Evaluation of a Fully-Automated Data Rover for Rapid Dam Bulection of Stress Tolerance in Soybeans Manitoba20222023\$24,300\$48,600U of W - Bidinost CorporationPeelogment and Evaluation of a Fully-Automated Data Rover for Rapid Dam Bulection of Stress Tolerance in Soybeans Manitoba20202023\$24,300\$48,600U of W - Bidinost CorporationPeelogment and Evaluation of a Fully-Automated Data Rover for Rapid Dam Manitoba2020\$2020\$243,000\$48,600U of M - GuidePeelogment and Evaluation of Stress Tolerance in Soybeans Manitoba2020\$2020\$243,000\$48,600A FC - MohrNew Crop Rotation EconomicsEconomics\$2020\$253,000\$253,000\$253,000\$253,000U of L - LeroyRote Rota Rota Fondia FungicideStreet Economics\$2020\$253,000\$253,000\$253,000\$253,000MSSG - On-Farm NetworkFelde RaeRosons Ecoliar FungicideStreet Economics\$2020\$203,000\$2070,000\$2070\$2070,000MSSG - On-Farm NetworkFalse Raegonse to Foliar FungicideStreet Economics\$2020\$203,	Roquette	Pea Protein Survey/Investigation in the Swan River Region		2020	\$0	\$5,076			
AAR-C. MohrManitobaMani	Roquette	Development of Organic Extension Fact Sheets		2022	\$0	\$3,072			
Morden Community Corporation Validating Opportunities and Building Local Capacity for Digital Agriculture of W- Bidinosti Capacity Statume Statume	AAFC – Mohr		2021	2023	\$93,150	\$186,300			
Konpoint Constraint Constraint Name Display Low Display Action Display Action Display Action Constraint <td>PAMI</td> <td>Pea Seed Mortality Due to Air Seeder Damage</td> <td>2021</td> <td>2022</td> <td>\$31,050</td> <td>\$62,100</td>	PAMI	Pea Seed Mortality Due to Air Seeder Damage	2021	2022	\$31,050	\$62,100			
U of W - BidinosDevelopment and Evaluation of a Fully-Automated Data Rover for Rapid Data Constitution of Stress Dierance in Soybeans Rotation Effects and Optimized PlantSpatial Arrangement for Weak Namitoba2022302.00343.000A G M - G M - Constitution Effects and Optimized PlantSpatial Arrangement for Weak 	Economic Development	Validating Opportunities and Building Local Capacity for Digital Agriculture		2023	\$32,000	\$202,000			
U of M - GuidanRational Effects and Optimized Plant Spatial Arrangement for When Plant Arrangement for W		, , , , , , , , , , , , , , , , , , , ,	2022	2023	\$24,300	\$48,600			
AAFC - MohrNew Crop Rotation Economics20182023535,000U of L - Leroycomics of Diverse Crop Rotations20182023515,000BIOLECTENCENENEMPSG - On-Farm NetwoFiel Pace Response to Foliar Fungicide20170 ngoingOFNMPSG - On-Farm NetwoSoban Response to Foliar Fungicide2018301000 OFNMPSG - On-Farm NetwoSoban Response to Foliar Fungicide20182010030100MPSG - On-Farm NetwoSoban Response to Foliar Fungicide20182010030100MPSG - On-Farm NetwoSoban Response to Foliar Fungicide20182010030100MPSG - On-Farm NetwoSoban Response to Foliar Fungicide20182010030100AFC - On-Farm NetwoSoban Response to Foli	U of M – Gulden	Rotational Effects and Optimized Plant Spatial Arrangement for Wheat Production		2022	\$82,800	\$349,140			
Image: constraint of the second of the	AAFC – Mohr	New Crop Rotation Economics	2018	2023	\$35,000	\$1,300,000			
MPSG-On-Farm NetworkField Pea Response to Foliar Fungicide2017ongoingOFNMPSG-On-Farm NetworkOxbean Response to Foliar Fungicide20180ngoingOFNOFNMPSG-On-Farm NetworkSobean Response to Foliar Fungicide20180ngoingOFNOFNMPSG-On-Farm NetworkFab Bean Response to Foliar Fungicide20200ngoingOFNOFNAAFC-McLaren	U of L – Leroy	Economics of Diverse Crop Rotations	2018	2023	\$15,000	\$351,000			
APSG - On Farm NetworkDY Ban Response to Foliar Fungicide2017OngoingOFNMPSG - On Farm NetworkSobean Response to Foliar Fungicide201830goingOFNOFNMPSG - On Farm NetworkFab Ban Response to Foliar Fungicide20200ngoingOFNOFNAAFC - MachanAnggenen of Game Same Same Same Same Same Same Same S		REDUCE THE COST OF PEST CONTROL							
MPSG - On-Farm NetworkSoybean Response to Foliar Fungicide2018OngoingOFNMPSG - On-Farm NetworkFaba Bean Response to Foliar Fungicide201820200ngoingOFNOFNAAFC - McLarenAngement of Root Rot in Peas in Manitoba20182023\$0\$0SI of APaire Insect Survey20182013\$20\$100\$300\$57000AAFC - LeesonPaire Medicarenspont20182023\$25,000\$573,000AAFC - LeesonPaire Medicarenspont20182023\$3000\$68,000AAFC - LeesonPaire Medicarenspont2020\$2030\$68,000AAFC - LeesonPaire MedicarenspontPaire Medicarenspont\$2000\$2030\$68,000Paire MedicarenspontPa	MPSG – On-Farm Network	Field Pea Response to Foliar Fungicide	2017	ongoing	OFN	OFN			
MPSG - On-Farm NetworkFaba Bean Response to Foliar Fungicide2020ongoingOFNAAFC - McLaren $Aagement of Root Root Root Root Root Root Root $	MPSG – On-Farm Network	Dry Bean Response to Foliar Fungicide	2017	ongoing	OFN	OFN			
AAFC - McLaren 1000	MPSG – On-Farm Network	Soybean Response to Foliar Fungicide	2018	ongoing	OFN	OFN			
Analysis Analy	MPSG – On-Farm Network	Faba Bean Response to Foliar Fungicide	2020	ongoing	OFN	OFN			
U of AAC§45,404AAFC - VankoskyPairie Insect Survey20182023\$20,000\$57,000AAFC - LeesonPairie Meed Survey20182023\$25,000\$753,000AAFC - LeesonPairie Herbicide-Resistant Weed Survey20182023\$3,000\$88,000AAFC - GeddesThe Next Generation of Prairie Herbicide-Resistant Weed Survey20202023\$48,454\$96,890	AAFC – McLaren			2022	\$0	400.0			
AAFC - LeesonPraire Weed Survey20182023\$25,000\$753,000AAFC - LeesonPraire Herbicide-Resistant Weed Survey20182023\$3,000\$88,000AAFC - GeddesThe Next Generation of Prairie Herbicide-Resistant Weed Surveys20202023\$48,445\$96,890	U of A	Management of Root Rot in Peas in Manitoba	2018	2023	\$45,404	\$88,305			
AAFC - Leeson 2018 2023 \$3,000 \$88,000 AAFC - Geddes The Next Generation of Prairie Herbicide-Resistant Weed Surveys 2020 2023 \$48,445 \$96,890	AAFC – Vankosky	Prairie Insect Survey		2023	\$20,000	\$571,000			
AAFC - Geddes The Next Generation of Prairie Herbicide-Resistant Weed Surveys 2020 2023 \$48,445 \$96,890	AAFC – Leeson	Prairie Weed Survey		2023	\$25,000	\$753,100			
	AAFC – Leeson	Prairie Herbicide-Resistant Weed Survey		2023	\$3,000	\$88,000			
AAFC – Turkington Prairie Disease Monitoring Network 2018 2023 \$45,000 \$1,360,000	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			

RESEARCHER		PROJECT		START	END	MPSG FUNDING	TOTAL VALUE	
Reduce the Cost of Pest Control continued								
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 – Chatterton	Optimizing Disease Management Strategies for White Mould and Bacterial Blights of Dry Beans			2018	2023	\$61,951	\$616,904	
AAFC – Chatterton				2018	2023	\$30,679	\$1,636,818	
U of S – Shirtliffe	Pea Root Rot – Re	Pea Root Rot – Resistance Genes, Crop Rotation and Intercropping				\$18,426		
U of M – Tenuta					2022	\$20,639		
AAFC – Chatterton	Root Lesion Nem	tode Survey	2018	2023	\$4,975	\$853,813		
AAFC – McLaren	Strategies for Effe of Soybeans	ective Management of Phytophthora and the	e Root Rot Complex	2018	2023	\$75,506	\$887,919	
LU – Bélanger	Root Diseases – G	ienetic Screening Methods		2018	2023	\$44,657	\$652,776	
U of M – Daayf	Defining Pathoge Through Crop Ro	en-Related Soil Quality Targets for Annual Le tation	gumes to Pursue	2019	2022	\$88,172	\$253,782	
AAFC – Geddes	Integrated Weed	Management to Mitigate Glyphosate-Resist	ant Weeds	2019	2022	\$110,940	\$309,984	
Roquette		Developing the Capacity to Detect and Quantify Aphanomyces Oospores and Disease Severity in Manitoba			2022	\$0	\$36,936	
Roquette		Efficacy and Return on Investment of Foliar Fungicide in Yellow Peas			2022	\$0	\$64,800	
Roquette	Volunteer Soybea	Volunteer Soybean Control in Yellow Pea Production			2022	\$0	\$22,200	
Roquette	Satellite Imagery	 Assisted Sampling for Aphanomyces 		2020	2021	\$0	\$34,496	
AAFC – Geddes	Manipulating We	Manipulating Weed Seed Production Through Phenology-Based Weed Control			2022	\$11,556	\$46,224	
ACC – Singh		Developing a Weather-Based Fungicide Application Decision Support Tool for Managing White Mould in Dry Beans			2023	\$41,850	\$83,700	
		GROW MARKET D	EMAND					
U of G – Duncan						\$136,431		
AAFC – Ramdath	Cholesterol-Lowe	ering Properties of Dry Beans	2018	2023	\$47,196	\$757,680		
U of S – Nickerson						\$103,802		
AAFC – Hou	Pulse Ingredient I	Processing for Improved Flour Quality		2018	2023	\$12,571	\$2,866,150	
AAFC – Balasubramanium	Dry Bean Cooking	g Quality		2018	2023	\$15,942	\$87,444	
		IMPROVE SOIL Q	UALITY					
U of M – Lawley	Cover Crops – Est	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 H	Understanding How Soil Health Affects Corn and Soybean Yield and Quality			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	2022	\$37,827	\$151,308	
PAMI	Analysis of the Carbon Intensity of Legume Crop Production and their Potential for the Future Low Carbon Economy			2022	2022	\$16,200	\$32,400	
*At time of printing.								
AAFC – Agriculture and Agri-Food Canada CMCDC – Canada-Manitoba Crop Diversification Centre		MCGA – Manitoba Canola Growers Association MCVET – Manitoba Crop Variety	OFN – On-Farm Network PAMI – Prairie Agriculture Machinery Institute		U of M – University of Manitoba U of S – University of Saskatchewan			

MCVET – Manitoba Crop Variety

MCA – Manitoba Crop Alliance

MPSG – Manitoba Pulse & Soybean Growers

Evaluation Trials

Machinery Institute

U of A – University of Alberta

U of G – University of Guelph

U of L – University of Lethbridge

WADO – Westman Agricultural

Diversification Organization

Diversification Centre

LU – Laval University

Foundation

IHARF – Indian Head Agricultural Research