

# 2016 APPROVED FUNDING FOR RESEARCH

RESEARCH LEAD	PROJECT TITLE	START DATE	END DATE	MPSG TOTAL FUNDING	TOTAL VALUE
<b>ON-FARM NETWORK</b>					
TAC	Effects of Seed Applied Inoculant on Soybean Yield – On-Farm Trials	2016	2017	\$84,000	\$84,000
TAC	Effects of Soybean Seed Treatment on Yield – On-Farm Trials	2016	2016	\$37,275	\$37,275
TAC	Comparing Accuracy of Yield Data between Calibrated Yield Monitor and Scale	2016	2016	\$7,350	\$7,350
Antara	Product Evaluation for Prevention of Iron Deficiency Chlorosis	2016	2016	–	\$13,000
Agri Skills	Soybean Special Input Trial	2015	2016	\$33,600	\$33,600
Agri Skills	Pinto Fungicide Trial	2015	2016	\$33,600	\$33,600
Agri Skills	Suitability of Pinto and Navy Bean Varieties for Direct Harvest	2015	2016	\$115,000	\$115,000
Agri Skills	Pea Canola Intercropping	2015	2016	\$46,200	\$46,200
TAC	Effects of Lower Seeding Rates on Yields – Western Manitoba	2015	2017	\$75,600	\$75,600
U of M – Lawley	Soybean Residue Management	2014	2017	\$68,616	\$255,850
TAC	Evaluating Effect of Foliar Fungicides on Soybean Yield and Maturity	2014	2016	\$177,250	\$117,250
<b>SOYBEAN – Agronomy</b>					
Linnaeus – Eynck	Relay-Cropping of Winter Camelina and Short-Season Soybeans	2016	2016	\$7,000	\$10,000
Manitoba Agriculture – Gaultier	Manitoba and General Herbicide-Resistant Weed Surveys	2016	2016	\$8,078	\$121,862
U of M – Gulden	Defining and Refining the End of the Critical Period of Weed Control in Soybean for Manitoba	2016	2017	\$57,500	\$115,000
U of M – Oresnik	Determining Efficacy of qPCR to Determine <i>Bradyrhizobium japonicum</i> Populations in Fields	2016	2017	\$26,443	\$52,885
MPSG	Soybean Inoculant Trial	2016	2016	\$8,960	\$8,960
MPSG	Soybean Hail Damage Regrowth Assessment	2015	2017	\$44,710	\$132,030
MPSG	Late Planting of Early Maturing Soybeans	2015	2017	\$25,719	\$51,438
U of M – Flaten	Phosphorus Fertilization Beneficial Management Practices in Soybeans in Manitoba	2014	2016	\$64,653	\$193,959
U of M – Entz	Research and Technical Support for On-Farm Transition to Organic Soybean Production	2014	2016	\$20,000	\$180,300
U of M – Tenuta	Soybeans for Improved Soil Health	2014	2017	\$322,348	\$322,348
AAFC – Mohr	Effect of Soil Temperature at Different Planting Dates and Residue Management on Soybean	2014	2017	\$49,600	\$148,800
AAFC – Mohr	Enhancing Manitoba Soybean Yield and Quality Under Sub-Optimal Conditions	2014	2017	\$136,074	\$176,698
AAFC – Mohr	Agronomic Management of Soybean in Manitoba	2013	2016	\$163,900	\$163,900
U of M – Gulden	Economic and Biological Implications of Volunteer Canola in Soybean	2013	2017	\$86,667	\$140,000
AAFC – Larney	Comparison of Dry Bean and Soybean for Agronomic Traits, Inputs, Diseases and Nitrogen-Fixing Benefits to Following Crops, Water Use and Harvest Losses	2013	2017	\$15,000	\$59,087
<b>SOYBEAN – Pathology &amp; Variety Improvement</b>					
BU – Cassone	The Most Comprehensive Survey of Foliar Diseases in Manitoba Soybean	2016	2018	\$112,509	\$112,509
U of M – Daayf	Characterizing the Fusarium Species that Affect Major Crops in Manitoba	2016	2017	\$47,400	\$174,800
U of M – Stasolla	Enhancing Water Stress Tolerance in Soybean Through Phytoalbumin Manipulations	2016	2018	\$123,000	\$173,000
AAFC – Hou	Evaluation of Soybean Breeding Lines for Iron Deficiency Chlorosis (IDC) Resistance in Greenhouse	2015	2016	\$52,000	\$52,000
AAFC – Hou	Soybean Protein Content Variation Among Genotypes Grown in Manitoba and Ottawa	2015	2017	\$144,000	\$144,000
AAFC – Savitch	Supporting Western and Northern Expansion of Soybean and Corn in Canada	2015	2016	\$42,525	\$147,050
U of L – Belzile	SoyaGen: Improving Yield and Disease Resistance in Short-Season Soybean	2015	2018	\$160,000	\$375,000
AAFC – Morrison	Variation in Soybean Seed Quality Parameters: The Manitoba Advantage	2015	2016	\$62,400	\$134,400
U of M – Daayf	Alternatives to Reduce Root Rots in Soybean and Other Pulses	2014	2017	\$105,000	\$240,000
AAFC – Cober	Short-Season Soybean Improvement and Very Short-Season Herbicide Tolerant Soybean Development	2013	2017	\$90,000	\$748,535
AAFC – McLaren	Prevalence, Incidence & Virulence of Phytophthora Root Rot of Soybean in Manitoba Soybean Fields	2013	2017	\$300,000	\$683,908

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<b>DRY BEAN – Agronomy</b>					
U of M – Oresnik	Development of an Effective Inoculant for Dry Beans	2016	2020	\$200,000	\$440,000
MCVET	Manitoba Crop Variety Evaluation Trials for Dry Beans	2016	2016	\$34,447	\$34,447
U of M – Gulden	Optimizing Plant Spatial Arrangement and Weed Management for Dry Bean Production	2015	2019	\$236,325	\$236,325
U of M – Tenuta	Identification and Significance of Plant Parasitic Nematodes of Pulse Crops and Soybean	2013	2017	\$165,776	\$770,158
U of M – Ayele	Mitigating the Deleterious Effects of Above Normal Soil Moisture on the Productivity of Pulse Crops Through Seed Treatment	2014	2016	\$80,000	\$80,000
AAFC – Marsolais	Developing Herbicide Tolerance in Dry Beans	2013	2017	\$50,000	\$368,550
U of G – Gillard	Dry Bean Agronomy and Pest Management Studies	2013	2017	\$50,000	\$969,915
<b>DRY BEAN – Pathology &amp; Variety Improvement</b>					
CGC – Wang	Effect of Cultivar, Growing Location and Year on Dietary Fiber Contents, Trypsin Inhibitor Activity and Oligosaccharides in Manitoba-Grown Dry Beans	2016	2017	\$43,200	\$43,200
AAFC – Hou	Development of Dry Bean Cultivars/Germplasm with High Yield, Disease Resistance and Marketable Seed Quality for Production in Manitoba	2013	2017	\$325,000	\$695,129
AAFC – Conner	Identify Advanced Dry Bean Breeding Lines or Coop Entries with Resistance to Common Bacterial Blight, Anthracnose and White Mould. Develop New Methods for Controlling Halo Blight in Dry Beans	2013	2017	\$75,000	\$203,993
AAFC – Conner	Evaluation of Root Rot Resistance in Dry Bean Cultivars	2013	2017	\$60,000	\$60,000
AAFC – McLaren	Root Rot Pathogens of Dry Bean; Identification, Distribution and Risk Assessment in Manitoba	2013	2017	\$45,000	\$366,947
<b>FIELD PEA</b>					
MPSG	Evaluation of Seeding Rate and Fungicide Use in Field Pea	2016	2016	\$14,150	\$14,150
CDC	Variety Release Program: Variety Development of Field Peas and Faba Beans	2016	2016	\$22,000	\$22,000
AAFC – Conner	Evaluation of Root Rot Resistance in Field Pea Cultivars	2013	2017	\$10,000	\$40,000
AAFC – McLaren	Root Rot Pathogens of Field Pea; Identification, Distribution and Risk Assessment in Manitoba	2013	2017	\$45,000	\$153,100
<b>NUTRITION, UTILIZATION &amp; VALUE-ADDED</b>					
Cigi – Frohlich	Influence of Pre-Milling Thermal Treatments of Field Peas, Dry Beans and Faba Beans on the Flavour and End Product Quality of Baked Products	2016	2016	\$53,458	\$53,458
LM Food Tech	Effect of Genotype and Environment on Pulse Flour Quality and Baking Performance	2016	2017	\$25,000	\$425,001
OBG	Reduction of Blood Glucose with Beans: Defining the Minimum Dose	2016	2016	\$16,000	\$149,306
CCARM – Zahradka	Effect of Processing on Health Benefits Associated with Bean Consumption	2016	2017	\$67,907	\$123,032
CCARM – Zahradka	Cardiovascular Health Benefits of Soybean Crops	2016	2016	\$18,500	\$73,000
MSVU – Luhovy	The Effect of Whole Cooked Beans & Peas on Satiation, Satiety and Food Intake in Children	2015	2016	\$15,800	\$15,800
U of M – Aluko	Extraction and Functional Characterization of Cholesterol-Binding Indigestible Proteins from Manitoba-Grown Pulses	2015	2017	\$91,300	\$91,300
FDC – Appah	Developing Pulse-Based Shelf Stable Chili Using Retort Processing	2015	2016	\$29,000	\$32,000
U of W – Holloway	Joining the Green Revolution: Value-Added Fermentations of Peas and Beans	2015	2017	\$32,860	\$99,360
<b>2016 NEW FUNDING APPROVED</b>				\$1,014,177	\$2,253,788
<b>NEW (2016) + ON-GOING FUNDING COMMITMENTS</b>				\$4,759,699	\$11,241,365
<b>RESEARCH AGRONOMIST – TBA</b>				\$210,000	
<b>PROGRAM DELIVERY BUDGET</b>				\$216,000	
<b>EXTENSION &amp; PRODUCTION BUDGET</b>				\$110,500	
<b>TOTAL RESEARCH &amp; PRODUCTION BUDGET FOR 2016</b>				\$1,550,677	

AAFC – Agriculture and Agri-Food Canada  
 Antara – Antara Agronomic Services  
 BU – Brandon University  
 CCARM – Canadian Centre for Agri-Food Research in Health and Medicine

CDC – Saskatoon Crop Development Centre  
 CFCRA – Canadian Field Crops Research Alliance  
 CGC – Canadian Grain Commission  
 Cigi – Canadian International Grains Institute

FDC – Food Development Centre  
 Linnaeus – Linnaeus Plant Sciences  
 MCVET – Manitoba Crop Variety Evaluation Trials  
 MPSG – Manitoba Pulse & Soybean Growers

MSTVU – Mount Saint Vincent University  
 OBG – Ontario Bean Growers  
 TAC – Tone Ag Consulting  
 U of G – University of Guelph

U of L – University of Laval  
 U of M – University of Manitoba  
 U of W – University of Winnipeg