

# 2015 ICDC Research Program



Crop	Projects	Description	Funding Source
<b>Barley</b>	Saskatchewan Variety Performance Group Barley Regional Trials	Evaluate the adaptability of current and newly registered barley varieties (2-row & 6-row) under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual and provides producers with criteria with which to select the most appropriate variety for irrigated production conditions on the prairies.	ICDC, CDC, U of S, SVPG
<b>Canola</b>	Canola Performance Trial	Evaluate the adaptability of current and newly registered herbicide tolerant canola varieties under standard irrigation management and appropriate herbicides for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual published by ICDC.	ICDC, CCC
<b>Canola</b>	Evaluation of Straight Cut Canola under Irrigation	Evaluate the value of straight cutting canola versus swathing to eliminate an operation from the field.	ICDC
<b>Canola</b>	Fertigation Application Timing on Irrigated Canola	Demonstrate the proper timing for liquid nitrogen (28-0-0) application injected into irrigation water to improve yield of an irrigated canola crop.	ADOPT
<b>Canola</b>	Fertigation Application Timing on Irrigated Canola	Demonstrate the proper timing for liquid nitrogen (28-0-0) application injected into irrigation water to improve yield of an irrigated canola crop.	ICDC
<b>Canola</b>	ICDC Irrigated Canola Variety Trial	To evaluate the adaptability of current and newly registered canola varieties under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual and provides producers with criteria with which to select the most appropriate variety for irrigated productions conditions on the prairies.	ICDC
<b>Canola</b>	Response to Foliar Applied Boron on Canola during Early Flowering	Evaluate the yield benefit of applying boron on canola during the early flowering stage under irrigation.	ADOPT
<b>Canola</b>	Response to Sulphur Fertilization of Canola Under Irrigation in a Sandy Soil	Evaluate the effect of sulphur fertilization of canola on sandy irrigated soils.	ADOPT
<b>Canola</b>	WCCRRC XNL1, XNL2, XNL3 Trials	Evaluate the adaptability of new canola varieties under standard irrigation management for prairie growing conditions. Information developed is used to support the registration of new canola varieties suited to irrigated conditions on the prairies and to update the annual Crop Varieties for Irrigation manual published by ICDC.	ICDC, WCCRRC

Crop	Projects	Description	Funding Source
<b>Corn</b>	Alberta Corn Committee (ACC) Silage and Grain Hybrid Performance Trials	Evaluate the silage and grain yield potential of selected corn varieties under standard irrigation management for prairie growing conditions. The information developed is posted on the Alberta Corn Committee website and provides producers with criteria with which to select the appropriate variety for irrigated production conditions on the prairies.	ICDC, ADF (AAFC-Lethbridge)
<b>Corn</b>	Corn Variety Demonstration for Grain Production	Commonly grown and locally available corn hybrids are selected to evaluate the most adapted corn hybrids for grain under irrigation production. There are two trials: irrigated and dry land.	ADOPT
<b>Corn</b>	Corn Variety Demonstration for Silage and Grazing	Commonly grown and locally available corn hybrids are selected to evaluate and identify the most adapted corn hybrids for silage and grazing under irrigation production. There are two trials: irrigated and dry land.	ADOPT
<b>Dry Bean</b>	CDC Dry Bean and Faba Bean Nursery	ICDC assumes responsibility for the maintenance of nurseries established by CDC at CSIDC and Knapik.	CDC and ICDC
<b>Dry Bean</b>	Dry Bean Regional Trials		ICDC/SACGC
<b>Dry Bean</b>	Irrigated Dry Bean Wide & Narrow Row Regional Trial (IBVT)	To evaluate the adaptability of current and newly registered dry bean varieties using wide row production under standard irrigation management for prairie growing conditions. Information developed is used to update the Crop Varieties for Irrigation manual published annually by ICDC.	Partial Agriculture Development Fund, ICDC
<b>Dry Bean</b>	Short Season Wide Row Irrigated Crop	To evaluate the adaptability of new dry bean varieties using wide row production under standard irrigation management for prairie growing conditions. Information developed is used to support the registration of new dry bean varieties suited to irrigated conditions on the prairies and to update the Crop Varieties for Irrigation manual published annually by ICDC.	CDC
<b>Faba Bean</b>	Evaluating Inoculant Options for Faba beans	Determine the best inoculant option for faba bean grown in various soil/climatic zones of Saskatchewan.	SPG
<b>Faba Bean</b>	Faba Bean Fungicide Product x Timing Study	Investigate the merits of foliar fungicide applications on faba bean in western Canada as a function of stand density and environment.	SPG
<b>Faba Bean</b>	Faba Bean Seeding Rate	Provide growers and agrologists with current and unbiased seeding rate recommendations for faba bean production on the prairies.	ICDC/SPG
<b>Faba Bean &amp; Dry Bean</b>	CDC Faba Bean and Dry Bean Trials	IS this the same as line 43?	

Crop	Projects	Description	Funding Source
<b>Flax</b>	Regional Irrigated Flax Variety Trial	Evaluate the adaptability of current and newly registered flax varieties under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual published by ICDC and provides producers with criteria with which to select the most appropriate variety for irrigated production conditions on the prairies.	ICDC, CDC, U of S, SVPG
<b>Flax/ Lentil &amp; Chickpea</b>	Chickpea-Flax & Lentil-Flax Intercropping	This demonstration will compare desi and kabuli chickpea and flax as a monocrop to chickpea and flax as an intercrop.	ADOPT
<b>Forage</b>	AC Saltlander Green Wheatgrass Saline Tolerance Study	Determine the seeding rate effects under differing salinity levels, determine the effects of time of seeding, compare direct vs. conventional seeding, evaluate flooding tolerance, and evaluate nitrogen fertilization of AC Saltlander.	ICDC/ADF
<b>Forage</b>	Copper and Zinc Fertilization of Alfalfa for Forage Production	Determine the forage yield response of an alfalfa stand to fertilization with copper and zinc when PK and S are also fertilized.	ADOPT
<b>Forage</b>	Forage Salinity Tolerance Demonstration	To demonstrate the performance of new and existing forage species/varieties, with different salinity tolerances, under varying soil salinity levels.	ICDC, AAFC, MoA
<b>Forage</b>	Hybrid brome		ICDC
<b>Forage</b>	Perennial Forage Grass and Legume Species Demonstration	A demonstration of perennial forage grasses and legumes.	
<b>Forage</b>	Phosphorus Potassium and Zinc Demonstration at Lodge Creek	Demonstrate potential for alfalfa fertilization with gravity irrigated alfalfa fields in Southwest Saskatchewan.	ADOPT
<b>Fruit</b>	Demonstration of Cantaloupe and Watermelon Production in Saskatchewan	Demonstrate the potential to grow watermelon and cantaloupe commercially in high tunnels in Saskatchewan. Provide opportunities for producers and stakeholders to see the crops.	ADOPT
<b>Fruit</b>	Treatments to Improve Plant Health and Productivity in a Mature Saskatoon, Haskap, and Sour Cherry Orchard Located in High pH Soil	Fertilization of existing CSIDC fruit nursery.	ADOPT
<b>High Value</b>	Demonstration of Potential Irrigated Crops	To demonstrate and evaluate varieties of hemp, quinoa and safflower under both irrigation and dry land conditions.	ADOPT
<b>Oat</b>	Saskatchewan Variety Performance Group Oat Regional Trial	Evaluate the adaptability of current and newly registered oat varieties (feed and forage) under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual published by ICDC.	ICDC, CDC, U of S, SVPG

Crop	Projects	Description	Funding Source
<b>Pea</b>	Pea Regional Variety Trial	Evaluate the adaptability of current and newly registered pea varieties under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual that ICDC publishes.	CDC and ICDC, SACGC
<b>Soil</b>	Copper fertility on low soil test production fields under irrigation	Evaluate the effect of soil-applied and foliar-applied copper fertilization on a field identified as low in inherent copper availability.	ADOPT
<b>Soil</b>	Understanding soil variability in availability of nutrients for irrigated soils	Evaluation of variable rate fertilization.	ADOPT
<b>Soybean</b>	Crop cultivars for irrigation in Saskatchewan	Investigate the optimal dates of planting irrigated soybean, with and without seed treatment. Investigate optimal seeding rates for solid seeded and wide row soybean. Investigate various inoculation strategies with soybean.	Agriculture Development Fund, WGRF, ICDC
<b>Soybean</b>	Developing Nitrogen Management Recommendations for Soybean Production in Saskatchewan	Determine the best management practices to ensure adequate N supply and maximum economic yields for soybean production in Saskatchewan to help growers grow this crop in the most economically, agronomically and environmentally sustainable manner possible.	ICDC/SPG
<b>Soybean</b>	Developing Phosphorus Management Recommendations for Soybean Production in Saskatchewan	Improve P management recommendations for soybeans in Saskatchewan by investigating crop response to monoammonium phosphate rates and placement methods.	ICDC/SPG
<b>Soybean</b>	MCVET Soybean Regional Trial/Western Canada Soybean Variety Trial - Irrigated vs Dry Land	To evaluate the adaptability of new soybean varieties under standard irrigation management for prairie growing conditions. Information developed is used to support the registration of new soybean varieties suited to irrigated conditions on the prairies, and to update the annual Crop Varieties for Irrigation manual. There are two trials: irrigated and dry land.	Manitoba Crop Variety Evaluation Team
<b>Specialty</b>	Burger & Fries Farm	The farm is designed to increase agricultural awareness within the community and among youth. It will be an interpretive and educational tool for teaching school children about where food comes from and the important role that modern agriculture and technology play in food production. All planned educational activities and tours have been connected to key outcomes and indicators from the Saskatchewan Curriculum for grades 3 and 4.	Saskatchewan Ministry of Agriculture

Crop	Projects	Description	Funding Source
<b>Specialty</b>	Crop Diagnostic School	SMA (in partnership with Saskatchewan Crop Insurance Corporation, SaskCanola, SaskFlax, Saskatchewan Pulse Growers and Western Grains Research Foundation) conducts an annual diagnostic school to provide hands-on training to agronomists in diagnostic skills. The areas of focus in 2015 are: insect scouting and identification, disease scouting and identification, weed identification, fertility/soils/nodulation/salinity, herbicide injury symptoms, and applied technology and imagery/new technologies.	Saskatchewan Ministry of Agriculture
<b>Vegetable</b>	Demonstration of Ethnic Vegetable Production in Saskatchewan	Demonstrate the potential to grow ethnic vegetables commercially in Saskatchewan. Provide opportunities for producers and stakeholders to see the crops. Crops will include regular and baby pak choi, Michihili, Napa and edible chrysanthemum, daikon radish and bitter melon.	ADOPT
<b>Wheat</b>	Demonstration of Plant Growth Regulator Application in Irrigated Wheat Production	Evaluate Maniuplator plant growth regulator on hard red spring wheat and durum; consider time of application by nitrogen fertilizer rates. There are two trials: irrigation and intensive irrigation.	ADOPT
<b>Wheat</b>	ICDC Irrigated Wheat Variety Trial	To evaluate the adaptability of current and newly registered wheat varieties (CWRS, CWSWS, CWES, CWAD, CPSR) under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual and provides producers with criteria with which to select the most appropriate variety for irrigated production conditions on the prairies.	ICDC
<b>Wheat</b>	Saskatchewan Variety Performance Group Durum Wheat Regional Trial	Evaluate the adaptability of current and newly registered CWAD wheat varieties under standard irrigation management for prairie growing conditions. Information developed is used in updating the annual Crop Varieties for Irrigation manual published by ICDC.	ICDC, AAFC, SVPG
<b>Wheat</b>	Saskatchewan Variety Performance Group Hex 1 Wheat Regional Trial	Evaluate the adaptability of current and newly registered CWRS wheat varieties under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual published by ICDC.	AAFC, ICDC, SVPG
<b>Wheat</b>	Saskatchewan Variety Performance Group Hex 2 Wheat Regional Trial	Evaluate the adaptability of current and newly registered CPSR, CWHWS, CWES, CWGP and CWHWS wheat varieties under standard irrigation management for prairie growing conditions. Information developed is used to update the annual Crop Varieties for Irrigation manual published by ICDC.	AAFC, ICDC, SVPG

Crop	Projects	Description	Funding Source
<b>Wheat</b>	Soft White Spring Wheat Coop Trial	Evaluate the adaptability of new soft white wheat germplasm under standard irrigation management for prairie growing conditions. Information developed is used to support the registration of new soft white wheat varieties suited to irrigated conditions on the prairies and to update the annual Crop Varieties for Irrigation manual published by ICDC.	ICDC, CDC, U of S
<b>Wheat</b>	Winter Wheat Variety Evaluation for Irrigation	To evaluate the adaptability of current and newly registered winter wheat and fall hybrid rye varieties. There are two trials: irrigated and dry land.	ADOPT