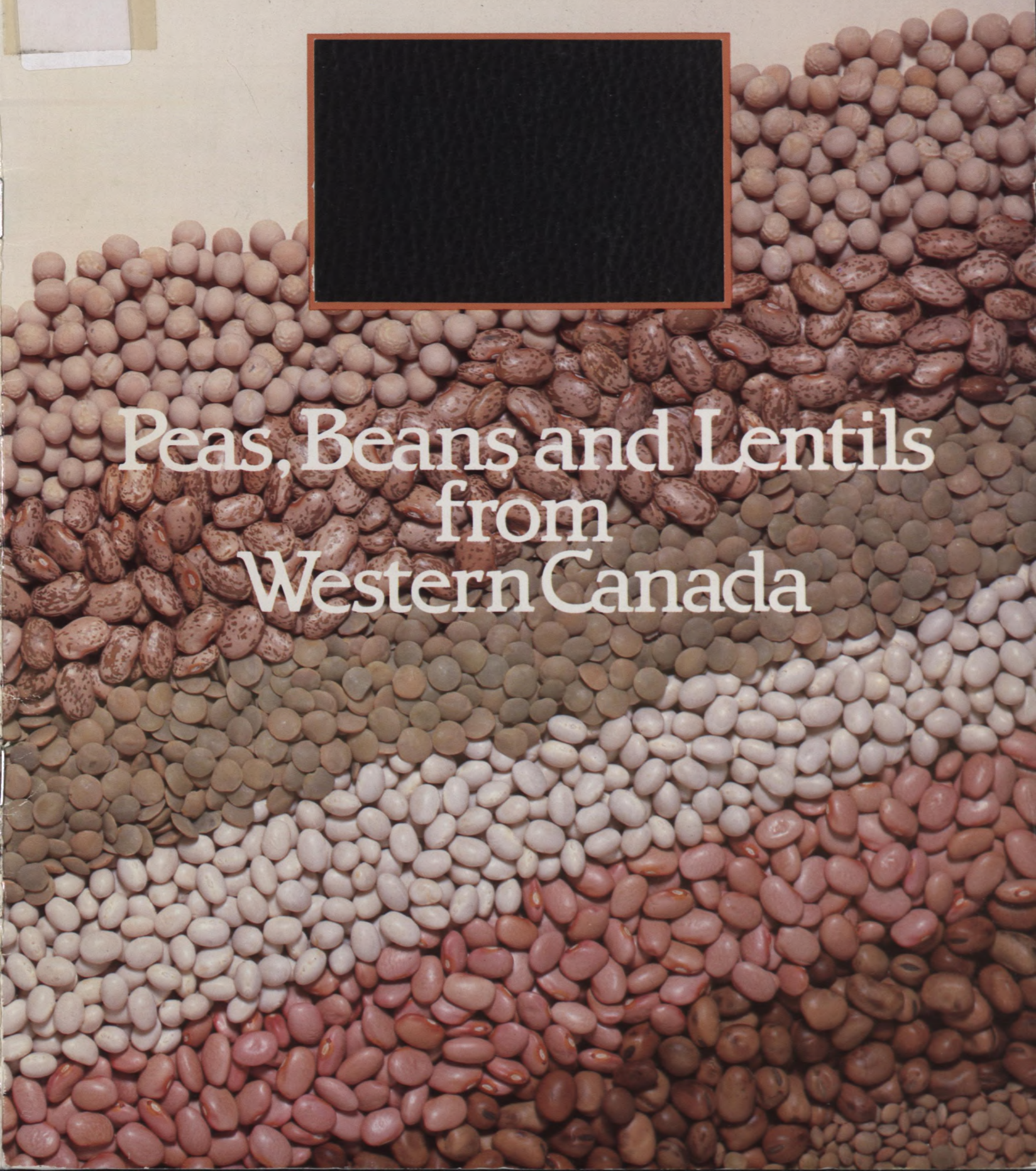


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# Peas, Beans and Lentils from Western Canada



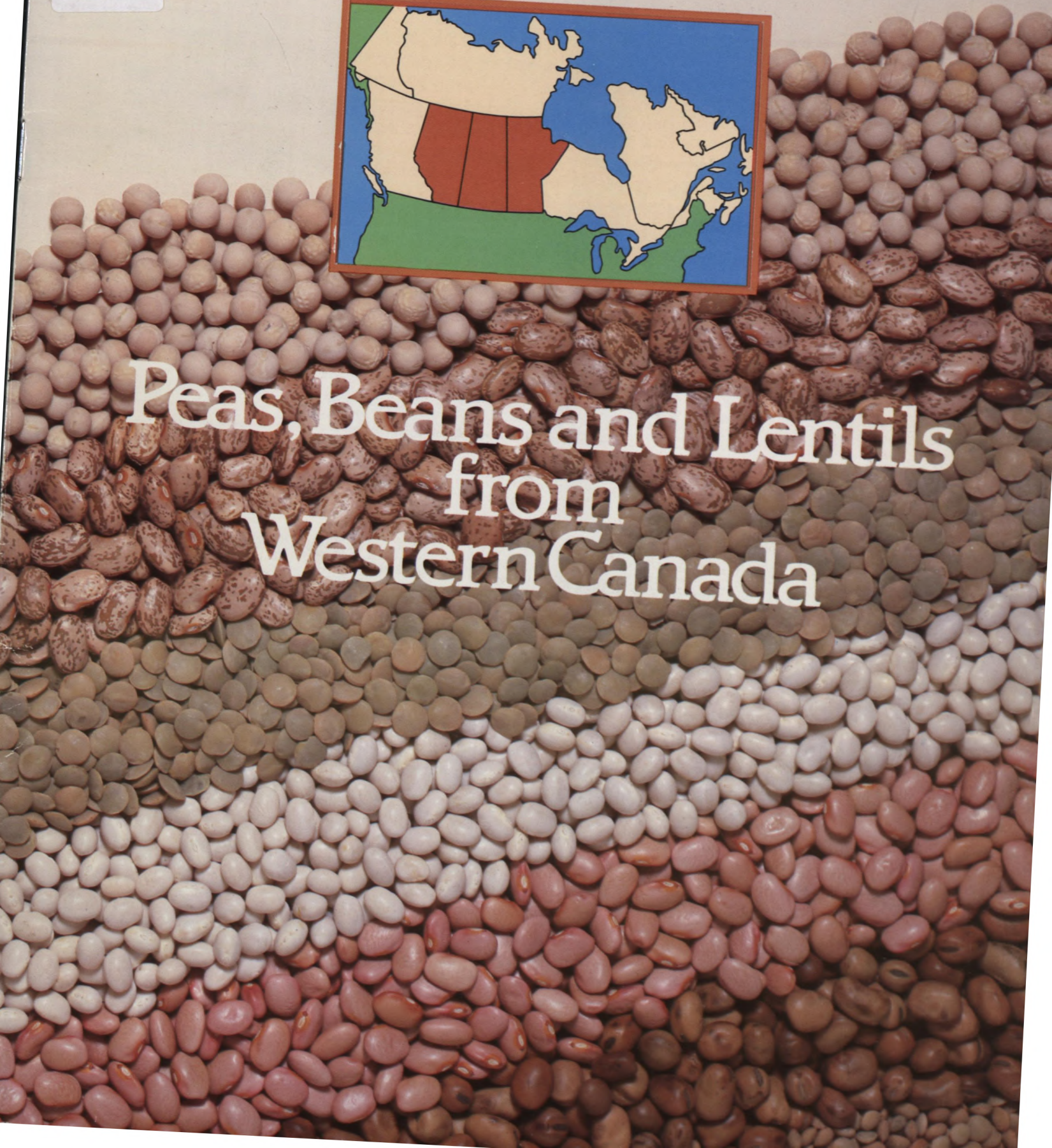


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# Peas, Beans and Lentils from Western Canada





# Peas, Beans and Lentils

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Min. des Affaires extérieures

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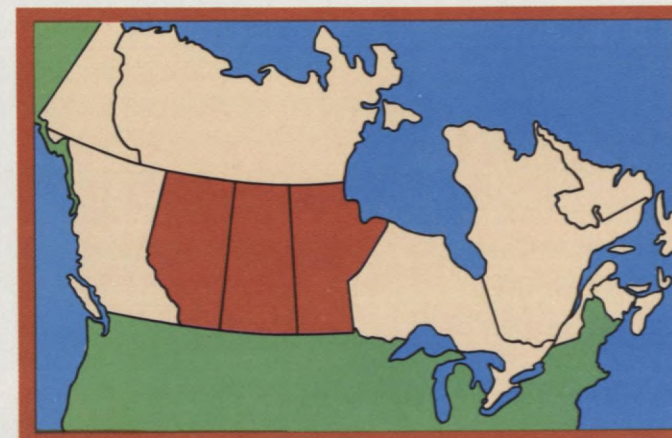
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While Western Canada is known internationally for grain production, it is now also being recognized as an important source of high quality pulse crops. From 33,600 hectares in 1970, production of field peas, lentils, fababeans and dry beans soared to present levels in excess of 250,000 hectares.

Aside from increasing world demand, much of this growth can be attributed to the Western Canadian researchers, growers, processors, exporters and many others who work together to maintain strict pulse production and processing standards. It was this team effort that led to the formation of the Western Canada Pulse Growers' Association in 1983. Today, the Association helps represent the ongoing needs and concerns of western pulse crop producers.



Offering the highest quality standards, the Western Canadian pulse industry has also become a major international supplier. Most of the peas, beans and lentils produced in Manitoba, Saskatchewan and Alberta are sold for export.



Favourable soils and climate allow the three prairie provinces to grow and process a wide range of pulses under strict quality standards. The private grain trade has been largely instrumental in the growth of the pulse industry, through contract production and aggressive international marketing.



# A Productive Growing Environment

With climates generally ranging from warm and semi-arid to cooler with higher moisture, Western Canada's three prairie provinces provide a productive environment, highly conducive to pulse crop growth.

The drought tolerant characteristics of lentil plants make them extremely well adapted to the major producing areas of Saskatchewan as well as the drier areas of Alberta and southern Manitoba. Outside these drier zones, peas thrive in the moist, rich and fertile loam soils. Field beans are grown in the more southerly, higher heat unit areas of Alberta and Manitoba while fababeans are produced in the greater rainfall areas of all three provinces.

*Beans favour the hotter areas of southern Manitoba and southern Alberta (under irrigation).*



*A moisture loving crop, fababeans are grown in the higher rainfall areas of all three provinces.*



Commonly grown in rotation with wheat, pulse crops contribute to increased soil nitrogen levels.

Pulse crop production also offers economical advantages to wheat growers since most of the crops can be planted and harvested using existing equipment.

Favourable growing conditions, combined with advanced production practices, ensure the consistent high quality of Western Canadian pulse crops.

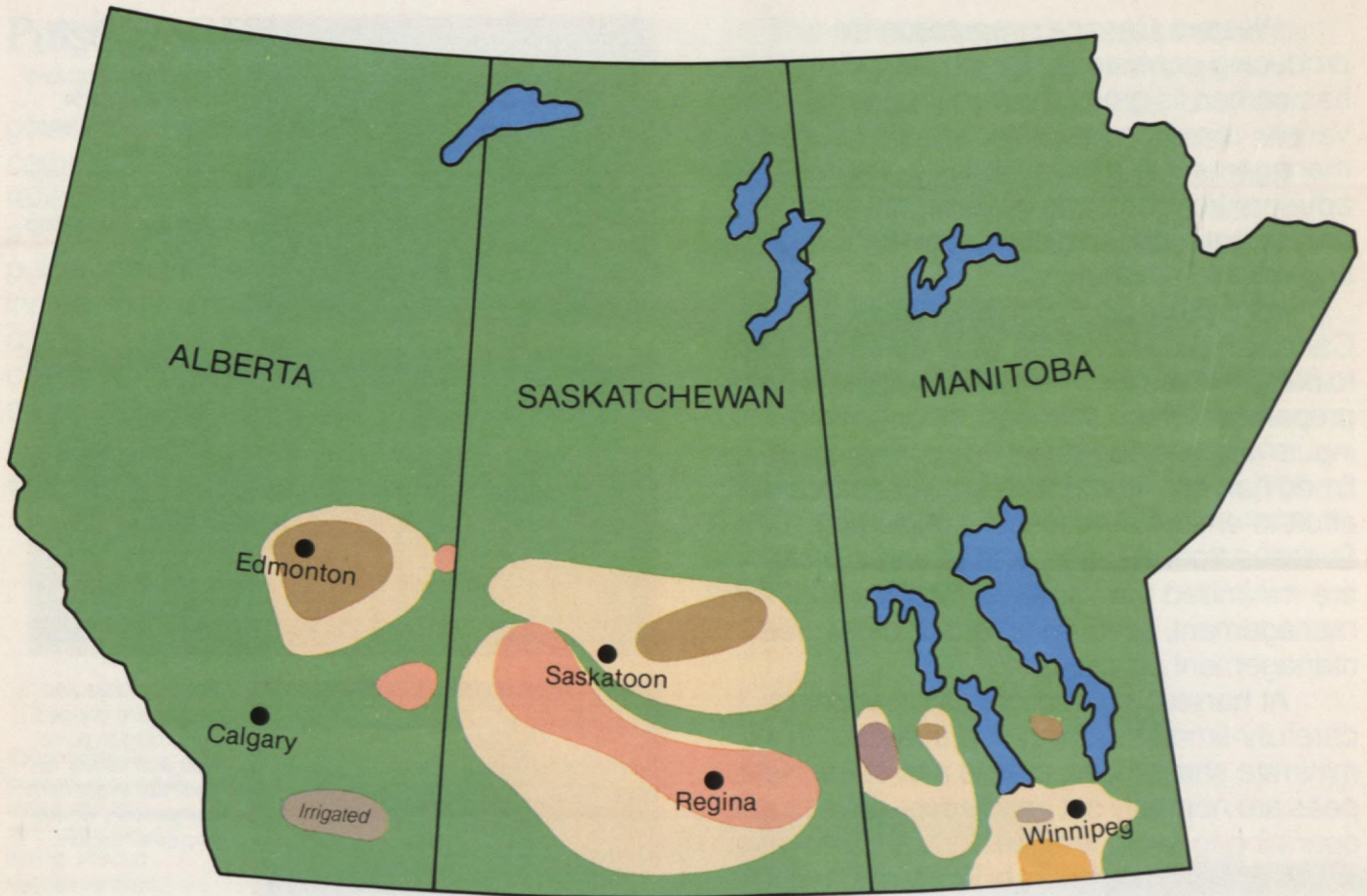


*Peas are produced in the higher moisture areas in all three provinces.*



*The major lentil growing areas are in the drier regions of Saskatchewan, Alberta and Manitoba.*





- Lentil production
- Pea and lentil production
- Pea and fababean production
- Pea, lentil and field bean production
- Pea, lentil, field bean and fababean production
- Areas with scattered pulse crop production

## Pulse Crop Types

**Peas:** The high protein content of peas makes them a highly nutritious food source. Most of the Western Canadian yellow split peas are exported to Europe while whole yellow peas are sold in the Caribbean, South America and more recently, India.

**Lentils:** Most commonly used in soups and stews, the tasty and highly nutritious lentil also has proven its popularity in such diverse items as tacos and salads. High quality regular Chilean, Laird and Eston lentils are in strong demand throughout Europe, South America and Asia.

**Beans:** With widespread consumption of white pea beans and kidney beans in the U.K. and North America; small reds, pintos

and black beans in South and Central America; plus many other favourites like pink beans and great northern—it's easy to see why edible beans have become an important pulse crop on the prairies.

**Fababeans:** Of all pulses, fababeans have the highest levels of protein, thiamine and riboflavin. Popular in many countries, they are an important source of nutrition for developing nations. Western Canada produces whole and split fababeans for export markets.



# Quality Pulse Production you can count on

Western Canada's reputation for producing consistent, high quality pulses has earned its growers worldwide recognition. Varietal research and selection, sound crop management and the availability of agronomic advisors from both the government and private grain companies ensure high yields and reliable production.

As professional crop managers, Western Canadian growers use a planned approach to pulse production. From soil samples, careful preparation of the seedbed, calculation of inputs and seeding rates, through to a well-timed harvest—the prairie grower spares no effort to ensure a successful pulse crop. Stresses from disease, weeds and insects are minimized through crop rotation, field management, seed treatment or other crop management practices.

At harvest, most pulse crops undergo carefully-timed swathing and threshing to minimize shatter loss, cracks and splits. Field peas are normally cut and threshed in a single operation to avoid windrow loss and damage.

Increasing numbers of Western Canadian farmers are growing pulses. In addition to the suitability of these crops as a break for wheat rotations, many growers establish favourable contractual agreements with one of the large or smaller grain companies. Due to their extensive worldwide marketing expertise, these companies have become a dependable source of income for the growers, thus ensuring a constant and reliable pulse supply for export.

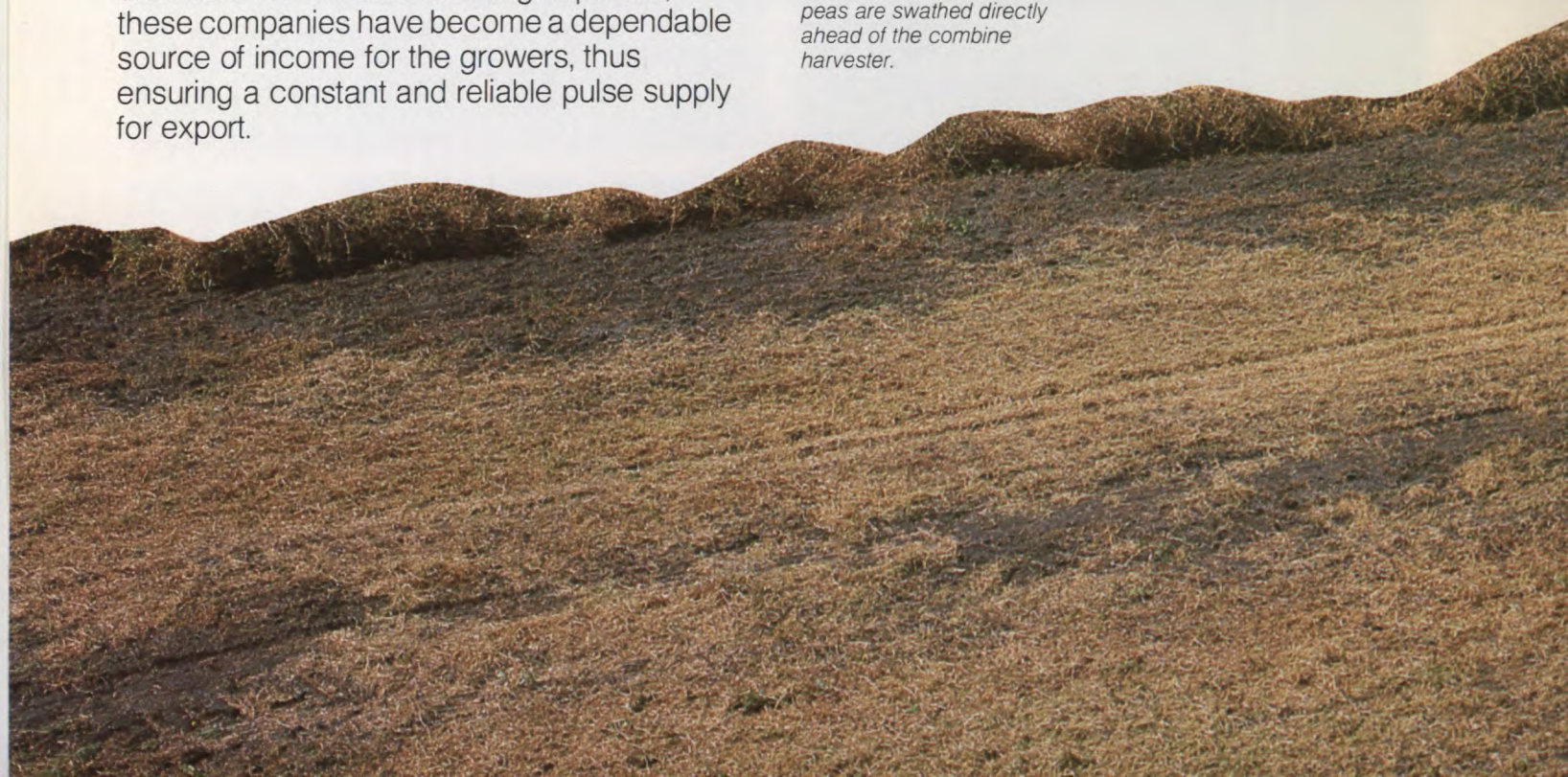


*Care in preparing the seedbed is essential, particularly for lentils which require a firm, level soil surface to ensure an accurate seed depth and facilitate low cutting at harvest.*



*Seeding rates and depths are gauged according to pulse type and variety to minimize stress from competition, weeds and other factors.*

*Depending on the crop, pulses may be swathed, windrowed or directly harvested. Here, yellow peas are swathed directly ahead of the combine harvester.*





## Pulse Crop Research

Agricultural faculties of prairie universities, government research stations and private seed companies are engaged in ongoing pulse crop research. This large investment represents a strong Western Canadian commitment to pulse crop excellence and is reflected in an increasing number of high yielding, high quality crops suited to local soil and weather conditions. These varieties have also been developed with an eye to disease, weed and insect resistance, drought tolerance, fertility, storage, palatability and other factors.

The various research bodies frequently work together and regularly exchange data. As well, growers provide valuable, and often practical information. In addition to new and better products, the combined efforts result in constantly improved agronomic practices, production and processing techniques.

## High Grading Standards

Exacting grade standards for colour, size, condition and other factors are set by the Canadian Grain Commission and applied uniformly in all pulse crop areas. These high grading standards are met through the most advanced crop management practices, from seeding to harvest.

*Crop moisture content is carefully monitored to determine harvest timing. Various special settings and speeds of the combine harvester are adopted depending on pulse crop type.*





# Grading, Processing and Transportation

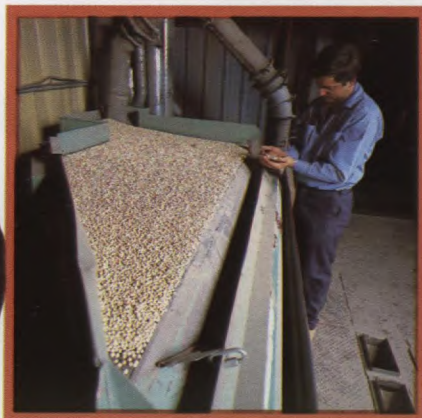
After harvest, pulse crops are delivered to small local or large international private grain companies or farmer-owned cooperatives for processing. All of these companies comply with strict grading standards, set down and maintained by the Canadian Grain Commission. For example, Canada No. 1 lentils must contain no more than 2/10 of one percent foreign material.

Western Canada's international reputation for grading excellence and consistency is among the highest in the world. To meet the quality, quantity and delivery requirements of export markets, the grain companies continually upgrade their systems. Maintaining this high level of quality requires special equipment and knowledgeable staff.

To ensure the fragile crop is processed with minimal damage it is run through a number of operations, depending on the cleaning requirements of the crop or individual lot:

- fanning and sieving mills remove foreign material such as pods, broken kernels and weed seeds
- indent machine eliminates seeds which are longer than the pulse seed
- de-stoners remove dirt balls and small stones
- gravity tables remove anything missed by other machines, segregating by weight rather than size of the seed

*Pulse crops are meticulously processed to remove foreign material, broken and undersized seeds. Quality is ensured by strict government grading standards.*



*Each bag is probed to remove samples for grading.*

*Samples are inspected for colour, size, damage, foreign material and other quality factors.*







For consistent, accurate weight the clean seed is bagged using government inspected, automatic bagging scales. Each lot is inspected to ensure grade quality and purity meet Canadian government standards before an official grade certificate is issued. It is then ready for shipment.

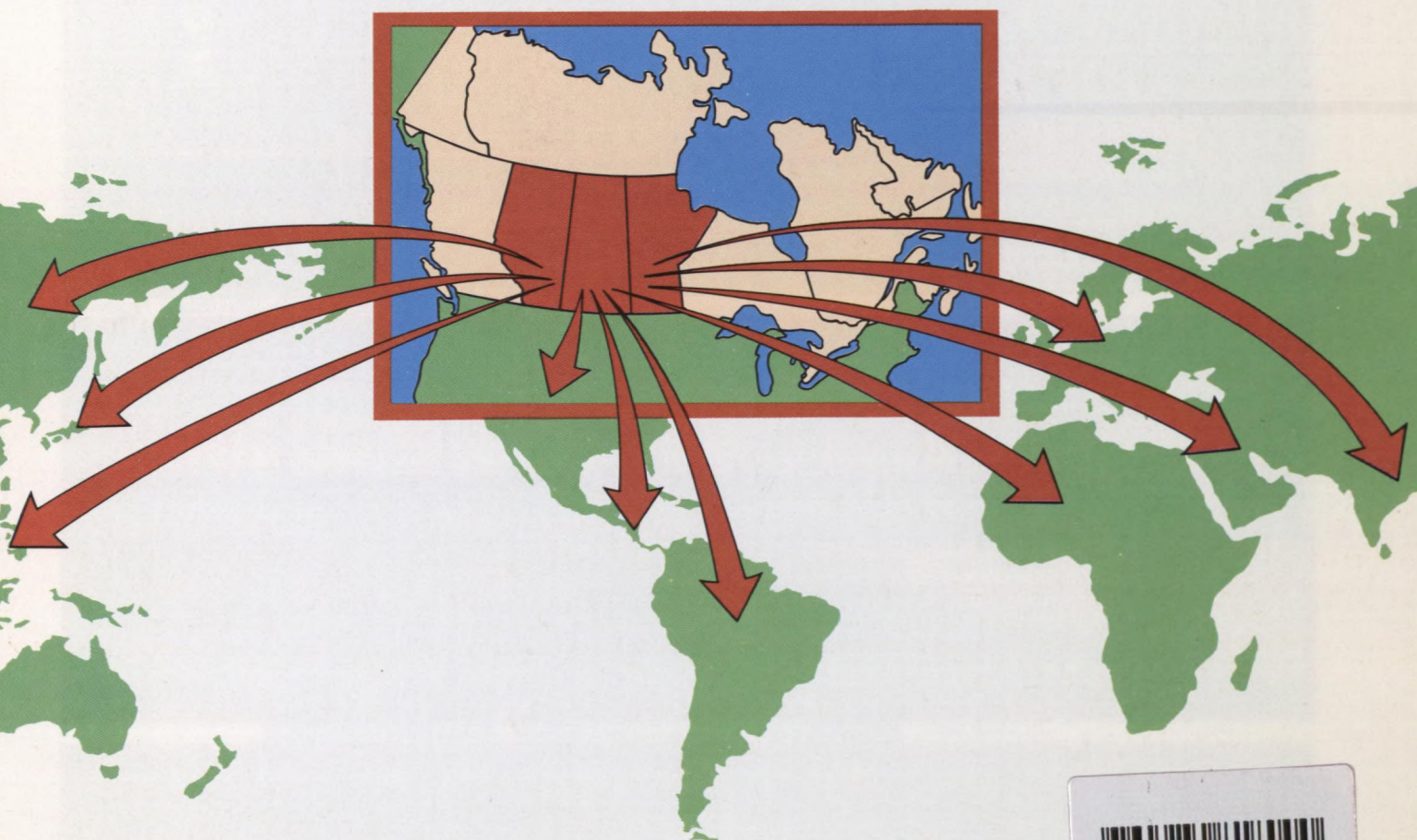
After the pulse crop has been bagged, inspected and graded, the grain company arranges delivery.

Regardless of its destination—across Canada or around the world—the companies' transportation experts guide the shipment each step of the way.

The bags are gently loaded in special containers and won't be unloaded until they have arrived at their final destination. The containers are shipped by truck, train, ship or often a combination of all three transportation modes.



# Meeting World Demand



From producer to processor, everyone involved in the Western Canadian pulse industry has a strong commitment to meeting the world demand for crop quality, supply, delivery and economy. This commitment is reflected in our extensive investment in research and plant breeding programs.

Aside from worldwide commercial sales, Canada has supplied pulse crops as food-aid to many countries suffering famine. Western Canadian lentils, peas, fababeans and beans are rich in protein, fibre, vitamins and minerals.

Having a much longer storage life than meat and costing less to produce, pulse crops offer a ready answer to world food problems.

Western Canada has the land, human resources and commitment to meet your requirements for quality pulse products, now and far into the future.

*For further information on Western Canadian pulses, please contact one of the three provincial associations or any of the exporters on the inserted listing, opposite.*



# Exporters of Western Canada Pulse Crops

*b2260037(E)*

**Agricultural Development Corporation of Saskatchewan**  
11th Floor - 2500 Victoria Ave, Regina, Saskatchewan S4P 3V7  
Bruce Hanson, President (306) 787-5037 Telex: 071-2444

**Agro Company of Canada Ltd.**  
975 - 167 Lombard Ave, Winnipeg, Manitoba R3B 0V3  
W.B. Malchy, President (204) 944-9328 Telex: 075-7805

**Alberta Sunflower Seeds Ltd.**  
Box 767, Bow Island, Alberta T0G 0G0  
Tom Droog, President (403) 545-2560 Telex: 03-821172 - CGY

**Alberta Wheat Pool**  
Box 2700, 505 - 2nd Street N.W., Calgary, Alberta T2P 2P5  
Doug E. Livingstone, President (403) 290-4910 Telex: 03-821643

**Alberta Wheat Pool - Bean Division**  
Box 96, Bow Island, Alberta T0K 0G0  
Doug Livingstone, President (403) 545-2662 Telex: 03-848211

**Allstate Grain Company Ltd.**  
8431 - 160th Street, Surrey, British Columbia V3S 3T9  
Ronald Nunweiler, President (604) 597-2222 Telex: 04-55753

**BC Pea Growers**  
Box 280, Armstrong, British Columbia V0E 1B0  
Jeff Heal, President (604) 546-3043 Telex: 04-885315

**Balfour Grain Ltd.**  
Suite 882 - 167 Lombard Ave, Winnipeg, Manitoba R3B 0V3  
Dan Burneski, President (204) 942-2404 Telex: 07-587865

**Bergerco Canada Agriculture Ltd.**  
127 Main St. N., P.O. Box 1147, Moose Jaw, Saskatchewan S6H 4P8  
Gerald Aldridge, President (306) 693-6437 Telex: 071-2734

**Brett-Young Seeds Gilbert Plains Ltd.**  
Box 367, Gilbert Plains, Manitoba R0L 0X0  
Isaac Krahn, Manager (204) 548-2969 Telex: 07-55144

**C.B. Constantini Ltd.**  
Suite 400, 1477 West Pender Street, Vancouver, B.C. V6G 2S6  
David Calkins, President (604) 669-3741 Telex: 04-508829

**C.S.P. Foods Ltd.**  
Box 750, Altona, Manitoba R0G 0B0  
Garth Stevenson, President (204) 324-6481 Telex: 07-57556

**Canadian Pulse Processors Inc.**  
400 - 4th Avenue N.E., Portage la Prairie, Manitoba R1N 0E7  
Brian McCowan, General Manager (204) 239-5501 Telex: 07-587658

**Canmar Grain Inc.**  
499 Hoffer Drive, Regina, Saskatchewan S4N 6E2  
Cecil Werner, President (306) 924-2255 Telex: 071-2619 (Tag Reg)

**Cargill Grain Limited**  
300 - 240 Graham Ave, Winnipeg, Manitoba R3C 4C5  
Kerry Hawkins, President (204) 947-6252 Telex: 07-57759

**Chinridge Seed Processors Ltd.**  
Box 222, Taber, Alberta T0K 2G0  
Lawrence Barany, President (403) 223-8634

**Continental Grain Co. Ltd.**  
Suite 900, 360 Main Street, Winnipeg, Manitoba R3C 3Z3  
Jerry McClintock, President (204) 942-5181 Telex: 07-587549

**Demeter Agro (1977) Ltd.**  
Box 189, Lethbridge, Alberta T1J 3Y5  
Steve McDonnell, President (403) 329-4111 Telex: 03-849162

**Harders' Seed Service Ltd.**  
Box 58, Plum Coulee, Manitoba R0G 1R0  
Rod Harder, President (204) 829-3641 Telex: 07-57278

**Humboldt Flour Mills Co. Ltd.**  
P.O. Box 400, Humboldt, Saskatchewan S0K 2A0  
Wilf Chamney, President (306) 682-2577 Telex: 074-2316

**International Grain Trade Canada Inc.**  
303 - 9801 King George Hwy, Surrey, B.C. V3T 5H5  
Tom Marshall, President (604) 589-4444 Telex: 04-351338

**James Richardson & Sons Ltd.**  
2500 - One Lombard Place, Winnipeg, Manitoba R3B 0Y1  
George Richardson, President (204) 988-5623 Telex: 07-57706

**Kapt-AI Services Limited**  
P.O. Box 2050, Tisdale, Saskatchewan S0E 1T0  
Dave Walker, President (306) 873-2648 Telex: 074-29201

**Legumart**  
P.O. Box 55, Delmas, Saskatchewan S0M 0P0  
Tim Freemark, President (306) 895-4705 Telex: 053-3516—Ont

**Linear Agra (Man.) Ltd.**  
Box 666, Carman, Manitoba R0G 0J0  
Ross McKnight, President (204) 745-6747 Telex: 07-55850

**Louis Dreyfus Canada Ltd.**  
Room 810, 360 Main Street, Winnipeg, Manitoba R3C 3Z3  
Brant Randles, President (204) 943-3546 Telex: 07-57895

**Manitoba Pool Elevators**  
Box 9800, Winnipeg, Manitoba R3C 3K7  
W.J. Strath, President (204) 947-1171 Telex: 07-587618

**Market Access Inc.**  
840 - 410-22nd Street East, Saskatoon, Saskatchewan S7K 5T5  
Glenn Gordon, President (306) 244-5444 Telex: 074-21579

**N.M. Patterson & Sons Limited - Grain Division**  
609 - 167 Lombard Ave, Winnipeg, Manitoba R3B 0V5  
Don Patterson, President (204) 956-2090 Telex: 07-57285

**Newfield Seeds Limited**  
Box 100, Nipawin, Saskatchewan S0E 1E0  
Fraser Rempel, President (306) 862-4678 Telex: 074-29150

**Northern Sales Co. Ltd.**  
5th Floor, 200 Portage Ave, Winnipeg, Manitoba R3C 3X2  
Clifford Swartz, President (204) 949-1456 Telex: 07-57178

**Palliser Grain**  
102 Stockman Center, 2116-27th Ave N.E., Calgary, Alberta T2E 7A6  
Gary Haley, President (403) 291-4450 Telex: 038-27969

**Parent Seed Farms Ltd.**  
Box 36, St. Joseph, Manitoba R0G 2C0  
Ron Parent, President (204) 737-2625

**Parrish & Heimbecker Ltd.**  
700 - 360 Main Street, Winnipeg, Manitoba R3C 3Z3  
Herb Heimbecker, President (204) 956-2030 Telex: 07-57677

**Pioneer Grain Company Ltd.**  
Richardson Building  
2500 - One Lombard Place, Winnipeg, Manitoba R3B 0X8  
K. Bruce McMillan, President (204) 934-5961 Telex: 075-7514

**Premier Grain Co. Ltd.**  
1320 - 41 Street North, Lethbridge, Alberta T1H 5T5  
Henry Bekkering, President (403) 329-4450

**R.T. Stow Ltd.**  
R.R. 3, Carman, Manitoba R0G 0J0  
R.T. Stow, President (204) 745-3252

**Reimer Seeds Ltd.**  
Box 1236, Winkler, Manitoba R0G 2X0  
Frank Reimer, President (204) 325-9555 Telex: 07-587518

**Roy Legumex Inc.**  
Box 40, Ste. Jean Baptiste, Manitoba R0G 2B0  
Richard Sabourin, President (204) 758-3597 Telex: 07-57195

**S.S. Johnson Seeds Ltd.**  
P.O. Box 100, Arborg, Manitoba R0C 0A0  
Brian Johnson, President (204) 376-5545

**Sabourin Seed Service Ltd.**  
Box 340, Ste. Jean Baptiste, Manitoba R0G 2B0  
Louis Sabourin, President (204) 758-3595 Telex: 07-55851

**Saskatchewan Wheat Pool**  
2625 Victoria Ave, Regina, Saskatchewan S4T 7T9  
Garf Stevenson, President (306) 569-4411 Telex: 071-2284

**Shafer - Haggart Ltd.**  
Box 1179, Morden, Manitoba R0G 1J0  
Blair Andrews, President (204) 822-6275 Telex: 07-587897

**Stow Seed Processors Ltd.**  
Box 7, Graysville, Manitoba R0G 0T0  
Doug Stow, President (204) 828-3201 Telex: 07-587657 or 07-587718

**United Grain Growers - Seed Division**  
Box 100, St. Norbert, Manitoba R3V 1L5  
Lorne Hehn, President (204) 269-2111 Telex: 07-55127

**Wheat City Seeds Ltd.**  
Box 292, Brandon, Manitoba R7A 5Z2  
Rod Whetter, President (204) 725-3547 Telex: 07-502788

**Wilbur Ellis Company of Canada Ltd.**  
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Carter Thatcher, President (604) 662-3711 Telex: 04-507815



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# Western Canada Pulse Growers' Association

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Saskatchewan Pulse Crop Development Board  
Telephone (306) 787-4665  
Telex 071-2474

Manitoba Pulse Growers' Association  
Telephone (204) 945-4491  
Telex 07-587881

Pulse Growers' Association of Alberta  
Telephone (403) 381-5127  
Telex 03-849343

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