THE ECONOMIC IMPACT OF CROP DEVELOPMENT



OF THE ACREAGE IN WESTERN CANADA

GROWS CDC VARIETIES

LENTIL

BE WHAT THE WORLD NEEDS

The Crop Development Centre (CDC) at the University of Saskatchewan develops new crop varieties that bring value to the agriculture sector, through the development and application of scientific knowledge and technologies, in partnership with stakeholders across the agriculture value chain. It generates a return on investment to its major stakeholder groups – producers, industry and government.

The CDC is a world-class crop improvement centre that delivers crop genetics for the benefit of society. A combination of crop improvement expertise, facilities and land—all in one place.

A recent economic assessment of the CDC has revealed substantial economic returns from research, and significant local, regional and international impact through research outputs and market share of CDC varieties in western Canada.



The connection of the CDC to the College of Agriculture and Bioresources supports strong undergraduate and graduate training programs in crop improvement. In addition to training undergraduate students, CDC faculty have trained over **380** graduate students, many of whom have worked or continue to work as leaders in the agriculture industry. Training the next generation of plant breeders is essential to meet the demands of a hungry and growing world.

INVESTMENT ANALYSIS



BRINGING A NEW CROP VARIETY TO MARKET -

It can take 10-12 years to release a new variety to be grown on farmers' fields. The CDC crop development programs combine conventional and state-of-theart technologies and processes to support crop development, including use of genomic, digital phenotyping and computational decision-support technologies.



COMMERCIALIZATION -

The CDC partners with seed companies to commercialize new varieties. In return, the Centre receives royalties that are invested directly back into its research and breeding activities.



PLANT PATHOLOGY SUSTAINABLE PRODUCTION SYSTEMS SK LEADS THE WORLD IN EXPORTING OF PEA, LENTIL, AND CHICKPEA staple foods in fast-growing countries such as India, China, Bangladesh, and northern Africa IN EXPORTS OF CANARY SEED Developed the first hairless canary seed which helped make SK the world's leading producer and exporter of canary seed GLOBAL DURUM WHEAT EXPORTS Canada is the world's largest single producer and export of durum wheat



BE WHAT THE WORLD NEEDS