

Lifecycle and socio-economic analysis of pulse crop production and pulse grain use in Western Canada

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SPG Contributions	Project Status	Duration/Timeline of Project (Year to Year)	Co-funders	Total Project Cost
\$112,395.00	Completed	July 2008 – June 2011	Agricultural Bioproducts Innovation Program – Pulse Research Network (ABIP – PURENet)	\$112,395.00

Project Description

To assess the environmental effects of including pulse crops in a crop rotation and subsequent pulse grain use as animal feed, for human consumption and for ethanol production in Western Canada; to assess the socio-economic effects of pulse crop production and use as animal feed, for human consumption and for ethanol production in Western Canada.

Outcome

The inclusion of pulse crops into oilseed-cereal rotations is environmentally and economically beneficial as pulses reduce rotation nitrogen (N) fertilizer requirements and increase the overall grain yield and quality of the rotation. Pulse crops have been shown to be a good option to improve the environmental, economic and social sustainability of crop rotation management, as well as dry pea use as swine feed and, possibly, pea protein for human consumption.

Research Objective

OBJECTIVE 1

To assess the environmental effects of including pulse crops in a crop rotation and subsequent pulse grain use as animal feed, for human consumption and for ethanol production in Western Canada.

OBJECTIVE 2

To assess the socio-economic effects of pulse crop production and use as animal feed, for human consumption and for ethanol production in Western Canada.