

New canola strain takes the 'evil' out of 'weevil'

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A canola seed has been bred to resist the cabbage seedpod weevil.

(PhysOrg.com) -- A strain of canola that could save farmers millions of

dollars per year in crop losses and insecticide costs has been developed in part by a University of Alberta researcher.

A canola seed bred to resist the cabbage seedpod weevil - a major threat to canola crops in Western Canada - has been developed by Lloyd Dosedall, a professor of agricultural entomology at the U of A, and a researcher at the University of Guelph.

The weevil, which devours seeds inside the pods of the plant, is an ongoing threat to production in southern Alberta and southern Saskatchewan and is spreading north and east at a rate of 50 kilometres per year. Annual crop losses and insecticide costs to protect against the pest reach into the millions of dollars, said Dosedall.

Canola crops contribute up to \$2 billion annually to Alberta's economy alone.

To develop a seed that could withstand the weevil, Dosedall and his colleague developed a hybrid using the white mustard plant, which has natural resistance to the pest, and is a close cousin to canola. "The result is a canola plant that maintains its quality and vigour, and now has the genetic ability to resist the weevil," he noted.

The discovery will allow farmers to ease the use of pesticide on their canola, and may prevent crop losses by as much as 25 per cent, Dosedall added.

The new strain of canola is expected to be commercially available to farmers by 2010.

Dosedall has been working on this and related research for 20 years, with the overall aim of finding ways to control insect pests with minimal economic and environmental impact.

Provided by University of Alberta ([news](#) : [web](#))

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