

Mustard 21 Project Update

Mustard 21 is now in its second year of funding from Agriculture and Agri-Food Canada (AAFC) Science and Innovation (S & I) program. In its initial year, as reported in the June 2008 issue of Mustard Grower, the Mustard Strategic Plan was developed by defining the best opportunities for creating new products from both the yellow and oriental/brown mustard. The use of mustard oil for value-added biodiesel additives and mustard meal for soil amendment use were the best options for creating a domestic value-added industry. It was critical to maximize the value of all components of the mustard seed to make it a viable business.

This second year is dedicated to implementing the M21 strategy with continued support from the AAFC Science and Innovation initiative. We have now embarked upon developing the new products to capture the value of mustard meal's nutrient value, as well as its biological activity to manage pests. This work has just been initiated with industrial partners to develop and market specialty products that will increase the value of the meal compared to meal as a feed commodity. This is an exciting area that will help to create a new domestic industry.

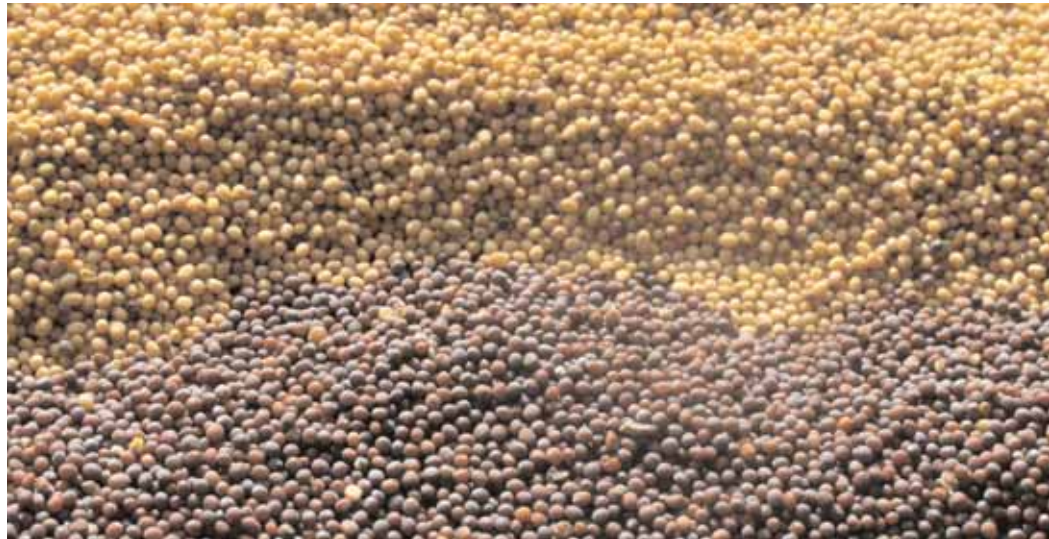
Mustard meal as a potential biopesticide is a very interesting opportunity. Work is focused on getting support

for approval for mustard meal as a biopesticide. To develop the data that will help get approval, as well as demonstrate the performance of the product, will take most of the year.

Mustard oil, even though mustard is not considered an oil crop, does present a very significant opportunity to create new products based on

it to meet this rising demand. It is expected that mustard based products will enjoy an increasing market for the foreseeable future and will provide an increasing demand for mustard seed.

Mustard 21 is committed to working with the funding agencies, industrial partners, producers and researchers to improve mustard yields and



its unique profile with erucic acid as one key component. The work that is planned this coming year is to develop higher value products that will utilize this unique composition in biodiesel additives and as a biolubricant. These biofuel additive products are expected to improve and increase efficiency and engine performance as the renewable fuel industry evolves. Mustard oil based additives are being tested and modi-

address production and agronomy issues that will serve the industry with better tools. One area that M21 will evaluate is weed control options that will hopefully enhance the options available to all Mustard Growers. Keep tuned as M21 builds new value for mustard in the domestic markets, while still continuing to enjoy the traditional condiment market that has been developed and enjoyed for the past decades.

