

Integrated Management of Cropland Pests (IMCP)

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Goal

Develop IMCP strategies that are:

- Environmentally sound
- Productive
- Profitable

Outcome

- Recommendations for IMCP
- IMCP Fact Sheets
- Increased awareness among SK producers

Weeds

- . Relative effectiveness of control measures
- . Population shifts associated with changes in agronomic inputs
- . Long-term changes to seedbank

Experimental Sites

- . Saskatchewan Wheat Pool Research Farm, Watrous SK
- . Kernen Crop Research Farm Saskatoon SK

Management systems

- . Four year rotation (1997-2000): wheat, canola, barley, pea
- Six herbicide x tillage systems
- Varying seeding dates and rates
- . With/without foliar fungicides
- . Insecticides as required

Agronomy

- . Crop establishment and development
- . Fertility requirements
- . Moisture utilization
- . Yield and quality

Insects

- . Dynamics of beneficial insects and soil arthropods
- Damage from oilseed and cereal pests
- Forecasting insect emergence

Environment

- . Meteorological conditions
- . Effects of management practices
- . Soil and canopy temperatures
- . Correlation with crop and pest development

Diseases

- . Severity of foliar diseases
- . Assessment of new fungicides
- . Quantification of disease impact

Economics

- Relative costs, returns, risk issues
- . Cost effectiveness of IPM control options
- . Total annual economic losses from residual crop pests



Canada

Saskatchewan



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