## **ONTARIO FUTURE CROP YIELD MAPPER:** A Web Tool Prototype for Mapping the Effects of Climate Change on Crop Yields in Ontario, Canada

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**OBJECTIVE** 

**Tomatoes, Sunflower and Sugarbeet** 



The development of The spatially-explicit Interac prototype web mapping tool was achieved with l coupling GCM "climatology" outputs to a crop gro model and to soils and crop databases. With current technology it is not possible to achieve a seamless integration of models and databases, as importan decisions in the data processing workflow need to made in order to minimize uncertainties. A major To overcome is the accurate downscaling of data regional level for climatic variables relevant to cro growth modelling, in order to allow for the displa future crop yield predictions generated by model yields under climate change conditions at future t for the main crops in Ontario. Automation of all t procedures will demand substantial coding and so of algorithms. Web tools can take advantage of e web mapping platforms and interface them. Subs negative changes in terms of percentage of yield a expected in the Province over time from the pres 2070 under the assumptions of the emissions scen made by the GCMs





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## CONCLUSIONS

Percentage change in crop yield