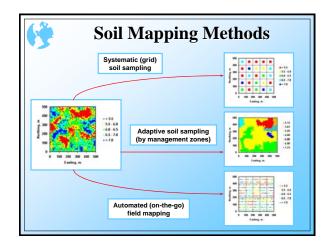


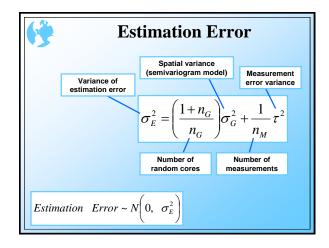


## **Background**

- Accurate soil maps are required to implement site-specific crop management
- Quality of information is highly dependent on data acquisition methods
- Estimation error defines the quality of information (addressed in Part I)
- There is a need to relate estimation error and potential economic benefits (Part II)
- Cost of data acquisition and processing should not exceed the information value defined by the potential economic benefits



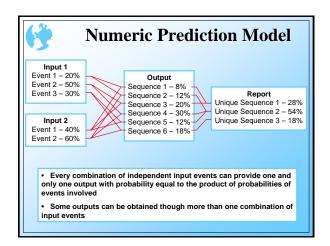


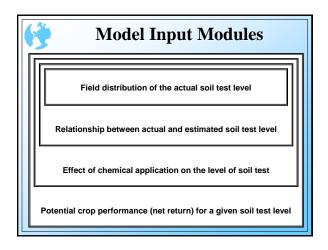


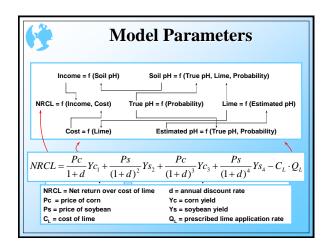


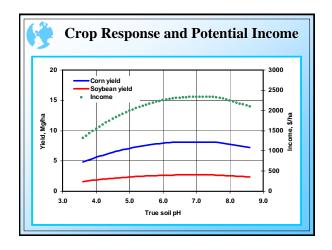
## **Objectives**

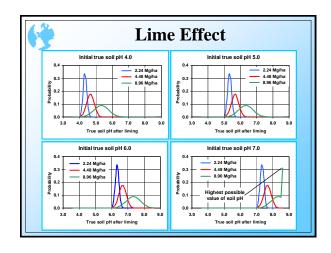
- Develop a comprehensive model for predicting the potential agro-economic effects of different levels of soil mapping errors while pursuing a variable rate soil treatment
- Use soil pH management (variable rate liming) as an example
- Use numeric analysis methods to remove any model inputs restrictions

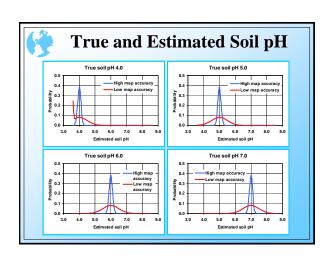


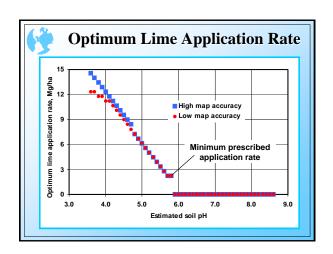


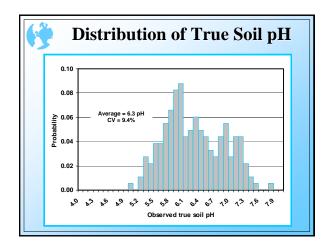


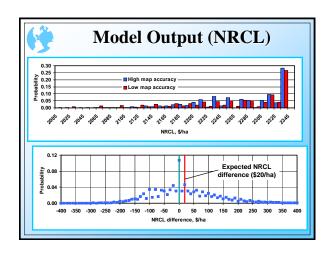


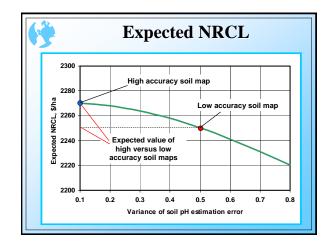












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## **Conclusions**

- A comprehensive numeric model can be used to predict potential agro-economic effects of different soil mapping techniques
- Model inputs have to be defined to represent realistic relationships between parameters involved
- The dependency of model output from soil mapping error (or other model inputs) can be used to quantify the potential for a particular site-specific soil management strategy

