

Changes in Crop Production and Implications for Research

Theme: *Crop and Soil Management*

Tuesday July 20, 2021

9:00 AM to Noon (SK/AB Time)

9:00 AM Welcome
Amaethon Report Summary: Crop and Soil Management Cross Cutting Issues
Discussion
Guidance for sub-theme breakout discussions

9:45 AM Break

10:00 AM Sub-Theme Breakout Discussions on Cross Cutting Issues

Sub-Theme 1: Weeds (Issues from Amaethon Report)

- Reduced availability of effective herbicides
- Herbicide resistance
- Alternative management practices, new technologies to replace or enhance current practices, tools, products
- Surveillance

Sub-Theme 2: Diseases (Issues from Amaethon Report)

- Increasing disease pressure
- De-registration of products
- Genetic/crop resistance technology, resistance breakdown
- Fungicide resistance
- Development, testing and adaptation of new products, application technologies and management practices
- Disease monitoring and forecasting disease prevalence/outbreaks and development/refining risk assessment tools

Sub-Theme 3: Insects (Issues from Amaethon Report)

- De-registration of products
- Insecticide resistance
- Genetic/crop resistance technology, resistance breakdown
- Alternative management practices and technologies
- Development, testing and adaptation of new product and application technologies
- Beneficial insects and integration into economic thresholds
- Surveillance of insect pests
- Forecasting outbreaks and development/refinement of economic thresholds



Sub-Theme 4: Plant Nutrition (Issues from Amaethon Report)

- Increased regulation for crop nutrient uses (manure and fertilizers)
- Need for increased nutrient use efficiencies
- Verification and potential update of fertilizer recommendations and nutrient removal rates
- Soil testing refinements or alternative technology
- New technologies for 4R nutrient stewardship (source, rate, time, placement)
- Effects of changing climate
- On-farm sources of nutrients
- N-fixation in currently non-fixing crops
- Harnessing the power of soil microbes

Noon Sub-Theme discussions complete. Thank you!

Pre-registration is required. **The deadline to register is July 12, 2021, at Noon CST.** Each breakout group will have a moderator and recorder. We hope to accommodate all registrants but reserve the right to limit participation if registration exceeds the capacity of our breakout groups. Please consider volunteering to help with the breakout groups.
Registration link: <https://forms.gle/t51pDY6t39attmx78>

