

# **Grower/Dealer View of High Yield Crop Production. (S08-koening143602-Oral)**

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## **Abstract:**

Strategies to attain record high corn yields from a field are likely to be different than those used to attain economic optimum yields across multiple fields. The latter approach is taken by Agricultural Services Inc., an independent retailer marketing fertilizer, chemicals, and custom application through 9 plants located in South Central and North Central Nebraska. The company also operates farming operations on 800 hectares in North Central Nebraska. These farms are used for normal crop production and company research with replicated plots that are 6 or 12 rows wide and 760 meters long. Private research is conducted on approximately 40 hybrids per year involving use and timing of fertilizer and chemicals and cultural practices including plant populations. This presentation outlines key production principals that are currently applied to achieve maximum economic yields concerning soil sampling and recommendation techniques, N application/timing, plant populations, irrigation scheduling methods/techniques, and color IR photography. This presentation attempts to connect science principles with actual practices that are economically viable.

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## **Keywords:**

nutrients, irrigation, climate, soil variability