2010 CMDC
High Yield
Roger Elmore

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High-Yield Corn Management

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Achieving 300 Bu/Ac Corn Yield

- Location, Location, Location
- Soil...high organic matter, well drained
- Management
  - Water
  - Fertility & pH
  - Tillage
  - Pest management – Weeds, Disease, Insect
  - Hybrid
  - Plant population
  - Planting date
  - Row Spacing
  - Crop Rotation

Yield: Genetics, Management, & Environment

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**Corn Growth & Development – Back to the Basics**

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**Outline**

- Growing Degree Days (GDD)
- Growth staging methods
- Seed Germination and Emergence
- Vegetative Development
- Reproductive Development

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**Leaf Collar Method:**

The collar is where the leaf blade visually breaks away from the sheath and the stalk
**Root Development**

- Soil Level
- Coleoptile
- Mesocotyl
- Radicle

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**V10+: Splitting the stalk**

- Approximately ½ inch above the condensed area is the 5th node.
- First four nodes cannot be distinguished from one another - they are located at the base of the crown.
- This method will be required until VT.

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**Vegetative (V) & Reproductive (R)**

- VE
- V1
- Vn+
- VT
- R1
- R2
- R3
- R4
- R5
- R6

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