South Dakota State University

Site Name: Southeast Research Farm
Site ID: SERF_SD
Practice: Controlled Drainage

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SITE CHARACTERISTICS
- Drainage system installed in 2013 (converted from grass to row-crop)
- Soil: Davidson-Chancellor complex, silty clay loam
- Rotation: Corn-Soybean

WATER MANAGEMENT PRACTICES
- Conventional Drainage (depth 4’, spacing 40’)
- Controlled Drainage (depth 4’, spacing 40’)

SITE MEASUREMENTS (2015-2017; n=# of years)
- Tile Flow
- Tile Water Quality: Nitrate-N, Reactive P, Electrical Conductivity
- Water Table Depth
- Soil Texture
- Soil Bulk Density
- Soil Penetration Resistance
- Hydraulic Conductivity
- Soil Moisture and Temperature
- Soil Nitrate
- Crop Yield
- Leaf Area Index
- On-Site Weather Station: Precipitation, Air Temperature, Relative Humidity, Solar Radiation, Wind Speed and Direction, Evapotranspiration

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