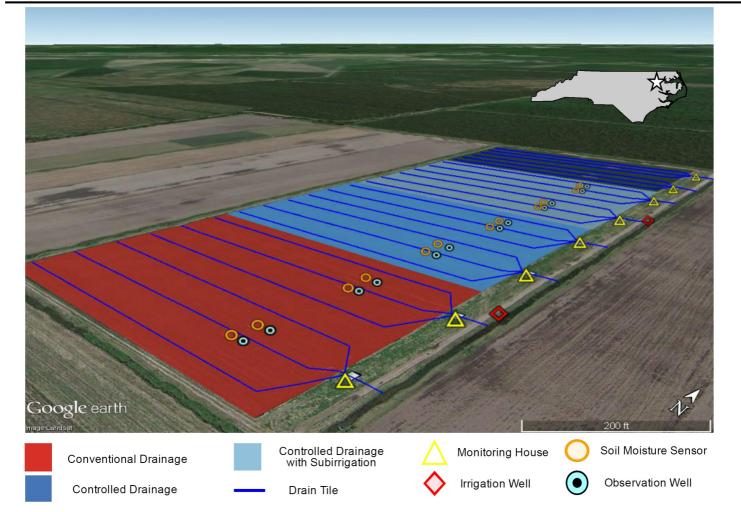


North Carolina State University

Site Name: Tidewater Research Station Site ID: TIDE

Practice: Controlled Drainage





Research Site Leader: Mohamed Youssef, North Carolina State University



SITE CHARACTERISTICS

- Drainage system installed in 1990 (depth 4', spacing 75')
- Soil: Portsmouth sandy loam
- Rotation: Corn-Wheat-Soybean

WATER MANAGEMENT PRACTICES

- Conventional Drainage
- Controlled Drainage
- Controlled Drainage with Subirrigation

SITE MEASUREMENTS (2013-2015; n= # of years)

- Tile Flow (n = 3)
- Tile Water Quality: Nitrate-N (n = 3)
- Water Table Depth (n = 3)Soil Moisture (n = 3)
- Soil Fertility: Total N (n = 3) Crop Yield (n = 3)
- Total N: Vegetative (n = 3)
- Corn Development Stage (n = 3)
- On-Site Weather Station: Precipitation, Air Temp, RH, Solar Radiation, Wind Speed and Direction (n = 3)