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Summary

- Apparent soil electrical conductivity and field elevation maps were used to locate a wireless network of nine nodes to monitor soil matric potential and temperature at four depths
- A soil water retention model was used to predict the volumetric water content and, ultimately, the depletion of available water throughout the growing season
- Coarse-textured soils located predominantly along the lower field elevations had water regimes that differed from the rest of the field
- Crop canopy height limited performance of the wireless sensor network, which was accounted for by raising the nodes using a pivoted mounting arm

