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Soil Density Sampling in Cropping Season with Orthman ItRIPr Tillage System - Georgia

14-Jan-2013 Georgia Results:

In continuation of the Sustainable Projects at *Tifton, GA* – and even in the tough years of drought there is news that the Strip-Tillage method is having a positive impact on soils and peanut production. Soil Scientist, Kip Balkcom offers this brief look at recent findings.



Harvesting peanuts that were strip-tilled – in Georgia

All the graphs are set up the same way. The x-axis corresponds to the distance across the row with 0 being the row center, the negative values indicating a traffic area between rows, and the positive values indicating a non-traffic area between adjacent rows. The y-axis corresponds to the sampling depth with 0 (upper left) indicative of the soil surface. The cone index values are measured in Megapascals with the scale identical for each plot. The scale goes up over 11 because there were some high cone index values measured, but **cone index values above 2.0 MPa are quite detrimental to root growth**. Top graphic is prior to strip tillage with the ItRIPr, middle graphic is after implement prior to planting and the bottom graphic is at harvest time. Strip-till has season long effect.

