

Corn Leaf Area - Strip-Tilled vs. Conventionally Tilled



Leaf area is measured when corn has reached maximum height at 100 days after emergence. All leaves are measured excluding the leaf structures surrounding the ear.

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Strip Tillage improves plant growth & yield

Our field measurements are to allow growers to determine what are the effects of tillage management alternatives in a Western Cornbelt field.

The first four groupings of the bar chart represent conventional tillage (2- discings, 1- chisel, & 1- field finish operation) and the four on the right are with strip-till. Allcorn was a 110 da variety of Dekalb seed each year of the on-going study.

The conventional tilled corn has a trend of improvement from 2002 to 2005 of 13%. The strip-tilled corn depicts a trend of improvement of 18.5% overall. Yields improved from 2002 to 2005 in both strip-till and conventional tilled. Conventional rose from 192 to 245 bu/acre however strip-till rose from 204 to 271 bu/acre.