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Abstract

The portion of the crop left in the field after harvesting is defined as crop residue. Incorporating crop residues leaves the soil surface exposed to soil erosion. Crop residue management is one of the most efficient methods to control soil erosion. Leaving crop residue on the soil surface before and during planting provides very good cover for the soil. Soil erosion can be greatly reduced by maintaining a crop residue cover on the soil surface at least 15-30% after all tillage and planting operations. Researches show that using crop residues to protect the soil surface from rainfall can reduce water erosion by 90%. Crop residues improve soil tilth and add organic matter to the soil. The crop residues decrease the rate of runoff, allowing more time for water infiltration into the soil. Also, the number of tillage passes is decreased to leave crop residues on the soil surface and soil compaction can be decreased. At the same time, fewer tillage operations provide time, energy and labour savings. For these reasons, measuring or estimating crop residue cover is very important for crop residue management and usefulness in terms of soil erosion control. The percentage of soil surface covered with crop residue can be measured or estimated using different methods. The main objective of this paper is to explain methods used for estimating or measuring crop residue cover. These consist of line transect, meter stick, photo comparison, calculation methods, and image processing.

Keywords: *Crop residue cover, Line transect, Meter stick, Photo comparison, Image processing, Crop residue management.*