

Tillage systems for soil and water conservation

Food and Agriculture Organization of the United Nations - Conservation Tillage Practices and Erosion Control

Description: -

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Niue -- Statistics, Vital.

Niue -- Statistics, Medical.

Health surveys -- Niue.

Women -- Health and hygiene -- Niue -- Statistics.

Albigenses.

Grail.

Arctic regions -- Discovery and exploration -- Norwegian

Nansen, Fridtjof, -- 1861-1930 -- Travel -- Arctic regions

God -- Promises -- Meditations.

Authors, Romanian -- 20th century -- Biography.

Authors, Romanian -- 19th century -- Biography.

Zamfirescu, Duiliu, 1858-1922.

Land use -- Virginia -- Planning -- Addresses, essays, lectures.

Land use -- United States -- Planning -- Addresses, essays, lectures.

Water conservation.

Soil conservation.

Conservation tillage.

Cropping systems.

Tillage. Tillage systems for soil and water conservation

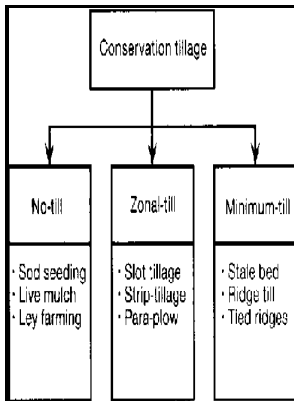
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FAO soils bulletin ; Tillage systems for soil and water conservation

Notes: Bibliography: p. 241-270.

This edition was published in 1984



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What is Tillage? An Explanation and Reasons Why It Is Used

Crop rotation refers to growing of crops in

an order in which the chosen cultivated crops follow one another in a set of cycle on the same field over a definite period of time for their growth and maturity with an objective to get maximum profit with least investment without impairing soil fertility. Improves soil physical condition due to incorporation of organic residues leading to higher water infiltration into the subsoil, c.

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This process involves the planting, developing and harvesting of plants with limited disturbance regarding the surface of the soil.

Soil & Water Management: Water Conservation

As with nitrogen and phosphorus, some herbicides attach to soil particles or dissolve in surface runoff. The row zones are pulverized and seeds sown. It leaves no land unploughed and no residue on the field.

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Seed-bed: ADVERTISEMENTS: When soil is brought to such a condition ideal for crop growth, it is called seed-bed and is said to be in good tilth. Hence, they need to invert it using a tractor-pulled plow. Therefore, conservation tillage involving ZT and minimum tillage which has potential to break the surface compact zone in soil with reduced soil disturbance offers to lead to a better soil environment and crop yield with minimal impact on the environment.

Conservation Tillage

Pesticides - Herbicides are the type of pesticide most frequently detected in water supplies. Soil pores are closed, imposing severe limitations on

infiltration and increasing runoff. Wheel Track Planting : Ploughing is done as usual.

Conservation Tillage

Ridge plough, Disk plough etc. Problems of zero tillage are low seed germination, low mineralization and build up of volunteer plants. Following heavy residue crops such as corn, wheat or sod, these tools usually leave 30 percent or more residue cover.

Conservation Tillage

Where soil erosion by wind is the primary concern, any system that maintains at least 1000 pounds per acre of flat, small grain residue equivalent on the surface throughout the critical wind erosion period. In addition, although farmers typically need less tillage equipment to plant with no-till, there is an initial cost associated with purchasing no-till equipment for farmers who use conventional or conservation tillage equipment.

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