

Determination of the Effects of Different Tillage Methods on Yield and Physical, Chemical and Biologic Properties of the Soil.

Research Area	Soil, Water Resources and Environment
Research Program	P-08 Input Optimization in Agricultural Investments and Diversification of Economic Activities in Rural Areas
Executive Institute	International Agricultural Research and Training Center Directorate
Supporting Institute/s	Ege University Faculty of Agriculture. Department of Agricultural Machinery and Technology Engineering - Adnan Menderes University Faculty of Agriculture. Department of Soil Science and Plant Nutrition
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Research Period	2017 – 2021
Project Summary: <p>After 1960's in our country, increases in yield have occurred as a result of the application of new kinds and growing techniques in agricultural production and increases have occurred in unit crop cost by the increase of the inputs. Besides this, decrease of the efficiency depending on the exploitation of the surface of the soil as a result of incorrect applications, pollution of underground waters, and decrease in water sources as a result of excess usage, salinity, and increase of erosion by excess soil tillage have been encountered as important problems. For this reason, researching of the subjects, the deficiency of which have been felt in previous studies which have been carried out intended for the researching of new production systems which provide the continuity of soil efficiency, increase the energy and water usage efficiency and reduce the production cost in irrigable and non-irrigable areas and constitution of direct drilling and conservation tillage on the basin of territorial basin are needed.</p> <p>At the end of the research, when the profitable production is rendered by reducing the enterprise costs, reduction of field traffic, conservation of soil efficiency, minimization of erosion and preservation of the environment will be provided. Demonstrations will be designed in order to present the prominent conservation tillage and drilling systems in farmer conditions for putting the results into practice.</p> <p>Key words: Soil tillage, conservation tillage, drilling, direct drilling,</p>	