

EFFECT OF ORGANIC MANURE AND SUBSOIL LOOSENING ON QUALITY OF POTATO

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ABSTRACT

Potato is an important global food source and one of the most important sources of starch. Interaction between physical and chemical characteristic is important source of variation in any crop including potato, so in this experiment one cultivar of potato was studied on factorial design on the base of randomized complete block design in four replications in Ardabil, Iran. Some parameters such as percent of starch, percent of dry matter and the size of tuber were evaluated. Farmyard manure were placed in four levels 0, 15, 30, 45 ton/ha in main plots, and in subplots, there were two levels of tillage operation, subsoiling and without subsoiling. Effect of subsoiling for all measured traits was insignificant, and subsoiling with farmyard manure has no interaction for all measured traits too. Result analyses of variance of data indicate that there is significant difference between farmyard manure with percent of dry matter and percent of starch. There is no significant difference between farmyard manure with tuber size, no correlations between all of experimental qualitative factors

Keywords: Dry Matter, Organic Manure, Potato, Starch, Subsoil Loosening.



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