

A study on greenhouse green pepper cultivation

Gh. Peyvast

Dept. of Horticulture, College of Agriculture, Guilan University, Rasht.

To produce of 4 cultivars green pepper under plastic tunnel house in the Guilan province a project was conducted in a complete randomized block design with 4 treatments (local cultivars, Belcolni F1, Predi F1 and Csa'vo'zott F1) and 4 replications. The results showed that:

- 1) The yield of hybrid cultivars was 10-30% higher than of local cultivars, but the difference was not significant.
- 2) In the beginning of summer after removing the plastic of the tunnel house, the local cultivars compensated thier failure and produced 11-25% more yield compared to Csa'vo'zott F1 and Predi F1 and the difference was significant at 5% level.
- 3) Comparing average yield, it can be concluded that not only the local cultivars can be produced under the tunnel house condition, but also their yield sometimes can be increased. For example in comparing the local cultivars with Predi F1 a 15% increase in yield was observed which was significant at 5% level.
- 4) Investigation the vitamin C content in the all cultivars showed better results. The amount of vitamin C in the local cultivars was 25-50% more than other cultivars. This increment was statistically significant at 5 and 1% level.