

Investigation of the effects of black polyethylen mulch and foliar nutrition on autumn cucumber (*cucumis sativus* L.) cultivation

A.Farhadi¹, A.Kashi², M.Baballar³, A.Mortazavi Bake⁴

1,4- Isfahan. Agriculture Research Center

2,3- Karaj. Faculty of Agriculture. Dep. Horticulture Science.

This study was conducted on the effects of black polyethylin mulch and foliar nutrition on autumn cucumber cultivation with 12 treatment in the year 1998.

The treatments were included: soil cover in two levels:

1_ black polyethylen mulch

2_ without black polyethylin mulch (control) and foliar nutrition at 6 levels: urea 5000, 7500 ppm. complete fosamco nutrient 200, 4000 and 6000 ppm. control (without foliar nutrition).

Statistical design was split plot at 12 treatments and four replication. Analysis of variation showed that the yield, dry and wet weight of plant, leaf number and it's area in black polyethylen mulch was significant compared to the check.

Although black polyethylen mulch effect precocity, plant lenght and fruit but this effect was not significant.

Foliar nutrition and it's interaction with cover soil on invalued factors were not significant, althuuogh urea 7500 ppm have the most effect.