



**PREPLANT IRRADIATION OF POTATO TUBERS BY LOW-TEMPERATURE HELIUM PLASMA***Yu.A. Gordeev, N.B. Makarov\***Smolensk State Agricultural Academy, B. Sovetskaya ul. 10/2, Smolensk, 214000 Russia**\*D.N. Pryanishnikov All-Russian Scientific Research Institute of Agrochemistry, ul. Pryanishnikova 31a, Moscow, 127550 Russia*

**Summary.** The preplant irradiation of potato tubers by helium plasma was studied on three potato cultivars with different ripening times. The highest yield was obtained for the Elizaveta medium-early cultivar under continuous irradiation for 4 minutes.

**Key words:** potato, cultivars, helium plasma irradiation.