

VI Simpozijum Sekcije za oplemenjivanje organizama
Društva Genetičara Srbije i IX Simpozijum Društva selekcionera i
semenara Republike Srbije

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ISPITIVANJE DORMANTNOSTI SEMENA SUNCOKRETA

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U Laboratoriji za ispitivanje semena Instituta za kukuruz Zemun Polje, u toku redovnog ispitivanja klijavosti semena suncokreta, uočeno je kod dve partije semena veliki broj neklijalog semena. Seme je stavljeno na naklijavanje dva puta sa različitim temperaturnim režimom. U toku prvog ispitivanja seme je stavljeno na klijanje metodom između filter papira, hladjenje semena je trajalo 6 dana, energija klijanja je očitana četvrtog dana a ukupna klijavost desetog dana. Seme je naklijavano u klijalistu na 20°C sa režimom svetlosti 8 sati dan, 16 sati noć. U toku drugog ispitivanja, seme suncokreta je postavljeno na klijanje istom metodom između filter papira, hladjeno je 6 dana, energija klijanja je očitana četvrti dan a završna klijavost deseti dan. Naklijavanje je obavljeno u sobi klijalistu na naizmjeničnoj temperaturi 20<=>30°C, sa svetlosnim režimom 8 sati dan, 16 sati noć. Urađen je i TTZ - tetrazolium test. Analizom dobijenih rezultata uočeno je da na kraju prvog ispitivanja izdvojen veliki broj neklijalog semena koje je bilo sveže bez simptoma bolesti. Na kraju drugog ispitivanja taj procenat je bio manji u odnosu na prvo ispitivanje. Naklijavanje semena na većoj, naizmjeničnoj temperaturi 20<=>30°C, u toku drugog ispitivanja, smanjilo je broj neklijalog semena. TTZ testom je potvrđena vitalnost neklijalog semena.

Ključne reči: suncokret, dormantnost semena, klijavost semena

EVALUATION OF DORMANCE SUNFLOWER SEED LOTS

A great number of nongerminated sunflower seed of two lots were observed during regular testing in the Seed Testing Laboratory of the Maize Research Institute, Zemun Polje. Seeds were germinated twice under different temperature regimes. In the course of the first test, seeds were germinated between filter paper, cooling lasted 6 days, the first count was done on the fourth day, while total germination was determined on the 10th day. Seeds were germinated in the germination cabinet at 20°C with 8 h (light) to 16 h (night) regime. In the course of the second test, the method applied was the same: sunflower seeds were germinated between filter paper, cooling lasted 6 days, the first count was done on the fourth day, while total germination was determined on the 10th day. Germination was performed in the germination cabinet at the alternating temperature of 20<=>30°C, and the light regime of 8 h (light) to 16 h (night). The TTZ -tetrazolium test was also performed. The analysis of obtained results showed that a great number of nongermination, but fresh and disease-free seeds were detected at the end of the first test. The corresponding percentage at the end of the second test was smaller. Seed germination at higher, alternating temperatures of 20<=>30°C, in the course of the second test, reduced the number of nongerminated seeds. Seed viability was confirmed by the TTZ test.

Key words: sunflower, seed dormancy, seed germination