Germination and existence of hard seed of Varano and Khon Kaen Stylo after sowing

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Abstract

A field trial was conducted to study the germination and existence of hard seed of Varano and Khon Kaen Stylo after sowing, using treated (soak in 80°C for 10 minutes) and untreated seed. Seeds were planted in 3 different conditions: one in germination chamber, the others in irrigated area or without irrigated water.

The results showed that 3-9 months after planting the treated seed gave higher seed germination percentage than the untreated. (20.5 vs 6.6% of Varano and 67.6 vs 26.5% of Khon Kaen Stylo). After 9-18 months additional germination seed of 6-10% were found in treated seed of Varano but not in the treated seeds. Additional germination seed of 10-20% were found in untreated of Khon Kaen Stylo but not in treated seeds because most of the seed germinated in the first year.

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Seed sown in germination chamber show evenly emergence with less amount of dead seed than both in irrigated or without irrigated areas. After 18 months higher number of hard seed were found in Varano than in Khonkaen Stylo. Treated and Untreated of Vorano was obtained hard seed 67, 54,42 %; 28,24,34% for germination chamber, irrigated and with out irrigated area.

Treated and untreated of KhonKaen style. was obtained hard seed 61, 15; 4 % ; 8, 4, 4 % for the respective different conditions.