

Studies on Some Effects of Treatment by Mercuric Fungicides on Germination of Rice Seeds. (Supplementary Report) Three Types of Effects.

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澁谷紀起: 水銀製剤による消毒が種粒の発芽発根に及ぼす影響 (補遺) 影響の3型について

Herein are reported with the following figures the Uspulun behaviors on rice seeds: 1) promotion of the elongation of coleoptile and the growth of primary root by means of swelling the pericarp of seed (S_1 & D_1), 2) reduction of the growth of primary root by means of affecting on the endosperm near the epithelium of scutellum and its amylase (S_3 & D_3), 3) stop of the growth of primary root and the elongation of coleoptile by means of invasion into the embryo and the tissue of primary root (S_4 & D_4).

(S_2 & D_2) are the medium types of (S_1 & D_1) and (S_3 & D_3).

Table 1 Explanation of sigus

Seed	In water hour	In 0.1% Uspulun hour	Depth of water in bed
→	0	0*	shallow (S_0), deep (D_0)
→	0	24	// (S_1), // (D_1)
→	24	24	// (S_2), // (D_2)
→	48	24	// (S_3), // (D_3)
→	72	24	// (S_4), // (D_4)

(* Not in Uspulun, but in water 24h. — control)

S_0 D_0 S_1 D_1 S_2 D_2 S_3 D_3 S_4 D_4

