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A Method of Greening of Nursling Seedlings in a Nursery Chamber and Adaptability for the Transplanting Machine

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Abstract:

A method of greening of nursling seedlings raised in nursery chamber, characteristics of these seedlings and transplanting accuracy to paddy field were investigated. Rice cultivar Sasanishiki seed was sowed on two types (I, II) of culture media which had different materials and amounts of fertilizer applied. It was raised in a nursery chamber kept at 31°C for 4 days. Nursery boxes were treated by applying the piling-method, then re-piled up on the two nursery chambers' shelves at intervals of 14 cm at 30 hours after sowing. One nursery chamber was kept warm using a light-proof cover (dark section). The other was kept warm using a clear air-cap-sheet (light section). The nursery chamber of the light section was lighted by artificial light. As this treatment made leaves green, this seedling could be called "green nursling seedling". Plant height of the light section was equal to or shorter than that of the dark section, but second leaf blade length was the opposite. Seedlings in the light section were hard and elastic. Nursling seedling raised on type II medium grew more than the 6 cm in length required for the transplanting machine. Although the endosperm would be enough for 4 days' raising after sowing, the difference in culture medium influenced the seedling's characters. So, consideration of the culture medium's materials is important. Transplanting accuracy of the light section's seedlings was better than the dark's. Judging from these results, greening will improve the physical characters of seedlings.

Keywords:

Adaptability for transplanting machine, Culture medium, 4-day rice nursling seedling, Green nursling seedling, Method of nursling seedling in nursery chamber, Nursling seedling, Physical character of seedling, Supplementary illumination

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