RESEARCH NOTES

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A NOTE ON THE EFFECT OF SALT SOLUTION SPRAY ON THE GERMINATION OF SEED IN RICE

In order to hasten the maturity of paddy grain when cultivated in Kayal lands an experiment was conducted at the college of Agriculture Vellayani during the summer season of 1976. The experiment was conducted in a completely Randomised Design having 5 treatments and 4 replications. Three salt spray concentrations 10%, 15% and 20%) were used in addition to a control and water spray treatments. The rice variety *Triveni* having 95-100 days duration was used for the experiment. Salt solution and water were sprayed on the 75 day of sowing when grain setting was over. Salt solution sprayed crops exhibited visual symptoms of maturity about 12 days ahead of the control and water sprayed crop. The salt sprayed crops were harvested 12 days in advance. The effect of different treatments on the germination capacity of the seed was further assessed by keeping the seed sample for germination for 7 days. The germination percentages are 94,5, 91.00, 95.25, 89.75 and 96.20 in control, water spray, 10% salt solution, 15% salt solution and 20% salt solution respectively, (F test not significant).

It is seen that the different treatments could not effect the germination capacity of seeds significantly. So it is evident that grains collected from sait sprayed crops can be safely used as seed. **Ramiah** *et at* (1974) also reported that salt solution spray had no effect on the viability of seeds.

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10 മതൽ 20 ശതമാനംവരെ വീരുമള്ള ഉപ്പലായനി ത്രിവേണി എന്ന നെല്ല° വി തച്ച 75 ദിവസം കഴിഞ്ഞ പാടത്ത തളിച്ചപ്പോരം വിളവെടുപ്പിരള്ള സമയം 12 ദിവസം കറഞ്ഞുകിട്ടി. പ്രസ്തത ലായനി തളിച്ച പാടങ്ങളിൽനിന്നും ശേഖരിച്ച വിത്തിൻെറ ലായനി തളിക്കാത്ത നെല്ലിനെപ്പോലെതന്നെ മളക്കുന്നതായം കണ്ടു.

REFERENCE

Ramiah, S., Kasiviswalingam, P.. Dakshinamurthy, A., Janarthanan, R., and Gowder, K, R. K. 1974 Effect of salt solution spray on paddy grain maturity *Madras Agric*, J. 61, 281-284

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