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RESEARCH ARTICLE

Effect of seed priming on yield and yield components of soybean

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SUMMARY

The results exhibited that seeds primed with CaCl₂ @ 1% (T₃) and GA₃ @ 500ppm (T₄) recorded significantly higher germination percentage *i.e.* 84.67 per cent and 83.33 per cent, respectively over the untreated control T₁(76.00%). Treatment T₃ recorded higher number of initial plant stand (117 plants), followed by treatment T₄ (111 plants) and treatment T₅ (111 plants). This may likely contributed for boosting up economic yield in soybean cultivar, JS-335. The seed priming significantly influenced the seed yield and yield contributing characters of soybean. Highest value for seed yield per hectare was recorded by treatment T₃ CaCl₂ @ 1% (20.12 qt/ha) followed by treatment T₄- GA₃ @ 50 ppm (19.02 qt/ha), T₅- KNO₃ @1% (18.35 qt/ha). All other treatments recorded higher yield than untreated control (14.05 qt/ha) showing to the corresponding favourable improvement in number of pods per plant, number of seeds per pod, test weight (g), seed yield per plot (g), seed yield per Ha (q).

Key Words: Seed priming, Yield, Components of soybean

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