



## RESEARCH PAPER

# Influence of nutrient sources on growth and yield of field pea (*Pisum sativum* L. arvense)

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**Abstract :** A experiment was carried out on Influence of nutrient sources on growth and yield of field pea (*PisumSativum* L. arvense at Agriculture farm, Department of Agronomy, Mewar University, during Rabi–2022-23, The experiment was laid out in Randomized Block Design comprising with nine treatments viz., T<sub>1</sub>-25% RDF + 25% VC + 50% FYM +Rhizobium, T<sub>2</sub>-25% RDF + 50% VC+25% FYM+ Rhizobium, T<sub>3</sub>- 25% RDF + 75% VC+ 0% FYM+Rhizobium, T<sub>4</sub>- 50% RDF + 0% VC+ 50% FYM + Rhizobium, T<sub>5</sub>- 50% RDF + 50% VC + 0% FYM+ Rhizobium, T<sub>6</sub>-50% RDF + 25% VC + 25% FYM+ Rhizobium, T<sub>7</sub>- 75% RDF + 25% VC + 0% FYM + Rhizobium, T<sub>8</sub>-75% RDF +0% VC+ 25% FYM + Rhizobium, T<sub>9</sub>-Control, with three replications. The minimum days (9.08 days) was germination of seeds in T<sub>8</sub> (75% RDF +25% VC+ 25% FYM + Rhizobium), At 90 days after sowing, the highest plant height (92.83) was measured in T<sub>3</sub> (25% RDF + 75% VC + 0% FYM +Rhizobium) treatment, the lowest number of days to first flowering (44.42) was observed in T<sub>6</sub>- (50% RDF + 25% VC+ 25% FYM + Rhizobium), highest average number of pods per plant (24.75) was designated in T<sub>6</sub> (50% RDF + 25% VC + 25% FYM+ Rhizobium), days to pod set of pea., while the least number of days to pod set (63.67) was identified in T<sub>6</sub> (50% RDF + 25% VC+ 25% FYM + Rhizobium). Date collected from T<sub>4</sub> (50% RDF + 0% VC+ 50% FYM + Rhizobium) was found to have the longest pods, measuring (7.43 cm) in length, the highest number of seeds per pod (7.33) was found in T<sub>8</sub> (75% RDF +0% VC+ 25% FYM + Rhizobium) and a significant variation was observed on seed yield. The maximum yield/plot (5.73) was recorded in T<sub>6</sub> (50% RDF + 25% VC + 25% FYM+ Rhizobium).

**Key Words :** Field pea nutrient sources on growth, Yield

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