



RESEARCH PAPER

Effect of FYM, vermicompost and *Panchagavya* on yield and quality of cauliflower (*Brassica oleracea* var *botrytis* L.)

Suryavardhan Singh*, A.S. Jodha, Damini Visen, Vishal Pareek, Dhawani Sharma, Abhayraj Singh Chundawat, Chandraveer Singh and T.S. Champawat
School of Agricultural Sciences (J.R.N.R.V.U.), Dabok, Udaipur (Rajasthan) India
(Email : Suryavardhan.singh27@gmail.com)

Abstract : A field experiment on effect of FYM, vermicompost and *Panchagavya* on yield and quality of cauliflower (*Brassica oleracea* (L.) var *botrytis*)” was conducted during *Rabi*, 2023-24 at Instructional Farm, School of Agricultural Sciences, Dabok, Udaipur. The experiment comprised of nine treatments using FYM, vermicompost and *Panchagavya* either alone or in combinations which were replicated thrice in Randomized Block Design. T₁ - Control, T₂ - 100 % RDN through Farm Yard Manure (FYM), T₃ - 100 % RDN through vermicompost (VC), T₄ - 50% RDN through FYM, T₅ - 50% RDN through VC, T₆ - 50% RDN through FYM + 50% RDN through VC, T₇ - 50% RDN through FYM + 10% *Panchgavya* spray at 30 and 45 DAT, T₈ - 50% RDN through VC + 10% *Panchgavya* spray at 30 and 45 DAT and T₉ - 50% RDN through FYM + 50% RDN through VC + 10% *Panchgavya* spray at 30 and 45 DAT. Cauliflower variety Pusa Deepali was used as a test crop. It was found that maximum value of growth, yield and quality parameters viz., plant height (30.67 cm and 44.92 cm at 30 and 60 DAT), polar diameter of curd (12.32 cm) and equatorial diameter of curd (13.12 cm) yield plot⁻¹ (13.01 kg), yield hectare⁻¹ (321.31 q ha⁻¹) Further it was noted that maximum values of quality parameters viz., TSS (5.99 °Brix) and chlorophyll content in leaf (47.41 mg 100 g⁻¹) were recorded in T₉ (50% RDN through FYM + 50% RDN through VC + 10% *Panchgavya* spray at 30 and 45 DAT).

Key Words : Cauliflower, FYM, Vermicompost, *Panchagavya*

View Point Article : Singh, Suryavardhan, Jodha, A.S., Visen, Damini, Pareek, Vishal, Sharma, Dhawani, Chundawat, Abhayraj Singh, Singh, Chandraveer and Champawat, T.S. (2025). Effect of FYM, vermicompost and *Panchagavya* on yield and quality of cauliflower (*Brassica oleracea* var *botrytis* L.). *Internat. J. agric. Sci.*, **21** (1) : 73-79, DOI:10.15740/HAS/IJAS/21.1/73-79. Copyright@2024: Hind Agri-Horticultural Society.

Article History : Received : 10.07.2024; Revised : 25.10.2024; Accepted : 27.11.2024