

ENHANCE THE PRODUCTIVITY OF RIDGE GOURD (*LUFFA ACUTANGULA* L.) CULTIVATION IN NET TRELLIS SYSTEM IN BARMER DISTRICT OF RAJASTHAN

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Abstract: To test and popularize the Krishi Vigyan Kendra, Barmer-II, Gudamalami, Rajasthan recommended Enhance the Productivity of Ridge gourd (*Luffa acutangula* L.) Cultivation in Net Trellis System in Barmer District of Rajasthan, On Farm Trials (OFT's) were conducted during the *kharif* season of 2019 and 2020 in farmers participatory mode at three locations in Barmer District of Rajasthan. The experiment consisted of two treatments *viz.*, recommended practice (Net trellis system) and farmers practice (Furrow). Net trellis system had significant increase number of picking (13), fruit length (43.33 cm) and fruit weight (210 g) as compared to farmer's practice (07, 22.67 cm and 101.5 g) during both the year as well as pooled data. The two year average fruit yields of net trellis system have shown doubled production over farmers practice method. Net trellis system was recorded increase yield for 73.57% (138.06 t/ha) as compared to farmers practice (79.54 t/ha) during both the year as well as pooled data. Similarly, the net returns and B:C ratio also revealed that maximum under net trellis system during both the year as well as pooled data Rs 232790 per hectare and 3.36:1 as compared to farmers practice Rs 89913.5 per hectare and 2.30:1. Net trellis system had significant reduce the damage of pest and soil borne diseases and improve the quality of fruits.

Keywords: Ridge Gourd, Net trellis system, On Farm Testing (OFT), Yield and B:C ratio

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