

NEW VARIETIES

Co 05009 (KARAN 10)

Co 05009, also known as Karan 10, is a tall growing early maturing sugarcane variety released by the Central Variety Release Committee during 2013 for commercial cultivation in North West Zone which comprises the states of Haryana, Punjab, Western and Central Uttar Pradesh, Uttarakhand and Rajasthan. Co 05009 was selected in 2004 from the seedling progeny of the cross Co 8353 x Co 62198 raised at the Sugarcane Breeding Institute, Regional Centre, Karnal. Subsequent evaluation in successive stages in station trials at Karnal identified this clone as a Co cane (Co 05009). Later, it entered multilocation testing in North Western Zone under the All India Coordinated Research Project on Sugarcane. Based on its better performance over the zonal standards, Co 05009 was identified for release by the varietal identification committee of AICRP(S) prior to notification as a variety.

During 2009-11, Co 05009 was tested in eight locations in North Western Zone. The mean cane

yield (75.89 t/ha) and sugar yield (9.16%) of Co 05009 (mean of 2 plant crops and 1 ratoon) exhibited 20.44% and 15.51% improvement over the early standard CoJ 64 for cane yield and commercial cane sugar yield, respectively. In comparison to another standard CoPant 84211, Karan 10 showed 17.95% improvement in cane yield, 18.50% improvement in CCS yield and 0.46% improvement in sucrose%. Co 05009 is also suitable for growing under water logging areas.

Co 05009 bears long medium thin, cylindrical internodes. Leaf sheath and internode are purple in colour. Bud shape is round to ovate, auricle is lanceolate and leaf blade curvature is generally arched with U-curved apex. The clone has sparse and deciduous hairs on leaf sheath but is free from splits and bud grooves. The average fibre content in the stalk of the variety is 12.81%. Co 05009 is moderately resistant to red rot by nodal method.

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