

2006

October

Suitability of BSRI Released Sugarcane Varieties in Different AEZs of Bangladesh

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The experiment was carried out to find out performances of different sugarcane varieties in three locations viz. Serajganj under Level Barind Tract (AEZ 25), Manikganj under Young Brahmaputra and Jamuna Flood Plain (AEZ 8) and Sherpur under Old Brahmaputra Flood Plain (AEZ 9) of non-mills zone area during the 2002-2003 cropping season. Five commercial BSRI bred varieties such as Isd 16, Isd 28, Isd 29, Isd 30 and Isd 31 were included with a local variety.

Significantly Isd 16 gave the highest yield (92.36 t/ha) and millable cane (96.5 x 10³/ha) followed by Isd 31 (75.83 t/ha, 92.2 x 10³/ha) while Isd 29 produced the lowest yield (60.97 t/ha) and millable cane (70.0 x 10³/ha) at Serajganj. The highest yield (99.9 t/ha), tiller (164.9 x 10³/ha) and millable cane (109.8 x 10³/ha) were obtained from Isd 31 while the lowest (75.3 t/ha) was yielded from Isd 28 at Manikganj. The highest yield (96.9 t/ha) was produced from Isd 16 followed by Isd 30 (85.3 t/ha) and Isd 28 (85.0 t/ha) while the lowest yield (51.9 t/ha) was in local variety at Sherpur.

Among the six varieties including the local one, Isd 16 gave the highest brix percentage in all locations. All the varieties produced the maximum yield percent increase over local variety at Sherpur among the three locations while the maximum yield percent increase was found from Isd 16 and the maximum yield percent decrease was shown by Isd 29 at Serajganj. On the other hand, Isd 31 produced the maximum yield percent increase while the maximum yield percent decrease was by Isd 28 at Manikganj. The highest production and market price of gur were obtained from Isd 16 in all locations among the six varieties including the local variety.

Keywords: *Performance, sugarcane varieties, different areas.*