



RESEARCH PAPER

Effect of sowing dates on growth, yield and economics of different varieties of Indian mustard (*Brassica juncea* L.)

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Abstract : The experiment comprised five varieties of Indian mustard and four dates of sowing was carried out during *Rabi* 2011-12 and 2012-13. Maximum plant height (175.1 cm), dry matter accumulation (53.4 g/plant) and secondary branches (4.58) were observed with PBR-375 which was significantly higher than other varieties. Sowing dates also significantly affect the growth parameters except primary branches and maximum plant height (175.1 cm), dry matter accumulation (53.4 g/plant) and secondary branches (4.58) were recorded in 27 October sowing date which was significantly higher than other dates of sowing. PBR-375 resulted yield attributes, yield (2770.5 kg/ha), gross return (69264 Rs./ha), net return (38031 Rs./ha) and b: c ratio (1.49) significantly higher than other varieties of Indian mustard. Delay in sowing dates from 27 October to 10 December, decreases siliquae /plant, siliqua length, seed per siliqua and 1000-seed weight statistically. The best sowing dates in comparison of four sowing dates was appeared to be 27 October, as it produced significantly higher seed yield (2740.4kg/ha), gross return (68512 R.s/ha), net return (37383 Rs./ha) and b: c ratio (1.47) as compared to other sowing dates. The N, P K and S uptake were non-significantly affected by different varieties of Indian mustard. 27 October sowing date recorded significantly higher N, P, K and S uptake than other sowing dates of Indian mustard.

Key Words : Indian mustard varieties, PBR-375, Sowing dates, Yield, Economics

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