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In an experiment, the effect of phosphatic fertilizer on root weight, root diameter, forage yield and binding capacity of *Dichanthium annulatum* and *Cenchrus ciliaris* grasses was studied. It was revealed that root weight and binding factor significantly increased with the application of 40 kg  $P_2O_5$ /ha upto 30 cm depth. Binding factor increased by 66 per cent in case of *Dichanthium annulatum* and 37 per cent in case of *Cenchrus ciliaris*. Though effect of phosphate on forage yield was not statistically significant, there was increase in the yield of grass at P level.