



RESEARCH ARTICLE :

Effect of foliar spray of water soluble fertilizers on total dry matter production (g plant^{-1}) nutrient uptake and economics in pigeonpea

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SUMMARY : The field experiment was conducted at College of Agriculture, Bijapur, to know the effect of foliar spray of water soluble fertilizers on growth and yield of pigeonpea [*Cajanus cajan* (L.) Mill sp.] Kharif, 2013-14. The experiment was laid out with twelve treatments replicated thrice in Randomized Block Design. The data on total dry matter production of pigeonpea at harvest stage as influenced by foliar spray of water soluble fertilizers. Water soluble fertilizers had significant influences on total dry matter production at harvest. Significantly higher total dry matter production was recorded with the application of water soluble fertilizer 19:19:19 at 2% ($142.7 \text{ g plant}^{-1}$) compared to all other treatments, except the foliar spray of 0:52:34 at 2% ($129.1 \text{ g plant}^{-1}$). The lower total dry matter production was recorded in control ($86.2 \text{ g plant}^{-1}$) compared to other treatments. Foliar spray of 0:52:34 at 2% recorded higher uptake of nutrients (N, P and K) 128.3, 30.2, 45.3 kg ha^{-1} , respectively. Foliar spray of 19:19:19 at 2% recorded significantly higher net returns (Rs. 33,976 ha^{-1}) and it was followed by foliar spray of 0:52:34 at 2% (Rs. 28,518.78 ha^{-1}). Foliar spray of 19:19:19 at 2% recorded significantly higher B : C ratio (2.7) and it was on par with foliar spray of 0:52:34 @ 2% (2.5) and the least B : C ratio was recorded in foliar spray of 28:28:0 at 1% (1.7).

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