The growth analysis of soybean cultivars as affected by the application of banana pseudo-stem bokashi in Samas Coastal Land, Yogyakarta

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Abstract	Growth analysis is a method to measure plant adaptation in the growing environment. This experiment aimed to study the growth of several soybean cultivars in coastal sandy land as affected by the application of banana pseudo-stem bokashi. A pot experiment was carried out in factorial (4x12) randomized complete block design with three replications. The treatment factors included rates of bokashi (0 ton.ha-1, 20 ton.ha-1, 40 ton.ha-1, and 60 ton.ha-1) and 12 soybean cultivars (Anjasmoro, Argomulyo, Burangrang, Demas 1, Dena 1, Devon 1, Gamasugen 1, Gema, Gepak Ijo, Grobogan, Kaba, and Slamet). The results showed that the net assimilation rate, relative growth rate, and root and shoot dry weight were affected by the bokashi rates given, with varying responses according to the soybean cultivar. Demas 1 cultivar was the most adaptive cultivar in coastal sandy land based on its ability to accumulate dry matter of plants. In general, the accumulation of dry matter of roots and shoots increased with bokashi application to the optimum rate of 42.83 ton.ha-1 and 45.56 ton.ha-1, respectively, and actually decreased at higher rates.
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