

**KARAKTERISTIK MORFOLOGI DAN PRODUKSI BIOMASSA
Panicum coloratum cv. Bambatsi, *Digitaria eriantha* cv.
Premier, *Brachiaria decumbens* PADA
REGROWTH KEDUA DAN KETIGA**

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INTISARI

Penelitian ini bertujuan untuk mengetahui karakteristik morfologi, dan produksi biomassa *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, dan *Brachiaria decumbens* yang ditanam di Yogyakarta, Indonesia. Materi yang digunakan adalah tanaman *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, dan *Brachiaria decumbens*. Biji *Panicum coloratum*, *Digitaria eriantha*, dan *Brachiaria decumbens* ditanam dalam plot berukuran 1 m² dengan cara disebar, dan masing-masing tanaman mendapat pengulangan 3 kali. Produksi biomassa diambil dari produksi panen ketiga (*regrowth* kedua) dan produksi panen keempat (*regrowth* ketiga). Produksi biomassa *Panicum coloratum* cv. Bambatsi pada *regrowth* kedua yaitu 1,06 ton/ha (dalam BK), dengan kadar BK 23,29%, kadar BO 89,65% dan pada *regrowth* ketiga memiliki produksi biomassa 1,47 ton/ha (dalam BK) dengan kadar BK 24,03%, kadar BO 90,08%. Produksi biomassa *Digitaria eriantha* cv. Premier pada *regrowth* kedua yaitu 1,94 ton/ha (dalam BK) dengan kadar BK 26,72%, kadar BO 89,79%, dan pada *regrowth* ketiga memiliki produksi biomassa 2,22 ton/ha (dalam BK) dengan kadar BK 26,95%, kadar BO 90,05%. Produksi biomassa *Brachiaria decumbens* pada *regrowth* kedua yaitu 4,59 ton/ha (dalam BK) dengankadar BK 23,86%, kadar BO 89,71%, dan pada *regrowth* ketiga memiliki produksi biomassa 5,54 ton/ha (dalam BK) dengan kadar BK 24,82%, kadar BO 89,89%. Kesimpulan yang didapat dari penelitian ini adalah produksi rumput *Brachiaria decumbens* paling tinggi dibanding *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier. Produksi pada *regrowth* ketiga lebih tinggi dibanding pada *regrowth* kedua.

(Kata kunci : *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, dan *Brachiaria decumbens*, *Regrowth*, Produksi biomassa, Karakteristik morfologi.)

MORPHOLOGICAL CHARACTERISTICS AND BIOMASS PRODUCTION *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, *Brachiaria decumbens* ON SECOND AND THIRD REGROWTH

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ABSTRACT

This study aimed to determine the morphological characteristics, and biomass production of *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, and *Brachiaria decumbens* which were planted in Yogyakarta, Indonesia. The seed plants are from Cropmark Seed Company. The seeds of *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, and *Brachiaria decumbens* were planted in a plot (1m²) and each plant was repeated 3 times. Biomass production is taken from the third harvest production (second regrowth) and fourth harvest production (third regrowth). *Panicum coloratum* cv. Bambatsi biomass production in the second regrowth is 1.06 tons/ha (DM), with dry matter content 23.29%, organic matter content 89.65% and in the third regrowth has biomass production 1.47 tons/ha (DM) with dry matter content of 24.03%, organic matter content 90.08%. *Digitaria eriantha* cv. Premier biomass production in the second regrowth is 1.94 tons/ha (DM) with dry matter content 26.72%, organic matter content 89.79%, and in the third regrowth has biomass production 2.22 tons/ha (DM) with dry matter content 26.95%, organic matter content 90.05%. *Brachiaria decumbens* biomass production in the second regrowth is 4.59 tons/ha (DM) with dry matter content of 23.86%, organic matter content 89.71%, and in the third regrowth has biomass production of 5.54 tons/ha (DM) with dry matter content 24.82%, organic matter content 89.89%. The conclusion obtained from this study is *Brachiaria decumbens* have the highest production compared to *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premiere. Biomass production in the third regrowth is higher than in the second regrowth.

(Keyword : *Panicum coloratum* cv. Bambatsi, *Digitaria eriantha* cv. Premier, *Brachiaria decumbens*, Regrowth, Biomass production, Morphological characteristics.)