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PENGARUH DOSIS NITROGEN DAN KALIUM TERHADAP PRODUKSI DAN MUTU TEMBAKAU TEMANGGUNG PADA TUMPANG SISIP KUBIS - TEMBAKAU DI PUJON MALANG

(The Effect Nitrogen and Potassium Dosages on Yield and Quality of Temanggung Tobacco Grown Relay Planted with Cabbage at Pujon - Malang, East Java)

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ABSTRACT

The experiment were carried out to determine the effect of N and K on growth, yield and quality of Temanggung tobacco grown intercropped with cabbage at Pujon, Malang.

The factorial design with randomized block in five replications were used. Cabbage were planted from February-May, 1992 where as tobacco intercropped in April-September 1993. Three levels of nitrogen from Ammonium Sulphate namely 30 kg N/ha (N_1), 60 (N_2) and 90 kg N/ha (N_3), while Potassium from Potassium Sulphate of 0, 50 and 100 kg K_2O/ha were the treatment. Cabbage were fertilization at the rate of 390 kg N/ha and 780 kg P_2O_5/ha without K fertilization. The first tobacco fertilizations were done at a day after cabbage harvest when tobacco at 16 days old, the half dosages of N and full dosages of K were applied. Other half of N were applied when tobacco at 30 days old.

The nitrogen did increase top leaf length, to leaf width, fresh yield and N content of Temanggung tobacco of variety of Genjah Kemloko. The potassium did increase quality index and crop index significantly. The N and K interactions is likewise influenced significantly the quality and crop indexes.

The maximum leaf length and leaf width were obtained from 90 kg N/ha treatment, whereas highest quality and crop indexes obtained from 30 kg N/ha (N_1) and 100 kg K_2O/ha (K_1) treatments. Highest N content of 3.707% were detected from 90 kg N/ha treatments.

RINGKASAN

Tujuan penelitian yaitu mengetahui pengaruh dosis pupuk nitrogen dan kalium terhadap pertumbuhan, produksi dan mutu tembakau Temanggung pada pola tumpang sisip kubis-tembakau di Pujon, Malang.

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