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The Amount of NO_3^--N Transferred to Soil by Legumes, Forage and Seed Yield, and the Forage Quality of Annual Legume + Triticale Mixtures

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Abstract: The forage yield and quality of hairy vetch, grasspea and triticale grown alone and as mixtures of legume + triticale were investigated in field experiments conducted in the fields of the Faculty of Agriculture of Gaziosmanpaşa University in 1998-1999 and 1999-2000. The highest dry matter (10.06 t/ha) and crude protein yields (1.56 t/ha) were obtained from the mixture including 50% Line-452 of grasspea + 50% triticale. On the other hand, the highest seed yield (5.38 t/ha) was achieved from the 50% Line-38 of grasspea + 50% triticale mixture. The amount of NO_3^--N transferred to the soil by legumes (0.079 t/ha) was highest in the pure sowing of hairy vetch, whereas crude protein content was highest in the pure Line-38 of grasspea. In addition, the highest crude fiber (26.32%) and crude ash contents (17.28%), and crude fiber (2.50 t/ha) and crude ash yields (1.61 t/ha) were obtained from the 50% hairy vetch + 50% triticale mixtures. In conclusion, the 50% Line-452 of grasspea + 50% triticale mixture is recommended for dry matter and crude protein yields. The 50% Line-38 of grasspea + 50% triticale mixture produced the best seed yield and so it is recommended for this purpose in this region.

Key Words: Hairy vetch-triticale, grasspea-triticale, mixtures, feed quality

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