

# Turkish Journal of Agriculture and Forestry

Turkish Journal



of

Agriculture and Forestry

A Research on the Using Possibilitiy of the Tobacco Wastes of Cigarette  
Factory as Fertilizer

Menşure ÖZGÜVEN, Zülküf KAYA, Mehmet Asil YILMAZ, Saliha KIRICI, Sezen TANSI

Çukurova Üniversitesi, Ziraat Fakültesi, Adana-TÜRKİYE

 [Keywords](#)  
 [Authors](#)



[agric@tubitak.gov.tr](mailto:agric@tubitak.gov.tr)

[Scientific Journals Home Page](#)

**Abstract:** In this study, possibilities of using the tobacco wastes as fertilizers, after processing in cigarette industry have been investigated. Wheat and rape seed and sesame and corn were selected as test plants for winter and summer time period, respectively. For this purpose, tobacco wastes in the different rates (0, 750, 1500, 2250 and 3000 kg/da) were applied into soil at 15 cm. depth two months ago before seeding so it provides partly decomposition of the tobacco wastes. Also another plot which is fertilized at the recommended rates for each crop was included into experiment for comparing the effects of tobacco wastes with the conventional fertilization. Also, in order to monitor the effects of preceding crop on the succeeding crop, wheat and rape seed were seeded after corn and sesame, respectively. Seed yield and some botanical traits of each crop and also organic matter, available phosphorus and total nitrogen were determined in soil samples, taken from each treatment plots, referring to before seeding and after harvest. Meanwhile, crude protein in wheat and corn, crude protein and oil content in rape seed, and oil content in sesame were determined. It has been, also, investigated whether tobacco mosaic viruses have been transferred from tobacco wastes to test plants. With the application of tobacco wastes seed yields and protein rates in test plants were increased. Although tobacco wastes were contaminated with tobacco mosaic viruses, test plants had not it.

---

Turk. J. Agric. For., **23**, (1999), 43-52.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Agric. For.,vol.23,iss.EK1](#).