云南农业大学学报 2007 22 (3): 381-384 ISSN: 1004-390X CN: 53-1044/S

耕作栽培与生理生化

云南师宗县烤烟GAP基地环境重金属残留评价

杨永建[1],刘芳[2],李永忠[1],刘永军[2],赵保友[2],肖贞林[2],文国松[1]**
1.云南农业大学，云南 昆明 650201；
2.云南省烟草曲靖市公司，云南 师宗 655703

收稿日期 2006-12-15 修回日期

摘要 在对云南师宗县烤烟GAP基地土壤、水源重金属残留状况进行系统调查后，对烟区土壤、水环境质量按照国家有关标准进行综合评价。结果表明：土壤重金属单因子污染指数最小的是Pb，其次为Hg和Cd，最大的为As，污染指数达到0.544,其中1个土样存在Cd污染，2个土样存在As污染，土样超标率达到23.08%；就综合污染指数而言，土壤Pb,Hg,Cd,As分别为0.203,0.455,0.680和1.306（＞1.0），说明该基地土壤As存在轻度污染，Cd存在潜在危害,这是需要引起关注的。但随机抽取的7个水样中，仅1个水样Hg含量超标，说明该基地水质符合优质烟叶生产的需求。

关键词 烟区； 环境； 重金属； 评价
分类号 X 52 X 53

Evaluation and Grading on Heavy Metals of Flue-cured Tobacco GAP Plots in Shizong County, Yunnan

YANG Yong-jian[1], LIU Fang[2], LI Yong-zhong[1],LIU Yong-jun[2], ZHAO Bao-you[2], XIAO Zhen-lin[2], WEN Guo-song[1]

1.Yunnan Agricultural University, Kunming 650201,China;
2. Qujing Tabaacco Company, Shizong 655703, China

Abstract
Results of the investigation and analysis of the soil in flue-cured tobacco GAP plots in Shizong county showed that the single factor pollution index with Hg was the lowest，and followed by that with Pb and Cd whereas that with As was the highest, the pollution index of Cd arrived 0.544, and the Cd content of one of these soil sample excess the secondary standard, the As content of two excess the secondary standard, arrived 23.08 percent. In regard to combined pollution index，the Pb,Hg,Cd,As of soil sample arrived 0.203,0.455,0.68 and 1.306（＞1.0）, which show the As of soil in experiment exist district pollution and Cd exist potential harm，which should arouse attention from competent authorities. The results of the investigation and analysis of the water showed that the water of experiment district is good for the flue-cured tobacco leaves product.

Key words flue-cured tobacco GAP environment heavy metals evaluation

DOI:

通讯作者 杨永建