

研究简报

海南省三亚市部分果蔬重金属含量与污染评价

李福燕<sup>1,2</sup>,李许明<sup>3</sup>,吴鹏飞<sup>1,2</sup>|赵雄<sup>1,2</sup>,张冬明<sup>1,2</sup>,漆智平<sup>1</sup>

(1.中国热带农业科学院热带作物品种资源研究所,海南 儋州 571737|  
2.海南大学农学院,海南 儋州 |571737|3.海南省国土资源环境厅信息中心,海口 570203)

摘要:

对海南省三亚市74个种植点的瓜菜采样进行重金属含量检测,采用国家蔬菜卫生质量标准计算单项因子

污染指数和综合污染指数,通过内梅罗污染指数标准进行评价,同时对污染源进行分析。结果表明,三亚

果蔬整体上为清洁无污染水平,4种重金属(Zn、Cu、Pb、Cd)在果蔬中的综合污染指数为0.60,属安全

无污染水平;但不同种类的瓜菜对重金属的富集含量差异较大,各类果蔬的综合污染指数从大到小为:

叶菜类>豆类>瓜类>根茎类>茄类>水果类;叶菜类较其他瓜菜容易富集重金属且达到轻度污染,综合污

染指数为1.19;豆类和瓜类为清洁接近污染水平,综合污染指数分为0.85和0.79;其他果蔬为清洁水平

。

关键词: 重金属污染;果蔬;单因子污染指数;综合污染指数;污染源

Assessment of Vegetable and Fruit Heavy Metal Pollution in Sanya, |Hainan Province

LI Fu-yan<sup>1,2</sup>, LI Xu-ming<sup>3</sup>, WU Peng-fei<sup>1,2</sup>, ZHAO Xiong<sup>1,2</sup>, ZHANG Dong-ming<sup>1,2</sup>, QI Zhi-ping<sup>1</sup>

(1.Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences, Hainan Danzhou 571737|

2.Agronomy of Hainan University, Hainan Danzhou 571737|3. Information Center of Land Resources and Environment Department, Haikou 570203, China)

Abstract:

Vegetable and fruit samples collected from 74 planting locations in Sanya, Hainan

Province were measured and contents of heavy metals were analyzed. Single factor

pollution index and comprehensive pollution index calculated by the national vegetable

sanitation quality standards were adopted. Heavy metal pollution level was evaluated by

Nemero index. At the same time, the pollution source was analyzed. The results showed

that all vegetable and fruit produced in Sanya had reached clean and pollution-free

level. The comprehensive pollution index of four kinds heavy metals (Zn, Cu, Pb and Cd)

in vegetable and fruit was 0.60, which belongs to the security level of non-polluting.

But there were significant differences in enriched heavy metal contents among different

types of vegetable and fruit. The comprehensive pollution indexes of various kinds of

扩展功能

本文信息

▶ Supporting info

▶ PDF(470KB)

▶ [HTML全文]

▶ 参考文献[PDF]

▶ 参考文献

服务与反馈

▶ 把本文推荐给朋友

▶ 加入我的书架

▶ 加入引用管理器

▶ 引用本文

▶ Email Alert

▶ 文章反馈

▶ 浏览反馈信息

本文关键词相关文章

重金属污染; 果蔬; 单因子污染指数; 综合污染指数; 污染源

本文作者相关文章

PubMed

fruit and vegetable from big to small were as follows: green leaves

vegetable>bean>melon>rootstalk plants>eggplant>fruit. Green leave vegetables were easily

enriched to slightly polluted, and their comprehensive pollution index was 1.19. Beans

and melons were clean and close to polluted level, their comprehensive pollution indexes

were 0.85 and 0.79, respectively. Other vegetable and fruit all reached clean level.

Keywords: heavy metal pollution vegetable and fruit single factor pollution index comprehensive pollution index pollution source

收稿日期 2008-10-24 修回日期 2008-12-01 网络版发布日期

DOI:

基金项目:

中国热带农业科学院热带作物品种资源研究所研究生科研基金(YJS-2008-B003);科技基础性工作和

社会公益研究专项(2004DIB3J073);海南省重点科技计划项目(080402)和海南省自然科学基金项目

(808197)资助。

通讯作者: 漆智平,研究员,博士生导师,主要从事作物营养与施肥研究。Tel: 0898-23300597; E-mail: qzhp88@163.com

作者简介: 李福燕,博士研究生,主要从事土壤重金属污染与植物修复的研究。E-mail: liyan01080620@163.com。

作者Email:

参考文献:

本刊中的类似文章

文章评论

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text"/> 2625

Copyright by 中国农业科技导报