

- [8] 广西壮族自治区农业科学院水稻研究室: 水稻辐射育成初报, 《广西农业科学》, 1976年第1期, P31—33。
- [9] 浙江农业大学农学系: 《科技简报》(浙江情报所), 1971年, 第24期, 第5页。

A Preliminary Study on Optimum Doses for Irradiation Breeding of Rice

Wang Xibin Yi Huying Yu Hongbin

Abstract

In the present paper, the radio-sensitivities on γ -ray of 19 varieties of various type especially with the purpose of finding their optimum irradiation doses for irradiation breeding were investigated by observing the r_1 generation cell and growing effect and the r_2 generation mutation effect it was found that the round-grained nonglutinous rice is more sensitive than the long-grained, and the early long-grained is more sensitive than the middle-season one. Their LD_{50} are $1.0-1.5 \times 10^4 R$, $1.5-2.0 \times 10^4 R$, and $2.3-3.7 \times 10^4 R$ respectively.

According to count and research on the generation mutation frequency and character of Nanjing Noll and others, the optimum doses of these varieties are less than their LD_{50} respectively, depend on the various aims for seed selection by human.

《地球科学信息》简介

《地球科学信息》是中国科学院情报网网刊。其宗旨是评述地学发展趋势, 报道国内外地学研究发展动向, 介绍中国科学院各个地学研究所的学术动态和科技成果, 探讨地学文献情报工作的理论与方法, 交流信息, 增进各地学科科研单位的彼此了解, 加强联系和合作, 促进地学研究为国民经济建设服务。

《地球科学信息》属情报研究、报道类刊物。注重发表评述性、介绍性的文章, 设有学科发展、地学与四化建设、科研成果、工作经验交流、学术动态、地学机构、地学家、书刊评介、文献情报工作、情报网活动等栏目。

《地球科学信息》为双月刊。有关订购和投稿事宜, 请径与中国科学院兰州图书馆《地球科学信息》编辑部联系, 地址: 甘肃省兰州市天水路92号(新236号)。