

研究报告

油菜与紫云英间混作系统的生理生态效应

周可金¹ 邢君² 博毓红³ 桑亚松³ 吴社兰¹ 宋国良¹

¹安徽农业大学农学院, 合肥 230036; ²安徽省农技推广总站, 合肥 230031; ³安徽省肥东县农技推广中心, 肥东 234300

收稿日期 2004-10-28 修回日期 2005-4-4 网络版发布日期 接受日期

摘要

采用7种耕种方式研究油菜与紫云英间混作系统中油菜生长发育、产量形成及其效益.结果表明,育苗移栽油菜的株高、叶片大小、根颈粗、开盘度以及产量指标均明显优于免耕直播油菜;与紫云英混作的免耕直播油菜,各形态指标均优于免耕直播间作和单作油菜.耕翻后与紫云英混作的育苗移栽油菜产量比免耕直播单作油菜增产11.9%;与紫云英混作的免耕育苗移栽油菜产量与免耕直播单作相近.耕翻后与紫云英混作的育苗移栽油菜产值和效益最大,免耕直播油菜单作其次.结合产投比和土地当量比,耕翻后与紫云英混作育苗移栽油菜和与紫云英混作免耕育苗移栽油菜两种方式综合效益最高,增产增收,增加有机肥源,提高土壤肥力.

关键词 [间作,混作,油菜,紫云英,经济效益,土地利用效益](#)

分类号

Physiological and ecological effects of inter?and mixed cropping rape with milk vetch

ZHOU Kejin ¹, XING Jun ², BO Yuhong ³, SANG Yasong ³, WU Shelan ¹, SONG Guoliang ¹

¹Anhui Agricultural University, Hefei 230036, China; ²Anhui Agricultural Technology Extension Station, Hefei 230001, China; ³Feidong County Agricultural Technology Extension Station of Anhui Province, Feidong 234300, China

Abstract

The investigation on the growth, yield and benefit of rape inter- and mixed cropped with milk vetch showed that comparing with sowing rape under zero tillage, the physiological and ecological characters of transplanted rape, including its height, leaf size, root diameter, opening degree and yield were obviously improved. Under zero tillage, mixed cropping had an obvious advantage than inter- and single cropping. After tillage, the yield of transplanted rape under mixed cropping was 11.9% more than that under single cropping with zero tillage. The benefit of transplanting rape under mixed cropping with tillage was the biggest, followed by single cropping rape with zero tillage. It could be concluded that the patterns of transplanting rape under mixed cropping after tillage and zero tillage had the best physiological and ecological effects, not only increasing rape yield and income, but also improving soil fertility.

Key words

[Inter cropping](#) [Mixed cropping](#) [Rape](#) [Milk vetch](#) [Economic benefit](#) [Land use benefit](#)

DOI:

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(461KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [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](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中 包含“间作,混作,油菜,紫云英,经济效益,土地利用效益” 的相关文章](#)

▶ [本文作者相关文章](#)

· [周可金 邢君 博毓红 桑亚松 吴社兰 宋国良](#)

