

水稻纸膜覆盖种植技术节水控草效果的试验研究

Experimental study on effect of paper-mulching rice planting technology on saving water and controlling weeds

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中文摘要:

采用日本产再生纸、中国台湾产农用纸和中国大陆产普通包装用牛皮纸作为水稻种植的覆盖材料, 研究了在水稻乳芽直播和插秧2种不同种植工艺条件下纸膜覆盖节水和控制杂草效果。结果表明, 在水稻全生长期纸膜覆盖与无纸膜覆盖相比节水20.2%, 同在纸膜覆盖条件下, 乳芽直播与盘育苗插秧种植工艺相比节水7.16%, 3种纸膜节水作用差异不显著; 在水稻生长的前40 d内, 对于乳芽直播种植工艺, 纸膜覆盖与无纸膜覆盖相比减少水稗密度97.2%、稻稗密度77.9%、三稜草密度50.6%, 对于盘育苗插秧种植工艺, 纸膜覆盖与无纸膜覆盖相比减

英文摘要:

The effects of paper-mulching rice planting technology on saving water and controlling weed were studied with recycle paper made in Japan, farming paper made in Taiwan of China, and that made in Mainland of China as the covering material and with the baby seedling and general seeding. The results showed that in the whole rice growing period, it saved water by 20.2% by using the technology of paper-mulching rice planting comparing with the technology of without paper-mulching rice planting, under the same condition of paper-mulching, the technique of baby seedling direct sowing saved water by 7.16% compared with the technique of general rice transplanting and there was no notable difference among the 3 kinds of used papers. It was showed that, in the early 40 days of rice seedling growing period, using paper-mulching comparing with without paper-mulching, for the technology of baby seedling direct sowing, the weed density of Watergrass, Tarly watergrall and Bulrush were reduced separately by 97.2%, 77.9% and 50.6%, and for the technology of general rice transplanting, the above 3 kinds weeds density were reduced by 87.5%, 83.8% and 91.5% separately. It showed that there was no notable difference in the height of Watergrass, Tarly watergrall and rice seedling for whether use the paper-mulching, but there was notable difference in the height of Bulrush. It is also showed that there were better effects of Japan recycled paper made in Japan and farming paper made in Taiwan of China on controlling weed height of Bulrush than that of craft paper made in the Mainland of China.

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