

Operational efficiency of plantation with containerized seedlings of domestic species

Takeshi Yamada, Yukihiro Ochiai, Shozo Sasaki and Takayuki Ito (FFPRI)

Keywords : containerized seedlings, operational efficiency, plantation, labor-saving

Recently containerized seedlings have been spread in Japan, as a cost and labor-saving method. However influence of containerized seedlings in plantation site is not clarified yet because the technology of containerized seedlings in Japan was established only four years ago.

We investigated operational efficiency of planting works with containerized seedlings comparing with bare-root seedlings. We recorded planting works with containerized seedlings and with bare-root seedlings of Japanese cedar (*Cryptomeria japonica*) by video cameras in national forests. Video images had been analyzed to derive operational efficiency. The result shows that operational efficiency of planting works with containerized seedlings is approximately two times higher than with bare-root seedlings.