

## SUMMARY

The use of herbicides for weed control has been extensively evaluated with annual crops and to a lesser extent with forage legumes. An experiment was conducted in the experimental station of Gualaca, Panama, to evaluate weed control and selectivity of post- and pre-emergent herbicides in the establishment of *Pueraria phaseoloides* (Roxb) Benth.

Results indicated that the herbicides applied had a differential effect on the survival of Kudzu seedlings, with Oxyfluorfen (0.5 kg/ha a.i.) producing less damage on the seedlings and good control of broad-leaf and leguminous weeds. Of the pre-emergent herbicides tested, Linuron (2.0 kg/ha a.i.) negatively affected germination and survival of the Kudzu seedlings. The highest DM production of Kudzu was obtained with manual weed control, followed by the post-emergent treatment with Oxyfluorfen and a mixture of Alachlor and Acifluorfen as pre- and post-emergent herbicides.