Project Update: May 2014

Population growth rates of the two populations of *Euterpe edulis* along an altitudinal gradient determined by the matrix population model were not different from unity (λ=1). The study of local adaptation showed that the population of *Euterpe edulis* located at lower altitude is not locally adapted. The reciprocal transplants showed that seedling emergence of this population at its local site was not higher than the foreign population transplanted to this site. Moreover, the rate of seedling emergence differed according to the seed source and site. The population located at upper altitude, with a higher seed mass, showed a lower rate of seedling emergence in the two localities. At higher altitude, the rate of seedling emergence was lower for the two populations than at lower altitude. The percentage of seedling emergence differed according to the time of seed addition in the field in the two populations of *Euterpe edulis*.

Measurement of seedling of *Euterpe edulis.* Photo by Gabriel Rodrigues

Measurement of adult of *Euterpe edulis.* Photo by Gabriel Rodrigues