Past Land Use

Affects Present Ecology at LTER Sites

Nick Brokaw Luquillo LTER

ECOLOGY

A historical science

includes socio-economic causes of past land use

An integrative science

includes sociology and economics







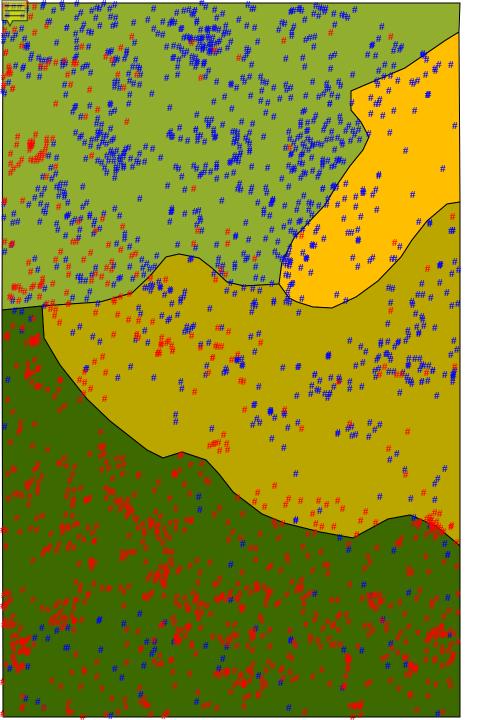


(Internat. Inst. of Tropical Forestry)





(Internat. Inst. of Tropical Forestry)



Canopy cover in 1936 Luquillo Forest Dynamics Plot El Verde, Puerto Rico

(Thompson et al.)

- Dacryodes excelsa
- # Casearia arborea

1936 % canopy

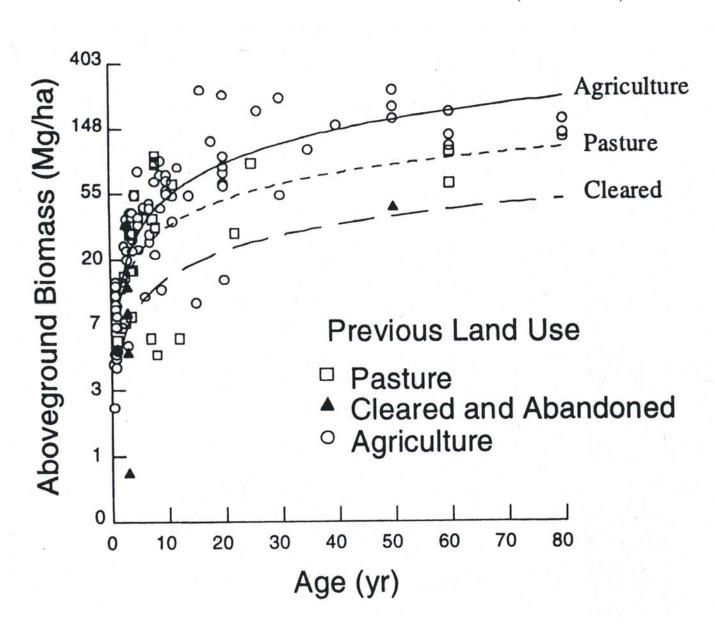


<10 20-50

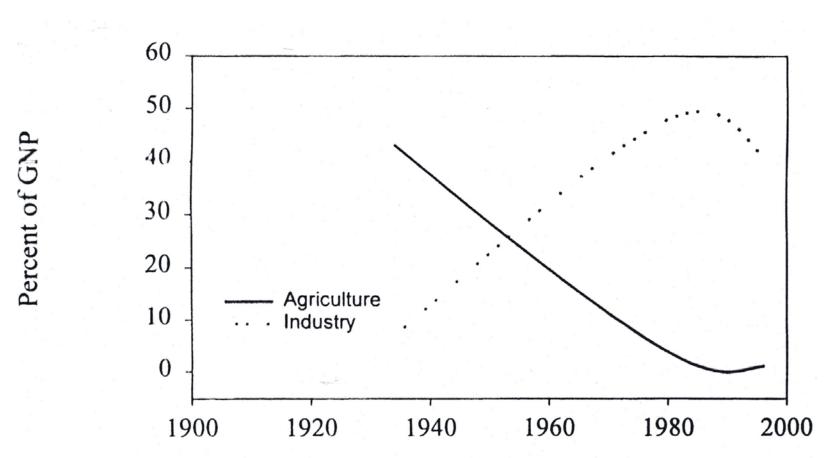


50-80





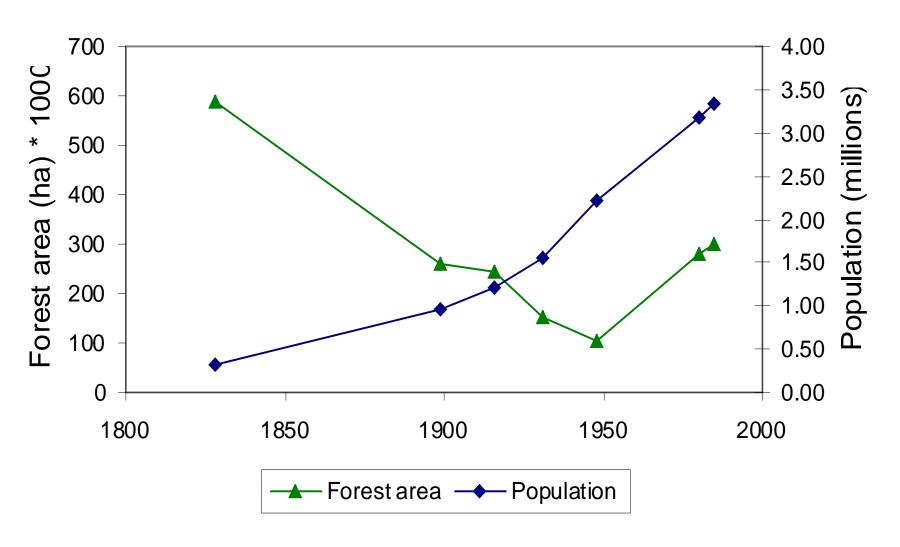
Trends in agriculture vs. industry in Puerto Rico (del Mar López et al.)





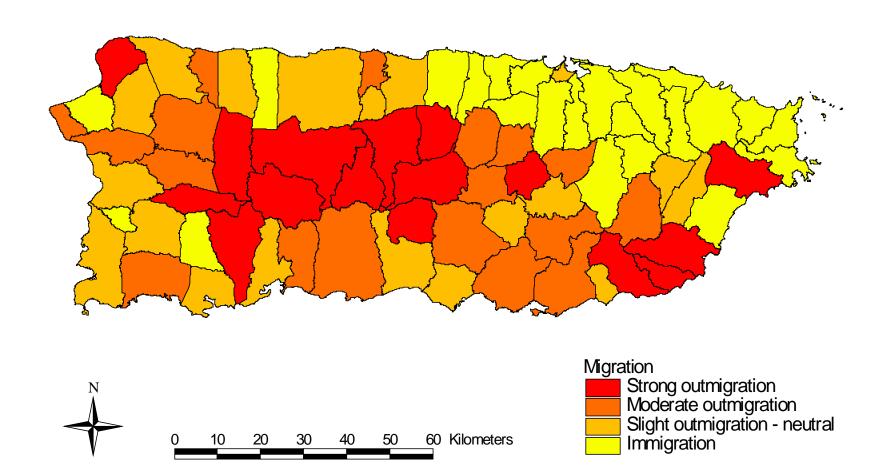
Population and forest area trends in Puerto Rico

(Birdsey & Weaver)



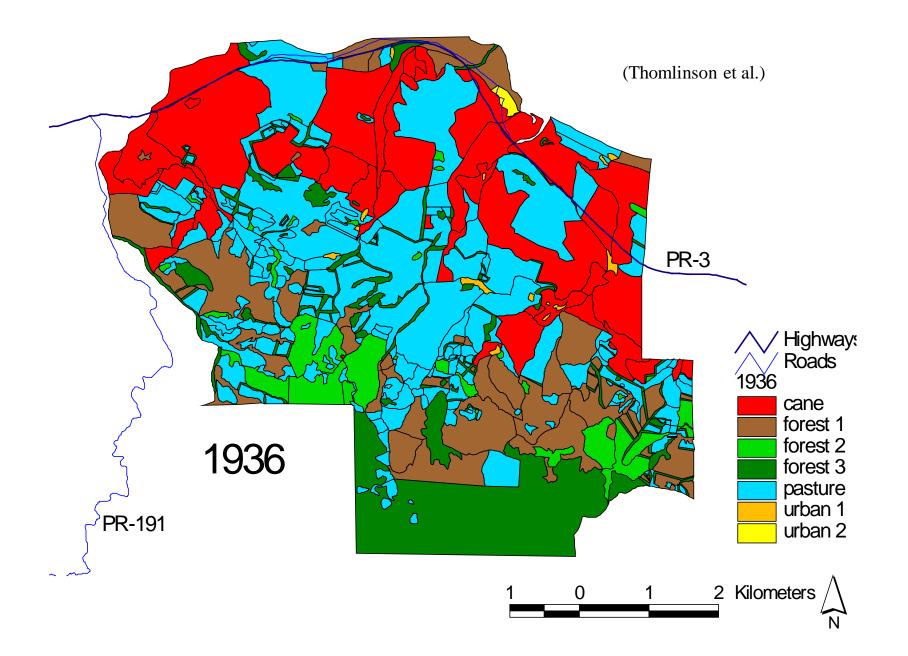


PUERTO RICO INTERNAL MIGRATION 1950 - 1990

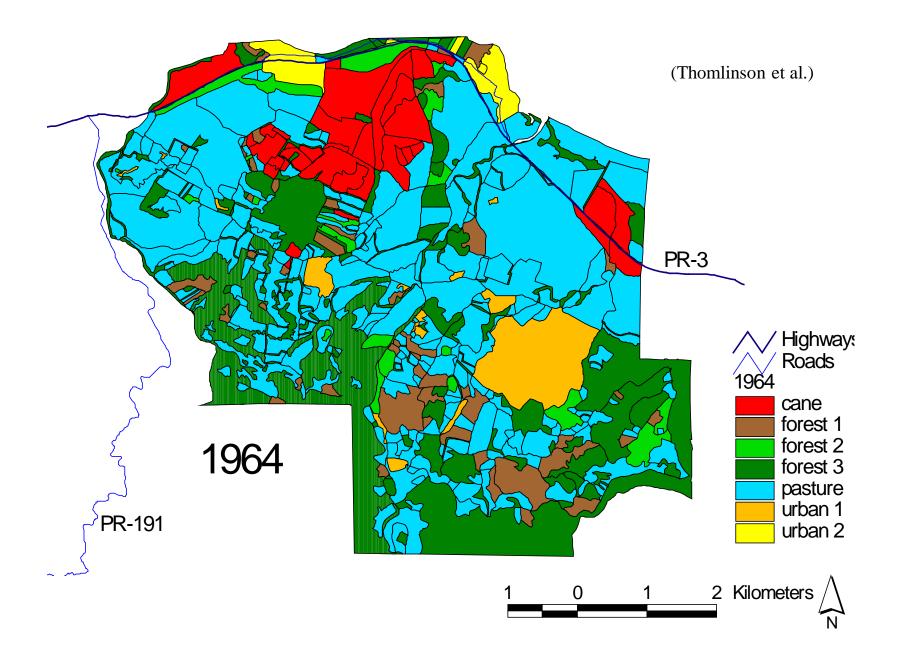




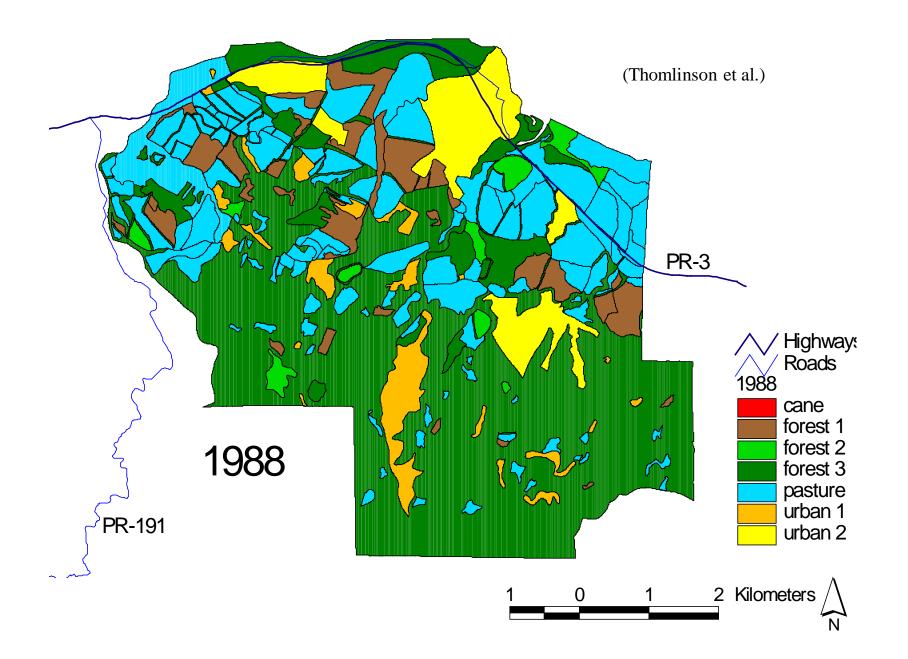








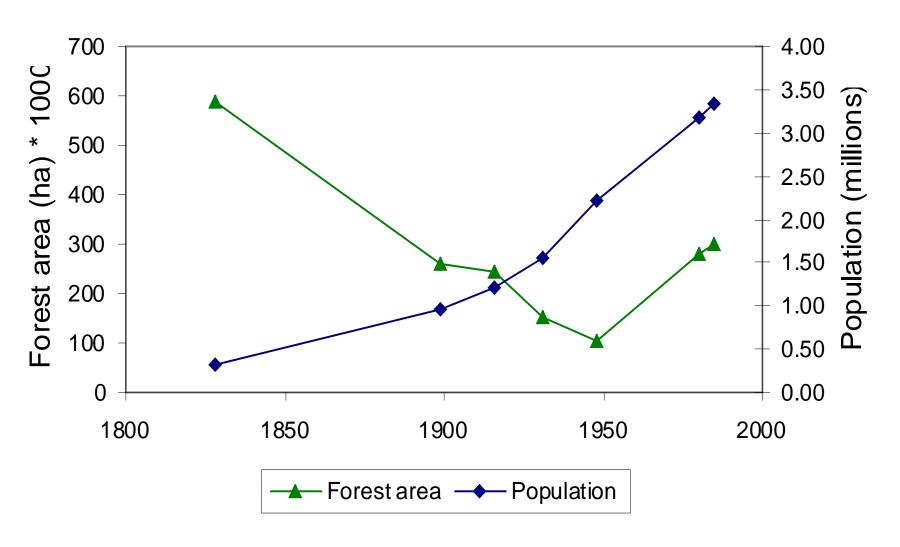






Population and forest area trends in Puerto Rico

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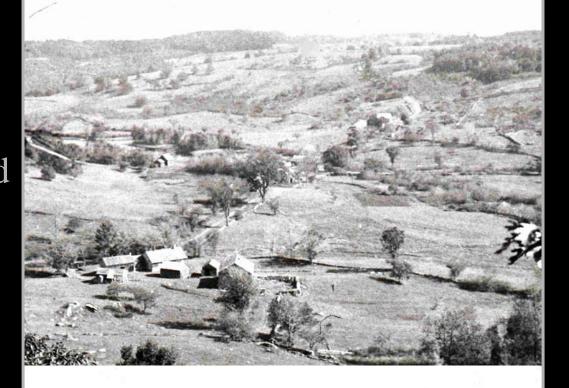




Southern New England Landscape

Past and Present

(Harvard Forest LTER)





Forest Cover and Population Trends in New England

