Grazinglands in the upper watershed are composed mainly of introduced forage grasses such as guineagrass and blue stem. Very few native legumes like *Desmodium* sp. (pega pega) perform well.

**Major concerns of grazinglands** include: 1) high stocking rates together with overgrazing, that promote soil compaction and water runoff, 2) Invasive plant species such as *Acasia* spp. and *Alizia procera*.

![Riverbank erosion due to cattle crossing.](image)

For more information visit: pr.nrcs.usda.gov

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Río Loco Upper Watershed-Steeplands

Río Loco Watershed Conservation Objective:

Improve and protect coral reefs ecosystems from non-point sources of pollution from agriculture.

Benefits:
- Reduce contaminant loads to the bay
- Reduce soil erosion and sediment deposition
- Improve filtering capacity of riparian areas

Resource Concerns
- Soil erosion
- Water Quantity and Quality
- Domestic Animals
- Plant Condition
- Fish and Wildlife (habitat fragmentation)

Upper Watershed Description
- Steepland: Average soils slope 30 to over 100%
- Soil types: Clay
- Predominant soil series: Humatas, Caguabo, Mucara
- Average Yr. Temperature: 69˚ F
- Average Yr. Rainfall: 70 inches

Coffee Farm Description

Owner: Mr. Francisco Lugo-Orengo
Address: State Road 128 Km. 16.1
Vegas Ward
Yauco, Puerto Rico

Acres: 23

Intercropped coffee (Coffea arabica) and plantains.

Other fruit trees and crops growing in the farm not at commercial rate include: pigeon peas, citrus, mango and breadfruit.

Plant residues from pruning laid at contour in a bare soil, to trap soil sediments from runoff

Coffee farm description...

Average coffee yield/acre/yr: 8 to 10 hwt
Soil Series: Consumo
Soil slope: 30 to >100%
Potential soil erosion loss/acre/yr:
- Sun grown coffee: 14 tons
- Coffee and plantain: 9.8 tons
- Coffee multistory (shade): 5.3 tons

Approximate number of farmers in Núcleo de Productores de Café de Alturas (NUPCAY) “Beneficiado” or Roasting and Grinding Plant: 367 coffee producers

Lucchetti Water Reservoir, at Rd 128 km 11. Constructed in 1952. Drainage area: 44.81 km2; the original capacity was 20.35 Mm3. In year 2001 the storage capacity was 11.88 Mm3 or a reduction of 42%, mostly due to sedimentation.