

## Soil pit description: PR12

**Images:** PR12\_01.jpg

**Soil class:** Fairchild  
**Map unit:** F  
**Location:** 80 m SE of marker 17.8, Miller Trail  
**Site position:** Knoll top on peninsular ridge  
**Slope:** 1%, linear, aspect 30°  
**Parent material:** Bohio  
**Forest structure:** Closed canopy, moderate understory, common palms  
**Litter:** 90% cover, 3 layers, thin continuous root mat  
**Outcrops:** None  
**Stones:** None  
**Cracks:** None  
**Microrelief:** None  
**Faunal activity:** Many fine & medium worm casts  
**Other surface features:** None

Horizon [cm]		Samples [cm]
0 - 5	7.5YR 3/4 (dark brown); no mottles; silty clay loam; weak medium subangular blocky breaking to moderate fine subangular blocky & medium crumb including common fine worm casts; no cutans; many fine pores; moist & friable; many fine & common medium tree roots; few small slightly hard boulders & common medium hard stones; no concretions; no charcoal; clear regular boundary to:	[0-5]
5 - 30	7.5YR 4/6 (strong brown); no mottles; silty clay loam; moderate medium & coarse subangular blocky; no cutans; many fine pores; moist & slightly friable; few coarse, common medium & common medium & fine tree roots; few small slightly hard grey boulders & common grey & red medium hard stones; no concretions; no charcoal; clear regular boundary to:	[5-15] [15-25] [25-35]
30 - 85	2.5YR 4/6 (red); no mottles; clay loam; moderate medium platy blocky breaking to moderate fine crumb; no cutans; many fine pores; slightly moist & slightly firm; few medium & fine tree roots; few small slightly hard grey boulders; no concretions; no charcoal; clear regular boundary to:	[35-45] [45-55] [55-65] [65-75] [75-85]
85 – 170+	2.5YR 4/6 (red); no mottles; clay loam; moderate medium platy blocky breaking to moderate fine & medium crumb; no cutans; many fine pores; slightly moist & friable; few fine tree roots; many small grey boulders & common grey fine hard stones; no concretions; no charcoal; clear wavy boundary to:	Too bouldery to sample

### **Correlations**

---

**Catapan (1970):** O C W Kc 4  
E D 1 0

**World Reference Base:** Ferralic Cambisol

**Soil Taxonomy:** Typic Dystrudept (-Hapludox)

**Features:** Typical of shallow loams defined by stoniness rather than solum depth. Not quite as red or bright as the deeper equivalents in Balboa. Degree of weathering is unclear due to conflicting indications from gibbsite and albite. This profile is intensively leached for a shallow loam, with both BS and EBS indicating dystric conditions in the subsoil. Subsoil pH and exchangeable K both very low.