Soil pit description: PR07

Images:	PR07_01.jpg, PR07_02.jpg
Soil class:	Harvard
Map unit:	H
Location:	2 m W of marker 2, Harvard Trail
Site position:	Midslope
Slope:	2%, linear, aspect 150^{o}
Parent material:	Caimito volcanic facies, possibly colluvial
Forest structure:	Patchy canopy, moderately thick understory, few palms
Litter:	100% cover, 5 layers, +/- continuous surface mat of fine roots
Outcrops:	None
Stones:	Few hard subrounded boulders (to 50 cm diameter)
Cracks:	None
Microrelief:	None
Faunal activity:	Common medium worm casts
Other surface features:	None

Horizon [cm]		Samples [cm]
0 - 3	7.5YR 3/4 (dark brown); no mottles; silty clay loam; weak medium subangular blocky breaking to weak fine crumb; weak patchy clayskins; common fine pores including few fine worm channels; slightly moist & friable; many fine & common medium tree roots; no stones; few fine black ferrimanganiferous concretions; no charcoal; clear regular boundary to:	[0-5]
3 - 12	5YR 4/4 (reddish brown); no mottles; silty clay loam; weak medium subangular blocky breaking to weak fine crumb, including many fine worm casts; moderate continuous clayskins; few fine medium pores; slightly moist & friable; many fine & common medium tree roots; no stones; few fine black ferrimanganiferous concretions; few fine charcoal; diffuse boundary to:	[5-15]
12 - 35	5YR 4/6 (yellowish red); no mottles; silty clay loam; weak medium subangular blocky breaking to weak medium-coarse crumb, including many fine worm casts; moderate discontinuous clayskins; common fine pores; slightly moist & friable; common fine & medium tree roots; few fine grey hard stones; few fine & medium black ferrimanganiferous concretions; no charcoal; diffuse boundary to:	[15-25] [25-35]
35 - 45	4YR 4/6 (red); no mottles; silty clay loam; moderate medium subangular blocky breaking to moderate fine & medium crumb; weak patchy clayskins; many fine pores; slightly dry & slightly firm; few medium & fine tree roots; common fine to very coarse patches slightly hard orange weathered rock; few medium black ferrimanganiferous concretions; no charcoal; diffuse boundary to:	[35-45]
45 - 105	2.5YR 4/6 (red); no mottles; silty clay loam; strong medium subangular blocky breaking to moderate fine crumb; weak patchy clayskins; common fine pores; slightly dry & slightly firm; few fine & medium tree roots; few fine patches soft orange weathered rock; no concretions; no charcoal; clear regular boundary to:	[45-55] [55-65] [65-75] [75-85] [85-95] [95-105]
105 - 155	2.5YR 4/6 (red); no mottles; clay loam; strong medium- coarse subangular blocky breaking to moderate fine-medium crumb; weak continuous clayskins; few fine pores; slightly dry & firm; few fine tree roots; many medium stones & boulders fine patches soft orange & reddish hard & slightly hard rock; few fine & medium black ferrimanganiferous concretions; no charcoal:	[105-115] [115-125] [125-135] [135-145] [145-155]
155 - 170	2.5YR 4/6 (red); no mottles; clay loam, slightly moist & firm; no stones	None
170 - 190	2.5YR 4/6 (red); no mottles; clay loam; slightly moist & firm; many coarse patches soft orange weathered rock	None
190 - 225	2.5YR 4/6 (red); no mottles; clay loam; slightly moist & firm, few fine patches soft orange weathered rock	None
225+	Soft – slightly hard orange weathered rock	None

Correlations

Catapan (1970):	O X W Lf 1 E A 1 0
World Reference Base:	(Chromic Luvic) Eutric Ferralsol
Soil Taxonomy:	(Hapludalfic) Typic Eutrudox
Features:	Example of deep Harvard, but subsoil is firmer & more compact than in most augerings. Parent material may be truly mafic, as no quartz was found. Hand textures are mostly fine loam, and give little indication of argillic, although there are weak and patchy clayskins. EBS indicates that this soil is eutric throughout.