Table 1. Soil Morphology

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| Depth | Horizon | Munsell Color | Texture Class | Coarse Fragments | Structure | Pores | Roots | Boundary | Redoximorphic Features | Notes |
| INM-3: Very-fine, subactive, non-acid, kaolinitic, isohyperthermic Typic Kandihumult. 0.142503S, 34.424982 E, 1347m, Kisumu - Busia Nayabeda Madea Shopping Center 300m N, Crop Field |
| 0-19 | Ap | 2.5YR 2.5/4 | c | - | 2CSBK parting to  | 3VF, 1F | 2VF/2F | CW | - | - |
| 19-60 | Bo1 | 2.5YR ¾ | c | 1-2% Quartz Gravel | 3MSBK parting to 2FSBK | 1F, 2C (termites) | 1VF/1F | DS | - | Clay skins 1 chip darker |
| 60-110 | Bo2 | 2.5YR 3/4 | c | 1-2% Quartz Gravel | 2MSBK parting to 2VFSBK | 2F/1C (termites) | 1VF | DS | - | Clay Films |
| 110-171 | Bo3 | 2.5YR 3/4 | c | 1-2% Quartz Gravel | 2VCSBK parting to L/1VFSBK | 1F (termites) | - | AS | - | Clay Films |
| 171-194 | Bo4 | 2.5YR 3/4 | gr-c | 20% Angular quartz gravel | 2MSBK parting to L/1VFSBK | 1VF | - | - | 15% Mn Concentrations 2-6mm, 3/N Gley 1, 10% 7.5YR 5/8 & 6/8 Fe coatings on coarse Frags | 2-6mm Fe-Mn nodules, Fe coatings on CF, in rotten CF |
| INM-2: Very-fine, subactive, non-acid, kaolinitic, isohyperthermic Typic Kanhapludalf. 0.143353S, 34.403997 E, 1334m, Cidada Village, Crop Field The Mn nodules here are not very cemented @ INM-3 most cemented, then CT-1Very little termite activity here compared to other sites. |
| 0-23 | Ap | 7.5YR 3/4 | c | - | 2M-C SBK (cloddy) parting to L/1FGR | 3VF-1F (1M 5% - Termites?) | 2VF-1F | CS | - | cracks few 6-8 cm horizontal, 5cm vertical |
| 23-91 | Bo1 | 5YR 4/6 | c | - | 3M-C SBK parting to 1VFSBK | 3VF, 2F, 2M (< 5% termites?) | 2VF-1F | DS | - | clay cutans 20-30cm cracks vertical common, 10-20 cm horizontal |
| 91-135 | Bo2 | 2.5YR 4/6 | c | - | 3M-C SBK parting to 1VFSBK | 2VF, 1F, 1VC (termites 5%) | 1VF | DS | Few Mn Coatings | few Mn nodules (soft), clay cutans, cracks same |
| 135-174 | Bo3 | 2.5YR 4/8 | c | < 5% GR | 2MSBK parting to L | 2VF, 1F | - | - | Few Mn Coatings | few VF Mn nodules (soft) cracks a little less |
| CT-1: Very-fine, subactive, non-acid, kaolinitic, isohyperthermic Typic Kanhapludalf. 0.129197S, 34.404993 E, 1345m, Nayabeda, Near Nayabeda Primary and Secondary Schools, 10 years uncultivated (this spot) |
| 0-8 | Ap | 7.5YR 4/4 | c | - | 2MSBK (cloddy) parting to L | 3VF | 2VF-2F | AS | - | Surface sealing |
| 8-40 | Bo1 | 5YR 3/4 | c | - | 3C-VC SBK parting to 2MSBK | 3VF 2F 1VC 20% (termites) | 2VF-2F | GS | - | cracks, 20cm vertical, 4-5 cm horizontal |
| 40-91 | Bo2 | 2.5YR 4/6 | c | - | 3M-C SBK parting to 2FSBK | 1M-C (termites), 10% 3F | 1F | DS | - | cracks, clay skins 30-50 vertical cm, 10% horizontal common |
| 91-168 | Bo3 | 2.5YR 4/6 | c | < 5% quartz GR | 3VCSBK-3MSBK parting to L/1VFSBK | 2VF, 1M | 1VF | DS | - | few clay skins, 30-50 vertical cm, few horizontal 4-5 cm |
| 168-195 | Bo4 | 2.5YR 4/6 | gr-c | 20% quartz GR | 2MSBK parting to L/1VFSBK | 1F, 1M | - |  | 10% Fe-Mn nodules | No cracks |