General Guide to Soil Orders

All soils Organic soils Histosols Oa, e, i No diagnostic horizons

_ Mineral Soils_

Soils with developed profiles associated with certain climate-vegetation zones Soils without well developed profiles or soils with Unique parent materials Orders Entisols Inceptisols Vertisols Andisols Aridisols Gelisols Mollisols Alfisols Ultisols Oxisols Spodisols Key Undeveloped Weakly High in Volcanic Arid Permafrost Temperate Temperate Forested Tropical Humid Factors Developed expandable ash climate grasslands deciduous highly climate, climate, weathered clays forest / extremely sandy acidic weathered savanna parent materials, acidic Common Α Variable Α Variable A – thick Α А Α, А А А С Master Bw, g, k, x Bk, q, t, Bw, g, t, k E (10yr5/1) Е Во Ε, Bss 0 Horizons С С Bf, ff, jj Bt, tx С Bh, hs, s, С Bt, tx y, z No B Cf, ff, jj С С х С present Or B is С sandy Ochric Varies Ochric Varies mollic Ochric Ochric Ochric Ochric Common Ochric Melanic Epipedon Varies Varies High base Kandic or Common None Cambic Varies Varies Varies – Oxic Spodic & Diagnostic low base often none, argillic Subsurface cambic, argillic Albic horizon calcic, Albic argillic, Albic often natiric often Mont. Mont. Hemitite Associated Parent Parent Parent Parent Mont. Mont. Kaolinite dependent Smectite dependent Verm. Limonite Clay dependent dependent Verm. Goetite Dominant Pedogenic Process

Soils with a unique geology

Geographically specific soils