Malaysian Soil Series classified by USDA Soil Orders, Sub-orders and Great Groups

Order	Sub-order	Great group	Soil Series	
S	Fibrists	Haplofibrists	Anderson, Changkat Lobak Igan, Mukah, Salleh	Peat soils require an intensive water management
<mark>sto</mark> sols	Hemists	Haplohemists	Bakri, Bayas, Pak Bong	system. Palms should be planted using the hole-in- hole technique. Cu and Zn usually required. Lime required to increase N release from organic matter.
		Sulfihemists	Arang Nipis	
	Soprieto	Haplagaprista	Linggi Tolok Buloh	
Ξ	Saphsis	Hapiosaprists		
		Suifisaprists	Penor	
Entisols	Aquents	Endoaquents	Binjai, Guan	Aquents must be drained before planting to oil palm. After drainage Aquents become Inceptisols.
		Fluvaquents	Guan, Kalibong	
		Sulfaguents	Bergosong, Kranji, Linau	
	Fluvents	Udifluvents	Tenghilan	Too localized (riverbanks) for oil palm cultivation
	Orthonto		Paku Bangalan Pamuan Sabat Saduau Tama	Too shallow for oil palm
	Orthenta	odorments	nong Telemong	
	Psam-	Quartzipsamments	lambu	Too sandy for oil palm
	ments		Daring Dampin Cungai Bulah Haukan	
		Oulpsainments	Baging, Rompin, Sunger Bulon, Osukan	
isols	Udepts	Distrudepts	Benuou, Kelawat, Lintang, Luasong, Nangka, Ni-	Well drained soils with high yield potential (>35 t
			bong, Fenanibang, Sanadon	FFD/ 11a).
		Eutrudepts	Bombalai, Bulanat	
	Aquepts	Suffaquepts	Guan, Parit Botak, Sedu	Water management system required to prevent the reduction of soil pH due to the oxidation of oxidation
pt		Sulfic Endoaquepts	Bijat, Carey, Jawa, Metah, Mundai, Telok, Tongkang	
e e				of jarosite. Also known as acid sulphate solls
ŭ		Typic Endoaquepts	Bangawat, Bernam, Briah, Kakai, Kluang, Koyah, Manik, Perepat, Sabrang, Selangor	Clay soils, often derived from Entisols. Eutrudepts are more fertile than Distrudepts. High soil fertility status and yield potential (>35 t FFB/ha). Water management required.
10	Rendoll	Haprendolls	Loc Sambuang	Shallow mollic horizon (containing a large concen-
slo				tration of organic matter) overlying limestone. High
is				soil pH.
Σ				
Oxi sols	Udox	Acrudox	Jerangau, Kampong Kolam, Kuantan, Prang, Sega-	Structure better than Ultisols due to presence of Fe
			mat, Senai, Sungei Mas, Table	and AI oxides that impart reddish colours to the soil profile. Well drained but prone to drought due to high
		Eutrudox	Sagu, Sungei Mas	
		Hapludox	Apas, Gading, Jarangan, Katong, Malacca,	soils are more fertile and less acid than Acrudox
			Munchong, Nobusu, Patang, Pinianakan, Tandak,	soils. Kandiudox soils are susceptible to compaction and are difficult to manage when the surface horizon has been eroded and the kandic clay layer exposed. Empty fruit bunch mulching improves structure and
			Tarat	
		Kandiudox	Batang Merbau, Bungor, Chat, Harimau, Lanchang, Rengam, Tai Tak, Ulu Dong	
				fertilizers. Install soil conservation measures, espe-
				cially on sleep slopes.
sor	Humod	Haplohumods	Baiayo, Buso, Karamatoi, Miri, Rhu Tapai, Rudua,	Developed from beach ridges, sandy riverine depos-
s p	0.4		Silantek	are likely to be lost due to leaching due to sandy soil
o o	Orthod	Haplorthods	Sibuga, Silimpopon, Stoh	texture. Poor water availability under drought condi-
dg				tions. Increase the number of split fertilizer
	Aquults	Endoaquults	Inanam labil	Ultisols are easily damaged due to compaction and erosion. Mechanization should therefore be imple- mented with great care. Use low flotation tyres on vehicles used in the field. Higher fertility status than
		Kandiaguulta		
		Kanhaalaa		
		nannaplaquudults		
		Paleaquults	Inaanam/poor, Jelutong	Oxisols. Empty fruit bunch mulching improves
	Udults	Hapludults	Asahan, Batu Anam, Dagat, Durian, Kumansi, Pohoi	umansi, Pohoi structure and nutrient holding capacity. Large response to K and P fertilizers. Install soil conservation measures (platforms, terraces), especially on steep slopes. Holyrood, i, Lelau, Mer-Tak, Tavy, , Kuala Brang, Kuala Brang,
		Kandiudults	Batang, Bungor, Gajah Mati, Harimau, Holyrood,	
isols			Kasau, Lambak, Lanchang, Langkawai, Lelau, Mer-	
			bau, Rengam, Serdang, Sitiawan, Tai Tak, Tavy,	
Ĭ			Tebok, Tungau, Ulu Dong	
		Kanhapludults	Apek, Gong Chenak, Kawang, Kening, Kuala Brang,	
			Marang, Nami	
		Paleudults	Abok, Bedup, Berkenu, Inanam/imp, Kapilit, Kinabu-	
			tan, Kulai, Lumisir, Merit, Musang, Nyalau, Stom	
		Plinthudults	Batang, Chuping, Sipit	
		Rhodudults	Jakar, Sarekei	
sla	Aqualfs	Endoaqualf	Batu Hitam, Buran	Higher soil fertility status than Ultisols. Easily dam-
isc	Udalfs	Hapludalfs	Kabuloh, Karabungan	aged by compaction. Mechanization should there-
LE I		Paleudalfs	Darau, Kobovan	tion twos on vehicles used in the field
4	-			
slo	ivielanu-	i ypic melanudands		High P fixation capacity. Excellent physical proper-
	uanus			ties (water holding capacity, oil palm root develop-
lis				
ů				
▼				
		Wetlands	Coastal clay	Inland soils
Gelisols (found only in the arctic), Aridisols (found only in arid climates), and Vertisols (only cultivated with rice in Malaysia) have not been included.				