

PROVISIONAL DESCRIPTION OF SOIL PROFILES FROM THE MERIDA REGION

- E 1    Classification:                  Typic Haploxeralf  
       Location:                      2½ km SE of Valverde de Merida. Elevated part  
    in the alluvial flat of the river Guadiana  
       Parent material:                Loamy river deposits  
       Profile:                         A1  0- 20 cm. Brown (10YR 5/3, dry) sandy  
   loam; weak blocky/massive  
   AB  20- 80 cm. Pale brown (10YR 6/3, dry), loamy  
   sand; massive; fibers of loam  
   at 35, 43, 55 cm.  
   B2  80-130 cm. Brown (10YR 3/4, moist) silt  
   loam; moderate blocky; very  
   porous; many cutans  
   BC  130-145 cm. same as B2, but less clayey;  
   less cutans
- E 2    Classification:                  Typic Palexeralf  
       Location:                      1½ km W of Torremegia. Nearly level plain  
    (glacis).  
       Parent material:                Very stony heavy clay (rana deposit), thick-  
   ness 70 cm; underlain by "arkose".  
       Profile:                         Ap  0-20 cm.    Dark yellowish brown (10YR 4/4)  
   silt loam; weak blocky,  
   structureless  
   A2  20-30 cm    Dark yellowish brown with dark  
   brown and brown mottles, silt  
   loam; moderate blocky  
   B1  30-40 cm.    Dark brown (7.5YR 4/4) with  
   mottles of reddish brown and  
   dark red, silty clay, many  
   stones; pressure faces frequent  
   B2  40-60 cm.    Colour same as B1, clay;  
   strong angular blocky; pressure  
   faces frequent  
   B3  60-70 cm    Brown (10YR 4/6) clay; strong  
   angular blocky, many pressure  
   faces  
       R    70+                            Colour very heterogeneous, dark  
   brown dominant, clay; strong  
   angular blocky, many pressure  
   faces

E 3 Classification: Typic Chromoxerent  
Location: 4½ km SWS of Torremegia. Depressed part in gently undulating landscape  
Parent material: Miocene clay  
Profile: Ap 0-10 cm. Dark reddish brown (5YR 3/6), clay; granular and fine subangular blocky; very plastic, very sticky, very friable moist, hard dry.  
A1 10-70 cm. Dark reddish brown, clay; fine angular blocky; many pressure faces, some CaCO<sub>3</sub> concretions. At 50-70 cm many paralleiped structural elements, slickensides prominent  
AC 70-90 cm. Dark reddish brown with light reddish brown and dark red mottles, clay; many slickensides and paralleiped structural elements, many CaCO<sub>3</sub> concretions  
C 90+ Dark reddish brown, yellowish red, dark red and reddish yellow mottled clay; very heterogeneous strong fine angular blocky

E 4 Classification: Vertic Palexeralf  
Location: 1 km W of Torremegia. Middle slope in a gently undulating landscape.  
Parent material: "Arkose"  
Profile: Ap 0-12 cm Dark brown (7.5YR 4/4) sandy loam; weak platy/massive  
A1 12-18 cm Dark brown, sandy loam, weak subangular blocky; porous  
B1 18-26 cm Dark brown (7.5YR 3/4) with dark reddish brown mottles, clay; very coarse prismatic; extremely firm moist; clay skins along channels and ped faces  
B2 26-52 cm Same as B1, more clayey and more clay skins  
B3 52-75 cm Dark brown (7.5YR 4/6) clay; firm moist, hard dry; some paralleiped structural elements; pressure faces  
BC 75+ Strong brown, clay; with many whitish fragments of parent material



- E 8    Classification:    Typic Haploxera1f  
Location:                1 km NW of Don Alvaro. Middle slope in a gently undulating plain  
Parent material:        Solifluction masses derived from weathered granodiorite  
Profile:                Ap 0-26 cm. Brown (7.5YR 4/0), gravelly loamy sand; weak subangular blocky/loose; slightly sticky, slightly plastic, very friable moist  
                              B2 26-45 cm Yellowish red (5YR 4/8), gravelly sand; moderate subangular blocky; many clay skins in pores and on ped faces  
                              BC 45+        Yellowish red heterogeneous mixture of clay and fragments of weathering parent material.
- E 9    Classification:    Typic Haploxera1f  
Location:                2 km NW of Don Alvaro. Lower part of slope in gently undulating landscape  
Parent material:        "Spillite"  
Profile:                Ap 0- 8 cm    Yellowish red (5YR 4/4), gravelly sandy loam; crumb to fine subangular blocky; slightly plastic, slightly sticky, friable moist; many very fine pores  
                              A1 8-14 cm    Yellowish red, gravelly sandy loam; fine subangular blocky; common fine pores  
                              AB 14-26 cm    Yellowish red, gravelly sandy loam; fine subangular; clay skins along large structural faces  
                              B2t 26-30 cm    Dark reddish brown (5YR 3/6) gravelly loam; strong subangular blocky; many fine pores  
                              BC 30+        Same as B2t, many weathering stones.

- E 11    Classification:    Entic Calcic Xerochrept  
Location:                6 km W of Torremegia. Higher part of slope in gently undulating landscape  
Parent material:        Miocene clay  
Profile:                 Ap 0-6 cm    Yellowish red (5YR 4/6), sandy loam; weak crumb; massive crust on top; plastic sticky, very friable moist, hard dry; many fragments of CaCO<sub>3</sub>.  
                              Cca 6+        Pink, dull brown and brown calcareous silt, very heterogeneous, weathered parent material.
- E 12    Classification:        Typic Chromoxerert  
Location:                4 km NE of Merida. Lower part of slope in gently undulating landscape.  
Parent material:        Diorite  
Profile:                 Ap 0-12 cm    Dark reddish brown (2.5YR 3/3) clay; crumb to weak subangular blocky; very plastic, very sticky, very friable moist, hard dry  
                              A1 12-55     Dark reddish brown (2.5YR 3/3) clay; moderate fine angular blocky; many slickensides, parallelepiped structural elements, pressure faces  
                              AC 55-70     Same as A1, with red mottles  
                              C 70+        Yellowish red, reddish yellow, bright reddish brown, dark reddish brown mottled clay; concretions of CaCO<sub>3</sub>, pieces of diorite.