

TABLE 6.—Interpretations of engineering properties of the soils

[An asterisk in the first column indicates that at least one mapping unit in this series is made up of two or more kinds of soil. The soils in such mapping units may have different properties and limitations, and for this reason it is necessary to follow carefully the instructions for referring to other series that appear in the first column of this table. Absence of entry in a column indicates that characteristics are too variable for the material to be classified]

Soil series and map symbols	Degree and kind of limitations for—						Degree and kind of limitations for—Continued		Suitability as source of—		Soil features affecting—		
	Septic tank absorption fields	Sewage lagoons	Shallow excavations	Dwellings without basements	Sanitary landfill	Local roads and streets	Pond recovery areas	Dikes, levees, and other embankments	Roadfill	Topsoil	Drainage for crops, pasture, and hay	Irrigation	Grassed waterways
Brundage: BRA	Severe; percs slowly.	Severe; floods.	Moderate; wet.	Severe; floods.	Moderate; wet.	Severe; low strength, piping.	Slight	Moderate; low strength, piping.	Poor; low strength.	Fair; thin layer, too clayey, excess salt.	Percs slowly, wet.	Excess salt, percs slowly.	Excess salt, percs slowly.
Byzant: BYB	Slight	Moderate; seepage.	Slight	Slight	Slight	Moderate; low strength.	Moderate; seepage.	Moderate; low strength, piping.	Fair; low strength.	Fair; thin layer.	Not needed	Seepage, slope	Droughty.
Catarina: CAB	Severe; percs slowly.	Moderate; slope.	Severe; too clayey.	Severe; low strength, shrink-swell.	Severe; too clayey.	Severe; low strength, shrink-swell.	Slight	Moderate; low strength, shrink-swell.	Poor; low strength, shrink-swell.	Poor; excess salt, low clayey.	Excess salt, percs slowly.	Excess salt, percs slowly, slow intake.	Excess salt, percs slowly.
Cogita: CIB, COA, COB, CIB,	Severe; depth to rock.	Severe; depth to rock.	Severe; depth to rock.	Moderate; depth to rock.	Moderate; depth to rock, seepage.	Moderate; low strength.	Severe; depth to rock.	Moderate; this layer.	Fair; low strength.	Fair; too clayey.	Depth to rock	Rooting depth, slope.	Favorable.
Dart: DAB	Severe; percs slowly.	Slight	Severe; too clayey.	Severe; low strength, shrink-swell.	Severe; too clayey.	Severe; low strength, shrink-swell.	Slight	Moderate; shrink-swell.	Poor; low strength, shrink-swell.	Fair; too clayey.	Not needed	Excess salt, slow intake.	Excess salt.
Dart: DRA	Severe; depth to rock.	Severe; depth to rock.	Moderate; depth to rock.	Moderate; depth to rock.	Severe; depth to rock.	Moderate; depth to rock.	Severe; depth to rock.	Severe; thin layer.	Poor; depth to rock.	Fair; too clayey.	Not needed	Excess lime, rooting depth.	Excess lime, rooting depth.
Elkton: EGA, EGB, EDA	Moderate; percs slowly.	Moderate; seepage.	Moderate; too clayey.	Moderate; low strength, shrink-swell.	Moderate; too clayey.	Severe; low strength.	Moderate; seepage.	Moderate; piping.	Poor; low strength.	Fair; excess lime, low clayey.	Not needed	Favorable	Favorable.

TABLE 6.—Interpretation of engineering properties of the soils.—Continued

Soil series and map symbols	Degree and kind of limitations for—						Degree and kind of limitations for—Continued		Suitability as source of—		Soil features affecting—		
	Septic tank absorption fields	Sewage lagoons	Shallow excavations	Dwellings without basements	Sanitary landfills	Local roads and streets	Pond reservoir areas	Dikes, levees, and other embankments	Roadfill	Topsoil	Drainage for crops, pasture, and hay	Irrigation	Grassed waterways
EnA, EnB	Slight	Moderate: seepage.	Moderate: depth to rock.	Moderate: low strength, shrink-swell.	Moderate: too clayey.	Severe: low strength, depth to rock.	Moderate: seepage.	Moderate: piping.	Poor: low strength.	Poor: excess salt, too clayey.	Excess salt	Excess salt	Excess salt.
Jinnes: JZD	Severe: depth to rock.	Severe: depth to rock, small stones.	Moderate: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: thin layer.	Good	Poor: excess lime, small stones.	Not needed	Droughty, rooting depth, seepage, slope.	Droughty, rooting depth, slope.
Lagleria: LqA, LqB	Moderate: pores slowly.	Moderate: seepage.	Slight	Slight	Slight	Moderate: low strength.	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Favorable	Fast intake	Favorable.
Laredo: LrA, LrB	Moderate: pores slowly.	Moderate: seepage.	Slight	Moderate: low strength.	Moderate: too clayey.	Severe: low strength.	Moderate: seepage.	Moderate: piping.	Poor: low strength.	Fair: too clayey.	Favorable	Favorable	Favorable.
Maver: MvB, MvC	Moderate: pores slowly.	Moderate: seepage.	Moderate: too clayey.	Moderate: shrink-swell.	Moderate: too clayey.	Severe: low strength.	Severe: seepage.	Moderate: piping.	Poor: low strength.	Good	Not needed	Favorable	Favorable.
Maverick: MvB, MvC	Severe: pores slowly.	Moderate: seepage.	Severe: too clayey.	Severe: low strength, shrink-swell.	Severe: too clayey.	Severe: too clayey, shrink-swell.	Slight	Moderate: shrink-swell, unstable fill.	Poor: low strength, shrink-swell.	Poor: excess salt, too clayey.	Pores slowly.	Excess salt, slow intake, slope.	Excess salt, slope.
Merceda: MNA	Severe: pores slowly, floods.	Severe: floods.	Severe: too clayey, floods.	Severe: low strength, shrink-swell, floods.	Severe: too clayey, floods.	Severe: low strength, shrink-swell.	Slight	Moderate: shrink-swell, unstable fill.	Poor: low strength, shrink-swell.	Poor: excess salt, too clayey.	Pores slowly	Excess salt, slow intake, slope.	Excess salt, slope.
Montell: MoA, MoA	Severe: pores slowly.	Slight	Severe: too clayey.	Severe: low strength, shrink-swell.	Severe: too clayey.	Severe: low strength, shrink-swell.	Slight	Moderate: shrink-swell, unstable fill.	Poor: low strength, shrink-swell.	Poor: excess salt, too clayey.	Pores slowly	Excess salt, slow intake, slope.	Excess salt, slope.
Olmec: OMC	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: thin layer.	Good	Poor: small stones.	Not needed	Droughty, fast intake, slope.	Droughty, rooting depth, slope.
Pryor: PnA, PnB, PnC	Severe: pores slowly.	Slight	Severe: too clayey.	Moderate: low strength, shrink-swell.	Severe: depth to rock, too clayey.	Severe: low strength.	Slight	Moderate: piping.	Poor: low strength.	Fair: excess salt, too clayey.	Excess salt, slope, slow intake.	Excess salt, slope.	Excess salt, slope.
Quezada: QMC	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: thin layer.	Good	Poor: small stones.	Depth to rock, slope.	Depth to rock, droughty, rooting depth, slope.	Droughty, rooting depth, slope.
Reynosa: RoA	Moderate: pores slowly.	Moderate: seepage.	Slight	Moderate: low strength, shrink-swell.	Moderate: too clayey.	Severe: low strength.	Severe: seepage.	Moderate: piping.	Poor: low strength.	Fair: too clayey.	Favorable	Favorable	Favorable.
*Rio Grande: Rg, Rg For the Zalla part of Rg, see Zalla series.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: low strength.	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Cutbanks cave, floods.	Fast intake, floods.	Floods.
*Viejak: VnA, VnB For the Zapata part of VnA, see Zapata series.	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: thin layer.	Poor: depth to rock.	Fair: thin layer.	Depth to rock	Droughty, rooting depth, slope.	Droughty, rooting depth, slope.
Zalla Mapped only in an undifferentiated group with the Rio Grande series.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: floods.	Severe: seepage.	Moderate: piping, unstable fill.	Fair: low strength.	Poor: too sandy.	Cutbanks cave, floods.	Fast intake, floods.	Erodes easily, floods.
Zapata: ZPA	Severe: depth to rock.	Severe: depth to rock, seepage.	Moderate: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock, seepage.	Severe: thin layer.	Good	Poor: excess lime, thin layer.	Depth to rock	Droughty, rooting depth, slope.	Rooting depth, slope.