TABLE 6.—*Interpretations of engineering properties of the soils*

["Percs slowly," "shrink-swell," and other terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of data indicates that the soil is too variable for valid estimates]

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[1]	Local roads and streets	Pond reservoir areas	Dikes, levees, and other embankments	Road fill	Topsoil	Irrigation	Terraces and diversions	Grassed waterways
Alum: AmB	Severe: percs slowly.	Slight	Slight	Moderate: shrink-swell.	Slight	Moderate: shrink-swell.	Moderate: seepage.	Moderate: compressible.	Fair: too sandy.	Poor: too sandy.	Erodes easily	Erodes easily	Erodes easily.
AmC	Severe: percs slowly.	Moderate: slope.	Slight	Moderate: shrink-swell.	Slight	Moderate: shrink-swell.	Moderate: seepage.	Moderate: compressible.	Fair: too sandy.	Poor: too sandy.	Erodes easily	Erodes easily	Erodes easily.
Aransas: Ar, As	Severe: percs slowly.	Severe: floods	Severe: floods	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Slight	Moderate: shrink-swell.	Poor: shrink-swell; wet.	Poor: too clayey.	Slow intake	Not needed	Not needed.
Clareville: CaA, CaB	Severe: percs slowly.	Slight	Moderate: too clayey.	Moderate: shrink-swell.	Moderate: too clayey.	Moderate: low strength; shrink-swell.	Moderate: seepage.	Moderate: erodes easily; shrink-swell.	Fair: low strength; shrink-swell.	Fair: too clayey.	Percs slowly	Favorable	Favorable.
Colihre: ChB, ChC	Moderate: floods.	Severe: floods, seepage.	Moderate: floods.	Severe: floods	Moderate: floods.	Slight	Severe: seepage.	Moderate: erodes easily; piping.	Fair: low strength.	Fair: excess lime.	Seepage	Erodes easily; piping.	Favorable.
Coy: CoA, CoB	Severe: percs slowly.	Slight	Severe: too clayey.	Severe: shrink-swell.	Severe: too clayey.	Severe: low strength; shrink-swell.	Slight	Moderate: unstable fill.	Poor: shrink-swell.	Fair: too clayey.	Percs slowly	Favorable	Favorable.
Crockett: CrA, CrB	Severe: percs slowly.	Slight	Severe: too clayey.	Severe: shrink-swell.	Moderate: too clayey; wet.	Severe: shrink-swell.	Slight	Moderate unstable fill.	Poor: shrink-swell; low strength.	Poor: thin layer.	Percs slowly	Favorable	Favorable.
CrC2	Severe: percs slowly.	Moderate: slope.	Severe: too clayey.	Severe: shrink-swell.	Moderate: too clayey; wet.	Severe: shrink-swell.	Slight	Moderate unstable fill.	Poor: shrink-swell; low strength.	Poor: thin layer.	Percs slowly	Favorable	Favorable.
Elmendorf: EdA, EdB	Severe: percs slowly.	Slight	Severe: too clayey.	Severe: shrink-swell.	Severe: too clayey.	Severe: shrink-swell.	Slight	Moderate: compressible; unstable fill.	Poor: shrink-swell.	Fair: too clayey.	Percs slowly	Favorable	Favorable.
Eufaula: EPS (Eufaula part).	Slight	Severe: seepage.	Severe: cutbanks cave.	Slight	Severe: seepage.	Slight	Severe: seepage.	Severe: erodes easily; seepage; unstable fill.	Good	Poor: too sandy.	Droughty; seepage.	Complex slope; too sandy.	Droughty; too sandy.
EPS (Patilo part).	Severe: percs slowly.	Severe: seepage.	Severe: cutbanks cave.	Slight	Severe: too sandy.	Slight	Severe: seepage.	Severe: erodes easily.	Fair: low strength.	Poor: too sandy.	Erodes easily; fast intake; slope.	Too sandy	Droughty; erodes easily.
Floresville: FoA, FoB	Severe: percs slowly.	Slight	Slight	Moderate: shrink-swell.	Slight	Moderate: low strength; shrink-swell.	Slight	Moderate: compressible.	Fair: low strength; shrink-swell.	Fair: thin layer.	Percs slowly	Favorable	Favorable.
FoC, FoC2	Severe: percs slowly.	Moderate: slope.	Slight	Moderate: shrink-swell.	Slight	Moderate: low strength; shrink-swell.	Slight	Moderate: compressible.	Fair: low strength; shrink-swell.	Fair: thin layer.	Percs slowly	Favorable	Favorable.
Gowen: G_G, G_Z (Gowen part).	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Moderate: seepage.	Moderate: compressible.	Fair: low strength; shrink-swell.	Fair: too clayey.	Floods	Not needed	Not needed.
G_Z (Zavala part).	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Floods; seepage	Not needed	Not needed.
Karnes: KeB	Slight	Severe: seepage.	Slight	Slight	Severe: seepage.	Moderate: low strength.	Severe: seepage.	Moderate: compressible; piping.	Fair: low strength.	Poor: excess lime.	Seepage	Erodes easily	Droughty.

TABLE 6.—*Interpretations 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 [1]	Local roads and streets	Pond reservoir areas	Dikes, levees, and other embankments	Road fill	Topsoil	Irrigation	Terraces and diversions	Grassed waterways
Kaufman: Kf	Severe: floods; percs slowly.	Severe: floods	Severe: floods	Severe: floods; shrink-swell.	Severe: floods	Severe: floods; low strength; shrink-swell.	Slight	Moderate: unstable fill.	Poor: low strength; shrink-swell.	Poor: too clayey.	Floods; percs slowly.	Not needed	Not needed.
Leming: Le8	Severe: percs slowly.	Slight	Moderate: too clayey; wet.	Moderate: low strength; wet.	Moderate: too clayey; wet.	Moderate: low strength.	Slight	Moderate: piping.	Poor: low strength.	Poor: too sandy.	Erodes easily; slope.	Too sandy	Erodes easily.
Loire: Lf (Loire part)	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Moderate: seepage.	Moderate: piping; stability.	Fair: low strength.	Fair: too clayey.	Floods; seepage	Not needed	Not needed.
Lf (Frio part)	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Moderate: seepage.	Moderate: compressible.	Fair: low strength; shrink-swell.	Fair: too clayey.	Floods	Not needed	Not needed.
Luling: Lu8	Severe: percs slowly.	Moderate: slope.	Severe: too clayey.	Severe: shrink-swell.	Severe: shrink-swell; too clayey.	Severe: shrink-swell.	Slight	Moderate: unstable fill.	Poor: shrink-swell.	Poor: too clayey.	Percs slowly; slope.	Favorable	Percs slowly; slope.
Marcelinas: Ma8	Severe: percs slowly.	Slight	Moderate: too clayey.	Severe: shrink-swell.	Moderate: too clayey.	Severe: shrink-swell.	Slight	Moderate: unstable fill.	Poor: shrink-swell.	Fair: too clayey.	Percs slowly	Favorable	Favorable.
Miguel: MgA, Mg8	Severe: percs slowly.	Slight	Moderate: too clayey.	Moderate: shrink-swell.	Moderate: too clayey.	Moderate: shrink-swell.	Slight	Moderate: unstable fill.	Fair: low strength; shrink-swell.	Fair: thin layer.	Percs slowly	Favorable	Droughty; erodes easily.
MgC, MgC2	Severe: percs slowly.	Moderate: slope.	Moderate: too clayey.	Moderate: shrink-swell.	Moderate: too clayey.	Moderate: shrink-swell.	Slight	Moderate: unstable fill.	Fair: low strength; shrink-swell.	Fair: thin layer.	Percs slowly	Favorable	Erodes easily; percs slowly.
Nocken: NKC (Nocken part).	Severe: depth to rock; percs slowly.	Severe: depth to rock.	Severe: depth to rock; large stones.	Severe: large stones.	Severe: depth to rock; large stones.	Moderate: depth to rock; large stones.	Severe: depth to rock.	Moderate: piping.	Poor: large stones; low strength.	Poor: large stones; small stones.	Rooting depth; slope.	Depth to rock; large stones.	Large stones; slope.
NKC (Rock outcrop part).													
Orthents, rolling: Oy03.													
Picosa: PsC	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Severe: thin layer.	Fair: low strength; thin layer.	Poor: thin layer.	Complex slope; rooting depth.	Depth to rock; rooting depth.	Droughty; rooting depth.
Poth: Pt8	Severe: percs slowly.	Slight	Slight	Moderate: low strength.	Slight	Moderate: low strength.	Moderate: percs rapidly.	Moderate: compressible.	Fair: shrink-swell.	Poor: too sandy.	Droughty; fast intake.	Too sandy	Droughty; erodes easily.
Rosanky: Rs8, RsC	Severe: percs slowly.	Moderate: slope.	Slight	Moderate: shrink-swell.	Slight	Moderate: low strength.	Moderate: seepage.	Moderate: piping.	Fair: low strength.	Fair: thin layer.	Percs slowly	Favorable	Favorable.
Runge: RuA, Ru8, RuC.	Slight	Moderate: seepage; slope.	Slight	Slight	Slight	Moderate: low strength.	Moderate: seepage.	Moderate: compressible; piping.	Fair: low strength.	Fair: thin layer.	Favorable	Favorable	Favorable.
Sarita: SaC	Slight	Severe: seepage.	Severe: cut-banks cave.	Slight	Severe: seepage.	Slight	Severe: seepage.	Severe: piping	Good	Poor: too sandy.	Erodes easily; fast intake; seepage.	Too sandy	Erodes easily.
Sauparneo: Sp8, SpC	Slight	Severe: seepage.	Slight	Slight	Severe: seepage.	Moderate: low strength.	Severe: seepage.	Moderate: seepage; piping.	Fair: low strength.	Good	Seepage	Erodes easily	Erodes easily; slope.
Tabor: Tb8	Severe: percs slowly.	Slight	Severe: too clayey.	Severe: shrink-swell.	Severe: too clayey.	Severe: low strength; shrink-swell.	Slight	Moderate: unstable fill.	Poor: low strength; shrink-swell.	Fair: too sandy.	Slow intake	Percs slowly	Percs slowly.

TABLE 6.—*Interpretations 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 [1]	Local roads and streets	Pond reservoir areas	Dikes, levees, and other embankments	Road fill	Topsoil	Irrigation	Terraces and diversions	Grassed waterways
Tordia: TrA, Tr8	Severe: percs slowly.	Moderate: depth to rock.	Severe: too clayey.	Severe: shrink-swell.	Severe: depth to rock; too clayey.	Severe: shrink-swell.	Severe: depth to rock.	Moderate: unstable fill.	Poor: shrink-swell.	Poor: too clayey.	Percs slowly; slope.	Percs slowly	Droughty; percs slowly.
Ustochrepts, shallow: Us.	Severe: depth to rock; percs slowly.	Severe: depth to rock.	Severe: too clayey.	Severe: shrink-swell.	Severe: depth to rock.	Severe: low strength; shrink-swell.	Severe: depth to rock.	Severe: thin layer.	Poor: depth to rock.	Poor: thin layer.	Percs slowly; rooting depth; slope.	Depth to rock; percs slowly.	Percs slowly; rooting depth.
Venus: VeA, Ve8	Slight	Severe: seepage.	Slight	Slight	Slight	Moderate: low strength.	Severe: seepage.	Moderate: piping.	Fair: low strength.	Fair: too clayey.	Favorable	Favorable	Favorable.
Vernia: VrC	Slight	Moderate: seepage; slope; small stones.	Severe: small stones.	Slight	Severe: small stones.	Slight	Moderate: seepage.	Moderate: seepage.	Good	Poor: small stones.	Droughty	Not needed	Not needed.
Wilco: WcB, WcC, WcC2.	Severe: percs slowly.	Moderate: slope.	Slight	Moderate: shrink-swell.	Slight	Severe: low strength.	Moderate: seepage.	Moderate: compressible.	Fair: low strength; shrink-swell.	Poor; too sandy.	Erodes easily; percs slowly.	Erodes easily; percs slowly.	Erodes easily.
Willamar: WmA	Severe: percs slowly.	Slight	Severe: wet	Moderate: shrink-swell.	Moderate: wet	Severe: low strength.	Slight	Moderate: compressible; piping.	Poor: low strength.	Poor: thin layer.	Percs slowly	Favorable	Droughty; percs slowly.
Yahola: YtE (Yahola part).	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Floods; seepage	Not needed	Not needed.
YtE (Karnes part).	Slight	Severe: seepage.	Slight	Slight	Severe: seepage.	Moderate: low strength.	Severe: seepage.	Moderate: compressible; piping.	Fair: low strength.	Poor: excess lime.	Seepage	Erodes easily	Droughty.
Zavala: Za	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Moderate: floods.	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Seepage	Not needed	Not needed.
Zf	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: floods	Severe: seepage.	Moderate: piping.	Fair: low strength.	Good	Floods; seepage	Not needed	Not needed.

[1] Onsite studies of underlying strata, water table, and hazards of aquifer pollution and drainage into ground water need to be made for landfills deeper than 5 or 6 feet.