Map Unit Description (Brief, Tabular)

Coryell County, Texas

[Absence of an entry indicates that the feature is not a concern or that data were not estimated. Data applies to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

ChB--Cho clay loam, 1 to 3 percent slopes

Composition

- Cho and similar soils: 90 percent of the unit
- Unnamed: 10 percent of the unit

Setting

Landform(s): ridges on hills
Elevation: 820 to 1214 feet
Precipitation: 31 to 35 inches
Slope gradient: 1 to 3 percent
Air temperature: 64 to 68 ºF
Frost-free period: 210 to 240 days

Characteristics of Cho and similar soils

Average total avail. water in top five feet (in.): 4.4
Available water capacity class: Low
Parent material: loamy residuum weathered from limestone of Cretaceous age
Restrictive feature(s): petrocalcic at 7 to 20 inches
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none
Saturated hydraulic conductivity class: Moderately High
Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Land capability class, irrigated:
Land capability class, nonirrigated: 4s
Hydric soil: no
Hydrologic group: D
Runoff class: low
Potential frost action: none

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
H1 -- 0 to 11	Clay loam	1.1 to 1.7	7.9 to 8.4	0.0	0
H2 -- 11 to 22	Cemented material			0.0	0
H3 -- 22 to 59	Gravelly loam	1.9 to 3.7	7.9 to 8.4	0.0	0

Ecological class(es): NRCS Rangeland Site - Shallow 30-38" PZ

DrC--Doss-Real complex, 1 to 8 percent slopes

Composition

- Doss and similar soils: 30 to 65 percent of the map unit (RV=50 percent)
- Real and similar soils: 20 to 45 percent of the map unit (RV=30 percent)
- Bolar and similar soils: 5 to 15 percent of the map unit (RV=10 percent)
- Krum and similar soils: 2 to 10 percent of the map unit (RV=5 percent)
- Lampasas and similar soils: 2 to 10 percent of the map unit (RV=5 percent)

Setting

Landform(s): ridges on hills
Elevation: 400 to 1500 feet
Precipitation: 30 to 35 inches
Slope gradient: 1 to 8 percent
Air temperature: 65 to 67 ºF
Frost-free period: 220 to 250 days

Characteristics of Doss and similar soils

Average total avail. water in top five feet (in.): 2.7
Available water capacity class: Very low
Parent material: loamy residuum weathered from limestone
Restrictive feature(s): paralithic bedrock at 11 to 20 inches
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none
Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 4L
Wind erodibility index (WEI): 86
Land capability class, irrigated:
Land capability class, nonirrigated: 6e
Hydric soil: no
Hydrologic group: D
Runoff class: high
Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
A -- 0 to 8	Clay loam	0.9 to 1.4	7.9 to 8.4	0.0 to 2.0	0
Bk -- 8 to 18	Clay loam	1.2 to 1.8	7.9 to 8.4	0.0 to 2.0	0
Cr -- 18 to 80	Bedrock			Null	Null

Ecological class(es): NRCS Rangeland Site - Shallow 30-38" PZ

Map Unit Description (Brief, Tabular)

Coryell County, Texas

[DrC - Doss-Real complex, 1 to 8 percent slopes]

Characteristics of Real and similar soils

Average total avail. water in top five feet (in.): 1.1
Available water capacity class: Very low
Parent material: loamy residuum weathered from limestone
Restrictive feature(s): paralithic bedrock at 8 to 20 inches
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none

Soil loss tolerance (T factor): 2
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Land capability class, irrigated:
Land capability class, nonirrigated: 6e
Hydric soil: no
Hydrologic group: D
Runoff class: high
Potential frost action: none

Saturated hydraulic conductivity class: Moderately High

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
A -- 0 to 8	Gravelly clay loam	0.4 to 1.0	7.9 to 8.4	0.0 to 2.0	0
Bk -- 8 to 15	Very gravelly clay loam	0.2 to 0.6	7.9 to 8.4	0.0 to 2.0	0
Crk -- 15 to 80	Bedrock			Null	Null

Ecological class(es): NRCS Rangeland Site - Adobe 30-38" PZ

KrB--Krum silty clay, cool, 1 to 3 percent slopes

Composition

- Krum, cool and similar soils: 85 to 95 percent of the map unit (RV=90 percent)
- Denton and similar soils: 1 to 10 percent of the map unit (RV=5 percent)
- Bolar and similar soils: 1 to 5 percent of the map unit (RV=3 percent)
- Frio and similar soils: 1 to 5 percent of the map unit (RV=2 percent)

Setting

Landform(s): hillslopes on hills, stream terraces on hills
Elevation: 400 to 1900 feet
Precipitation: 29 to 37 inches
Slope gradient: 1 to 3 percent
Air temperature: 64 to 67 ºF
Frost-free period: 230 to 250 days

Characteristics of Krum, cool and similar soils

Average total avail. water in top five feet (in.): 11.8
Available water capacity class: High
Parent material: calcareous silty and clayey alluvium derived from limestone and siltstone
Restrictive feature(s): none
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none
Saturated hydraulic conductivity class: Moderately Low
Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Land capability class, irrigated: 3e
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: C
Runoff class: high
Potential frost action: none

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
Ap -- 0 to 8	Silty clay	1.0 to 1.6	7.4 to 8.4	0.0 to 2.0	0
A -- 8 to 34	Silty clay	3.1 to 4.7	7.9 to 8.4	0.0 to 2.0	0 to 1
Bw -- 34 to 58	Silty clay	2.9 to 4.3	7.9 to 8.4	0.0 to 2.0	0 to 3
Bk -- 58 to 80	Silty clay	1.5 to 4.0	7.9 to 8.4	0.0 to 2.0	1 to 3

Ecological class(es): NRCS Rangeland Site - Clayey Swale 30-38

NuC--Nuff very stony silty clay loam, 2 to 6 percent slopes

Composition

- Nuff and similar soils: 90 percent of the unit
- Unnamed: 10 percent of the unit

Setting

Landform(s): ridges on hills
Elevation: 820 to 1214 feet
Precipitation: 31 to 35 inches
Slope gradient: 2 to 6 percent
Air temperature: 64 to 68 ºF
Frost-free period: 230 to 250 days

Characteristics of Nuff and similar soils

Average total avail. water in top five feet (in.): 13.1
Available water capacity class: High
Parent material: clayey residuum weathered from shale in the Walnut Clay
Restrictive feature(s): densic bedrock at 20 to 40 inches
Depth to Water table: none within the soil profile
Drainage class: well drained
Flooding hazard: none
Ponding hazard: none
Saturated hydraulic conductivity class: Moderately High
Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 5
Wind erodibility index (WEI): 56
Land capability class, irrigated:
Land capability class, nonirrigated: 6s
Hydric soil: no
Hydrologic group: C
Runoff class: medium
Potential frost action: none

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
H1 -- 0 to 11	Very stony silty clay loam	1.3 to 1.8	7.9 to 8.4	0.0	0
H2 -- 11 to 30	Silty clay loam	2.8 to 3.4	7.9 to 8.4	0.0	0 to 1
H3 -- 30 to 36	Stony silty clay loam	0.7 to 0.9	7.9 to 8.4	0.0	1 to 3
H4 -- 36 to 80	Silty clay loam	6.6 to 7.9	7.9 to 8.4	0.0	1 to 3

Ecological class(es): NRCS Rangeland Site - Stony Clay Loam 30-38" PZ

SlB--Slidell silty clay, 0 to 2 percent slopes

Composition

- Slidell and similar soils: 80 to 95 percent of the map unit (RV=85 percent)
- Denton and similar soils: 3 to 10 percent of the map unit (RV=7 percent)
- San Saba and similar soils: 1 to 10 percent of the map unit (RV=5 percent)
- Bolar and similar soils: 1 to 5 percent of the map unit (RV=3 percent)

Setting

Landform(s): ridges on hills
Elevation: 400 to 1400 feet
Precipitation: 31 to 35 inches

Slope gradient: 0 to 2 percent
Air temperature: 65 to 67 ºF
Frost-free period: 235 to 260 days

Characteristics of Slidell and similar soils

Average total avail. water in top five feet (in.): 11.1
Available water capacity class: High
Parent material: clayey slope alluvium
Restrictive feature(s): none
Depth to Water table: none within the soil profile
Drainage class: moderately well drained
Flooding hazard: none
Ponding hazard: none

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 4
Wind erodibility index (WEI): 86
Land capability class, irrigated:
Land capability class, nonirrigated: 3e
Hydric soil: no
Hydrologic group: D
Runoff class: very high
Potential frost action: none

Saturated hydraulic conductivity class: Moderately Low

Representative soil profile:

Horizon -- Depth (inches)	Texture	Available water capacity (inches)	pH	Salinity (mmhos/cm)	SAR
Ap -- 0 to 18	Silty clay	1.8 to 3.3	7.4 to 8.4	0.0 to 2.0	0
Bss -- 18 to 35	Silty clay	1.7 to 3.0	7.4 to 8.4	0.0 to 2.0	0 to 2
Bkss -- 35 to 66	Silty clay	3.1 to 5.6	7.4 to 8.4	0.0 to 2.0	0 to 6
BCk -- 66 to 80	Silty clay	1.4 to 2.5	7.4 to 8.4	0.0 to 2.0	0 to 6

Ecological class(es): NRCS Rangeland Site - Blackland 30-38" PZ