



LIST OF MAP UNITS

- asa ALLUVIAL SAND, SILT, CLAY, AND GRAVEL
- ale ALLUVIAL SILT AND CLAY
- afa ALLUVIAL-FAN DEPOSIT
- es EOLIAN SHEET SAND
- ed DUNE SAND

- asi ALLUVIAL, LACUSTRINE, AND EOLIAN DEPOSIT
- oc PLAYA CLAY
- cga CALCRETE-CLAST LOAM TO SANDY LOAM COLLUVIUM
- cbf BOULDERY SANDY COLLUVIUM
- cbm LIMESTONE-CLAST LOAMY COLLUVIUM
- cbo LIMESTONE-CLAST SILTY CLAY COLLUVIUM
- cse RED SILTSTONE- AND SHALE-CLAST LOCALLY GYPSIFEROUS LOAMY COLLUVIUM
- csf PEBBLY SANDY CLAY LOAM COLLUVIUM
- csi QUARTZ SANDSTONE-CLAST SANDY COLLUVIUM
- csj LIMESTONE-, SHALE-, SANDSTONE-, AND CALCRETE-CLAST LOAMY COLLUVIUM
- cla SANDSTONE- AND SHALE-CLAST COLLUVIUM
- clf ACID SHALE-CHIP CLAY-LOAM COLLUVIUM
- cll SHALE- AND SLABBY LIMESTONE-CLAST COLLUVIUM
- clm SHALE- AND SILTSTONE-CLAST LOAMY COLLUVIUM
- clq SANDSTONE- AND SHALE-CLAST LOAMY COLLUVIUM
- clt SHALE-CLAST CLAYEY COLLUVIUM
- ccj LIMESTONE- AND SANDSTONE-CLAST LOAMY COLLUVIUM
- xba SHALE- AND LIMESTONE-CLAST DISINTEGRATION RESIDUUM
- xsb QUARTZ SAND DISINTEGRATION RESIDUUM
- xlc RED SILTY CLAY DISINTEGRATION RESIDUUM
- xld RED SILTY CLAY DISINTEGRATION RESIDUUM AND GYPSUM SOLUTION RESIDUUM
- xle FINE SANDY LOAM DISINTEGRATION RESIDUUM
- xlg CALCAREOUS SANDY LOAM DISINTEGRATION RESIDUUM
- xcb CALCAREOUS CLAY DISINTEGRATION RESIDUUM
- xcc STONY SELENITIC SILTY CLAY LOAM DISINTEGRATION RESIDUUM
- xcd SANDSTONE AND MUDSTONE CLAY LOAM DISINTEGRATION RESIDUUM

- oca LACUSTRINE CLAY, SILT, AND SAND

- afc ALLUVIAL- AND SHEETWASH-FAN FINE SAND AND SILT
- aso CEMENTED ALLUVIAL GRAVELLY SAND
- afb ALLUVIAL-FAN GRAVELLY TO SANDY LOAM

- asg ALLUVIAL GRAVEL, SAND, SILT, AND CLAY
- esa EOLIAN SHEET SAND
- cab CEMENTED COLLUVIUM AND SHEETWASH ALLUVIUM

- ago ALLUVIAL GRAVEL AND SAND
- ocb EOLIAN AND ALLUVIAL SAND, SILT, AND CLAY

- occ LACUSTRINE SAND, CLAY, AND LIMESTONE

- zsa LIMONITIC SANDY DECOMPOSITION RESIDUUM
- zsb QUARTZ SAND DECOMPOSITION RESIDUUM
- zsd SANDY DECOMPOSITION RESIDUUM
- zse CLAYEY SAND AND SANDY CLAY DECOMPOSITION RESIDUUM
- zsp FINE SANDY, SILTY CLAY DECOMPOSITION RESIDUUM
- zld CLAYEY SILT TO SILTY CLAY DECOMPOSITION RESIDUUM
- zlq FINE SANDY LOAMY DECOMPOSITION RESIDUUM
- zlr CLAY LOAM AND FINE SANDY LOAMY DECOMPOSITION RESIDUUM
- zls SANDY CLAY LOAM DECOMPOSITION RESIDUUM
- zlt RED CLAY LOAM DECOMPOSITION RESIDUUM WITH LOCAL GYPSUM RUBBLE
- zcb SMECTITIC CLAY DECOMPOSITION RESIDUUM
- zcc SILTY CLAY DECOMPOSITION RESIDUUM
- zcg SAND, GRAVEL, SILT, AND CLAY DECOMPOSITION RESIDUUM
- zcj CLAY AND SILTY CLAY DECOMPOSITION RESIDUUM
- zcn SANDY CLAY LOAM DECOMPOSITION RESIDUUM
- zri SILTY CLAY DECOMPOSITION RESIDUUM AND CHERTY CLAY SOLUTION RESIDUUM
- zrl CLAY LOAM AND CHANNERY LOAM DECOMPOSITION RESIDUUM AND SOLUTION RESIDUUM
- rcn CHERTY CALCAREOUS CLAY SOLUTION RESIDUUM
- rcv STONY CALCAREOUS CLAY SOLUTION RESIDUUM
- usa FELDSPATHIC SANDY FINE GRUS

- CONTACT
- SHORELINE
- FAULT WITH QUATERNARY DISPLACEMENT--Bar and ball on downthrown side

- VOLCANIC ASH BEDS**
- Lava Creek B ash bed (Pearlette type O)
 - Huckleberry Ridge ash bed (Pearlette type B)
 - Pearlette family of ash beds not individually identified
 - "Pleistocene, possibly belonging to Pearlette family of ash beds"
 - Cerro Toledo ash bed (upper?)
 - Guaje ash bed in Blackwater Draw Formation
 - Mount Blanco ash bed in Blanco Formation

**Plot of digital database for
QUATERNARY GEOLOGIC MAP OF THE DALLAS 4° x 6° QUADRANGLE, UNITED STATES**

by
Charles A. Bush
U.S. Geological Survey