



- PRIMARY SOIL DIVISIONS**
- RESIDUAL
 - LOESSIAL
 - GLACIAL
 - WATER LAID
 - SOILS OF THE COASTAL PLAIN
 - SOILS OF THE FILLED VALLEYS AND GREAT PLAINS OUTWASH MANTLE
 - RECENT ALLUVIUM
 - NON-SOIL AREAS (LOCATIONS IN WHICH THE SOIL IS VERY THIN OR OTHERWISE HAS LITTLE ENGINEERING SIGNIFICANCE BECAUSE OF ROUGH TOPOGRAPHY OR EXPOSED ROCK; PRINCIPALLY MOUNTAINS, CANYONS, SCABLANDS, OR BADLANDS)

- RESIDUAL SOILS**
- DEVELOPED FROM LIMESTONES-INCLUDING DOLOMITIC AND CHERT LIMESTONES
 - SANDSTONES AND SANDSTONES AND SHALES (WITH COALS AND UNDERLAYS IN PLACES)
 - SHALES AND SANDSTONES
 - SHALES (CLAYEY)
 - SANDSTONES, LIMESTONES, AND SHALES
 - LIMESTONES AND SHALES (INCLUDES SOME CHALK)
 - LIMESTONES AND SANDSTONES
 - RED BED SHALES AND SANDSTONES (INCLUDES SOME GYPSUM AND LIMESTONE)
 - SANDSTONES AND SHALES WITH LAVAS, TUFFS, AND DIATOMACEOUS AND MICACEOUS SHALES
 - SHALES, CLAYS, SANDSTONES, LIMESTONES AND SCORIA (INCLUDES COLLUVIAL MATERIAL)
 - SANDSTONES, SANDY AND CLAYEY SHALES, AND CLAYS
 - METAMORPHIC AND INTRUSIVE ROCKS (SCHIST, GNEISS, SLATE AND GRANITE)
 - EXTRUSIVE ROCKS (BASALT AND LAVA)

- SOILS OF THE FILLED VALLEYS AND GREAT PLAINS OUTWASH MANTLE**
- GRAVEL AND SAND
 - SAND
 - GREAT PLAINS OUTWASH MANTLE (SILTS, SANDS, SANDY CLAY, AND GRAVEL; FREQUENTLY UNDERLAIN BY CALICHE)
 - GREAT PLAINS OUTWASH MANTLE (SANDS AND SILTS UNDERLAIN BY SOFT SANDSTONES, SHALES AND MARLS)
 - ORGANIC MATERIALS (MUCK, PEAT, AND SWAMPS)
 - LACUSTRINE DEPOSITS (PREDOMINANTLY CLAYS AND SILTS)
 - VALLEY FILL, CONSOLIDATED IN PLACES (LACUSTRINE CLAYS, SANDS, SILTS, GRAVELS, VOLCANIC ASH, WITH SOME SANDSTONES, SHALES, LAVAS, AND DIATOMITE)
 - VALLEY FILL, UNCONSOLIDATED (SANDS, SILTS, CLAYS, GRAVELS, TUFFS, AND VOLCANIC ASH)
 - VALLEY FILL, SEMI-CONSOLIDATED (GRAVELS, CONGLOMERATES, SANDSTONES, SHALES, MARLY AND SANDY CLAYS, TUFFS, VOLCANIC ASH, AND SOME LIGNITE)

- LOESSIAL SOILS**
- LOESSIAL SILTS AND VERY FINE SANDS
- RECENT ALLUVIUM**
- MAJOR DEPOSITS (PRINCIPALLY CLAYS, SILTS, AND SOME SANDS)
 - ORGANIC MATERIALS

- GLACIAL SOILS**
- YOUNG DRIFT (WISCONSIN AND IOWAN AGES)
 - OLD DRIFT (NEBRASKAN, KANSAN, AND ILLINOIAN AGES)
 - GRAVEL AND SAND
 - SAND
 - LACUSTRINE DEPOSITS (PREDOMINANTLY CLAYS AND SILTS)
 - ORGANIC MATERIALS (MUCK, PEAT, AND SWAMPS)

- SOILS OF THE COASTAL PLAIN**
- SAND-CLAY
 - CLAY
 - INTERBEDDED AND INTERMIXED SANDS, CLAYS, GRAVELS, AND SILTS
 - GRAVEL AND SAND
 - SAND
 - ORGANIC MATERIALS (MUCK, PEAT, AND SWAMPS)

ORIGIN AND DISTRIBUTION OF UNITED STATES SOILS

PREPARED COOPERATIVELY BY
THE TECHNICAL DEVELOPMENT SERVICE, CIVIL AERONAUTICS ADMINISTRATION
AND
THE ENGINEERING EXPERIMENT STATION, PURDUE UNIVERSITY

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