



#3 TAXONOMIC CLASS: Fine-loamy, mixed, superactive, frigid Typic Haplustolls

SOIL CHARACTERISTICS:

Drainage and Permeability - Well drained and moderately permeable

Geographic Setting – Sedimentary uplands

Parent Material - Residuum weathered from stratified soft sandstone, siltstone, and mudstone.

BRIEF SOIL PROFILE DESCRIPTION:

Surface Layer – Dark grayish brown loam 7 inches thick

Subsoil – Brown and light brownish gray loam 11 inches thick

Substratum – Light gray and pale yellow over light gray loam 12 inches thick over olive gray stratified soft sandstone and siltstone.

FACTS :

Predominant Land Use - Cropland for growing small grains, sunflowers, flax, and hay

Native Ecosystem - Mid and short grass prairie

Geographic Distribution - Southwestern North Dakota

Estimated Gross Annual Contribution to ND Agricultural Economy – 52M dollars

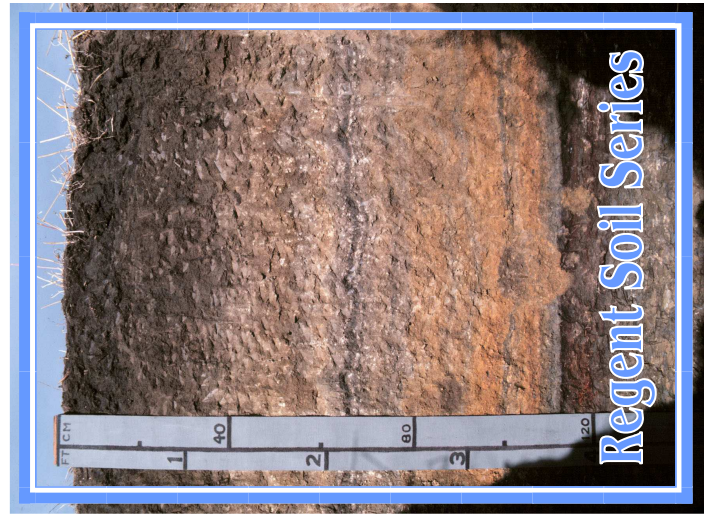
UNIQUE SOIL FEATURES:

Dark colored surface (mollic epipedon) - 10 to 14 inches thick

Soft Bedrock - depth of 20 to 40 inches.



Learn more about this soil and others online at:
["http://soils.usda.gov/technical/classification/osd/"](http://soils.usda.gov/technical/classification/osd/)
 or
www.ce2c.gscience.org/c2c2



#5 TAXONOMIC CLASS: Fine, smectitic, frigid Vertic Argiustolls

SOIL CHARACTERISTICS:

Drainage and Permeability - Well drained and slowly permeable

Geographic Setting - Sedimentary uplands

Parent Material - Residuum weathered from alkaline soft shale, siltstone, or mudstone.

BRIEF SOIL PROFILE DESCRIPTION:

Surface Layer – Very dark grayish brown silty clay loam 6 inches thick

Subsoil – Grayish brown and dark grayish brown silty clay in the upper 16 inches and pale brown silty clay loam in the lower 11 inches

Substratum – Light reddish brown and olive gray soft shale bedrock

FACTS:

Predominant Land Use - Cropland for growing small grains, sunflowers, flax, and hay

Native Ecosystem - Mid and short grass prairie

Geographic Distribution - Southwestern North Dakota

Estimated Gross Annual Contribution to ND Agricultural Economy – 29M dollars

UNIQUE SOIL FEATURES:

Bt (argillic) horizon with 35 to 50% clay

Soft bedrock - depth of 20 to 40 inches.



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