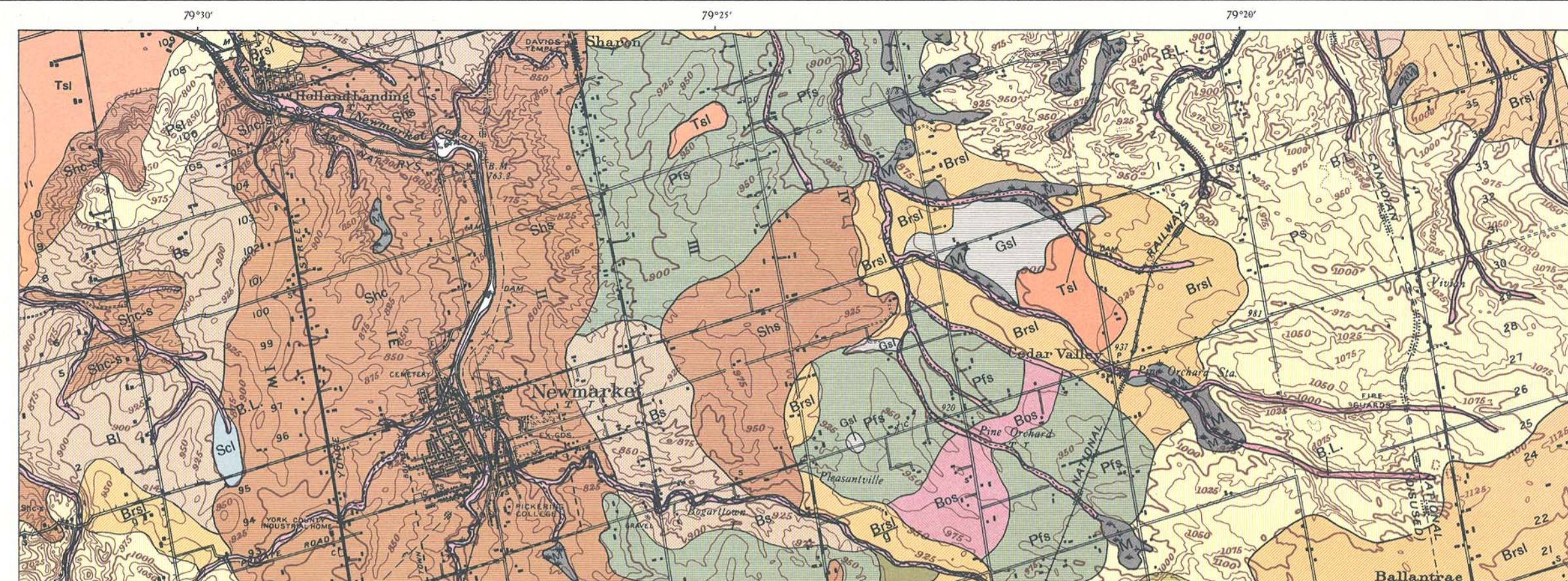


SOIL REFERENCE

<p>I. SOILS ON CALCAREOUS TILL</p> <p>A. TILL DERIVED MAINLY FROM BEKIMANTOWN LIMESTONE Well drained (BF)</p> <p>Bn St. Bernard (Grenville) Loam</p> <p>B. TILL DERIVED MAINLY FROM CHAZY LIMESTONE Well drained (BF)</p> <p>Lv Laval clay loam</p> <p>C. TILL DERIVED MAINLY FROM TRENTON LIMESTONE Moderately well drained (BF)</p> <p>Do Dorval clay loam</p> <p>Dog Dorval gravelly clay loam Imperfectly to poorly drained (IG)</p> <p>T Terrebonne clay loam</p> <p>D. SHALLOW VARIABLE TILL OVER LIMESTONE BEDROCK Somewhat excessively to well drained (BF-L)</p> <p>F Farmington loam</p> <p>Fh Farmington clay loam</p> <p>II. SOILS ON GRAVELS</p> <p>A. DERIVED FROM A WIDE VARIETY OF ROCKS, BUT LARGELY CALCAREOUS Somewhat excessively to well drained (IGBP)</p> <p>Ph Ste. Philomène (Kars) sandy loam</p>	<p>III. SOILS ON ALLUVIAL MATERIALS OVER CALCAREOUS TILL</p> <p>A. DEVELOPED FROM HEAVY MATERIAL OVER TILL (a) Neutral material Moderately well drained (IGBP)</p> <p>Ch Chateauguy clay loam</p> <p>Chl Chateauguy loam</p> <p>Ch-g Chateauguy loam with gravelly streaks</p> <p>Ch-a Chateauguy loam shallow phase Somewhat poorly drained (IG)</p> <p>M Macdonald clay loam</p> <p>(b) Calcareous material</p> <p>Bl St. Blaise clay loam</p> <p>B. DEVELOPED FROM SANDY MATERIAL OVER TILL Somewhat excessively drained (P-BP)</p> <p>C Chicot fine sandy loam</p> <p>Cs Chicot light sandy loam</p> <p>IV. SOILS ON ALLUVIAL MATERIALS OVER MARINE CLAY</p> <p>A. DEVELOPED FROM CLAY CONTAINING LAYERS OF SAND OR SILT Somewhat poorly drained (IG)</p> <p>Lr St. Laurent clay</p>	<p>C. DEVELOPED FROM SANDY MATERIALS (c) Thick deposits (30" or more over clay) Imperfectly to poorly drained variable drainage GWP + P + HBI</p> <p>Am St. Amable loamy sand</p> <p>V. SOILS ON MARINE CLAYS</p> <p>A. DEVELOPED FROM REDDISH BROWN OR BANDED BROWN AND GRAY CLAY Moderately well drained (IG)</p> <p>W Wendou clay Somewhat poorly drained (IG)</p> <p>Bb Bearbrook clay</p> <p>B. DEVELOPED FROM NON-CALCAREOUS GRAY CLAY Moderately well to imperfectly drained (IG)</p> <p>Ri Rideau clay Very poorly drained (IG HBI)</p> <p>Lp Laplaine clay</p> <p>C. DEVELOPED FROM SLIGHTLY CALCAREOUS GRAY CLAY Moderately well to imperfectly drained (IG)</p> <p>D Dalhousie clay</p> <p>D. DEVELOPED FROM CALCAREOUS DARK - GRAY CLAY Somewhat poorly drained (IG.G.)</p> <p>U St. Urbain clay</p>	<p style="text-align: center;">PART OF MONTREAL-JESUS BIZARD ISLANDS QUEBEC SCALE 1:63,360 or 1 Inch to 1 Mile</p>
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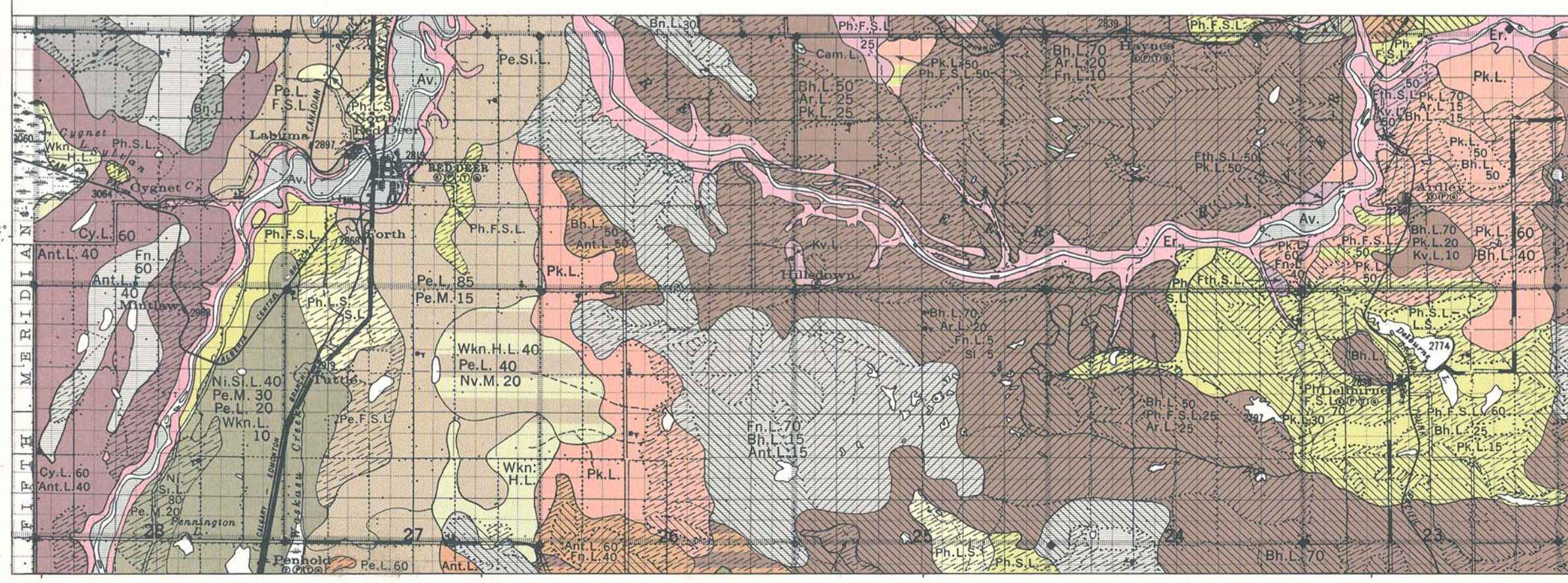


SOIL REFERENCE

SOIL TYPE MAP SYMBOLS AND ACREAGES	BONDHEAD loam sandy loam Bf-6, 300 Bs-13, 100	PONTPOOL sandy loam sand Ps1-21, 200 Ps-14,000	GRANBY sandy loam Gsl-15,200	BRIGHTON sandy loam Brs1-24,800 sandy loam over gravel Brs1-4,000	TECUMSETH sandy loam Tsl-15,200	
PARENT MATERIALS	Medium textured grey stony, strongly calcareous till	Poorly sorted, calcareous sandy outwash.	Well sorted slightly calcareous sandy outwash	Well sorted, grey, calcareous sand, or stratified sand and gravel		
DRAINAGE	Good	Good	Poor	Good	Imperfect	
TOPOGRAPHY	Smooth moderately sloping	Irregular steeply sloping	Smooth very gently sloping	Smooth very gently sloping	Smooth very gently sloping	
SURFACE STONINESS	Few stones	Few stones	Stonefree	Stonefree	Stonefree	
SURFACE REACTION	Slightly alkaline to medium alkaline	Neutral to slightly alkaline	Neutral to slightly alkaline	Neutral to slightly alkaline	Neutral to slightly alkaline	
GREAT SOIL GROUP	Grey-Brown Podzolic	Grey-Brown Podzolic	Dark Grey Gleisolic	Grey-Brown Podzolic	Grey-Brown Podzolic	
SOIL TYPE MAP SYMBOLS AND ACREAGES	PERCY fine sandy loam Pfs-10,200	BOOKTON sandy loam Bos-3,100	SCHOMBERG clay loam Shc-16,800 clay loam steep phase Shc-s-4,300 silt loam Shs-5,100	SMITHFIELD clay loam Sci-3,900	BOTTOM LAND Variable B.L.-36,000	MUCK Variable M-27,800
PARENT MATERIALS	Well sorted calcareous fine sand	Sandy outwash over calcareous clay till at depths of 3 feet or less	Lacustrine, grey, calcareous, clay or silty clay	Irregularly stratified alluvial deposits	Well decomposed organic deposits (18") over mineral materials	
DRAINAGE	Good	Good	Good	Imperfect	Variable	
TOPOGRAPHY	Smooth gently sloping	Smooth gently sloping	Smooth moderately sloping to irregular steeply sloping	Smooth gently sloping	Variable	
SURFACE STONINESS	Stonefree	Stonefree	Stonefree	Stonefree	Stonefree	
SURFACE REACTION	Neutral to slightly alkaline	Slightly acid to neutral	Slightly alkaline	Slightly alkaline	Variable	
GREAT SOIL GROUP	Grey-Brown Podzolic	Grey-Brown Podzolic	Grey-Brown Podzolic	Grey-Brown Podzolic	Alluvial	

SOIL REFERENCE

<p>GREY WOODED SOILS Soils developed on Glacial Till</p> <p>Bn.L. Breton Loam (grey wooded)</p> <p>DEGRADED BLACK SOILS Soils developed on Glacial Till</p> <p>Fn.L. Falun Loam (degraded black earth)</p> <p>MISCELLANEOUS SOILS</p> <p>Av. Alluvium</p> <p>Er. Eroded Land</p> <p>40 Where more than one soil type occurs in one area percentage figures are used</p> <p>BLACK SOILS Soils developed on Glacial Till</p> <p>Bh.L. Beaver Hills Loam (black earth)</p> <p>Ar.L. Angus Ridge Loam (solodic)</p> <p>Ant.L. Antler Loam (black earth)</p> <p>Cy.L. Cygnet Loam (solodic)</p>	<p>BLACK SOILS Soils developed on Glacial Lacustrine Material</p> <p>Nv.M. Navarre Meadow (meadow type)</p> <p>Wkn.L. Wetaskiwin Loam and Heavy Loam (solodized solonetz)</p> <p>BLACK SOILS Soils developed on Alluvial Lacustrine Material</p> <p>Pk.L. Ponoka Loam (mildly solonetzic)</p> <p>Pe.F.S.L. Penhold Fine Sandy Loam (black earth)</p> <p>Pe.L.S.L. Penhold Loam and Silt Loam (black earth)</p> <p>Pe.M. Penhold Meadow (meadow type)</p> <p>Ni.S.L. Niobe Silt Loam (solonetzic)</p> <p>BLACK SOILS Soils developed on Alluvial-Aeolian Material</p> <p>Ph.L.S. Peace Hills Loamy Sand (black earth)</p> <p>Ph.S.L. Peace Hills Sandy Loam (black earth)</p> <p>Ph.F.S.L. Peace Hills Fine Sandy Loam (black earth)</p> <p>BLACK SOILS Soils developed on Coarse Outwash Material</p> <p>Fth.S.L. Ferintosh Sandy Loam (black earth)</p> <p>BLACK SOILS Soils developed on Relatively Undisturbed Residual Material</p> <p>Kv.L. Kavanagh Loam (solonetz to solodized solonetz)</p>	<p>OTHER FEATURES</p> <p>Soil Boundaries</p> <p>Topography Boundaries</p> <p>Soil Zone Boundaries</p>	<p>TOPOGRAPHY</p> <p>Level and Undulating</p> <p>Gently Rolling</p> <p>Rolling</p> <p>Hilly</p>	<p style="text-align: center;">PART OF RED DEER SHEET ALBERTA SCALE 1:190,080 or 1 Inch to 3 Miles</p>
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SOIL REFERENCE

<p>A. BLACK EARTH SOILS DEVELOPED ON -</p> <p>B. FINE TEXTURED SEDIMENTS</p> <p>B. LACUSTRINE FINE CLAY (RED RIVER ASSOCIATION)</p> <p>Phyto-Polyhydromorphic: Rc Red River Clay (Well to intermediately drained associates)</p> <p>Hydromorphic: Oc Osborne Clay (Poorly drained associates)</p> <p>Phytomorphic: Nc St. Norbert Clay (Wooded associate)</p> <p>Phyto-Polyhydromorphic: Fc Fort Garry Clay</p> <p>Phytomorphic: Ag Agassiz Loamy Coarse Sand to Light Sandy Loam</p>	<p>A. GREY-BLACK SOILS DEVELOPED ON -</p> <p>B. FINE TEXTURED SHALLOW LACUSTRINE DEPOSITS ON TILL</p> <p>Phyto-Polyhydromorphic: Pe Pegus Clay</p> <p>Phyto-Polyhydromorphic: Se Simple Clay Loam to Clay</p>	<p>A. LOCAL SOIL AREAS</p> <p>ALLUVIAL SOILS</p> <p>B. SOIL WITH FEEBLY DEVELOPED PROFILE ON RIVER TERRACE DEPOSITS</p> <p>Ri Riverdale Silty Clay</p>	<p>OTHER FEATURES</p> <p>Well drained</p> <p>Salinized</p> <p>Alkalinized and degraded</p> <p>Transition</p> <p>Wooded member</p> <p>Soil zone boundary</p> <p>Soil association and phase boundary</p> <p>Soil associate boundary</p>	<p style="text-align: center;">PART OF WINNIPEG AREA MANITOBA SCALE 1:126,720 or 1 Inch to 2 Miles</p>
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