



# Farmland Calculation Report

Year of General Assessment: 2021

<b>Roll:</b> 4205013001	<b>Alt. Key:</b>	420022A RGE RD 5-0	Rimbey	18 miles	94%
<b>Legal:</b> SE-1-42-5-5				Access:	100%
Agroclimatic Zone: 18 3H-N	Photo:272	Type:		Net Location:	94%

No: 1	40.00 Acres	Soil: 62	GL	Dryland Arable	Adjusted Rating: 55.0%		
				%Fld	NPR	ICP	
	30 Ap Depth/Color		1 AP0-AP1 (avg)	50 100%	-1.5	0.0	
	41 Subsoil		8 CL	50 100%	0.0	0.0	
	44 Poorly Drained		2 P1	50 20%	-1.6	0.0	
	51 Ap Texture		12 L	50 100%	0.0	0.0	
	64 Flooding		1 FD1	50 100%	-2.0	0.0	
	71 Topography		6 U	50 100%	0.0	-1.0	
	72 Stone Cover		22 S1	50 100%	0.0	-3.0	
	73 Miscellaneous		1 Obstacles	2 100%	0.0	-2.0	
	73 Miscellaneous		2 Irreg. / Size	7 100%	0.0	-7.0	
					-5.1	-13.0	
	Group ID: 127028753		40.00 Acres x	350.0 / acre x	1.0000 x	36.9 % =	5,166

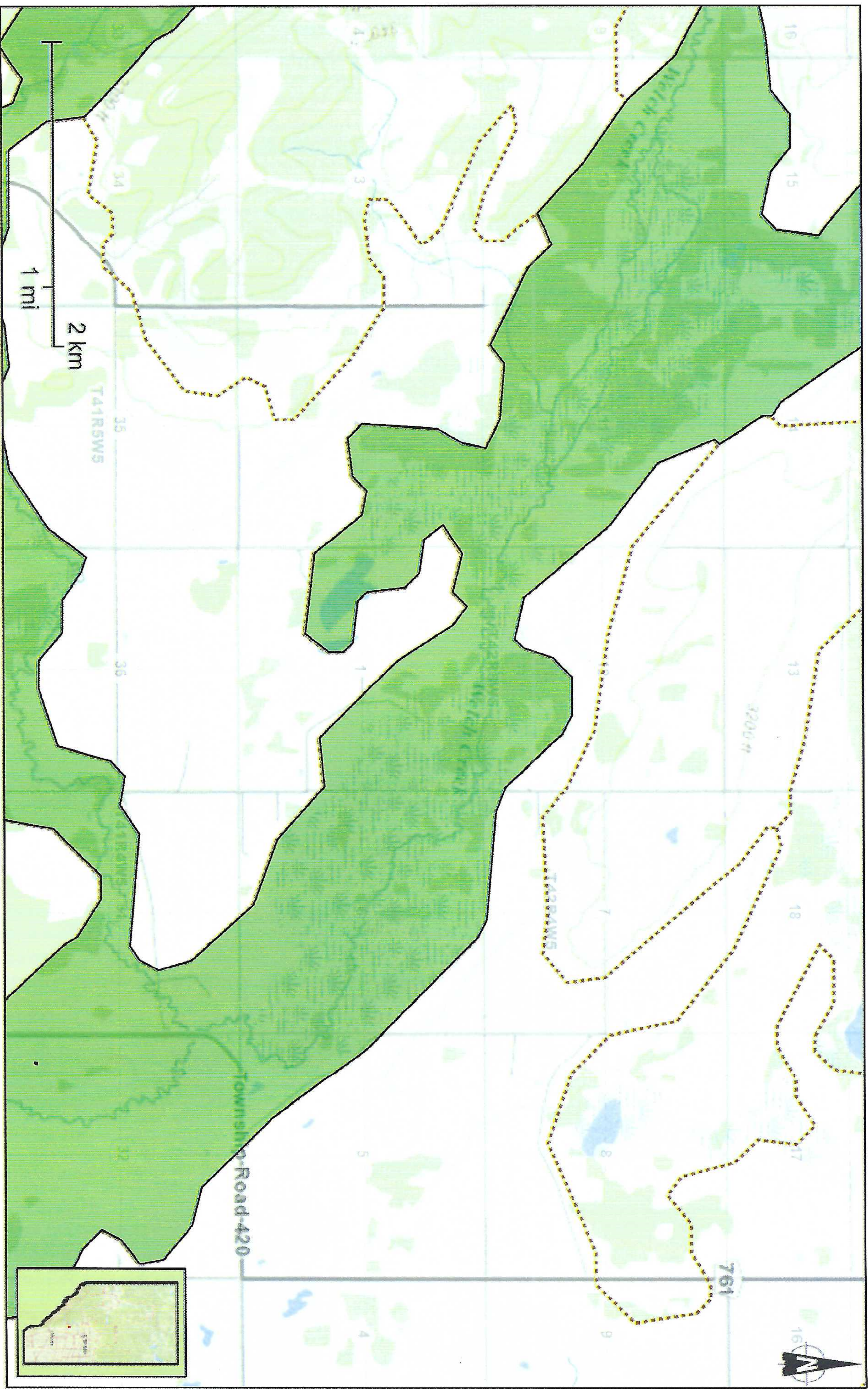
No: 2	3.00 Acres	Soil: 80	Pasture	Dryland Pasture			
				%Fld	NPR	ICP	
	30 Ap Depth/Color		1 AP0-AP1 (avg)	50 100%	0.0	0.0	
	41 Subsoil		8 CL	50 100%	0.0	0.0	
	44 Poorly Drained		2 P1	50 20%	0.0	0.0	
	51 Ap Texture		12 L	50 100%	0.0	0.0	
	64 Flooding		1 FD1	50 100%	0.0	0.0	
	71 Topography		6 U	50 100%	0.0	0.0	
	72 Stone Cover		22 S1	50 100%	0.0	0.0	
	82 Improved		13 12-14 Ac/AU	50 100%	29.0	0.0	
	99 Description		22 Obstacles/Size	50 100%	0.0	0.0	
					29.0	0.0	
	Group ID: 127028754		3.00 Acres x	350.0 / acre x	1.0000 x	29.0 % =	305

No: 3	10.83 Acres	Soil: 80	Pasture	Dryland Pasture			
				%Fld	NPR	ICP	
	10 Soil Group		72 MS	50 100%	0.0	0.0	
	82 Improved		20 20 Ac/AU	50 100%	18.0	0.0	
	99 Description		17 Depressional Area	50 100%	0.0	0.0	
	99 Description		18 Peat Spots	50 100%	0.0	0.0	
					18.0	0.0	
	Group ID: 127028755		10.83 Acres x	350.0 / acre x	1.0000 x	18.0 % =	682

No: 4	45.00 Acres	Soil: 80	Pasture	Dryland Pasture			
				%Fld	NPR	ICP	
	81 Native		32 32 Ac/AU	50 100%	15.0	0.0	
	99 Description		15 Reverting	50 100%	0.0	0.0	
	99 Description		17 Depressional Area	50 100%	0.0	0.0	
	99 Description		18 Peat Spots	50 100%	0.0	0.0	
					15.0	0.0	
	Group ID: 127028756		45.00 Acres x	350.0 / acre x	1.0000 x	15.0 % =	2,363

No: 5	51.00 Acres	Soil: 80	Pasture	Dryland Pasture			
				%Fld	NPR	ICP	
	81 Native		60 60 Ac/AU	50 100%	6.5	0.0	
	99 Description		9 Trees	50 100%	0.0	0.0	
					6.5	0.0	
	Group ID: 127028757		51.00 Acres x	350.0 / acre x	1.0000 x	6.5 % =	1,160

Areas	Asmt Code		Areas	A.U.V.		
Parcel: 152.83	237	100%	Arable Dry:	40.00	5,166	<b>Total: A.U.V. 9,676</b>
@ F/L Rates: 149.83			Arable Irr:	0.00	0	
			Pasture Dry:	109.83	4,510	<b>F.A.V. 9,100</b>
			Pasture Irr:	0.00	0	
			Waste:	0.00	0	



August 2, 2022

Soil Landscape Polygons

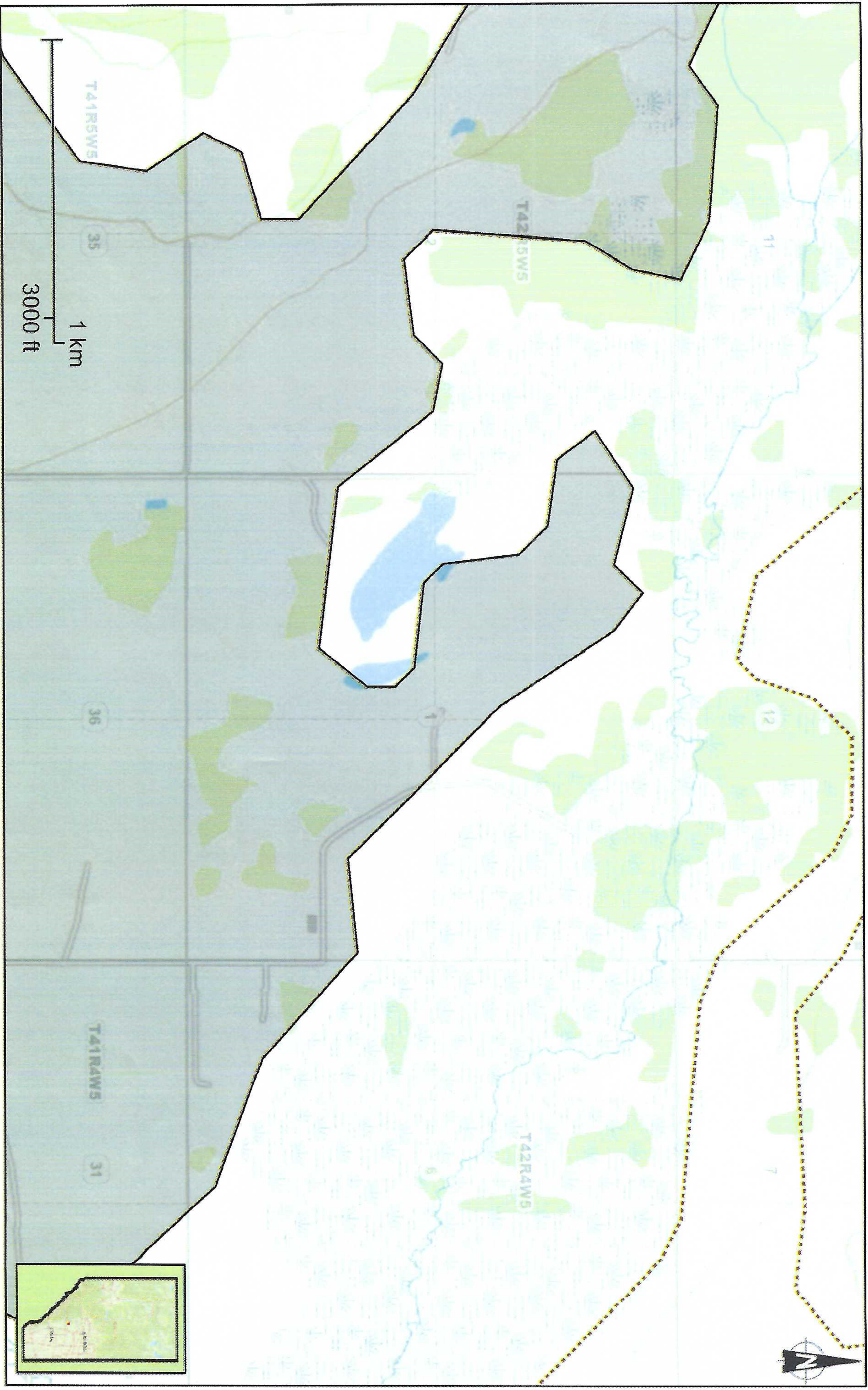
Scale 1:36,112

1 inch = 3009.33 feet


1 cm = 361.12 metres

Map centre at latitude +52.593°N and longitude -114.587°E

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, GN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community  
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August 2, 2022

 Soil Landscape Polygons

Scale 1:18,056

1 inch = 1504.66 feet

1 cm = 180.56 metres

Map centre at latitude +52.589°N and longitude -114.591°E

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community  
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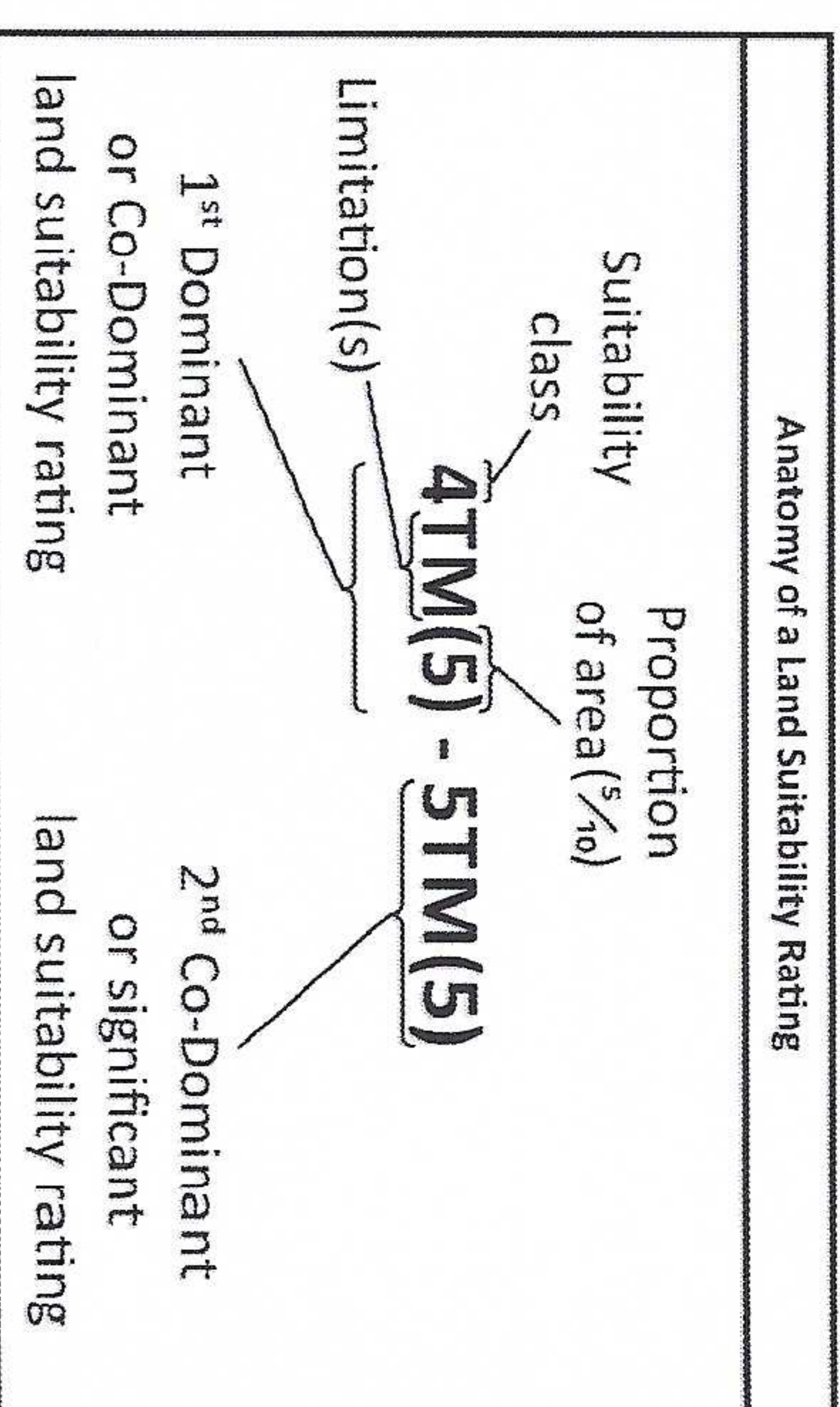
# Land Suitability Rating System (LSRS) ‡

Suitability Definitions	
Class	Limitation
1*	none to slight
2	slight
3	moderate
4	severe
5	very severe
6	extremely severe
7	unsuitable
NR	Not Rated**

\*LSRS is a national rating system and due to climate, Alberta has no Class 1 land

\*\*Not rated includes areas such as water bodies or disturbed land (eg. gravel pits)

Land Suitability Rating System Restrictions and Limitations			
General Restriction	Subclass	Code	Limitation
C – CLIMATE	Temperature	H	Inadequate heat units for the optimal growth.
	Moisture	A	Inadequate moisture for the optimal growth.
	Water holding capacity/texture	M	Crops are adversely affected by lack of water due to inherent soil characteristics.
	Soil structure	D	Crops are adversely affected either by soil structure that limits the depth of rooting, or by surface crusting that limits the emergence of shoots.
	Organic matter	F	Mineral soil with a low organic matter content in the Ap or Ah horizon.
	Depth of topsoil	E	Mineral soil with a thin Ap or Ah horizon.
	Soil reaction	V	Soils with a pH value either too high or too low for optimal growth.
	Salinity	N	Soils with amounts of soluble salts sufficient to have an adverse effect on growth.
	Sodicity	Y	Soils having amounts of exchangeable sodium sufficient to have an adverse effect on soil structure and/or growth.
	Organic surface	O	Mineral soils having a peaty surface layer up to 40 cm thick.
S – SOIL	Drainage	W	Soils in which excess water (not due to inundation) limits the production.
	Organic soil temperature	Z	Additional temperature limitation associated with organic soils.
	Rock	R	Soils having bedrock sufficiently close to the surface to have an adverse effect on production.
	Degree of decomposition or fibre content	B	Organic soils in which the degree of decomposition of the organic material is not optimum for production.
	Depth and substrate	G	Shallow organic soils with underlying material that is not optimum for production.
	Slope	T	Landscapes with slopes steep enough to incur a risk of water erosion or to limit production.
	Landscape pattern	K	Land areas with strongly contrasting soils and/or non-arable obstacles that limit production or substantially impact management practices.
	Stoniness and coarse fragments	P	Land that is sufficiently stony or gravelly so as to hinder tillage or limit production.
	Wood content	J	Organic soils with a content of wood or of Eriophorum sp. sufficient to limit production.
	Inundation	I	Land areas subject to inundation or flooding that limits production.
L – LANDSCAPE			



Rating	Explanation
2MT(10)	100% of the area is Class 2 land indicating slight limitations to growth. The limitations are caused by water-holding capacity of soils and slope conditions.
4TM(5) - 5TM(5)	50% of the area is Class 4 and 50% of the area is Class 5 indicating severe and very severe limitations to growth. The limitations are caused by slope conditions and water-holding capacity of soils.
4M(8) - 7NW(2)	80% of the area is Class 4 indicating a severe limitation to growth caused by water-holding capacity of soils. 20% of the area is unsuitable with limitations due to soil salinity and drainage.

‡For a more detailed explanation of the LSRS, go to: <http://sis.agr.gc.ca/cansis/publications/manuals/1995-lsrs/lrsr.pdf>