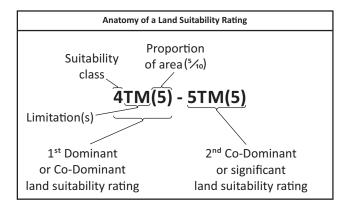
Land Suitability Rating System (LSRS)[‡]

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 <u>no</u> 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	Н	Inadequate heat units for the optimal growth.		
	Moisture	А	Inadequate moisture for the optimal growth.		
S – SOIL	Water holding capacity/texture	М	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	Е	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 suffcient to have an adverse effect on soil structure and/or growth.		
	Organic surface	0	Mineral soils having a peaty surface layer up to 40 cm thick.		
	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	В	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.		
L – LANDSCAPE	Slope	Т	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 onstacles that limit production or substantially impact management practices.		
	Stoniness and coarse fragments	Р	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 <i>sp.</i> sufficient to limit production.		
	Inundation	I	Land areas subject to inundation or flooding that limits production.		



Examples of Land Suitability Ratings				
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.			