



Forage and Grassland Research and Development at Agriculture and Agri-Food Canada

Update for CFGA 2019



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

Canada

8 November 2019

AAFC Staff Located at Research and Development Centres, Farms, and Sites

Kentville, NS

- Forage Agronomy • *Kathleen Glover, Ph.D., P.Ag.*
- Forage Breeding and Agronomy • *Yousef Papadopoulos, Ph.D., M.B.A., P.Ag.*

Lacombe, AB

- Beef Production Systems • *Hushton C. Block, Ph.D.*
- Forage and Pasture Agronomy, Crop Physiology • *Vern Baron, Ph.D.*
- Integrated Forage Crops Management • *Nityananda Khanal, Ph.D., P.Ag. (Beaverlodge)*

Lethbridge, AB

- Forage Biotechnology • *Stacy Singer, Ph.D.*
- Forage Breeding • *Surya Acharya, Ph.D., FICN*

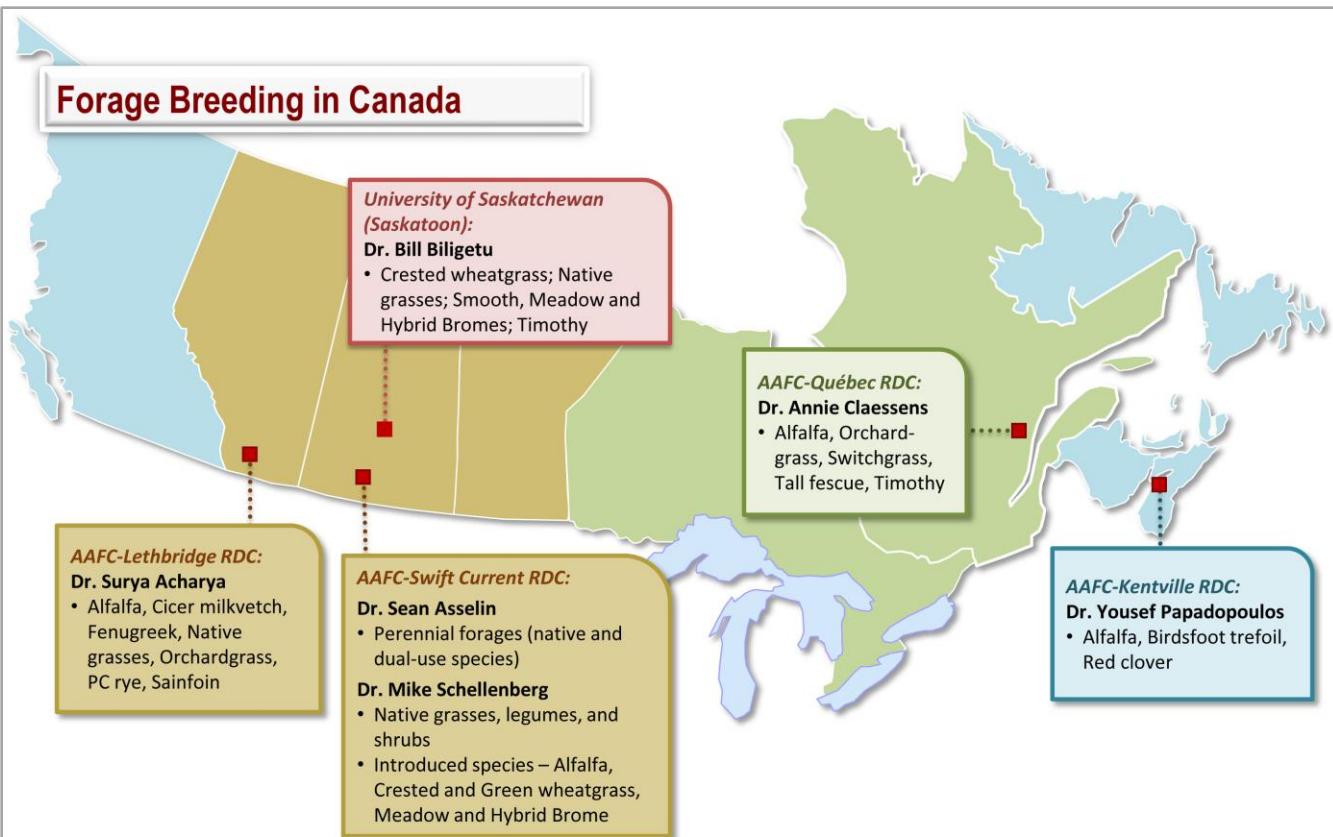
Québec, QC

- Agronomy and Crop Physiology • *Marie-Noëlle Thivierge, Ph.D.*
- Ecophysiology and Agronomy • *Gilles Bélanger, Ph.D.*
- Forage and Biomass Crops Breeding • *Annie Claessens, Ph.D.*
- Forage Biology • *Julie Lajeunesse, M.Sc. (Normandin)*
- Forage Crop Genetics • *Solen Rocher, Ph.D.*
- Forage Physiology and Biochemistry • *Annick Bertrand, Ph.D.*
- Molecular Plant Pathology • *Patrice Audy, Ph.D.*
- Nutritional Value of Ruminant Feed • *Gaëtan Tremblay, Ph.D.*

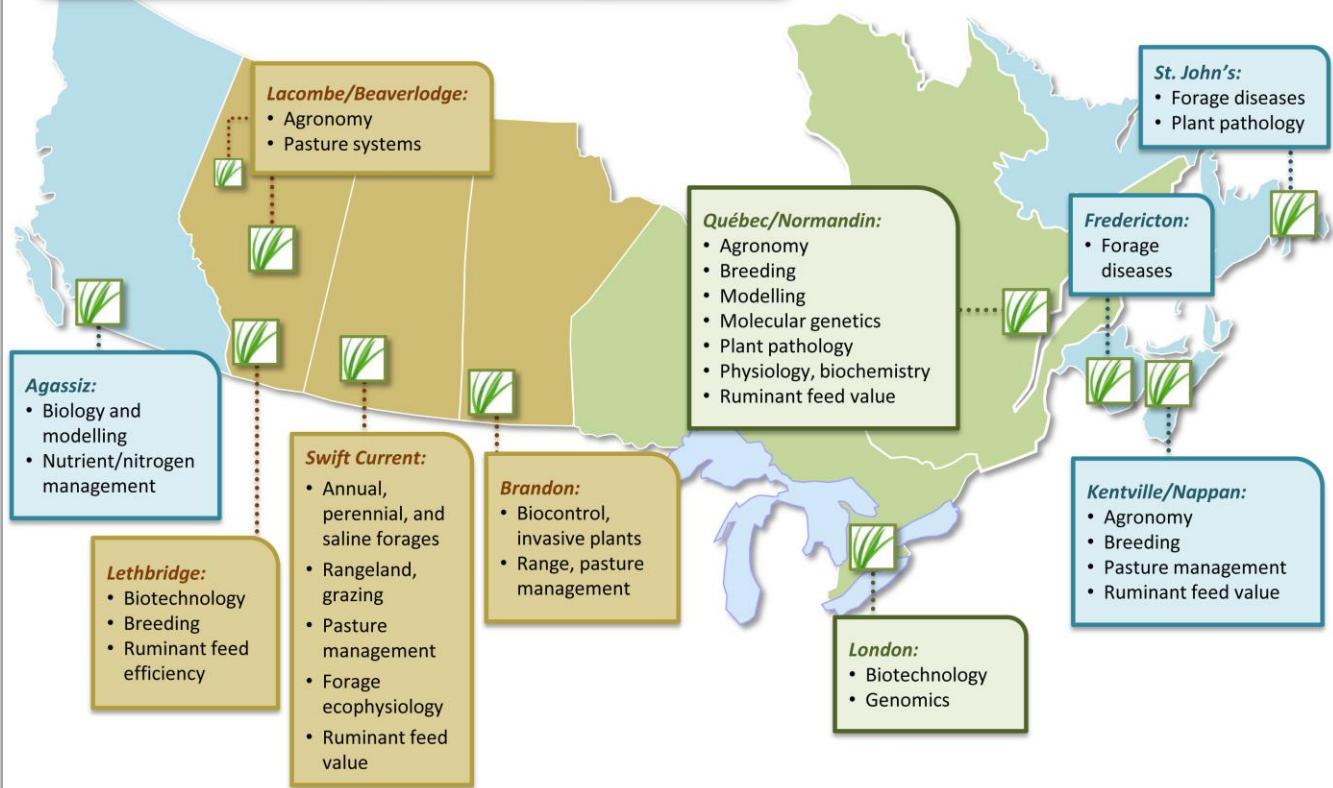
Swift Current, SK

- Forage Ecophysiology • *Jillian Bainard, Ph.D.*
- Grazing Management and Ruminant Nutrition • *Alan Iwaasa, Ph.D.*
- Perennial Forage Breeding • *Sean Asselin, Ph.D.*
- Range and Forage Biology • *Bill Houston, M.Sc. (Regina)*
- Range and Forage Biology • *Kerry LaForge*
- Range and Forage Biology • *Dustin Ostrander*
- Range and Forage Plant Ecology • *Michael Schellenberg, Ph.D., P.Ag.*

Forage Breeding in Canada



Research and Development Capacity at AAFC



Projects Underway in Forage and Grassland (as of October 2019)

	Project Lead	AAFC RD Centre Location	Project Title
	ALBERTA		
1	Khanal, Nityananda	Lacombe	Evaluation of economic and agro-ecological merits of diverse cropping sequences with perennial forage seed and annual field crops
2	Acharya, Surya	Lethbridge	Selection of clonal propagated alfalfa and sainfoin plants under grass or legume competition
3	Beauchemin, Karen	Lethbridge	Mitigating methane emissions to improve the environmental performance of forage-fed ruminants
4	Singer, Stacy	Lethbridge	Unraveling the molecular mechanisms behind abiotic stress tolerance in <i>Medicago sativa</i> and adoption of advanced molecular breeding technology for alfalfa improvement
	NOVA SCOTIA		
5	Glover, Kathleen	Kentville	Novel Biological for Mitigation of Abiotic Stresses in Forage Legumes and Reduced Methane Emissions by Ruminants
	ONTARIO		
6	Lapen, David	Agri-environment Division, Ottawa	Emerging ecosystem services of landscape features and biodiverse cropping systems
7	Austin, Ryan	London	An integrated systems resource of regulatory sites, chromatin dynamics and metabolomic variance for improved water stress response strategies in forage crops.
	QUEBEC		
8	Bertrand, Annick	Quebec	Leverage and exploit Rhizobium Microbial Collection as a cold soil inoculant source for forage legume crops: clover, birdsfoot trefoil, and sainfoin.
9	Lajeunesse, Julie	Quebec	Storage of carbon with different governed grazing of complex forage mixtures. Stocker du C avec différentes régies de paissance de mélanges fourragers complexes
10	Rocher, Solen	Quebec	Molecular breeding of alfalfa (<i>M. sativa</i>) and red clover (<i>T. pratense</i>) for superior freezing tolerance.
11	Royer, Isabelle	Quebec	Bioenergy crop production in marginal soils: Capitalizing on organic residues and soil microflora
	SASKATCHEWAN		
12	Houston, Bill	Regina	Accurate Mapping of Range and Forages at Ecoregion and Provincial Scales
13	Bainard, Jillian	Swift Current	Determining the role of endopolyploidy as an adaptation to stress response in forage crops
14	Bainard, Jillian	Swift Current	Development of best management practices for residue and fertility management of annual polycultures
15	Bainard, Jillian	Swift Current	Assessing the impact of grazing annual forage cover crops in an integrated crop-livestock system
16	Bainard, Jillian	Swift Current	Evaluation of forage Galega (<i>Galega orientalis LAM.</i>) as a new forage legume in pure and grass-legume mixed stands
17	Bainard, Jillian	Swift Current	Assessing the impact of grazing annual forage cover crops in an integrated crop-livestock system
18	Bainard, Luke	Swift Current	Long term impact of annual forage polycultures and fertility management on soil health and functioning
19	Iwaasa, Alan	Swift Current	Development of best management practices for cost-effective and successful establishment of saline forages for Saskatchewan
20	Iwaasa, Alan	Swift Current	New forage legumes for sustainable summer pasture mixtures in Saskatchewan
21	Iwaasa, Alan	Swift Current	Evaluation of polycrop mixtures for soil health, grazing capacity and economics
22	Schellenberg, Michael	Swift Current	Growing winter annual forages in mixtures: assessment of agricultural impacts in a semiarid environment.

Contact Information

Name	Location RDC	Electronic mail	Telephone
Forages – Primary Focus			
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Knowledge Transfer			
Dykens, Tanya	Kentville, NS	tanya.dykens@canada.ca	(506) 777-6065