

Prairie Pesticide Minor Use Consortium Overview

Representative Forage Grasses Project Update

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Minor Use Procurement Officer



Prairie Pesticide Minor Use Consortium Overview





Prairie Pesticide Minor Use Consortium Overview

- What is the **Prairie Pesticide Minor Use Consortium (PPMUC)**?
- What has PPMUC done for forage seed producers?
 1. Pest control product registrations
 2. Feeding aftermath of forage seed production



Prairie Pesticide Minor Use Consortium

Role of PPMUC and MUPO

- Facilitates the registration of pest management products
 - **Minor Use Pesticides** (MUPs)
- Minor Use Procurement Officer (MUPO)
 - Works for 11 grower members
 - Contracted through Strategic Vision Consulting Ltd
 - Peace Region Forage Seed Growers Association



Prairie Pesticide Minor Use Consortium Federal Programs and Processes (I)

- Multiple ministries
- Health Canada
 - **Pest Management Regulatory Agency (PMRA)**

- Multiple programs
 1. Minor Use Pesticides Program (MUPP)
 - Agriculture and Agri-Food Canada (AAFC)
 2. **User Requested Minor Use Label Expansion (URMULE)**
 - Add new use to a pesticide label
 - Already registered in Canada on at least one crop



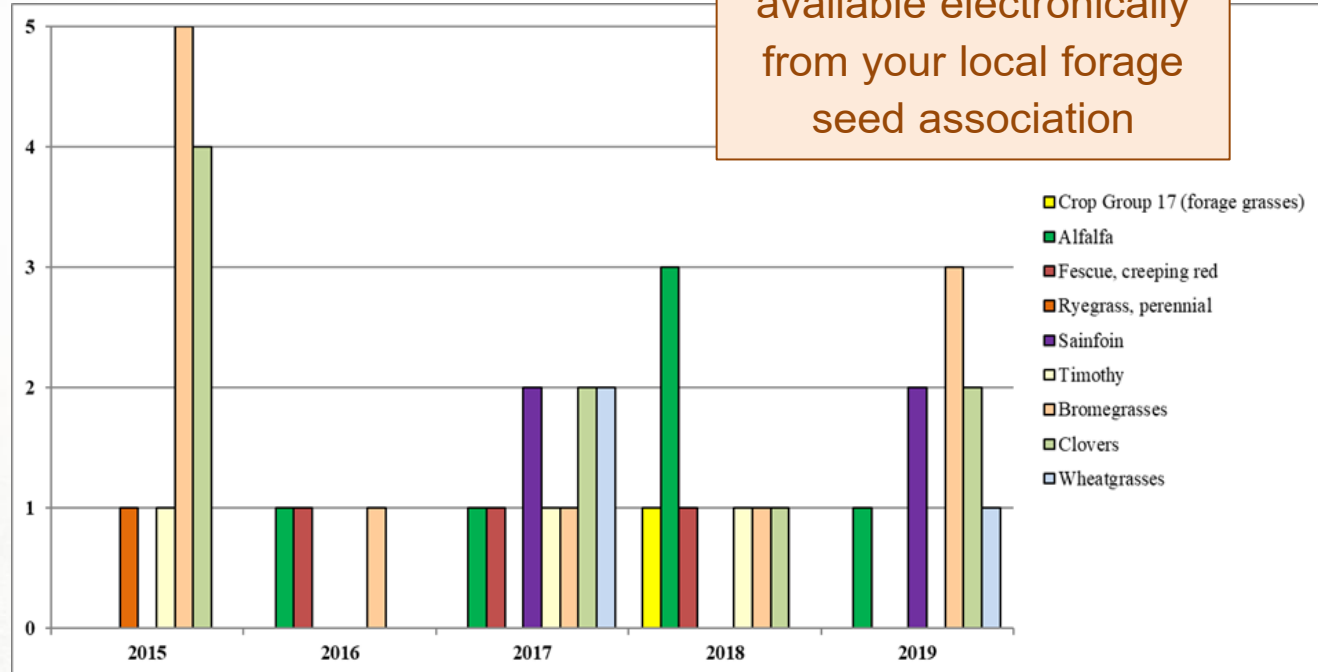
Prairie Pesticide Minor Use Consortium Federal Programs and Processes (II)

3. User Requested Minor Use Registration (URMUR)
 - New active ingredient and end-use product
 - Registered in a member country of the Organisation for Economic Co-operation and Development (OECD)
 - **Sponsor pays for development of data package**
4. Emergency Use Registration (EUR)
 - Emergency control of pest infestations
 - No other efficacious, registered pesticide or alternative method of control exists
 - **Cost of development of EUR can range up to \$8,000**
 - **Sponsored/submitted by Provincial Minor Use Coordinator**

Prairie Pesticide Minor Use Consortium Approved URMULEs (2015-2019)

41 URMULEs for forage crops

Detailed project updates
available electronically
from your local forage
seed association



Feeding aftermath of forage seed production





Prairie Pesticide Minor Use Consortium Feeding Aftermath of Forage Seed Production (I)

- **Aftermath** – material left in field after harvest
 - Chaff and stalk material discarded from combine during seed harvesting operation
 - All other forage plant material left in field after harvest
 - Seed screenings from seed cleaning plants
 - Allows livestock to graze in forage seed fields
- Producers asked PMRA for clarification
 - Aftermath and seed plant residue may be fed to livestock when feeding of forage and hay to livestock are labelled

Prairie Pesticide Minor Use Consortium Feeding Aftermath of Forage Seed Production (II)

Update on the feeding of the aftermath
of forage grass and alfalfa seed production to livestock

Available electronically
from your local forage
seed association

Label statements

Prepared for:

Peace Region Forage Seed Association
Alfalfa Seed Commission (Alberta)
Saskatchewan Alfalfa Seed Producers Development Commission
Saskatchewan Forage Seed Development Commission
Manitoba Forage Seed Association
Corteva Agriscience™, Agriculture Division of DowDuPont™

by Strategic Vision Consulting Ltd
and the Prairie Pesticide Minor Use Consortium

May 6, 2019



Prairie Pesticide Minor Use Consortium Feeding Aftermath of Forage Seed Production (III)

- Test case submission to PMRA in June 2018
- Stellar™ XL Herbicide
- Feeding of the aftermath of all forage grass seed production in Canada to livestock
- **Waiver request** based on the substitution of forage grasses commonly grown in Canada for the Representative Crops in Crop Group 17 (CG17)

Representative Forage Grasses Project Update





Representative Forage Grasses Project Strategic Vision Consulting Ltd

- Based on waiver request submission for Stellar™ XL
- What is a **Crop Group**?
- What is a **Maximum Residue Limit**?
- What is a **Representative Crop** (Rep Crop)?
- How does a PMRA Waiver Request work?
- What did we provide to the Pest Management Centre (PMC) and the PMRA?
- What would we like the PMC and the PMRA to do?



Representative Forage Grasses Project Strategic Vision Consulting Ltd

- Develop a standard set of representative forage grasses for Canada for Crop Group17 (CG 17)
- The Peace Region Forage Seed Association
- Saskatchewan Forage Seed Development Commission
- Manitoba Forage Seed Association
- Corteva Agriscience
- Pest Management Centre of AAFC
- Pest Management Regulatory Agency



Representative Forage Grasses Project

Crop Group 17

- Seeking PMRA approval to feed CG 17 forage grass seed aftermath to livestock
 - CG 17 – Forage, Fodder and Hay of Grasses
 - Any grass, Gramineae family (either green or cured) except sugarcane and those included in the cereal grains CG15, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage
 - 600 genera
 - 10,000 species
 - Fifth largest of the plant families



Representative Forage Grasses Project Maximum Residue Limit

- CGs used to establish a Maximum Residue Limit (MRL) for pesticides
 - MRL is set for representative crops in a CG
 - All crops in CG use MRL of representative crops
 - MRLs not required to feed forage to livestock in Canada
 - Required in the United States and the European Union
 - A comparable process allows aftermath of forage grass seed crops to be fed to livestock in Canada
 - Must be labelled for feeding

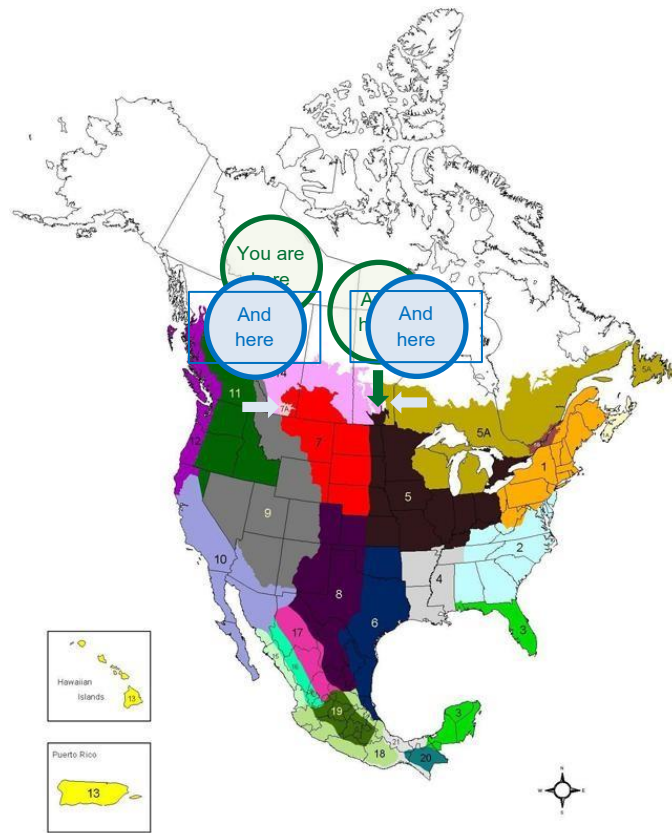
Representative Forage Grasses Project Crop Group 17 Representative Crops





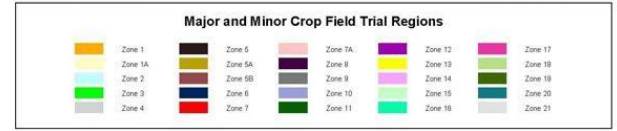
Representative Forage Grasses Project PRMA request for data (I)

- Summary of forage grasses grown for seed in Canada
 - By species and by area seeded
 - Summarized by North American Major and Minor Crop Field Trail Region

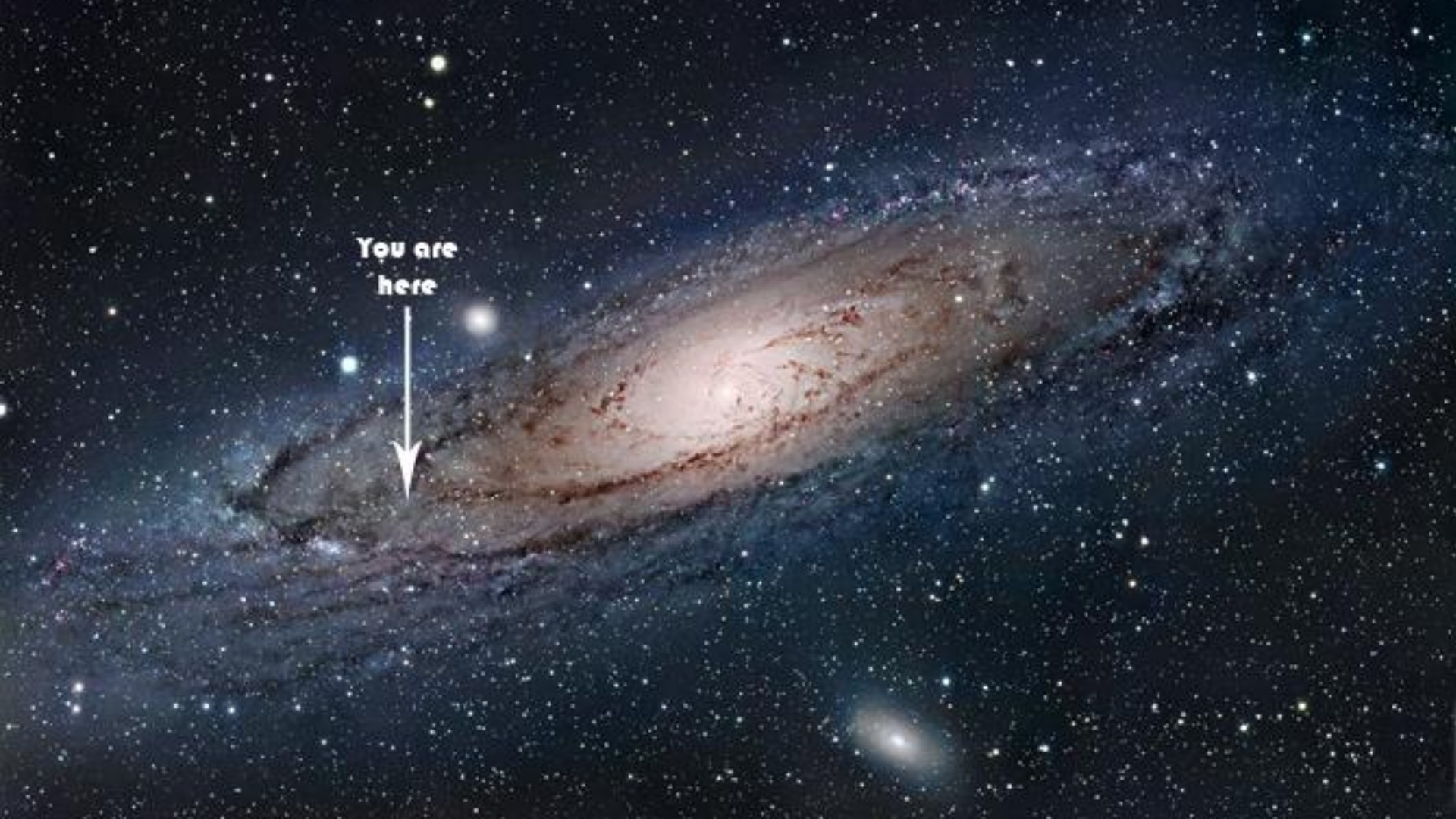


Scale 1 : 28 000 000
 250 0 250 500 Kilometers

Lambert Conformal Conic Projection



**You are
here**





DON'T PANIC



Representative Forage Grasses Project PRMA request for data (II)

- Majority of forage grass seed grown in Canada is in AB, MB, SK and the Peace Region of BC
- About 408,000 acres of grass and legume forage seed in production in Canada in 2016
- About 98 percent grown in AB, BC, MB and SK

Representative Forage Grasses Project

Forage Grass Seeded in Western Canada

Forage Grass	AB/BC*	SK*	MB*	Total*
Creeping red fescue	60,000	0	0	60,000
Timothy	30,000	5,250	30,000	65,250
Perennial ryegrass	1,500	1,500	32,000	35,000
Bromegrasses	10,000	1,200	550	11,750
Wheatgrasses	7,000	1,300	0	8,300
Tall/meadow fescue	500	0	5,000	5,500
Annual ryegrass	0	1,000	5,500	6,500
Total	109,000	10,250	73,050	192,300

Source: Calvin Yoder, Forage Seed Crops Agrologist

* Acres in 2016

Representative Forage Grasses Project

Convert data to meet PMRA specifications

Forage grass species	AB/BC Peace (ha)	SK (ha)	MB (ha)	ON (ha)	Total (ha)	Area in hectares						
						Zone 1	Zone 1a	Zone 5	Zone 5a	Zone 7	Zone 7a	Zone 14
Bluegrass, Kentucky					0	0	0	0	0	0	0	0
Bromegrasses	4,049	486	223	108	4,865	0	0	108	223	10	0	4,525
Bromegrass, hybrid	121	631			753	0	0	0	0	13	0	740
Bromegrass, meadow	1,822	574			2,396	0	0	0	0	11	0	2,384
Bromegrass, smooth	4,787	213			5,000	0	0	0	0	4	0	4,996
Fescues	24,696	0	2,024	0	26,721	0	0	0	2,024	0	0	24,696
Fescue, altai					0	0	0	0	0	0	0	0
Fescue, chewings					0	0	0	0	0	0	0	0
Fescue, creeping red	24,291				24,291	0	0	0	0	0	0	24,291
Fescue, hard	202				202	0	0	0	0	0	0	202
Fescue, meadow	101		1,012		1,113	0	0	0	1,012	0	0	1,011
Fescue, tall	101		1,012		1,113	0	0	0	1,012	0	0	1,011
Foxtail, meadow					0	0	0	0	0	0	0	0
Millets					0	0	0	0	0	0	0	0
Needlegrass, green					0	0	0	0	0	0	0	0
Orchardgrass				431	431	0	0	431	0	0	0	0
Reed canarygrass					0	0	0	0	0	0	0	0
Ryegrasses	607	1,012	15,182	108	16,909	0	0	108	15,182	20	0	1,599
Ryegrass, altai wildrye					0	0	0	0	0	0	0	0
Ryegrass, annual	0	405	2,227		2,632	0	0	0	2,227	8	0	397
Ryegrass, perennial	607	607	12,955		14,170	0	0	0	12,955	12	0	1,202
Ryegrass, Russian wildrye					0	0	0	0	0	0	0	0
Ryegrass, wildrye					0	0	0	0	0	0	0	0
Timothy	12,146	2,126	12,146	431	26,848	0	0	431	12,146	43	0	14,229
Wheatgrasses	2,834	526	0	0	3,360	0	0	0	0	11	0	3,350
Wheatgrass, crested	2,024	271			2,296	0	0	0	0	5	0	2,299
Wheatgrass, intermediate		196			196	0	0	0	0	4	0	192
Wheatgrass, northern					0	0	0	0	0	0	0	0
Wheatgrass, pubescent		6			6	0	0	0	0	0	0	6
Wheatgrass, slender	405	880			1,285	0	0	0	0	18	0	1,267
Wheatgrass, streambank					0	0	0	0	0	0	0	0
Wheatgrass, tall					0	0	0	0	0	0	0	0
Wheatgrass, western					0	0	0	0	0	0	0	0
					79,135							



Representative Forage Grasses Project

Forage Grasses Grown for Seed in Canada

- Fescues 34 percent (mostly creeping red fescue)
- Timothy 33 percent
- Ryegrasses 21 percent (mostly perennial ryegrass)
- Mostly grown in Crop Zones 14, followed by 5a, 5 and 7



Representative Forage Grasses Project

Potential outcomes

- PMRA may focus forage residue trials proportionally in Crop Zones 14, 5a, 5 and 7
- Fescues, timothy and ryegrasses, and possibly bromegrasses and wheatgrasses, may become Canadian representative crops for CG17

Representative Forage Grasses Project

Forage grass seed producer benefits (I)

- Stellar™ XL submission
 - May allow feeding of aftermath of all forage grasses treated with florasulam, fluroxypyr and MCPA
- Canadian Minor Use Pesticide Priority Setting Workshop
 - Choices over five years included four forage grasses treated with florasulam, fluroxypyr, halauxifen and MCPA

Forage	Product	bromoxynil	clopyralid	florasulam	fluroxypyr	halauxifen	MCPA
Brome-grasses	Enforcer M	x			x		x
Brome-grasses	Cirpreme XC		x	x		x	
Brome-grasses	Stellar XL			x	x		x
Fescues	Cirpreme XC		x	x		x	
Rygrass, perennial	Frontline XL (Stellar XL)			x			x
Timothy	Paradigm			x		x	
Timothy	Pixxaro				x	x	x



Representative Forage Grasses Project

Forage grass seed producer benefits (II)

- PMRA may use fescues, timothy and ryegrasses, and possibly bromegrasses and wheatgrasses, as Canadian representative forage grass crops for CG17
- Florasulam, fluroxypyr, halauxifen and MCPA may be used on all forage grasses in CG17
- No feeding restrictions for any labelled use pattern

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