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**OTHER AVAILABLE GUIDES:**
- Seed Guide
- Seed Protection Guide
- Essential Nutrients Guide
- Livestock Mineral and Supplement Guide
- Grain Storage Equipment Guide
At UFA our history is deeply rooted in understanding and supporting the needs of Western Canadian farmers. In fact, UFA was founded by farmers and ranchers in order to serve their specific needs to succeed.

Although many things have changed and evolved in our industry one thing remains the same: at UFA, we understand the challenges and opportunities that producers face, and we continue to provide the tools and services to get the job done right.
Nutrition is the foundation for herd health. That’s why at UFA we work hard to provide a complete, exclusive nutritional program designed to meet the needs of your operation, and to optimize your herd’s health and productivity.

With ProStock®, the entire nutritional demands of your livestock are covered. From forage seed to minerals to milk replacers, our UFA ProStock® provides the right nutrition for your herd, year round.

- **The ProStock® Forage System** When it comes to forage seed we know that producers face a diversity of conditions, like low lying areas with high moisture, or fields with high salinity soil conditions. This system provides a variety of forage options for your cattle.

- **The ProStock® Mineral Program** covers every life stage and season to ensure that your cattle are healthy and productive. From loose minerals to mineral tubs, the program provides minerals in the proper ratios of macro and micro minerals.

- **ProStock® Milk Replacer** is designed to ensure that your livestock get off to a healthy start, delivering the right nutrients at the right time.
FORAGE SEED

Feed costs are always top of mind when it comes to the bottom line. So choosing a forage mixture designed to withstand the challenges of your growing environment, while also maximizing growth during a short growing season, is key for cattle producers in Western Canada.

At UFA, our team of knowledgeable pasture and forage specialists will carefully select the right forage package that will meet the needs of your operation.
**ProStock™ HM Pasture Mix** 14 lbs/acre 1131885

- **Features:**
  - Blend free blend with 15% Cicer Milkvetch for the higher moisture areas of the province
  - Combination of Meadow Brome and Orchardgrass combined with limited timothy for a high quality forage program
  - Well suited to hay or pasture production

- **Composition:**
  - 40% Fleet Meadow Brome
  - 20% Yukon Orchardgrass
  - 20% WH Orchardgrass
  - 15% Cicer Milkvetch
  - 5% Titan Timothy

---

**ProStock™ HM Hay Blend** 13 lbs/acre 1131887

- **Features:**
  - Blend of 70% multifoliate alfalfa and 30% grass, blended for a high-quality forage offering
  - Excellent for a 2 or 3 cut system and adapted to the mid- to high-moisture areas of the province in addition to irrigation
  - Quick regrowth on the Cornerstone Alfalfa allows for the grasses to be vegetative when harvested

- **Composition:**
  - 70% Cornerstone Alfalfa
  - 15% Carlton Smooth Bromegrass
  - 15% Yukon Tall Fescue

---

**ProStock™ DL Pasture Mix** 12 lbs/acre 1131886

- **Features:**
  - Blend designed for the drier regions of Alberta
  - Combined performance of Meadow Brome, Kirk Crested Wheat, Orchardgrass and Intermediate Wheat Grass for more season-long forage production
  - 10% of a creeping rooting alfalfa added for nitrogen fixation and to enhance the palatability
  - Well-suited to hay or pasture production

- **Composition:**
  - 40% Fleet Meadow Brome
  - 25% Yukon Tall Fescue
  - 15% Kirk Crested WH
  - 10% Runner Alfalfa
  - 10% Intermediate WH

---

**ProStock™ DL Hay Blend** 10 lbs/acre 1131888

- **Features:**
  - Blend of ProStock Choice Alfalfa Blend combined with 55% grass for maximum production under mid- to dry-moisture conditions
  - Utilize 15% Crested Wheat for early growth with Smooth Brome and Orchardgrass for enhanced palatability
  - Great blend for range cows for a winter feeding program

- **Composition:**
  - 45% ProStock Hay Choice Blend Alfalfa
  - 20% Carlton Smooth Brome
  - 20% Yukon Tall Fescue
  - 15% Kirk Crested WH
ProStock™ Low Area Blend 12 lbs/acre 1133471

Features:
- Combination of grasses that are wet tolerant
- Persistent blend to advance grass growth in wet areas and reduce moisture levels
- Ability to grow in standing water or areas which are flooding and moist for a short period

ProStock™ Extender Forage 10 lbs/acre 1133473

Features:
- Blend of annual forages for swath grazing
- Opportunity to double crop under irrigation after a silage crop
- Seed this blend in combination with an annual cereal crop
- Excellent source of nutrition for late-fall and early-winter grazing

ProStock™ Saline Area Blend 14 lbs/acre 1133472

Features:
- Blend of five saline tolerant grass species
- Formulated for varied EC levels in your fields
- Excellent blend for stimulating grass production and reducing saline levels in a discharge area

ProStock™ Soil Builder 8-10 lbs/acre 1133474

Features:
- Annual species to build soil aggregate structure
- Clover inclusion to add in building nitrogen levels in the soil profile
- Great blend to build soil armor and increase organic matter
- Seed into planned rest areas or as a double crop after silage
### Cattlemans 483024
- 40% MBA Meadow Bromegrass
- 15% Kirk Crested Wheatgrass
- 15% AC Grazeland Br Alfalfa
- 15% Carnival Tall Fescue
- 8% Dahurian Wildrye
- 7% Slender Wheatgrass

**Seed at 6.5 kg/14 lb per acre**
Ideal grassland pasture. Quick regrowth, good drought tolerance and season long growth. Built for Beef!

### HayGraze 1126968
- 60% AC Grazeland Br Alfalfa
- 30% AC Success Hybrid Bromegrass
- 10% Athos Orchardgrass

**Seed at 6 kg/13 lb per acre**
Rapid regrowth and great quality. Use as multi-cut hay and still have extra to graze in the fall.

### Stockmans 482980
- 35% MBA Meadow Bromegrass
- 20% Athos Orchardgrass
- 20% Oxley II Cicer Milkvetch
- 10% Carnival Tall Fescue
- 10% Polim Perennial Ryegrass
- 5% Richmond Timothy

**Seed at 6.5 kg/14 lb per acre**
Widely adaptable. A well balanced mixture. non-bloating Cicer Milkvetch utilized to increase quality.

### HayGraze Dry 1126969
- 50% AC Grazeland Br Alfalfa
- 40% MBA Meadow Bromegrass
- 10% Kirk Crested Wheatgrass

**Seed at 5 kg/13 lb per acre**
Obtain superior yield and quality in drier conditions without sacrificing bloat safety.

### PasturePro 531927
- 30% MBA Meadow Bromegrass
- 20% AC Grazeland Br Alfalfa
- 15% Athos Orchardgrass
- 10% Carnival Tall Fescue
- 10% Polim Perennial Ryegrass
- 10% Mahulena Festulolium
- 5% Richmond Timothy

**Seed at 5.5 kg/13 lb per acre**

### Horsemans 837722
- 35% MBA Meadow Bromegrass
- 20% Forage type Kentucky Bluegrass
- 20% Athos Orchardgrass
- 15% Richmond Timothy
- 10% Polim Perennial Ryegrass

**Seed at 7 kg/15 lb per acre**
Well balanced. Stands up well to heavy grazing. Excellent Spring, Summer and Fall growth. Adaptable and suitable for all acreage ruminants.
RangePro 855293
- 50% MBA Meadow Bromegrass
- 10% Fairway Crested Wheatgrass
- 10% Athos Orchardgrass
- 10% Carnival Tall Fescue
- 10% Mahulena Festulolium
- 5% Richmond Timothy
- 5% Swift Russian Wildrye

SaltPro 855239
- 20% Radisson Smooth Bromegrass
- 20% Tall Wheatgrass
- 15% Dahurian Wildrye
- 15% Slender Wheatgrass
- 10% Carnival Tall Fescue
- 10% Assalt ST Alfalfa
- 10% Norgold Sweet Clover

Drylands 482855
- 40% MBA Meadow Bromegrass
- 20% Kirk Crested Wheatgrass
- 20% Pubescent Wheatgrass
- 10% Dahurian Wild Ryegrass
- 10% PICKSEED 3006 Alfalfa

Lowlands 522303
- 30% Meadow Foxtail
- 25% Carnival Tall Fescue
- 15% Richmond Timothy
- 10% Boreal Creeping Red Fescue
- 10% Bellevue Reed Canarygrass
- 10% Dawn Alsike Clover

DairyPro 482935
- 90% Vision Alfalfa
- 10% Richmond Timothy

Seed at 6.5 kg/14 lb per acre
Long-term pasture with no legume. Adapted to the drier areas of the Prairies.

Seed at 6 kg/14 lb per acre
Formulated for salinity prone pastures.

Seed at 6.5 kg/14 lb per acre
Use for long term production Excellent persistence season-long growth.

Seed at 6 kg/14 lb per acre
Use for long-term production Excellent persistence season-long growth

Seed at 6 kg/13 lb per acre
Highest yielding for regular rotations. Extremely adaptable with multiple disease resistance.

Seed at 7 kg/15 lb per acre
Well suited for dry sandy soils. Great for single-cut hay systems that require fall grazing.
## Forage Maturity Matrix

<table>
<thead>
<tr>
<th>SPECIES</th>
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<th>6</th>
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<td>Medium Late</td>
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<td>Orchardgrass</td>
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<td>Early</td>
<td>Medium</td>
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<td>Tall Fescue</td>
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<td>Early</td>
<td>Medium</td>
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<td>Festulolium</td>
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<td>Medium</td>
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<td>Annual (Italian) Ryegrass</td>
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<td>Early</td>
<td>Medium</td>
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1: Earliest to 10: Latest; 
= Maturity range of available species

Source: DLF Pickseed
To get the most out of a forage stand that may be an important feed source for livestock for several years, a strong establishment is key to success.

The cost of good quality seeds and other inputs can add up, so protect that investment with some important production practices as you prepare to put seed in the ground.

Wet or dry conditions may cause a challenge for getting a good forage establishment. Proper practices apply no matter what your growing conditions.

• Use good quality seed that tests high for germination.
• Seed into a clean, weed-free field. Especially under dry conditions, “exceptional weed control” is vital.
• Seed into a firm (ideally moist) seed bed to ensure proper seed-to-soil contact
• Seed shallow. Ideally the typically small forage seeds should be placed no deeper than in the top quarter inch of soil.
• Apply proper fertility. Have soil samples from the field analyzed and apply proper fertility as recommended for forage crops.
Cost-effective forage production for beef cattle nutrition requires a two-step process: 1. providing the appropriate nutrients to feed the plant to optimize its growth, and 2. feeding that plant to the animal to optimize their growth.

Both soil and forage play an important role in your success, which is why both soil and forage testing are critical.

Soil Testing - soil testing and analysis provide an accurate picture of the nutrients available in the soil. Testing allows you to make the most of every acre by identifying nutrient deficiencies and the precise calculation of nutrient rates for increased yields and savings. Soil testing also helps ensure the efficient use of resources - water, fertilizer and input costs.

**WHY SOIL TESTING?**

- to optimize forage and crop production
- to improve the soil's nutritional balance
- to save money and conserve energy by applying only the optimal amount of fertilizer
- to aid in the diagnosis of plant culture problems
- to ensure best practices in land stewardship and sustainability by avoiding contamination caused by runoff and leaching of excess fertilizers
NUTRIENT REQUIREMENTS FOR GRASSLANDS

Although 18 mineral nutrients are essential for most plant growth, only nitrogen, phosphorous, sulfur and potassium are present in fertilizer. If your soil tests show a lack of other nutrients, it's important to correct it with the application of essential nutrients to enhance pastures and healthier forage.

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Forage testing is an essential tool to evaluate feed quality. As feed is the major input cost in cattle production, taking a sample will give you an accurate assessment of your pasture and forage health, allowing you to make best management decisions based on what nutrients are available.

Forage testing allows us to:

• Balance rations
• Reduce costs
• Improve performance and profits
• Provide an accurate picture of what the current status of forage nutrient density
• Improve future crop management if present forage quality is unsatisfactory
• Help evaluate the value of the plant material as a nutrient source and help determine equitable prices for feedstuffs based on nutritive value
WHY SHOULD I TEST MY FORAGE CROP?

The most important information that a feed test provides is an accurate report card of the crop’s protein, energy and fibre.

A basic forage analysis will:

• List the moisture content of the forage crop
• Reveal energy as total digestible nutrients (TDN), net energy (NE) and/or digestible energy (DE)
• Provide insights into crude protein values, as well as calcium and phosphorus and magnesium and potassium

Testing forages puts savings in your pocket and leads to using fewer bales of hay mixed with lower quality forages.
### Grass Properties

<table>
<thead>
<tr>
<th>Species</th>
<th>Yield</th>
<th>Feeding Value</th>
<th>Spring Growth</th>
<th>Seasonal Growth</th>
<th>Winter Hardiness</th>
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<td>Meadow Bromegrass</td>
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<td>Hybrid Bromegrass</td>
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<td>Smooth Bromegrass</td>
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<td>Orchardgrass</td>
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<td>Tall Fescue</td>
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<td>Festulolium (Fescue type)</td>
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<td>Annual (Italian) Ryegrass</td>
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<td>Reed Canarygrass</td>
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</table>
# Properties of Cover Crops

<table>
<thead>
<tr>
<th>Species</th>
<th>Winter Hardy</th>
<th>Drought Tolerant</th>
<th>Fights Compaction</th>
<th>Nitrogen Source</th>
<th>Nitrogen Scavenger</th>
<th>Erosion Control</th>
<th>Organic Matter</th>
<th>Weed Suppression</th>
<th>Bio Fumigant</th>
<th>Best Time to Plant</th>
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<tbody>
<tr>
<td>Red Clover</td>
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<td></td>
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<td>LW, SP, EF</td>
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<td>LSU, LW</td>
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<td>Tapper Radish</td>
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<td>Rapeseed</td>
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<td>LSU-F</td>
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</tbody>
</table>

- **E**: Early
- **L**: Late
- **SP**: Spring
- **SU**: Summer
- **F**: Fall
- **W**: Winter

Lowest score of character: ★★★★★
Highest score of character: ★★★★★
CORNERSTONE
14 lbs/acre 1131890
- Tap rooted variety with extreme drought tolerance
- Fine-stemmed multifoliate variety with high palatability
- Fall dormancy 4 with excellent yield and can be used in a 3 to 4 cut system
- More suited for the higher moisture areas or irrigation
- Dairy Potential

MEADOWVIEW
12 lbs/acre 1133505
- New acid tolerant alfalfa for soil pH of 4.5 to 6
- Deeply set crown structure with a strong disease package
- Excellent winter hardiness rating with strong regrowth after cutting
- Intended for the Foothills and the Peace regions of Alberta

MULTIFOLATE MIX
12 lbs/acre 1133470
- High Multifolate Expression with great regrowth
- Superior disease resistance package
- Winter hardy with a fall dormancy rating of 3
- Makes a great addition to a grass blend or a straight alfalfa stand

CHOICE BLEND
10 lbs/acre 1131889
- A blend of trifoliate, multifoliate and creeping root characteristics
- Blended variety for performance and value
- Strong traits for winter hardiness and fall dormancy blend from 2 to 4
- Well suited for the drier areas of the province or even 1 cut systems
**RICHMOND** 482837
Timothy
- Very good forage quality
- Early maturity
- Very good forage yield
- Very good spring vigour
- Very good winter hardiness

**TOWER**
Tall Fescue
- Late maturity
- Soft leaf provides very good forage quality
- Endophyte free
- Excellent disease resistance
- Very good stress tolerance

**COMTAL** 854383
Timothy
- Late maturity
- Excellent disease resistance
- Very good forage yield
- Good forage quality
- Very good winter hardiness

**SAVORY** 1126959
Tall Fescue
- Medium-late maturity
- Soft leaf provides very good forage quality
- Endophyte free
- Excellent disease resistance
- Very good stress tolerance

**MAHULENA** 1130524
Festulolium (Fescue Type)
- Tall Fescue X Perennial Ryegrass
- Late maturity & excellent forage yield
- Very good forage quality
- Endophyte free
- Very good stress tolerance & persistence

**NEW! ACHILLES**
Festulolium (Ryegrass Type)
- Meadow Fescue x Annual (Italian) Ryegrass
- Excellent forage yield in seedling year
- Excellent forage quality
- Excellent disease resistance
- Excellent seasonal growth pattern
**GRASSES**

**MBA** 1126949
Bromegrass
- Excellent forage yield
- Excellent winter hardiness
- Early spring growth
- Good forage quality
- Good seasonal growth pattern

**NEW! SUCCESSION**
Hybrid Bromegrass
- Interspecies cross of Smooth & Meadow Bromegrass
- Excellent winterhardiness
- Very good forage quality
- Early spring growth
- Good seasonal growth pattern

**RADISSON** 1130526
Bromegrass
- Excellent forage quality
- Very good winter hardiness
- Early spring growth
- Good forage yield
- Good seasonal growth pattern

**NEW! LAURA**
Meadow Fescue
- Very good spring vigour
- Excellent forage quality
- Excellent grazing tolerance
- Very good winterhardiness
- Endophyte free

**ENDURANCE** 1126972
Orchardgrass
- Medium-late maturity
- Very good forage yield
- Excellent winter hardiness
- Very good disease resistance
- Very good seasonal growth pattern

**ECHELON** 1126971
Orchardgrass
- Very late maturity
- Very good forage yield
- Excellent winter hardiness
- Very good disease resistance
- Very good seasonal growth pattern
**FORAGE GRASSES**

**FIRKIN** 1126974
*Italian* Ryegrass
- Excellent forage quality, tetraploid
- Excellent forage yield in seeding year
- Will not set seed in seeding year
- Excellent disease resistance
- Excellent seasonal growth pattern

**BELLEVUE** 704759
Reed Canarygrass
- Excellent stress tolerance
- Low alkaloid content improved forage quality
- Very good forage yield
- Excellent winter hardiness
- Very good seasonal growth pattern

**NEW! WINNETOU**
Timothy
- Late maturity
- Very good forage quality
- Very good grazing tolerance
- Very good spring vigour
- Very good winterhardiness

**MATHILDE**
Perennial Ryegrass
- Excellent forage quality, tetraploid
- Improved winter hardiness
- Improved forage yield
- Very dense growth habit
- Late maturity

**NEW! LOFA**
Festulolium (Ryegrass Type)
- Meadow Fescue x Annual (Italian) Ryegrass
- Excellent forage yield in seeding year
- Excellent forage quality
- Very good disease resistance
- Excellent seasonal growth pattern

**GLACIER**
Timothy
- Very good forage quality
- Early maturity
- Very good forage yield
- Very good spring vigour
- Very good winterhardiness

For additional grass species visit ufa.com
DLF PICKSEED LEGUMES CLOVER & TREFOIL

**RENEGADE**
Red Clover
- Multi-cut, diploid variety
- Excellent forage yield
- Improved disease & insect resistance
- Excellent winter hardiness
- Early flowering

**BELLE**
Red Clover
- Multi-cut, diploid variety
- Very good forage yield
- Improved disease & insect resistance
- Excellent winter hardiness
- Medium flowering

**ALTASWEDE**
Red Clover
- Multi-cut variety
- Very good forage quality
- Excellent companion for alfalfa
- Rapid establishment
- Late flowering

**NEW! WINNER**
Berseem Clover
- Certified
- Annual, multi-cut
- Very good forage quality
- Excellent companion for alfalfa
- Rapid establishment

**CRESCE NDO**
Ladino White Clover
- Vigorous, large leaved variety
- Good forage yield
- Grazing tolerant
- Good winter hardiness
- Erect growth

**BULL**
Birdsfoot Trefoil
- Good stress & grazing tolerance
- Good forage yield
- Non-bloating legume
- Excellent winter hardiness
- Excellent forage quality
LEGUMES  ALFALFA

**INSTINCT** 1126948
- Excellent disease resistance
- Highly resistant to Aphanomyces Race 1 & 2
- Excellent forage yield
- Improved forage quality
- Very high multifoliate leaf expression

**ABLE** 946230
- Partially creeping rooted
- Very good winter hardiness
- Adaptable to many different soil conditions
- Good forage yield
- Good forage quality

**AC® GRAZELAND BR** 840077
- Bloat reduced variety
- Very good forage quality
- Good disease resistance
- Good regrowth
- Good forage yield

**VISION** 1104555
- Excellent forage yield
- Excellent disease resistance
- Improved forage quality
- Very high multifoliate leaf expression
- Very fast regrowth

**PICKSEED 3006** 171600
- Creeping rooted
- Multifoliate leaf expression
- Very good disease resistance
- Good forage yield
- Good forage quality

**PICKSEED 2065MF** 534194
- Very fast regrowth
- Very good forage yield
- Excellent disease resistance
- Improved forage quality
- Very high multifoliate leaf expression

**WESTSTAR BLEND** 539545
- High quality blend of alfalfa varieties
- Good forage quality
- Multifoliate expression
- Adaptable to many different soil conditions
- Good forage yield
Protecting your forage investment while preventing losses in quality and quantity starts with excellent storage solutions. Quality loss varies and depends on the quality of your harvested forages, precipitation and your storage site location. Loss occurs when baled forages are exposed to weather, which is why the consideration and planning of stored forages are critical.

Forages are best preserved when protected from the elements. The external layer of each bale is vulnerable to substantial losses of yield and quality due to weather. A storage shed is a superior option to help with loss due to exposure - and reduces it by two-thirds. Bale stack covers, polyethylene sheeting or bale wrap also provide protection from outdoor storage loss.
**TIPS FOR STORAGE MANAGEMENT**

1. Consider indoor storage options as an investment to protect losses over the long-term.

2. All storage sites should be well drained regardless of the type of storage.

3. Any larger round bales without cover should be stored end-to-end in single rows in a North to South orientation with space between the bales to assist with air circulation and dryness.

4. Uncovered pyramid stacking exposes lower levels of bales to increased weathering, as rain shed off the top bale row allows filtration into the lower levels.

5. Two bale mushroom stacks place the bottom bale on end and the second bale horizontally on top. This will minimize the amount of ground contact, however, moisture shed off the top bale can accumulate in the lower bale, significantly increasing the risk of spoilage.

6. Protection from loss to wildlife should also be considered. Electric fencing provides an effective deterrent for elk, deer and other wildlife in stack yards.

Source: BeefResearch.ca
Corn grown in western Canada has the potential for high silage yield with high digestible energy content.

At UFA, we carry a wide range of short-season corn hybrids with varieties developed to meet the specific needs of cattle producers in Alberta and their unique growing environments.
**PROPERTIES OF CORN TRAITS**

**PROTECTION FROM PESTS**

Significant trait progress in corn in recent years has helped to make the crop a viable feed option for cattle producers. Advancements in short growing season varieties and corn traits that provide broad-spectrum above and below ground pest control make corn a growing feed option for cattle in Western Canada.

Select the right corn hybrid to meet the needs of your operation to the right:

Source: DLF Pickseed Science

<table>
<thead>
<tr>
<th>Above Ground Pests</th>
<th>SmartStax</th>
<th>VT Double PRO</th>
<th>Roundup Ready®</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Corn Borer</td>
<td>⚫⚫⚫</td>
<td>⚫⚫</td>
<td></td>
</tr>
<tr>
<td>Southwestern Corn Borer</td>
<td>⚫⚫⚫</td>
<td>⚫⚫</td>
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</tr>
<tr>
<td>Corn Earworm</td>
<td>⚫⚫</td>
<td>⚫⚫</td>
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</tr>
<tr>
<td>Fall Anyworm</td>
<td>⚫⚫⚫</td>
<td>⚫⚫</td>
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</tr>
<tr>
<td>Western Bean Cutworm</td>
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<td></td>
</tr>
<tr>
<td>Black Cutworm</td>
<td>⚫</td>
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<table>
<thead>
<tr>
<th>Below Ground Pests</th>
<th>SmartStax</th>
<th>VT Double PRO</th>
<th>Roundup Ready®</th>
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<tbody>
<tr>
<td>Northern Corn Rootworm</td>
<td>⚫⚫</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Corn Rootworm</td>
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<tr>
<td>Roundup Ready*</td>
<td>⚫</td>
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<td>Liberty Link®</td>
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<table>
<thead>
<tr>
<th>Refuge</th>
<th>Minimum Refuge Requirement</th>
<th>5% RIB*</th>
<th>5% RIB*</th>
<th>0%</th>
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</table>

- Single Mode of Action
- Dual Mode of Action
- Triple Mode of Action

"SmartStax® RIB Complete® and VT Double PRO® RIB Complete® designation contain a blend of 95 traited corn seed and 5 percent refuge (non B.t.) corn seed that farmers can plant across their entire field. Genuity VT Triple PRO® RIB Complete® designation contain a blend of 90 traited corn seed and 10 percent refuge (non B.t.) corn seed that farmers can plant across their entire field. Farmers who plant RIB Complete® products will no longer need to plant a separate, structured refuge for insect pests on these given fields."
CORN A GROWING POTENTIAL FOR CATTLE PRODUCERS IN ALBERTA.

Corn grown in Western Canada has the potential for high silage yield with high digestible energy content. For Albertan cattle producers, the crop produces more tonnage of feed per acre and higher nutritional feed value for cattle than a traditional hay crop.

THE BENEFITS OF SILAGE CORN FOR CATTLE
• High nutritional/energy value
• Quality nutrition (year-round)
• Palatability
• High yield potential
• Ease of ensiling

TIPS FOR SUCCESS
Select the Right Hybrid - The first step is to select a proven hybrid with a high yield potential that is regionally appropriate for your operation, along with high digestibility. It’s also important to select a hybrid with a corn heat unit rating that matches the long-term rating of your growing location to maximize starch content before frost occurs.

Weed Control - Most corn is Roundup Ready but canola volunteers and some harder to control weeds may require a tank mix. Corn doesn’t like early competition, so keeping on top of weeds early is critical.

Planning - Accurate harvest timing (silage corn should be harvested when the whole plant contains 32 to 38% dry matter content), proper packing, storage and feeding of a silage product are all critical to a profitable silage feeding system. Kernel processing should be conducted at the time of harvest to maximize starch availability in the rumen.

Feeding and Nutritional Analysis - Ensure your cattle have a high-quality, uniform and balanced diet. Corn is high in energy but low in protein and other essential nutrients. To ensure a high-quality diet for your cattle, submit a whole plant sample to a lab for quality analysis. Additional sources of roughage and mineral supplements should also be considered.

Whether you are growing corn for grain, silage or grazing, at UFA, we can help select the right corn hybrid for you based on heat unit requirements and agronomic characteristics. Consult with your local, experienced UFA representative to find the right corn traits and hybrids that work best in your area.

Distributed by CANTERRA SEEDS, PRIDE Seeds celebrates more than 70 years in Canadian agriculture, with a history of high-quality production and state-of-the-art technology.

<table>
<thead>
<tr>
<th>Trait</th>
<th>AS1017 EDF</th>
<th>NEW AS 1027 EDF</th>
<th>AS 1037 EDF</th>
<th>AS 1047 EDF</th>
<th>A4705HMRR</th>
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<tr>
<td>CHU</td>
<td>2100</td>
<td>2325</td>
<td>2400</td>
<td>2400</td>
<td>2250</td>
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<tr>
<td>RELATIVE MATURITY</td>
<td>71-75</td>
<td>78-81</td>
<td>78-81</td>
<td>78-82</td>
<td>74-77</td>
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<tr>
<td>TRAIT</td>
<td>RR</td>
<td>RR</td>
<td>RR</td>
<td>RR</td>
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</tr>
<tr>
<td>SEEDLING VIGOR</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>STALK STRENGTH</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
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<td>Very Tall</td>
<td>Tall</td>
<td>Very Tall</td>
<td>Tall</td>
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<tr>
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<td>Silage</td>
<td>Silage, Grazing</td>
<td>Silage</td>
<td>Silage, Grazing</td>
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</table>
DLF Pickseed has a trusted and proven reputation for quality, agronomic advice and a commitment to research and technology.

The DEKALB® corn lineup provides strong, consistent performance, with excellent standability and stalk strength for Alberta, as well as excellent test weight and dry down.

<table>
<thead>
<tr>
<th></th>
<th>PS 2262 RR</th>
<th>PS 2210 VT2P Rib</th>
<th>PS 2320 RR</th>
<th>PS 2420 RR</th>
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<td>78-81</td>
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<td>74-77</td>
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<tr>
<td>TRAIT RR</td>
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<td>RR</td>
</tr>
<tr>
<td>SEEDLING VIGOR</td>
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<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>STALK STRENGTH</td>
<td>Excellent</td>
<td>Very Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>PLANT HEIGHT</td>
<td>Very Tall</td>
<td>Tall</td>
<td>Tall</td>
<td>Tall</td>
</tr>
<tr>
<td>BEST END USE</td>
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<td>Silage</td>
<td>Silage, Grazing</td>
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<table>
<thead>
<tr>
<th></th>
<th>DKC23-17Rib</th>
<th>DKC23-21</th>
<th>DKC26-40RIB</th>
<th>DKC30-07RIB</th>
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<td>RELATIVE MATURITY</td>
<td>75</td>
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<td>78</td>
<td>80</td>
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<tr>
<td>TRAIT RR</td>
<td>RR</td>
<td>RR</td>
<td>RR</td>
<td>RR</td>
</tr>
<tr>
<td>SEEDLING VIGOR</td>
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<td>Very Good</td>
<td>Very Good</td>
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<tr>
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<td>Tall</td>
<td>Tall</td>
</tr>
<tr>
<td>BEST END USE</td>
<td>Grain, Silage</td>
<td>Grain</td>
<td>Grain, Silage</td>
<td>Grain, Silage</td>
</tr>
</tbody>
</table>
At UFA, we have the range and pasture products that will enhance your pasture and forage crops and handle weeds. Whether you are establishing new or refurbishing existing pasture and hay land, your team of local, knowledgeable pasture and forage specialists will help you choose the right range and pasture products for your farm.
Corteva Agriscience™ Early Booking Rebate Program

UFA offers Corteva Agriscience’s complete line-up of products for the most effective weed and brush control for your rangeland and pasture. Make sure to book your 2020 range and pasture herbicides early to receive the best deals and savings.
## CORTEVA AGRISCIENCE™ RANGE & PASTURE PRODUCTS

### Reclaim™

**HERBICIDE**

<table>
<thead>
<tr>
<th>SEGMENT</th>
<th>Broadleaf weed and brush control</th>
<th>Broadleaf weed control</th>
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</thead>
<tbody>
<tr>
<td>PACKAGING</td>
<td>Case only</td>
<td>2 x 9.71 L Jugs/Case</td>
</tr>
<tr>
<td></td>
<td>1.84 kg Reclaim II A + 2 x 6.8 L Reclaim II B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A non-ionic surfactant such as Gateway Adjuvant is required – sold separately</td>
<td></td>
</tr>
<tr>
<td>BROADCAST RATE</td>
<td>93 g/ac Reclaim A + 0.8 L/ac Reclaim B + 0.2% v/v non-ionic surfactant (200mL/ac provided using 20 gal/ac water volume)</td>
<td>1 L/ac</td>
</tr>
<tr>
<td>AC/JUG OR CASE at broadcast rate</td>
<td>20 ac/case</td>
<td>10 ac/jug</td>
</tr>
<tr>
<td>BACKPACK/SPOT application rate mixing in 10 L water</td>
<td>2.3 g (1 tsp) Reclaim II A + 17 mL Reclaim II B + 20 mL surfactant</td>
<td>24 mL</td>
</tr>
<tr>
<td>APPLICATION RECOMMENDATION</td>
<td>Thoroughly and uniformly wet the foliage but not to the point of run-off.</td>
<td>Thoroughly and uniformly wet the foliage but not to the point of run-off.</td>
</tr>
</tbody>
</table>

### Restore™

**HERBICIDE**

The cost effective choice for invasive weed control and increased grass production.

---

Always read and follow label instructions.
<table>
<thead>
<tr>
<th><strong>Grazon™ XC</strong></th>
<th><strong>Tordon™ 22K</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Broad-spectrum control of undesirable pasture species. For tree recommendations, please contact your local UFA Customer Account Manager (CAM).</td>
<td>Longest-lasting control of deep-rooted leafy spurge and toadflax.</td>
</tr>
<tr>
<td>Broadleaf weed and tree control</td>
<td>Deep-rooted, hard-to-control perennial broadleaf weed control</td>
</tr>
<tr>
<td>2 x 10 L Jugs/Case</td>
<td>2 x 10 L Jugs/Case</td>
</tr>
<tr>
<td>Broadleaf weeds: 1.9 L/ac  Trees: 2.5 L/ac  Note: Height restrictions apply. Surfactant required for tree control</td>
<td>1.84 L/ac</td>
</tr>
<tr>
<td>Weed rate: 5.2 ac/jug  Tree rate: 4 ac/jug</td>
<td>5.6 ac/jug</td>
</tr>
<tr>
<td>Weed rate: 67 mL  Tree rate: XX</td>
<td>50 mL (0.5% solution)  For control of leafy spurge, field bindweed and toadflax only, a spot treatment rate of 90 mL per 100m may be used provided no more than 50% of a hectare is treated</td>
</tr>
<tr>
<td>Apply to foliage until wet, up to the point of run-off.</td>
<td>Apply to foliage until wet, up to the point of run-off.</td>
</tr>
</tbody>
</table>
WEED IDENTIFICATION

WEED
Dandelion

- Reclaim II: 20 ac/case
- Grazon XC: 1.9 L/ac
- Apply anytime from early spring when rosettes are first emerging up to the end of flowering – typically late May to mid-July.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

INVASIVE WEED
Hawkweed

- Reclaim II: 20 ac/case
- Restore II: 1 L/ac
- Apply when actively growing, prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

INVASIVE WEED
Hound’s Tongue

- Reclaim II: Control has been observed when applied at 20 ac/case for a wide variety of susceptible species.
- Restore II: Control has been observed when applied at 1 L/ac for a wide variety of susceptible species.
- Apply when actively growing, prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

DEEP ROOTED PERENNIAL WEED
Leafy Spurge

- Tordon 22K: Broadcast - 1.8L/ac; Spot spray 3.6L/ac where no more than 50% of an acre is treated.
- Grazon XC: 1.9L/ac
- Apply when actively growing when in full true flower, prior to seed set.
- Grazon XC will provide seasonal control of leafy spurge. Subsequent treatments may be required.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

INVASIVE WEED
Low Everlasting Sage (Pussy-toes)

- Reclaim II: Control has been observed when applied at 20 ac/case for a wide variety of susceptible species.
- Restore II: Control has been observed when applied at 20 ac/case for a wide variety of susceptible species.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.
- Reclaim II: 20 ac/case
- Restore II: 1 L/ac
- Grazon XC: Control has been observed when applied at 1.9L/ac for a wide variety of susceptible species.

- Apply when actively growing, prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

- Reclaim II: 20 ac/case
- Grazon XC: Control has been observed when applied at 1.9L/ac for a wide variety of susceptible species.

- Apply when actively growing, prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

- Reclaim II: 20 ac/case
- Restore II: 1 L/ac
- Grazon XC: Control has been observed when applied at 1.9L/ac for a wide variety of susceptible species.

- Apply when actively growing, prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

- Apply to actively growing plants after full leaf expansion. The best timing is early/mid-June.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.
### WEED IDENTIFICATION

| SHRUB | Silverberry (Wolf Willow) |
| WEED | Spotted Knapweed |
| INVASIVE WEED | Tall Buttercup |
| SHRUB | Western Snowberry (Buckbrush) |
| INVASIVE WEED | White Cockle |

#### Silverberry (Wolf Willow)
- **Reclaim II**: 20 ac/case
- **Restore II**: 1 L/ac
- **Gazon XC**: Control has been observed when applied at 1.9 L/ac for a wide variety of susceptible species.
- Apply anytime from early spring when rosettes are first emerging up to the later stages of flowering. Typically late May to mid-July.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

#### Spotted Knapweed
- **Reclaim II**: 20 ac/case
- **Restore II**: 1 L/ac
- **Gazon XC**: Control has been observed when applied at 1.9 L/ac for a wide variety of susceptible species.
- Apply to actively growing plants after full leaf expansion but prior to the development of waxy cuticle on the leaf of shrub - typically early June to mid-July.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

#### Tall Buttercup
- **Reclaim II**: 20 ac/case
- **Restore II**: 1 L/ac
- **Gazon XC**: Control has been observed when applied at 1.9 L/ac for a wide variety of susceptible species.
- Apply anytime from early spring when rosettes are first emerging up to the later stages of flowering. Typically late May to mid-July.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

#### Western Snowberry (Buckbrush)
- **Reclaim II**: 20 ac/case
- **Restore II**: 1 L/ac
- **Gazon XC**: Control has been observed when applied at 1.9 L/ac for a wide variety of susceptible species.
- Apply to actively growing plants after full leaf expansion but prior to the development of waxy cuticle on the leaf of shrub - typically June. Late springs delay leaf out and application should be delayed. Control reduced if applied past mid-July, once plants have hardened off.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

#### White Cockle
- **Reclaim II**: Control has been observed when applied at 20 ac/case for a wide variety of susceptible species.
- Apply when actively growing and prior to flowering.
- Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.
• Reclaim II: 20 ac/case
• Restore II: Control has been observed when applied at 1 L/ac for a wide variety of susceptible species.
• Apply when actively growing, prior to flowering.
• Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

• Reclaim II: 20 ac/case
• Apply to actively growing plants, after full leaf expansion. Typically June to early July.
• Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

• Reclaim II: 20 ac/case
• Apply when actively growing.
• Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Reclaim II for ground application and 1% v/v for aerial application.

• Grazon XC: 2.5 L/ac
• Ensure active growth with no insect or disease pressures. Apply at full leaf until August, before trees are 12” tall
• Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.

• Tordon 22K: Broadcast 1.8L/ac Spot spray 3.6L/ac where no more than 50% of an acre is treated.
• Grazon XC: 1.9 L/ac
• Apply to actively growing plants, after full leaf expansion at the flowering stage. Grazon XC will provide seasonal control of yellow toadflax. Subsequent treatments may be required.
• Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.
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