

## FORAGE MIXTURES

PICKSEED's forage mixtures are designed to improve yields and maximize profits using proprietary varieties that are tested to meet Canadian conditions and your specific requirements. Custom mixes are always available to meet specific and unique needs. A minimal charge is applied to custom mixes of five bags or less.

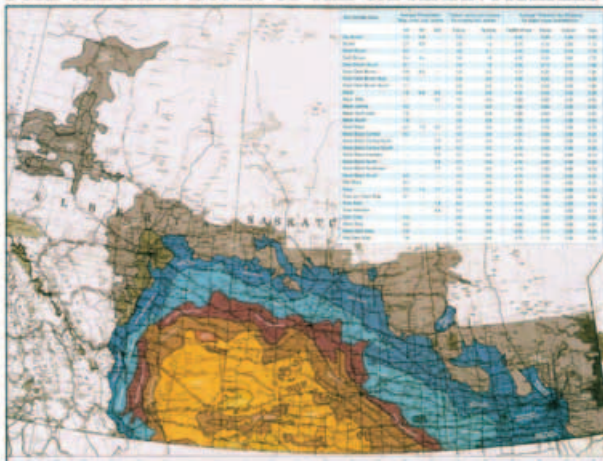
Mixture Name	Composition	Best Soil Type	Seeding Rate Per Acre	Purpose	Remarks
Cattlemans	40% Fleet Meadow Bromegrass 15% Kirk Crested Wheatgrass 15% Carnival Tall Fescue 15% Swift Russian Wild Ryegrass 15% AC Grazeland Br Alfalfa	Brown Dark Brown Black Grey Wooded Irrigated	6.5 kg/14 lb	Pasture	Ideal grassland pasture. Quick regrowth, good drought tolerance and season long growth. Built for Beef!
Stockmans	35% Fleet Meadow Bromegrass 20% OKAY Orchardgrass 20% Oxley II Cicer Milkvetch 10% Carnival Tall Fescue 10% HiPro Perennial Ryegrass 5% Richmond Timothy	Brown Dark Brown Black Grey Wooded Irrigated	6.5 kg/14 lb	Pasture	Widely adaptable. A well-balanced mixture. Non-bloating Cicer Milkvetch utilized to increase quality.
PasturePro	30% Fleet Meadow Bromegrass 25% AC Grazeland Br Alfalfa 15% HiPro Orchardgrass 15% Carnival Tall Fescue 10% HiPro Perennial Ryegrass 5% Richmond Timothy	Dark Brown Black Grey Wooded Irrigated	5.5 kg/13 lb	Pasture	Widely adaptable. Highest yielding pasture blend. Season long performance. Designed for maximum growth.
RangePro	50% Fleet Meadow Bromegrass 15% Russian Wildrye 10% Fariway Crested Wheatgrass 10% OKAY Orchardgrass 10% Carnival Tall Fescue 5% Richmond Timothy	Brown Dark Brown Black Grey Wooded Irrigated	6.5 kg/14 lb	Pasture	Long term pasture with no legume. Adapted to the drier areas of the Prairies.
SaltPro	10% WestStar Alfalfa Blend 20% Tall Wheatgrass 10% Dahurian Wildrye 10% Norgold Sweet Clover 20% Russian Wildrye 20% Carlton Smooth Bromegrass 10% Carnival Tall Fescue	All saline prone soils	6 kg/13 lb	Pasture	Formulated for salinity prone pastures.
Drylands	40% Fleet Meadow Bromegrass 20% Kirk Crested Wheatgrass 20% Pubescent Wheatgrass 10% Dahurian Wild Ryegrass 10% PICKSEED 3006 Alfalfa	Brown Dark Brown Black (Dry)	6.5 kg/14 lb	Pasture	Use for long term production. Excellent persistence. Season long growth.
Lowlands	30% Meadow Foxtail* 10% Boreal Creeping Red Fescue 15% Richmond Timothy 10% Dawn Alsike Clover 10% Bellevue Reed Canarygrass 25% Carnival Tall Fescue	All poorly drained soils	6 kg/13 lb	Pasture	A persistent mixture for soils that are moist for long periods of time. Can survive up to six weeks of spring flooding. Caution is recommended if feeding Alsike clover to horses.

Ingredients may change without notice.  
\* GroKoted optional

## FORAGE MIXTURES

Mixture Name	Composition	Best Soil Type	Seeding Rate Per Acre	Purpose	Remarks
HayGraze	60% AC Grazeland Br Alfalfa 30% AC Success Hybrid Bromegrass 10% OKAY Orchardgrass	Dark Brown Black Grey Wooded Irrigated	6 kg/13 lb	Dual	Rapid regrowth and great quality. Use as multi-cut hay and still have extra to graze in the fall.
HayGraze Dry	50% AC Grazeland Br Alfalfa 10% Kirk Crested Wheatgrass 40% Fleet Meadow Bromegrass	Brown Dark Brown Black (Dry)	5 kg/11 lb	Dual	Obtain superior yield and quality in drier conditions without sacrificing bloat safety.
Horsemans	10% WestStar Alfalfa Blend 25% Fleet Meadow Bromegrass 15% Richmond Timothy 20% HiPro Orchardgrass 20% Forage type Kentucky Bluegrass 10% Perennial Ryegrass	Dark Brown Black Grey Wooded Irrigated	7 kg/15 lb	Dual	Well balanced for proper nutrition. Stands up well under heavy grazing. Excellent Spring, Summer and Fall growth. Adaptable and suitable for all acreage ruminants.
DairyPro	90% PICKSEED 2065MF Alfalfa 10% Richmond Timothy	Dark Brown Black Grey Wooded Irrigated	5 kg/11 lb	Hay	Highest quality hay. Custom designed for dairy production needs.
HayPro T5	80% PICKSEED 2065MF Alfalfa 15% OKAY Orchardgrass 5% Richmond Timothy	Dark Brown Black Grey Wooded Irrigated	5.5 kg/12 lb	Hay	Rapid establishment with great persistence. Very adaptable.
HayPro T10	60% WestStar Alfalfa Blend 30% AC Success Hybrid Bromegrass 10% Richmond Timothy	Dark Brown Black Grey Wooded Irrigated	6 kg/13 lb	Hay	Highest yielding for regular rotations. Extremely adaptable with multiple disease resistance.
HayPro Dry	30% PICKSEED 3006 Alfalfa 40% Carlton Smooth Bromegrass 30% Kirk Crested Wheatgrass	Black (Dry) Brown Dark Brown	7 kg/15 lb	Hay	Well suited for dry sandy soils. Great for single-cut hay systems that require fall grazing.

### SOIL CLIMATIC ZONES OF THE CANADIAN PRAIRIES\*



- GREY SOIL
- WET BLACK
- MOIST BLACK
- BLACK
- MOIST DARK BROWN
- DARK BROWN
- MOIST BROWN
- BROWN

\*Based on the Soil Climatic Zones of the Canadian Prairies, as defined by the Canadian Council of Ministers of the Environment, 1998. The map is a simplified representation of the actual soil climatic zones. For more information, please refer to the Soil Climatic Zones of the Canadian Prairies, as defined by the Canadian Council of Ministers of the Environment, 1998.

## LEGUMES

### Forage Adaptation & Comparison Guide

Forage Species	Use	Longevity	Winter-hardiness	Drought Tolerance	Flooding Tolerance	Salinity Tolerance	Alkalinity Tolerance	Acidity Tolerance	# Seeds per kg	# Seeds per lb
Alfalfa	Hay & Pasture	Long	Good	Good	Low	Low to Moderate	Moderate to High	Low	440,000	200,000
Alsike Clover	Hay & Pasture	Short	Fair	Poor	Moderate	Low	Low to Moderate	Moderate	1,540,000	700,000
Birdsfoot Trefoil	Pasture	Long	Good	Moderate	High	Low to Moderate	Moderate	Moderate to High	825,000	375,000
Cicer Milkvetch	Pasture	Long	Good	Moderate to High	Low	Moderate	Moderate	Moderate	286,000	130,000
Red Clover	Hay & Pasture	Short	Poor	Low	High	Low	Moderate	Moderate	605,000	275,000
Sainfoin	Pasture	Long	Fair	High	Low	Low	High	Low	66,000	30,000
Sweetclover	Hay & Silage	2 Years	Fair	Moderate to High	Low	Moderate	Moderate	Low	572,000	260,000

## NATIVE GRASSES

### Forage Adaptation & Comparison Guide

Forage Species	Use	Longevity	Winter-hardiness	Drought Tolerance	Flooding Tolerance	Salinity Tolerance	Alkalinity Tolerance	Acidity Tolerance	# Seeds per kg	# Seeds per lb
Green Needlegrass	Pasture	Long	Good	High	Moderate	Moderate to Low	Moderate	Moderate	375,000	170,000
Little Bluestem	Pasture	Long	Good	High	Low	Moderate	Moderate	Moderate	529,000	240,000
Northern Wheatgrass	Pasture	Long	Good	Very High	Moderate	Moderate	Moderate	Low	341,000	155,000
Reed Canarygrass	Hay & Pasture	Long	Good	Moderate	Very High	Low	Moderate	Moderate	1,175,000	534,000
Slender Wheatgrass	Hay & Pasture	Short	Good	Moderate	Low	High	High	Low	352,000	160,000
Streambank Wheatgrass	Hay & Pasture	Long	Good	Very High	Moderate +	Low to Moderate	Moderate	Low	344,000	156,000
Switchgrass	Pasture	Medium	Fair	Low	Moderate	Moderate	Low	Low	716,000	325,000
Western Wheatgrass	Hay & Pasture	Long	Excellent	High	Moderate to High	High	High	Moderate	254,000	115,000

These grasses are indigenous to North America. Available varieties have been improved through plant breeding programs.  
(Source: Manitoba Agriculture & Food)

## SPECIES ADAPTATION AND COMPARISON

Forage Species	Preferred Climate and Growing Conditions	Growing Period	Positive Features	Negative Features	Plant Type
Alfalfa	Widely adapted to most prairie soils but will not tolerate areas that have periodic flooding.	Spring to Fall	Easy to establish. High yields, rapid regrowth. Highest nutrition of all forages.	Bloat hazard. Needs good drainage.	Tap, Branch, Rhizomatous, Creeping Rooted
Alsike Clover	Prefers low-lying moist areas.	Spring	Easy establishment. Tolerant to poor drainage and acid soils.	Bloat hazard. Short life span and low yield.	Branched
Birdsfoot Trefoil	Prefers moist areas.	Spring to Fall	Non bloating. Reseeds itself. Feed value similar to alfalfa.	Poor seedling vigour. Poor competitor and lower yielding.	Tap Rooted with Branches
Cicer Milkvetch	Widely adapted but exhibits its creeping habit best on more coarse textured soils.	Late Spring to Fall	Non bloating. Hardier than alfalfa. Very aggressive once established.	Slow to establish. Hard seeds. Slow regrowth after grazing.	Creeping Rooted
Red Clover	Best suited to humid areas with moderate temperatures.	Spring	Easy establishment. Tolerates wetter and more acid soils than alfalfa.	Bloat hazard. Short life span.	Tap Rooted with Side Branches
Sainfoin	Best on brown and dark brown soil areas. In very dry areas it yields poorly. Does well on thin gravelly soils.	Spring to Summer	Non bloating. More drought and cold tolerant than alfalfa.	Poor regrowth. Slow to establish.	Tap Rooted
Sweetclover	Especially productive on fertile soils.	Spring of Second Year	Widely adapted. Good for soil and drainage improvement.	Low palatability unless harvested early. Self seeds.	Tap Rooted

Forage Species	Preferred Climate and Growing Conditions	Growing Period	Positive Features	Negative Features	Plant Type
Green Needlegrass	Performs best on medium to heavy textured soils. Prefers moist sites with good drainage.	Late Spring to Mid Summer	Palatable and nutritious. Tolerant to drought and grasshopper damage.	Seed has high level of dormancy. Easily overgrazed.	Bunch Grass
Little Bluestem	Sandy, gravelly soils with shallow water table or where snow accumulates. Common on prairie upland.	Late Spring to Fall	Highly nutritious and palatable when grazed at early stages.	Light, fluffy seed. Becomes unpalatable in the fall.	Bunch Grass
Northern Wheatgrass	Prefers medium to coarse textured soil.	Mid Spring to Mid Summer	Suitable for erosion control. Easy to establish. Produces good ground cover.	Tends to get sod bound. Becomes wiry and unpalatable in the fall.	Sod Forming
Reed Canarygrass	Moist cool climate. Poorly drained areas subject to temporary flooding.	Spring to Summer	Grows well in wet areas. Withstands flooding for up to two months. Grows tall, good yield.	Slow to establish. Nutrition and palatability low when mature.	Sod Forming
Slender Wheatgrass	Adapted to wide range of soils but prefers sandy loams.	Mid Spring to Mid Summer	High salinity tolerance. Cures well on stem. Good seedling vigour and fast establishment.	Less competitive and persistent than other wheatgrasses. Not tolerant to close, heavy grazing.	Bunch Grass
Streambank Wheatgrass	Widely adapted. Tolerates periodic flooding but requires well drained soils.	Mid Spring to Mid Summer	Good for soil and water conservation. Can be used for lawns, playgrounds and parking lots.	Low in production. Unpalatable when mature.	Sod Forming
Switchgrass	It has potential for good summer pasture when enough moisture. Grows best on loam and sandy loams.	Late Spring to Fall	Warm season grass. Can be used for summer pasture when cool season grasses go dormant.	Slow to establish. Should not be cut or grazed the first year. Unpalatable after maturity.	Bunch Grass
Western Wheatgrass	Widely adapted. Prefers heavy somewhat alkaline soil.	Early Spring to Fall	Salt tolerant and long-lived. Nutritious and productive under moderate grazing. Suitable for erosion control.	Slow to establish. Sensitive to overgrazing.	Sod Forming

**TAME GRASSES**  
Forage Adaptation & Comparison Guide

Forage Species	Use	Longevity	Winter-hardiness	Drought Tolerance	Flooding Tolerance	Salinity Tolerance	Alkalinity Tolerance	Acidity Tolerance	# Seeds per kg	# Seeds per lb
Annual (Italian) Ryegrass	Hay & Pasture	Short Annual 1 Year	Poor	Low	High	Low	Moderate	Moderate	507,000	230,000
Creeping Foxtail	Pasture	Long	Good	Low	High	Moderate	Moderate	Moderate	1,657,000	753,000
Creeping Red Fescue	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Moderate	Moderate	1,353,000	615,000
Crested Wheatgrass	Pasture & Hay	Long	Excellent	Moderate to High	Low	Low to Moderate	Moderate to High	Low	485,000	220,000
Dahurian Wildrye	Pasture	Short	Good	Moderate	Low	High	Moderate	Low	175,000	80,000
Intermediate Wheatgrass	Hay & Pasture	Short to Medium	Good	Moderate	Low to High	Low to Moderate	Moderate	Low	194,000	88,000
Kentucky Bluegrass	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Low	Low	4,800,000	2,182,000
Meadow Bromegrass	Hay & Pasture	Long	Good	High	Low	Low	Moderate	Moderate	176,000	80,000
Meadow Fescue	Pasture	Short to Medium	Good	Moderate	High	Low to Moderate	Low	Moderate	506,000	230,000
Meadow Foxtail	Pasture	Long	Good	Low	High	Low	Moderate	High	1,270,000	577,000
Orchardgrass	Hay & Pasture	Short	Fair	Moderate	Low to Moderate	Low	Low	Moderate	1,439,000	654,000
Pubescent Wheatgrass	Hay & Pasture	Medium	Good	Moderate to High	Low	Low to Moderate	Moderate	Low	220,000	100,000
Russian Wildrye	Pasture	Long	Excellent	Very High	Low	Very High	High	Moderate	385,000	175,000
Smooth Bromegrass	Hay & Pasture	Long	Excellent	Moderate	Moderate	Low to Moderate	Moderate	Moderate	300,000	136,000
Tall Fescue	Pasture	Long	Good	Moderate to High	Moderate to High	High	High	Very High	500,000	227,000
Tall Wheatgrass	Pasture & Hay	Long	Excellent	Low	High	High +	Low to Moderate	Low to Moderate	174,000	79,000
Timothy	Hay & Pasture	Medium	Good	Low	High	Low	Low	High	2,710,000	1,232,000