FORAGES



ALFALFA

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Sangha Alfalfa*	Hay & Pasture			Moderate moisture, well-drained soils.	Deep tap root system and strong disease package provide enhanced Aphanomyces resistance. Able to withstand extended cold and harsh winters.
Algonquin Alfalfa*	Hay & Pasture			Moderate moisture, well-drained soils.	Deep tap root system provides excellent stand persistence and reliable yields. Strong resistance to bacterial wilt. High fall dormancy allows it to withstand harsh Prairie winters.
Tap Root Alfalfa	Hay & Pasture			Moderate moisture, well-drained soils.	Deep tap root system provides excellent drought and wind tolerance. High protein forage for livestock.
Multifoliate Alfalfa	Hay & Pasture			Moderate moisture, well-drained soils.	Higher leaf content provides a nutrient dense, high quality forage for livestock. Deep tap root system provides excellent drought tolerance.
Creeping Root Alfalfa	Hay & Pasture			Moderate moisture, well-drained soils.	Creeping root that spreads through underground rhizomes for improved stand persistence. Better drought recovery, grazing tolerance and adaptation to challenging soils.
Rancher Blend	Hay & Pasture			Wide adaptability.	Combines the yield, persistence and adaptability of multifoliate alfalfa, creeping root alfalfa and tap root alfalfa.
Premium Blend	Premium Hay Production			Moderate moisture, well-drained soils.	Premium forage quality with improved lead retention and feed value by combining multifoliate alfalfa and tap root alfalfa.

*Certified

RATING SCALE - Low, Moderate, Good, Very Good, Excellent



Tap Root vs Creeping Root Alfalfa





DID YOU KNOW?

- Alfalfa is often called the "Queen of Forages" because of its high yield, protein content and feed quality
- Alfalfa can fix over 100 pounds of nitrogen per acre annually, reducing fertilizer requirements for future crops
- Alfalfa roots can extend 10-20 feet deep, helping plants access moisture during dry periods

FORAGES

PERENNIAL CLOVER

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Single Cut Red Clover	Hay & Cover Crop	3	4	Moderate moisture, well-drained loam to silt loam soils.	Strong establishment and first cut yield. Good regrowth. High forage quality and lower bloat risk than alfalfa.
Double Cut Red Clover	Hay & Cover Crop	5	3	Moderate moisture, well-drained loam to silt loam soils.	Faster regrowth than single cut red clover, multiple cuts per season and higher seasonal yield potential.
White Clover (Ladino Type)	Pasture	5	3	Moist, fertile clay to clay loam soils.	High forage production with excellent ground cover, strong grazing performance and stand thickening through stolons.
White Clover (Dutch Type)	Pasture	4	4	Moist, fertile clay to clay loam soils.	Persistent, low growing clover that naturally thickens stands and tolerates moderate compaction.
Alsike Clover	Pasture & Soil Improvement	2	3	Moderate to wet soil, clay and clay loam soils.	Excellent wet soil tolerance. Better adaption to lower pH soils as well as moderate bloat risk compared to alfalfa. Tolerates slightly acidic soils.
Yellow Blossom Sweet Clover	Soil Improvement	2	5	Well-drained sandy loam to clay loam soils.	Deep-rooted, nitrogen-fixing species that improves soil structure and provides excellent pollinator value. Drought, saline, and alkali tolerant.
White Blossom Sweet Clover	Soil Improvement	3	4	Sandy loam to clay loam soils, tolerates moderately heavy soils.	Deep-rooted soil builder. More heat tolerant than Yellow Clover. Very drought and alkali tolerant.

RATING SCALE - Low, Moderate, Good, Very Good, Excellent



Deep-rooted Yellow Blossom Sweet Clover vs Alsike Clover



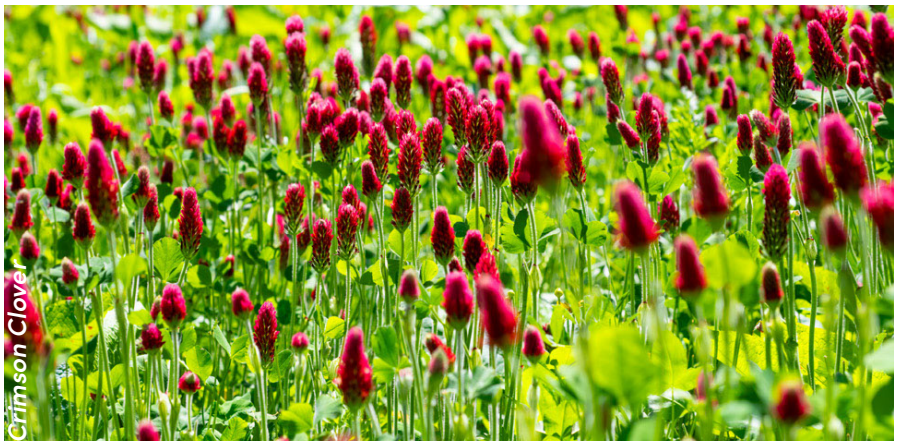


ANNUAL CLOVER

	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Berseem Clover	Hay, Pasture & Cover Crop			Moist, fertile well-drained loam soils.	Highly palatable with rapid establishment and strong multi-cut production. Good for sheep.
Crimson Clover	Pasture & Cover Crop			Moist, fertile well-drained loam to sandy loam soils.	Excellent spring grazing, high biomass production in late spring, and nitrogen fixation. Good for sheep.
Arrowleaf Clover	Pasture & Cover Crop			Well-drained loam or sandy loam soils.	Late spring production. High protein forage with strong reseed ability and better drought tolerance than other clovers.
Subterranean Clover	Pasture & Cover Crop			Fertile well-drained loam to sandy loam soils.	Low growing, dense ground cover with excellent drought tolerance.
Balansa Clover	Pasture & Cover Crop			Saturated clay loam to heavy loam soils.	High quality spring with excellent reseeding and flood tolerance.

RATING SCALE - Low, Moderate, Good, Very Good, Excellent


Berseem Clover


Crimson Clover


Balansa Clover

DID YOU KNOW?

- Clover can fix up to 200lbs of nitrogen per acre annually
- Clover flowers attract bees and other beneficial pollinators, supporting biodiversity
- Many clovers regularly test 15-25% crude protein when managed properly
- Clovers extensive root systems help improve soil structure, water infiltration and organic matter

FORAGES

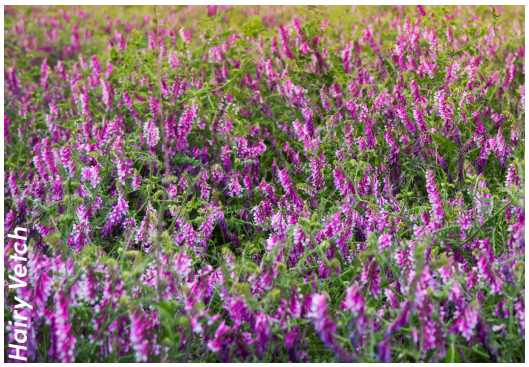
SPECIALTY LEGUME

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Cicer Milkvetch	Hay & Pasture			Moderate moisture, fertile well-drained loam to clay loam soils.	Bloat safe legume with excellent grazing tolerance and long-term persistence. Tolerates wet soils better than alfalfa.
Hairy Vetch	Pasture & Cover Crop			Moderately well-drained loam and clay soils.	High protein forage with excellent nitrogen fixation and vigorous spring growth. Performs well in cool climates.
Common Vetch	Cover Crop & Soil Improvement			Moderately fertile well-drained loam or clay loam soils.	Fast establishment, high protein, and strong biomass production. Tolerates slightly acidic soils and moderate drought. Performs well in cool climates.
Chickling Vetch	Soil Improvement			Loam and clay soils.	High biomass production. Tougher under stress than other vetches or peas. Strong dryland and alkali adaption. Performs well in cool, semi-arid climates.
Birdsfoot Trefoil	Hay & Pasture			Moderate moisture, poor to moderately fertile loam to clay loam soils.	Extremely low bloat risk with excellent grazing persistence. Performs well in cool climates. Tolerates wet soils better than alfalfa.
Leo Birdsfoot Trefoil *	Hay & Pasture			Moderate moisture, poor to moderately fertile loam to clay loam soils.	Same benefits as above with improved persistence.
Sainfoin	Hay & Pasture			Well-drained sandy loam or gravelly soils.	Extremely low bloat risk. Contains condensed tannins. Tolerates acidic soils and drought
Forage Peas	Hay & Cover Crop			Well-drained soils.	Fast growing, high-quality forage with strong biomass production. Performs well in cool, semi-arid climates.

*Certified

RATING SCALE - Low, Moderate, Good, Very Good, Excellent


Cicer Milkvetch


Hairy Vetch


Sainfoin


Birdsfoot Trefoil

DID YOU KNOW?

- Legumes form a partnership with soil bacteria that naturally fixes nitrogen from the air
- Many specialty legumes provide valuable forage while supporting pollinators, soil health and long term pasture productivity
- Birdsfoot Trefoil establishes best when seeded with grasses as they provide competition support and help maintain stand persistence

FORAGES

BROADLEAF CROP

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Sunflower	Silage & Cover Crop			Moderately fertile loam to clay soils.	High biomass production. Deep taproot helps improve soil structure and access moisture. Excellent companion in annual forage blends. Performs well in semi-arid to moderate rainfall regions.
Chicory	Pasture & Soil Improvement			Moderate moisture, well-drained loam to sandy loam soils.	Exceptional forage quality and grazing persistence. High mineral content improves feed value. Deep taproot provides excellent drought tolerance.
Buckwheat	Cover Crop & Soil Improvement			Low-fertility sandy to loam soils.	Rapid establishment and excellent weed suppression. Attracts pollinator and beneficial insects. Performs well in cool to warm summer climates.
Phacelia	Cover Crop & Soil Improvement			Moderate moisture, well-drained loam, sandy loam or clay loam soils.	Rapid establishment and excellent pollinator attraction. Improves soil health and supports beneficial insect populations.

BROMEGRASS

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Meadow Bromegrass	Hay & Pasture			Moderate moisture, fertile loam soils.	High quality forage with excellent regrowth. Best in rotational grazing systems.
Fleet Meadow Bromegrass*	Hay & Pasture			Well-drained soils.	Same as above with improved stand persistence and productivity in rotational grazing systems.
Smooth Bromegrass	Hay & Pasture			Moderate moisture, well-drained loam to clay loam soils.	Highly early yield with strong spring growth. Drought tolerant. Performs well in cool, semi-arid to subhumid climates.
Carlton Smooth Bromegrass*	Hay & Pasture			General soils.	Same as above with improved yield potential, regrowth and stand persistence.
Hybrid Bromegrass	Hay & Pasture			Well-drained loam soils.	Balanced forage yield, regrowth and stand persistence.

*Certified

RATING SCALE - Low, Moderate, Good, Very Good, Excellent



FORAGES

OTHER PERENNIAL GRASS

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Timothy	Hay & Pasture			Moist, well-drained loam soils.	Easy to establish. Highly palatable when harvested at early heading. Excellent companion in legume mixtures.
Climax Timothy*	Hay & Pasture			Moist, well-drained loam soils.	Same benefits as above with improved winter hardiness and persistence.
Orchardgrass	Hay & Pasture			Fertile well-drained loam soils.	Exceptional forage quality with strong multi-cut potential. Excellent for hay and rotational grazing. Higher in protein than smooth bromegrass at similar stages. Performs well in higher rainfall zones.
Festulolium	Hay & Pasture			Fertile well-drained loam to clay loam soils.	Hybrid grass that combines ryegrass yield and palatability with fescue persistence and winter hardiness.
Forage Tall Fescue	Hay & Pasture			Loam, clay loam or silt loam soils.	High forage yield and palatability. Adaptive to a wide range of growing conditions and drought tolerant.
Meadow Fescue	Hay & Pasture			Moderate moisture, fertile well-drained loam, clay loam or black soils.	Excellent forage quality and palatability. Strong grazing persistence especially in pasture mixes.
Sheep Fescue	Pasture & Reclamation			Dry, well-drained soils. Adapted to low fertility sandy and gravelly soils.	Commonly used for reclamation and erosion control. Low maintenance grass with excellent drought tolerance.
Hard Fescue	Pasture & Reclamation			Dry, well-drained soils. Adapted to low fertility sandy and rocky soils.	Well suited for reclamation, erosion control and marginal sites. Low growing grass with excellent drought tolerance.
Forage Perennial Ryegrass	Hay & Pasture			Moist, fertile well drained loam soils with adequate nitrogen.	Exceptional forage quality and palatability. Strong regrowth and multi-cut potential. Performs well in cool climates.
Russian Wildrye	Pasture			Dry, well-drained loam to sandy loam soils.	Very early spring growth and excellent late-season grazing. High drought and saline tolerance.
Dahurian Wildrye	Pasture & Reclamation			Dry, well-drained loam to clay soils.	Excellent forage production under dryland conditions. Frost tolerant and well adapted to cool climates.
Green Needlegrass	Pasture & Reclamation			Moderately fertile loam to clay soils.	Rapid spring growth . Long-lived native grass that naturally reseeds itself. Excellent drought tolerance. Performs well in cool climate.
Creeping Foxtail	Pasture & Reclamation			Wet, poorly-drained soils.	Excellent choice for wet prairie sites. Highly palatable with aggressive rhizome spread and strong persistence. Performs well in cool climates.
Reed Canarygrass	Pasture & Reclamation			Moist, heavy soils.	Excellent yields on slough edges and wet sites. Strong rhizome development provides long-term persistence and stand longevity.

*Certified







ANNUAL GRASS

	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Italian Ryegrass	Hay & Pasture	5	1	Moist, fertile loam to clay loam soils.	Exceptional forage quality and palatability. Rapid establishment with strong regrowth. Ideal for intensive grazing and high-quality hay production.
Siberian Millet	Hay & Pasture	4	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 60 days. Rapid establishment and dependable forage production. Drought tolerant. Performs well in warm climate.
White Proso Millet	Hay & Pasture	3	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 55 days. Quick maturity that provides reliable forage production where growing seasons are limited. Performs well in warm climates.
Red Proso Millet	Pasture & Cover Crop	3	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 55 days. Fast seasonal growth. Commonly used for erosion control. Good drought tolerance.
Crown Millet	Hay & Pasture	4	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 55 days. Rapid establishment and dependable forage production. Well suited to short growing seasons and drought-prone conditions. Performs well in warm climate.
German Millet	Hay & Pasture	4	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 50 days. High forage yield and grazing persistence. Excellent option for emergency forage and short-season hay production. Drought tolerant. Performs well in warm climate.
Japanese Millet	Hay, Pasture & Cover Crop	4	1	Moderate moisture, well-drained light to medium textured soils.	Ready to cut in as few as 45 days. Higher forage yield than most proso millets and more tolerant of wet conditions. Excellent regrowth and well suited for emergency forage production.
Sorghum Sudangrass	Pasture & Silage	5	1	Moderate moisture, well-drained light to medium textured soils.	Exceptional biomass production and vigorous regrowth. Highly drought tolerant and performs well in hot summer climates.

RATING SCALE - 1 Low, 2 Moderate, 3 Good, 4 Very Good, 5 Excellent


German Millet


Sorghum Sudangrass


Red Proso Millet

FORAGES

WHEATGRASS

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Pubescent Wheatgrass	Hay & Pasture			Moderately fertile well-drained soils.	Good early spring growth. Longer lived than intermediate wheatgrass. Performs well in semi-arid to sub-humid climates.
Crested Wheatgrass	Hay & Pasture			Lighter soils.	Excellent early spring growth. Highly drought tolerant. Performs well in semi-arid climates.
Kirk Crested Wheatgrass*	Hay & Pasture			Lighter to moderately fertile well-drained soils.	Early spring growth champion. Highly drought tolerant. Performs well in semi-arid climates.
Intermediate Wheatgrass	Hay, Pasture & Reclamation			Moderately fertile well-drained soils.	Excellent pasture grass with high yield potential for hay and grazing. Drought tolerant. Performs well in semi-arid to sub-humid climates.
Northern Wheatgrass	Pasture & Reclamation			Low-moderate moisture, dry Prairie native soils.	Good grazing persistence. Highly tolerant of cold, drought, salinity and alkaline soils.
Western Wheatgrass	Pasture & Reclamation			Low-moderate moisture, dry Prairie native soils.	Excellent grazing persistence. Strong rhizome development provides excellent soil stabilization. Saline and drought tolerant.
Tall Wheatgrass	Pasture & Reclamation			Moderate moisture, saline or heavy soils.	High biomass production. Good hay yield with adequate moisture. Drought tolerant. Performs well in semi-arid climates.
Slender Wheatgrass	Pasture & Reclamation			Moderately fertile, loam, clay loam or sandy loam soils.	More adaptable than many native grasses. Commonly used on marginal land due to its tolerance of low pH and saline soils. Performs well in cool climates.

*Certified

RATING SCALE - Low, Moderate, Good, Very Good, Excellent

TURF GRASS

PRODUCT	BEST USE	REGROWTH	WINTER HARDINESS	SOIL FIT	BENEFITS
Kentucky Bluegrass	Pasture & Turf			Moderate moisture, fertile loam to clay loam soils.	Excellent grazing persistence and soil stabilization. Dense and self-repairing. Performs well in cool northern climates.
Creeping Red Fescue	Pasture & Turf			Moist, well-drained loam to clay loam soils. Adapted to slightly acidic conditions.	Excellent performance in moist or shaded areas. Strong sod formation with good flood and salinity tolerance.
Turf Tall Fescue	Lawn & Turf			Moderate moisture, loam, clay loam or silt loam soils.	Rapid establishment. Deep-rooted grass that provides durable turf with good wear resistance. Excellent drought tolerance and adapted to a wide range of growing conditions.
Turf Perennial Ryegrass	Lawn & Turf			Moist, fertile well-drained loam soils with adequate nitrogen.	Rapid establishment and excellent recovery. Provides dense, attractive turf with high wear tolerance.
Turf Annual Ryegrass	Lawn & Turf			Moist, fertile loam to clay loam soils.	Very rapid establishment and ground cover. Commonly used for overseeding and temporary turf applications.
Parkside Lawn Mix	Lawn & Turf			Adapted to a wide range of well-drained soils.	Rapid establishment with excellent durability. Produces a dense, attractive lawn with good long-term persistence.

RATING SCALE - Low, Moderate, Good, Very Good, Excellent

FORAGE BLENDS

At NorthStar Genetics we understand that every field, operation, and forage goal is different. That is why we have carefully designed our house blends to deliver the right balance of quality, persistence, and adaptability for a wide range of growing conditions across Western Canada.

Whether you are looking for improved hay production, durable pasture performance, saline tolerance, or cover crop solutions, our blends are built using proven forage varieties selected to work together in the field.

To better serve our customers, NorthStar Genetics has developed a custom blend calculator that helps create tailored forage and turf solutions based on your specific needs.

Our team will work with you to develop the right blend for your acres, management style and forage objectives. Feel free to contact anyone from our team at any time. We'd love to learn more about you and your business.



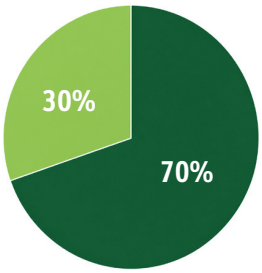
HOUSE BLENDS

Pre-formulated mixes tailored to real field conditions.

Economy Hayblend

Cost effective & reliable yield

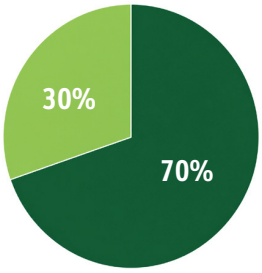
- 70% Tap Root Alfalfa
- 30% Smooth Bromegrass



Deluxe Hayblend

Maximum yield & quality

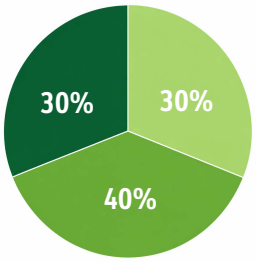
- 70% Multifoliate Alfalfa
- 30% Meadow Bromegrass



Dairy Hayblend

High protein & premium quality

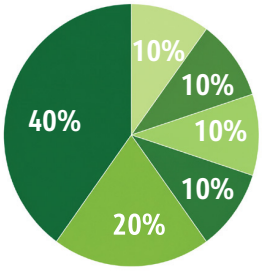
- 30% Sangha Alfalfa
- 30% Multifoliate Alfalfa
- 40% Meadow Bromegrass



Pasture Blend

Balanced grazing mix

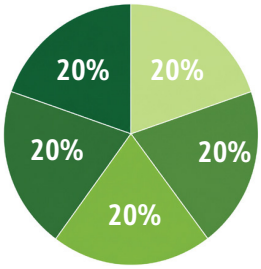
- 40% Meadow Bromegrass
- 20% Crested Wheatgrass
- 10 % Creeping Root Alfalfa
- 10% Tall Fescue
- 10% Orchardgrass
- 10% Timothy



Horse Blend

Safe and consistent

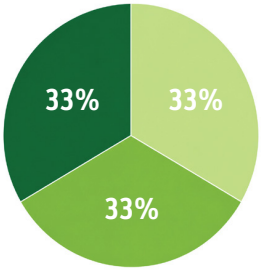
- 20% Perennial Ryegrass
- 20% Orchardgrass
- 20 % Kentucky Bluegrass
- 20% Timothy
- 20 % Creeping Red Fescue



Rancher Blend

Balanced yield and persistence

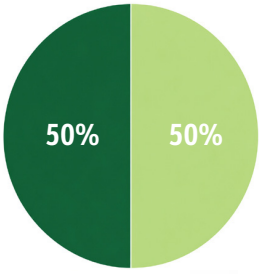
- 33% Multifoliate Alfalfa
- 33% Creeping Root Alfalfa
- 33% Tap Root Alfalfa



Premium Multiblend

High protein & leafiness

- 50% Multifoliate Alfalfa
- 50% Tap Root Alfalfa



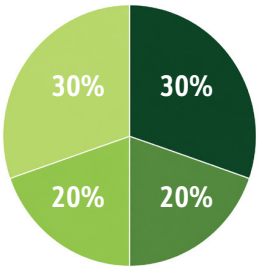


FORAGES

Lowland Blend

Wet soil tolerant

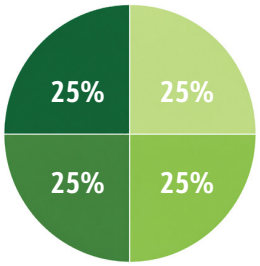
- 30% Forage Tall Fescue
- 30% Timothy
- 20% Alsike Clover
- 20% Reed Canarygrass



Saline Blend

Salt tolerant

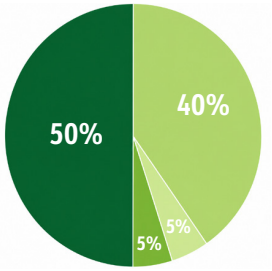
- 25% Tall Wheatgrass
- 25% Crested Wheatgrass
- 25% Slender Wheatgrass
- 25% Creeping Root Alfalfa



Parkside Lawn Mix

Quick establishment & durable

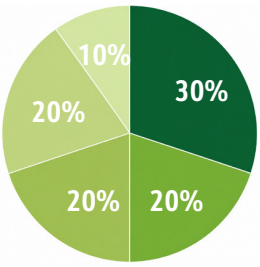
- 50% Kentucky Bluegrass
- 40% Creeping Red Fescue
- 5% Annual Ryegrass
- 5% Perennial Ryegrass



Bin Yard Lawn Mix

Hardy & low maintenance

- 30% Hard Fescue
- 20% Sheep Fescue
- 20% Creeping Red Fescue
- 20% Canada Bluegrass
- 10% Annual Ryegrass



CUSTOM BLENDS

Built for your land. Focused on your success.

