

VOLUME 3

# FORAGE SEED CATALOGUE

COVER CROPS  
ALFALFAS  
GRASSES  
LEGUMES  
CORN



SINCE  1971  
AN ALL CANADIAN COMPANY



**SPEARESEEDS**  
THE SEEDS FOR YOUR SUCCESS



## **SPEARE SEEDS SPECIALIZES IN CUSTOM MIXTURES**

No mix is too big or too small. Our forage specialists will help you to select the best varieties to formulate a forage or cover crop mixture specific to your needs and goals, creating high quality blends for local soil and climate conditions. Coarse seed can be kept separate if needed to make planting easier (please specify when ordering).



**ALFALFAS & LEGUMES**



**GRASSES**



**ORGANICS**



**CORN**



**COVER CROPS**



**TURF GRASSES**




**STOCK FORAGE MIXTURES**



**CUSTOM SEED BLENDING**



Alfalfa*	Seeding Rate
<b>4020 MF ALFALFA (MULTIFOLIATE)</b> Combination of high forage yields and quality. Highly resistant to 6 major diseases that attack alfalfa and is resistant to Aphanomyces Root Rot (Race 2). Very leafy and excellent winter survival with an aggressive regrowth habit.	16-18 lbs. per acre
<b>SHOCKWAVE BR ALFALFA (BRANCH ROOTED)</b> Has a lateral branch root that grows well in lowland conditions and variable soils. Shockwave BR has a high resistance to heaving. Available for use in fields with more variability or heavier clay. The roots can branch out if they encounter wetter conditions that would affect the long term survivability of most tap root varieties. This variety will help to maintain alfalfa longer in the field but will not grow where water pools for long periods of time or is just not suitable for alfalfa in general.	16-18 lbs. per acre 
<b>SURVIVOR ALFALFA (SUNKEN CROWN)</b> Sunken Crown to protect from close grazing and wheel traffic. Used for hay or pasture.	16-18 lbs. per acre
<b>ALGONQUIN ALFALFA (TAP ROOT)</b> A persistent tap rooted alfalfa. Good winter hardiness and persistence.	16-18 lbs. per acre
<b>MERIT BRAND ALFALFA (BRANCH ROOTED / MULTIFOLIATE)</b> An economical and dependable blend of 4 different alfalfas suited for success across a variety of conditions and geographies. Blended by Speare Seeds, Merit Brand Alfalfa provides an excellent combination of multifoliate expression, high forage yield and a branch rooted variety to tolerate variable soils.	16-18 lbs. per acre
<b>LIGHTNING BRAND ALFALFA (MULTIFOLIATE / TAP ROOT)</b> A great choice for multi-cut haylage systems. Early maturity, excellent disease resistance, fast regrowth and winter survival combine for high yielding, consistent production. A multifoliate variety with a tap root.	16-18 lbs. per acre
<b>ANCHOR BRAND ALFALFA (BRANCH ROOTED)</b> A branch rooted alfalfa that can perform better than conventional varieties on heavier soils or imperfectly drained sites. Medium maturity, excellent disease resistance and winter survival make for a durable, long lasting stand.	16-18 lbs. per acre
<b>NITRAGIN® GOLD ALFALFA &amp; SWEET CLOVER INOCULANT</b> Nitrogen-fixing bacteria for alfalfa and sweet clover. OMRI listed.	

Please note: Alfalfa inoculant can be shipped with all orders of straight alfalfa at an additional cost.




Timothy	Seeding Rate
<b>CHAMP TIMOTHY (EARLY MATURITY)</b> Earliest of the timothys. Well adapted to Ontario conditions.	In Mixes: 2-8 lbs. per acre
<b>PROMESSE TIMOTHY (EARLY MATURITY)</b> High yielding, early maturing timothy with good tolerance to waterlogged soils. Extremely leafy. Adapted to cool, moist areas.	In Mixes: 2-8 lbs. per acre
<b>CLIMAX TIMOTHY (LATE MATURITY)</b> Proven late maturing timothy. Well adapted to varying soils and moisture conditions.	In Mixes: 2-8 lbs. per acre
<b>SUNRISE BRAND TIMOTHY (EARLY MATURITY)</b> Sunrise Brand Timothy is a winter hardy, early maturing timothy and is ideal for use in 3 to 5 cut management programs for hay or silage.	In Mixes: 2-8 lbs. per acre
<b>SUNSET II BRAND TIMOTHY (VERY LATE MATURITY)</b> Late maturing, high yielding and improved summer performance.	In Mixes: 2-8 lbs. per acre

Trefoil	Seeding Rate
<b>BRUCE BIRDSFOOT TREFOIL</b> Semi-erect variety with vigorous seedling growth and superior winter hardiness.	Alone: 15 lbs. per acre In Mixes: 5-12 lbs. per acre
<b>BIRDSFOOT TREFOIL</b> Bloat resistant legume for both pastures and hay production.	Alone: 15 lbs. per acre In Mixes: 5-12 lbs. per acre



**\*Please Note:** All legumes (alfalfas, clovers and trefoils) in our stock mixtures have a pre-inoculated seed coating to aid in germination and stand establishment. Please refer to Nitro-Coat® on page 14 in this catalogue for more information.














Clover*	Seeding Rate
<b>WILDCAT DOUBLE CUT RED CLOVER</b> Easy to establish, fast regrowth, excellent winter hardiness and superior persistence for forage production. Can be grown in fields too wet or acidic for alfalfa. Longer persistence than common Double Cut Red Clover.	Alone: 10-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<b>DOUBLE CUT RED CLOVER</b> Short-lived perennial legume used primarily for hay, haylage and plowdown. Red Clover is a bloating legume; use with caution in a pasture mix.	Alone: 8-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<b>SINGLE CUT RED CLOVER</b> Short-lived, late maturing, bi-annual legume with high nitrogen fixing potential.	Alone: 8-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<b>50/50 DC/SC RED CLOVER MIXTURE</b> A short lived, high nitrogen producing crop designed for frost seeding into winter wheat or underseeding into mixed grain. The deep rooted Single Cut mixed with the vigorous top growth produced by the Double Cut makes a perfect plough down crop.	Alone: 8-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<b>ALSIKE CLOVER</b> Especially well adapted to cool climates and wet soils. Does well on soils that are too acidic for red clover and tolerates more alkalinity than most other clovers. Excellent winter hardiness. Fits shorter-term stands. Flood tolerance 7-14 days. DO NOT feed alsike clover to horses.	Alone: 6-8 lbs. per acre In Mixes: 1-2 lbs. per acre
<b>FROSTY BERSEEM CLOVER</b> An annual clover that is best used for haylage or grazing. It has a low risk of bloat and can be cut or grazed multiple times throughout the season. Frosty has a high cold tolerance and can survive down to -15° C. Planting in mid-spring to early summer to get the most growth throughout the year is ideal. Oats make a good companion species for feed. Frosty can also be added to a cover crop mix being planted in early summer. Will tolerate waterlogged soils better than alfalfa. Frosty is coated and pre-inoculated.	Alone: 15 lbs. per acre In Mixes: 4-7 lbs. per acre 
<b>CRIMSON CLOVER</b> Usually planted in the late summer. Can be used in pasture, hay, organic farming, pollinator enhancement, silage mixes, as a winter cover for soil protection or green manure crop for soil improvement.	Alone: 12-18 lbs. per acre In Mixes: 2-6 lbs. per acre
<b>YELLOW BLOSSOM SWEET CLOVER / WHITE BLOSSOM SWEET CLOVER</b> Mainly used for plowdown with its deep taproot. A bi-annual species. More heat and drought resistant than alfalfa. Excellent source of nectar and pollen for bees.	Alone: 12-16 lbs. per acre In Mixes: 2-6 lbs. per acre
<b>ALICE WHITE CLOVER</b>  Combines the persistence of dwarf white clover with the large broad leaf and yield potential of the taller Ladino types. A good addition to pasture mixes.	In Mixes: 1-2 lbs. per acre
<b>CALIFORNIA LADINO CLOVER</b> Tall growing, branch rooted, high yielding, winter-hardy variety. Branched root secures the plant in the ground to prevent heaving when freezing and thawing occur. Best used in hay mixes.	In Mixes: 1-2 lbs. per acre
<b>HUIA WHITE CLOVER</b> Use in hay pasture and ground cover mixes. Shorter growing white clover.	In Mixes: 1-2 lbs. per acre
<b>WHITE CLOVER</b> White Clover is a persistent shorter growing clover that is commonly used in long term pasture blends as it will reseed itself and is adapted to intense low grazing. It is also utilized for ground cover, weed suppression and overseeding into thinning pastures to improve forage yields and quality.	In Mixes: 1-2 lbs. per acre
<b>FIXATION BALANSA CLOVER</b> A small seeded annual that can be used for forage or as a cover crop. FIXatioN can tolerate a wide range of soil types and growing conditions; it is known to withstand very cold temperatures. Quick to germinate, and then top growth slows as it begins to form a rosette and deep tap root. Works best if allowed to over winter and can produce large amounts of nitrogen. FIXatioN can be used to overseed hay or pasture fields to extend their life. Also works well in wildlife and pollinator mixes. FIXatioN is coated and pre-inoculated.	Alone: 5-8 lbs. per acre In Mixes: 2-3 lbs. per acre 
<b>NITRAGIN® GOLD CLOVER INOCULANT</b> Nitrogen-fixing bacteria for red clover. Not OMRI listed.	
<b>NITRAGIN® GOLD ALFALFA &amp; SWEET CLOVER INOCULANT</b> Nitrogen-fixing bacteria for alfalfa and sweet clover. OMRI listed.	



\*Please Note: All legumes (alfalfas, clovers and trefoils) in our stock mixtures have a pre-inoculated seed coating to aid in germination and stand establishment. Please refer to Nitro-Coat® on page 14 in this catalogue for more information.




Orchardgrass	Seeding Rate
<b>PERSIST ORCHARDGRASS</b> Late maturing variety with quick spring re-growth.	In Mixes: 2-6 lbs. per acre
<b>HLR ORCHARDGRASS BLEND</b>  An excellent choice to plant with alfalfa. High yielding. Excellent disease resistant, late maturing varieties have been chosen for this blend.	In Mixes: 2-6 lbs. per acre
<b>ORCHARDGRASS</b> Aggressive grass for early hay or pasture. Will persist on moderately drained soils.	In Mixes: 2-6 lbs. per acre
Bromegrass	Seeding Rate
<b>HAKARI BROMEGRASS</b>  High yielding variety with good seed quality and vigour. Excellent winter hardiness and works well in horse hay mixtures with 3-4 year stand life.	In Mixes: 3-7 lbs. per acre
<b>FLEET MEADOW BROMEGRASS</b> Excellent pasture grass having a bunch-type growth habit, reproduces by tillering. More suited to grazing than smooth bromegrass because of its faster regrowth.	In Mixes: 4-7 lbs. per acre
<b>CARLTON SMOOTH BROMEGRASS</b> High yielding and one of the most winter hardy bromegrasses that will spread over time with rhizomes. An excellent choice for long term hayfields in southern and northern Ontario.	In Mixes: 3-7 lbs. per acre
<b>PRAIRIE BROMEGRASS</b> High yielding with good seed quality and vigour. Works well for 3 year stands in southern Ontario. Seed is clipped for easier planting.	In Mixes: 3-7 lbs. per acre
<b>SMOOTH BROMEGRASS</b> Economical and winter hardy bromegrass for hay that will stay palatable when mature. Long term stand that will spread over time by rhizomes.	In Mixes: 3-7 lbs. per acre
Fescue	Seeding Rate
<b>RUSTLER TALL FESCUE</b> Endophyte free cultivar - soft leafed, very palatable, late maturing and highly digestible - very dense and persistent. Tolerant of moist conditions, best for grazing.	In Mixes: 2-8 lbs. per acre
<b>STF-43 TALL FESCUE BLEND</b>   A blend of late maturing, soft-leaf tall fescues that works great for hay or silage. Highly digestible and works well in mixes with legumes and other grasses.	In Mixes: 2-8 lbs. per acre
<b>FORAGE TYPE TALL FESCUE</b> An economical choice for pasture, silage, or hay on variable soils. Works well in a mix with legumes and other grasses. Safe for all species of livestock as the seed is endophyte-free.	In Mixes: 2-8 lbs. per acre
<b>FESTULOLIUM</b> Late maturing festulolium variety developed for better persistence. Winter-hardy and highly palatable. Also exhibits excellent rust resistance and performs well in heavier soils. Safe for horses.	In Mixes: 2-8 lbs. per acre
<b>MILKWAY FESCUE BLEND</b>   Meadow fescue and tall fescue mix that is well suited for use in T.M.R. rations. Can be planted alone (25 lbs. / acre) or in a mix with alfalfa.	In Mixes: 2-8 lbs. per acre
<b>HDR MEADOW FESCUE BLEND</b>  A blend of meadow fescue varieties that performs well on varying soil conditions and is high yielding with excellent digestibility.	In Mixes: 2-8 lbs. per acre


Ryegrass	Seeding Rate
<b>BG-24T PERENNIAL RYEGRASS BLEND</b>  Persistent and productive, BG-24T is a unique, innovative blend of early and intermediate maturing diploid and tetraploid perennial ryegrass varieties.	Alone: 25 lbs. per acre In Mixes: 3-8 lbs. per acre
<b>BG-34 PERENNIAL RYEGRASS BLEND</b>  Late maturing blend of perennial ryegrasses with good winter hardiness.	In Mixes 3-8 lbs. per acre
<b>PAYDAY PERENNIAL RYEGRASS</b> A late maturing tetraploid variety for silage or pasture. Bred as an endophyte-free forage perennial ryegrass.	Alone: 25-30 lbs. per acre In Mixes: 3-8 lbs. per acre
<b>ENHANCER ITALIAN RYEGRASS</b> A true Italian ryegrass that won't produce seed until the second year. Works well for a forage crop or as a cover crop due to its quick establishment and aggressive growth.	Alone: 20-35 lbs. per acre In Mixes: 3-8 lbs. per acre
<b>GREEN SPIRIT BIENNIAL RYEGRASS BLEND</b>   A biennial ryegrass that can provide high quality forage for silage or grazing. When planted in the spring it will not produce seed heads till the second year. Usually winter hardy if planted by mid-September in most of Ontario. Requires careful management for the highest production and to keep from producing seed heads.	Alone: 30-40 lbs. per acre In Mixes: 3-8 lbs. per acre

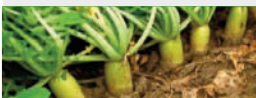
Canarygrass	Seeding Rate
<b>RIVAL REED CANARYGRASS</b> Bred for increased palatability and high yields, very quick regrowth - highly palatable and digestible for hay and pasture applications. Does well in poorly drained and drought prone soils.	In Mixes: 2-8 lbs. per acre

Sorghum	Seeding Rate
<b>SORGHUM SUDANGRASS</b> A thin stemmed variety with quick regrowth. Its thin stems make it highly palatable and it can be ensiled as baleage or silage. When used as a forage, proper management must be exercised following stress, drought or frost as Prussic Acid poisoning can be a potential hazard.	25-35 lbs. per acre
<b>BMR SORGHUM SUDANGRASS</b> A new improved variety in which the lignin stem content has been reduced up to 40%. This sweet juicy midrib allows for greater digestibility and palatability.	25-35 lbs. per acre
<b>WILD GAME FOOD SORGHUM</b> A wild game food sorghum suited for food plots to attract game birds. The large grain head becomes more palatable going into the fall.	Drilled: 5 lbs. per acre Broadcast: 15 lbs. per acre
<b>TEFF GRASS</b> This is a warm season annual grass which can be harvested multiple times during the growing season as dry hay, silage or pasture. Fast growing with excellent forage quality.	5-7 lbs. per acre 8-10 lbs. per acre Coated Seed

Companion Forage Crops	Seeding Rate
<b>SILOBUSTER™ FORAGE BLEND</b> A mixture of 50% Climbing Forage Peas, 25% Spring Triticale, and 25% Barley. Ideal cover crop for overseeding forage stands. Can be planted early in the spring and will be ready for harvest approximately 60 days after planting, depending on the weather. Harvest when the grain is in the boot stage for best feed quality and highest protein (over 20%). Tonnage can be maximized if harvested when the heads have emerged and the grain is in the soft dough stage, but quality starts to decline quickly as the cereals mature. Silobuster™ can also be used for a cover crop at a reduced seeding rate (40-50 lbs. per acre) if not needed for a forage crop.	80-120 lbs. per acre 
<b>50/50 PEA/OAT MIX</b> An excellent choice for a nurse crop underseeded into a hay stand. When cut at the boot stage to early heading, it will make excellent quality forage. Also planted after wheat as an economical fall cover crop.	70-100 lbs. per acre



Perennial Forages	Seeding Rate
<b>CHICORY</b> A leafy perennial forage with good digestibility and high mineral content. Used in rotational grazing systems and wild game food plots.	In Mixes: 2-6 lbs. per acre
Annual Forages and Cover Crops	Seeding Rate
<b>BUCKWHEAT</b> Annual cover crop and plowdown for green manure. Excellent pollinator attractant.	50 lbs. per acre
<b>COW PEAS</b> A warm season legume that requires a lot of heat to grow well for a cover crop. Also known as black-eyed peas, cow peas make an excellent addition to a summer mix with sorghum, pearl millet or sunn hemp. Inoculant is currently unavailable.	30-80 lbs. per acre
<b>FABA BEANS</b> Faba beans are gaining popularity in Ontario as an excellent protein source in the livestock industry. This annual legume can grow 1.5 m in height and produce yields that rival soybeans.	180-200 lbs. per acre
<b>FALL RYE</b> Fall Rye can be utilized as a cover crop for wind erosion, weed suppression and the addition of organic matter. If planted early in August, Fall Rye can also be available for fall forage and a source of feed for the spring.	25-100 lbs. per acre
<b>HAIRY VETCH</b> Mainly used as a cover crop, but can be used as a forage. Winter annual with most growth occurring in the spring. May contain hard seeds that germinate 1-2 years after sowing.	20-40 lbs. per acre
<b>OATS</b> Quick establishment for weed suppression and erosion prevention. Can be utilized in fall for emergency feed.	50-110 lbs. per acre
<b>PHACELIA</b> This annual broadleaf has a very shallow fibrous root system that creates crumbly, aggregate soil particles on the top 2 inches. A favourite of beekeepers as it will produce beautiful flowers from May to September. Phacelia will produce large amounts of biomass with little residue remaining the following spring.	8-15 lbs. per acre
<b>SUNFLOWER SEED</b> A quick growing annual with a deep tap root. Benefits pollinators if planted early enough to flower.	Alone: 5-10 lbs. per acre In Mixes: 1 lb. per acre
<b>SUNN HEMP</b> Fast growing cover crop that suppresses nematodes and weeds. Outstanding nitrogen and biomass production in a short period. Killed by first frost. Needs to be planted in early July. Best to be planted with an inoculant.	9-15 lbs. per acre
Brassicas	Seeding Rate
<b>BARKANT TURNIP</b>  <b>BARENBRUG</b> A tankard type bulb where 50% of the bulb is above the ground. Matures in 8-10 weeks. Has a high bulb yield with increased palatability, and better regrowth than purple top turnip if not grazed too short.	4-5 lbs. per acre
<b>TURNIP</b> A stubble turnip that produces a root as well as leafy top growth. Mainly used for grazing but also popular in cover crop mixes. Ready to graze in 8-10 weeks.	4-5 lbs. per acre
<b>HUNTER BRASSICA</b> A hybrid that works great as emergency feed. Can be pastured 6 weeks after planting under good conditions. Good for rotational grazing.	4-5 lbs. per acre
<b>WINFRED BRASSICA</b> A hybrid between turnip and kale. Has a high leaf to stem ratio. It is early maturing at 9-10 weeks. Very winter hardy.	4-5 lbs. per acre
<b>FODDER RAPE</b> A quick establishing brassica used for forage and cover crops. Has a deep taproot and a lot of lush top growth. Ready for grazing in 10-12 weeks.	7 lbs. per acre
<b>KALE</b> A high quality, high yielding crop that can be used for deer food plots or grazing livestock in a rotational system. The large leafy tops are very nutritious and can be used to extend grazing later into the fall. Ready to graze in 12-14 weeks.	4-10 lbs. per acre

Millet	Seeding Rate
<b>JAPANESE MILLET</b> Excellent for gamebirds. Can tolerate moist soil conditions.	25 lbs. per acre
<b>HYBRID PEARL MILLET</b> High yielding and has high protein. Relatively fast root development and excellent drought tolerance. Does not produce Prussic Acid.	Drill: 10-15 lbs. per acre Broadcast: 15-20 lbs. per acre
Mustard	Seeding Rate
<b>BROWN MUSTARD</b> Used as a green manure.	7-10 lbs. per acre
<b>ORIENTAL MUSTARD</b> Useful bio fumigant for the suppression of a number of nematodes.	7-10 lbs. per acre
<b>WHITE / YELLOW MUSTARD</b> Also known as yellow mustard, white mustard is mainly grown in Ontario for a cover crop. Quick to germinate and can out compete weeds. Helps to control some nematodes, insects, or diseases in vegetable rotations. Does not work well if other brassicas are grown for a cash crop. White Mustard can be planted very early in spring to late summer. Must be worked into the soil for the most biofumigant effect and left to break down for 2- 3 weeks.	5-8 lbs. per acre
Peas	Seeding Rate
<b>AUSTRIAN WINTER PEAS</b> Austrian Winter Peas are a quick establishing, cool-season annual legume with good nitrogen-fixing capabilities. Commonly used for grazing, hay and as a green manure.	90-100 lbs. per acre
<b>BLACK FORAGE PEAS</b> High protein content with excellent digestibility and palatability. Best used in a forage mix. If used as a cover crop, peas possess good nitrogen fixing abilities for soil conditioning.	100 lbs. per acre
<b>YELLOW SEMI-LEAFLESS PEAS</b> Yellow semi-leafless peas have a more open canopy than forage vining peas used for grain production.	90-100 lbs. per acre
<b>PEA INOCULANT</b> Contains Nitrogen fixing Rhizobia to treat 700 kg. of pea seed.	
Radish	Seeding Rate
<b>IMAGE OILSEED RADISH</b> An oilseed radish bred for nematode control and bio-fumigant traits. For best results it needs to be worked into the soil at bloom and allowed to breakdown for 3-5 weeks.	Alone: 8-10 lbs. per acre In Mixes: 4 lbs. per acre
<b>GROUNDBREAKER RADISH</b> A Daikon type forage radish specifically developed for fall/winter cover crop applications. Deep penetrating taproot that reduces soil compaction, builds organic matter and improves nutrient recycling.	2-10 lbs. per acre
<b>TILLAGE RADISH (CERTIFIED BLUE TAG)</b> A cover crop for green manure. Planted after wheat or grain harvest and is the result of over 10 years research, rigorous testing and careful selection of plant attributes. A unique large taproot that can reach depths of 30 inches. BENEFITS: • Increased Crop Yields • Compaction Alleviation • Enhanced Seed Bed • Increased Soil Organic Matter	2-10 lbs. per acre 
*Radishes are heavy nitrogen users. They require manure or additional fertilizer for maximum growth.	
Triticale	Seeding Rate
<b>SPRING TRITICALE</b> A cool-season cereal crop originating from a cross of Durum wheat and rye. Taller and leafier than wheat or oats, it tolerates hot, dry weather better than wheat, is higher in protein and has more feed value when chopped for forage.	75-100 lbs. per acre
<b>WINTER TRITICALE</b> High-yielding, early maturing cross between winter rye and winter wheat. Winter triticale does double duty as a cover crop planted in the fall while producing high-quality forage in late spring.	75-100 lbs. per acre





## Economy Mixtures

Mixture	Ingredients	Seeding Rate	Mixture	Ingredients	Seeding Rate
<b>ECONOMY HAY MIXTURE</b>	50 % Timothy 40 % Alfalfa 10 % Double Cut Red Clover 100 %	18 lbs. per acre	<b>ECONOMY PASTURE MIXTURE</b>	45 % Timothy 5 % White Clover 15 % Meadow Fescue 15 % Festulolium 10 % Orchardgrass 10 % Smooth Bromegrass 100 %	18-25 lbs. per acre  * Available with coarse seed separate
<b>80/20 ALFALFA &amp; TIMOTHY MIXTURE</b>	80 % Alfalfa 20 % Timothy 100 %	18 lbs. per acre	<b>A MIXTURE</b>	50 % Timothy 30 % Alfalfa 20 % Double Cut Red Clover 100 %	12-15 lbs. per acre
<b>70/30 ALFALFA &amp; TIMOTHY MIXTURE</b>	70 % Alfalfa 30 % Timothy 100 %	18 lbs. per acre	<b>B MIXTURE</b>	55 % Timothy 30 % Double Cut Red Clover 15 % White Clover 100 %	12-15 lbs. per acre

SS Forage Supreme Hay Mixtures	Ingredients	Seeding Rate
<b>SS FORAGE KING BR MIXTURE</b> The legendary branch rooted trait combined with a proven late timothy for optimum yields under less than ideal soil conditions and variable drainage.	80 % Anchor Brand Alfalfa 20 % Promesse Timothy 100 %	16-18 lbs. per acre
<b>SS FORAGE KING MF MIXTURE</b> A premium Dairy Hay mixture combining a first class multifoliate alfalfa with a very late Timothy for peak production under optimum conditions.	80 % Lightning Brand Alfalfa 20 % Promesse Timothy 100 %	16-18 lbs. per acre
<b>SS LONG TERM HAY MIXTURE</b> A grass based hay pasture mixture for a longer rotation. *Coarse seed available separate on request. <ul style="list-style-type: none"> <li>• Produces a very dense stand.</li> <li>• Excellent disease resistance and winter hardiness.</li> </ul>	25 % Anchor Brand Alfalfa 25 % Promesse Timothy 10 % Festulolium 10 % HLR Orchardgrass 15 % STF-43 Tall Fescue Blend 15 % Carlton Bromegrass 100 %	18 lbs. per acre
<b>SS MILK MASTER MIXTURE</b> An alfalfa based mixture to produce high quality and nutritious hay for all uses. <ul style="list-style-type: none"> <li>• Produces highly palatable and highly digestible hay to increase milk production.</li> </ul>	74 % Merit Brand Alfalfa 23 % Promesse Timothy 3 % Wildcat Double Cut Red Clover 100 %	18 lbs. per acre
<b>SS SUPER HAY PASTURE MIXTURE</b> A premium quality hay pasture mixture. Formulated with fine seeded species for easier planting. <ul style="list-style-type: none"> <li>• Premium high yielding grass/alfalfa mixture.</li> <li>• Varieties chosen have performed well in OMAFRA trials.</li> </ul>	45 % Lightning Brand Alfalfa 36 % Promesse Timothy 7 % STF-43 Tall Fescue Blend 7 % Festulolium 3 % Wildcat Double Cut Red Clover 2 % California Ladino Clover 100 %	16-18 lbs. per acre
<b>SS TAR MIXTURE</b> A combination of timothy and clover to provide hay where acidic soils might exist. TIP: Do not use mixture for horse hay or pasture.	70 % Climax Timothy 15 % Alsike Clover 15 % Wildcat Double Cut Red Clover 100 %	18 lbs. per acre



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SS Forage Supreme Pasture Mixtures	Ingredients	Seeding Rate
<b>SS FROST SEEDING PASTURE MIXTURE</b> For rejuvenating forages to restore productivity and enhance pasture or hay fields by overseeding or frost seeding for long term renovation. The ideal time to frost seed is in the very early spring.	10 % Bruce Birdsfoot Trefoil 7 % Huia White Clover 10 % Double Cut Red Clover 20 % Baridana Orchardgrass 25 % BG-24T Perennial Ryegrass Blend 15 % Promesse Timothy 13 % Fixation Balansa Clover 100 %	8 lbs. per acre
<b>SS HORSE PASTURE &amp; PADDOCK MIXTURE</b> A broad based grass mixture designed to produce fresh, tender forage throughout the grazing season for all types of horses. <ul style="list-style-type: none"> <li>Persistent pasture due to Forage Type Kentucky Bluegrass which is a sod forming grass that can withstand heavy grazing and hoof traffic.</li> </ul> * Also available with Orchardgrass	15 % BG-34 Perennial Ryegrass Blend 25 % Forage Type Tall Fescue 40 % Promesse Timothy 15 % Forage Type Kentucky Bluegrass 5 % Huia White Clover 100 %	25 lbs. per acre
<b>SS LOWLAND PASTURE MIXTURE</b> Specially designed for lower ground that will produce grass hay for livestock and productive pasture throughout the entire growing season. <ul style="list-style-type: none"> <li>Designed for heavier, wetter soil types where alfalfa may be difficult to establish.</li> </ul>	35 % Promesse Timothy 20 % Forage Type Tall Fescue 15 % Festulolium 15 % Meadow Fescue 10 % Fixation Balansa Clover 5 % Double Cut Red Clover 100 %	18-20 lbs. per acre
<b>SS PASTURE OVERSEEDING MIXTURE</b> An inexpensive short term option for thinning pastures or hay stands. <ul style="list-style-type: none"> <li>Extends the life of your stand.</li> <li>Improves yield and forage quality.</li> </ul>	50 % BG-34 Perennial Ryegrass Blend 40 % Double Cut Red Clover 10 % Frosty Berseem Clover 100 %	6-8 lbs. per acre
<b>SS PASTURELAND MIXTURE</b> A quality pasture mixture that can be used for hay. All seed will go through fine grass seed attachment on drill. <ul style="list-style-type: none"> <li>Ideal for optimum palatability and digestibility.</li> <li>Survivor Alfalfa adds increased protein and nutrition.</li> </ul>	20 % Survivor Alfalfa 25 % Merit Brand Alfalfa 40 % Promesse Timothy 3 % California Ladino Clover 8 % Bruce Birdsfoot Trefoil 4 % Forage Type Tall Fescue 100 %	18-20 lbs. per acre
<b>SS PERMANENT PASTURE MIXTURE</b> For long term pasture that will last for years if properly fertilized and maintained. A grass/legume blend to provide productive pasture throughout the entire grazing season. <ul style="list-style-type: none"> <li>Coarse Seed Available Separate on Request</li> <li>Versatile pasture mixture suited for a variety of soil types and conditions.</li> </ul>	30 % HLR Orchardgrass 20 % STF-43 Tall Fescue Blend 20 % BG-34 Perennial Ryegrass Blend 25 % Promesse Timothy 5 % Fixation Balansa Clover 100 %	20 lbs. per acre
<b>SS SHEEP &amp; GOAT PASTURE MIXTURE</b> A versatile pasture mixture that provides grasses and clover maturing at differing times to always provide quality forage. <ul style="list-style-type: none"> <li>Quality forage for sheep and goats.</li> <li>Contains soft leaf fescues and grasses making it extremely palatable.</li> </ul>	20 % Climax Timothy 20 % Forage Type Tall Fescue 20 % BG-24T Perennial Ryegrass Blend 10 % Fixation Balansa Clover 10 % HLR Orchardgrass 10 % Festulolium 8 % Forage Type Kentucky Bluegrass 2 % Creeping Red Fescue 100 %	20 lbs. per acre



**\*Please Note:** All legumes (alfalfas, clovers and trefoils) in our stock mixtures have a pre-inoculated seed coating to aid in germination and stand establishment. Please refer to Nitro-Coat® on page 14 in this catalogue for more information.



SS Forage Supreme Grass Mixtures	Ingredients	Seeding Rate
<b>SS MAGIC MIXTURE</b> A diverse blend of grasses that works well with legumes or can be planted by itself. Will do well on light to medium soils.	35 % Hakari Bromegrass 10 % Reed Canarygrass 10 % STF-43 Tall Fescue Blend 10 % HLR Orchardgrass 15 % Remington Perennial Ryegrass 20 % Festulolium 100 %	25-30 lbs. per acre straight 4-8 lbs. per acre with 12-16 lbs. Alfalfa or Alfalfa/Timothy Mix
<b>SS MIRACLE MIXTURE</b> A blend of medium and late maturing varieties that will work well for haylage or dry hay. Much better regrowth than timothy or smooth bromegrass.	50 % Hakari Bromegrass 25 % STF-43 Tall Fescue Blend 25 % Festulolium 100 %	25-30 lbs. per acre straight 4-8 lbs. per acre with 12-16 lbs. Alfalfa or Alfalfa/Timothy Mix
<b>SS MYSTIC MIXTURE</b> A quick establishing mix that makes an excellent addition to alfalfa or red clover for haylage. Good choice for a 2-3 year stand.	35 % Hakari Bromegrass 10 % STF-43 Tall Fescue Blend 10 % HLR Orchardgrass 20 % Remington Perennial Ryegrass 25 % Festulolium 100 %	25-30 lbs. per acre straight 4-8 lbs. per acre with 12-16 lbs. Alfalfa or Alfalfa/Timothy Mix

Specialty Mixtures	Ingredients	Seeding Rate
<b>DITCH &amp; BANK MIXTURE</b> An attractive long-term, low maintenance ground cover. Equally useful for naturalizing open areas or for stabilizing slopes. Combines a low-growing perennial legume with a sod-forming, non-aggressive grass. Trefoil produces an abundance of yellow flowers, and reseeds itself, thickening up in time. May be maintained at 6-10 inches, or left to grow to 18 inches.	60% Creeping Red Fescue 40% Birdsfoot Trefoil 100 %	30-60 lbs. per acre
<b>EROSION CONTROL MIXTURE</b> A long-term grass mix to hold the soil on slopes for areas that will be used for hay or pasture. Ryegrass will get started quickly to hold soil while the other species get established.	30 % Climax Timothy 30 % Barolex Tall Fescue 20 % Remington Perennial Ryegrass 15 % Festulolium 5 % Fixation Balansa Clover 100 %	30-60 lbs. per acre
<b>GRASS WATERWAY MIXTURE</b> A long-term mix designed to hold the soil in waterways and embankments. Contains annual ryegrass for fast establishment, fescues for long-term root growth to hold the soil in place and alsike clover that can survive in wetter locations.	40% Creeping Red Fescue 30% Tall Fescue 15% Alsike Clover 15% Annual Ryegrass 100 %	30-60 lbs. per acre
<b>NON-CROPLAND POLLINATOR MIX</b> A very diverse mix that appeals to a range of pollinators with annual and perennial species. Plant heights range from 6" to 4'+ and is designed for larger areas where a low maintenance cover is desired. Not recommended for small flower beds. Can be mowed in the establishment year to control weeds if needed before the desired species get too tall.	Alfalfa, White Clover, Yellow Blossom Sweet Clover, Crimson Clover, Chicory, Sunflower, Alsike Clover, Single Cut Red Clover, Double Cut Red Clover, Brown Mustard, Groundbreaker Radish	20 lbs. per acre

## SS Custom Forage Mixtures

Our forage specialists will help you to select the best varieties to formulate a forage or cover crop mixture specific to your needs and goals, creating high quality blends for local soil and climate conditions. Coarse seed can be kept separate if needed to make planting easier (please specify when ordering).



**\*Please Note:** All legumes (alfalfas, clovers and trefoils) in our stock mixtures have a pre-inoculated seed coating to aid in germination and stand establishment. Please refer to Nitro-Coat® on page 14 in this catalogue for more information.



Organic Seed	Seeding Rate
<b>ORGANIC ALFALFA</b> Once established, alfalfa has a large, strong tap root that can aid in compaction, decrease erosion and improve soil health through nitrogen fixing abilities. As a forage legume, alfalfa also produces excellent feed as pasture, dry hay and haylage.	16-18 lbs. per acre
<b>ORGANIC TIMOTHY</b> Timothy is primarily used as a perennial forage grass for hay and pasture because of its compatibility with alfalfas, trefoils and clovers. It's easy to establish and is persistent on land with variable drainage and a wide variety of soil PH conditions.	In Mixes 2-8 lbs per acre
<b>ORGANIC DOUBLE CUT RED CLOVER</b> As a short-lived perennial legume, clover is a popular cover crop for soil improvement. When used as a plowdown, red clover will contribute excellent soil tilth as green manure and provide substantial nitrogen for the following crop rotation. Clover can be used in forage blends for hay and haylage and will tolerate more wet and acidic soils than alfalfas.	Alone: 10-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<b>ORGANIC SINGLE CUT RED CLOVER</b> Single Cut Red Clover is a short-lived, later maturing bi-annual legume that has a high nitrogen fixing potential as it produces a large root system that is beneficial for soil conditioning, adding nitrogen, tilth, and aids in drainage. It is often mixed with Double Cut Red Clover when used as a plowdown to utilize both beneficial aspects of these varieties.	Alone: 10-12 lbs per acre In Mixes: 2-4 lbs per acre
<b>ORGANIC ALSIKE CLOVER</b> Alsike Clover is a winter hardy species of clover that is especially well adapted to cool climates and wet soil conditions. It is also persistent on soils that may be too acidic for red clovers and can tolerate more alkalinity than some other forage species. <b>Warning: Alsike Clover should not be used in Horse Hay or Horse Pasture Mixtures.</b>	Alone: 6-8 lbs. per acre In Mixes: 1-2 lbs. per acre
<b>ORGANIC YELLOW BLOSSOM SWEET CLOVER</b> Yellow Blossom Sweet Clover is a deep-rooted biennial legume that is very quick to establish making it an excellent plowdown clover. The deep root system offers great nitrogen fixing abilities and the addition of organic matter. It is also an excellent source of nectar and pollen for bees. <b>Warning: Caution and proper management should be taken if using Yellow Blossom Sweet Clover for pasturing or in hay blends.</b>	Alone: 12-16 lbs. per acre In Mixes: 2-6 lbs. per acre
<b>ORGANIC FORAGE PERENNIAL RYEGRASS</b> When used in forage, Perennial Ryegrasses are high in crude protein and offer good digestibility and palatability to supplement the grass component of haylage and pasture mixtures. Ryegrass is quick to establish and aids in weed suppression and soil erosion. It will produce higher yielding growth on soils with adequate drainage to prevent winter kill.	Alone: 25-30 lbs. per acre In Mixes: 3-8 lbs. per acre
<b>ORGANIC ORCHARDGRASS</b> Orchardgrass possesses more rapid re-growth than most grasses and has good drought tolerance. With maturity, Orchardgrass will lose palatability and digestibility more quickly so proper management with hay and pasture applications is required. Later maturing varieties will have better palatability with higher protein levels following re-growth.	In Mixes: 2-6 lbs. per acre
<b>ORGANIC WHITE CLOVER – OMRI COATED SEED</b> White Clover is a persistent shorter growing clover that is commonly used in long term pasture blends and is adapted to intense low grazing. It is also utilized for ground cover for weed suppression and overseeding into thinning pastures to improve forage yields and quality.	In Mixes: 1-2 lbs. per acre
<b>ORGANIC SORGHUM SUDANGRASS</b> A quick growing, high quality forage that thrives during the heat of summer. Protein and digestibility begin to decline with lengthy harvest delays so proper management is necessary. Sorghum Sudangrass is best used ensiled as baleage or put in silos. <b>Warning: Sorghum may be subject to high Prussic Acid levels following frost, drought or stress.</b>	25-35 lbs. per acre
<b>ORGANIC OATS</b> Oats are a traditional feed crop in Ontario, especially for horses. They have better balanced protein and a higher fibre content than barley. Oats are a better choice than barley as a nurse crop for underseeding.	75-120 lbs. per acre
<b>ORGANIC FORAGE PEAS</b> Forage peas in a mixture with cereals makes for an ideal cover crop for overseeding forage stands or are commonly used with oats as a nurse crop for alfalfa. Peas also add nitrogen and tilth as a post-harvest green manure.	40-100 lbs. per acre
<b>ORGANIC FALL RYE</b> Fall Rye can be utilized as a cover crop for wind erosion, weed suppression and the addition of organic matter. If planted early enough in August, Fall Rye can also be available for fall forage and a source of feed for the spring.	50-100 lbs. per acre
<b>ORGANIC BUCKWHEAT</b> Annual cover crop and plowdown for green manure. Excellent pollinator attractant.	50 lbs. per acre



Organic Seed	Seeding Rate
<b>ORGANIC FESTULOLIUM</b> Winter hardy and high yielding, with better longevity than ryegrasses. Best adapted to regions that experience periods of cool temperatures and humidity during the year. Due to its deep and robust root system, it can tolerate a wide range of climatic stresses after establishment including heat, drought and cold.	In Mixes 2-8 lbs per acre
<b>ORGANIC MEADOW FESCUE</b> Meadow fescue performs well on varying soil conditions and is high yielding with excellent digestibility.	In Mixes 2-8 lbs per acre
<b>ORGANIC TALL FESCUE</b> Deep rooted persistent grass for variable soils. Note: Only certified forage type varieties should be used for forage applications to ensure they are 'endophyte-free' as endophyte fescues may cause problems for some ruminants and horses.	In Mixes: 2-8 lbs. per acre
<b>ORGANIC SOYBEANS</b> Mostly grown for an oilseed grain, but can also be used in cover crop mixes or for forage. Different maturities are required in different areas based on the length of growing season. Inquire for availability.	75-130 lbs. per acre
<b>ORGANIC SPELT</b> Cereal grown for grain production and straw. Has a hull covering the kernel that must be removed before processing. There are spring and winter spelt available, inquire for availability. The seed may be hulled or dehulled.	110-200 lbs. per acre
<b>ORGANIC SUNFLOWERS</b> Hybrid black oilseed sunflowers are grown for oilseed grain production. Highest yielding for commercial production. Seed is sold by the unit and is sized. Open pollinated black oilseed sunflowers are grown for wildlife plots or cover crops mainly. Inquire for availability	6-8 lbs. per acre 15-40 lbs. per acre depending on use.
<b>ORGANIC VETCH</b> An annual scrambling and climbing legume. It has a slender highly branched taproot that can go down to 1-1.5 m deep. Its stems are thin, angled, procumbent and branched. Common vetch also provides a valuable cover crop and green manure.	20-40 lbs per acre

## Organic & Hybrid Seed Corn

Speare Seeds carries a wide selection of organic and conventional hybrid corn varieties in a range of heat units that cover from 2400 – 3100 CHU. Some silage only varieties are available as well.



Speare Seeds is proud to be certified as an Organic Seed Processor by the Centre for Systems Integration, a division of the Canadian Seed Institute. Since all of our organic forage pasture and hay seeds are subject to the Seeds Act and Regulations, we can guarantee top quality organic seed, some that are grown right here in Ontario.



Turf Mixtures	Ingredients	Seeding Rate
<b>PREMIUM MIXTURE</b> Tried and proven – A Speare Seeds mixture for over 40 years. An excellent, economical option for new lawns or overseeding. <ul style="list-style-type: none"> <li>Excellent turf quality.</li> </ul>	<b>40%</b> Kentucky Bluegrass <b>40%</b> Creeping Red Fescue <b>20%</b> Cert. Self-repairing PR <b>100%</b>	5 lbs. per 1,000 sq. ft.
<b>PLAYGROUND MIXTURE</b> Low maintenance ground cover ideal for large properties, playgrounds and cottages. <ul style="list-style-type: none"> <li>A mixture of 7 different species suited for the Northern climate.</li> <li>Distinct traits for low maintenance grass.</li> <li>Grows well in sun and moderate shade.</li> </ul>	<b>28%</b> Creeping Red Fescue <b>10%</b> Timothy <b>5%</b> Kentucky Bluegrass <b>2%</b> White Clover <b>20%</b> Tall Fescue <b>25%</b> Annual Ryegrass <b>10%</b> Turf-type Perennial Ryegrass <b>100%</b>	5 lbs. per 1,000 sq. ft.

\*Please visit our website for more turf mixtures

## NITRO-COAT® COATING FOR LEGUMES

### Nitro-Coat® Advantage

Nitro-Coat® is a proven process grounded by decades of research, innovative technology, and state of the art systems, designed to help plants reach their full potential. For legumes, this means a high-level of live rhizobium that will produce lots of nitrogen-producing nodules, which in turn, will create stronger, healthier plants. This is the Nitro-Coat® Advantage.

### Advantage of Inoculation

Every Nitro-Coated® seed begins with the advantage of proper inoculation. Nitrogen fixation is one of the key values found in legumes and can only occur with the proper inoculation. Although many strains or Rhizobium may be present in the soil, all are not equally beneficial. With Nitro-Coat® each seed is inoculated with the correct Rhizobium strains and coated through a proven process that ensures a very high level of successful inoculation. In addition to our standard Nitro-Coat® for legumes, we offer Nitro-Coat® for alfalfas – an exclusive blend of four Rhizobium strains, developed from over 30 years of research.

### Naturally Hydroscopic

A key to any successful establishment and early seed development is moisture. Nitro-Coat® is both naturally hydrophobic and hydroscopic. The protective coating protects seeds from suddenly germinating during a brief single moisture event, while at the same time naturally absorbs water during sufficient moisture events and helps attract soil moisture to the seed for better stand establishment.

### Organic Nitro-Coat®

An organic version of OMRI Listed Nitro-Coat® is available for alfalfas, clovers, and legumes. Our coating has been reviewed and listed by the Organic Materials Review Institute (OMRI).

Please visit our website, [www.speareseeds.ca](http://www.speareseeds.ca), for more information.





**Healthier soils begin with seed**

Speare Seeds is committed to the adoption of cover crops wherever agricultural land exists. Cover crops have been a part of crop rotations for many years. The concept of our company focus on extended research and development of cover crops will continue to expand, increasing your soils' health for the years to come.

**CHOOSING COVER CROPS TO MEET YOUR GOAL**

- 1 Sequester Nutrients:**  
Aggressively scavenge and cycle nutrients from deep within the soil profile to the root zone.
- 2 Reduce Soil Erosion:**  
Top growth and root systems create an interior shield from erosion and minimize "splash" and wind erosion.
- 3 Nitrogen Source:**  
Legumes produce additional N by fixating atmospheric nitrogen in the soil.
- 4 Break Up Soil Compaction:**  
Deep roots break up compacted soils to create pore space, improving aeration, water movement and increasing soil organisms.
- 5 Weed Control:**  
Create competition against winter annuals and other weeds by shading them out and preventing them from absorbing valuable moisture and nutrients.
- 6 Pest Control:**  
Cover crops have the ability to suppress nematode populations by premature egg hatching. Removing winter annuals that might play host for refuge will also help decrease populations.
- 7 Generate Additional Forage:**  
Cover crop species have the added benefit of being a "dual purpose" crop that can be used as valuable forage when needed.
- 8 Wildlife and Pollinators:**  
Fall, winter and spring cover crops create perfect environments for wildlife protection, food and nesting. Biodiversity created by cover crops create positive effects on native pollinators.
- 9 Organic Matter:**  
The breakdown of cover crops add organic humus to the soil and feed soil microbes, improve soil tilth, soil quality and water holding capacity.

**Seeding Application Methods:**

- Drill or Traditional - Air Seeder
- Broadcast Applications
- Aerial - Surface Seeding
- Precision - Row-Crop Planters

Refer to **pages 7 and 8** for cover crop species offered under the Soils Supreme program.



THE SEEDS FOR YOUR SUCCESS



**SPEARESEEDS**

P (519) 338 3840

F (519) 338 2510

E [info@speareseeds.ca](mailto:info@speareseeds.ca)