

FORAGE SEED PRODUCT GUIDE

VOLUME 4



COVER CROPS | ALFALFAS | GRASSES | LEGUMES | ORGANIC | TURF SEED

50
SPEARESEEDS

CELEBRATING 50 YEARS IN BUSINESS





Spear Seeds Limited is a Canadian owned forage and turf seed business based in Harriston, ON, Canada. We take pride in our Canadian heritage and our 50 year history of serving customers across Canada.

Spear Seeds Limited is committed to providing quality products to our customers and we aim to deliver solutions that surpass our customers' needs.

We offer an extensive variety of forage and turf seeds which allows us to service the needs of several growing markets. We also offer custom blending to accommodate your individual requirements.

Our relationships with producers and suppliers in Canada and around the world enable us to provide innovative products for the demands of today's diverse agricultural and farming needs.

**Big Enough
to Bring You Value,
Small Enough
to Care**

WHO WE ARE



RICK ELLIOTT
OWNER / PRESIDENT



SCOTT BOWMAN
GENERAL MANAGER



BRANDY MCCAREY
SALES & MARKETING



EUGENE KELLY
WAREHOUSE MANAGER



IAN MCCAREY
AC OPERATOR / GRADER
REGISTERED ORGANIC PROCESSOR



LAWRENCE LEVESQUE
FORAGE SALES



KEVIN AITKEN
FORAGE SALES



DOUG SHIRRAY
FORAGE / CORN SALES



KEVIN FALLS
FORAGE / TURF SALES



OFFICE TEAM

KRISTA HALE
OFFICE MANAGER

KRISTY KELLY
ACCOUNTS PAYABLE

ANDREA CHAMBERS
RECEPTION

CHRISTINE BOWMAN
ACCOUNTS RECEIVABLE



WAREHOUSE TEAM

Alfalfa

*All alfalfas are available with Nitro-Coat® or as bare seed

SEEDING RATE

18-20 lbs. per acre

NEW REBOUND 6XT (TAP ROOT MULTIFOLIATE)

An aggressive alfalfa with very early spring growth and rapid regrowth best suited for 4 or 5 cut haylage systems. This fast growth produces high yields with excellent digestibility producing more milk per acre than traditional varieties. Very winter hardy (Rating 1.5) with excellent disease resistance including Aphanomyces Root Rot (Races 1 & 2) making it withstand wet soil. Count on Rebound 6XT coated with GroZone® to give you reliable results for years.

4020 MF ALFALFA (MULTIFOLIATE)

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.

SHOCKWAVE BR ALFALFA (BRANCH ROOTED)

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.

SURVIVOR ALFALFA (SUNKEN CROWN)

Sunken Crown to protect from close grazing and wheel traffic. Used for hay or pasture.

ALGONQUIN ALFALFA (TAP ROOT)

A persistent tap rooted alfalfa. Good winter hardiness and persistence.

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

SS SUPREME ALFALFA BRANDS

ANCHOR BRAND ALFALFA

- Branch rooted
- Medium maturity
- Performs well on heavier soils or imperfectly drained sites
- Excellent disease resistance and winter survival make for durable, long lasting stand

LIGHTNING BRAND ALFALFA

- Multifoliate, tap root
- Early maturity
- Great choice for multi-cut haylage systems
- Excellent disease resistance, fast regrowth and winter survival for high yielding, consistent production

MERIT BRAND ALFALFA

- Economical and dependable blend of 4 different alfalfas
- Well suited for a variety of conditions and geographies
- Excellent combination of multifoliate expression, high forage yield and a branch rooted variety to tolerate variable soils



SS FORAGE KING BR MIXTURE


18 - 20 lbs. per acre

80% Anchor Brand Alfalfa
20% Tuukka Timothy
100%

SS FORAGE KING MERIT MIXTURE

18 - 20 lbs. per acre

80% Merit Brand Alfalfa
20% Tuukka Timothy
100%

Clover	SEEDING RATE
<p>DYNAMITE DOUBLE CUT RED CLOVER A high-yielding, double cut clover, selected for both improved disease resistance and forage production. Exhibits early spring growth and abundant regrowth after harvest which improves the overall life of the stand.</p>	Alone: 10-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<p>HUIA WHITE CLOVER A medium leaf, shorter white clover ideal for permanent pasture and ground cover mixes. Pedigreed variety with consistent growth, high yield while maintaining its quality better than grasses throughout the growing season. Low bloat risk and safe for all livestock, especially sheep and horses.</p>	In Mixes: 2-3 lbs. per acre
<p>RED CLOVER</p> <ul style="list-style-type: none"> • DOUBLE CUT RED CLOVER • SINGLE CUT RED CLOVER • 50/50 DC/SC RED CLOVER MIXTURE 	Alone: 8-12 lbs. per acre In Mixes: 2-4 lbs. per acre
<p>WHITE CLOVER 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.</p>	In Mixes: 1-2 lbs. per acre
<p>ALSIKE CLOVER 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. WARNING: Alsike Clover should not be used in Horse Hay or Horse Pasture Mixtures.</p>	Alone: 6-8 lbs. per acre In Mixes: 1-2 lbs. per acre
<p>FROSTY BERSEEM CLOVER An annual clover that is best used for haylage or grazing. 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.</p>	Alone: 15 lbs. per acre In Mixes: 4-7 lbs. per acre 
<p>CRIMSON CLOVER 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.</p>	Alone: 12-18 lbs. per acre In Mixes: 2-6 lbs. per acre
<p>YELLOW BLOSSOM SWEET CLOVER 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. WARNING: Caution and proper management should be taken if using Yellow Blossom Sweet Clover for pasturing or in hay blends.</p>	Alone: 12-16 lbs. per acre In Mixes: 2-6 lbs. per acre
<p>SYNERGY LADINO CLOVER 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.</p>	In Mixes: 1-2 lbs. per acre
<p>ALICE WHITE CLOVER A large leaved white clover variety with tall vigorous growth achieving excellent yield. Extremely winter hardy and grazing tolerant makes it an excellent legume to combine with grasses for a highly palatable and nutritive pasture. Performs well in a range of soil including lower ph and poorly drained soil conditions.</p>	In Mixes: 2-4 lbs. per acre
Trefoil	SEEDING RATE
<p>BRUCE BIRDSFOOT TREFOIL Semi-erect variety with vigorous seedling growth and superior winter hardiness.</p>	Alone: 15 lbs. per acre In Mixes: 5-12 lbs. per acre





NUTRIFIBER The highly Digestible, Effective Fiber for Dairy Rotations

NutriFiber is a forage grass technology, available in select Barenbrug grasses, that helps modern dairy producers by providing physically effective, digestible fiber for today's high producing cows. Today's high producing dairy cows require both Non-Fiber Carbohydrate (NFC) and Neutral Detergent Fiber (NDF). Properly balancing NFC and NDF is critical for animal health and profitable production.



Promote Rumen health

Reduce Acidosis

Increase Milkfat

Supports High Milk Production



GREEN SPIRIT®

HIGHEST QUALITY COOL SEASON GRASS

- Short season forage crop
- Increase corn silage yields in rotation
- Ideal for inter-seeding into thinning alfalfa
- Can be planted as straight stands



MILKWAY

MEADOW & SOFT-LEAF FESCUES

- Wide range of adaptation
- Highest quality perennial forage
- Traffic tolerant, ideal for multiple manure applications
- Improve butterfat and milk yield



STF-43™

SOFT-LEAF FESCUES

- Widely adapted perennial
- 10-15% better digestibility than typical tall fescues
- Long lived
- Ideal for nutrient management needs on large dairies

Bromegrass

SEEDING RATE In Mixes: 3-7 lbs. per acre**HAKARI BROMEGRASS**

High yielding variety with good seed quality and vigour. Excellent winter hardiness. Works well in horse hay mixtures.

FLEET MEADOW BROMEGRASS

Excellent pasture grass having a bunch-type growth habit, reproduces by tillering. More suited to grazing than smooth bromegrass because of its faster regrowth.

CARLTON SMOOTH BROMEGRASS

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.

PRAIRIE BROMEGRASS

High yielding with good seed quality and vigour. Works well for 3 year stands in southern Ontario. Seed is clipped for easier planting.

Canarygrass

SEEDING RATE In Mixes: 2-8 lbs. per acre**RIVAL REED CANARYGRASS**

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.

Fescue

SEEDING RATE In Mixes: 2-8 lbs. per acre**HDR MEADOW FESCUE BLEND**

A blend of meadow fescue varieties that performs well on varying soil conditions and is high yielding with excellent digestibility.

MILKWAY FESCUE BLEND

Meadow fescue and soft-leaf 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.

**RUSTLER TALL FESCUE**

Soft leaves, very palatable, late maturing and highly digestible. Very dense and persistent. Tolerant of moist conditions, best for grazing.

STF-43 TALL FESCUE BLEND

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.

**FESTULOLIUM**

Late maturing cross between meadow fescue and (tetraploid) perennial ryegrass. Winter hardy and highly palatable. Festulolium's persistence and outstanding yields result in a forage grass that truly is the best of both worlds for short rotation.

Italian Ryegrass

SEEDING RATE 30-50 lbs. per acre**ENHANCER ITALIAN RYEGRASS**

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.

GREEN SPIRIT ITALIAN RYEGRASS BLEND

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.



Orchardgrass

SEEDING RATE In Mixes: 2-6 lbs. per acre**HLR ORCHARDGRASS BLEND**

An excellent choice to plant with alfalfa. High yielding. Excellent disease resistant, very late maturing varieties have been chosen for this blend.

PERSIST ORCHARDGRASS

Late maturing variety with early spring establishment. Quick regrowth for excellent yield.



Ryegrass

SEEDING RATE Alone: 25 lbs. per acre In Mixes: 3-8 lbs. per acre

BG-24T PERENNIAL RYEGRASS BLEND

 BARENBRUG

Persistent and productive, BG-24T is a unique, innovative blend of early and intermediate maturing diploid and tetraploid perennial ryegrass varieties.

BG-34 PERENNIAL RYEGRASS BLEND

 BARENBRUG

Late maturing blend of perennial ryegrasses with good winter hardiness.

MARA PERENNIAL RYEGRASS

 BARENBRUG

Mara is a new variety and the most winter-hardy perennial ryegrass Barenbrug offers. Mara is an intermediate maturity, diploid perennial ryegrass with high yields. Exceptional winterhardiness, and exhibits more tolerance to heat and drought than traditional perennial ryegrasses. Establishes quickly, exhibits rapid regrowth and easily forms a dense sward. Exceptional forage quality makes it ideal in a grazing situation.

QUARTERMASTER PERENNIAL RYEGRASS

Highly palatable medium/late maturing tetraploid perennial ryegrass that exhibits the high forage production of a hybrid yet retains the persistence of a true perennial ryegrass.

Timothy

SEEDING RATE In Mixes: 2-8 lbs. per acre

CLIMAX TIMOTHY (LATE MATURITY)

Proven late maturing timothy. Well adapted to varying soils and moisture conditions.

SUNRISE BRAND TIMOTHY (EARLY MATURITY)

Winter hardy, early maturing timothy ideal for use in 3 to 5 cut management programs for hay or silage.

SUNSET II BRAND TIMOTHY (VERY LATE MATURITY)

Late maturing, high yielding and improved summer performance.

TUUKKA TIMOTHY (MEDIUM MATURITY)

Superior ratings on a percentage of leaf-to-stem ratio, Tuukka has the most desired trait of quick regrowth. It will provide season-long production of nutritious forage even in the second, third and fourth cuttings when the alfalfa growth is not so overwhelming. Tuukka's maturity is generally 2-3 days earlier than Climax.

Sorghum

SEEDING RATE 25-30 lbs. per acre

SORGHUM SUDANGRASS

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. **Warning: Sorghum may be subject to high Prussic Acid levels following frost, drought or stress.**

BMR SORGHUM SUDANGRASS


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.

Brassicas

SEEDING RATE

BARKANT TURNIP

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.

 BARENBRUG
4-5 lbs. per acre

TURNIP

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

HUNTER BRASSICA

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

WINFRED BRASSICA

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

FODDER RAPE

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

KALE

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

SS SUPREME SILOBUSTER™ FORAGE BLEND

SUCCESS STARTS WITH SILOBUSTER™

- Nurse crop for underseeding alfalfa / grass
- Alternative / emergency forage crop
- Proven outstanding performance
- 60 day harvest window
- High tonnage
- Fast establishment

Silobuster™ will provide a lot of high quality feed early in the year and allow an outstanding catch of underseeding as well.

**SS
SUPREME
SILOBUSTER™
FORAGE BLEND**

80 - 120 lbs. per acre

50 % Forage Peas
25 % Spring Triticale
25 % Barley
100 %



In the last few years, Silobuster™ is being used in a new way as an excellent green manure crop after fall planted cereals. Following harvest when the straw is spread or removed, the soil can be worked up and planted, or Silobuster™ can be no tilled right into the stubble. Some producers have added 6-8 pounds of clover. The resulting crop can be pastured, cut for haylage, or simply worked into the soil.

Companion Forage Crops	SEEDING RATE
<p>50/50 PEA/OAT MIX 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.</p>	80-120 lbs. per acre
<p>BLACK FORAGE PEAS High protein content with excellent digestibility and palatability. Best used in a cereal mix. If used as a cover crop, peas possess good nitrogen fixing abilities for soil conditioning.</p>	100 lbs. per acre
<p>OATS Quick establishment for weed suppression and erosion prevention. Can be utilized in fall for emergency feed.</p>	50-110 lbs. per acre
<p>TRITICALE - SPRING / WINTER A cool season cereal crop originating from a cross of wheat and rye. Taller and leafier than wheat or oats, and higher in protein resulting in greater forage yields with more feed value than other cereals. Winter triticale doubles as a cover crop planted in the fall while producing higher quality forage in the spring than fall rye.</p>	75-100 lbs. per acre
<p>FALL RYE 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.</p>	25-100 lbs. per acre



Annual Cover Crops	SEEDING RATE
BUCKWHEAT Annual cover crop and plowdown for green manure. Excellent pollinator attractant.	50 lbs. per acre
COW PEAS A warm season legume that requires a lot of heat to grow well for a cover crop. Inoculant is currently unavailable.	30-80 lbs. per acre
FABA BEANS 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
JAPANESE MILLET Excellent for gamebirds. Can tolerate moist soil conditions.	25 lbs. per acre
PEARL MILLET High yielding and has high protein. Relatively fast root development and excellent drought tolerance.	Drill: 10-15 lbs. per acre Broadcast: 15-20 lbs. per acre
MUSTARD – BROWN / ORIENTAL / WHITE Used as a green manure and bio-fumigant for the suppression of nematodes. Quick to germinate and can out compete weeds. Plant early spring to late summer. Work into the soil for optimum results.	7-15 lbs. per acre
AUSTRIAN WINTER PEAS Austrian Winter Peas are a quick establishing, cool season annual legume with good nitrogen-fixing capabilities.	100 lbs. per acre
YELLOW PEAS Yellow peas have a more open canopy than forage vining peas. Used for grain production.	90-100 lbs. per acre
HAIRY VETCH Mainly used as a cover crop, but can be used as a forage. Winter annual with most growth occurring in the spring.	20-40 lbs. per acre
COMMON VETCH An annual cool season legume similar to hairy vetch, widely used as a cover crop. Creates a great soil cover in a mixture.	20-40 lbs. per acre
PHACELIA 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
SUNFLOWER SEED A quick growing annual with a deep tap root. Benefits pollinators if planted early enough to flower.	Alone: 5-20 lbs. per acre In Mixes: 1 lb. per acre

Organic Seed

ALFALFA

TIMOTHY

DOUBLE CUT RED CLOVER

SINGLE CUT RED CLOVER

ALSIKE CLOVER

YELLOW BLOSSOM SWEET CLOVER

FORAGE PERENNIAL RYEGRASS

ORCHARDGRASS

WHITE CLOVER – OMRI COATED SEED

SORGHUM SUDANGRASS

OATS

FORAGE PEAS

FALL RYE

BUCKWHEAT

FESTULOLIUM

MEADOW FESCUE

TALL FESCUE

SOYBEANS

SUNFLOWERS

VETCH

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.



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 of 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.

PRIMARY BENEFITS

- Specially formulated Chemicals and Additives
- Protected Seed Germination Zone
- Increases Survivability 50% or More
- University and Field tested
- High Concentration of Rhizobia Bacteria
- Ensures Nodulation
- Improved Seedling Emergence
- More Uniform Stands
- Potential for Highest Yields



***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 www.speareseeds.ca for more information.



ECONOMY MIXTURES

MIXTURE	INGREDIENTS	SEEDING RATE	MIXTURE	INGREDIENTS	SEEDING RATE
ECONOMY HAY MIXTURE	50 % Timothy 40 % Alfalfa 10 % Double Cut Red Clover 100 %	18 lbs. per acre	80/20 ALFALFA & TIMOTHY MIXTURE	80 % Alfalfa 20 % Timothy 100 %	18 lbs. per acre
ECONOMY PASTURE MIXTURE	45 % Timothy 15 % Meadow Fescue 15 % Festulolium 10 % Coated Orchardgrass 10 % Smooth Bromegrass 5 % White Clover 100 %	20-25 lbs. per acre *Available with coarse seed separate	70/30 ALFALFA & TIMOTHY MIXTURE	70 % Alfalfa 30 % Timothy 100 %	18 lbs. per acre

SS Forage Supreme Grass Mixtures

	INGREDIENTS	SEEDING RATE
SS MIRACLE MIXTURE 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
SS MYSTIC MIXTURE 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 % BG-24T Perennial Ryegrass Blend 25 % Festulolium 100 %	25-30 lbs. per acre straight 4-8 lbs. per acre with 12-16 lbs. Alfalfa or Alfalfa/Timothy Mix



SS Forage Supreme Hay Mixtures	INGREDIENTS	SEEDING RATE
SS FORAGE KING BR MIXTURE The legendary branch rooted trait combined with a proven timothy for optimum yields under less than ideal soil conditions and variable drainage.	80 % Anchor Brand Alfalfa 20 % Tuukka Timothy 100 %	18-20 lbs. per acre
SS FORAGE KING MERIT MIXTURE A premium dairy hay mixture combining a first class multifoliate alfalfa with a proven timothy for peak production under optimum conditions.	80 % Merit Brand Alfalfa 20 % Tuukka Timothy 100 %	18-20 lbs. per acre
SS LONG TERM HAY MIXTURE A grass based hay mix with 25% alfalfa making it also suitable for pasture. Produces very dense stand of grasses early for hay as 1st cut with excellent regrowth for either another hay cut or excellent low bloat risk pasture. Excellent disease resistance and winter hardiness for long term rotation. If you require coarse seed separate, see section Combining Grass and Alfalfa Mixes to create your own mix by varying seeding rate.	25 % Anchor Brand Alfalfa 25 % Tuukka Timothy 10 % Festulolium 10 % HLR Orchardgrass 15 % STF-43 Tall Fescue Blend 15 % Bromegrass 100 %	20-22 lbs. per acre
SS SUPER HAY PASTURE MIXTURE A premium quality hay pasture mixture. Formulated with fine seeded species for easier planting. <ul style="list-style-type: none"> • Premium high yielding grass/alfalfa mixture. • Varieties chosen have performed well in OMAFRA trials. 	45 % Merit Brand Alfalfa 36 % Tuukka Timothy 7 % Festulolium 3 % Dynamite Double Cut Red Clover 7 % STF-43 Tall Fescue Blend 2 % Synergy Ladino Clover 100 %	18-20 lbs. per acre
SS TAR MIXTURE 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 % Dynamite Double Cut Red Clover 100 %	18 lbs. per acre

INCREASE GRASSES IN YOUR HAY BY COMBINING A GRASS MIX AND AN ALFALFA MIX

Example #1 Beef & Sheep Hay

17.5 lbs. / acre SS Forage King Merit Mixture (fine seed)
2.5 lbs. / acre SS Miracle Mixture (coarse seed)

Example #2 Horse Hay

10 lbs. / acre SS Forage King Merit Mixture (fine seed)
10 lbs. / acre SS Miracle Mixture (coarse seed)

Combined Mix:

70% Alfalfa
18% Timothy
6% Bromegrass
3% STF-43 Tall Fescue Blend
3% Festulolium

Combined Mix:

40% Alfalfa
10% Timothy
25% Bromegrass
12.5% STF-43 Tall Fescue Blend
12.5% Festulolium

Things to consider when planting high ratio grass mixtures:

- Increase seeding rate when adding coarse grass to alfalfa mixtures because coarse seeds have fewer seeds per lbs.
- Keep the alfalfa content to above 60% for an alfalfa stand which won't require nitrogen fertilization.
- Fertilize grass stands with Nitrogen between each cut to improve yield and quality.



SS Forage Supreme Pasture Mixtures	INGREDIENTS	SEEDING RATE
<p>SS FROST SEEDING PASTURE MIXTURE 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.</p>	<p>10 % Bruce Birdsfoot Trefoil 15 % Huia White Clover 15 % Double Cut Red Clover 20 % Orchardgrass 25 % Quartermaster Perennial Ryegrass Blend 15 % Sunrise Brand Timothy 100 %</p>	5-8 lbs. per acre
<p>SS HORSE PASTURE & PADDOCK MIXTURE A broad based grass mixture designed to produce fresh, tender forage throughout the grazing season for all types of horses.</p> <ul style="list-style-type: none"> Persistent pasture due to Forage Type Kentucky Bluegrass which is a sod forming grass that can withstand heavy grazing and hoof traffic. 	<p>15 % Quartermaster Perennial Ryegrass 15 % STF-43 Tall Fescue Blend 35 % Sunrise Brand Timothy 15 % Persist Orchardgrass 15 % Forage Type Kentucky Bluegrass 5 % Huia White Clover 100 %</p>	25 lbs. per acre
<p>SS LOWLAND PASTURE MIXTURE Specially designed for lower ground that will produce grass hay for livestock and productive pasture throughout the entire growing season.</p> <ul style="list-style-type: none"> Designed for heavier, wetter soil types where alfalfa may be difficult to establish. 	<p>35 % Tuukka Timothy 20 % Rustler Tall Fescue 15 % Festulolium 15 % Meadow Fescue 10 % Huia White Clover 5 % Double Cut Red Clover 100 %</p>	18-20 lbs. per acre
<p>SS PASTURELAND MIXTURE A quality pasture mixture that can be used for hay. All seed will go through fine grass seed attachment on drill.</p> <ul style="list-style-type: none"> Ideal for optimum palatability and digestibility. Sunken crown Survivor alfalfa to protect plants from intensive grazing. Add coarse grass mix if a higher grass content is desired. 	<p>20 % Survivor Alfalfa 25 % Merit Brand Alfalfa 35 % Tuukka Timothy 5 % Ladino Clover 5 % Bruce Birdsfoot Trefoil 10 % STF-43 Tall Fescue Blend 100 %</p>	18-20 lbs. per acre
<p>SS PERMANENT PASTURE MIXTURE 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.</p> <ul style="list-style-type: none"> Versatile pasture mixture suited for a variety of soil types and conditions. Coarse Seed Available Separate on Request 	<p>30 % HLR Orchardgrass 20 % STF-43 Tall Fescue Blend 20 % Quartermaster Perennial Ryegrass 25 % Tuukka Timothy 5 % Huia White Clover 100 %</p>	20 lbs. per acre
<p>SS SHEEP & GOAT PASTURE MIXTURE A versatile pasture mixture that provides grasses and clover maturing at differing times to always provide quality forage for sheep and goats.</p> <ul style="list-style-type: none"> Contains soft-leaf fescues and grasses making it extremely palatable. 	<p>20 % Climax Timothy 20 % STF-43 Tall Fescue Blend 20 % Quartermaster Perennial Ryegrass 10 % Fixation Balansa Clover 10 % HLR Orchardgrass 10 % Festulolium 8 % Forage Type Kentucky Bluegrass 2 % Creeping Red Fescue 100 %</p>	20 lbs. per acre

Specialty Mixtures	INGREDIENTS	SEEDING RATE
<p>GRASS WATERWAY MIXTURE 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 white clover that can survive in wetter locations.</p>	<p>40% Creeping Red Fescue 30% Tall Fescue 15% White Clover 15% Annual Ryegrass 100 %</p>	30-60 lbs. per acre
<p>NON-CROPLAND POLLINATOR MIX A very diverse mix that appeals to a range of pollinators with annual and perennial species. Plant heights range from 6" to 4'+. 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.</p>	<p>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</p>	20 lbs. per acre





HIGH QUALITY FOOD PLOTS

WILDLIFE BRASSICA BLEND

5 lb. pail Seeding rate: 5 lb. / acre

- Annual forage for deer
- Seed mid to late Summer, or plant in Spring for earlier grazing
- High in protein and carbohydrates
- Designed to feed in late fall

- 34% Purple Top Turnip
- 33% Kale
- 33% Dwarf Essex Rape

PERENNIAL GRAZING BLEND

12 lb. pail Seeding rate: 24 lb. / acre

- Perennial forage for deer
- Frost seed, late Spring/early Summer planting
- Grazing options all season long
- Fast regrowth

- 15% Alfalfa
- 10% Fixation Balansa Clover
- 10% Frosty Berseem Clover
- 5% Alsike Clover
- 5% Yellow Blossom Sweet Clover
- 10% Chicory
- 20% BG-24T Perennial Ryegrass Blend
- 20% Oats
- 5% Purple Top Turnip

ANNUAL WILD GAME AND DEER BLEND

25 lb. bag Seeding rate: 50 lb. / acre

- Seed late Spring/early Summer
- Ideal for wild game birds and deer
- Provides protection from predators

- 50% Oats
- 23% Yellow Peas
- 2% Purple Top Turnip
- 5% Frosty Berseem Clover
- 5% Crimson Clover
- 5% Peredovik Sunflowers
- 5% Japanese Millet
- 5% WGF Sorghum

For Best Results

Sow seeds into a weed-free seedbed. Seed to soil contact and good soil fertility can increase the rate of success. Seeding depth of 1/4 to 1/2 " is ideal.



HEALTHIER SOILS BEGIN WITH SEED

Cover crops have been a part of crop rotations for many years. Speare Seeds is committed to the adoption of cover crops wherever agricultural land exists. Our focus on extended research and development of cover crops continues to expand, allowing us to offer proven seeds to enhance your cover crop success and in turn, increase your soil's health for future generations!

TILLAGE RADISH



Breaks up soil compaction with its aggressive taproot, creating thick channels 30" or deeper. This nitrogen storage tank holds N and other nutrients over winter and releases them as needed by following cash crops.

LOWBOY ANNUAL RYEGRASS



A new innovative, and low growing annual ryegrass that focuses on canopy density rather than height. LowBoy plants form a tremendous root system that is both deep and wide. LowBoy is also endophyte-free and safe for all livestock.

FIXATION BALANSA CLOVER



Balanza Clover is a small seeded annual legume that is quick to establish when planted in Spring, offers excellent forage production, and is well-adapted to a wide range of soil types.

SUPER SUGAR SORGHUM SUDANGRASS

Super Sugar is a high yielding conventional forage grass best used for hay, grazing, greenchop, or cover crop. Thin sweet stems make it highly palatable with stem sugar ranging from 12-16%. Planting higher populations will result in finer stems, finer stems dry quicker producing higher quality hay. The improved drought tolerant genetics allow Super Sugar to yield even under dry conditions. Recovery following a drought is excellent.

CONTROL OILSEED RADISH



Multiple nematode control reduces both sugarbeet cyst nematode (*Heterodera schachtii*) and Columbia root knot nematode (*Meloidogyne chitwoodi*) populations

- Acts as a general bio-fumigant when incorporated into the soil
- Rapid early growth
- Captures and recycles nutrients
- Late maturity
- Improves soil organic matter and aeration
- Excellent standability

GREEN SPIRIT ITALIAN RYEGRASS



A biennial ryegrass that can provide high quality forage for silage or grazing. When planted in the spring it will not produce seed heads until 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.

AUSTRIAN WINTER PEAS 100 lbs. per acre

BLACK FORAGE PEAS 100 lbs. per acre

BROWN MUSTARD 7-10 lbs. per acre

BUCKWHEAT 50 lbs. per acre

CHICORY In Mixes: 3-6 lbs. per acre

COW PEAS 40-80 lbs. per acre

CRIMSON CLOVER

Alone: 12-18 lbs. per acre In Mixes: 2-6 lbs. per acre

FABA BEANS 180-200 lbs. per acre

FALL RYE 25-100 lbs. per acre

GROUNDBREAKER RADISH 2-10 lbs. per acre

HAIRY VETCH 20-40 lbs. per acre

JAPANESE MILLET 25 lbs. per acre

OATS 50-110 lbs. per acre

PEARL MILLET

Drill: 10-15 lbs. per acre Broadcast: 15-20 lbs. per acre

PHACELIA 8-15 lbs. per acre

SORGHUM SUDANGRASS 25-35 lbs. per acre

SPRING/WINTER TRITICALE 75-100 lbs. per acre

SUNFLOWER SEED

Alone: 5-10 lbs. per acre In Mixes: 1 lb. per acre

SUNN HEMP 9-15 lbs. per acre

TURNIP 4-5 lbs. per acre

WHITE/YELLOW MUSTARD 7-10 lbs. per acre

YELLOW PEAS 90-100 lbs. per acre

50/50 PEA/OAT MIX 80-120 lbs. per acre



SS SUPREME SOIL COVER MIX

DRILLED 25 LB. / ACRE BROADCAST 30 LB. / ACRE

An economical cover crop blend that will establish quickly and will winter kill for easy termination. Works well when used in conjunction with manure, bio solids or other high fertility situations.

Contains: Oats and Tillage Radish.

SS SUPREME N-BOOST MIX

DRILLED 20-25 LB. / ACRE BROADCAST 25-30 LB. / ACRE

An all-purpose mix that will work well planted after cereal harvest. Establishes quickly, works well to scavenge nutrients and will also provide some nitrogen credits.

Contains: Oats, Tillage Radish and Crimson Clover.

SS SUPREME MULTI-SPECIES MIX

DRILLED 20-25 LB. / ACRE BROADCAST 25-30 LB. / ACRE

A diverse mix that will provide flowers to attract pollinators if planted early. Keep seeding rate low to give phacelia and crimson clover a chance to compete and flower. Works well after cereal harvest for fall cover.

Contains: Oats, Forage Peas, Crimson Clover, Tillage Radish, Sorghum Sudangrass, Sunflowers, and Phacelia.

SS SUPREME SOIL SAVER MIX

50-60 LB. / ACRE

Hairy vetch is not always winter hardy in southern Ontario but the addition of fall rye can help. The more growth in the spring, the more N produced by the hairy vetch for the following crop. Should be planted by early September to allow the hairy vetch to establish before winter.

Contains: Fall Rye and Hairy Vetch.

SS SUPREME FALL GRAZE MIX

DRILLED 40 LB. / ACRE

A diverse mix that will provide fall grazing, ideally plant in midsummer and fertilize to maximize potential growth. Have a plan to terminate the Italian ryegrass to prevent unwanted seed production if allowed to over winter.

Contains: Oats, Enhancer Italian Ryegrass, Winfred Brassica, Frosty Berseem Clover and Pearl Millet.

SS SUPREME CORN INTERSEED MIX

DRILLED 8-12 LB. / ACRE BROADCAST 12-15 LB. / ACRE

Plant at V4-V8 corn leaf stage, lower seeding rates can work if the seed is actually planted into the soil. Keep in mind herbicide restrictions and have a plan to terminate the annual ryegrass.

The LowBoy feature of staying short facilitates no-till planting into the residue the following spring.

Contains: Lowboy Annual Ryegrass and Crimson Clover.

Custom Mixing Available

Don't see a mixture that appeals to your needs? No mix is too big or too small. Our Forage and Cover Crop specialists will help you 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.



SPEARE SEEDS



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