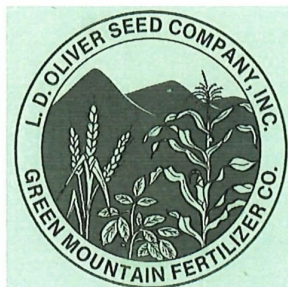


L.D. Oliver Seed Co., Inc. ~ Wholesale Catalog



1971 ~ 2021

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Years of Quality



L. D. Oliver Seed Co., Inc.—26 Sunset Avenue (P.O. Box 156) , Milton, VT 05468

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ORGANIC PRODUCTS

Oliver Seed Company carries a variety of seed, fertilizer and soil amendments approved for use by Organic Farmers.

(Omri listed or approved by VOF- NOFA VT please check with your certifier for verification.)

In addition to our Catamount and Green Mountain Fertilizer organic products, we carry; North Country Organics, Vermont Natural Ag, Vermont Organics, Albert Lea Seed, Coast of Maine, Fafard, NutriAg, Lambert and others.

SEED:

Organic Straight Seed and Grain

(Sourced mainly from Albert Lea Seed)

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CATAMOUNT SEED MIXES:

Organic Pasture Mix

ASK

TA Organic Forage Mix

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TAR Organic Forage Mix

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TARA Organic Forage Mix

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SulPoMag (K-Mag)

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Vermiculite

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Vermont Natural Ag – Moo Products

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Products not having a separate catalog page will be identified with an “*” throughout the catalog.

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Redmond #10 Trace Mineral Salt (OMRI certified) is available upon request.

Organic Growers’ Potting Media, Seed Starter and Peat Moss Replacement by VT Organics Reclamation are available. (Bay State Certified)

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SECTION I - SEED

L.D. Oliver Seed Co. Inc. has a complete assortment of turf and forage products. We select top quality varieties which have proven to grow well in the Northeast region. Our Catamount Seed mixes incorporate the best performing varieties to meet our customers'

high expectations. In addition to our mixes, we maintain a vast assortment of top-quality straight seed, including the newest varieties. (Kentucky Bluegrass, Perennial Ryegrass, Fine Fescue, Tall Fescue, etc.).

Information on straight seed varieties is available from our seed suppliers at the following links:

Albert Lea Seed www.alseed.com



Ampac Seed Company www.ampacseed.com

Bailey Seed www.baileyseed.com



Brett Young www.brettyoung.ca



Columbia Seeds: www.columbiaseeds.com



Grassland Oregon: www.grasslandoregon.com



Mountain View: www.mtviewseeds.com



The following pages describe our stock seed mixes. We can package seed in bag sizes from 3 lbs. to 50 lbs.

Additionally, we can custom blend mixes to meet individual requests. Minimums do apply. Please feel free to contact us for a quote by phone or e-mail.

CATAMOUNT TURF SEED MIXES

The following mixes are the stock turf mixes at Oliver Seed Co.

ATHLETIC MIX - Fine textured mix with good recuperative potential and wear tolerance. Seed at 4 lbs. per 1000 sq. ft.

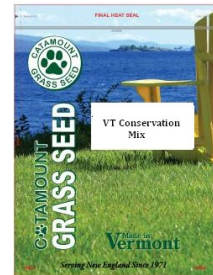
FORMULA: 40% 98/85 KENTUCKY BLUEGRASS
 20% NAMED KENTUCKY BLUEGRASS
 20% NAMED KENTUCKY BLUEGRASS
 20% TRIBLEND PERENNIAL RYEGRASS



Available sizes: 50 lb. Item #ATHL050
 25 lb. Item #ATHL025

VT. CONSERVATION MIX - Fine to coarse textured mix of grasses designed to suit a wide range of soil types. Seed at 5 lbs. per 1000 sq. ft.

FORMULA: 35% CREEPING RED FESCUE
 25% TURF TYPE TALL FESCUE
 15% ANNUAL RYEGRASS
 12% PERENNIAL RYEGRASS
 10% KENTUCKY BLUEGRASS
 3% WHITE CLOVER



Available sizes: 50 lb. Item #CONS050
 25 lb. Item #CONS025
 7 lb. Item #CONS007
 3 lb. Item #CONS003

CONTRACTORS MIX - Economical mix of medium to coarse bladed grasses. Seed at 5 lbs. per 1000 sq. ft.

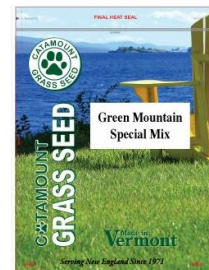
FORMULA: 30% CREEPING RED FESCUE
 30% TURF TYPE TALL FESCUE
 30% ANNUAL RYEGRASS
 10% PERENNIAL RYEGRASS



Available sizes: 50 lb. Item #CONT050
 25 lb. Item #CONT025

GREEN MOUNTAIN SPECIAL MIX - 100% perennial grasses with fine to medium texture. Seed at 4 lbs. per 1000 sq. ft.

FORMULA: 40% CREEPING RED FESCUE
 30% PERENNIAL RYEGRASS
 30% KENTUCKY BLUEGRASS



Available sizes: 50 lb. Item #GMS050
 25 lb. Item #GMS025
 7 lb. Item #GMS007
 3 lb. Item #GMS003-----

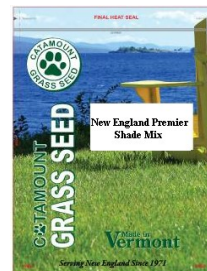


CATAMOUNT TURF SEED MIXES (Cont.)

NEW ENGLAND PREMIER SUN & SUN MIX - A mix of highly rated varieties from the NTEP trials. Great for sun or shade. Deep roots, drought tolerant, endophyte enhanced. Seed at 4 lbs. per 1000 sq. ft.

FORMULA: 45% NAMED RED FESCUE
 25% CHEWINGS FESCUE
 20% PERENNIAL RYEGRASS
 10% HARD FESCUE

Available sizes: 50 lb. Item #NE#1050
 25 lb. Item #NE#1025
 7 lb. Item #NE#1007
 3 lb. Item #NE#1003



PLAYGROUND MIX - Durable mix of medium bladed perennial turf grasses. Seed at 5 lbs. per 1000 sq. ft.

FORMULA: 35% CREEPING RED FESCUE
 25% PERENNIAL RYEGRASS
 20% CHEWINGS FESCUE
 10% KENTUCKY BLUEGRASS
 10% ANNUAL RYEGRASS

Available sizes: 50 lb. Item #PLAY050
 25 lb. Item #PLAY025



SANDY SOIL MIX - Designed for problem sandy soils. Fine to medium texture grasses with deep root systems. Seed at 4-5 lbs. per 1000 sq. ft.

FORMULA: 35% NAMED RED FESCUE
 30% TURF TYPE TALL FESCUE
 20% PERENNIAL RYEGRASS
 10% ANNUAL RYEGRASS
 5% DUTCH WHITE CLOVER

Available sizes: 50 lb. Item #SAND050
 25 lb. Item #SAND025
 7 lb. Item #SAND007
 3 lb. Item #SAND003



SHORTY MIX - Slower germination, but good shade and drought tolerant varieties. Seed at 3 to 4 lbs. per 1000 sq. ft.

FORMULA: 40% HARD FESCUE
 30% PERENNIAL RYEGRASS
 30% NAMED KENTUCKY BLUEGRASS

Available sizes: 50 lb. Item #SHOR050
 25 lb. Item #SHOR025



CATAMOUNT SPECIALTY SEED MIXES

BANK MIX - A fast germinating, coarse-seeded mix well suited for sites with minimum preparation. As its name implies, for use on banks and other high erosion sites. Seed at 112 lbs. per acre.

FORMULA: 87% WINTER RYE
 5% CREEPING RED FESCUE
 4% PERENNIAL RYEGRASS
 4% MEDIUM RED CLOVER

Available size: 50 lb.

Item #BANK050

HORSE LAWN - Want to let your horses graze on your lawn? Use this endophyte-free lawn mix. Seed at 5-6# per 1000 sq. ft.

FORMULA: 40% DUO FESTULOLIUM
 25% CREEPING RED FESCUE
 20% KENTUCKY BLUEGRASS
 10% FEAST II ANNUAL-TET RYEGRASS
 5% HIGHLAND BENTGRASS



Available sizes: 50 lb.
 25 lb.

Item #HORSE050
Item #HORSE025

NEW HAMPSHIRE SLOPE 44 - Provides quick cover and dense sod for establishing slopes and controlling erosion. Will tolerate acidic soils with medium fertility, and prefers well drained conditions. Not recommended for grazing or forage. Seed at 60 lbs. per acre.

FORMULA: 43% CREEPING RED FESCUE
 33% PERENNIAL RYEGRASS
 8% REDTOP
 8% ALSIKE CLOVER
 8% BIRDSFOOT TREFOIL

Available size: 50 lb.

Item #NHSL44050

FAST ESTABLISHMENT - A quick germinating mix which establishes rapidly. Seed at 5 lbs. per 1000 sq. ft.

FORMULA: 25% NAMED PERENNIAL RYEGRASS
 25% NAMED CREEPING RED FESCUE
 25% NAMED PERENNIAL RYEGRASS
 15% MANED KENTUCKY BLUEGRASS
 10% ANNUAL RYEGRASS



Available sizes: 50 lb.
 25 lb.

Item #FAST050
Item #FAST025

STATE OF VERMONT CERTIFIED MIXES - available in 50 lb. bags:

State Conservation Mix #1
VT AOT Low Grow Mix
VT AOT Rural Conservation Mix
VT AOT Urban Conservation Mix

Item #STCON1050
Item #VTAOTLG050
Item #VTAOTRU050
Item #VTAOTUR050



Please call prior to pick up for these mixes.

COOL SEASON TURF GRASSES							
VARIETY	DAYS TO GERM	SEEDING RATE/ 1000SQFT	PERSISTENCE	TEXTURE	SHADE TOLERANT	TRAFFIC TOLERANT	COLD TOLERANT
ANNUAL RYEGRASS	5	8	1 YEAR	COARSE	POOR	FAIR	POOR
PERENNIAL RYEGRASS	8	8	3-5 YEARS	COARSE	FAIR	FAIR	MEDIUM
NAMED PERENNIAL RYEGRASS	5-6	5	3-5 YEARS	FINE	GOOD	EXCELLENT	MEDIUM
CREEPING RED FESCUE	14	4	5 YEARS +	FINE	GOOD	GOOD	EXCELLENT
NAMED RED FESCUE	10	4	5 YEARS +	FINE TO VERY FINE	GOOD TO EXCELLENT	GOOD TO EXCELLENT	EXCELLENT
HARD FESCUE	14	4	5 YEARS +	VERY FINE	EXCELLENT	POOR	EXCELLENT
NAMED HARD FESCUE	10	4	5 YEARS +	VERY FINE	EXCELLENT	FAIR	EXCELLENT
CHEWINGS FESCUE	14	4	5 YEARS +	FINE	EXCELLENT	GOOD	EXCELLENT
NAMED CHEWINGS FESCUE	10	4	5 YEARS +	FINE	EXCELLENT	GOOD TO EXCELLENT	EXCELLENT
KENTUCKY BLUEGRASS	28	3	5 YEARS +	FINE	POOR	GOOD	EXCELLENT
NAMED KY BLUEGRASS	10-21	3	5 YEARS +	FINE TO VERY FINE	GOOD TO VERY GOOD	GOOD TO VERY GOOD	EXCELLENT
TALL FESCUE	14	8	5 YEARS +	COARSE	GOOD	EXCELLENT	POOR
NAMED TALL FESCUE	8-10	8	5 YEARS +	FINE	GOOD TO VERY GOOD	EXCELLENT	GOOD

ESTABLISHING A NEW LAWN - 3 KEY STEPS:

STEP 1: PREPARATION -The area should be free of rocks and debris, and the soil tilled to create a seed bed. This will give you the best chance for proper seed to soil contact.

STEP 2: APPLICATION -Square footage is key to knowing how much seed and fertilizer you are going to need. (200 lbs. seed per acre and 400-450 lbs. fertilizer per acre) Spread the seed, making sure to get uniform coverage, and apply the fertilizer in the same manner. Drag both in (seed to soil contact), and cover with straw. Remember not to go too heavy with the straw to insure that enough sunlight will get through. Water the seed and fertilizer.

STEP 3: AFTER CARE -Water your new seeding twice per day, morning and evening. Give the area a thorough amount, but not so much that you have puddles forming. Once establishment takes place (3-4 weeks), begin mowing

TURF GRASS

BENTGRASS

Used primarily on golf courses, it requires high maintenance. With proper management, bentgrass can be used for permanent turf in cool turf grass zones. Can be cut very short! Quantities are limited

CREEPING BENTGRASS

(*Agrostis palustris*)

Preferred for golf greens and tees. Repairs itself quickly, and can be cut at 1/8 inch or less. Grows areas with cool moist summers, but will persist in drier weather if ample water is provided.



best in
hotter

Varieties: *L93*

COLONIAL BENTGRASS

(*Agrostis tenuis*)

Used on golf fairways and tees, in lawn seed mixtures, and in erosion control mixtures. Fine-textured, upright, dense turf under close mowing. Well adapted to cool climates - long lived, low temperature hardiness.

Variety: *Highland*

REDTOP

(*Agrostis alba* L.)

Coarse textured stemmy turf with low shoot density. Short rhizomes with medium establishment. Behaves either as long-lived or short-lived perennial depending on culture, soil, and environmental conditions. Adapted primarily to cool humid climates. Does not tolerate shade or high temperatures. Can be used on a wide range of soil types and moisture conditions. It is often utilized on wet, imperfectly drained, fine-textured, and acidic soils of low fertility. Commonly used in seed mixes for roadside, ditches, and erosion control. Does not persist under close frequent mowing. Mow at 1.5 inch to 2 inch.

Varieties: *Reton, Common*

BLUEGRASS

KENTUCKY BLUEGRASS

(*Poa pratensis* L.)

Known for its dark rich color, fine texture, and cold and stress tolerance; Kentucky Bluegrass is ideal for medium to high maintenance applications. Varieties: Blueberry, Bewitched, Brooklawn, Merit, Skye, Tri Bluegrass Blend

KENTUCKY BLUEGRASS CLASSIFICATION

TYPE	DESCRIPTION	VARIETIES
Compact	Low compact growth, high quality turf, excellent resistance to leaf spot, and long winter dormancy.	Excursion, Moonshadow, Mercury
Compact America	Characteristics of compact type, very dark green color, and susceptible to powdery mildew.	Blue Velvet, Granite, Prosperity
Compact Midnight	Characteristics of compact type, finer leaf, higher density, moderate winter dormancy, resistant to powdery mildew, and good in shade.	America, Granite, Bluenote, Armada
Aggressive	Aggressive lateral growth, very wear tolerant, and quickly knit sod and repair.	Blueberry
Shamrock	Moderate winter color, good turf quality and sod strength.	Wild Horse, Brooklawn
Other	Exhibits traits that are intermediate between groups. Additional study required to classify.	Washington, Blue Sapphire
Common	Good summer stress tolerance, may go dormant during summer, and poor winter color and performance.	Blue Angel

ROUGH BLUEGRASS (Poa trivialis)

A perennial bluegrass resembling Kentucky Bluegrass with no creeping root stalks. Prefers shady, wet lawn areas.

Varieties: *Race Horse, Sabre*

FINE FESCUES

Chewings, creeping red, and hard fescue seeds mix well with Kentucky Bluegrass and Perennial Ryegrass. They are an important part of any fine turf mixture. Fine fescues are shade tolerant and exhibit good drought tolerance. Fine fescues are also ideal for use as a cover crop under grapes and orchards. Newer varieties have endophytes.

CHEWINGS (Festuca rubra var. commutata)

Performs well in acidic infertile soils with high sand content. New varieties have superior performance and darker color than older varieties. Prefers cutting height of 1 to 2 inches. Our varieties have endophytes.

Varieties: *Radar, Shadow II*

CREEPING RED FESCUE (Festuca rubra L.)

Good establishment rate – faster than Kentucky Bluegrass, but slower than ryegrass. Long-lived perennial for cool, humid region. Good shade, heat, and cold tolerance. Our varieties show tolerance to a wide range of unfavorable conditions, contain endophytes, and have a darker color. Recommended cutting height of 1 to 2.5 inches.

Varieties: *Navigator II, Jasper II, Fortify, Kent*

TURF GRASS(Cont.)

HARD FESCUE

(Festuca ovina var. duriuscula)

Slow vertical growth, may bunch in low fertility situations. Has a deep extensive root system. Mow at 1" or so.

Varieties: *Gladiator, Henry*

SHEEP FESCUE

(Festuca ovina L.)

Root depth affected by mowing height. Tolerates acidic, coarse-textured soils of low fertility. Prefers cutting height of more than ½ inch.

Varieties: *Azay, Blue Ray*

TALL FESCUE

(Festuca arundinacea schreb)

Turf type tall fescues have made rapid improvements over the last decade. New proprietary varieties have finer leaves, a darker green genetic color, and a reduced growing height. Tall fescues are known for wear, shade, and drought tolerance. All newer varieties have endophytes.

Varieties: *Birmingham, Brute, Marrakech, Showdown*

RYEGRASS

Ryegrasses germinate and establish quickly. Mixes well with bluegrass and fine fescues. Improved perennial turf types have a dark green, fine textured leaf, although shoot growth is slower than common varieties. Preferred cutting height of 1.5 to 2 inches.

PERENNIAL RYEGRASS

(Lolium perenne)

Best adapted to cool moist regions, suffers the most of all turf grasses from winterkill. Good adaptation to partial shading and wear tolerance. Newer perennial ryegrasses have some endophytes. Endophytes **should not**

be used where horses pasture.

Varieties: *Triumphant Tri rye blend, Blackstone, Green Supreme, Hattrick*

ANNUAL RYEGRASS

(Lolium multiflorum)

Grown for pasture, turf, and erosion control, annual ryegrass is an economical ground cover. Use as a nurse grass in lawn maintenance areas while the permanent turf is establishing. Fine to medium texture, light green, and very fast establishment rate. Has extremely low tolerance for cold temperatures, with little tolerance for moisture or heat stress.

CLOVER

WHITE CLOVER

(Trifolium repens L.)

A low growing perennial legume best adapted to moist, fine-textured soils and cool humid climates. Spreads by means of stolons with shallow rooting.

Varieties: *Dutch, Huia*

PASTURE SEED MIXES

PASTURE MIX - Designed for horses. Provides good feeding value. Seed at 25 lbs. per acre. (50 lbs. if broadcasted). Overseed at 15 lbs. per acre

FORMULA:

- 30% TEKAPO ORCHARDGRASS
- 30% DUO FESTULOLIUM
- 20% BRONSON II TALL FESCUE (NO ENDOS)
- 10% ALBION TETRAPLOID PER RYE
- 5% STARFIRE RED CLOVER
- 5% STAMINA WHITE CLOVER



Available sizes: 50 lb. Item #PAST050 (PASTORG050*)
 25 lb. Item #PAST025

SHOW HORSE MIX - For hay or pasture. Seed at 35 lbs. per acre. Overseed at 15-20 lbs. per acre (50 lbs. if broadcasted)

FORMULA:

- 40% TEKAPO ORCHARDGRASS
- 30% DUO FESTULOLIUM
- 20% ALBION TETRAPLOID PERENNIAL RYEGRASS
- 5% TUUKKA TIMOTHY
- 5% KENTUCKY BLUEGRASS

Available sizes: 50 lb. Item #PPSHOW050
 25 lb. Item #PPSHOW025

Horse Pasture North Mix – Designed for hay or pasture. Over seeds well into existing stands to provide ample hay production or better foot bed in horse paddocks. New seeding at 25 lbs. per acre. Overseed at 15 lbs. per acre. If broadcast seeding method is use increase rate by 50%.

FORMULA:

- 60% 98/85 KENTUCKY BLUEGRASS
- 35% PROMESSE TIMOTHY
- 5% LADINO WHITE CLOVER.

Available sizes: 50 lbs. Item # HOPA050
 25 lbs. Item # HOPA025

ORGANIC PASTURE MIX- All-purpose mix deigned for minimum inputs in an organic setting. Seed at 25 lbs. per acre. If broadcasted increase rate by 50%. Overseed at 10-15 lbs. per acre.

FORMULA:

- 25% ORGANIC CLIMAX TIMOTHY
- 25% ORGANIC FORAGE PERENNIAL RYEGRASS
- 25% ORGANIC ALSIKE CLOVER
- 25% ORGANIC MANITOBA RED CLOVER

Available sizes: 50 lbs. Item # PASTORG050

CATAMOUNT FORAGE SEED MIXES

T-A FORAGE MIX - For hay, silage, or green chop. Will tolerate somewhat poorly drained soils, and acidic soils. Seed at 15 lbs. per acre.

FORMULA: 80% TIMOTHY
20% ALSIKE CLOVER (WHITE CLOVER)**

Available sizes: 50 lb. Item #TAA050
25 lb. Item #TAA025
50 lb. Item #TAW050
50 lb. Item #TAAORG050*

T-A-R/T-W-R FORAGE MIX - For hay, silage, or green chop. Will tolerate somewhat poorly drained soils and acid soils. Includes medium red clover (an early bloomer), which encourages availability of two crops for haying. Seed at 15 lbs. per acre.

FORMULA: 50% TIMOTHY
30% MEDIUM RED CLOVER
20% ALSIKE CLOVER (WHITE CLOVER)**

Available sizes: 50 lb. Item #TAR050
25 lb. Item #TAR025
50 lb. Item #TARORG050*
50 lb. Item #TWR050**
25 lb. Item #TWR025**



T-A-R-A FORAGE MIX - For hay, silage, or green chop. Alfalfa is not recommended for poorly drained areas, but is highly drought tolerant. Alfalfa also reduces risk of bloat. Seed at 15 lbs. per acre.

FORMULA: 40% ALFALFA
30% TIMOTHY
20% MEDIUM RED CLOVER
10% ALSIKE CLOVER

Available sizes: 50 lb. Item #TARA050
25 lb. Item #TARA025
50 lb. Item #TARAORG050*



*Mixtures using organic seeds.

**Mixtures using white field clover.

ADDITIONAL FORMULATIONS

We buy seed from multiple suppliers and specialize in custom seed mixing, and can package in any size you require. We offer quick and reliable service. Please call for quotations!

CATAMOUNT FOOD PLOT MIXES

CATAMOUNT WHITE TAIL DEER MIX - Designed for deer. Provides for good feeding value. Tolerates a wide range of soil types. Seed at 12 lbs. per acre. Plant in spring or fall.

FORMULA:

- 30% KOPU II WHITE CLOVER
- 30% WHITE CLOVER
- 20% VERNAL ALFALFA
- 10% DUO FESTULOLIUM
- 5% STARFIRE II RED CLOVER
- 5% APPIN TURNIP



Available sizes: 50 lb.	Item #CATWTDEER50
25 lb.	Item #CATWTDEER25
10 lb.	Item #CATWTDEER10
5 lb.	Item #CATWTDEER05

CATAMOUNT BRASSICA MIX - Great harvest plots for late season. All annual mix with high protein. Contains turnips, rape, and brassica. Plant in the fall. Seed at 5 lbs. per acre.

Available sizes: 30 lb.	Item #WPBRAS030
15 lb.	Item #WPBRAS15
5 lb.	Item #WPBRAS05
2½ lb.	Item #WPBRAS02.5

CATAMOUNT CHICORY/CLOVER MIX - A year-round drought tolerant mix with clovers and chicory. Plant in spring or fall. Seed at 12# per acre.

Available sizes: 12 lb.	Item #WPCHIC12
6 lb.	Item #WPCHIC06
3 lb.	Item #WPCHIC03



CATAMOUNT GRAZING MIX - An awesome perennial legume mix developed for poor soil conditions. Contains clover and chicory. Plant in spring or fall. Seed at 12 lbs. per acre.

Available sizes: 12 lb.	Item #WPGRAZ12
6 lb.	Item #WPGRAZ06
3 lb.	Item #WPGRAZ03

CATAMOUNT ULTIMATE PLUS MIX - A alfalfa mix developed for deep soils, good fertility and proper pH. Contains clovers, alfalfa, and chicory. Plant in spring or fall. Seed at 12 lbs. per acre.

Available sizes: 12 lb.	Item #WPULTI12
6 lb.	Item #WPULTI06
3 lb.	Item #WPULTI03

CATAMOUNT SWEET SPOT - Northern formula high sugar grass mix for irresistible food plots. Contains high sugar grass, Ladino white clover, medium red clover, purple top chicory. Seed at 25 lbs. per ½ acre.

Available size: 25 lb.	Item #CATSWSPOT025
------------------------	--------------------



turnip, and

FORAGE GRASS

ALFALFA

Herbaceous perennial legume that is highly drought tolerant. Improved varieties provide increased disease resistance, winter hardiness, and yields. Provides high-quality pasture for all classes of livestock. Prefers moderate drain soils.

Varieties: *Organic Viking 340M, MVS 4220Q, Brevant 4A425, Vernal*



BROMEGRASS/MEADOW BROME

A leafy sod-forming perennial which spreads underground by rhizomes. It grows best in moist, well drained, fine textured soils.

Varieties: *McBeth Meadow Brome*

BIRDSFOOT TREFOIL

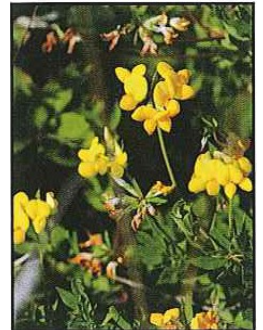
A forage legume that grows to a height of 1-2 feet. Bright yellow flowers bloom in May through July. Grows in medium fertility, slightly acid soils.

Varieties: *Leo*

WHITE FIELD CLOVER

Winter hardy, perennial, cool season legume that grows 2-4 feet tall. Will tolerate wet, flooding, acid soils. Use for hay and pasture mixes.

Varieties: *Alsike, Ladino, Stamina, Berseem, Fixation Balansa*



REED CANARY GRASS

Reed Canary grass is a long-lived clumpy perennial with course rhizomes. Grows best under cool moist conditions.

Variety: *Rivsl*



DUO FESTULOLIUM

Duo Festulolium is like ryegrass, but better! It combines the quick establishment, high feed value, production, and palatability of perennial tetraploid ryegrass with the extra persistence and summer productivity of meadow fescue. Duo has a high sugar content that is easily digestible, allowing animals to gain a high-energy ratio for milk/meat conversion.

MEADOW FESCUE

Preval meadow fescue (*Festuca pratensis* Huds) was developed from ecotypes from Switzerland and France. Preval combines good forage yield with improved resistance to diseases. Preval exhibits good winter hardiness and summer production. **Preval** will produce long, wide leaves making it an excellent choice for haying or pasture.

FORAGE GRASS (Cont.)

RED CLOVER

Fertile well drained soils of high moisture-holding capacity are best for growing red clover. The inclusion of grass in clover pastures is desirable to control soil erosion, and cattle are less likely to bloat on mixtures.

MAMMOTH RED CLOVER

Late flowering or single-cut type usually produces one crop.

Variety: *Altaswede*

ARLINGTON RED CLOVER

Has high resistance to northern anthracnose and powdery mildew. Early flowering variety that compliments alfalfa.

Variety: *Cardinal*

MEDIUM RED CLOVER

An early type which produces two to three hay crops per year.

Varieties: *Medium, Starfire II*



SWEET CLOVER

It does not tolerate acid soils. Flowers are yellow.

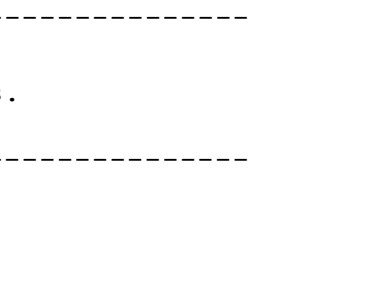
Variety: *Yellow Blossom*



ORCHARDGRASS

Grows in clumps and is shade and drought tolerant.

Varieties: *Potomac, Tekapo, Latar, Rushmore*



TIMOTHY

A bunchgrass which prefers wet to moderately drained soils.

Varieties: *Climax, Uncert Climax, Tuukka, Prommese*

KENTUCKY BLUEGRASS

Long-lived, highly palatable pasture grass.

Varieties: *Troy, Wild Horse*

ITALIAN RYEGRASS

Establishes quickly and produces high top quality yields.

Varieties: *Feast II, Tetelia*



TETRAPLOID RYEGRASS

It has good palatability, high crude protein content, rapid re-growth, good drought tolerance, as well as good persistence.

Varieties: *Tetrasweet, Oro Verde*

TALL FESCUE

Breeding has increased palatability, adaptability, and resistance to major diseases.

No Endophyte Varieties: *Fawn, Rustler, Goliath*

FORAGE GRASSES

CROP	LB /AC	GERM*	USES	PLANT	SOIL TYPE	NOTES
ALFALFA	16-20	7 DAYS	HAY, ALL PURPOSE	SPRING OR AUGUST	ALL TYPES DRAINED	INOCULANTS OR COATED
CLOVERS						INOCULANTS
ALSIKE	2-10	7 DAYS	HAY	SPR, FALL	WET & ACID	
LADINO	1-7	7 DAYS	HAY, PASTURE	SPR, FALL	MOIST	SOME COATED
MED RED	6-12	7 DAYS	HAY, PASTURE	SPR, FALL	WET & ACID	SOME COATED
MAM RED	5-12	7 DAYS	COVER, PAST.	SPRING	WET & ACID	
SWEET	2-12	7 DAYS	HAY, COVER	SPRING	ALL	
BIRDSFOOT	4-10	12 DAYS	PASTURE	SPRING	WET & ACID	INOCULANTS
CROWNVETCH	5-15	10 DAYS	EROSION CONT	SPRING	WELL DRAIN	INOCULANTS
BROMEGRASS	7-20	14 DAYS	HAY, PASTURE	SPR/AUG	ALL	
ORCHARD	4-12	10 DAYS	HAY, PASTURE	SPRING	ALL	SOME COATED
REED CANARY	5-12	21 DAYS	HAY, PASTURE	SPR/AUG	ALL	
TIMOTHY	2-12	10 DAYS	HAY, PASTURE	SPR/FALL	ALL	
FESCUES						
RED	15-50	14 DAYS	PASTURE	SPR/FALL	ALL	
SHEEP	15-30	14 DAYS	PASTURE	SPR/FALL	ALL	
TALL	6-30	14 DAYS	HAY, PASTURE	SPR/FALL	ALL	DROUGHT TOL
RYEGRASS						
ANNUAL	30-50	5 DAYS	COVER CROP	ALL EARLY	ALL	
PERENNIAL	30-90	6 DAYS	COVER, PAST.	SPRING	ALL	
ITALIAN	35-45	5 DAYS	COVER, PAST.	OR	ALL	
WINTER	112	5 DAYS	COVER CROP	FALL	ALL	
FESTULOLIUM	25-45	8 DAYS	PASTURE	SPR/FALL	ALL	
KYBLUEGRASS	20-35	10 DAYS	PASTURE	SPR/FALL	ALL	
BARLEY	100	7 DAYS	COVER CROP	SPR/FALL	ALL	
OATS	64-96	7 DAYS	COVER CROP	SPR/AUG	HEAVY/MED	
WHEAT	120	10 DAYS	COVER CROP	FALL	ALL	
SOYBEAN	50-80	14 DAYS	PASTURE	SPRING	DRAINED	INOCULANTS
SORGHUM	15-40	10 DAYS	HAY, PASTURE	SPRING	DRAINED	
FIELD PEA	60-90	6 DAYS	COVER CROP	SPR/FALL	ALL	
BUCKWHEAT	40-60	10 DAYS	COVER CROP	SPR/AUG	ALL	
CHICORY	6-8	7+ DAYS	PASTURE, FOOD PLOT	SPR, LATE SUMMER	WELL- DRAINED	SEED INTO FIRM BED
JAP MILLET	20-40	10 DAYS	HAY	SPRING	ALL	
ESSEX RAPE	30-50	8 DAYS	PASTURE	SPRING	DRAINED	
RADISH	6-8	14 DAYS	WINTER FORAGE	L.AUGUST /E. SEPT	ALL	REDUCES COMPACTION

*GERM – NUMBER IS VALID ONLY AFTER SOIL TEMPERATURE HAS REACHED 60°



SUMMER ANNUAL

BUCKWHEAT

It is well adapted to poor soils and is used for cover



crops.

CHICORY

A perennial forage that is highly nutritional for summer and fall feedings. Excellent for deer. It has a deep taproot to withstand heavy grazing. Very drought resistant and is high in mineral and protein content.

MILLET

A rapidly growing annual used for bird feed.

PEA

An annual legume similar to garden peas, but lacking in sweetness and flavor. Often combined with triticale or oats and used as a cover crop.

Varieties: *Canadian Field, Winter Pea*

RAPE

A good emergency pasture for hogs and sheep.

Varieties: *Bonar, Essex, Forage*

SORGHUM

A versatile feed option which produces high quality silage and feed. Brown midrib sorghum provides an increase in energy for livestock. Sorghum Sudangrass is used for silage, green chop, or hay.

Varieties: *Viking 200 BMR Sorghum Sudangrass,*



VETCH

A legume that is used for hay, pasture, or erosion control.

Varieties: *Hairy, Common*

SPRING GRAIN

BARLEY

Barley is resistant to smut and powdery mildew.

Varieties: *Lacey, Conlon*

OATS

Oats are widely grown for grain and straw. They are also used for pasture, hay, or silage.

Varieties: *Morton, Saddle, Forage Maker*



SPRING WHEAT

Spring wheat should be planted as early as possible. It can be used for human, as well as animal food source.

Varieties: *Prosper, Magog*



SOYBEANS

A food grade variety widely used for tofu and other soybean foods.

Varieties: *Viking, VNS 1.0 Soybean*

TRITICALE

A hybrid combination of two annual cereal crops-wheat and rye

WINTER GRAIN

WINTER TRITICALE

Combines high yield potential, grain quality, and disease resistance of wheat with the winter hardiness and low fertility requirements of rye. It should be cut or chopped before it heads out for best forage quality. Seed 100-120 lbs. per acre for maximum forage.



RED WINTER WHEAT

A high yield red wheat with an excellent disease resistance package. It had one of the highest winter survival ratings in Cornell trials. Recommended seeding rate is 90 to 120 lbs. per acre.

Variety: *Warthog, VNS Winter Wheat*

WINTER BARLEY

Has excellent straw strength and a very high tolerance to barley yellow dwarf. Should be planted in early to mid-September. It should be ready to harvest about two weeks earlier than winter wheat, possibly allowing for some double cropping. Plant at the rate of 96 lbs. per acre, using the same fertility program as wheat.

Variety: *ask*



WINTER RYE

Winter rye establishes well in cold soils, and has more horizontal growth for better ground cover. It is a very tall early variety, and exhibits great winter hardiness. Seed at 110 to 140 lbs. per acre, or seed at 70 lbs. per acre if incorporated.

FODDER

The seeds that we recommend most often are barley, alfalfa, millet, oats, wheat, grain rye, ryegrass, buckwheat, field peas, clover, sunflowers, sorghum, and more. Barley is the most common. The fodder "rule of thumb" is 2% of the animal's live body weight of fodder per day. One pound of seed can produce up to eight pounds of fodder. In some cases, two pounds of seed can feed an 800 lb. animal for one day.

INOCULANTS

Legume inoculants are strains of beneficial bacteria called rhizobia. The rhizobia attach themselves to the seed, and promote greater nodulation and fixation of nitrogen. This promotes better stand establishment and stronger plants with a greater ability to withstand adverse conditions. For legumes used in forage situations, higher levels of available nitrogen translate into maximum protein production.

<u>ITEM NUMBER</u>	<u>INOCULANT</u>	<u>SIZE</u>	<u>FULL CASE</u>
INAL050*	ALFALFA/CLOVER	TREATS 50-60 lbs.	60/case
INBT050*	BIRDSFOOT TREFOIL	TREATS 50-60 lbs.	60/case
INCR050*	CROWNVETCH	TREATS 50 lbs.	60/case
INPV50 *	GARDEN COMBO/PEA VETCH	TREATS 50 lbs.	48/case
INGA008*	GARDEN	TREATS 8 lbs.	200/case
INSOY300*	SOYBEAN	TREATS 300 lbs.	35/case

FALL COVER CROPS

Cover crops make so much sense – they cut fertilizer costs, improve soil health and condition, prevent soil erosion, improve water holding and infiltration capacity, produce nitrogen, and much more. Many cover crops are **ALLELOPATHIC**, which means they exude chemicals from their roots that suppress the growth of other plants (weeds!) around them.

Cover crops are either **LEGUMES** (clover, hairy vetch, peas, alfalfa) which convert nitrogen in the air to a form that plants can absorb or **NON-LEGUMES** (buckwheat, cereal/small grains, and crucifers like radish, turnip and mustard) that contribute added organic matter and suppress weeds. Both groups are useful tools in a crop rotation line-up. Often you don't have to choose one type over the other type but you can use a mixture of different types of cover crops. Peas & oats, rye & vetch, winter peas & triticale, oats & radish are particularly useful combinations.

When planning which cover crop to plant in the fall, it is also helpful to divide the available species: (1) those that will **WINTER-KILL**, and not re-grow in the spring, and (2) those that will produce some growth in the fall, go dormant during the winter, and then grow back in the spring. The following is more information about both types of cover crops.

WINTER–KILLED COVER CROPS

ANNUAL RYEGRASS – like many cover crops, it's good at building soil, reducing runoff and erosion, sequestering nitrogen, improving infiltration, and boosting organic matter. It is easy to establish in the fall with adequate moisture. For best results, it needs 45 – 60 days of growth before freezing temperatures. Annual ryegrass is more susceptible to winterkill where no snow, combined with very low wind chill and multiple freeze/thaw conditions are culprits.

BUCKWHEAT – A quick-growing cover crop that effectively suppresses weeds, frees up phosphorus, and softens and loosens the soil. Buckwheat works even in poor soils with persistent weed problems. It is commonly planted in the summer, although it can also be used as a fall cover.

OATS – Produces vigorous grassy growth through the fall. Oats natural **ALLELOPATHY** (see first paragraph) suppresses weeds while producing lots of biomass. By spring the oats are gone. Oats can be grown alone or in combination with peas, turnips, or radishes. Plant 40-60 days before the first killing frost. Fall oats, especially mixed with turnips or peas, make great grazing.

FIELD PEAS – A legume whose vines break down rapidly, releasing accumulated nitrogen in a form that other plants can easily use. Mix with oats in the fall as the small grain is needed for support.

RADISH – Studies have shown that corn & soybeans, planted after a fall radish cover crop, will have significantly higher yields. Radish reduces soil compaction by punching holes through compacted layers, improving water infiltration, suppressing weeds and nematodes, and controlling erosion in fall & winter months. They scavenge and hold soil nutrients at the surface and increase soil organic matter by up to 5 tons/acre. After manure applications, they effectively hold the nutrients. Plant 30-60 days before the first killing frost. **CAUTION:** They do not smell good as they rot in the spring.

YELLOW MUSTARD – Yellow mustard can be used as a short time spring cover crop prior to planting red kidney beans with great success. Like radishes, mustard is a crucifer, producing **glucosinolates** (or “hot” flavored chemicals) that suppress root rots and nematodes in the soil. This year they are trying to use it for a fall cover crop.

OVER –WINTERING COVER CROPS

MEDIUM RED CLOVER – This is the standard, dependable, widely adapted legume cover crop that organic farmers rely on for much of their nitrogen needs. They have frost-seeded red clover into their winter small grains in February-March. It grows through the spring, and really takes off after grain harvest. By the following year the clover can be plowed, providing enough soil nitrogen to grow a healthy crop of corn or a vegetable crop. Clover can also be sown with a spring small grain before grain emergence. Be aware that soil diseases affecting beans, peas, and soybeans are also hosted by clover, so close rotations of these crops may technically be rotating crop species, but may not be sufficiently rotating root pathogens.

BALANSA WHITE CLOVER – Fixation Balansa Clover performs best when fall seeded. The rosette growth habit that hugs the ground assists Fixation in its ability to withstand cold temperatures. It will aggressively produce forage in the spring - early summer months. This clover can be frost seeded by broadcasting on established pastures. The small seed size and hardness of Fixation allow it to successfully be broadcast, and establish under proper management in existing forage.

HAIRY VETCH – Vegetable farmers love vetch for its strong nitrogen fixation, soil structure improvement, and weed suppression. Vetch planted in the fall with rye or wheat produces an early spring cover that can be tilled or rolled before planting vegetable seed or transplants. **WARNING:** Vetch is considered a noxious weed in winter small grains grown for milling. Flour made from wheat contaminated with vetch seed is bitter with unattractive black specks. Getting rid of vetch can be very difficult, since the raw seed contains hard seed which does not necessarily come up the first year it is planted.

AUSTRIAN WINTER PEAS – Planted in September with barley or triticale, it grows moderately through the fall, then in the spring it explodes with vigorous viney growth and purple flowers, adding lots of nitrogen to the soil. The small grain is needed to support and protect the peas against winter kill. They have found that 2 bu barley/A is about the right amount to provide adequate support for the peas without being too competitive. This also makes a highly nutritious and palatable spring pasture for grazing.

FALL RYE – A hardy grain which can be seeded later and still produce a tremendous amount of biomass. Ryes strong **allelopathy** suppresses weeds and also controls nematodes and insect pests. Rye is often mixed with hairy vetch. **WARNING:** Rye can be vigorous in the spring and if not plowed under fairly early, you may need to mow or chop it before plowing.

TRITICALE – A cross between wheat and rye, triticale combines the vigor and wide adaptability of rye with the growth habit of wheat. Triticale is highly versatile as a cover crop, forage, or grain crop. It mixes well with peas or vetch. Both winter and spring versions of triticale are available which expands its usefulness.

RECOMMENDED SEEDING RATES (CALL FOR OTHER CROP RATES)

CROP	PLANTING DATE	SEEDING RATE/A	SEEDING DEPTH
RADISH	AUG – MID SEPT	6 – 8 LB	¼ - ½ IN
OATS	LATE AUG – MID SEPT	50 – 100 LB	1 – 2.5 IN
BUCKWHEAT	UNTIL EARLY SEPT	40 – 60 LB	½ - 1.5 IN
FIELD PEAS	UNTIL EARLY SEPT	60 – 100 LB	1 IN
YELLOW MUSTARD	EARLY SPRING – FALL?	7 – 10 LB	FROST SEED – ¾ IN
WINTER RYE	MID SEPT – LATE OCT	100 – 150 LB	1 – 2 IN
HAIRY VETCH	MID SEPT – MID OCT	8 – 10 LB	¼ - ½ IN
WINTER TRITICALE	MID SEPT – LATE OCT	100 – 150 LB	1 – 2.5 IN
AUSTRIAN WINTER PEAS	MID SEPT – MID OCT	60 – 100 LB	1 IN
CLOVERS	EARLY SPRING, FALL	8 – 15 LB	FROST SEED – ½ IN



WILDFLOWERS



L.D. OLIVER NORTHERN REGION WILDFLOWER MIX - A mixture of 20 native and naturalized wildflowers specially formulated for this area. A combination of annual, biennial, and perennial wildflowers offering an ever-changing carpet of color through the seasons. Contains the following ingredients:

<u>Percent</u>	<u>Variety</u>	<u>Percent</u>	<u>Variety</u>
10.75%	Blue Flax	9.00%	Sweet William
10.00%	Scarlet Flax	8.00%	Rocket Larkspur
10.00%	Siberian Wallflower	5.00%	Baby's Breath
10.00%	Bachelor Button		

None of the following individual varieties exceed 5% of the total mix: Cosmos-Sensation Mix, Baby's Breath, Mixed Lupine, California Poppy, Purple Coneflower, Dwarf Plains Coreopsis, Spurred Snapdragon, Corn Poppy, Lance Leaved Coreopsis, Clarkia, White Yarrow, Indian Blanket, and New England Aster.

Recommended application: 1/2 lb. per 3000 sq. ft., 4 to 8 lbs. per acre

Available sizes: 1/2 lb. (SHAKER)
4 lb. (BUCKET)

Item #WFFF0.5
Item #WFFF004

PERENNIAL WILDFLOWER MIX - A mixture of 13 perennial wildflowers specially formulated for the northeast. Contains the following ingredients:

<u>Percent</u>	<u>Variety</u>	<u>Percent</u>	<u>Variety</u>
17.00%	Perennial Lupine	8.00%	Lance Leaf Coreopsis
13.00%	California Poppy	8.00%	Purple Coneflower
12.00%	Siberian Wallflower	8.00%	Sweet William
11.00%	Blue Flax		

None of the following individual varieties exceed 5% of the total mix: Blanket Flower, Shasta Daisy, Prairie Coneflower-Yellow, Black-Eyed Susan, Ox-Eye Daisy, and White Yarrow.

Recommended application: 1/2 lb. per 3000 sq. ft., 4 to 8 lbs. per acre

Available sizes: 1/2 lb. (SHAKER)
(BUCKET)

Item #WFFP0.5 4 lb.
Item #WFFP004



WILDFLOWER (cont.)



ESTABLISHING WILDFLOWERS

Rake the area to form grooves.

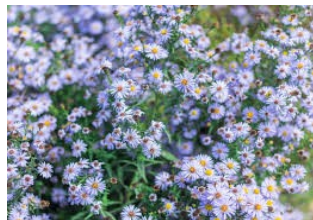
Broadcast seed with shaker or cyclone seeder. See seeding rates above.

Lightly rake over area to ensure proper soil/seed contact.

When to Plant: Early spring is the best time, but dormant seeding is also an option. Late summer seeding should be 8-9 weeks prior to first frost. Companion Crop: A non-competing companion grass such as sheep fescue or hard fescue will bulk up the mix for easier application, stabilize the soil until wildflowers become established and decreases annual weed competition. Use 4 lbs. per 1000 sq. ft. with the wildflower mix.

Maintenance: Established wildflowers do not require a lot of maintenance. If natural rainfall does not occur, watering will aid in germination and establishment. Mow the area in the fall. This will make the area neater, and spread the seeds of the annuals for germination in the following year.

RECLAMATION & CONSERVATION SPECIES



Many species of reclamation and native seeds are available upon special order. We use Ernst Seeds out of Pennsylvania for these items. They specialize in native species for the North Eastern USA. Most special orders are obtainable within 4-5 days. Individual species and blends are available. There are popular blends available but engineer specifications are needed to quote specific jobs.

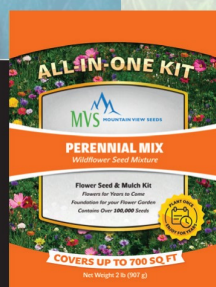
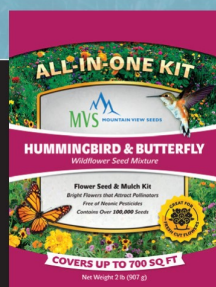
ALL-IN-ONE WILDFLOWER KITS

Available in **SIX** bright and beautiful varieties

- **Suggested Retail: \$9.99**
- *Non-GMO Seed Varieties*
- *Contains over 100,000 Seeds*
- *Covers up to 700 Square Feet*



Net Weight – 2 lbs (907 g)
Case pack – 18 units
Cases per pallet – 16 cases



HUMMINGBIRD AND BUTTERFLY

- 79% Annual Flowers
- 6% Perennial Flowers
- 15% Tender Perennial Flowers

BEE POLLINATOR

- 39% Annual Flowers
- 50% Perennial Flowers
- 11% Tender Perennial Flowers

SHADY

- 73% Annual Flowers
- 27% Perennial Flowers

PERENNIAL MIX

- 100% Perennial Flowers

AROMATIC

- 60% Annual Flowers
- 26% Perennial Flowers
- 14% Tender Perennial Flowers

LOW-GROW BORDER

- 59% Annual Flowers
- 14% Perennial Flowers
- 13% Tender Perennial Flowers
- 14% Biennial Flowers

**GUARANTEED TO GROW
EASY TO MAINTAIN**

LAWN SEED + MULCH COMBINATION



ProPatch™ Complete Lawn Repair Kit

Available in **two**
convenient sizes

WaterGardQS™ ProPatch™ is a complete lawn repair kit that will professionally repair your lawn's bare patches with an easy-to-apply, sure-to-grow formula.



WaterGardQS™ ProPatch™
3.5LBS Jug

Covers up to 80 Square Feet

Suggested retail \$12.99

Contains **WaterGardQS™**
coated seed

Case pack – 6 units

Cases per pallet – 18 cases

WaterGardQS™ ProPatch™
10LBS Bag

Covers up to 250 Square Feet

Suggested retail \$24.99

Contains **WaterGardQS™**
coated seed

Case pack – 4 units

Cases per pallet – 24 cases

**LAWN SEED + MULCH COMBINATION
8X WATER RETENTION**

GMF CONSUMER FERTILIZERS

The following blends of GMF fertilizer are in CONSUMER BAGS. Each bag has complete directions for use, rates of application, and spreader settings. In heat-sealed 5 mil. poly bags (unless otherwise noted).

5-10-5, 5-10-10, and 10-10-10 - Ever popular and economical general purpose fertilizers for vegetables, flowers, and trees.

Available sizes:	(5-10-5)	25 lb. and 50 lb.
	(5-10-10)	25 lb. and 50 lb.
	(10-10-10)	25 lb. and 50 lb.

L. D. Oliver Seed Co. has changed its formulas for lawn fertilizer to comply with the Vermont statute. No fertilizer is to be applied to lawns before April 1st or after October 15th, or when the ground is frozen.

GMF LAWN STARTER 6-16-12 1.2Mg 33% WATER INSOLUBLE NITROGEN

An excellent starter fertilizer with 33% slow release nitrogen for extended feeding. Keeps roots growing well beyond the end of top growth, thereby guarding against winterkill.

50 lbs. Covers 5,000 sq. ft.

Available sizes: 25 lb. Item # 061612LS25

50 lb. Item # 061612LS50

GMF LAWN SUPREME 20-0-12 1.2Mg 20% WATER INSOLUBLE NITROGEN

Encourages dark green color, increases plant vigor and disease resistance.

Use for extended feeding.

50 lb. bag covers 10,000 sq. ft.

Available sizes: 25 lb. Item # 2000124W25

50 lb. Item # 2000124W50

GMF One Step 12-0-7 20% Water Insoluble Nitrogen

Our timesaving fertilizer and pelletized lime combine with iron to encourage dark green color. Provides major nutrients along with a variety of micronutrients

40 lb. bag covers 5,000 sq. ft.

Available size: 40 lb. Item #1200074W40

GMF FALL SUPREME 06-00-12 1.2 Mg 62% ORGANIC

50 lb. bag covers 10,000 sq. ft. as a WINTERIZER

Available sizes: 25 lb.

Item #060012FS25

50 lb.

Item #060012FS50

GMF STARTER FERTILIZER For HYDROSEEDING 19-19-19

Available size: 50 lb.

Item #19191950

FERTILIZER ANALYSIS & APPLICATION

The three numbers in the analysis tell the percentage of the three essential plant foods: nitrogen, phosphorus, and potassium. Additional numbers indicate the addition of secondary or minor plant food elements: Magnesium (Mg), Copper (Cu), Zinc (Zn), Iron (Fe), Manganese (Mn), Boron (B), and Sulfur (S).

Nitrogen will increase growth of leaves and stems, stimulates rapid early growth, and greening up the plant. A deficiency in nitrogen will cause yellow leaves and stunted growth.

Phosphorus promotes root formation and growth. Particularly helpful to root crops such as potatoes, carrots, and beets. A deficiency in phosphorus will cause lower leaves to turn red, purple or an unusual deep green.

Potassium increases plant vigor and resistance to disease. It stimulates production of strong, stiff stalks, promotes the production of sugar, starch and oils, and increases plumpness of fruits and vegetables. A deficiency will result in yellow leaves at the tips and edges, weak stalks, and poor “setting” of fruit.

General guidelines for application

Lawns— Established		Lawns—New Seeding	
Analysis	Lbs/1000 sq.ft	Analysis	Lbs./ 1000 sq ft
Lawn Supreme - All Formulas 20-00-12 1.2 mg 20% SRN	5 lbs.	Lawn Starter - 06-16-12 33% SRN	10 lbs
One Step—All Formulas 12-00-07 w/ mg & FE 20% SRN	8 lbs		

FLOWERS and VEGETABLES

ANALYSIS	Lbs. /1000 Sq.FT	Row Application	Banding/ 25 linear ft	Circling Per Plant
Garden Supreme	20-30 lbs.	2-3 lbs	2.3 cups	1.2 tablespoons
10-10-10	20-25 lbs.	2-3 lbs	2 cups	1 1/2 Tablespoon
10-20-20	15-18 lbs	2-3 lbs	2 cups	1-2 tablespoons

TREES and SHRUBS

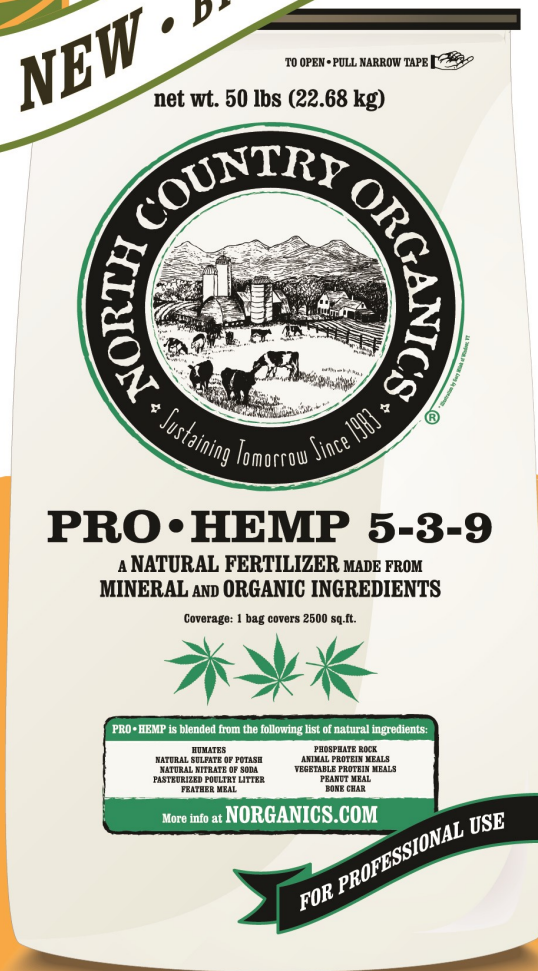
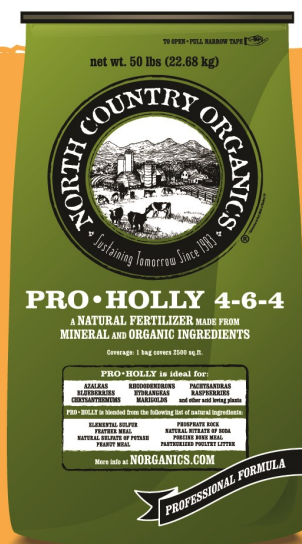
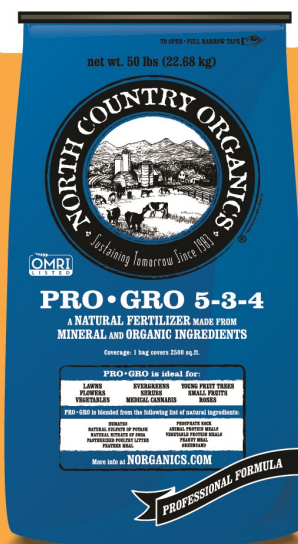
DIAMETER OF DRIP LINE

Analysis	10 FEET	20 Feet	40 FEET	60 Feet	80 FEET
05-10-05,05-10-10	2 lbs.	6-9 lbs.	25-38 lbs.	56-84 lbs.	100-150 lbs
10-10-10	1 lbs.	3-4 lbs.	12-19 lbs.	28-40 lbs.	33-50 lbs
15-15-15	1/2—1 lbs.	2-3 lbs.	8-13 lbs	19-28 lbs	20-30 lbs

Apply fertilizer beginning 1/4 distance from trunk and extend 15% beyond outer limits of branches.



NEW • BY POPULAR DEMAND



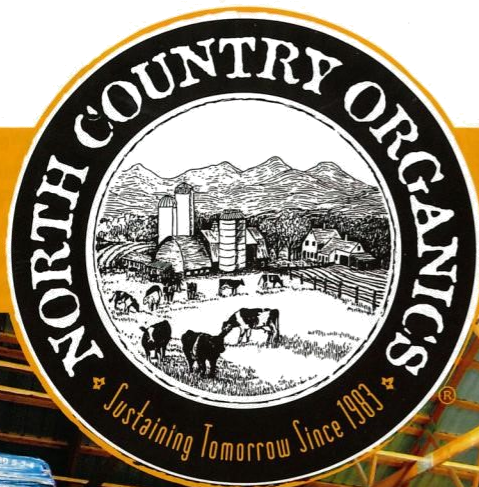
**NATURAL FERTILIZERS and SOIL AMENDMENTS
ENVIRONMENTALLY COMPATIBLE PEST CONTROLS**

**FRUIT and VEGETABLES
LANDSCAPING
NURSERIES
ORCHARDS
TREE and TURF CARE
and MUCH MORE...**

More info on
NORGANICS.COM



* for a complete list of WSDA & OMRI listed products
please see our website.



ALL NATURAL LAND CARE SUPPLIES

PRODUCT LIST



MANY OF OUR PRODUCTS ARE



PRO-GRO (5-3-4)

Is North Country Organics' premium general purpose fertilizer that excels in every application. Pro-Gro is a high nutrient natural product that plants and trees respond to with rapid and sustained growth, making it the most popular blend for nurserymen, landscapers, fruit and vegetable growers, farmers, and retail dealers. Whether it is used in gardens, lawns, orchards, nurseries or fields, Pro-Gro 5-3-4 improves the yield and quality of anything that grows. Available in 50 lb., 25 lb., and 5 lb. bags.



PRO-START (2-3-3)

Was originally designed as a winterizing blend for lawns and grass hay. However, over the years it proved to be an excellent choice for root crops, tomatoes, eggplants, legume vegetables, perennials, flowering shrubs, mature fruit trees, legume hays (as a summer top-dress), and especially as a starter fertilizer for any kind of seed or transplant. Available in 50 lb., and 25 lb., bags.



PRO-GRO and PRO-START in our 25 lb. bags are ideal for Lawn and Garden Center retail sales.

NORTH COUNTRY ORGANICS • P.O. Box 372, Bradford, VT 05033 • ph: 802.222.4277 • fx: 802.222.9661 • email: info@norganics.com

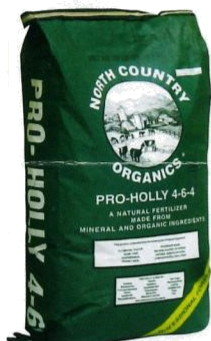
For more information please visit our website at NORGANICS.COM

CHEEP CHEEP (4-3-3)

A single ingredient, all purpose organic fertilizer from North Country Organics designed to fulfill the needs of certified organic growers and ecological land care professionals at a lower cost. Cheep Cheep, as the brand implies, is made from pasteurized poultry litter and is competitively priced. Cheep Cheep is a consistent, dust-free, granular product that flows well and dispenses through any style of spreading equipment.



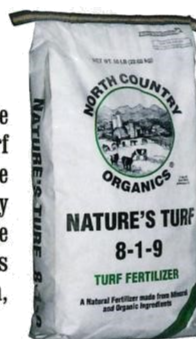
PRO-HOLLY (4-6-4)



A natural fertilizer blended from mineral and organic ingredients specifically made for ericaceous and other acid loving plants such as Azaleas, Ferns, Heaths, Hydrangeas, Raspberries, Blueberries, Pachysandras, Holly, and Rhododendrons. Pro-Holly is specially formulated to meet the nutrient needs of plants that require more acid conditions. The natural ingredients provide, not only the major and minor nutrients required by acid-loving plants, but also serves to maintain the proper pH.

NATURE'S TURF (8-1-9)

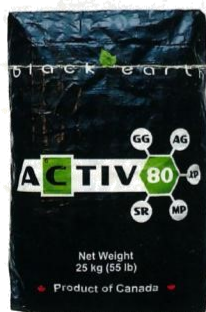
Nature's Turf 8-1-9 is a designer fertilizer made specifically for turf. The objective of Nature's Turf 8-1-9 is to provide nutrients to turf plants in the most efficient manner possible, and the best way to accomplish that is to enliven and enrich the biological activity in the soil. Nature's Turf contains ingredients that feed soil organisms which, in turn, improve conditions for turf's success.



Black Earth HUMATES (Activ80)

Black Earth Humate is weathered sub-bituminous coal (humalite), mined in Alberta, Canada and is similar to weathered lignite (leonardite).

Alberta humalite is a highly oxidized naturally occurring organic material that has the lowest ash content at 11%, and the highest humic acid content at 83%, of all humates mined in North America. It is screened to a dust-free consistency. Application of humates to almost any type of crop will help to compensate for lost productivity that occurs with soil humus losses.



BONE CHAR (0-16-0)

A biochar that contains more than 16% available phosphate (P_2O_5) and 32% total phosphate, plus 33-34% calcium. Bone Char has five times more available phosphate than phosphate rock. It is OMRI Listed and can be applied without restrictions on certified organic farmland.



PRO-BOOSTER (10-0-0)

A special blend of protein meals and natural nitrate of soda that offers 10 percent total nitrogen, one third of which is immediately available (water soluble) and two thirds in a slow release form. Pro-Booster provides nitrogen to plants that need an extra boost during critical periods of the season. Whether it is used on heavy feeding turf varieties or N loving field crops, Pro-Booster is the natural choice.



PHOSPHATE ROCK (0-3-0)

Phosphate Rock is a natural, untreated soft phosphate with colloidal clay containing valuable minor minerals in addition to phosphorus. It is not acid forming, will not cake or harden and spreads easily through any type of lime, phosphate or fertilizer spreader.



GREENSAND

This naturally occurring iron-potassium silicate (also called glauconite) has the consistency of sand but is able to absorb 10 times more moisture making it an

exceptional soil conditioner for pastures, forage fields, orchards, small fruits, vegetables and greenhouse potting mixes.



NATURAL NO-PHOS (6-0-6)

Natural No-Phos is a natural fertilizer that contains no phosphates. The environmental protection agencies in some States are campaigning against the use of phosphates in fertilizers to reduce the amount of runoff into streams and lakes. Excess phosphates in waterways can cause eutrophication. Natural phosphates don't pose much of a runoff problem but we have created this blend to show our support for the effort of these agencies.



CUSTOM BLENDS

NCO provides the convenience of custom blending for those who prefer their own combinations of natural ingredients or for areas where specific ratios of nutrients are required to correct unbalanced soils. Custom blends of two or more ingredients can also lessen the compaction caused by and extra energy used for multiple applications. We require only a one ton minimum purchase but need a minimum of 3-4 weeks notice on custom blended orders.

Also available from NCO - Alfalfa Meal, Kelp Meal, Blood Meal, Calcium Lime (pelletized), Sulfur*, Epsom Salt*, Feather Meal, Gypsum*, Greensand Plus, Natural Nitrate of Soda* (Chilean Nitrate), Corn Gluten, Sulfate of Potash*, and Sulfate of Potash-Magnesia.



A word about Chilean Nitrate

A proposed NOP rule change prohibiting Chilean nitrate as a source of nitrogen on certified organic farms was scheduled to take place in October, 2012. However, as of this revision, no specific determination has been made and it is unknown when or if Chilean nitrate will be prohibited on certified organic farms. It is still an OMRI listed product.

Fafard Products

Fafard Ultra Container Mix

This all-purpose container mix with Moisture Pro™ water-holding crystals helps maintain mix moisture for longer and has an extended-release fertilizer to keep plants fed for up to four months. Use for all container plantings, indoors and out, like hanging baskets, window boxes, and planters.

PSFAUC01

1 CU.FT.



Fafard Ultra Outdoor Planting Mix

High in organic matter, this quality planting mix has been formulated for garden and landscape planting. It contains peat moss and aged softwood bark to add structure and organic matter to clay or sandy soils. Use to enrich all outdoor garden or landscape plantings like vegetables, herbaceous ornamentals, roses, trees, and shrubs.

PSFACP01

1 CU.FT.



Fafard Premium Natural & Organic Compost

Formulated for organic gardening, this natural and organic amendment is excellent for any garden bed or landscape planting, like bedding annuals and perennials, vegetables, trees, and shrubs.

COFAF1CF

1 CU.FT.



Fafard Professional Potting Mix

An all-purpose potting mix based on their professional formulation used by commercial growers, Fafard® Professional Potting Mix is a top-quality peat-based blend recommended for all indoor and outdoor container plantings.

PSFAPP1

1 CU.FT.

PSFAPP2

2 CU.FT.



Fafard Premium Topsoil

Fafard Premium Topsoil will add much-needed organic matter to garden

soil or landscape planting that requires enrichment. It's also ideal for

starting or top-dressing lawns or filling in low spots in the landscape or garden.

TSFAF30

1 CU.FT.



Coast of Maine®

Quoddy Blend Lobster Compost

Uses: Planting amendment for conditioning flower beds and borders, vegetable gardens, herbs and annuals. **Terrific for growing vegetables!**

Coast of Maine Organic Products Quoddy Blend Lobster Compost is made with chitin and calcium-rich lobster shells, compost and sphagnum peat moss. It is a dark-brown, complex soil filled with naturally occurring microorganisms all plants need for healthy growth. It drains well and is an ideal soil conditioner for existing beds that need reinvigorating.



Stonington Blend Grower's Mix

Uses: Containers and large pots. **Grows the most amazing tomatoes & vegetables!**

Coast of Maine Organic Products Stonington Blend Grower's Mix is a complex "super soil" designed for high performance container growing. It works well with tomatoes, and, where growing cannabis and medical marijuana is legal, growers have reported tremendous results. This soil incorporates mycorrhizal fungi, kelp, fish bone and alfalfa meal, as well as worm castings, peat, coir and lobster compost. When growing in 15 gallon containers, there is no need for additional nutrients.

It is [OMRI listed](#) for use in organic gardens

Available in 1.5cf bags – enough to fill a 10 gallon pot.



Fundy Blend Enriching Mulch with Kelp

Uses: Top dressing roses and perennials

Coast of Maine Organic Products Fundy Blend Enriching Mulch with Kelp is made from humified barks (birch, maple and hemlock) and a blend of kelp solids and sphagnum moss peat to create an almost black humus that is rich in organic matter. It helps retain moisture in the soil and can be dug into the beds in the fall to improve the organic content of the soil. It is permitted for use in the production of [MOFGA certified](#) organic crops.

Available in 1 & 2 cubic foot bags.

Target pH 6.3



MOO DIRT®
Top Soil

Ingredients:
Composted Manure (from one or more of the following: cow, horse, and chicken)
Sphagnum Peat Moss
Sand

Applications:
Improving Poor Soils
Seeding New Lawns
Top Dressing Lawns
Repairing Damaged Lawns
Filling Low Spots

Available Bag Size:
1 cf

MOO DOO®
Composted Cow Manure

Ingredients:
Composted Cow Manure

Applications:
Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns
Increasing Soil Fertility
Adding Organic Matter
Controlling Erosion

Minimum Guaranteed Analysis:

 Nitrogen (N) 0.5%
 Available Phosphate (P₂O₅) 0.3%
 Soluble Potash (K₂) 0.5%

Available Bag Sizes:
1 cf, .5 cf

MOO PLUS®
Dehydrated Composted Cow Manure

Ingredients:
Dehydrated Composted Cow Manure

Applications:
Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns
Increasing Soil Fertility
Adding Organic Matter
Controlling Erosion

Minimum Guaranteed Analysis:

 Nitrogen (N) 1.0%
 Available Phosphate (P₂O₅) 1.0%
 Soluble Potash (K₂) 1.0%

Available Bag Sizes:
1 cf, .5 cf

MOO GROW®
All Purpose Potting Soil

Ingredients:
Composted Manure (from one or more of the following: cow, horse, and chicken)
Sphagnum Peat Moss
Composted Hardwood Bark
Sand
Organic Fertilizer

Applications:
Window Boxes
Garden Beds
Annuals
Perennials
Large Containers

Available Bag Sizes:
1 cf, .5 cf

MOO MIX®
Fortified Professional Potting Soil

Ingredients:
Dehydrated Composted Manure (from one or more of the following: cow, horse, and chicken)
Sphagnum Peat Moss
Perlite
Aged Pine Bark
Organic Fertilizer

Applications:
Hanging Baskets
Window Boxes and Small Containers
House Plants
Greenhouses
Annuals and Perennials

Available Bag Sizes:
2.5 cf, 1 cf, .5 cf

MOO START®
Germinating Mix

Ingredients:
Dehydrated Composted Manure (from one or more of the following: cow, horse, and chicken)
Sphagnum Peat Moss
Vermiculite
Organic Starter Charge

Applications:
Starting Seeds
Cuttings
Sensitive Transplants
Six Packs
Plug Trays

Available Bag Sizes:
2.5 cf, 1 cf, .5 cf

MOO PLANT™
Tree & Shrub Mix

Ingredients:
Composted Manure
Sphagnum Peat Moss

Applications:
Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns
Improving Poor Soils

Available Bag Size:
1 cf

MOO COMPOST™
Premium Compost

Ingredients:
Composted Manure (from one of the following: cow, horse, and chicken)
Composted Hard & Softwood Bark

Applications:
Garden Beds
Container Mix and General Use
Mulching Under Trees and Shrubs
Top Dressing Lawns

Available Bag Size:
1 cf

MOO ENHANCED™
Dark Mulch Enhanced With Compost

Ingredients:
Composted Cow and/or Chicken Manure
Aged Hardwood & Softwood Bark

Applications:
Mulching
Soil Conditioner

Available Bag Size:
1.5 cf



All of our MOO™ blends are made to be acceptable for Organic Farms. While most users are not Organic Farmers, we decided long ago that MOO™ products would be the best in the industry from both an environmental and quality perspective. Try MOO™ and you will agree.





All of our products promote sustainable agriculture and a commitment to family owned businesses. We continue to research new applications and methods for composting and ways to utilize precious agricultural resources.

Vermont Natural Ag Products, Inc. • Middlebury, VT • (800) 639-4511 • www.mooodoo.com

Rev 07/19

Our MOO™ products earned the Commissioner's Choice Vermont Seal of Quality while this award existed. It acknowledged Vermont farm products that were essentially 100% produced and processed in the state of Vermont, a claim which we continue to meet.

	 							
	Garden Beds Top Dressing Lawn Seeding Shrubs and Trees Container Plants Starting Seeds and Cuttings Transplanting Mulching							
MOO DIRT®								
MOO DOO®								
MOO PLUS®								
MOO GROW®								
MOO MIX®								
MOO START®								
MOO PLANT™								
MOO COMPOST™								
MOO ENHANCED™								

Foster Brothers Dairy Farm Premium

Top Soil

Ingredients:

Compost
Sphagnum Peat Moss
Sand

Application:

Improving Poor Soils
Seeding New Lawns
Top Dressing Lawns
Repairing Damaged Lawns
Filling Low Spots
Amending Existing Soils
Replacing Poor Soils

Available Bag Size:

1 cf

Composted Cow Manure

Ingredients:

Composted Cow Manure

Application:

Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns
Controlling Erosion
Adding Organic Matter
Increasing Organic Matter

Minimum Guaranteed Analysis:

Nitrogen (N)	1.0%
Water Insoluble (N)	.8%
Water Soluble (N)	.2%
Available Phosphoric Acid (P ₂ O ₅)	1.0%
Soluble Potash (K ₂ O)	1.0%

Available Bag Size:

1 cf

Dehydrated Composted Cow Manure

Ingredients:

Dehydrated Composted Cow Manure
Sand

Application:

Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns

Minimum Guaranteed Analysis:

Nitrogen (N)	2.00%
Water Insoluble (N)	1.6%
Water Soluble (N)	.4%
Phosphoric Acid (P ₂ O ₅)	1.00%
Potassium (K ₂ O)	2.00%

Available Bag Size:

1 cf

All Purpose Potting Soil

Ingredients:

Composted Cow Manure
Sphagnum Peat Moss
Sand
Perlite

Application:

Container Plants
Window Boxes
Garden Beds
Annuals
Perennials
Large Containers

Available Bag Sizes:

1 cf, 20 lb

Shrub & Tree Mix

Ingredients:

Compost
Sphagnum Peat Moss
Sand

Application:

Garden Beds
Mulching Trees and Shrubs
Top Dressing Lawns
Improving Poor Soils

Available Bag Size:

1 cf



Our products earned the Commissioner's Choice Vermont Seal of Quality while this award existed. It acknowledged Vermont farm products that were essentially 100% produced and processed in the state of Vermont, a claim which we continue to meet.



Vermont Natural Ag Products, Inc.

Middlebury, VT

(800) 639-4511

www.vermontnaturalagproducts.com

Rev 07/19



Garden Beds

Top Dressing

Lawn Seeding

Shrubs and Trees

Container Plants

Starting Seeds and Cuttings

Transplanting

Top Soil							
Composted Cow Manure							
Dehydrated Composted Cow Manure							
All Purpose Potting Soil							
Shrub & Tree Mix							

MULCH – HYDROSEED – WOOD/PAPER

PROFILE WOOD MULCH

A fully biodegradable hydraulic mulch that contains 100% quality wood fiber. Now with TriFlo for better yield, better shooting, and better ground coverage.

Available: WOOD 1000 Item #MHWCW1000 Wgt: 50 lbs. 40/pallet

PROFILE WOOD/PAPER MULCH

Fully biodegradable hydraulic mulch consisting of refined wood fiber (70%) with high quality cellulose mulch (30%).

Now with “Triflo” for better yiel, less clogging and better ground coverage.

PROFILE CELLULOSE MULCH

A 100% paper mulch that forms an even fibrous mat to minimize seed displacement from wind and soil erosion. It’s biodegradable and provides favorable temperature and moisture conditions for seed germination. Contains temporary green dye for a visual guide.

Available size: 40 lbs. Item #MHPNF40 48/pallet

POURABLE

PROFILE SEED—AIDE COVER GROW

A granular mulch composed of 37% wood fiber/58% cellulose fiber and 5% tackifier. Use for rapid dispersion and fast mixing in jet-agitated hydroseeders. Once applied to a seeded area and activated by water, the granules quickly expand and disperse to provide outstanding protection.

Available: Item #MHCWSC40 Wgt: 40 lbs. 48/pallet

PENNMULCH

Easy-to-apply pellets expand when watered to provide even mulch coverage. Provides quick-release starter fertilizer (1-3-1). Application rate of 75 lbs. per 1000 sq. ft. A one-step mulch and fertilizer for new turf establishment. No weed seeds and no cleanup required.

Item # MPPM050 WGT: 40 lbs. 50/pallet

PROGANICS BIOTIC SOIL MEDIA

Designed as a topsoil alternative that accelerates the development of depleted soils with low organic matter and low nutrient levels. Provides an abundant source of organic matter and soil building components.

Item # PROGAN Wgt: 50 lbs 40/pallet



VERMONT MULCH CO.



Hemlock: Strong reddish tones in an all natural product. Not enhanced. A very aromatic mulch.



Fragrant Forest: Mostly pine, supplemented with spruce and Fir. The aroma will transport you to the tranquil forest of the Northeast.



Dark Bark: All the species of Fragrant Forest, yet aged longer. This mulch breaks down into organic matter more rapidly and is a dark brown.



Cedar: The most persistent in the environment. Cedar is proven to be the mulch most resistant to artillery fungi. Light brown in color.



Hardwood Mulch: A blend of mixed Northeast hardwood bark aged to create a deep, dark brown mulch.



Colorfast Black: This is our color enhanced mulch in Black. Made with 100% all natural forest products. This product carries a one year GUARANTEE



Colorlast Brown: This is our color enhanced mulch in Brown. Made with 100% all natural forest products. This product carries a one year GUARANTEE to retain its color.



Colorlast Red: This is our color enhanced mulch in Red. Made with 100% all natural forest products. This product carries a one year GUARANTEE to retain its color.



Playground: 100% all natural pine chips used under outdoor playground equipment and on informal pathways. Now ASTM certified.

SOIL AMENDMENTS

PERLITE -Lightweight perlite provides excellent aeration and moisture retention when blended with other soil media. Perlite supports root growth and retains nutrients which it releases for superior plant growth.

Available size: SUPER COARSE 4 cu.ft. Item PERLI004* Wgt:20 lbs. 33/pallet

VERMICULITE -Lightweight vermiculite provides aeration and moisture retention.

Available sizes:

FINE GRADE	4 cu.ft.	Item VERMF004*	Wgt: 20 lbs.	33/pallet
MEDIUM GRADE	4 cu.ft.	Item VERMI004*	Wgt: 20 lbs.	33/pallet
COARSE GRADE	4 cu.ft.	Item VERMC004*	Wgt: 20 lbs.	33/pallet

PEAT MOSS

CANADIAN PEAT MOSS

Partially decomposed product with large cell structure which acts like a sponge, retaining moisture and helping to prevent leaching of fertilizer. OMRI Listed

FAFARD PEAT MOSS

Available sizes:

3.8 cu.ft.	Item #PEATFA04*	Wgt: 56 lbs.	30/pallet
2.2 cu.ft.	Item #PEATFA02*	Wgt: 28 lbs.	50/pallet
1 cu.ft.	Item #PEATFA01*	Wgt: 14 lbs.	100/pallet

LAMBERT PEAT MOSS

Available sizes:

3.8 cu.ft.	Item #PEATLA04*	Wgt: 56 lbs.	30/pallet
2.2 cu.ft.	Item #PEATLA02*	Wgt: 28 lbs.	50/pallet
1 cu.ft.	Item #PEATLA01*	Wgt: 14 lbs.	100/pallet

** We will special order 5.5 cu.ft. peat moss - please call **



PROFESSIONAL GERMINATING MIXES

Pro-Mix BX

A general purpose peat based growing medium for greenhouse se and trans plant applications. It has the benefits of added vermiculite for improved nutrients availability and a perlite content providing limited but proper drainage capacities.

Available size: 3.8 cu.ft Item #PSPMBX04



Pro-Mix BX with Mycorrhizae

A general purpose peat based growing medium with mycorrhizae that is light-weight, low bulk-density with a high water-holding capacity. The mycorrhizae improves fertilizer uptake and increases plant's resistance to stresses.

Available size: 3.8 cu.ft.

Item #PSPMMY04



Lambert LM-2 Germination Mix

Canadian sphagnum peat with micro and macro nutrients, it also has water retention properties. It's formulated for the germination of seeds that require more moisture.

Available size: 3.8 cu.ft.

Item #PSLALM204



Lambert LM-3 General Purpose Mix

A general purpose mix with excellent aeration, high water retention, and good drainage. It contains macro and micro nutrients. Uniform plant growth can be expected.

Available size: 3.8 cu.ft.

Item #PSLALM304



Lambert LM-8 Bark Mix

Coarse fibered Canadian sphagnum peat moss blended with composted Canadian fir bark. A media that provides weight for container grown crops that tend to be top heavy. It's pH adjusted and mixed with a fertilized charge.

Available size: 3 cu.ft.

Item #PSLALM803



Lambert LM-18 Germination Mix

Composed of fine peat, fine perlite, limestone and wetting agent that will support an effective and uniform germination. Ideal for germination trays and to start cuttings. Available size: 3 cu.ft. Item #PSLAG1803



PROFESSIONAL MIXES

SUNSHINE MIX # 4



Contains: Canadian Sphagnum Peat Moss, Coarse Perlite, Dolomite Lime, Long-Lasting Wetting Agent, RESILIENCE

Crop:

- Hanging Baskets
- Foliage Plants
- Cultivation
- Bedding Plants
- Hemp Perennial

Usage:

- Floriculture

SUNSHINE MIX #4 NATURAL & ORGANIC



Contains: Canadian Sphagnum Peat Moss, Coarse Perlite, Dolomite Lime, RESILIENCE

Crop:

- Hanging Baskets
- Foliage Plants
- Cultivation
- Bedding Plants
- Hemp Perennial

Usage:

- Natural & Organic



OMRI-Listed Organic Growers Potting Mix

Need to transplant? Organic Growers Potting Mix is perfect for potting plants. We mix OMRI-Listed, Organic Coconut byproducts and other OMRI-Listed Organic materials to produce this soil. Great for all varieties of indoor and outdoor potted gardens. As one of Earth's friendliest soils, Organic Growers Potting Mix helps curb climate change by sequestering more stable carbon in your garden than compost-and-peat-based products. Our products are peat-free, because peat naturally scrapes carbon from the air and moves it into the ground, in a stable form. Our products also protect watersheds by retaining nutrients and reducing their presence in runoff. Contains 2-4 times the organic content of compost. All natural and made from renewable resources. All our products sequester carbon to curb climate change and help reduce your use of water.

Made in Vermont.

Ingredients: Coir, Gypsum, Sustane 8-4-4, Lime, Phosphate Rock, Natural Nitrate Of Soda, Mycorrhizae. Available in: 2 cu. ft., 1 cu. ft., and 10 qt. bags.



OMRI-Listed Organic Seed Starter

A great beginning for any planting or gardening project. We mix OMRI-Listed, Organic Coconut byproducts and other OMRI-Listed Organic materials to produce this soil. The other organic materials provide the proper nutrient balance and pH to start seeds. Great for indoor and outdoor gardening. As one of Earth's friendliest soils, Organic Seed Starter helps curb climate change by sequestering more stable carbon in your garden than peat-and-compost-based products. Our products are peat free, because peat naturally scrapes carbon from the air and moves it into the ground, in a stable form. Our products also protect watersheds by retaining nutrients and reducing their presence in runoff. This has a 45-day, time-released organic fertilizer. Contains 2-4 times the organic content of traditional compost.

Made in Vermont.

Ingredients: Coir, Gypsum, Sustane 8-4-4, Lime, Phosphate Rock, Natural Nitrate Of Soda, Mycorrhizae. Available in: 2 cu. ft., 1 cu. ft., and 10 qt. bags.



OMRI-Listed Organic Coir Block

Vermont Organics' OMRI-Listed Coconut Coir is an ideal soil enhancer. Use it as a fine-textured mulch. Add fertilizer to make a complete soil. Add it directly to soil to lighten it. Plus, it holds 10 times its weight in water. Coir in the soil sequesters carbon from the atmosphere for up to 40 years. All natural and renewable, coir works for all plant types. Effective as a peat moss substitute, with a lower carbon footprint and lower environmental impact than peat. Reduces risk of root diseases and helps aerate soil. One 11-lb coir block expands to 2-plus cu. ft. of organic growing material.

Available to purchase as a block, on a full skid (app. 200 blocks), or in a container (app. 4,400 blocks).

Biochar Blend



Biochar is a type of charcoal or activated carbon that is especially good at supporting plant growth. Ours uses invasive buckthorn for feedstock and our biochar kiln is fired without the use of fossil fuels. We add our organic fertilizer, coffee skins to charge the biochar with nutrients and add bio-available carbon to the soil. This results in a product that is ready to be added to your soil without mixing biochar and fertilizer yourself. Holds extra nutrients and moisture. Helps curb climate change by increasing carbon content of soil and sequestering carbon for hundreds of years. Remember: Keep carbon in the ground, where it belongs. Protects watersheds by retaining your nutrients and reducing their presence in runoff. Encourages growth of mycorrhizae. Lightens heavy clay soils

Made in Vermont.

Ingredients: Coffee Skins, Biochar
Available in: 1 cu. ft. bags.

DECORATIVE STONE

Adds a decorative touch to any lawn or garden. Provides an attractive contrast to green areas, while controlling erosion and holding moisture.



GARDENSCAPE RIVER ROCK/PEA PEBBLES



Beautiful earthy colors ranging from light beige to dark brown.

River size: ½ cu.ft. Item #STGR50 5/8" Wgt: 50 lbs.**

Pea size: ½ cu.ft. Item #STPG50 3/8" Wgt: 50 lbs.**

WHITE MARBLE CHIPS



Brilliant white stone.

½ cu.ft. Item #STMAS50 1/2" Wgt: 50 lbs.**

½ cu.ft. Item #STVTWH40 3/4" Wgt: 40 lbs.*

½ cu.ft. Item #STMAL50 1" Wgt: 50 lbs.**



OTHER STONE AVAILABLE-CALL FOR PRICE AND COLORS

MISCELLANEOUS

GARDEN STAKES

Hardwood plant stakes: straight, strong, and pointed.

For all types of medium and heavy staking.

3 ft. Item #GDNSTK253 Wgt: 25 lbs. 25/bundle

4 ft. Item #GDNSTK254 Wgt: 25 lbs. 25/bundle

5 ft. Item #GDNSTK255 Wgt: 30 lbs. 25/bundle

6 ft. Item #GDNSTK256 Wgt: 30 lbs. 25/bundle

PLAY SAND

Available sizes:

ALL PURPOSE PLAY SAND

Item #ICKSSA.5

Wgt: 50 lbs.

WASHED PLAY SAND

Item #ICKSPL.4

Wgt: 40 lbs.

LIME EFFICIENCY

All lime is not the same. While all lime contains calcium, an essential element for the formation of cell walls, and all lime neutralizes acid in the soil, the "reaction time" can be anywhere from 2 weeks to 25+ years, depending on the form of the lime. The determining factor in how quickly a lime product will act is how finely the lime is ground. (The finer the lime, the quicker it acts.) This is determined by passing the product through screens with openings specified by a U.S. standard. The screen "size" is the openings per inch.

With pelletized lime, it is sized before the pelletizing process. This process binds the lime together into pellets using an organic binder for easy, dust-free spreading. Once applied, the lime is quickly broken down into its original form by moisture. With pelletized lime, the reaction time is determined by the form of the lime prior to pelletizing, which means that not all pelletized limes behave the same. For example, Soilsweet is pulverized lime before pelletizing, while GMF calcium is made from "superfines".

Use the two charts below as a guide to how quickly the various lime products we offer will act.

PRODUCT	% OF PRODUCT PASSING:					The amount of material required to change pH depends on
SCREEN SIZE	20 MESH	40 MESH	60 MESH	100 MESH	200 MESH	
TIME TO REACT	25 YEARS	2 YEARS	1 YEAR	8 WEEKS	2 WEEKS	
SOILSWEET GRANULAR LIME	98%		55%	30%		
SOILSWEET PULV. LIME	90%	75%	65%	50%		
SOILSWEET PELL. LIME	90%	75%	65%	50%		
GMF PELLETIZED LIME	98%		94%	75%	50%	
LEE HYDRATED LIME	99%		96%	95%	75%	

the type of soil. There are three basic soil types - sandy, loam and clay. Sandy soils dry out rapidly and clay soils do not absorb water, but puddle and run off.

To **raise** pH 1 point by broadcast spreading add:(per 1000 sq.ft.)

<u>Material</u>	<u>Sandy Soil</u>	<u>Clay Soil</u>
Dolomite lime	100#	200#
Hydrated lime	50#	100#
Neutralime	.16 oz	.18 oz
Pelletized Lime	100#	200#

To **lower** pH 1 point by broadcast spreading add:(per 1000 sq.ft.)

<u>Material</u>	<u>Sandy Soil</u>	<u>Clay Soil</u>
Sulfur	10#	20#
Aluminum Sulfate	70#	140#
Gypsum	50#	100#

LIME/GYPSUM PRODUCTS

PULVERIZED LIME



Ideal for vegetable and flower gardens. Fast-acting, finely-ground particles that neutralize soil acidity. A natural source of calcium and magnesium that promotes healthy bacterial action.

Item #LISDPUL40* Wgt: 40 lbs. 80/pallet

PELLETIZED LIME

50% of the GMF pelletized lime passes through a 200-mesh screen. Not messy-works like fertilizer. Can be spread in either a drop spreader or a rotary spreader.



Item #LISDPEL40 - Hi MAG Wgt: 40 lbs. 70/ pallet

Item # LIGMPE40- Hi Cal Wgt: 40 lbs. 63/ pallet



GRANULAR LIME

Extended-release coarse granules that enhance fertilizer effectiveness. Supplies calcium and magnesium that neutralizes. Soil acidity over time..

Item # LISDGRA40 Wgt. 40 lbs. 80/ pallet

ATHLETIC FIELD MARKER

Superior quality ground marble marking material designed for use on all types of athletic fields.

Item #LIGEPR50 Wgt: 50 lbs. 56/pallet

GYPSUM



Calcium sulfate with 20-23% available calcium and 15-19% sulfur in a pelleted form. Loosens heavy clay soils, aids soil aeration and water percolation. Leaches out excessive amounts of sodium and magnesium. Counteracts winter salt damage.

Item # GYPELL50 Wgt: 50 lbs. 50/ pallet

Item # LISDGYP40 Wgt: 40 lbs. 70/ pallet

NEUTRALIME DRY

Balances soil pH within 6-10 days of application - with the added plus of longer control, up to 18 weeks. Application rate is 40# per acre. Will change pH 1 point.

Item #LINEUTRA40 Wgt: 40 lbs. 50/pallet

Item #LINEUTRA10 Wgt: 40 lbs. 4/10# bags/case

SPECIALTY FERTILIZERS

ALUMINUM SULFATE (17% AL) - For acid-loving plants like azaleas and rhododendrons.

Available size: 50 lb.

Item #ALUMS50

AMMONIUM SULFATE 21-0-0 (24% S) - Recommended for blueberries.

Available size: 50 lb.

Item #21000050

CALCIUM AMMONIUM NITRATE 27-0-0 (8% CA) - Contains equal parts

of fast acting nitrate-nitrogen and more slowly available ammonium-nitrogen.

Available size: 50 lb.

Item #CAN50

CALCIUM NITRATE 15.5-0-0 (19% CA) - Ideal source of water-soluble

nitrogen and calcium for irrigational purpose. Available in GREENHOUSE GRADE.

Available sizes: 50 lb.

Item #CN50

GREENHOUSE GRADE 50 lb.

Item #CN50GHG

J R PETERS FERTILIZER

ALL PURPOSE	20-20-20	Wgt: 25 lbs.	Item #JRP2020225
BERRY MIX	25-9-17	Wgt: 25 lbs.	Item #JRP2591725

MAGNESIUM SULFATE (EPSOM SALTS) (9.85% MG, 12.9% S)

Supplies a more immediate response for magnesium deficiency correction than dolomitic liming methods.

Available size: 50 lb. (Organic) Item #EPSSOMRI50*

MILORGANITE 6-2-0

Granular, free-flowing organic source of nitrogen, phosphorus, and iron. Does not burn, contains no chemical salts. Helps to improve the soil's ability to hold moisture and nutrients.

Available size: 50 lb.

Item #MILORG36

SULFUR 90%

Water degradable elemental sulfur use. Lowers pH of soils. (See page 26) **Available sizes: 50 lb. (Tiger Organic) Item #SUL50***

SUL-PO-MAG (K-MAG) 0-0-22 (11Mg 22S)

A naturally occurring combination of potassium, magnesium, and sulfur.

100% water-soluble, essentially chloride-free (less than 2.5%).

Available sizes: 50 lb.

Item #00002250

25 lb.

Item #00002225

50 lb. (Organic)

Item #SPMORG50*

TRIPLE SUPER PHOSPHATE (0-45-0)

Granular for easy application, ideal for lawns, trees, and vegetables.

Available sizes: 50 lb. Item #TRIPLE50

Specialty Turf Fertilizer

ACELEPRYN WITH FERTILIZER

Use anytime-spring thru summer

An insecticide with no-phos fertilizer (0-0-5 or 22-0-7) for fertilization and grub control in turfgrass and landscape ornamentals.

Contains 0.067% Chlorantran-iliprole.

GCINGACELO -Covers 9,600 sq.ft.

GCINGACELE -Covers 9,600 sq.ft.

• **Lebanon Pro 25-0-8 40% SCU Trimec (Weed 'N' Feed)**

- An economical combination fertilizer and weed control product with NPK of 25-0-8
- For residential, commercial and general turf use
- 1.0 Trimec for control of broadleaf weeds
- 40% SCU (sulfur coated urea) for controlled release of nitrogen
- Muriate of potash which stimulates the growth of strong cells and provides disease

resistance by promoting thickness of the outer cell walls

Please see label for specific information on pests controlled, application rates, timing and use

LEBFWE050—Covers up to 15,000 sq. ft.

ProScape 22-0-6 40% MESA .15 Dimension (Crabgrass Preventer)

- A premium combination fertilizer and weed control product with an NPK of 22-0-6
- For residential, commercial and general turf use
- .15 Dimension pre-emergent for control of crabgrass and other weeds
- 40% MESA for slow release of nitrogen with immediate green up without surge growth
- Muriate of potash which stimulates the growth of strong cells and provides disease re-

sistance by promoting thickness of the outer cell walls

Please see label for specific information on pests controlled, application rates, timing and use

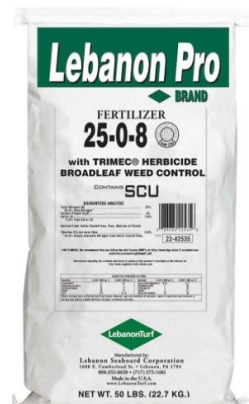
PREEN BROADLEAF WEED CONTROL

Controls a wide range of lawn weeds including dandelion, chickweed, plantain, and many others commonly found in home lawns.



PREEN GARDEN WEED PREVENTER

Prevents most weeds from germinating in flower and vegetable gardens, in ground covers, and around trees and shrubs. Will not kill existing weeds, but





ICE & SNOW PRODUCTS



CALCIUM CHLORIDE

Two to five times faster than rock salt and ice melt blends.

Effective down to -30 F. Safe for lawns and concrete when used as directed.
Does not leave white residue like other salts.

Available sizes 50 lbs. Item # ICCA050 45/pallet

50 lbs. Item # ICCPEL050 45/pallet



MAGNESIUM CHLORIDE

Works on contact, and cuts through ice. This has great melting power, but is gentle on concrete, lawn, and plants. Effective to -25°F.

Available sizes:

Flakes 50 lbs. Item # ICMC050 45/pallet

Pellet s 50 lbs. Item # ICMCP050 45/pellet

ROCK SALT

Least expensive way to melt snow and ice. Effective melting temperature 20°F.

Available sizes: 50 lb. Item #ICRSGMF50

49/pallet

25 lb. Item #ICRSGMF25

100/pallet

ROCK SALT PLUS

Salt that is treated to increase the rate at which the salt begins working, and increase the penetration into ice and snow pack. This can be used at lower temperatures, and will prevent stockpiles from freezing or clumping. Helps protect equipment from corrosion. Effective to -10 F.

Available size: 50 lb. Item #ICRSGMFP50

50/pallet



TUBE-TRAC SAND

An ideal vehicle weight stabilizer in 60 lb. tubes that fit into trunks of cars and beds of trucks. Sand can be used from the re-sealing tube bag to aid traction in an emergency situation

Available size: 60 lb. Item #ICTS060 42/pallet

PET SAFE ICE MELTER

A 100% salt free, non-toxic formula that does not generate heat and will not burn or irritate paws. It is an environmentally friendly formula that is safe for concrete and asphalt. Melts down to -15* degrees.

Available in 20 lbs. Item# ICPETSAFE20 120/pallet

