

Product Guide



NEXT-DAY DELIVERY

Professional Turfgrass, Landscape and Erosion Control Products
Detroit Area (800) 482-3130 • Grand Rapids Area (877) 744-6657 • rhinoseed.com

"The Rhino® Way"



Why Buy Rhino?

Outstanding Service and Quality Products

"The Rhino® Way"

The Rhino family is committed to you and your success. You can expect top quality landscape and lawn & garden products. We will always provide you with the best service in the industry. We promise to be innovative and give you the tools and knowledge to get your job done right, with satisfaction guaranteed.

- ✓ High Quality Grass Seed
- ✓ Custom Grass Seed Mixing
- ✓ Variety of Landscaping Products
- ✓ Competitive Pricing
- ✓ Next Day Delivery
- ✓ No Minimum Order
- ✓ No Delivery Fee or Fuel Surcharge
- ✓ MDOT Approved Vendor
- ✓ Michigan Based, Family Owned and Operated for 88 Years



- Erosion Control Blankets
- EZ-Straw® Products
- Hydromulches
- Tackifiers & Dye
- Fertilizer
- Field Seeds

- Native Seeds
- Grass Seed Varieties & Custom Mixes
- Wildflower Seed
- Construction Fabric
- Silt Fencing

- Edging
- Earthway Spreaders
- Great Rakes
- Herbicides
- Insecticides

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Issued 2018

Grass Seed Mixes

Grass Seed Mixes

Mixes 5-7 lbs. per 1,000 sq. ft.

Sunny Mix

- 20% Kentucky Bluegrass
- 20% Creeping Red Fescue
- 20% Turf Type Perennial Ryegrass
- 20% Turf Type Perennial Ryegrass
- 10% Elite Kentucky Blue
- 10% Elite Kentucky Blue

School Lawn Mix

- 30% Kentucky Bluegrass
- 25% Turf Type Perennial Ryegrass
- 25% Creeping Red Fescue
- 10% Elite Kentucky Blue
- 10% Elite Kentucky Blue

Suburban Mix

- 20% Elite Kentucky Blue
- 20% Elite Kentucky Blue
- 20% Kentucky Bluegrass
- 20% Variety Creeping Red Fescue
- 20% Turf Type Perennial Ryegrass

Select Lawn Mix

- 15% Elite Kentucky Blue
- 15% Elite Kentucky Blue
- 15% Elite Kentucky Blue
- 15% Elite Kentucky Blue
- 15% Elite Fescue
- 15% Turf Type Perennial Ryegrass
- 10% Turf Type Perennial Ryegrass

Premium Sports 80/20 Mix

- 20% Elite Kentucky Bluegrass
- 20% Elite Kentucky Bluegrass
- 20% Elite Kentucky Bluegrass
- 20% Elite Kentucky Bluegrass
- 20% Turf Type Perennial Ryegrass

Sports Turf 50/50 Mix

- 25% Elite Kentucky Bluegrass
- 25% Elite Kentucky Bluegrass
- 25% Turf Type Perennial Ryegrass
- 25% Turf Type Perennial Ryegrass

Economy Mix

- 40% Creeping Red Fescue
- 30% Annual Rye
- 20% Perennial Ryegrass
- 10% Kentucky Bluegrass

Hydro Mix

- 50% Turf Type Perennial Ryegrass
- 30% Creeping Red Fescue
- 20% Kentucky Bluegrass

3-3-3 Sun/Shade Mix

- 34% Creeping Red Fescue
- 33% Kentucky Bluegrass
- 33% Turf Type Perennial Ryegrass

Shady Mix

- 35% Creeping Red Fescue
- 35% Variety Chewings Fescue
- 20% Turf Type Perennial Ryegrass
- 10% Poa Trivialis

Supina Shady Mix

- 30% Variety Creeping Fescue
- 30% Variety Chewings Fescue
- 20% Turf Type Perennial Ryegrass
- 10% Poa Trivialis
- 10% Poa Supina

Slow Grow Lawn Mix

- 40% Variety Chewings Fescue
- 35% Creeping Red Fescue
- 25% Variety Hard Fescue

Low Maintenance Meadow Mix

- 50% Variety Chewings Fescue
- 30% Variety Hard Fescue
- 20% Sheep Fescue

Horse Pasture Mix

- 25% Tetraploid Perennial Ryegrass
- 20% Vernal Alfalfa
- 20% Orchard Grass
- 20% Kentucky Bluegrass
- 15% Timothy

Rhino Class A

- 40% Creeping Red Fescue
- 30% Turf Type Perennial Ryegrass
- 30% Kentucky Bluegrass

Pasture Mix*

- 25% Alfalfa
 - 20% Med Red Clover
 - 20% Tetraploid Perennial Ryegrass
 - 15% Timothy
 - 10% Alsike Clover
 - 10% Orchardgrass
- *25 Lbs Per Acre

Rhino Deer Forage*

- 35% Alsike Clover
 - 20% Ladino Clover
 - 20% Medium Red Clover
 - 20% Rape
 - 5% Yellow Blossom Sweet Clover
- *25 Lbs. Per Acre

Wetland Mix*

- 25% Alsike Clover
 - 25% Red Top
 - 25% Timothy
 - 25% Birdsfoot Trefoil
- *25 Lbs Per Acre

Highway Class A

- 40% Creeping Red Fescue
- 30% Perennial Ryegrass
- 30% Kentucky Bluegrass

Highway Roadside

- 50% Perennial Ryegrass
- 35% Creeping Red Fescue
- 15% Kentucky Bluegrass

Rhino Tuff Stuff Mix

- 70% 3-Way Turf Type Tall Fescue Blend
- 20% Turf Type Perennial Ryegrass
- 10% Kentucky Bluegrass

Improved MDOT Mixes (Below), Are Mixed As Needed, Call For Availability

TDS Mix (Dry Sandy)

- 45% Creeping Red Fescue
- 25% Perennial Ryegrass
- 25% Hard Fescue
- 5% Kentucky Bluegrass

TGM Mix (Med-Heavy)

- 40% Creeping Red Fescue
- 30% Hard Fescue
- 20% Perennial Ryegrass
- 10% Kentucky Bluegrass

THM Mix (Loam-Heavy)

- 50% Creeping Red Fescue
- 30% Kentucky Bluegrass
- 20% Perennial Ryegrass

THV Mix (Heavy Soil)

- 45% Creeping Red Fescue
- 30% Perennial Ryegrass
- 15% Kentucky Bluegrass
- 10% Fults Salt Grass

CR-Cereal Rye

- 100% Winter Rye

Tuf Mix (Urban Freeway)

- 40% Creeping Red Fescue
- 20% Perennial Ryegrass
- 20% Hard Fescue
- 10% Kentucky Bluegrass
- 10% Fults Salt Grass

TSM Mix (Temporary Seeding)

- Bag Size: 50 Lbs.
Seeding Rate: 2.3-4.6 Lbs. Per 1,000 Sq. Ft., 100 Lbs. Per Acre
- 50% Perennial Ryegrass
 - 50% Spring Oats

ES Mix (Environmental)

- Bag Size: 50 Lbs.
Seeding Rate: 54 Lbs. Per Acre Of Pure Live Seed (PLS)
- 24 Lbs. Timothy
 - 11 Lbs. Perennial Ryegrass
 - 9 Lbs. Big Blue Stem
 - 4 Lbs. Switchgrass
 - 3 Lbs. Indiangrass
 - 3 Lbs. Little Blue Stem

GUARANTEED NEXT DAY DELIVERY

Rhino Turfgrass Information

Bluegrasses (1,250,000–1,500,000 seeds per lb.)

- Kentucky Bluegrass is one of the best-adapted and most widely used types of turfgrass in the Midwest.

The strengths of Kentucky Bluegrass:

1. A strong spreading growth habit due to underground rhizomes.
2. Very good wear tolerance and recovery, again due to underground rhizomes.
3. Excellent color, density, texture and appearance of turf.
4. Many excellent varieties are available for use by consumers.



- The biggest weakness of Kentucky Bluegrass is its slow rate of germination and establishment. Typically it takes 3 to 4 weeks to get a good stand of seedling turf. Also, bluegrass tends to perform poorly during the hot summer months, when growth slows down and it is subject to summer “patch” diseases.
- Bluegrasses are best used in blends and mixtures. By blending different varieties, a maximum genetic diversity can be obtained. Mixing bluegrass with improved (or turf-type) perennial ryegrass also expands the genetic diversity. Bluegrass blends should be planted at 2-3 lbs. per 1,000 sq. feet. Blue/Rye mixes should be seeded at 4-7 lbs. per 1,000 sq. ft. Higher seeding rates result in quicker establishment and better weed control, but extra care has to be taken because ‘too high’ can lead to a weaker stand of turf susceptible to disease pressure. Early fall seeding is ideal, with spring seeding second best.
- Normally fall fertilization should be emphasized in managing bluegrass turf. Light fertilizer application in late August and September followed by a heavier application of fertilizer in October is a good guideline. Spring applications should be light to slow down excessive top growth. Bluegrass turf should receive 3-5 lbs of nitrogen per 1,000 sq. ft. per year.
- WHAT DOES THE DESIGNATION “ELITE” MEAN FOR KENTUCKY BLUEGRASS?

A Kentucky bluegrass variety can only be designated as “Elite” if it possesses these five characteristics:

1. Top quality turf scores
2. Very dark green color
3. Fine leaf texture
4. Excellent density
5. Excellent resistance to the major turf diseases



Perennial Ryegrass (250,000–300,000 seeds per lb.)

- Perennial Ryegrass is an extremely popular turfgrass for Michigan and the Midwest. This most versatile of grasses has a place in most premium lawn seed mixtures.

The strengths of improved Perennial Ryegrass are as follows:

1. Excellent germination and establishment
2. Excellent wear tolerance
3. Exceptional color, leaf texture, and appearance
4. Very good disease resistance
5. Compatible with bluegrass and fine fescue
6. Excellent for overseeding thin or damaged turf

- Although Perennial Ryegrass is an excellent turfgrass, it does have a few weaknesses. Namely, it does have bunch-type growth habits, has only fair shade tolerance and doesn't perform well under low fertility. There are new varieties now available that have lateral strands.
- Perennial Ryegrass can be used alone or in an improved blend, or it can be mixed with Kentucky bluegrass and fine fescue. A bluegrass-ryegrass mixture is particularly desirable because they complement each other so well on color, disease resistance, and traffic tolerance. Mixes with fine fescue are good for lower maintenance conditions.
- Perennial Ryegrass can be seeded anytime but late summer to early fall is the best time, with spring being second best. Seeding rates from 5-7 lbs. per 1000 square feet are recommended with the higher rates useful for the quickest possible establishment.
- Fall fertilization should be emphasized in managing Perennial Ryegrass turf. Light applications in late August and September followed by a heavy application of complete fertilizer in October is a good guideline. Spring applications should be lighter to avoid excessive spring growth. Perennial Ryegrass is often “stemmy” in May as the emerging seed heads grow through the turf and a light nitrogen application then will help the turf grow out of this condition. Turf-type Perennial Ryegrass turf should receive 3-5 lbs. of nitrogen per 1000 sq. ft. per year for optimum results.

Rhino Turfgrass Information

Fine Fescues (400,000–700,000 seeds per lb.)

- The Fine Fescues are widely used in Michigan and the upper Midwest for shady areas and for lower maintenance situations. There are four sub species of Fine Fescue that are used as turfgrass. They are:
 1. Creeping Red Fescue – the most commonly used due to its creeping growth habit and better establishment.
 2. Chewings Fescue – The best overall turf type due to its attractive fine-leaved appearance and ability to tolerate lower cutting heights.
 3. Hard Fescue – Rapidly increasing in popularity due to its excellent heat and drought tolerance plus superb performance on low maintenance, acidic lawns.
 4. Sheep Fescue – Useful for only the lowest of maintenance in unmaintained areas.
- Creeping, Chewings, and Hard Fescue are usually mixed with Kentucky Bluegrass and Perennial Ryegrass to provide high quality and versatile seed mixtures that are adaptable to any situation.
- All Fine Fescues are considered medium in germination time (2-3 weeks), and establishment (approximately halfway between bluegrass and ryegrass). The normal seeding rate is 5-6 lbs. per 1000 square feet. Fine Fescue seedlings are sensitive to traffic and wear so avoid use until they're established.
- Fine Fescues grow more slowly and require about half the nitrogen of bluegrass or ryegrass. They also like acid soils and don't need lime. Light fertilizer applications in the fall and spring are best. Keep summer applications of fertilizer and water to a minimum.

Turf Type Tall Fescue (200,000–250,000 seeds per lb.)

- The improvement of Turf Type Tall Fescue has played a major role in the upgrading of Midwestern Turf. Until just 20 or so years ago, the old pasture grass called "Kentucky 31" (Developed in Kentucky in 1931) was the major variety. Advances in breeding have since made KY31 obsolete for improved turf and we now have many great new varieties to choose from. KY31 and Fawn varieties are still used in erosion control situations where aesthetics are not a factor.
- These turfgrasses have the best heat and drought tolerance of any cool season grass. They will remain green and growing long after ryegrass, bluegrass, or fine fescue has gone dormant. Also, improved tall fescues require less fertilizer and water than other species and have better adaptability to low fertility and high or low pH soils. Tall fescue is also a very tough grass and has excellent wear tolerance once well established.
- Tall Fescue is great on it's own but can also be mixed with less aggressive bluegrasses on a 90% tall fescue, 10% bluegrass basis. If ryegrass is desired in the mix, use a 70% - 20% - 10% mix of tall fescue, perennial ryegrass, and Kentucky bluegrass respectively.
- Tall Fescue does have weaknesses. It is not as attractive as Kentucky Bluegrass or Perennial Ryegrass, and it does not spread quickly like bluegrass. Also, in hot humid areas it may get Pythium or Brown Patch Disease.
- A seeding rate of 6-10 lbs per 1,000 square feet is recommended for tall fescue. Establishment time is quite rapid (i.e. 2-3 weeks), but avoid putting traffic on the new stand for several months at least.
- Fall fertilization is excellent for tall fescue. It helps recover the turf from any summer damage and strengthens the turf for the winter and spring months. Keep spring fertilization low to avoid too rapid growth, and fertilize only if needed in the summer.

Bentgrass (6,000,000–7,000,000 seeds per lb.)

- Bentgrass is a specialty turfgrass in that it is generally used for golf course settings . . . greens, tees, and fairways. It is a very 'high maintenance' type of grass. It requires special management practices as it is more susceptible to disease pressure, and needs to be maintained (cut) very short. It is not recommended for lawn use.
- Bentgrass is a perennial grass that spreads by rhizomes and stolons. It is not tolerant of dry conditions, nor shaded environments. Thus, again, it is not recommended for lawn use.
- The seeding rate for bentgrass is 1/2 to 2 lb per 1,000 square feet as the seed size is very small. It is never recommended to mix bentgrass with other types of grass for 'lawn use'.
- 'Redtop' is a type of bentgrass that is used primarily in erosion or some pasture mixes for wet or low land applications. It is normally not used in premium lawn or turfgrass situations.

Field Seeds/Native Seeds

- We will custom mix or blend seed to your site specifications and in most cases deliver it the next day.
- Some native species and wetland mixes are mixed off site and shipped in. Call us with the specifications per job site, and we will help with pricing and availability.
- Please call for current information – as pricing and availability may change.

VARIETY	GERMINATION	SEEDING RATE	COLOR		
Field Grass					
Bromegrass	14 Days	15-20 lbs. per Acre	Grayish white		
Tetraploid Ryegrass	7-10 Days	15-30 lbs. per Acre	Dark Green		
Orchardgrass	21 Days	20-30 lbs. per Acre	Medium-Dark Green		
Rape Seed	3-7 Days	20 lbs. per Acre	Medium Green		
Red Top	10 Days	10 lbs. per Acre	Medium Green		
Timothy	10 Days	6 lbs. per Acre	Medium Green		
Winter/Cereal Rye	7-10 Days	112 lbs. per Acre	Medium green		
Native Grasses (Available Special Order)					
Big Blue Stem	20-25 Days	18-20 lbs. per Acre			
Blue Gramma	20-25 Days	12-14 lbs. per Acre			
Buffalo Grass	14-21 Days	20-40 lbs. per Acre			
Canadian Wild Rye	25-30 Days	14-16 lbs. per Acre			
Forage Sorghum	25 Days	25 lbs. per Acre			
Indian Grass	30 Days	18-20 lbs. per Acre			
Little Bluestem	30 Days	30 lbs. per Acre			
Sand Drop	15-20 Days	18-20 lbs. per Acre			
Side-Oats Gamma	15-20 Days	12-14 lbs. per Acre			
Switch Grass	15-20 Days	20 lbs. per Acre			
Legumes					
Alsike Clover	7-10 Days	6 lbs. per Acre	White Pinkish Blossom		
Alfalfa	21 Days	15-20 lbs. per Acre	Medium green /White-Purple Blossom		
Ladino Clover	14 Days	6 lbs. per Acre	White Blossom		
Med. Red Clover	21 Days	10-12 lbs. per Acre	Bright Red Blossoms/Dark Leaves		
Trefoil, Birdsfoot	12 Days	6-8 lbs. per Acre	Yellow Blossom		
White Dutch Clover	7 Days	6 lbs. per Acre	White Blossom		
Y.B. Sweet Clover	14 Days	10-15 lbs. per Acre	Yellow Blossom		
Crownvetch					
Penngift/Emerald	30 Days	1 lb. per 1,000 sq. ft.	Purple Blossoms		
Wildflower Mixes					
		SEEDS PER/LB.	COLOR	1-10 SHADE	
Sunny	14-30 Days	235,000	8-12 lb. per Acre	Very Colorful	4
Partial Shade	14-30 Days	435,000	8-12 lb. per Acre	Very Colorful	6
Midwest	14-30 Days	495,000	8-12 lb. per Acre	Very Colorful	4
Rhino Low Grow/ Low Profile	14-30 Days	625,000	8-12 lb. per Acre	Very Colorful	4
Pollinator Mix	14-30 Days	300,000	10-12 lb. per Acre	Very Colorful	4
Bentgrass (Other Varieties Special Order)					
Penncross Crossbow	10-12 Days	6,056,075	1-2 lb. per 1,000 sq. ft.	Medium Green	5
Pure Distinction	10-12 Days	7,032,058	1-2 lb. per 1,000 sq. ft.	Medium Green	5

Wildflower Seed

Rhino Sunny Wildflower Mix

Over 30 types of Annuals and Perennials provide excellent color and variety. 18"-36" tall. Seed at 10-12#/Acre

Seed varieties:

Columbine, mixed
Calendula, mixed
Aster Crego mix
Bachelor Button Blue Siberian
Wallflower
Garland Chrysanthemum
Shasta Daisy
Clarkia Chinese
Chinese Houses
Lance leaf Coreopsis
Plains Coreopsis
Dwarf Plains Coreopsis
Cosmos Mix
Sulfur Cosmos
Chinese Forget Me Not Rocket Larkspur
Sweet William
Purple Coneflower
California Poppy Yellow
Perennial Gaillardia
Annual Gaillardia
Bird's Eyes
Dame's Rocket
Annual Candytuft Mix
Tree Mallow
Spurred Snapdragon
Scarlet Flax
Blue Flax
Alyssum Tall White
Perennial Lupine
Maltese Cross
Evening Scented Stock
Four O'clock Mix
Lemon Mint
Five Spot
Corn Poppy
Mignonette
Gloriosa Daisy
Black Eyed Susan
Scarlet Sage
Catchfly
Marigold Sparky
Nasturtium Mix

Rhino Midwest Wildflower Mix

Mixture designed for our area. Annuals and Perennials, provide brilliant color. Seed at 8-12#/Acre grows 18"-36" tall.

Seed varieties:

New England Aster
Cornflower
Siberian Wallflower
Lance leaf Coreopsis
Plains Coreopsis
Larkspur
Sweet William
Purple Coneflower
Perennial Gaillardia
Annual Gaillardia
Blue Flax
Perennial Lupine
Dwarf Evening Primrose
Corn Poppy
Prairie Coneflower
Clasping Coneflower
Black Eyed Susan
Catchfly

Rhino Pollinator Mix

Designed to attract bees and butterflies. Plant in a full sun area. The annual and perennial mix provide brilliant color with spring through fall blooms. Seed at 10-15#/acre. Grows 24"-72" tall.

Butterfly Milkweed
New England Aster
Siberian Wallflower
Lance Leaf Coreopsis
Cosmos Sensation Mix
Purple Coneflower
California Poppy Orange
Perennial Gaillardia
Lemon Queen
Gayfeather
Sweet Alyssum
Perennial Lupine
Bergamot
Baby Blue Eyes
Evening Primrose
Red Corn Poppy
Purple Phacelia
Yellow Prairie Coneflower
Crimson Clover

Rhino Partial Shade Wildflower Mix

Perennial & Annual Mixture tolerates some shade, provides beautiful color with enough sunlight. Grows 12"-30" tall. Seed at 8-12#/Acre

Seed varieties:

Garden Columbine
Bachelor's Button
Siberian Wallflower
Daisy Chrysanthemum
Clarkia Mix
Lance leaf Coreopsis
Plains Coreopsis
Forget Me Not
Rocket Larkspur
Sweet William
Common Foxglove
Rose Mallow
Baby Blue Eyes
Shirley Poppy

Rhino Low Grow/Low Profile Wildflower Mix

Great performing mix of annuals and perennials. Grows 12"-18" tall. Seed at 8-12#/Acre

Seed varieties:

Bachelor Button dwf.
Siberian Wallflower
Farewell to Spring dwf.
Chinese Houses
Lance Leaf Coreopsis dwf.
Plains Coreopsis dwf.
Chinese Forget Me Not
Sweet William
African Daisy
California Poppy
Candytuft
Blue Flax
Sweet Alyssum
Baby Blue Eyes
California Bluebells
Catchfly

*Exact varieties may change depending on availability.

- Individual Wildflower varieties and/or custom mixes are available... special order.
- Prairie or Meadow Mixes with Fescues or Native Grasses are also available.

Athletic Field Sizes

Golf Course	Dimensions	Sq. Ft.	Acres
Green		4,000-7,000 sq. ft.	
Tee		3,000-8,000 sq. ft.	
Fairway		130,000-260,000 sq. ft.	3-6 acres
Rough		87,000-130,000 sq. ft.	2-3 acres
Football Field			
Field	160x360 ft.	57,600 sq. ft.	1-1/3 acres
Baseball Diamond			
Infield Area	90x90 ft.	8,100 sq. ft.	
Home plate to Left Field		300-360 sq. ft.	
Home plate to Center Field		360-410 sq. ft.	
Home plate to Right Field		300-360 sq. ft.	
Mound to Home Plate		60 ft. 6 in.	
Home Plate to First Base		90 ft.	
Home Plate to Second Base		127 ft. 3-3/8 in.	
Home Plate to Third Base		90 ft.	
Tennis Court			
Regulation	78x36 ft.	2,808 sq. ft.	
Full	120x60 ft.	7,200 sq. ft.	
Soccer Pitch			
Small	195x330 ft.	64,350 sq. ft.	1-1/2 acres
Large	225x330 ft.	74,250 sq. ft.	1-3/4 acres
Rugby Pitch			
	328x226 ft.	4,128 sq. ft.	1-3/4 acres
Hockey Pitch			
Small	301x164 ft.	46,364 sq. ft.	1-1/8 acres
Large	300x180 ft.	54,000 sq. ft.	1-1/4 acres
Cricket Square			
	90x90 ft.	8,100 sq. ft.	
Croquet			
	75x40 ft.	3,000 sq. ft.	
Lawn Bowling			
Minimum	110x110 ft.	12,100 sq. ft.	
Maximum	125x110 ft.	13,750 sq. ft.	

GUARANTEED NEXT DAY DELIVERY

Premium Hydromulches/Tackifiers/Dye

Premium Hydromulches

RHINO GREEN STAR - PAPER MULCH 50# Bale 32/pallet (MLGRNSTR)

NEW DARKER GREEN COLOR! Premium Paper Hydromulch. Clean recycled newsprint dyed green. MDOT approved! Can be used anywhere but works better on flatter ground. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft.

RHINO GREEN STAR PLUS - PAPER MULCH WITH TACK 50# Bale 32/pallet (MLGRNPLS)

NEW DARKER GREEN COLOR! Premium Paper Hydromulch plus tackifier. Clean recycled newsprint dyed green. MDOT approved! Premium grade cold water dispersible organic tackifier premixed at 3% by weight. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft.

RHINO GREEN STAR - PAPER MULCH LOOSE 30# Bale 32/pallet (ML30EASYMULCH)

Premium recycled paper hydromulch in a non-compressed 30# bale. Easy to mix formula for Jet agitated hydroseeders and older tired mechanical systems. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 30# bale covers 726-870 sq. ft.

MAT FIBER (GREEN LABEL) 50# Bale 40/pallet (MLMAT)

100% Premium Wood Fiber mulch dyed green. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft. Erosion control on slopes of 4:1 or flatter.



MAT FIBER PLUS (PURPLE LABEL) 50# Bale 40/pallet (MLMATPLS)

100% Premium Wood Fiber mulch dyed green, plus a high quality water dispersible natural tackifier premixed at 3% by weight. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft. Erosion control on slopes of 2.5:1 or flatter.



MAT BLEND (ORANGE LABEL) 50# Bale 40/pallet (MLMATFIB)

Clean recycled newsprint blended with premium wood fiber, dyed green. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft. For sites with little to no slope.



MAT BLEND PLUS (BLUE LABEL) 50# Bale 40/pallet (MLMAT50PLS)

Clean recycled newsprint blended with premium wood fiber dyed green, plus a high quality water dispersible natural tackifier premixed at 3% by weight. Apply at 1,500-1,800 lbs./acre, 34-41 lbs./1,000 sq. ft., 50# bale covers 1,200-1,450 sq. ft. For sites with mild slopes.



Tackifiers and Dye

LAWN TACK - MULCH & STRAW TACKIFIER

Natural high quality cold water dispersible guar gum based tackifier. Provides quick, inexpensive, effective erosion control of mulch & soil. Combines easily with mulch & water.

MDOT Approved

50 lbs. per acre

50 lb. box
(MLLAWNTK50)
30 cs/pallet

EARTH BOND TACKIFIER – MULCH & STRAW TACKIFIER 3 lb. Container 6/Case (MLEBTACK)

Premier polyacrylamide (PAM) water dispersible granule. Re-sealable, water proof container with mixing guide. Easy to use. 3 lb/Acre

PROFILE SLIKCOLOR DYE 11 lb. Container 2 Containers per box (MLPROFILEPLUSLIKJUG)

GUARANTEED NEXT DAY DELIVERY

Specialty Seeding Mulch Products

EZ Straw®



EZ STRAW® SEEDING MULCH W/TACKIFIER 2.5 Cu. Ft. Bale 40/pallet (MLEZSTRAWMULCH)
Covers up to 500 Sq. Ft. Processed Straw, plus an all natural tacking agent. CLEAN, NEAT & EASY! Great for small jobs. - **MDOT APPROVED**



EZ STRAW® SEEDING MULCH W/ TACKIFIER MINI 1 cu. ft. 24/pallet (MLEZSTRAWMULCH11)



EZ STRAW® LAWN REPAIR MIX 28# 40/pallet (MLEZSTRAWWSUNSHD)
An all organic lawn repair combination product with premium grass seed, organic fertilizer, processed straw and tackifier. Spreads much easier than paper and no need to rake up the straw as it biodegrades into the soil. The mix is suspended in a compressed bale and available in two sizes for your convenience. More grass seed and coverage than any other product available in the market. Covers 600 sq. ft.



EZ STRAW® LAWN REPAIR MIX 11# 4/case 40/Gaylord pallet (MLEZLRM11SUNSHD, MLEZLRM11SUNSHD4, MLEZLRM11SUNSHD40)
Covers 200 sq. ft.

Mix-N-Patch

EZ MIX-N-PATCH MULCH/SEED/FERTILIZER 20# Bag 30/pallet (LPSUN/SHD20#)
Mixes EZ! Great for small or large jobs. Can be hand applied - great for Jet Hydroseeders. 20-30 lbs/1,000 sq. ft. sprayed. Non-compressed.
Available in Sun/Shade (LPSUN/SHD20#)



EZ STRAW® JUST STRAW 1 cu. ft. 24/pallet (MLEZJUSTSTRAW)
All-purpose, clean processed straw for many uses. For garden, pets, crafts, home, farm, and more. Convenient bag with a handle, leaves no mess.



EZ STRAW® WILDFLOWERS 11# Covers 200 sq. ft. 24/pallet (MLEZWILDFLOWER)
Our custom blend of approximately 25 annual and perennials, mostly native seed. Spreads EZ, and retains moisture. A range of maturities, plant heights, and picturesque blossom of color. Convenient bag with a handle, leaves no mess.



EZ STRAW® DEER FORAGE 11# Covers 500 sq. ft. 24/pallet (MLEZDEERFORAGE11)
The first all in one combination deer forage mix. Formulated with preferred and nutritious legumes, fast establishing ryegrass plus the wildlife sensation, chicory. Highly palatable forage for energy and protein needs of developing antlers and milking does. Designed to deliver a year-round, high quality, nutritional food plot.



PENNMULCH 50# Bag 40/pallet (MLPENN)
Pelletized paper mulch with starter fertilizer and tackifier. Moisture holding polymer to aid germination. Great for smaller jobs or repairs. Covers 750-800 sq. ft.

EZ-STRAW®

Blankets/Stakes/Silt Fences

Erosion Control Blankets

RHINO EROSION KING STRAW BLANKETS

High quality erosion control blanket made with clean processed straw. Ecocycle Rapid Degrade photo-degradable netting and thread. Wood Stakes, and Metal Staples are sold separately. Use approx. 150 pegs per 100 SYD blanket. Available in both Single Net, and High Velocity/Double Net. **MDOT approved.**

- 6.5' X 138.5' 100 SYD (900 SFT) (ML6.5X138.5)
- 8' X 112.5' 100 SYD (900 SFT) (ML8X112.5)

500 syd 8' x 563' and 16' wide rolls available by special order.



RHINO EROSION KING JR. STRAW BLANKET 4' WIDE ROLLS

Same product as above just smaller width. Use in narrow locations between walk and curbs, or under downspouts. Use 50-75 pegs per blanket depending on slope. Stakes/pegs/staples sold separately.

Single Net rolls are individually stretch-wrapped and packed 16/pallet. **MDOT approved.**

- 4' x 112.5' 50 SYD (450 SFT) (ML4X112.5)

RHINO EZ STRAW® STRAW BLANKET

4 x 50 ft. roll in high quality retail packaging. Comes in a 9 pack (36/pallet), 24 pack pallet, or 30 pack pallet. Stakes included. Shrink wrapped and palletized for easy handling and storage.

- 4 x 50 (200 sq. ft.) 9 pack (ML4X509PK) 24 pack (ML4X5024PK) 30 pack (ML4X5030PK)

SPECIAL ORDER ITEMS

Excelsior Wood Blankets • Straw/Coconut Blend Blankets • Coconut Blankets • Turf Reinforcement Mats • Straw Wattles

Anchoring Stakes and Staples

METAL STAPLES 6" X 1" X 6" 1,000/box 60/plt (ST6X1X6)

Also packages of 25/bag (ST25STAPLE)

WOOD ANCHOR STAKES 6" 1,000/box MDOT Approved. 24 box/plt (STANCHOR)

Also packages of 25/bag (ST25ANCHOR)

GREEN STAKES 4" 500/box (ST4GREENSTAKE)

CIRCLE TOP 6" PINS 1,000/box 60/plt (STPINSIRCLETOP)

MAGNETIC PIN POUNDER Tool for installing Circle Top Pins (STPINPOUNDER)

SOD PEGS 8" 500/box For Sod installation (STSODPEG)

HARDWOOD STAKES

72" Tree Stakes 2" X 2" X 72" (ST2X2X3)

36" Stakes 2" X 2" X 36" (ST2X2X6)



Rhino Silt Fence

24" CONTRACTOR PLUS Premium Grade Geotextile Fabric, 6' post spacing, w/lathe 30/pallet (SF24PREM6.0LATH)

24" ECONOMY PLUS Economy Grade Geotextile Fabric, 10' post spacing, w/lathe 30/pallet (SFCON10LATH)

MDOT DOT Grade Geotextile Fabric, 6' post spacing, heavy duty post, with lathe 15/pallet (SF36MDOT6.0LATH)

- All stock silt fence rolls are 100' long
- Other size and types available



Fertilizer - Sports Turf

15-30-15 SUPER STARTER 40/pallet (FRSUPER)

20% Slow release nitrogen. Great starter formula. Covers up to 15,000 sq. ft. per 50 lb bag. SGN200.

15-30-15 WATER SOLUBLE STARTER 80/pallet (FR153015WS)

20% Slow release nitrogen. Great starter formula. Covers up to 7,500 sq. ft. per 25 lb bag.



15-0-30 PROFESSIONAL FERTILIZER (ZERO PHOSPHORUS) 40/pallet (FR15030PR)

Great fall fertilizer. High K formula. 50% slow release nitrogen. MOP/SOP, 3% iron. SGN200. Covers up to 15,000 sq. ft. per 50 lb bag.

25-0-15 PREMIUM FERTILIZER (ZERO PHOSPHORUS) 40/pallet (FR25015)

50% slow release nitrogen, SOP - 2% iron. Covers 12,500 sq. ft. per 50 lb bag. SGN200.

30-0-10 PROFESSIONAL FERTILIZER (ZERO PHOSPHORUS) 40/pallet (FR30010)

50% slow release nitrogen, MOP - 2% iron. Covers 15,000 sq. ft. per 50 lb bag. SGN200.

Fertilizer - All Mineral

12-12-12 ALL PURPOSE FERTILIZER Covers 6,000 sq. ft. per 50 lb bag. (FR121212)

19-19-19 ALL PURPOSE FERTILIZER Covers 9,500 sq. ft. per 50 lb bag. (FR191919)

6-24-24 ALL PURPOSE FERTILIZER Covers 12,000 sq. ft. per 50 lb bag. (FR062424)

Fertilizer - MDOT Specification

Class A: 23-14-14 Applied at 228 lbs/acre = correct MDOT nutrient rate per acre. 40% slow release nitrogen. 50 lb bag

Class B: 31-00-14 Applied at 120 lbs/acre = correct MDOT nutrient rate per acre. 50 lb bag ***one pallet minimum**

Class C: 39-0-0 Applied at 80 lbs/acre = correct MDOT nutrient rate per acre. 50 lb bag ***one pallet minimum**

Milorganite Classic and ProScape Fertilizer

MILORGANITE CLASSIC 6-2-0 W/4% IRON (FRMIL)

Economical Organic fertilizer. Granular Biosolids provide long lasting feeding. Covers 3,000 sq. ft. per 50 lb bag. Non Burning.

Fertilizer - Landscape and Nursery

12-3-6 ACRE ACIDIFYING FERTILIZER (FR1236) Slow release w/ minors. Covers 6-12,000 sq. ft. per 50 lb bag

14-14-14 SLOW RELEASE WITH MINORS (FR141414) Great flowering plant food. Covers 5,700 sq. ft. per 40 lb bag.



Fertilizer - Combination

18-0-5 WITH BARRICADE FERTILIZER AND PRE-EMERGENT CRABGRASS PREVENTER 40/pallet (FRCG18005)

Controls crabgrass and other annual grass weeds and some broadleaf. Apply April - early May. Covers 12,500 sq. ft. per 50 lb bag. 20% Slow Release Nitrogen.

18-0-2 FERTILIZER WITH TRIMEC BROADLEAF HERBICIDE (WEED & FEED) 40/pallet (FRWDFD18002)

Controls broadleaf weeds, dandelions and more. Apply spring/early fall when active growth occurs. Covers 12,500 sq. ft per 50 lb bag. 50% Slow Release Nitrogen.

Insecticides/Herbicides/Lawn Care Program

Insecticides

PERMETHRIN For surface feeding insects. Covers up to 12,500 sq. ft. per 25 lb bag. (CHPERMETHRIN)

MERIT .2G W/ 21-0-4 FERTILIZER Grub preventer, apply July. Covers 14,500 sq. ft. per 50 lb bag. (FRMERIT) 50% slow release nitrogen.

DYLOX 6.2G Apply where grubs are active. Provides quick control. Covers 10,000 sq. ft. per 30 lb bag. (CHDYLOX)

SEVIN 7G For surface insects and grubs. Covers up to 11,500 sq. ft. per 30 lb bag. (CHSEVIN)

Herbicides

TREFLAN 5G Controls a wide range of annual grasses and broadleaf weeds. Pre - Emergent Flower and Garden bed weed preventer. Covers 22,000 sq. ft. per 40 lb bag (CHTREFLAN)

DRIVE-XLR8 Herbicide post-emergent crabgrass control. 1/2 gallon jug (CHDRIVE)

TRIMEC - 992 "LCO" formula of Trimec. 3-4 pts./acre. 2.5 gallons each. (CHTRIMEC 992)

TRIMEC CLASSIC Classic formula. 3-4 pts./acre. 2.5 gallons each. (CHTRIMEC)

ROUND UP PRO MAX 0.5-2 oz/gal. 1.67 gallons each (CHRUPROMAX)

ROUND UP QUIK PRO Faster knockdown. Dry flowable powder. 1.5 oz/gal Mix. 6.8 lb jug. (CHRUPQJUG)

ROUND UP QUIK PRO DRYPAK 1.5 oz. pack, 5 per box, 6 boxes per case (CHRUQPPK)

Lawn Care/Fertilizer Program

Application	Product	Date
1ST Application	Fertilizer w/ Slow Release + Crabgrass Preventer	Mid March - April
2ND Application	Fertilizer w/ Slow Release + Broadleaf Weed Control	Late April - Early May
3RD Application	Slow Release Fertilizer Also: Insecticides if needed*	Late June - Early July
4TH Application	Same as #2 above, or Slow Release Fertilizer	Late August - September
5TH Application	Higher Potash blend w/ Slow Release Nitrogen	October - November

There are many variables regarding which fertilizer analysis is 'best' to use. Amount and type of fertilizer used depends on soil type, available irrigation...or precipitation, and the total amount of Nitrogen required per season to reach optimal turf quality. It is usually best to use fertilizer with 'Slow Release Nitrogen'. Always read and follow label instructions for fertilizers, combination fertilizer and pesticide products, and other lawn pest control products. Above dates are estimates depending on weather. Apply all fertilizers to dry turf and water in, except granular 'weed & feed' applications.

* Merit for grub prevention is applied now. Insecticides and fungicides are applied during summer months when infestation(s) are present.

Construction Fabric/Landscape Fabric/Burlap

WOVEN NEEDLE PUNCHED - HEAVY WEIGHT BLACK FABRIC

Designed for the Professional who wants the best in a finished project. 5 year guarantee against U.V. Deterioration. Woven needle punched material. Almost 100% opaque to prevent photosynthesis & seed germination. Lines Spaced 12" apart, for easy plant alignment. Reduces the need for continual use of chemical herbicide to control unwanted weeds or grasses.



Available in 3 sizes:

3' X 100' - 4.1 oz. Fabric (DE3X100) **3 X 250' - 4.1 oz. Fabric** (DE3X250) **4' x 250' - 4.75 oz. Fabric** (DE4X250) **6' x 250' - 4.75 oz. Fabric** (DE6X250)

PROFESSIONAL 3 OZ. SPUNBOND GREY FABRIC

Provides excellent weed control, filtration and soil separation. The heat-treated spunbond non-woven construction makes it virtually resistant to damage or stress both during and after installation. The unique manufacturing process provides a large number of various opening sizes which allows for water and air to pass, yet prevent weed growth or soil movement. Grey color works well with stone.

Available in 3 sizes:

3' X 100' (DE3OZPRO) **3' X 300'** (DE3PRO3X300) **4' X 300'** (DE3PRO4X300) **6' X 300'** (DE3PRO6X300)

BURLAP-NON TREATED

36" x 100 yds. - 7 oz. (FEBURLAP36) **48" x 100 yds. - 7 oz.** (FEBURLAP48) **72" x 100 yds. - 7 oz.** (FEBURLAP72)

Construction/Filter/Stabilization Fabric/Large Roll

(SPECIAL ORDER ONLY)

NW6 - NON-WOVEN 15'X300' 6OZ FABRIC Uses - Subsurface drainage, pondliner underlayments

EC8 - NON-WOVEN 15'X300' 8OZ FABRIC Uses - Subsurface drainage, Boulder retaining walls, pondliner underlayments

SS5 - WOVEN 200# 12.5'X432' FABRIC Uses - Soil separation and stabilization

Edging Products

DIMEX EDGE-PRO BLACK POLY EDGING

Produced from prime grade sun guarded, polyethylene resins. High quality, heavy duty edging provides easy installation, superior top bead, cold impact strength. **Stakes and connectors included.

Dimex LLC



Pro Lip 20" x 5" 5/bundle (EDPROLIP) 6 lbs. per strip w/stake kit

METAL STAKE KIT

4 stakes plus 1 connector
(ST3METAL) 50/case

STAKE - BULK PACK

100/case or sold indiv.
(STMETAL200) (STMETALI)

CONNECTOR

For Dimex Edge-Pro Edging
(EDCONNECT) 25/case

90° ANGLE CONNECTOR

For Dimex Edge-Pro Edging
(EDCONNECT90)

DURAEDEGE PREMIUM STEEL EDGING 12 Ga. X 4" X 10' (EDSTEEL)

Dark green protective painted coating. Four 12 Ga. X 14" tapered stakes supplied with each section. Allow 8" per section for overlap. Approx. weight: 1.7 lb/ft. 10/bundle (EDSTEEL). 3/16" X 4" X 16' and 1/4" X 5" X 16' available special order.



PREMIUM ALUMINUM EDGING 1/8" X 4" X 16' Mill Finish (EDCURVII)

Includes 5 stakes per strip. Packed 14/box. *Other colors and sizes available Special Order (full case qty. only,) call for pricing and availability.

Colors: Deco Black, Deco Bronze, Deco Green (Deco finishes—powder coat painted.)

Sizes: 1/8"x4"x16' – 14/case (same as stock size), 1/8"x5.5"x16' – 10/case, 3/16"x4"x16' – 16/case, 3/16"x5.5"x16' – 10/case.

Rakes/Spreaders/Establishing Turfgrass

Great Rakes

PROFESSIONAL HEAVY DUTY LANDSCAPE RAKES

Strong & Light Double Duty Rake. All magnesium-aluminum alloy with smooth, strong and tapered 2-21/2 teeth with extra heavy tips. Handles are 66" long, 1-1/8" diameter, anodized magnesium-aluminum with a 3/32" wall thickness and rounded end caps. The heavy duty deep grading lip on the edge has a supreme advantage. This is by far the strongest landscape rake on the market.

14" Rake (EQGREAT14) **24" Rake** (EQGREAT24) **36" Rake** (EQGREAT36)

Earthway® Spreaders

EarthWay
Land Management



#2750 NYLON BAG HAND CRANK SPREADER

Nylon Bag with zippered top, High RPM enclosed gears, Convenient Flow Control setting, and Single shoulder strap. (EQ2750)



#3100 PROFESSIONAL HAND CRANK SPREADER

40 lb. Capacity Hopper, Super Duty enclosed gearbox, Ev-n Spred Stainless Steel shut-off plate, wide shoulder harness, powder coated frame. (EQ3100)



#2050P ESTATE GRADE BROADCAST SPREADER

80 lb. Capacity Hopper, Commercial enclosed gearbox, Ev-n Spred Stainless Steel shut-off plate, 10" pneumatic tires, powder coated frame. (EQ2050P)



#C22HD PROFESSIONAL BROADCAST SPREADER

50 lb. Capacity Hopper, Super Duty enclosed gearbox, Ev-n Spred Stainless Steel shut-off plate, 13"x5" wide turf tires, powder coated frame. (EQC22R)



#C24HD PROFESSIONAL BROADCAST SPREADER

100 lb. Capacity Hopper, Super Duty enclosed gearbox, Ev-n Spred Stainless Steel shut-off plate, 13"x5" wide turf tires, powder coated frame. (EQC24R)

Turfgrass Establishment

- 1. Prepare seed bed**
 - A. Minimum of 4-6 inches of good topsoil
 - B. Remove stones
 - C. Work soil and rake out lumps.
- 2. Spread fertilizer**

15-30-15 at 5.75 lbs. per 1,000 sq. ft./ 5 bags per acre max. Minimum rate is 3 bags per acre or 3.4 lbs. per 1000 sq. ft.
- 3. Spread seed**

Spread evenly at the rate recommended for your specific variety.
- 4. Lightly rake**

Lightly rake in seed and fertilizer - mix the seed within the 1/4 inch of soil.
- 5. Apply Mulch**

Spread EZ Straw Mulch, Pennmulch, Loose Hydromulch, or straw blanket to protect and enhance establishment.
- 6. Water! Water! Water!**
 - A. After seeding, water frequently but light (10-20 minutes). This would be 2 to 3 times per day, depending on how hot and dry the weather is. Continue this frequent watering for 10 days to 2 weeks. Ryegrass should be greening up by now.
 - B. After 10 days to 2 weeks, water 1 to 2 times per day, 30-45 minutes each. Bluegrass will start to germinate after about 3 weeks of water.
 - C. After 3-4 weeks, reduce the frequency of watering, but increase the length of time the sprinkler is on. After about 2-3 months you should be watering 1-2 times per week, applying 1 inch of water per week.
- 7. After 3-4 weeks**

After 3-4 weeks, apply 3.5 lbs. of 15-30-15 per 1000 sq. ft.. Repeat this for the first 3 months of establishment.
- 8. MOW! MOW! MOW!**

Mow the new grass as soon as it reaches 2" with very sharp mower blades. Cut off about 1/3 of the grass blade per mowing. Take extra care not to tear up the new turf. By mowing soon and often, the slower-growing Kentucky Bluegrass varieties will have a much better opportunity to fill in.

GUARANTEED NEXT DAY DELIVERY

Policies and Procedures

Hours Seasonal

Monday-Friday Open 8:00 am to 5:00 pm
Brighton OPEN Sat. 8:00 am to 2:00 pm (April-October)

Payment Terms

We accept Visa, MasterCard, Discover, American Express, Cash and Checks. Open accounts are available to customers with established credit. We would be happy to provide your company with a line of credit if you can provide sufficient trade and financial references. There is a \$35 charge for returned checks.

Past Due Accounts

Invoices are due from the date of delivery and are expected to be paid when due. A finance charge of 1.5% per month (18% per annum) will be charged to past due accounts in addition to all cost of collection including but not limited to attorney fees and agency fees. Should an account lapse beyond it's terms we reserve the right to deny special/quantity pricing, and all credit privileges until the account is within specified terms.

Special Orders

Non-stock special orders placed will require a 50% deposit. Balance will be required upon delivery.

Prices

Prices are subject to change without notice. Please call for current prices and quotes. Quotes good for 30 days unless noted otherwise.

Grass Seed – Special Packaging

Bulk grass seed is packaged in 50 lb. bags. Smaller sizes are available and will have a packaging charge added:

Less than 50 lb: add .05 per lb.

Less than 25 lb: add .10 per lb.

Less than 10 lb: add .20 per lb.

Returns

Returns are accepted ONLY in clean, *saleable condition*. A 15% restocking charge will be deducted from the credit, except in the case of defective product or our error. No returns allowed on Special Order or Non-Stock Items. All returns must be accompanied by an invoice.

**Prices Subject to Change. See Separate Pricelist.
Please Call for Current Pricing and Quotes.**



Conversion Chart

Conversion Chart

CONVERSION FROM U.S. TO METRIC

LENGTH	MULTIPLY BY	TO DETERMINE
inches	25,400	millimeters
	2,5400	centimeters
feet	30,480	centimeters
yards	0.9144	meters
miles	1.6093	kilometers
teaspoons	4.93	milliliters
tablespoons	14.79	milliliters
fluid ounces	29.57	milliliters
cups	0.2363	liters
pints	0.4725	liters
quarts	0.9450	liters
gallons	3.7854	liters
cubic feet	0.0283	cubic meters
cubic yards	0.7646	cubic meters
ounces	28.350	grams
pounds	0.4536	kilograms
short ton (2,000 lbs)	0.9072	metric tons
square inches	6.4516	square centimeters
square feet	0.0929	square meters
square yards	0.8361	square meters
square miles	2.5900	square kilometers
acres	0.4047	hectares

LENGTH	EQUIVALENT TO	OR
inch	1/12 foot	2.5400 centimeters
foot	12 inches or 1/3 yard	0.3048 meter
yard	36 inches or 3 feet	0.9144 meter
rod	16-1/2 feet or 5-1/2 yards	5.0292 meters
furlong	220 yards or 1/8 mile	0.2012 kilometer
mile (statute)	5,280 feet or 1.760 yards	1.6093 kilometers
mile (nautical)	6,076 feet or 2025 yards	1.8519 kilometers

VOLUME/DRY	EQUIVALENT TO	OR
pint	1/2 quart	0.5506 liter
quart	2 pints	1.1012 liters
peck	8 quarts or 1/4 bushel	8.8098 liters
bucket	2 pecks	17.620 liters
bushel	2 buckets or 4 pecks	35.239 liters

VOLUME/LIQUID	EQUIVALENT TO	OR
ounce	1/16 pint	29.574 milliliters
gill	4 ounces	0.1183 liter
pint	16 ounces	0.4732 liter
quart	2 pints or 1/4 gallon	0.9463 liter
gallon	128 ounces or 8 pints	3.7854 liters

WEIGHT	EQUIVALENT TO	OR
grain	1/7000 pound	64.799 milligrams
dram	1/16 ounce	1.7718 grams
ounce	16 grams	28.350 grams
pound	16 ounces	453.59 grams

50#	800 ounces	22.680 kilograms
ton (short)	2,000 pounds	907.18 kilograms
ton (long)	2,240 pounds	1.016.0 kilograms

GEOGRAPHIC AREA EQUIVALENT TO	OR
acre	4,840 square yards
acre	43,560 square feet
	4,047 square meters
	4,047 square meters

COOKING MEASURES EQUIVALENT TO	OR
drop	1/76 teaspoon
teaspoon	76 drops or 1
	1/3 teaspoons
tablespoon	3 teaspoons
cup	16 tablespoons or
	1/2 pint or 8 oz
pint	2 cups or 16 oz
quart	4 cups or 2 pints or
	32 oz
	0.9463 liter

METRIC RELATIONSHIPS

10mm = 1 cm
 100cm = 1 m
 1000m = 1km
 1 hectare = 10,000 square meters

CONVERSION BETWEEN METRIC AND U.S.

LENGTH	MULTIPLY BY	TO DETERMINE
millimeters	0.0394	inches
centimeters	0.3937	inches
meters	3.2808	feet
	1.0936	yards
kilometers	0.6214	miles
milliliters	0.2028	teaspoons
	0.0676	tablespoons
	0.0338	fluid ounces
liters	1.0582	quarts
	0.2642	gallons
	4.2328	cups
	2.1164	pints
cubic meters	35.315	cubic feet
	1.3080	cubic yards
grams	0.0353	ounces
kilograms	2.2046	pounds
metric ton (1,000 kg)	1.1023	short ton
square centimeters	0.1550	square inches
square meters	1.2960	square yards
square kilometers	0.3861	square miles
hectares	2.4710	acres
square mile	10,764	square feet

Rhino Seed/Cowbell Seed History

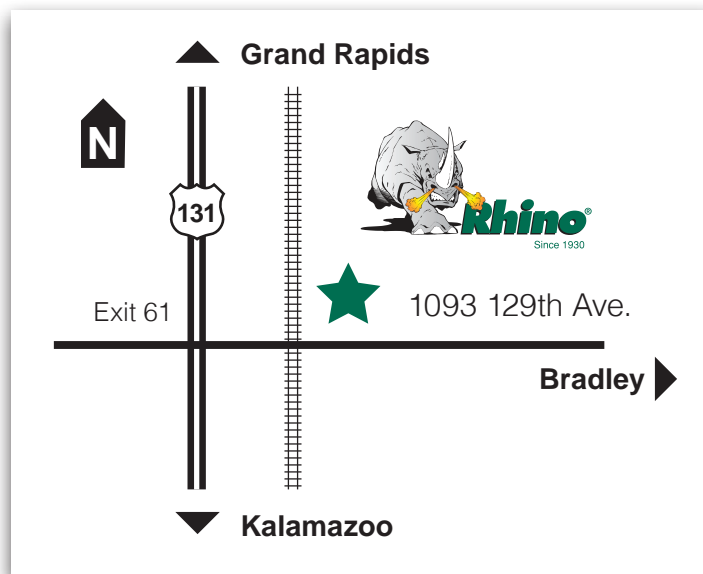
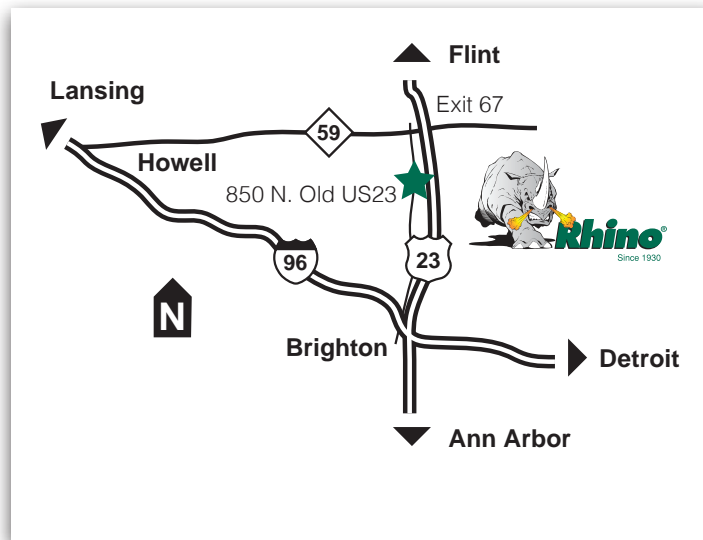
- 1930** Hilbert Seed was established August 16, 1930, and the name was changed in **1948** to Cowbell Seeds. The company business consisted of buying clover seed, cleaning it for a fee and returning it to the farmer, or cleaning it and reselling it in the corn belt for rotating crops. One year the quarter would be planted to corn, the next year it would be planted to clover to replace the nitrogen in the soil that was taken out by corn production.
- 1950** Began Hybrid Corn business.
- 1960** Our first year in the turfgrass business. Blending turfgrass for the interstate highway systems, sod farms, landscapers.
- 1963 to 1977** Opened Plank Road Farm, Bradley, Michigan. It was a tourist attraction with 150 domesticated animals, a train, stage coaches, and a picnic area with a tree house for birthday parties. Also, a fantasy house with Santa and the Elves, Old Mother Hubbard, Old Woman in a Shoe, and the Cow Jumped Over the Moon. There was also a Merry Go Round and Pony rides.
- 1975** We began specializing in sales to hydroseeders.
- 1988** We developed Lawn Patch, a product for repairing bare spots in lawns. Selling first to our wholesale customers and then developing a business selling to home owners through mass merchants, hardware stores, etc.
- 1998** Sold Lawn Patch to US Home and Garden. Ken Hilbert, John Hilbert and Omer Messer retired. Scott Hilbert retained the turf distribution business in Brighton and Bradley. The Amturf/Ampro names went in the sale because Lawn Patch was licensed throughout the US as Amturf Lawn Patch.

Scott Hilbert decided on the name of Rhino Seed and Landscape Supply. This company mixes turfgrass, and sells related products such as fertilizer, seeding mulch, chemicals, weed barrier, edging and erosion control products.

- 2001** Purchased an erosion control blanket machine for manufacturing straw blankets.
- 2005** Purchased silt fence machine for manufacturing silt fence.
- 2006** Began manufacturing EZ Straw® Blankets in a retail size for distribution throughout the United States. Carson Hilbert joins company.
- 2008** Began manufacturing EZ Straw® Seeding Mulch for distribution throughout the United States.
- 2010** Launched prototypes of EZ Straw® Lawn Repair Mix in commercial size.
- 2012** Retooled our manufacturing processes expanding production. Launched EZ Straw® Lawn Repair Mix, a combination straw product that works even better than the original Lawn Patch.
- 2013** Andrew Hilbert joins Rhino after retiring from the NHL.
- 2014** Launched widely anticipated EZ Straw® Wildflowers and a smaller size of our most popular product, EZ Straw® Mulch 1 cu. ft.
- 2015** EZ Straw® Mulch with Tack is MDOT approved.
- 2017** Our newest product, EZ Straw® Deer Forage becomes available nationally.

***We are grateful for your continued partnership over the years.
We want you to succeed The Rhino Way®***





Detroit Area (800) 482-3130 • Grand Rapids Area (877) 744-6657
www.rhinoseed.com