



MP Sales and Services Inc.

1723 13th Street
MONROE, WI 53566

Sager Fencing Building
Warehouse: 5151 Harper Road
Monticello, WI 53570

email: mpservices@tds.net
call: 608-558-2711
fax: 608-325-1685

Seed Catalog #25

Conventional and **Organic**



Thank you for your business last year. I know farmers face many challenges to produce the food we need. I also know you have a choice of where to purchase seed. Thank you for choosing to purchase from MP Sales.

I sincerely hope next year's growing season is better than this last year!

Mike Plucinski

If you can, order and pay early to take advantage of the discounts offered below for pre-pay:

Early Pay Discounts:

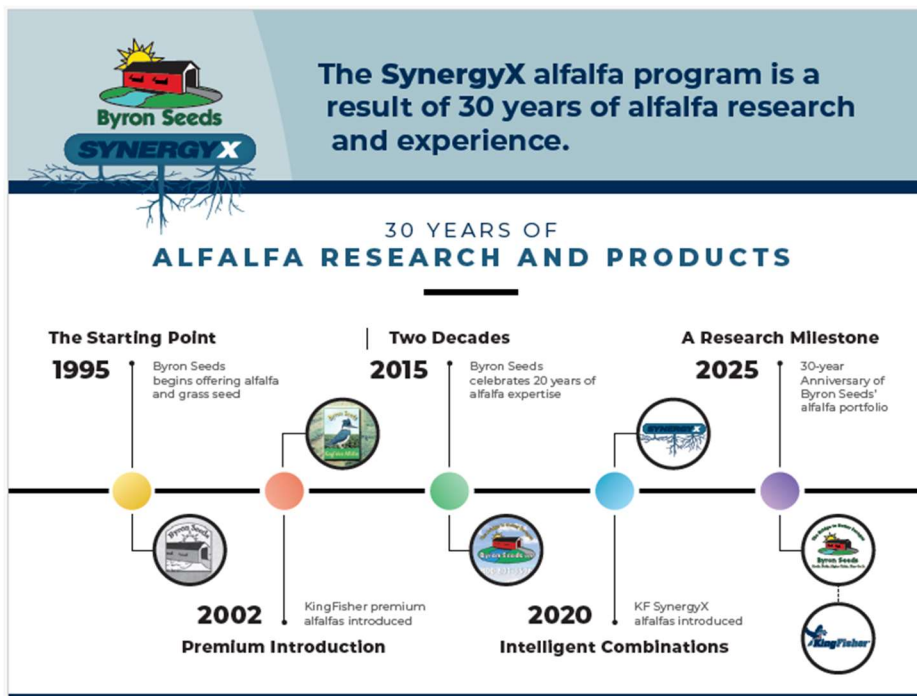
Pay in.....Discount

November..... 6%

December5%

January4%

February.....3%



ALFALFAS

Alfalfa establishment: Seed bed preparation is important. **Do not cut corners.** Make sure the seed bed is smooth, clod free, and firm. At planting the soil should be firm enough for a footprint to sink no deeper than 3/8 inch. A pH reading near 6.8 is best. Do not try to establish alfalfa in low pH soils. Have adequate levels of phosphorus, potassium, calcium, sulfur, and boron. Manure can be a good source of all the nutrients needed.

FD=Fall Dormancy WS= Winter Survival (1 is best, 5 is worst) DRI= Disease Resistance Index

CTD = Coated

OC = Organic Coating

(not a complete list- other alfalfas available)

Variety or Brand Conventional	FD	WS	DRI	Comments
Kingfisher SynergyX Ignite 	4.5	1.8	30-35/35	Combination of 4 elite alfalfa varieties with varied root systems. High yield potential with reduced crosslinking of lignin. CTD and OC
Kingfisher SynergyX Blaze 	4.5	1.8	30-35/35	Combination of 2 elite alfalfa varieties with varied root systems. Focused on quality with high Ndfd and reduced crosslinking of lignin. CTD and OC
Kingfisher SynergyX Hydropower 	4	2	30-35/35	Combination of 3 elite alfalfa varieties with a persistent red clover component. The choice if you want a clover component or for wetter areas. CTD and OC
Kingfisher SynergyX Fortress 	4	2	30-35/35	Combination of high-traffic tolerant alfalfas including sunken crown, creeping, and branch root. Good choice for pasture and headlands. CTD and OC
Kingfisher 425HD	4.5	2	30/35	Naturally bred for reduced lignin crosslinking which leads to higher fiber digestibility. OC
Kingfisher 406 A2	4	2	35/35	Branch rooted variety with excellent Disease Resistance. OC
Pillar Plus	4.8	1	34/35	Prairie Creek Seed-- Best Winter Survival OC
Prairie Thunder	4.5	1.9	35/35	Prairie Creek Seed-- Branch Rooted – Low Crown OC
Kingfisher Stronghold (Sunken Crown)	4.3	1.8	35/35	Elite Sunken Crown Variety with excellent disease resistance and winter survival. OC
Viking 374 HD	4	1.7	35/35	Highly Digestible Variety OC
Viking 394 AP	4.3	1.8	35/35	Branch Root and Sunken Crown OC
Kingfisher 403 CR	4	2	30/30	Creeping Rooted OC
Variety or Brand Certified Organic	FD	WS	DRI	Comments
Kingfisher 409 A2	4	2	35/35	Branch rooted variety with excellent Disease Resistance. OC
Blue River 394 AP	5	2	35/35	Branch Root/Sunken Crown OC
Blue River 3800	4	2.1	29/30	Older but good variety OC
Byron's 44 Mag	4.3	2.2	30/30	Tall, Robust Variety- Leafy OC
Blue River Bluebird	3.2	1.9	34/35	Leafhopper w/ Aph 2 Resistance OC
Blue River 444LH	4	1.5	29/30	Leafhopper w/ excellent Winter Survival OC

Other Alfalfas:

	FD	WS	DRI
KS 410	4.3	1.9	35/35
KS 452 QC (Quick Cut)	4.7	1.4	33/35
Viking 342 LH	3.9	1.8	30/30
Kingfisher 444	4	1.5	30/35
Viking 330M- Economy	4	2.2	29/30
Galaxy II Brand ML	4	2.1	30/30
KS Alliance (blend)	4.2	1.9	33-35/35
KS 420 RL (reduced Lignin)	4.2	1.8	34/35

Other Organic Alfalfas:

	FD	WS	DRI
Blue River 340 M	3	2	27/30
Kingfisher OR 202	4	2	28/30
KS 580	4	2.1	27/30
Matrix Creeping	2.5	2	25/30
Galaxy II Brand ML	4	2.1	30/30
5301 Multi-Leaf	4	2.1	27/30
Allstar Brand	3	2	27/30

CLOVERS

Clover Establishment- The guidelines for establishing alfalfa can also apply for clover. Clover will tolerate wetter soils and more acidic soils a little better than alfalfa. Some growers will include 2-3# of Red Clover in with their alfalfa seeding, especially in wet, heavy soils. An older thinner stand of alfalfa can be thickened up by seeding 5-8# of a good red clover in the spring as soon as conditions allow. Clover may also tolerate grazing a little bit better.

(not a complete list- other varieties/brands available)

Variety or Brand	Comments	Conv	ORG
Multi-Year Medium Red for Hay or Pasture			
KF Red Power Blend	Blend of 2-3 Elite Clovers available 25#	X	
Free Spirit	Improved newer variety bred for persistence in harsh winters 50#	X	X
Sunset Red	Good yields 50#		X
Freedom! MR Medium Red	Fine stems with less stem pubescence 25#	X	
Ruby Red	Multi-year, fast establishing and recover 50#	X	
Redkin Red	Multi-year- Outstanding persistence 50#	X	
Cyclone II Red	Multi-year with good winterhardiness 50#	X	
Prairie Fire	Multi-year 50#	X	
Resilience Red	Outstanding Persistence and Yields 25#		X
Renegade Red	2-3 year with good southern movement	X	X
Common Medium Red			
Common Medium Red	Bi-annual for short stand or green manure 50#	X	X
White and other Clovers			
Kakariki White	Late maturing, very large leaves 25#	X	
Liflex/Rivendel/Klondike White	medium leaves, persistent, tolerate grazing well 50#		X
Alice White	Large leaves, erect growing variety from Barenbrug 25#	X	
Regal Graze White	Large Leaved, high yielding 25#	X	
Alsike	Biennial that tolerates wet acidic soil better then other clovers 50#	X	X
Crimson Clover	Summer Annual for hay, graze, or green manure 50#	X	X
Berseem Clover	Fast growing to thicken hay stands for one year or fall cover 50#	X	
Frosty Berseem	More cold tolerant Berseem 50#	X	
Mammoth Red	Tall single cut used mostly for plowdown 50#	X	X
Balansa Clover	Annual hollow stemmed white clover used for N fixation 50#	X	
Yellow Blossom Sweet Clover	Biennial used mostly for green manure crop 50#	X	X
White Blossom Sweet Clover	Same as Yellow Blossom, but flowers 2 weeks later 50#	X	
Kura Clover	High yielding, extremely persistent, slower to establish 50#	X	
KF Vigilant	Blend of 2 white- best suited for grazing 25#	X	
KF Clover Mix	Blend of 70% red clover and 30% white clover 50#	X	
Organic Plowdown Mix	1/3 Alta Swede, 1/3 Alsike, 1/3 Yellow Blossom 50#		X
White Dutch Clover	Low growing, traffic tolerant- used as living mulch 50#	X	



GRASSES

Grass Establishment- A well prepared, firm seed bed is needed. ¼" to ½" seeding depth is preferred. As a companion with Alfalfa, use the latest maturing varieties available. Pay attention to the seeding rates on last page of this catalog. Italian ryegrass and Festuloliums will establish quickest, tall fescues, orchardgrasses, and perennial ryegrasses will show up more as the year goes on. Grasses need a steady supply of nitrogen for optimum yields.

Variety or Brand	Comments	Conv	ORG
Endophyte Free Tall Fescue			
KF Premium Hay Blend	Blend of at least 2 premium high yielding and high Ndfd tall fescues 33#	X	
STF-43	Soft Leaved blend from Barenbrug 50#	X	
Kora	High yield, bred for high Ndfd 50#	X	X
Lipalma	Soft leafed variety from Germany 44#	X	X
Swaj	Soft Leafed variety 50#		X
Orchardgrass			
KF OG Blend	Blend of best available late maturing, disease resistant varieties 25#	X	
Echelon	Late heading, very Winterhardy 50#	X	X
Sundown	Late Maturing, aggressive tillering 50#	X	
HLR	Blend of late maturing, high leaf to stem ratio – Barenbrug 25#	X	
Lidacta or Niva	Very leafy and Rust Resistant 33#		X
Meadow Fescue			
KF Galaxy	Blend of top performing varieties available 50#	X	
Liherold	Good performer in upper Midwest 55#	X	X
Laura	Early maturing 50#	X	X
Minto, Preval, or Pardus	Medium maturing 50#	X	X
HDR	Late maturing with good disease resistance 50#	X	
Festulolium			
Lofa or Perun	Late Maturing	X	
Persues	DLF variety		X
Spring Green	Early maturing, quick out of the ground	X	
Federo	Late		X
Annual and Italian Ryegrass			
KF Allegro Italian	Blend of diploid and tetraploid 50#	X	X
Green Spirit Italian	Blend of diploid and tetraploid 50#	X	
Feast II Italian	Tetraploid 50#	X	
Flex Annual	Latest Maturing, high yielding 50#	X	
VNS Annual Ryegrass	Variety Not Stated 50#	X	x
Perennial Ryegrasses			
KF Eclipse	Blend of diploid and tetraploid with good resistance to stem rust 50#	X	
Kentaur or Calibra	Tetraploid from DLF 50#		X
Melfrost Perennial Ryegrass	Tetraploid type 50#		X
BG 34/ or 24T	Blend from Barenbrug of tetraploid and diploid varieties 50#	X	
Remington	Very Winterhardy Tetraploid 50#	X	
Timothy			
Presto Timothy	Mid to Late- good Winterhardiness 50#	X	
Climax Timothy	Early Maturing 50#	X	X
Dolina Timothy	Medium Maturity		X
OTHER GRASSES AND HAY MIXES NEXT PAGE			

GRASS, PASTURE, AND ALFALFA HAY MIXES

Variety or Brand	Comments	Conv	ORG
Grass mixes to seed alone or with Alfalfa/Clover			
KF Alfaplus	Blend of 50% Tall Fescue, 25% Orchardgrass, 25% Meadow Fescue 33#	X	X
KF Haylage Plus	Blend of 50% Tall Fescue, 25% Festulolium, 25% Meadow Fescue 33#	X	
KF Horsepower	Mix of Grasses only 33#	X	
KF Horsepower Plus	Mix of grasses plus 5% white clover 33#	X	
Complete Pasture Mixes			
Grassworks Grazing Mix	Grazing mix formulated by the folks at Grassworks 50#	X	X
Grassworks Grazing Mix "D"	Same as Grazing mix above except also contains: Orchardgrass, Alfalfa, Trefoil, Plantain, and Chicory 50#	X	
KF Premium Pasture Mix	Contains: Meadow Fescue, Soft Tall Fescue, Orchardgrass, Per. Ryegrass Creeping Alfalfa, Red and White Clover, Kentucky Bluegrass 50#	X	
KF Beef Builder	Contains: Soft Fescue, Orchardgrass, Per. Ryegrass, Red and white Clovers, and Kentucky Bluegrass 50#	X	X
Grass-Legume Mixes for Hay/Balage/Haylage			
KF Highland Hay Mix	65% KF Alfalfa, 10% Brome, 10% Tall Fescue, 10% Orchardgrass, 5% timothy 50#	X	
KF Lowland Hay Mix	50% KF Branch Root Alfalfa, 15% Persistent Red Clover, 10% Tall Fescue 15% Orchardgrass, 10% Timothy 50#	X	
KF Hay Grazing Mix	40% Alfalfa, 5% Red Clover, 25% Tall Fescue, 15% Meadow Fescue 15% Orchardgrass 50#	X	
KF Performance Max	35% each of 2 Elite KF Alfalfas, 10% each of Tall Fescue, Meadow Fescue And Orchardgrass 50#	X	

Other Grasses and Mixes Available Including Custom Mixes



Kingfisher Hydropower Alfalfa and Alfaplus
(Grazing last cutting of the season)

SUMMER FORAGES

Soil temperatures should be 60 degrees and rising at planting. 40-50# per acre, planting heavier will yield finer stems. Nitrogen and sulfur are important for maximum yield and quality. Manage for prussic acid and nitrate potential on the BMRs. Planting rates for Forage Sorghum will vary depending on whether it's drilled or planted in rows. No Prussic acid potential in Millets and Non-BMR Sorghums.

Variety or Brand	Comments	Conv	ORG
Sorghum Sudan Grass			
KF Summer Supreme	Blend of BMR Sorghum X Sudan for maximum yield and quality	X	
KF Summer Dream	Blend of Brachytic Dwarf BMR Sorghum X Sudan	X	
KF Summer Prince	Blend of Photoperiod Sensitive BMR Sorghum X Sudan	X	
Blue River 210, 225 or Blackhawk 12	BMR Sorghum Sudan		X
KF Eons	BMR Sorghum Sudan		X
Viking 100, 104, 150 CNV	<u>NON-BMR</u> Sorghum X Sudan	X	
Cadan WMR	<u>White Mid Rib</u> hybrid w/ low lignin and Dry Stalk	X	
Sudan Grass			
EnergyPro 93	BMR Leafy Fine Stem w/ drystalk	X	X
Piper	<u>NON-BMR</u> Sudan Grass	X	
O-510 or Pheasant 6	BMR Sudan Grass	X	X
Pro-Max	BMR Sudan Grass	X	
Forage Sorghum			
Byron's FiberPro 74	Full Season BMR Brachytic Dwarf (110-115 day)	X	
Byron's FiberPro 76A	Full Season BMR Brachytic Dwarf - Aphid Tolerant	X	
KF FiberPro 50	Shorter Season BMR Brachytic Dwarf (85-95 day)	X	
Viking 400 & 401	Medium Maturity BMR Sterile Hybrid	X	X
KS-647 or KS 640	Short Season BMR Sterile head w/ drystalk	X	
Millet			
KF Prime 360 or 180	BMR Hybrid Pearl Millet with zero prussic acid potential	X	
Exceed	BMR Hybrid Pearl Millet	X	
Japanese Millet	Fine stems	X	X
Summer Mixes			
Yield Max	BMR Sorghum Sudan, Italian Ryegrass, Red Clover, Berseem Clover, Hairy Vetch	X	
Dairy Max	Italian Ryegrass, Red Clover, Berseem Clover, Hairy Vetch	X	
Milo/SB	Grain Sorghum/Bushy Soybean mix for Forage	X	
Teff Grass			
Corvallis or Bonus Teff	Summer Annual	X	



Oats

Reins Oats, Certified
Shelby 427 Oats, Certified
Horsepower Oats, certified
IN9201
Non-Cert Jerry Oats
Forage Plus Oats
Laker Forage Oats
Certified Badger Oats
Certified Esker Oats

Oat/Pea/Trit/ Mixes

Pea Oatlage
Pea Tritlage
Byron Milk Max-Forage Oats and Peas
Byron Tritlage Pro-Forage Triticale and Peas

Other Small Grains

Robust Spring Barley
Haymaker Spring Barley
Buckwheat
Spring Triticale
4010 Field Peas
Cowpeas
Succotash
Mix of Spring Wheat, Barley, Oats

Brassicas and Other Seeds

Barsica Forage Rape
Groundhog or Nitro Tillage Radish
Barkant or Appin Forage Turnips
Pasja Hybrid Forage Brassica
T Raptor Hybrid



Winfred Hybrid Forage Brassica

Oasis Chicory
Forb Feast Chicory
New-reduced bolting chicory blend from Barenbrug
Hairy Vetch
Tonic Plantain
Sunn Hemp
Summer Annual Legume Cover crop

Organic Grains

Certified Shelby 427 Oats
Certified Esker or Badger Oats
Non Cert Jerry Oats
Certified Deon Oats
Certified Reins Oats
Short, early, high yielding oat.
VNS Spring Triticale
Peas- Oatlage
Peas- tritlage
4010 Field Peas
Montech Grain Peas
Robust Barley
Buckwheat
Austrian Winter Peas
Haymaker Barley

Other varieties may be available
Prices and availability subject to change
Small grains are non-returnable

	Cover Crops and Cover Crop Mixes		
Variety or Mix		Conv	Org
Tillage Radish	Nitro or Oilseed or Daikon Radish or VNS	X	X
Buckwheat	VNS	X	X
Hairy Vetch	VNS	X	X
Cowpeas	Various varieties	X	X
Sunn Hemp	Warm Season Annual- Legume	X	
Phacelia	Strong Root System	X	
Keystone Winter Peas	High N fixing cover crop pea	X	
	Cover Crop Mixes		
Nitro-Green	Mix of Hairy Vetch, 4 clovers, Tillage Radish	X	
Soil Builder	Mix of Annual Ryegrass, Crimson Clover, Hairy Vetch, Radish	X	X
Bio-D	Diverse 16 way mix	X	
N-Cite	8 way warm season mix to fix N- will winterkill	X	
Summer Lightning	Fast Establishing weed control mix w/ grazing potential- annuals	X	
	Terralife Cover Crop Mixes		
Rigol DT	Diverse mix for rotations- before Soybeans and Potatoes	X	
Maizepro DT	Developed for corn rotation- annual and winterhardy mix	X	
Betamaxx	Best mix for vegetable rotation/sugar beets- will winterkill north	X	
Garden Rigol DT	7# of Rigol DT- 1# per 1000 sq feet- seed Late June to August	X	
	CUSTOM MIXES CAN ALSO BE MADE	X	X

Conventional Non-GMO Corn

Kingfisher Corn

Call or See Kingfisher Catalog for more information on each variety.

Also Available: (Call)

Prairie Hybrids Conventional Corn
Foundation Seeds Conventional/GMO** Corn**
Viking Conventional Corn

Certified Organic Corn



Kingfisher OrganicCorn

Call or See Kingfisher Catalog for more information on each variety.

Blue River Organic Corn

Call or see Blue River Catalog

Also Available:

--Prairie Hybrids Organic Corn
--Foundation Organic Corn
--Welter Seeds Organic Corn

CALL FOR CORN INFORMATION AND PRICES.



SOYBEANS

Conventional and GMO Soybeans

GMO

Merschman

NON GMO

Welter Seed

Viking

Virtue

Lakeview

Organic Soybeans



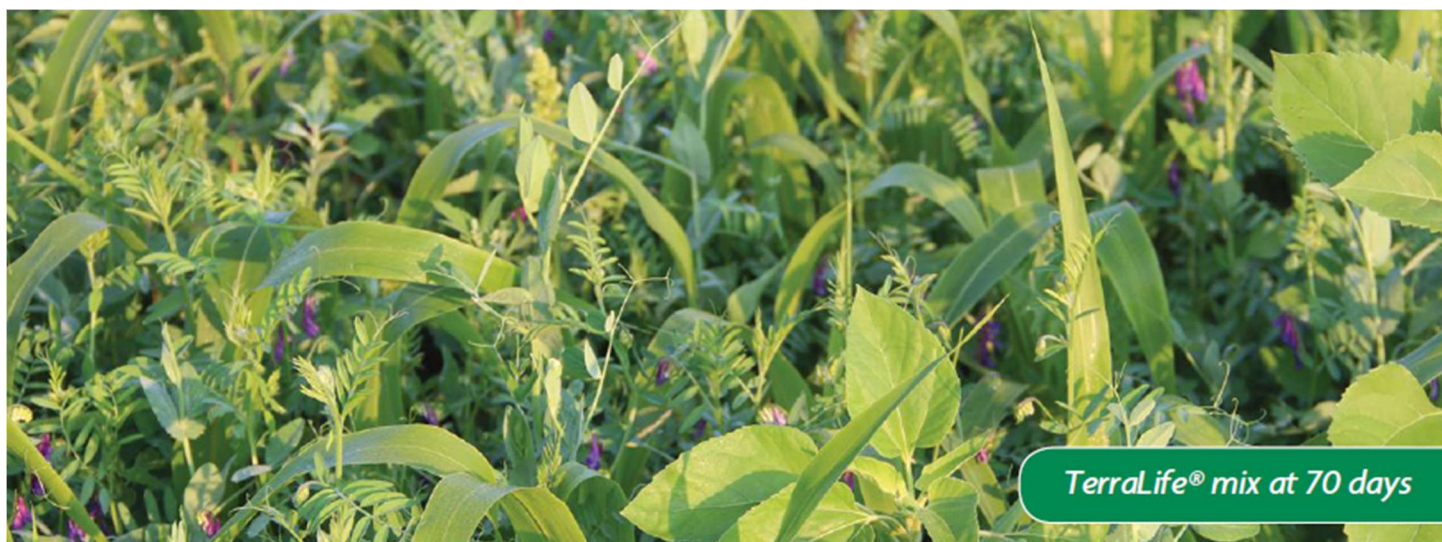
Blue River

Lakeview

Galena Genetics

CALL FOR SOYBEAN INFORMATION AND PRICES.





TerraLife® mix at 70 days

This article from one of our newsletters makes some good points:

HOW MUCH NUTRIENTS CAN COVER CROPS GROW by Aaron Fisher

You can grow a lot of nitrogen. In 2022, we did a significant amount of testing with Regen Ag Lab to see how much nitrogen the legume cover crops are making for us. The results were amazing! Crimson clover in full bloom made 120 pounds of nitrogen per acre in top growth. That nitrogen value is significant per acre. In addition to that, we're getting added benefits from phosphorous and other nutrients. There's a lot of phosphorus in the soil that isn't available to the plants. A growing plant will produce root exudates that solubilize this and make it available to the plant. The tests showed that we were getting 156 pounds of potash per acre (in the plant) that's plant available as well, plus some phosphorus.

One of our organic clients had planted oats and spring peas in March where he didn't get any clover planted last fall. The peas didn't get worked in until early June due to the wet weather in 2022. The test on that came back at 295 units of nitrogen per acre in the plant. Peas were in full bloom.

Legumes don't put much nitrogen into the soil until after they've reached full bloom—most of it is in the plant. How much nitrogen credit can we safely figure from legumes? According to SARE research, if the crop is incorporated, 50% of that will be available the first year. If it's a no-till system, 25% will be

available the first year. A lot of this also depends on your biology and microbial activity on how fast it breaks down. You are also building your nitrogen reserves for the next 2-3 years.

You might be thinking this is too good to be true, but this is real life figures done on the farm by a farmer. You can do this too. But you must manage your cropping system to accommodate this. For example, soybeans need to be harvested early enough to allow enough time for legumes to establish before winter. You also need to make sure you don't have herbicide residuals that could hurt your cover crop.

Remember, a growing plant will produce root exudates that solubilize minerals in the soil, making them available to the plant. If you have bare soil, you don't have the root exudates working for you. Even with just cereal rye after beans, we captured 35 units of nitrogen that otherwise would have been lost—gone down the river.

Treat your cover crops like a cash crop because that's what they are! And remember, balancing the carbon/nitrogen ratio is very important to maximize the efficiency and effectiveness of a good cover crop program.

WINTER GRAINS:

PRICING AND AVAILABILITY DETERMINED LATE SUMMER, EARLY FALL

Special Truckload Pricing will be available on the following:

(terms: 880 bag minimum to one location, can mix product, also available in totes)

- Hyton Winter Triticale
- Cereal Rye
- Annual Ryegrass
- Additional Products may be available.

Seed that will be available:

Cereal Rye (VNS and other varieties)
Winter Triticale.....(Many different varieties)
Winter Wheat.....(Many different varieties)
Winter Barley.....(Few different varieties)
Winter Spelt.....(Few different varieties)

Conventional and Organic
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TEXT, OR E-MAIL:

Mike Plucinski

Call or Text: **608-558-2711**

E-Mail: mpservices@tds.net

Fax:608-325-1685

Website:..... mpservices.net



General Seeding Rates:
(per acre)

<u>Alfalfa.....</u>	<u>18-22#</u>
<u>Clover.....</u>	<u>12-20#</u>
<u>Clover w/pasture grasses</u>	<u>18# grasses, 8-12# clovers</u>
<u>Orchardgrass w/ alfalfa.....</u>	<u>1-2#</u>
<u>Tall Fescues w/ alfalfa.....</u>	<u>5-8#</u>
<u>Per. Ryegrasses w/ alfalfa.....</u>	<u>5-8#</u>
<u>Timothy w/ alfalfa.....</u>	<u>2-3#</u>
<u>Ryegrasses, Fescues,</u>	
<u>as a sole crop.....</u>	<u>25-35#</u>
<u>Orchardgrasses or Timothy</u>	
<u>as a sole crop.....</u>	<u>15-20#</u>
<u>White clover in pasture mix.....</u>	<u>1-2#</u>
<u>Sorghum Sudan.....</u>	<u>50-60#</u>
<u>Forage Sorghums.....</u>	<u>5-8# rowed</u>
<u>.....</u>	<u>8-12# drilled</u>
<u>Oat/Peas or Trit/Peas cover</u>	
<u>crop with alfalfa seeding.....</u>	<u>75-100#</u>
<u>Oats/Peas or Trit/Peas</u>	
<u>for forage.....</u>	<u>110-130#</u>
<u>Oats cover w/alfalfa seeding.....</u>	<u>1-1.5 bu</u>
<u>Oats for grain.....</u>	<u>3-4 bu</u>
<u>Brassicas in a mix.....</u>	<u>3-5#</u>
<u>Chicory, Plantain in a mix.....</u>	<u>2-5#</u>

Corn- Recommended Population from Supplier
Conventional Soybeans- 140K pop/acre
Organic Soybeans- 185K – 200K pop/acre

Call if you have any questions on seeding rates or would like recommendations for your fields.



SYNERGYX IGNITE ALFALFA BLEND