



COVER CROP GUIDE

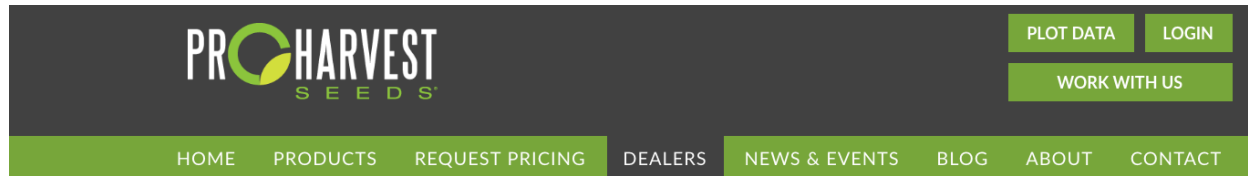


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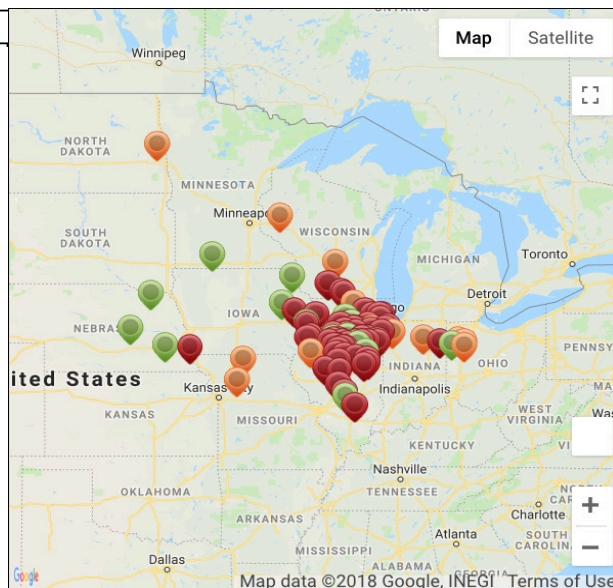
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COVER CROPS: A 3-STEP PLAN



1. SELECTION

- Choose fields that can have Cover Crops long term
- Select Cover Crop blend that best fits your needs
- Utilize quality seed



2. ESTABLISHMENT

- Choose a planting establishment option that fits your crop plan
 - Aerial, broadcast, and drill are common methods
- Seed to soil contact results in the best establishment



3. TERMINATION OPTIONS

- Utilize winter kill mixes
- Terminate Cover Crops two weeks prior to planting cash crops
- Terminate Cover Crops after planting cash crops



When developing your Cover Crop System go to our seed guide at ProHarvestseeds.com. We have identified corn hybrids that will complement your CC establishment. These specific hybrids are chosen due to physical and agronomic characteristics that assist the grower in applying cover crops earlier for a more successful establishment period.



Benefits:

- Scavenges Nutrients
- Excellent for Weed Suppression
- Improves Soil Health
- Prevents Erosion
- Enhances Soil Tilth

reSTORE brand winter rye is the highest quality rye in the industry. reSTORE is carefully screened and then processed using a gravity table to provide high quality results in cover cropping situations. This high quality brand of winter rye will excel in germination, purity, and cleanliness. Winter rye is an excellent choice for erosion control, winter hardiness, forage yield, and weed suppression.



Seeding Information:

Method	lbs./acre
Broadcast	75-112
Drilled	45-84
Precision	35



- **Reduced Ergot**
- **90%+ germ**
- **99.5% purity**

Management:

- Plant August to October
- Seeding depth 3/4" to 1" depending upon soil moisture
- Seeds/lb. is 16,000 to 18,000



Benefits:

- Scavenges Nutrients
- Improves Soil Health
- Relieves Compaction
- Suppresses Weeds
- Enhances Soil Tilth

reCLAIM is a late maturing cover crop radish with a deep root system making it a great choice for scavenging nutrients. This radish grows deep into the soil profile, 30 inches or more, allowing it to "reCLAIM" nitrogen and other leached nutrients back into the root zone. The radish then decomposes and releases these nutrients making them readily available for the next cash crop.



34" deep in 8 weeks!

Management:

- Plant 4 to 10 weeks prior to the first killing frost
- reCLAIM winter kills after 3 nights of temperatures in the mid-teens
- Use full rate of Glyphosate with 1 pint of 2-4D to terminate any radishes that may survive the winter.

Seeding Information:

Method	Lbs./acre
Broadcast	10
Drilled	6 to 8
Precision	4



A deep root system even with a medium girth sized tuber.
Picture taken at 33 days



AwakeN Blend

8-way Blend/Grasses/Legumes/Brassica's

Description

This 8-way blend is designed for improving soil health. The combination of multiple grasses, legume's and brassica's will "AwakeN" the soil biology. The very diverse blend will help to improve mineralization, soil structure, and active organic matter. It is primarily designed for taking advantage of soils that are fallow from June through August. This can also provide an excellent livestock feed while improving soil health.



Management

Overall Management Level	High
Over Wintering Ability	Low
Seeding into Corn	Not Recommended
Seeding into Soybeans	Not Recommended
Seeding before Corn	Highly Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Excellent
Spring Forage	NA
Seeding Depth	1/4" to 1/2" deep

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	35 lbs.	40 lbs.
Broadcast	50 lbs.	50 lbs.
Aerial	NA	NA
Precision Planting	25 lbs.	30 lbs.



Secure Blend

Annual Ryegrass/Radish

Description

Secure is a blend of Centurion annual ryegrass and reCLAIM radish. This blend will break up compaction with both the deep taproot of a radish and the fibrous root system of annual ryegrass. Secure scavenges nitrogen and other nutrients for the next cash crop. Additionally, Secure does an excellent job with weed suppression and increasing soil health.



Management

Overall Management Level	High
Over Wintering Ability	Medium
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Recommended
Seeding before Corn	Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Good
Seeding Depth	1/4" to 1/2" deep

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	15 lbs.	25 lbs.
Broadcast	18 lbs.	35 lbs.
Aerial	18 lbs.	35 lbs.
Precision Planting	12 lbs.	20 lbs.



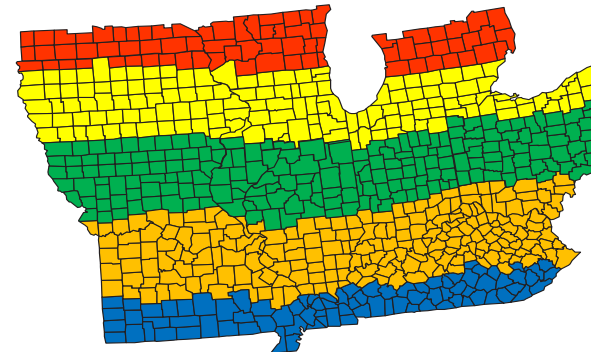
- Excellent in decreasing soil compaction
- Improves soil structure and permeability
- Scavenges N both fall and spring
- Includes a winter hardy annual ryegrass variety

Benefits

Limited Excellent

- Increase Organic Matter
- Scavenge Nutrients
- Reduce Compaction
- Improve Soil Tilth
- Improve Soil Structure
- Fall Weed Suppression
- Spring Weed Suppression
- Species Diversity

Last planting date



1	2	3	4	5
Sept 1	Sept 10	Sept 20	Sept 20	Sept 30

Termination

reCLAIM radish dies around 15 degrees. Burndown annual ryegrass with one quart of glyphosate. Best control is achieved by spraying on a warm day between 9 a.m. and 2 p.m. with water adjusted to 5.5 pH or lower. If radishes do not winter kill, add one pint of 2,4-D type of herbicide.

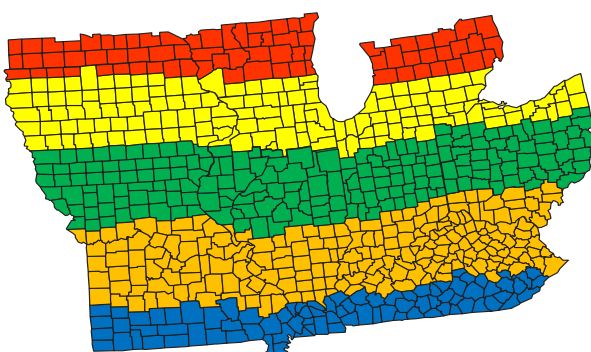
- Excellent summer mix with a lot of bio-diversity
- Great for soil regeneration
- Excellent for microbial activity
- Scavenges nutrients well

Benefits

Limited Excellent

- Increase Organic Matter
- Scavenge Nutrients
- Reduce Compaction
- Improve Soil Tilth
- Improve Soil Structure
- Fall Weed Suppression
- Spring Weed Suppression
- Species Diversity

Last planting date



1	2	3	4	5
Aug 1	Aug 10	Aug 20	Aug 30	Aug 30

Termination

The majority of the species in this blend will winter kill. Use full rates of glyphosate for termination with one pint of 2,4-D type of herbicide to terminate the crimson clover, balansa clover, and brassica's that may have overwintered.



Cover Crop Positioning Chart

	Bonus Blend	Land & Livestock Blend	N-Fix Blend	Quick Cover Blend	Secure Blend	Awaken Blend	Brassicas Mix	reCLAIM Radish	Centurion Annual Ryegrass	reSTORE Winter Rye	Winter Barley	Oats	Crimson Clover	Winter Wheat
Drill Seeding Rate	35	50	11	25	15	30	5	6	12	45	50	50	15	50
Broadcast Rate	45	65	17	35	18	50	10	10	15	84	75	70	20	75
Increase O.M.	10	10	4	5	10	10	4	4	10	10	8	5	5	6
Fall Weed Suppression	10	9	8	8	8	10	8	7	7	9	9	7	7	8
Spring Weed Suppression	10	10	5	7	9	10	4	3	9	10	8	4	4	8
Scavenge Nutrients	10	10	9	10	10	10	9	9	10	10	8	5	8	6
Alleviate Compaction	10	10	8	9	10	10	8	9	10	6	6	2	2	5
Improve Soil Tilth	10	10	8	10	10	9	8	8	9	9	9	4	4	6
Improve Soil Structure	10	10	4	5	10	8	3	3	10	9	8	2	2	7
Management Level	Medium	Medium	Medium	Low	High	High	Low	Low	High	High	Medium	Low	Medium	High

Non-Legumes	
Annual Rye Grass	80%
Barley (Fall)	20%
Buckwheat	15%
Cereal Rye (Winter Rye)	70% 92%
Oats	85% 24%
Pearl Millet	13%
Brassicas	
Turnips	25%
Cover Crop Radish	5% 8% 20% 15% 20% 3% 50%
Rape Seed	5% 2% 25%
Legumes	
Crimson Clover	50% 12%
Fixation Clover	30% 3%
Cowpeas	28%



Quick Cover Blend

Oats/Radish

Land & Livestock Blend

Winter Rye/Radish

Description

A simple, easy way to get started into cover crops, the Quick Cover Blend is a combination of the proven reCLAIM radish and VNS oats. This mix will establish fast, prevent fall erosion, and scavenge nutrients, including N, P, and K. The reCLAIM radish roots grow deep into the soil profile and will pull nitrogen and other leached nutrients back into the cash-crop root zone, making them readily available for the next season. Oats are outstanding for weed suppression & erosion control.



Management

Overall Management Level	Low
Over Wintering Ability	Low
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Highly Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	NA
Seeding Depth	1/4" to 1/2" deep

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	25 lbs.	30 lbs.
Broadcast	35 lbs.	50 lbs.
Aerial	35 lbs.	50 lbs.
Precision Planting	20 lbs.	25 lbs.



Oats / Radishes

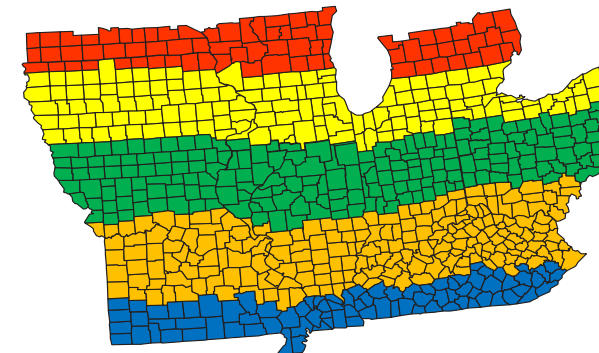
- Easy to manage for being an overwintering blend
- Very good fall and spring weed suppression
- Builds soil below ground and protects it above
- Low risk of establishment comparatively

Benefits

Limited Excellent

- Increase Organic Matter
- Scavenge Nutrients
- Reduce Compaction
- Improve Soil Tilth
- Improve Soil Structure
- Fall Weed Suppression
- Spring Weed Suppression
- Species Diversity

Last planting date



1	2	3	4	4
Sept 1	Sept 10	Sept 20	Sept 30	Sept 30

Termination

reCLAIM radish dies around 15 degrees. Burndown winter rye with one quart of glyphosate. Best control is achieved by spraying on a warm day between 9 a.m. and 2 p.m. with water adjusted to 5.5 pH or lower. If radishes do not winter kill, add one pint of 2,4-D type of herbicide.

Description

An easy to manage blend of reCLAIM radish and reSTORE winter rye. The deep rooting radish will scavenge nutrients and alleviate compaction. Cereal rye is one of the most aggressive nitrogen scavengers and helps to suppress tough to manage weeds, including winter annuals like mares tail. Can be used as a forage in both spring and fall.



Management

Overall Management Level	Medium
Over Wintering Ability	Excellent
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Need Experience
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Very Good
Seeding Depth	1/2" deep

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	50 lbs.	75 lbs.
Broadcast	65 lbs.	75 lbs.
Aerial	65 lbs.	75 lbs.
Precision Planting	40 lbs.	60 lbs.



Winter Rye, Radishes

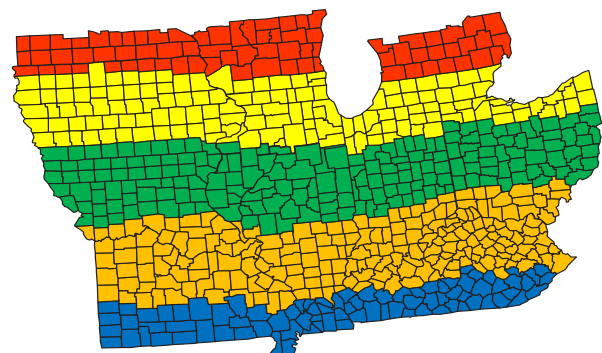
- Easy, effective blend for low management
- Establishes quickly to minimize fall erosion
- Winter-kills easily
- Scavenges nutrients well

Benefits

Limited Excellent

- Increase Organic Matter
- Scavenge Nutrients
- Reduce Compaction
- Improve Soil Tilth
- Improve Soil Structure
- Fall Weed Suppression
- Spring Weed Suppression
- Species Diversity

Last planting date



1	2	3	4	5
Sept 1	Sept 10	Sept 15	Sept 25	Sept 30

Termination

reCLAIM radish winter kills around 15 degrees. Oats will winter kill at the first hard frost. If radishes or oats do not winter kill, apply a combination of one pint 2,4-D type herbicide along with one quart of glyphosate at flowering or heading.

N-Fix Blend

Crimson/Fixation Clover/Radish

Bonus Blend

Winter Rye/Barley/Radish/Rapeseed

- Nitrogen fixing & scavenging at its best
- Excellent after wheat, corn silage or seed corn
- Improves soil tilth
- Plant timely to take advantage of N production

Description

N-Fix is a combination of the nutrient scavenging reCLAIM radish, crimson clover, and Fixation Balansa clover. The reCLAIM radish breaks up compaction while absorbing key nutrients with its deep taproot. Both crimson and balansa clovers fix atmospheric nitrogen into plant-available nitrogen, helping reduce fertilizer input, while improving soil health by adding organic matter. Maximum nitrogen production is achieved at first flower of clovers.

- Excellent fall weed suppression
- More biological diversity to stimulate microbes
- Long establishment window for a fall blend
- Improve soil structure and increase OM

Description

This 4-way mix has a large planting window and low seeding rate compared to winter rye. The planting window is August 15th to September 30th. The mix contains reSTORE Winter Rye, Barley, Rapeseed and reCLAIM radish. The 4-way blend gives excellent fall weed suppression. It also provides multiple ways to scavenge nutrients. The lower seeding rate and chance that the Barley may not over winter will make it easier to terminate in the spring.

Benefits

Limited	Excellent
Increase Organic Matter	
Scavenge Nutrients	
Reduce Compaction	
Improve Soil Tilth	
Improve Soil Structure	
Fall Weed Suppression	
Spring Weed Suppression	
Species Diversity	

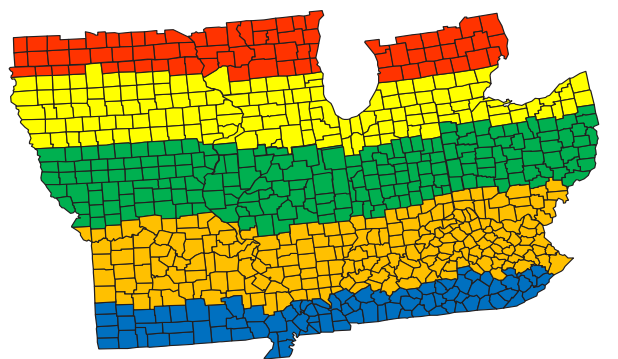


Benefits

Limited	Excellent
Increase Organic Matter	
Scavenge Nutrients	
Reduce Compaction	
Improve Soil Tilth	
Improve Soil Structure	
Fall Weed Suppression	
Spring Weed Suppression	
Species Diversity	



Last planting date

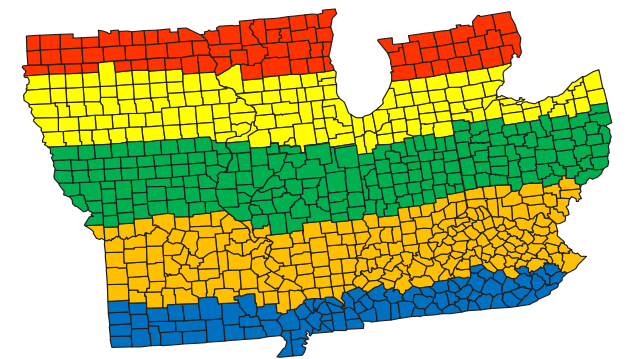


1	2	3	4	5
Sept. 1	Sept. 1	Sept. 15	Sept. 20	Sept. 20

Management

Overall Management Level	Medium
Over Wintering Ability	Medium
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Recommended
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Good
Seeding Depth	1/4" deep

Last planting date



1	2	3	4	5
Sept 15	Sept 30	Sept 30	Oct 10	Oct 10

Management

Overall Management Level	Medium
Over Wintering Ability	Excellent
Seeding into Corn	Highly Recommended
Seeding into Soybeans	Highly Recommended
Seeding before Corn	Need Experience
Seeding before Soybeans	Highly Recommended
Fall Forage	Very Good
Spring Forage	Very Good
Seeding Depth	1/2" deep

Termination

reCLAIM radish winter kills around 15 degrees. Adding one pint of 2,4-D type of herbicide will terminate the crimson clover, balansa clover, and radishes that may have over wintered.

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	14 lbs.	20 lbs.
Broadcast	16 lbs.	24 lbs.
Aerial	16 lbs.	24 lbs.
Precision Planting	11 lbs.	17 lbs.



Termination

reCLAIM radish winter kills around 15 degrees while rapeseed requires about 5 degrees. The over wintering of Barley and Rapeseed will be variable from year to year. Use full rates of glyphosate for termination. If the radish or rapeseed overwinters you will need to add one pint of 2,4-D.

Recommended Seeding Rates

Seeding Method	Pounds per Acre	
	General	Forage
Drilling	35 lbs.	50 lbs.
Broadcast	45 lbs.	60 lbs.
Aerial	45 lbs.	60 lbs.
Precision Planting	30 lbs.	40 lbs.



	Bag Size	Seeding Rate	Comments
Alfalfa			
◆ Eldora II CT Alfalfa	50 lb.	18-22	HR to Aphanomyces Race 2, high yield, Branch Rooted
Entree RL CT Alfalfa	50 lb.	18-22	Reduced lignin, high digestibility, longer harvest time
◆ L-446RR CT Alfalfa	50 lb.	18-22	Round-Up tolerant, great for problem field, good yield
HopperNot CT Alfalfa	50 lb.	18-22	Leaf hopper resistance, fits medium to long rotations
HybriForce 3400 UCT Alfalfa	50 lb.	18-22	High Yielding hybrid, harvest flexibility, high quality
HybriForce 2420 Wet UCT	50 lb.	18-22	Branch rooted hybrid alfalfa, high traffic tolerance
◆ 2200 UCT Alfalfa	50 lb.	18-22	Economical blend, Uncoated

Key CT-Coated Seed, UCT-Uncoated Seed

Clover			
Freedom Med Red Clover CT	25 lb.	15-20	Fast drying multi-year variety, great for dry hay
◆ Medium Red Clover CT	50 lb.	15-20	Short lived red clover
◆ Ever Graze White Clover CT	50 lb.	2-5	Ladino, excellent heat tolerance, grazing persistence
◆ Ladino White Clover	50 lb.	8-10	Great for conservation projects
◆ Frosty Berseem Clover	50 lb.	8-12	Late maturing, Multicut annual clover, high nitrogen fixation
◆ Alsike Clover	50 lb.	6-8	Good for wet pastures
Yellow Blossom Sweet Clover	50 lb.	15-25	Good for soil building
Mammoth Red Clover	50 lb.	15-20	Good for soil building
Red & White Clover Mix	25 lb.	6-10	70% Freedom Red, 30% EverGraze White

Orchard Grass			
HLR Orchard Grass	25 lb.	5-20	Late maturing, high quality, leafy, disease resistant
Alpine II Orchard grass	50 lb.	5-20	Late maturing for hay and grazing

Tall Fescue			
STF 43 Tall Fescue	50 lb.	25-35	A blend of soft leaf, palatable fescues, hay & graze
◆ Bar Optima + E-34	25 lb.	25-35	Endophyte friendly, high quality, great for stockpiling
Fawn Tall Fescue	50 lb.	25-35	Great for soil holding capabilities

Timothy			
◆ Barfleo Timothy	50 lb.	10-15	Late maturing, high yielding, hay & graze type

Perennial Ryegrass			
◆ BG-24T Per Ryegrass	50 lb.	30-40	Excels in quality, palatability, tetra & di-ploid blend

Festulolium			
Hostyn Festulolium	50 lb.	25-35	Medium-maturing, ryegrass type, excellent yield
Fojitan Festulolium	50 lb.	25-35	Med-late maturity, tall fescue type, high feed value

Other			
Green Spirit Italian Ryegrass	50 lb.	35-45	Italian Rye blend, high yields, great overall performance
Centurion Annual Ryegrass	50 lb.	35-45	High feed value, outstanding winter-hardiness
◆ Smooth Brome	50 lb.	30-40	Dependable, best for waterway seeding
◆ Palaton Reed Canary grass	50 lb.	12-18	Very wet & drought tolerant, low alkaloid
Waterway Mix	25 lb.	35-50	65%TF, 15%T, 15%PRG, 5%ARG
◆ Birdsfoot Trefoil	50 lb.	6-8	Late maturing legume that works well on low ph and wet soils
◆ Chicory	50 lb.	2-5	Deep tap root, breaks up hard pans, high value feed

◆ Available on a per pound basis, may be subject to split-bag charge

◆ **Special Order Item No Returns or Cancellations and may incur additional shipping charges**

	Bag Size	Seeding Rate	Seed Alone or with a Legume
Hay & Pasture Mixes			
ProMix Hay Mix	25 lb.	25	65%ALF, 25%OG, 10%T
All Grass Hay Mix	25 lb.	25-35	55%FTM, 40%OG, 5%T
HayMaster Hay Mix	50 lb.	30-40	75%TF, 20%OG, 5%T
BeefMaster Pasture Mix	50 lb.	25-35	50%TF, 20%PRG, 20%OG, 10%WC
StockMaster Pasture Mix	50 lb.	25-35	40%PRG, 35%TF, 25%OG
Quick-to-Grow	25 lb.	30-40	50%FTM, 25%PRG, 15% IRG 5%RC, 5%WC
Grasshancer 300FL	50 lb.	20-35	100% FTM Blends
Grasshancer 300FLC*	50 lb.	20-35	85%FTM, 11%RC, 4%WC

***Frost Seeding Formula; coated and treated**

ALF-Alfalfa, PRG-Perennial Rye Grass, OG-Orchard Grass, TF-Tall Fescue, IRG Italian RyeGrass

T-Timothy, RC-Red Clover, WC-White Clover, FTM-Festulolium

Summer Annuals			
◆ AF 7101 BMR Forage Sorghum	50 lb.	10	Gene 6, 85-90 day crop, Concept safener treated
AS 6402 BMR Sorghum-Sudan	50 lb.	40-50	Gene 6, Brachytic dwarf more leaves, treated
◆ AS 5501 Sorghum-Sudan	50 lb.	40-50	A standard mid-rib, great drought tolerance
HayKing II Hybrid Sudan Grass	50 lb.	25-30	Gene 6, fast dry down, hybrid Sudan grass
Leafy 22 Pearl Millet	50 lb.	25-35	Forage type hybrid pearl millet, graze or hay, no prussic acid threat
◆ Teff Grass	50 lb.	6-12	Forage type, great tonnage and quality combination

Cover Crops			
◆ AwakeN Blend	50 lb.	30-50	8 way mix of Cover Crop seeds
Bonus Blend	50 lb.	35-45	70% Winter Rye, 20% Fall Barley, 5% Radishes, 5% Rape
Land & Livestock	50 lb.	50-65	92% Winter Rye, 8% Radish
Quick Cover Blend	50 lb.	25-35	85% Oats, 15% Cover Crop Radish
◆ N-Fix Blend	50 lb.	11-17	20% Radish, 50% Crimson Clover, 30% Fixation Clover
Secure Blend	50 lb.	15-18	80% Annual RyeGrass, 20% Cover Crop Radish
reCLAIM Radishes	50 lb.	6-10	Deep tuber & taproot, excellent nutrient retention
Centurion Annual Ryegrass	50 lb.	12-15	A winter hardy variety with good roots
reSTORE Winter Rye (Cereal)	56 lb.	45-84	Premium Cleaned Seed, higher purity
Winter Rye (Cereal)	56 lb.	45-84	Cover crop & spring grazing
Tritical	48 lb.	45-84	Cross of wheat & rye for forage and cover crop
◆ Barley (Fall)	48 lb.	50-75	Excellent for forage & grain
◆ Hairy Vetch (Inoc)	50 lb.	15-20	Good top growth, high nitrogen fixation
◆ Buckwheat	50 lb.	30	Good for cover crops or as a green manure
◆ Fixation Balansa Clover	50 lb.	6-10	Annual legume, manage like Crimson
Crimson Clover	50 lb.	15-20	Annual clover, good for cover crop, organic matter

Brassicas			
Barkant Turnips	25 lb.	4-5	High leaf & tankard bulb shaped variety
◆ Purple Top Turnips	50 lb.	4-5	Excellent for grazing, high protein
Dwarf Essex Rapeseed	50 lb.	4-5	Turnip like top with no bulb, multiple grazing ability
Winfred Forage Brassica	55 lb.	4-5	Turnip like top with no bulb, lives until -5 degrees F
◆ Brassica Mix	50 lb.	5-10	50% Radish, 25% Turnip, 25% Rape

Miscellaneous Forages			
◆ Forage/Winter Peas	50 lb.	100	Spring, Summer & Fall Forage Peas
◆ Cowpeas	50 lb.	40-80	Drought tolerant, Good source of N
Spring Oats	50 lb.	50-70	Saber, Shelby 427
Forage Oats	48 lb.	80-100	Very leafy, forage type, high quality and yield
◆ Oats & Peas	50 lb.	100	Early spring growth, good hay and grazing

Availability is subject to change without notice

**Increase Cover Crop seeding rates by 25% for Aerial or Broadcast Seeding
Increase seeding rates of Cover Crops by 50% if Grazing**

PRO HARVEST SEEDS[®]

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