



Fall Product Overview

Tillage Radishes

- Excellent nutrient storage device
- Compaction reliever and soil aerators
- Great for making a transition to no-till
- Save fuel and tillage costs
- Increase water infiltration
- Will take up left over Nitrogen in fall and release it early spring
- Outstanding winter annual weed control



Cover Crop option:

Plant with Wheat

Preliminary farmer results have indicated a favorable yield response by adding 2 lbs of Tillage Radish with early planted wheat for grain. It is not clear what aspect is generating this advantage but it seems it may be an (N) release in the spring. Tillage Radish may simply be mixed with wheat seed or put in the small seed box if the drill has one. We are continuing to research this unique concept of using Tillage Radish in combination with wheat for grain.



Soak up the (N)! - Spread Manure

Many farmers, who have manure to spread in the fall, are using Tillage Radish to soak up the (N) and hold it over to when it's needed in the spring. It's better than rye in that it returns nearly all the (N) the manure had. Ryegrass does not do this. Ideally manure should be spread before planting Tillage Radish. However, manure has successfully been surface applied after Tillage Radish is at least 4" tall provided the rate is not too high.

More information about tillage radishes check out the website: tillageradish.com

Green Spirit Italian Ryegrass

- Quick establishing fall cover
- Blend of diploid and tetraploid Italian Ryegrass
- Tetraploid– higher fresh yield, moisture content, broader leaves, and more disease resistant
- Diploid– More persistent and winter hardy
- High NDFd will result in the following
 - Less acidosis
 - Less laminitis
 - Improved breeding
- NDFd 10 - 15% higher than alfalfa
- Late spring heading compared to annual ryegrass
- Excellent nutrient recycling when planted in the fall, better P uptake than corn silage
- Seed 60 days prior to killing frost



Fall Triticale

- Excellent soil conditioner
- High quality forage producer
- High nutrient utilization potential
- Insect and weed pressure reduction



Triticale vs. Wheat

- High yield– 40% higher than wheat
- Better window of harvest
- Overall better nutrition
- Yield comparable to corn silage at soft dough stage
- Excellent dry cow and heifer feed at soft dough stage

KB Royal Annual Ryegrass

- Scavenges available residual nutrients
- Excellent source of livestock forage
- Improved winter hardiness
- Deep rooting, up to 48 inches, breaks up hard, compacted soil



KB Royal is annual ryegrass that has been bred especially for cover crop applications. It is a deep rooting annual ryegrass that scavenges nitrogen and other left over nutrients, converting them into an organic form that will keep them from leaching through the winter. This nutrient cycling translates into bigger harvests and better profits.

Forage Quality of Green Spirit Italian Ryegrass Compared to Conventional Rotational Options

Forage Quality Parameters (Average)				
2007 Forage Crop	Protein (% DM)	NDF (%DM)	NDFd (%NDF)	Lbs milk/ton
Green Spirit - 25 Day Cut	23.8	45.7	73.3	3,370
Green Spirit - 35 Day Cut	22.4	47.4	73.7	3,410
Alfalfa	24.1	33.2	49.4	3,252
Corn Silage	7.0	46.8	53.8	3,309

Forage Quality Parameters (Average)				
2008 Forage Crop	Protein (% DM)	NDF (%DM)	NDFd (%NDF)	Lbs milk/ton
Green Spirit - 25 Day Cut	21.7	43.9	77.0	3,615
Green Spirit - 35 Day Cut	16.9	46.8	71.7	3,468
Alfalfa	27.2	26.7	59.9	3,975
Corn Silage	7.0	48.3	59.9	3,249

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