

Cover Crops

Soil First®

EMERGENCY FORAGE OPTION	DM TONS/ACRE	EARLIEST PLANTING DATE (AS COVER CROP)
Annual Ryegrass	.5 - 2	July 10
Fall (Cereal) Rye	2.5 - .3.5	July 10
Winter Wheat	2 - 3	July 10
Winter Triticale	2.5 - .3.5	July 10
Spring Barley	2 - .3.5	July 10
Spring Oats	3 - 6	July 10
German/Foxtail Millet	2 - 4	May 20
Pearl Millet	3 - 7	May 20
Sorghum x Sudangrass	5 - 8	May 20
Sudangrass	2 - 6	May 20
Teff Grass	3 - 5	May 20

BROADLEAVES		
Sunflowers	2 - 3	June 1
Buckwheat	1.5 - 4	June 1

LEGUMES		
Crimson Clover	.5 - 2	July 25
Red Clover	2 - 5	July 25
Balansa Clover	1 - 4	July 25
Berseem Clover	1 - 2.5	July 25
Cowpea	1.5 - 3	May 1
Winter Peas	1.5 - 3	July 25
Hairy Vetch	1 - 3	July 25
Sunn Hemp	1 - 5	June 1

BRASSICAS		
Daikon Radish	2 - 4	July 25
Turnip	2 - 5	July 25
Rapeseed	1.5 - 3	July 25

SOIL FIRST® MIXES		
SF 101 Cover Starter	2 - 3.5	August 1
SF 102 Cover Starter +	3 - 5	August 1
SF 120 Extender	2 - 4	August 1
SF 125 N-Hancer	3 - 5	July 1
SF 140 Multi-Purpose	1 - 3	July 1
SF 142 Classic	1 - 3	August 1
SF 150 Field Fit	2 - 4	August 1
SF 160 Rooting	1 - 2	August 1
SF 165 Late Grazer	3 - 6	July 1
SF 167 Summer Grazer	3 - 6	July 1
SF 175 AccuSpread	1 - 3	August 1
SF 180 Shifter	2 - 4	August 1

COVER CROP MIXTURES	MIX COMPONENTS	SEEDING RATE
SF 101 Cover Starter	• Low risk, starter mix • Ideal for fall manure applications • Winter-hardy rye with excess nitrogen	Guardian™ Fall Rye + Soil First® Select Radish Drill: 30-35 lbs/acre Brdcast: 40-50 lbs/acre
SF 102 Cover Starter +	• Perfect before either corn or soybeans • Good for prevent plant • Ideal for Southern Corn Belt	Guardian™ Fall Rye + Soil First® Select Radish + Crimson Clover Drill: 30-35 lbs/acre Brdcast: 40-50 lbs/acre
SF 120 Extender	• Mix components equal up to 120 days of grazing when added together • Extended ground cover (7-8 mths.)	Hy Octane Triticale + Fixation Balansa Clover + Soil First® Select Radish Drill: 35-40 lbs/acre Brdcast: 40-50 lbs/acre
SF 125 N-Hancer	• Relatively low risk mix • Ideal as fall forage mix • Strong nitrogen fixing mix	Spring Oats + Soil First® Select Radish + Fixation Balansa Clover + Peas + Crimson Clover Drill: 35-40 lbs/acre Brdcast: 40-50 lbs/acre
SF 140 Multi-Purpose	• Position for early seeding • Late fall silage opportunity • Ideal for beef/non-lactating dairy	Winter Triticale + Soil First® Select Radish + Vivant Brassica + Forage Collards + Peas Drill: 35-40 lbs/acre Brdcast: 40-50 lbs/acre
SF 142 Classic	• Low risk option as minimal spring management is needed • Plant early to maximize production	Crimson Clover + Soil First® Select Radish Drill: 12-15 lbs/acre Brdcast: 15-20 lbs/acre
SF 150 Field Fit	• Ideal for low spring management • Excellent option for multiple grazing periods in the fall	Spring Oats + Soil First® Select Radish + Turnips Drill: 30-35 lbs/acre Brdcast: 40-50 lbs/acre
SF 160 Rooting	• Best combination for breaking up compaction and catching leftover nutrients • Perfect in manure systems	ColdSnap™ Annual Ryegrass + Soil First® Select Radish Drill: 15-20 lbs/acre Brdcast: 20-25 lbs/acre
SF 165 Late Grazer	• Tolerates poor soil environments • Formulated for fall grazing • No threat of prussic acid poisoning	Pearl Millet + Sunn Hemp + Soil First® Select Radish Drill: 20-25 lbs/acre Brdcast: NR
SF 167 Summer Grazer	• Tolerates poor soil environments • Formulated for fall grazing • Sorghum x sudangrass offers increased tonnage in warm and dry climates	Sorghum x Sudangrass + Sunn Hemp + Soil First® Select Radish Drill: 25-30 lbs/acre Brdcast: NR
SF 175 AccuSpread	• Facilitates more accurate seeding patterns in broadcast applications • Offers best combination for compaction alleviation & nutrient scavenging	ColdSnap™ Annual Ryegrass + Crimson Clover + Soil First® Select Radish Drill: 20-25 lbs/acre Brdcast: 25-30 lbs/acre
SF 180 Shifter	• Will lead to greater biomass production • Perfect for catching and later releasing nutrients needed by cash crops	ColdSnap™ Annual Ryegrass + Fixation Balansa Clover + Soil First® Select Radish Drill: 20-25 lbs/acre Brdcast: 25-30 lbs/acre

COMPONENT VARIETIES	SEEDING RATE
Guardian™ Fall Rye Grain	• Screened for purity and cleanliness • Excellent germination and early vigor • Strong winter hardiness • Glyphosate application or crimp at pollination will kill crop Drill: 30 - 100 lbs/acre (varies by goal) Forage: 80 - 120 lbs/acre
Hy Octane Winter Triticale	• Reduced awned variety to aid in livestock palatability • Outstanding grain yield potential • Excellent standability • Good early season vigor and early heading date Drill: 30 - 100 lbs/acre (varies by goal) Forage: 80 - 120 lbs/acre
Soil First® Select Radish	• Daikon radish with single, long taproot • Designed for and evaluated across the Midwest • Perfect for extending grazing season into fall and early winter Forage: 8 - 12 lbs/acre
ColdSnap™ Annual Ryegrass	• Suitable for grazing or chopping in fall or spring • Heavy DM producer with outstanding quality • Great for extending alfalfa or legume stands • History of outstanding forage production in Midwest and South Forage: 25 - 35 lbs/acre

Which Cereal Grain Do I Plant for Forage?

RYE GRAIN
• Easiest cereal grain to establish in poor soil • Greatest cold tolerance • Greatest production for hay or pasture due to quick growth in fall/spring
BEST USE
• Fall, Winter and Spring Pasture

TRITICALE
• Higher in quality than rye, triticale and oats, but not barley • Usually produces more dry matter than barley
BEST USE
• Fall and Spring Pasture • Silage and Hay (boot to dough stage)

WINTER BARLEY
• Most susceptible to winterkill of cereal grains • Value as silage crop most comparable to whole-plant corn (90 - 100%)
BEST USE
• Fall Pasture • Silage and Hay (boot to dough stage)

SPRING OATS
• Can be planted in fall if early enough for 60 - 90 day production
BEST USE
• Silage (milk to dough stage) • Hay (boot to heading stage)