



Solving the
SOIL HEALTH
Puzzle?

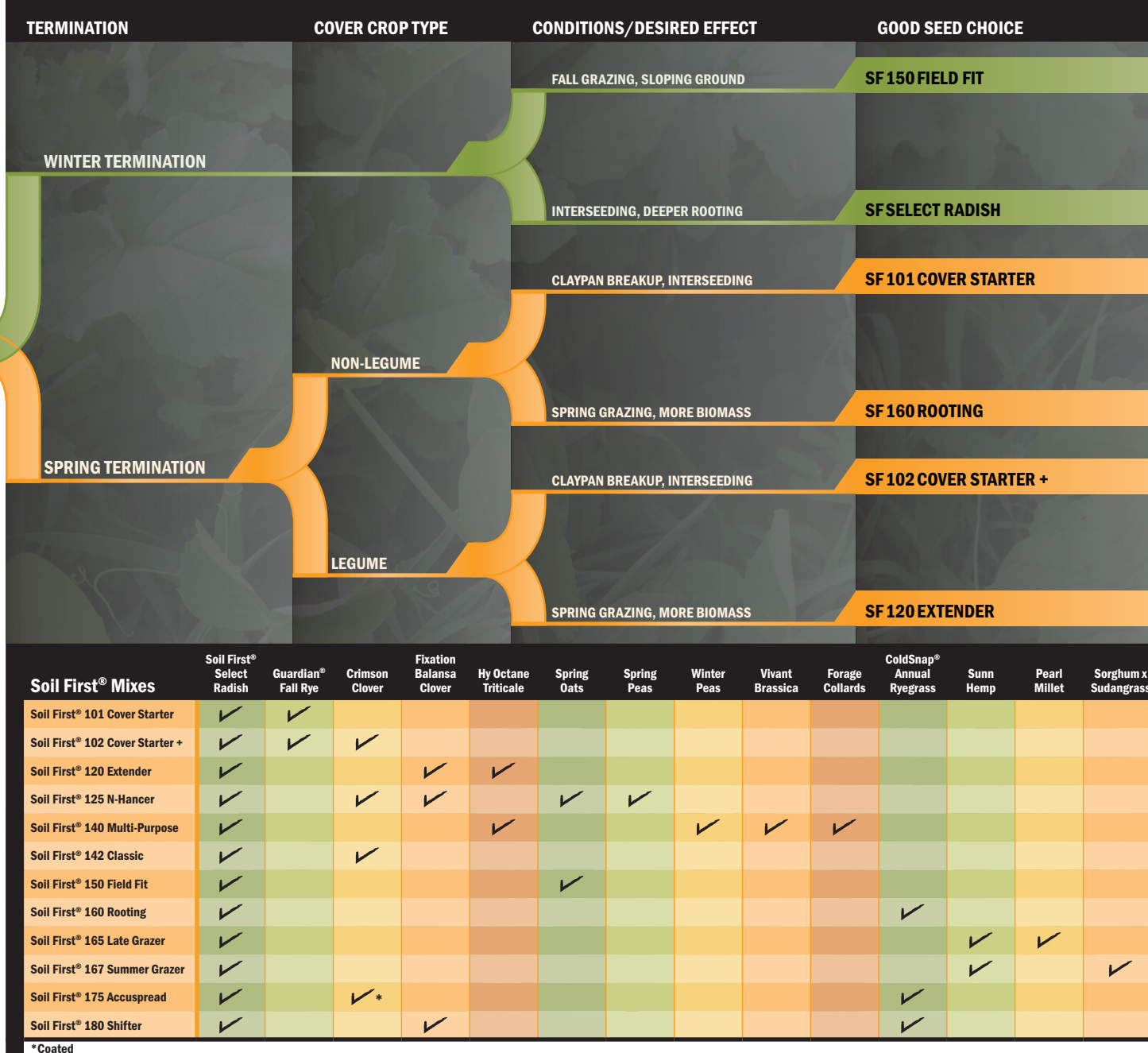
**WE
HAVE
YOU
COVERED**

Soil First[®]
PREMIUM
COVER CROP SEED

Soil First[®] PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS
AFTER **CORN GRAIN**
GOING TO **SOYBEANS**



QUICK REFERENCE GUIDE TO SOIL FIRST[®] COVER CROP MIXES

Every Soil First[®] brand cover crop mix contains Soil First[®] Select Radish. Each Soil First[®] mix contains select varieties or species of cover crops that work together to provide a range of benefits when used as part of a well planned crop rotation. Results based on conditions.

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

AFTER **SOYBEANS**
GOING TO **CORN GRAIN***

Optional:
Adding Winter
Peas, Hairy Vetch
or Crimson Clover
to an existing mix
can help boost
nitrogen fixation
on fields where
corn will be
planted next.

QUICK REFERENCE GUIDE TO SOIL FIRST® COVER CROP MIXES

Every Soil First® brand
cover crop mix contains
Soil First® Select Radish.
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select varieties or species of
cover crops that work together
to provide a range of benefits
when used as part of a well
planned crop rotation. Results
based on conditions.

TERMINATION	CONDITIONS/DESIRED EFFECT										GOOD SEED CHOICE			
WINTER TERMINATION	FALL GRAZING, SLOPING GROUND										SF 150 FIELD FIT			
	DEEPER ROOTING										SFSELECT RADISH			
SPRING TERMINATION	NO PREPLANT OR STARTER N										SF 142 CLASSIC			
	CLAYPAN BREAKUP, LARGE N CARRYOVER										SF 102 COVER STARTER +			
	SPRING GRAZING										SF 120 EXTENDER			
Soil First® Mixes	Soil First® Select Radish	Guardian® Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap® Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			
* Coated														

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

AFTER CORN SILAGE*

Optional:
Adding Winter
Peas, Hairy Vetch
or Crimson Clover
to an existing mix
can help boost
nitrogen fixation
on fields where
corn will be
planted next.

QUICK REFERENCE GUIDE TO SOIL FIRST® COVER CROP MIXES

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planned crop rotation. Results
based on conditions.

FERTILITY	TERMINATION	CONDITIONS/DESIRED EFFECT	GOOD SEED CHOICE
MANURED	WINTER TERMINATION	FALL GRAZING, SLOPING GROUND	SF 150 FIELD FIT
		INTERSEEDING, DEEPER ROOTING	SF SELECT RADISH
		SPRING GRAZING	SF 120 EXTENDER
	SPRING TERMINATION	CLAYPAN BREAKUP	SF 101 COVER STARTER
		FALL GRAZING, SLOPING GROUND	SF 150 FIELD FIT
		INTERSEEDING, DEEPER ROOTING	SF SELECT RADISH
NO N FERTILIZER APPLIED	WINTER TERMINATION	EARLY N AVAILABLE IN SPRING	SF 142 CLASSIC
		CLAYPAN BREAKUP	SF 102 COVER STARTER +
		SPRING GRAZING	SF 120 EXTENDER
	SPRING TERMINATION		

Soil First® Mixes	Soil First® Select Radish	Guardian® Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap® Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			

* Coated

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

AFTER **WHEAT**
GOING TO **CORN**

Optional:
Adding Winter
Peas, Hairy Vetch
or Crimson Clover
to an existing mix
can help boost
nitrogen fixation
on fields where
corn will be
planted next.

QUICK REFERENCE GUIDE TO SOIL FIRST® COVER CROP MIXES

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cover crops that work together
to provide a range of benefits
when used as part of a well
planned crop rotation. Results
based on conditions.

FERTILITY	TERMINATION	CONDITIONS/ DESIRED EFFECT	TYPE	GOOD SEED CHOICE
MANURED	WINTER TERMINATION	FALL GRAZING, SLOPING GROUND		SF 150 FIELD FIT
		DEEPER ROOTING		SF SELECT RADISH
		SPRING GRAZING		SF 120 EXTENDER
	SPRING TERMINATION	CLAYPAN BREAKUP		SF 101 COVER STARTER
		FALL GRAZING, SLOPING GROUND	LEGUME	SF 165 LATE GRAZER or SF 167 SUMMER GRAZER
		INTERSEEDING, DEEPER ROOTING	NON-LEGUME	SF 150 FIELD FIT SF SELECT RADISH
NO N FERTILIZER APPLIED	WINTER TERMINATION	EARLY N AVAILABLE IN SPRING		SF 142 CLASSIC
		CLAYPAN BREAKUP		SF 102 COVER STARTER +
	SPRING TERMINATION	CLAYPAN BREAKUP		SF 102 COVER STARTER +
		SPRING GRAZING		SF 120 EXTENDER

Soil First® Mixes	Soil First® Select Radish	Guardian® Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap® Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			

*Coated

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

FOR PREVENTED PLANTING

Optional:
Adding Winter Peas, Hairy Vetch or Crimson Clover to an existing mix can help boost nitrogen fixation on fields where corn will be planted next.

FERTILITY

PLANTING WINDOW

TERMINATION/FORAGE

GOOD SEED CHOICE

NOTE:
SEEDING RATE
ADJUSTMENTS

N APPLIED

BEFORE JULY 15

SORGHUM x SUDANGRASS

WINTER TERMINATION

SF 167 SUMMER GRAZER

AFTER JULY 15

- NOTE:
If seeding after August 15th,
please use the Decision Tree
that applies to the crop that
will be produced next year.

FALL & SPRING FORAGE

**COLDSNAP® ANNUAL RYEGRASS[†] &
SF 101 COVER STARTER**

50/50 AT
30 LBS/ACRE

BEFORE JULY 15

SUNN HEMP

NO N FERTILIZER APPLIED

WINTER TERMINATION

SF 167 LATE GRAZER

AFTER JULY 15

SPRING TERMINATION

SF 102 COVER STARTER +

- NOTE:
If seeding after August 15th,
please use the Decision Tree
that applies to the crop that
will be produced next year.

FALL & SPRING FORAGE

**HY OCTANE WINTER TRITICALE[†] &
SF 120 EXTENDER**

50/50 AT
120 LBS/ACRE

Soil First® Mixes

Soil First®

Select
Radish

Guardian®
Fall Rye

Crimson
Clover

Fixation
Balansa
Clover

Hy Octane
Triticale

Spring
Oats

Spring
Peas

Winter
Peas

Vivant
Brassica

Forage
Collards

ColdSnap®
Annual
Ryegrass

Sunn
Hemp

Pearl
Millet

Sorghum x
Sudangrass

Soil First® 101 Cover Starter

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Soil First® 102 Cover Starter +

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Soil First® 140 Multi-Purpose

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Soil First® 167 Summer Grazer

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Soil First® 175 Accuspread

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Soil First® 180 Shifter

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*Coated

QUICK REFERENCE GUIDE TO SOIL FIRST® COVER CROP MIXES

Every Soil First® brand cover crop mix contains Soil First® Select Radish. Each Soil First® mix contains select varieties or species of cover crops that work together to provide a range of benefits when used as part of a well planned crop rotation. Results based on conditions.

†IMPORTANT NOTE:

May winter-terminate when planted in July or August if growth is more than 12 inches in height at freeze up.

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

FOR REMEDIATION

Optional:
Adding Winter
Peas, Hairy Vetch
or Crimson Clover
to an existing mix
can help boost
nitrogen fixation
on fields where
corn will be
planted next.

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FERTILITY	PLANTING WINDOW	TERMINATION/ FORAGE	CONDITIONS/ DESIRED EFFECTS	GOOD SEED CHOICE
N APPLIED	BEFORE JULY 15			SORGHUM x SUDANGRASS
	AFTER JULY 15	WINTER TERMINATION	SLOPING GROUND	SF 150 FIELD FIT
			WITH LEGUME	SF 167 SUMMER GRAZER
		SPRING TERMINATION	CLAYPAN BREAKUP	SF 101 COVER STARTER
			GRAZING/ SPRING FORAGE	SF 120 EXTENDER
		- NOTE: If seeding after August 15th, please use the Decision Tree that applies to the crop that will be produced next year.		
NO N FERTILIZER APPLIED	BEFORE JULY 15			SUNN HEMP
	AFTER JULY 15	WINTER TERMINATION		SF 165 LATE GRAZER or SF 167 SUMMER GRAZER
		SPRING TERMINATION		SF 102 COVER STARTER +
			FALL & SPRING FORAGE	SF 120 EXTENDER
		- NOTE: If seeding after August 15th, please use the Decision Tree that applies to the crop that will be produced next year.		

Soil First® Mixes	Soil First® Select Radish	Guardian® Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap® Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			

*Coated

*Coated

START

COVER CROPS
FOLLOWING
SEED CORN

CULTIVATION	COVER CROP PLANTING					TERMINATION/ CONDITIONS		CONDITIONS/ DESIRED EFFECT			GOOD SEED CHOICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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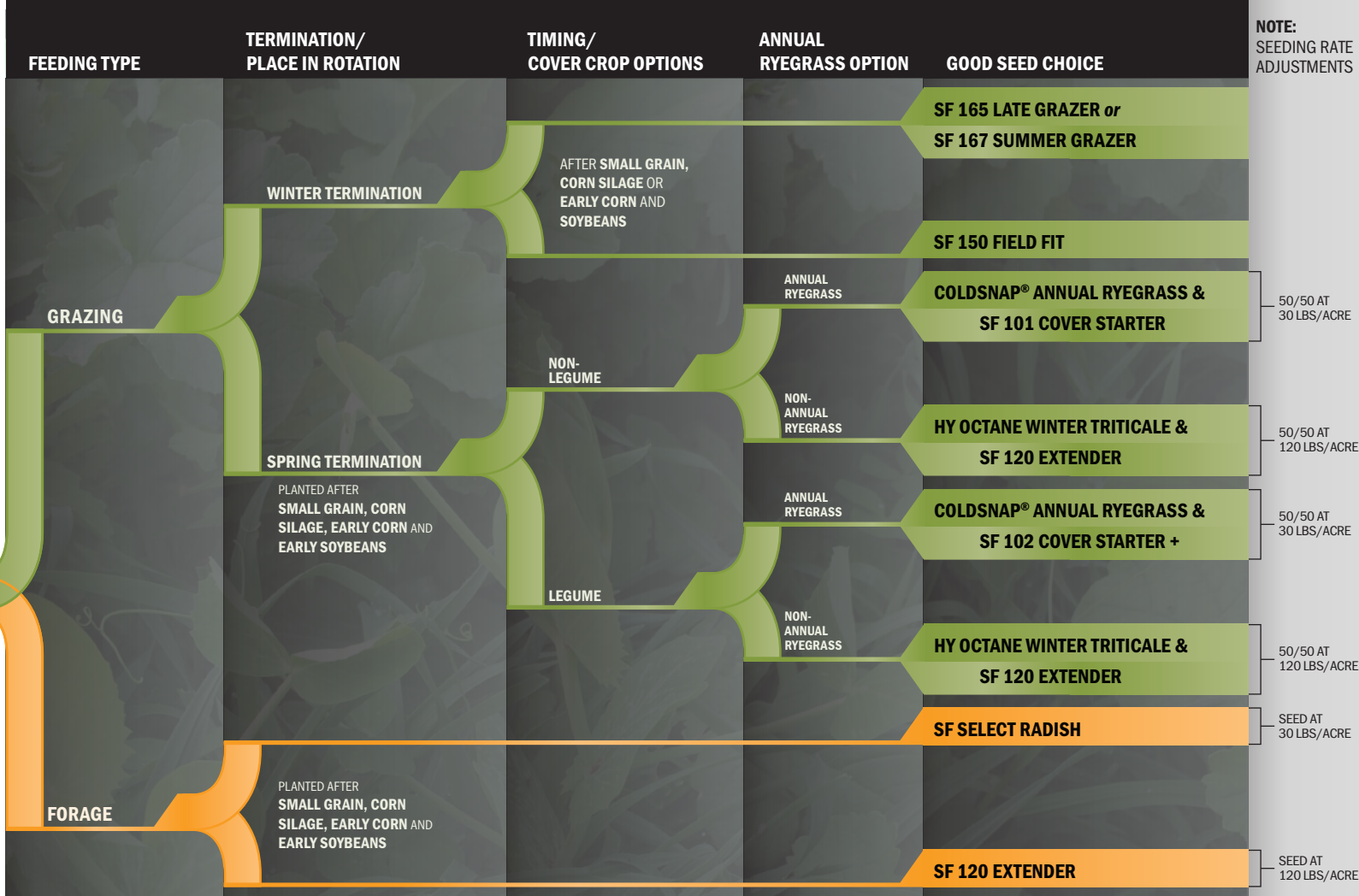
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Soil First[®] PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS
FOR FALL GRAZING
OR FORAGE HARVEST



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Soil First [®] Mixes	Soil First [®] Select Radish	Guardian [®] Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap [®] Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First [®] 101 Cover Starter	✓	✓												
Soil First [®] 102 Cover Starter +	✓	✓	✓											
Soil First [®] 120 Extender	✓			✓	✓									
Soil First [®] 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First [®] 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First [®] 142 Classic	✓		✓											
Soil First [®] 150 Field Fit	✓					✓								
Soil First [®] 160 Rooting	✓										✓			
Soil First [®] 165 Late Grazer	✓											✓	✓	
Soil First [®] 167 Summer Grazer	✓											✓		✓
Soil First [®] 175 Accuspread	✓		✓ *								✓			
Soil First [®] 180 Shifter	✓			✓							✓			

*Coated

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS

FOR SPRING GRAZING
OR FORAGE HARVEST

NOTES:

Adding Winter Peas, Hairy Vetch or Crimson Clover to an existing mix can help boost nitrogen fixation on fields where corn will be planted next.

FEEDING TYPE

PLACE IN ROTATION

COVER CROP OPTIONS

ANNUAL RYEGRASS OPTION

GOOD SEED CHOICE

NOTE:
SEEDING RATE
ADJUSTMENTS

GRAZING

PLANTED AFTER
SMALL GRAIN, CORN
SILAGE, EARLY CORN AND
EARLY SOYBEANS

NON-
LEGUME

ANNUAL
RYEGRASS

**COLDSNAP® ANNUAL RYEGRASS &
SF 101 COVER STARTER**

50/50 AT
30 LBS/ACRE

NON-
ANNUAL
RYEGRASS

**HY OCTANE WINTER TRITICALE &
SF 120 EXTENDER**

50/50 AT
120 LBS/ACRE

ANNUAL
RYEGRASS

**COLDSNAP® ANNUAL RYEGRASS &
SF 102 COVER STARTER +**

50/50 AT
30 LBS/ACRE

NON-
ANNUAL
RYEGRASS

**HY OCTANE WINTER TRITICALE &
SF 120 EXTENDER**

50/50 AT
120 LBS/ACRE

ANNUAL
RYEGRASS

**COLDSNAP® ANNUAL RYEGRASS &
SF 101 COVER STARTER**

50/50 AT
30 LBS/ACRE

NON-
ANNUAL
RYEGRASS

**HY OCTANE WINTER TRITICALE &
SF 120 EXTENDER**

50/50 AT
120 LBS/ACRE

ANNUAL
RYEGRASS

**COLDSNAP® ANNUAL RYEGRASS &
SF 102 COVER STARTER +**

50/50 AT
30 LBS/ACRE

NON-
ANNUAL
RYEGRASS

**HY OCTANE WINTER TRITICALE &
SF 120 EXTENDER**

50/50 AT
120 LBS/ACRE

HY OCTANE WINTER TRITICALE

SEED AT
120 LBS/ACRE

FORAGE

PLANTED AFTER
SMALL GRAIN, CORN
SILAGE, EARLY CORN AND
EARLY SOYBEANS

LEGUME

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Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			

*Coated

For Spring Grazing or Forage Harvest

Soil First® PREMIUM COVER CROP SEED DECISION TREE

START

COVER CROPS FOR EARLY VEGETABLES

Optional:
Adding Winter
Peas, Hairy Vetch
or Crimson Clover
to an existing mix
can help boost
nitrogen fixation
on fields where
corn will be
planted next.

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planned crop rotation. Results
based on conditions.

PLANTING WINDOW	ROTATION PLACE/ PLANTING WINDOW	TERMINATION	MANAGEMENT OPTIONS	GOOD SEED CHOICE
BEFORE JULY 15	GREEN MANURE TO FALL VEGETABLE CROP			SORGHUM x SUDANGRASS
	FALL SEEDING COVER CROP	WINTER TERMINATION		SF 165 LATE GRAZER <i>or</i> SF 167 SUMMER GRAZER
				RESEEDING POTENTIAL
AFTER JULY 15*		SPRING TERMINATION		
			NO RESEEDING POTENTIAL	HY OCTANE WINTER TRITICALE
		WINTER TERMINATION		SF 150 FIELD FIT
	UP TO 3 WEEKS BEFORE FIRST FROST		MULCH/ ROLLING-CRIMPING	SF 120 EXTENDER
		SPRING TERMINATION		
		TILLAGE†	SF 102 COVER STARTER +	
	UP TO 2 WEEKS AFTER FIRST FROST			HY OCTANE WINTER TRITICALE

Soil First® Mixes	Soil First® Select Radish	Guardian® Fall Rye	Crimson Clover	Fixation Balansa Clover	Hy Octane Triticale	Spring Oats	Spring Peas	Winter Peas	Vivant Brassica	Forage Collards	ColdSnap® Annual Ryegrass	Sunn Hemp	Pearl Millet	Sorghum x Sudangrass
Soil First® 101 Cover Starter	✓	✓												
Soil First® 102 Cover Starter +	✓	✓	✓											
Soil First® 120 Extender	✓			✓	✓									
Soil First® 125 N-Hancer	✓		✓	✓		✓	✓							
Soil First® 140 Multi-Purpose	✓				✓			✓	✓	✓				
Soil First® 142 Classic	✓		✓											
Soil First® 150 Field Fit	✓					✓								
Soil First® 160 Rooting	✓										✓			
Soil First® 165 Late Grazer	✓											✓	✓	
Soil First® 167 Summer Grazer	✓											✓		✓
Soil First® 175 Accuspread	✓		✓*								✓			
Soil First® 180 Shifter	✓			✓							✓			

*Coated

*Coated

†IMPORTANT NOTE:

Deep tillage will terminate the cover crop in most situations. Light tillage requires an herbicide application for cover crop termination.

**SOIL FIRST® 101
COVER STARTER****Guardian™ Fall Rye +
Soil First® Select Radish**

Simple and practical, a low-risk option for both early adopters and growers looking for more flexibility.

- **Low risk, starter mix**
- **Ideal for fall manure applications**
- **Winter-hardy rye with excess nitrogen**

**SOIL FIRST® 102
COVER STARTER +****Guardian™ Fall Rye
+ Soil First® Select Radish
+ Crimson Clover**

Building nitrogen and root mass while improving soil tilth and biomass potential.

- **Perfect before corn or soybeans**
- **Good for prevent plant**
- **Ideal for Southern Corn Belt**

**SOIL FIRST®
120 EXTENDER****Hy Octane Triticale
+ Fixation Balansa Clover
+ Soil First® Select Radish**

Extended soil coverage mixing traditional biomass options with the improved winter-hardiness and rooting potential of balansa clover.

- **Mix components equal up to 120 days of grazing**
- **Extended ground cover (7 - 8 mths.)**

**SOIL FIRST®
125 N-HANCER****Soil First® Select Radish
+ Spring Oats
+ Spring Peas
+ Fixation Balansa Clover
+ Crimson Clover**

Heavy legume mix intended for adding Nitrogen.

- **Relatively low risk mix**
- **Ideal as fall forage mix**
- **Strong nitrogen fixing mix**

**SOIL FIRST®
140 MULTI-PURPOSE****Vivant Brassica +
Soil First® Select Radish +
Hy Octane Winter Triticale +
Forage Collards + Winter Peas**

Formulated with the livestock grazer in mind, providing soil protection and biomass from fall through spring.

- **Early seeding/Late fall silage opportunity**
- **Ideal for beef/non-lactating dairy**

**SOIL FIRST®
142 CLASSIC****Crimson Clover +
Soil First® Select Radish**

Simple combination for early planting windows – double-crop, prevent plant, inter-seeding too.

- **Perfect before corn or soybeans**
- **Good for prevent plant**
- **Ideal for Southern Corn Belt**

**SOIL FIRST®
150 FIELD FIT****Spring Oats +
Soil First® Select Radish**

Straightforward and flexible mix for growers looking for very minimal spring management.

- **Ideal for low spring management**
- **Excellent option for multiple grazing periods in the fall**

**SOIL FIRST®
160 ROOTING****Soil First®
Select Radish +
ColdSnap™ Annual Ryegrass**

Sensible blend of radish and ryegrass developed for maximizing root mass and capturing nutrients.

- **Best combination for breaking up compaction and catching leftover nutrients**
- **Perfect in manure systems**

**SOIL FIRST®
165 LATE GRAZER****Soil First® Select Radish +
Pearl Millet + Sunn Hemp**

Seed in summer to tolerate warm temperatures while transitioning to a safe forage option into late fall.

- **Perfect before corn or soybeans**
- **Good for prevent plant**
- **Ideal for Southern Corn Belt**



SOIL FIRST® 167 SUMMER GRAZER



Soil First® Select Radish + Sorghum x Sudangrass + Sunn Hemp

Summer seeded mix where the focus is quick tonnage and over – biomass production.

- Tolerates poor soil environments
- Formulations for fall grazing
- Sorghum x sudangrass offers increased tonnage in warm and dry climates

SOIL FIRST® 175 ACCUSPREAD



Coated Crimson Clover + Soil First® Select Radish + Coated ColdSnap™ Annual Ryegrass

Coated clover and coated ryegrass equate to more uniform spread patterns and consistent germination in broadcast applications.

- Facilitates more accurate broadcast seeding patterns
- Best combination for compaction alleviation & nutrient scavenging

SOIL FIRST® 180 SHIFTER



Fixation Balansa Clover + Soil First® Select Radish + ColdSnap™ Annual Ryegrass

Three-way blend utilizing balansa clover for more consistent tolerance to cold temperatures and poor soil conditions.

- Will lead to greater biomass production
- Perfect for catching and later releasing nutrients needed by cash crops

ColdSnap® Annual Ryegrass



- Excellent for scavenging nutrients and holding them for following crop
- Known for its dense root structure for added compaction relief
- Provides a uniform stand maturity for easier spring control
- Slower to mature than cereal rye and other cereal grains ColdSnap® has been screened and selected for cover crop use
- Superior winter hardiness when compared to other annual ryegrasses

GUARDIAN® Fall Rye



Guardian™ Fall Rye is carefully screened to provide dependable results in cover cropping situations. Excellent germination and early vigor in cooler temperatures, combined with solid winter hardiness and quick spring green-up, make Guardian™ an excellent choice for a low-risk entry into cover cropping.

- Screened for purity and cleanliness
- Clear tag certified noxious weed free
- Sclerotinia (white mold) free
- Professionally grown for seed, not grain
- Strong winter hardiness
- Excellent germination and early vigor

Hy Octane Winter Triticale



Hy Octane is a new winter triticale variety that has shown favorable forage yield and winter hardiness across the Midwest. Hy Octane makes a great option for fall and winter grazing, extending the season far past brassicas or cool-season perennial grasses.

- Reduced awned variety to aid in livestock palatability
- Good early season vigor and earlier heading date than traditional varieties with excellent standability
- Allows greater flexibility for potential double cropping
- Medium Straw length allows for easier hay wilting and silage packaging

Soil First® Select Radish



A superior, deep, penetrating taproot separates Soil First® Select from other radish varieties - growing to a level of 3 - 6', based on soil type, region, and planting date. The upper portion of the taproot (or tuber) can grow to a length of 12 - 24". Select Radish will germinate in only a couple days when moisture is present. Evaluated across many different soil types and environments from the Northwest to across the upper Midwest and Transition Zone.

- Reduces compaction and improves drainage and air/water movement (through rapid spring decay)
- Soaks up and releases nitrogen and other nutrients in spring when cash crops need it most
- Winterkills with temperatures in the teens

KIND OF SEED	APPROX. SEEDS/LB	LBS/BU	PLANTING RATE LBS/ACRE	PLANTING RATE LBS/ACRE IN MIXES	SEEDING DEPTH	SUGGESTED PLANTING DATES	EMERGENCE TIME (DAYS)	PRIMARY USE	LIFE
Brassicas, Hybrid	165,000	N/A	4 - 6	2 - 3	¼"	Jul - Sep	4 - 6	Cover Crop	Annual
Cereal Rye Grain	18,000	56	30 - 50	20 - 40	¾" - 1"	Mar - Apr, Aug - Sep	5 - 8	Cover Crop	Annual
Clover, Balansa	500,000		3 - 6	1 - 4	¼"	Feb - Mar, Aug - Sep	14	Cover Crop	Perennial
Clover, Crimson	150,000	60	10 - 15	4 - 8	¼"	Aug - Oct	7 - 10	Cover Crop	Annual
Millet, Pearl	60,000	52	10 - 30	5 - 20	½" - 1"	May - Jul	3 - 5	Pasture, Silage	Annual
Oats, Spring, Fall	16,000	32	30 - 50	20 - 40	¾" - 1"	Mar - Apr, Aug - Sep	5 - 8	Cover Crop	Annual
Peas, Austrian Winter	2,000	60	30 - 80	10 - 30	1"	Aug - Sep	9	Cover Crop	Annual
Radish	35,000	N/A	3 - 8	1 - 3	¼" - ½"	Aug - Sep	14	Cover Crop	Annual
Ryegrass, Annual	227,000	24	15 - 30	10 - 15	¼"	Mar - Apr, Aug - Oct	7	Cover Crop	Annual
Ryegrass, Perennial	227,000	24	30 - 40	6 - 10	¼" - ½"	Feb - May, Aug - Sep	14	Hay, Pasture	Perennial
Sorghum x Sudangrass	21,000	56	25 - 50	5 - 20	¾" - 1 ½"	May - Jul	10	Hay, Pasture	Annual
Sorghum x Sudangrass BMR	21,000	56	15 - 35	N/A	1"	May - Jul	10	Hay, Pasture	Annual
Sunn Hemp	15,000	N/A	15	5 - 8	½" - 1"	Jul - Sep	3 - 7	Cover Crop	Annual
Triticale	15,000	48	30 - 50	20 - 40	¾" - 1"	Mar - Apr, Aug - Sep	6 - 8	Hay, Pasture	Annual
SOIL FIRST® COVER CROP MIX			PLANTING RATE LBS/ACRE	PLANTING RATE LBS/ACRE FOR FORAGE	SEEDING DEPTH (WITH DRILL)	SUGGESTED PLANTING DATES	EMERGENCE TIME (DAYS)	NITROGEN FIXES OR SCAVENGES	GERM SOIL TEMP (F)
Soil First® 101 Cover Starter			30 - 35	40 - 50	1/4" - 1"	See Soil First® Seed Guide	Varies	Scavenger	45°
Soil First® 102 Cover Starter			30 - 35	40 - 50	1/4" - 1"		Varies	Both	45°
Soil First® 120 Extender			35 - 40	40 - 50	1/4" - 1"		Varies	Both	45°
Soil First® 125 N-Hancer			35 - 40	40 - 50	1/4" - 1"		Varies	Fixer	45°
Soil First® 140 Multi-Purpose			35 - 40	40 - 50	1/4" - 1"		Varies	Both	45°
Soil First® 142 Classic			12 - 15	15 - 20	1/4" - 1/2"		Varies	Both	45°
Soil First® 150 Field Fit			30 - 35	40 - 50	1/4" - 1"		Varies	Scavenger	45°
Soil First® 160 Rooting			15 - 20	20 - 25	1/4" - 1/2"		Varies	Scavenger	45°
Soil First® 165 Late Grazer			20 - 25	20 - 25	1/4" - 1"		Varies	Both	60-65°
Soil First® 167 Summer Grazer			25 - 30	25 - 30	1/4" - 1"		Varies	Both	60-65°
Soil First® 175 AccuSpread			20 - 25	25 - 30	1/4" - 1/2"		Varies	Both	45°
Soil First® 180 Shifter			20 - 25	25 - 30	1/4" - 1/2"		Varies	Both	45°



Soil First[®]
PREMIUM
COVER CROP SEED

Brought to you by
LA CROSSE
SEED