



EASY
ESTABLISH



WEED
SUPPRESSION



EROSION
CONTROL

- Fast growing & very hardy
- Tolerant of poor soil conditions
- Fights soil erosion & helps suppress weeds when planted at heavier seeding rates

- Captures excess nutrients from cash crops
- Works well as a nurse crop with legumes
- Several methods for successful spring management
- Best use: fall, winter & spring pasture

Guardian[®] winter rye is an upright, cool season annual grass that germinates in cool conditions. Also known as “fall” or “cereal” rye, very few species offer the many benefits as winter rye while allowing extended planting flexibility long into the fall. Guardian[®] is an excellent choice for a low-risk entry into cover cropping.

**SECURE SOURCED
& SUPPLIED**

▶▶▶ **NITROGEN FIXER OR SCAVENGER?:** Scavenger

SEEDING INFORMATION

			LBS/ACRE*
MONO*	30 - 50	SEEDS/LB	16,000 - 18,000
MIX*	20 - 40	BULK DENSITY AVG	48 lbs/ft ³
FORAGE*	80 - 120	GERM SOIL TEMP	34° F
AERIAL APPLICATION*	20 - 60	DAYS TO EMERGENCE	5 - 8
SEEDING DEPTH (IN)	3/4 - 1	CARBON/NITROGEN RATIO	Vegetative 20:1

NUTRITIONAL VALUE: Varies greatly depending on maturity

	HAY	SILAGE	HAY	SILAGE
NEL¹ MCAL/LB	.58	.59	CRUDE PROTEIN	10 14
ADF%²	38	37	DM TONS/ACRE	3 - 5 2.5 - 4
NDF%³	65	59	DAYS TO FIRST HARVEST	Spring
TDN	58	59	DAYS TO NEXT HARVEST	°

HAY: GRAZE: + | BALEAGE: ++ | CHOP: +++

SILAGE: GRAZE: ° | BALEAGE: + | CHOP: +++ + Some Benefit | ++ More Benefit | +++ Best Benefit

¹- Net Energy for Lactation = Energy available after subtracting digestive and metabolic losses

²- Acid Detergent Fiber = Low values mean more digestible

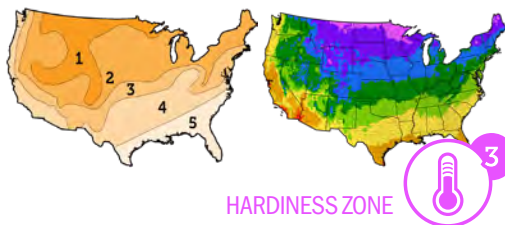
³- Neutral Detergent Fiber = Low values mean cows can eat more

CONSIDERATIONS

- Ideal pH = 5.0-7.0
- Quick spring growth can easily get away from many producers- have a plan to manage effectively
- Rye offers the advantage of being the easiest cereal grain to establish in poor soils and having the greatest cold tolerance. Rye offers the greatest production for hay or pasture ground because of its quick growth both in the fall and spring.

PLANTING WINDOW

- 1 NO LATER THAN SEPTEMBER 25
- 2 NO LATER THAN OCTOBER 5
- 3 NO LATER THAN OCTOBER 15
- 4 NO LATER THAN OCTOBER 25
- 5 NO LATER THAN NOVEMBER 1



HARDINESS ZONE

BENEFITS (1 = POOR, 5 = EXCELLENT)

COMPACTION ALLEVIATION	4
WEED SUPPRESSION	5
BIOMASS PRODUCTION	4
EROSION CONTROL	5
DISEASE/PEST CONTROL	3
POLLINATOR/BENEFICIALS	1
P & K CYCLING	4
EASE OF ESTABLISHMENT	4



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