



PGI 459 ALFALFA

Proven Genetic Innovation

Flexible Harvest Management

- ✓ 4- and 5-cut harvest systems during the growing season
- ✓ Fast Growth shaves 3-5 days off time to harvest – StandFast® Fast Growth
- ✓ Up to 20% more yield per harvest

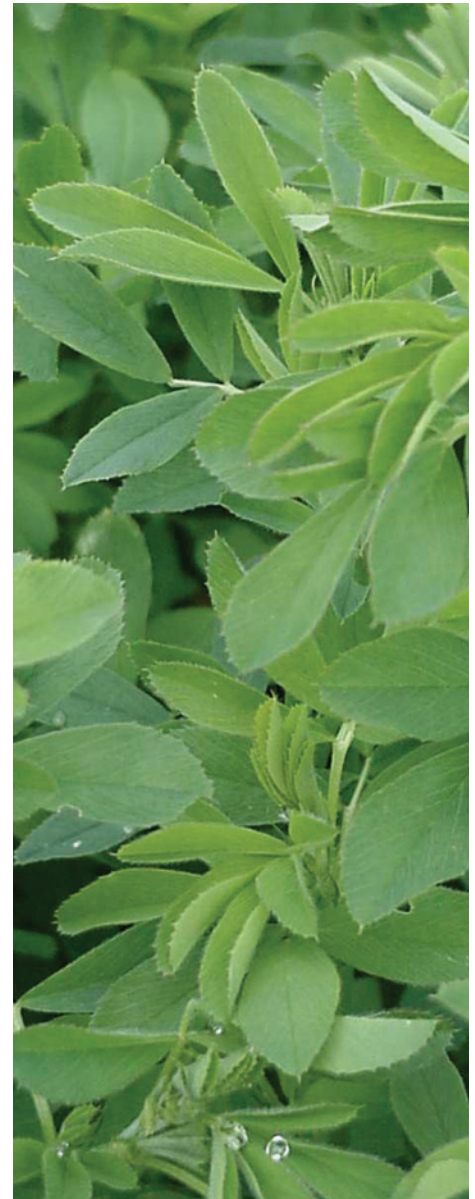


Management Profile

- Thrives on aggressive, best management practices for bigger second, third, fourth and fifth cuttings and yields
- Adapted to production zones where fall dormancy 3, 4 or 5 alfalfas are recommended

Harvest System	Tons/Acre	Milk/Ton Fed	Milk Acre
3-Cuts	5.6	2,765	15,448
4-Cuts	8.3	2,774	23,003
5-Cuts	9.6	3,245	30,971

- Recommended harvest by early flower to stay on schedule for maximum harvests each growing season
- Very early maturity
- Greenup after harvest is similar to conventional dormant alfalfas, but when growth begins, it's at an accelerated rate. The Fast Growth trait can produce an extra six inches of growth at 21 days and reach harvest maturity 3 to 5 days ahead of other alfalfas.
- When direct seeded in the spring, the Fast Growth trait begins to express on the recovery of the second crop. Summer or Fall seeding exhibits Fast Growth in the second year.



The StandFast Fast Growth Advantage



Average	+10%	+15%	+20%	+25%	+30%
Growth Rate					

- Up to 30% faster growth than competitive alfalfas
- 4 to 6 inches of extra growth in the first 21 days
- Bred for the demanding grower
- Non-GMO technology



PGI 459 delivers faster growth, early maturity, extra cuttings and more harvestable yield each season.

PRODUCER'S CHOICE[®]

The Alfalfa and Forage Seed Leader

PGI 459 Alfalfa

Performance For the Way You Farm

- Outstanding head to head yield performance versus the newest competitive varieties and technologies

Brand	Variety	PGI 459 Percent Yield Advantage				
America's Alfalfas	Ameristand 403T					5%
Dairyland	HybriForce-400		3%			
DeKalb	DKA 50-18	0%				
Pioneer	54H11					5%
Pioneer	54V46	0%				
Syngenta	Geneva	1%				
WL Research	WL 319HQ		3%			

Field Appearance at Harvest Maturity

- Medium-tall, upright with large, eye catching leaves
- Lush, healthy, medium-dark green plant color

Key Agronomic Characteristics

Fall Dormancy	4
Winter Hardiness Index	2
Multifoliate Leaf Expression	58%
Fast Growth Advantage*	30%
Wisconsin Disease Rating Index	33 of 35

Pest Package

		S	LR	MR	R	HR
Disease Ratings	Anthracnose					
	Aphanomyces Race I					
	Aphanomyces Race II					
	Bacterial Wilt					
	Fusarium Wilt					
	Phytophthora					
	Verticillium Wilt					
Insect Ratings	Pea Aphid					
	Spotted Alfalfa Aphid					

Ratings are based on average performance of the variety over a wide range of climate and soil types. Actual performance may be adversely affected by extreme conditions. Unless stated, ratings are based on standardized testing procedures endorsed by the North American Alfalfa Improvement Conference.

*Fast Growth: The Fast Growth percentage is calculated from weekly measurements of varieties growing side by side from greenup to harvest through the growing season.

StandFast® is a registered trademark of Cal/West Seeds with patent pending.



PGI 459 Alfalfa was developed from crossing unique, tall, fast-growing European germplasm, screened for U.S. adaptability, onto elite U.S. fall dormancy 4 plants selected for superior yield, forage quality and persistence. The resulting alfalfas express either faster growth and/or improved standability traits and are designated as StandFast Alfalfas.

PGI 459 has a measured 30% faster growth rate than other dormant alfalfas. With fewer days to maturity to produce bigger second, third, fourth and fifth cuttings.

Forage quality components CP, NDFD, ADF, RFQ are equal to best alfalfas. StandFast alfalfa is a non-GMO technology with patent pending and registered trademark.



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