

Hi-Gest 360 ALFALFA

A patent pending variety



Agronomics

Yield rating:	5 or Best
Fall dormancy class:	FD 3
Winter hardiness class:	WS 1.5
Multifoliate leaf expression:	73%/Moderate MF
FastGrowth rating:	1.83/Average
Salinity tolerance:	
Germination:	Tolerant

Pest Package



Diseases

Disease	HR	R	MR	LR	S
Anthrachnose	●				
Aphanomyces-Race 1	●				
Aphanomyces-Race 2	●				
Bacterial wilt	●				
Fusarium wilt	●				
Phytophthora root rot	●				
Verticillium wilt	●				

Insects

Insect	HR	R	MR	LR	S
Blue alfalfa aphid		●			
Cowpea aphid		●			
Pea aphid			●		
Spotted alfalfa aphid	●				

Nematode Resistance

Nematode	HR	R	MR	LR	S
Northern root knot		●			
Stem nematode		●			

Performance

- A high yield potential, variety with Hi-Gest® Alfalfa Technology with improved fiber digestibility, intake and extent of digestion versus other conventional alfalfas
- A product of traditional plant breeding with a variety patent pending
- A variety that has been meeting grower and livestock producers expectations since the 2015 growing season

Management

- Adapted to today's best alfalfa management practices
- Adapted to aggressive high quality or more relaxed high tonnage management systems
- Rations using Hi-Gest can be easily balanced by nutritionists with the results of an accurate feed test

Appearance at Harvest Maturity

- Plants are medium-tall, with a higher stem count, axillarial branching, and a dense canopy of leaves** up and down each stem
- A high leaf-to-stem ratio and more crude protein than other conventionally bred, high quality, dormant alfalfa varieties at harvest maturity

Head to Head Comparison Yield in DM Tons per Acre

Competitor	Competitor	Hi-Gest 360	Harvest Years ¹	% Yield Advantage
N-R-GEE	6.15	7.26	6	18%
WL 336HQ RR	2.20	2.45	1	12%
WL 355RR	2.26	2.45	1	8%
AmeriStand 403T	3.18	3.40	3	7%
L-449	6.38	6.73	15	6%
WL 319HQ	6.71	7.02	46	5%
AmeriStand 445-N	5.95	6.17	2	4%
Mountaineer 2.0	7.92	8.05	4	2%
WL 372HQ.RR	6.11	6.17	2	1%
WL 363HQ	7.42	7.42	6	0%
Legendairy XHD	5.85	5.83	69	0%
DKA 44-16	7.00	6.91	1	-1%

¹ Harvest Years = the number of years in either Public and/or Private trials where the two varieties have been in the same trial and are on harvest schedule for the yield comparisons to be listed.

Yield Rating Key: 5 = Best; 3 = Average; 1 = Poor

Agronomic Ratings are based on average performance between Alfalex varieties. 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.

FastGrowth Ratings are calculated by Alfalex Seeds from weekly measurement of varieties grown side-by-side from green-up to harvest through the growing season. Expressed as average centimeters growth per day. >2.20 = Very Fast; >2.00 = Fast; >1.80 = Average; >1.60 = Slow; <1.60 = Very Slow

* The increased rate of fiber digestion, extent of digestion, and crude protein data was developed from replicated research and on-farm testing. During the 2015 growing season at West Salem, WI and Woodland, CA, the following commercial dormant, semi-dormant and non-dormant alfalfa varieties were compared head-to-head with Hi-Gest® alfalfa for rate of digestion, extent of digestion and percent crude protein: America's Alfalfa Brand AmeriStand 427TQ, Croplan Brands Legendairy XHD and Artesia Sunrise, Fertizona Brand Fertillac, S&W Seed Brands SW6330, SW7410 and SW10 and W-L Brands WL 319HQ and WL 354HQ. Also during the 2015 growing season, 32 on-farm Hi-Gest hay and silage samples were submitted to Rock River Laboratory, Inc., for forage analysis. The results for rate of digestion, extent of digestion and percent crude protein were averaged and compared to the 60-day and four-year running averages for alfalfa in the Rock River database which included approximately 1,700 alfalfa hay and 3,800 silage 60-day test results and 23,000 hay and 62,000 silage tests results in the four-year average.

** Improved Hi-Gest® alfalfa leafiness, as documented by Alfalex Seeds replicated trials at West Salem, WI and Woodland, CA, versus the following commercial alfalfa varieties: America's Alfalfa Brand AmeriStand 427TQ, Croplan Brands Legendairy XHD and Artesia Sunrise, Fertizona Brand Fertillac, S&W Brands SW6330, SW7410 and SW10 and W-L Brands WL 319HQ and WL 354HQ.

Pest Resistance Ratings

% Resistant Plants	Resistance Class	Class Abbreviation
0-5%	Susceptible	S
6-14%	Low Resistance	LR
15-30%	Moderate Resistance	MR
31-50%	Resistant	R
>50%	High Resistance	HR



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