

UltraCut™ Disease Package raises ante on alfalfa yield potential and persistence leaders

Broad disease resistance is always a priority on our research teams, constantly looking for additional tolerance across a wide geography. WL 349HQ is a breakthrough W-L product, with an evolving Aphanomyces strains² and Anthracnose¹ UltraCut™ Disease Package that offers growers the ability to help protect yield and quality potential. If top tier yield potential, quality and persistence under tough soil conditions at establishment or in-crop are your must-haves, you've found your next conventional variety.

WL 349HQ Advantages

- A new day in disease resistance greatly affecting establishment and in-crop performance, WL 349HQ's perfect Disease Resistance Index (DRI) of 40/40 also includes HR (high resistance) to evolving Aphanomyces strains², and HR to Anthracnose race 1 and race 5¹
- Superb winterhardiness (WH=1.7); WL 349HQ delivers excellent cold tolerance and persistence
- WL 349HQ contains "HQ" high-quality feed value levels highly desirable for dairy and cash hay producers
- UltraCut™ Disease Package offers expanding yield advantages over competitive checks with added years in production
- WL 349HQ delivers fast recovery in an FD4 package
- Great standability for intensive management systems
- Dark green, fine-stemmed, and a highly palatable HQ variety
- Very well-adapted and selected for use in the Midwest, Northeast, Intermountain regions, Pacific Northwest or Central and Northern Plains of the U.S.

UltraCut™ Disease Package

W-L Alfalfas with the UltraCut™ Disease Package can provide agronomic advantages by helping protect your crop against yield-limiting and evolving Anthracnose and Aphanomyces disease strains. You could see an increase in yield with each cutting when disease threatens your alfalfa and expand the acres you're able to plant. Help grow a healthy alfalfa crop even in field conditions susceptible to Anthracnose and Aphanomyces threats with the UltraCut™ Disease Package.

Example of high-resistance Multi-Race Aphanomyces and Anthracnose resistance varieties (in the middle) compared to susceptible competitive check varieties (on outsides)

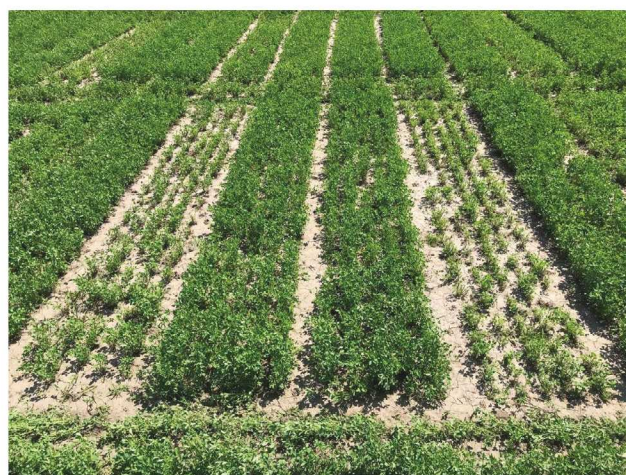


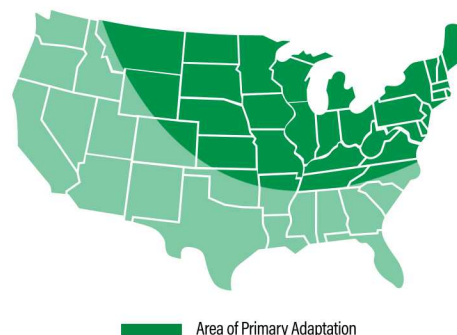
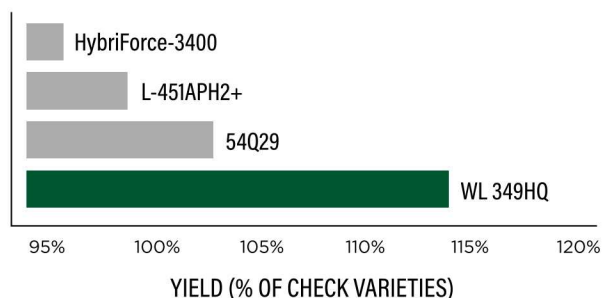
Photo from FGI Research Facility; West Salem, WI; June 2018

AGRONOMIC TRAITS	
Fall Dormancy	4.4
Winterhardiness	1.7
Maturity	Early
Digestibility	Superior
Recovery After Harvest	Very Fast
Standability	Excellent
Multileaf Expression	Very High
Disease Resistance Index	40/40
Salt Tolerance	Germination

PEST RESISTANCE TRAITS	
Bacterial Wilt	High Resistance
Fusarium Wilt	High Resistance
Verticillium Wilt	High Resistance
Anthracnose (Race 1)	High Resistance
Anthracnose (Race 5) ¹	High Resistance
Phytophthora Root Rot	High Resistance
Aphanomyces Root Rot (Race 1)	High Resistance
Aphanomyces Root Rot (Race 2)	High Resistance
Evolving Aphanomyces Strains ²	High Resistance
Pea Aphid	High Resistance
Stem Nematode	Resistance

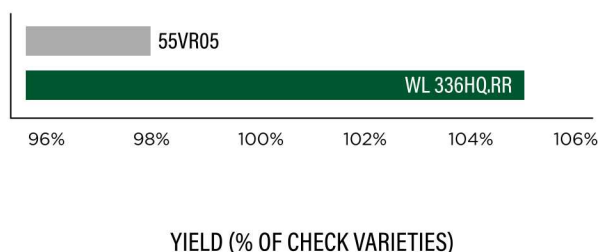
WL 349HQ Outyielded Three Leading Competitors in the Midwest and East*

WI, IA, PA, NY 2019-2022



WL 349HQ Outyielded Two Leading Competitors in the West*

WA, ID, KS 2019-2022



* Results are based on controlled field trials at the listed W-L Alfalfa location. Results may vary and are dependent on factors outside of W-L Alfalfa's control, such as weather. Yield, profit and other results cannot be predicted or guaranteed by W-L Alfalfa.

¹ Includes Race 1 protection, along with Anthracnose Race 5 protection, which is patented by FGI.

² Includes Race 1 and Race 2 protection. In addition, Forage Genetics International, LLC (FGI) has identified a novel source of Aphanomyces resistance in the greenhouse and field that visibly outperforms unrelated varieties on the market when grown under natural or artificial disease pressure. FGI researchers have been working cooperatively with universities collecting and testing the most virulent strains of Aphanomyces to help determine the level of resistance to this novel source.

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