

UltraCut[®] Disease Package raises ante on alfalfa yield potential and persistence

Broad adaptation is a priority of our breeding program. WL 3521HQ provides high yield potential across a wide range of FD5 alfalfa production areas through its unparalleled establishment and persistence from the UltraCut[®] disease resistance package paired with great cold and salt tolerance.

WL 3521HQ Advantages

- A new day in disease resistance greatly affecting establishment and in-crop performance, WL 3521HQ'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
- Salt Tolerance at germination
- Superb winterhardiness (WH=1.8); WL 3521HQ delivers excellent cold tolerance and persistence
- WL 3521HQ contains 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 3521HQ delivers fast recovery in an FD5 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.

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



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



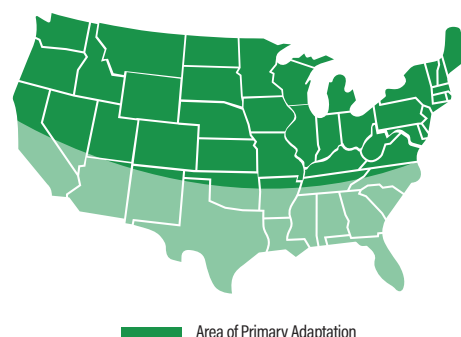
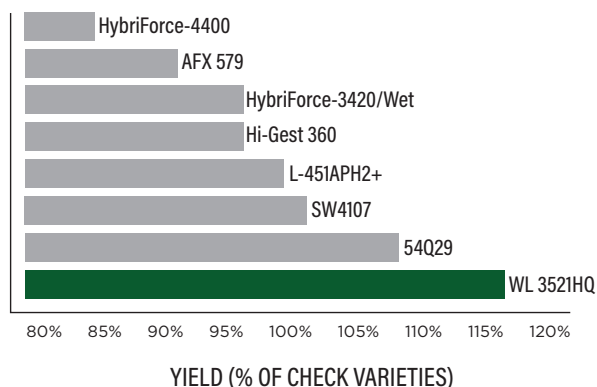
Photo from FGI Research Facility; Nampa, ID; 2023

AGRONOMIC TRAITS	
Fall Dormancy	5.0
Winterhardiness	1.8
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
Blue Alfalfa Aphid	Resistance
Pea Aphid	Resistance
Spotted Alfalfa Aphid	High Resistance
Stem Nematode	Resistance

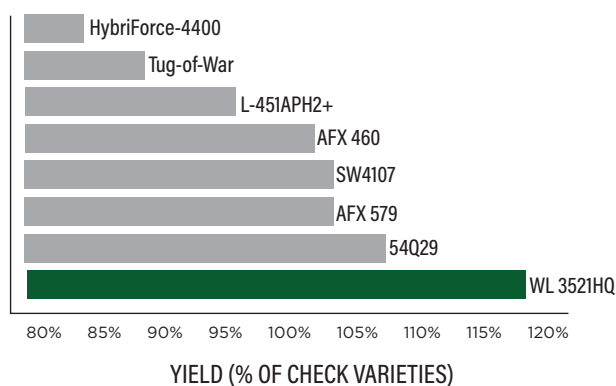
WL 3521HQ Outyields the Competition in the East*

WI 2021-2023



WL 3521HQ Outyields the Competition in the West*

ID 2022-2024



¹Includes 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.

²Includes race 1 protection, along with Anthracnose Race 5 protection, which is patented by FGI.

*Results are based on controlled field trials at the listed W-L Alfalfas 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 Alfalfas.

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