

## HarvXtra® Alfalfa with Roundup Ready® Technology and an industry leading disease package, UltraCut™

HarvXtra® Alfalfa with Roundup Ready® Technology is truly a game changer in alfalfa production, and one of the most exciting breakthroughs to hit alfalfa and forage production ever.

### WL 3471.HVXRR Advantages

WL 3471.HVXRR gives growers tremendous value of flexibility in choosing to maximize exceptional fiber digestibility, or accumulate greater yield potential by delaying cutting frequency, without sacrificing feed quality. Lignin (ADL %, acid detergent lignin) content of at least 15% less than competitive check varieties on average gives WL 3471.HVXRR at least a 15% greater RFQ (relative forage quality) and NDFD (neutral detergent fiber digestibility).

- UltraCut™ Disease Package affecting establishment and in-crop performance, WL 3471.HVXRR's Disease Resistance Index (DRI) of 39/40 also includes HR (high resistance) to evolving Aphanomyces strains<sup>2</sup>, and resistance to Anthracnose race 5<sup>1</sup>
- Disease Resistance Index (39/40) and very winterhardy, (1.9), delivering long stand life under tough growing conditions
- WL 3471.HVXRR is stacked with Roundup Ready® Technology for exceptional broad spectrum weed control and crop safety to maximize seedling survival at establishment and provide a useful tool on established stands
- Well-adapted for Midwest, Northeast, Central and Northern Plains, as well as Intermountain Regions and Northwestern U.S.; ideally-suited for on-farm dairy, beef or cash hay producers
- Expect fast recovery for frequent harvest schedules under intense management

### 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.

### WL 3471.HVXRR Firmly Establishes a New Level of Fiber Digestibility and Feed Value in the West\*

#### ID, FIRST PRODUCTION YEAR

Variety	Yield	NDFD	RFQ	Milk lbs/Ac
<b>WL 3471.HVXRR</b>	<b>103%</b>	<b>109%</b>	<b>113%</b>	<b>112%</b>
54VR10	100%	99%	100%	101%
L-451APH2+	101%	101%	99%	100%
54HVX41	100%	109%	115%	107%

NDFD = Neutral Detergent Fiber Digestibility RFQ = Relative Forage Quality

AGRONOMIC TRAITS	
Fall Dormancy	4.3
Winterhardiness	1.9
Maturity	Early
Digestibility	HarvXtra*
Recovery After Harvest	Very Fast
Standability	Excellent
Multileaf Expression	Very High
Disease Resistance Index	39/40
Salt Tolerance	Germination

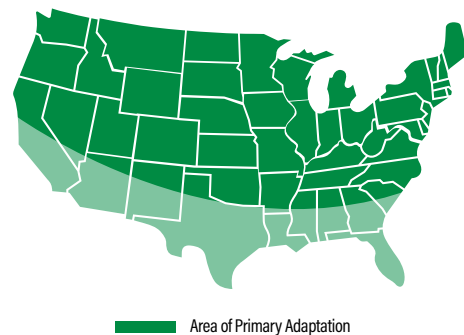
PEST RESISTANCE TRAITS	
Bacterial Wilt	High Resistance
Fusarium Wilt	High Resistance
Verticillium Wilt	High Resistance
Anthracnose (Race 1)	High Resistance
Anthracnose (Race 5) <sup>1</sup>	Resistance
Phytophthora Root Rot	High Resistance
Aphanomyces Root Rot (Race 1)	High Resistance
Aphanomyces Root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

## WL 3471.HVXRR Firmly Establishes a New Level of Fiber Digestibility and Feed Value in the East\*

### WI 2016-2021

Variety	Yield	NDFD	RFQ	Milk lbs/Ac
WL 3471.HVXRR	106%	114%	115%	123%
54HVX41	101%	113%	118%	117%
HybriForce-3400	93%	103%	107%	97%

NDFD = Neutral Detergent Fiber Digestibility RFQ = Relative Forage Quality



W-L Alfalfas and Forage Genetics International recommends the use of RFQ (relative forage quality) in place of RFV (relative feed value) because it more accurately reflects the value that improved fiber digestibility has in forages like HarvXtra® Alfalfa with Roundup Ready® Technology. RFQ better reflects performance that can be expected when animals are fed forages.

Likewise, RFQ is a far better index of forage quality than TDN (total digestible nutrients) because the TDN equation may not properly reflect fiber digestibility.

\* 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 Alfalfas's control, such as weather. Yield, profit and other results cannot be predicted or guaranteed by W-L Alfalfas

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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In the following states, purchase and use of HarvXtra® Alfalfa with Roundup Ready® Technology is subject to a Seed and Feed Use Agreement, requiring that products of this technology can only be used on farm or otherwise be used in the United States: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming. In addition, due to the unique cropping practices do not plant HarvXtra® Alfalfa with Roundup Ready® Technology in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

HarvXtra® Alfalfa with Roundup Ready® Technology has pending import approvals. GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product.

Visit [www.ForageGenetics.com/legal](http://www.ForageGenetics.com/legal) for the full legal, stewardship and trademark statements for these products.