

W-L Alfalfas bulks up HarvXtra® Alfalfa lineup with FD5 addition

WL 3581.HVXRR offers another valuable winterhardy option with UltraCut® alfalfa disease resistance package and the HarvXtra® Alfalfa trait.

WL 3581.HVXRR Advantages

- Building on the great performance of WL 375HVX.RR, WL 3581.HVXRR has improved disease resistance, cold tolerance and persistence; all contributing to improved yield potential.
- WL 3581.HVXRR offers tremendous value of flexibility in choosing to maximize fiber digestibility, or realize greater yield potential by delaying cutting frequency, perhaps removing 1 cut, without sacrificing feed quality
- Features UltraCut® Disease Package, a Disease Resistance Index (40/40), which includes High Resistance to evolving Aphanomyces strains²; and Anthracnose Race 5¹
- WL 3581.HVXRR contains Roundup Ready® Technology for unsurpassed broad spectrum weed control and crop safety to maximize seedling survival at establishment and provide a useful tool on established stands
- Salt Tolerance at germination
- Well-adapted for Midwest, Northeast, Central, Northern, & Southern Plains, as well as Intermountain Regions and Pacific Northwest; ideally-suited for on-farm dairy, beef or cash hay producers
- WL 3581.HVXRR delivers quick recovery for frequent harvest schedules under intense management
- Quick stand establishment with WL 3581.HVXRR that comes fully loaded with W-L's Gold Treatment PLUS containing Stamina® seed treatment

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 potential 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.

Visual example of planting WL 3581.HVXRR with high resistance to multiple races of aphanomyces and anthracnose significantly improves stand establishment and production.



Susceptible Variety

WL 3581.HVXRR (High Resistance)

AGRONOMIC TRAITS	
Fall Dormancy	4.6
Winterhardiness	1.7
Maturity	Early
Digestibility	HarvXtra*
Recovery After Harvest	Very Fast
Standability	Excellent
Multileaf Expression	Very High
Disease Resistance Index	40/40
Salt Tolerance	Germination

WL 3581.HVXRR Performance in the West*

ID 2019-2021

Variety	Yld %Ck m-y	NDFD %Ck	RFQ %Ck	Milk lbs/ Ac %Ck
WL 3581.HVXRR	108%	110%	114%	116%
54VR10	107%	99%	99%	106%
WL 356HQ.RR	107%	103%	104%	110%
54HVX41	97%	109%	115%	104%

NDFD = Neutral Detergent Fiber Digestibility RFQ = Relative Forage Quality

WL 3581.HVXRR Firmly Establishes a New Level of Fiber Digestibility and Feed Value in the East*

WI 2019-2021

Variety	Yld %Ck m-y	NDFD %Ck	RFQ %Ck	Milk lbs/ Ac %Ck
WL 3581.HVXRR	110%	116%	121%	127%
54Q29	103%	100%	97%	103%
54VR10	103%	99%	97%	100%
WL 375HVX.RR	102%	111%	105%	111%
54HVX42	101%	108%	109%	110%
AFX 579	100%	97%	96%	97%
L-451APH2+	96%	101%	96%	95%
HybriForce-3400	88%	106%	112%	96%

NDFD = Neutral Detergent Fiber Digestibility RFQ = Relative Forage Quality

*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.

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

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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.

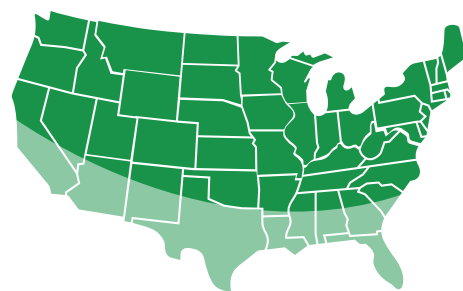
HarvXtra® Alfalfa with Roundup Ready® Technology has pending import approvals. GROWERS MUST DIRECT ANY PRODUCT PRODUCED FROM HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY SEED OR CROPS (INCLUDING HAY AND HAY PRODUCTS) ONLY TO UNITED STATES DOMESTIC USE. It is a violation of national and international 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.

Due to the unique cropping practices do not plant Roundup Ready® Alfalfa in Imperial County, California, pending import approvals and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

Roundup Ready® Alfalfa has pending import approvals. 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 for the full legal, stewardship and trademark statements for these products.

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	Resistance
Stem Nematode	Resistance



Area of Primary Adaptation

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.