



WL 3471.HVXRR

FD4

DORMANT

NEW HARVXTRA® ALFALFA WITH ROUNDUP READY® TECHNOLOGY AND THE LATEST DISEASE PACKAGE ON THE MARKET

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) than competitive check varieties.

- Superb yield potential and agronomic characteristics under 3-cut system if extending cutting frequency, or under 4- to 5-cut systems to maximize feed value
- Our newest disease resistance greatly effecting establishment and in-crop performance, WL 3471.HVXRR's Disease Resistance Index (DRI) of 39/40 also includes HR (high resistance) to enhanced multi-race aphanomyces¹, and resistance to anthracnose race 5²
- 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



AGRONOMIC TRAITS

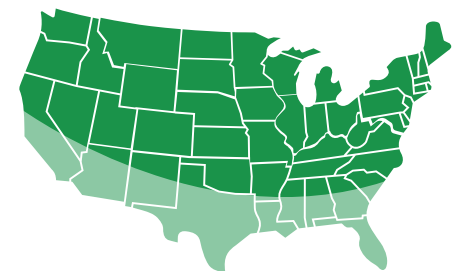
Maturity	Early
Fall Dormancy	4.3
Winterhardiness	1.9
Digestibility/Feed Value	HarvXtra®
Recovery After Harvest	Very Fast
Standability	Excellent
Traffic Tolerance	Very Good
Multileaf Expression	Very High
Disease Resistance Index	39/40

*HarvXtra® Alfalfa with Roundup Ready® Technology

PEST RESISTANCE TRAITS

Bacterial Wilt	HR
Fusarium Wilt	HR
Verticillium Wilt	HR
Anthracnose (Race 1)	HR
Anthracnose (Race 5) ²	R
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	HR
Aphanomyces Enhanced Multi-Race ¹	HR
Pea Aphid	R
Stem Nematode	R

HR = HIGH RESISTANCE R = RESISTANT MR = MODERATE RESISTANCE



■ Area of Primary Adaptation

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, which was recently confirmed by USDA's Agricultural Research Service.

Planting WL 3471.HVXRR utilizing the Roundup Ready® weed control system provides many benefits over conventional herbicide programs

- Exceptional weed control at both stand establishment and in established stands means fewer weeds and higher-quality hay and haylage
- Exceptional crop safety at all growth stages with the Roundup Ready® weed control system
- Recommended 1st glyphosate application at 1st-3rd trifoliolate stage to provide early weed control on new seedlings and lower seedling mortality
- The simplicity of using a single herbicide [Roundup®] provides superior weed control with no need to tank mix
- Flexibility in timing of application allows growers utilizing the Roundup Ready® system to spray when necessary; no carryover or crop rotation limitations
- Minimal wait (5 days) after Roundup® application before haying/feeding

WL 3471.HVXRR Outyields the Competition*

Data from FGI in listed locations in 2016-2018

Variety	Yield (% of check varieties)			
	West Salem, Wisconsin	Boone, Iowa	Marshfield, Wisconsin	Mount Joy, Pennsylvania
WL 3471.HVXRR	114	98	101	104
54R02	100	-	-	105
54QR04	-	100	100	-
54V09	-	97	-	-
Hi Gest 360	104	102	101	98
HybriForce 3400	97	100	102	100
Attention II	93	91	97	98

For more information visit WLAlfalfas.com.

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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 for the full legal, stewardship and trademark statements for these products.

WL 3471.HVXRR Firmly Establishes a New Level of Fiber Digestibility and Feed Value*

Data from FGI in listed locations in 2016-2018

Variety	%ALD	%NDFD	%RFQ
WL 3471.HVXRR	78	117	120
54R02	102	98	95
Hi Gest 360	97	104	105
HybriForce 3400	98	102	103
Attention II	103	98	98

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 research 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.

