



WL 341HVX.RR

FD4

DORMANT

ALFALFA REINVENTED

The New Standard of Yield Potential and Quality with W-L HarvXtra® Alfalfa

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. Our first release, WL 341HVX.RR provides growers with expanded flexibility in cutting schedule to protect forage quality, or the ability to greatly enhance fiber digestibility and overall feed value while maintaining current harvest timing. Either option delivers tremendous value no matter the type of grower or operation.

WL 341HVX.RR Advantages

WL 341HVX.RR gives growers tremendous value of flexibility in choosing to maximize unmatched 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 341HVX.RR 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
- Great Disease Resistance Index (34/35) and very winterhardy, (2.1), delivering long stand life under tough growing conditions
- WL 341HVX.RR 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
- Quick stand establishment with WL 341HVX.RR that comes fully-loaded with W-L's The Gold Treatment® PLUS seed coating treatment containing Stamina® fungicide



AGRONOMIC TRAITS

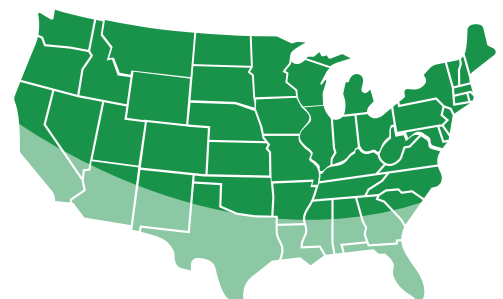
Maturity	Early
Fall Dormancy	4.0
Winterhardiness	2.1
Digestibility/Feed Value	HarvXtra®
Recovery After Harvest	Very Fast
Standability	Excellent
Traffic Tolerance	Very Good
Disease Resistance Index	34/35

*HarvXtra® Alfalfa with Roundup Ready® Technology

PEST RESISTANCE TRAITS

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	R
Verticillium Wilt	HR
Aphids	R
Nematodes	R

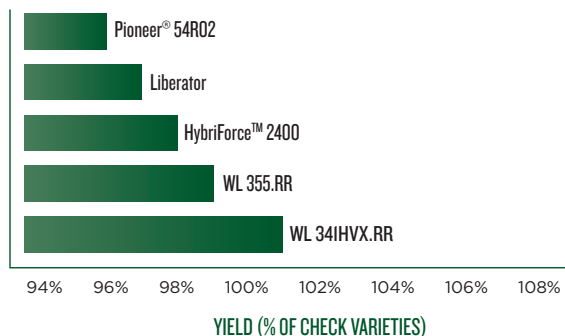
HR = HIGH RESISTANCE R = RESISTANT



Planting WL 34IHVX.RR 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 34IHVX.RR Outyields the Competition* West Salem, WI 2014-2016



WL 34IHVX.RR Firmly Establishes a New Level of Fiber Digestibility and Feed Value*

Boone, IA; Mt. Joy, PA; West Salem, WI 2015-2016

Variety	ADL	NDFD	RFQ
WL 34IHVX.RR	73%	117%	123%
WL 355.RR	100%	98%	100%
Pioneer® 54R02	99%	99%	99%
HybriForce™ 2400	100%	102%	101%
Liberator	96%	103%	107%

ADL = Acid Detergent Lignin NDFD = Neutral Detergent Fiber digestibility RFQ = Relative Forage Quality

W-L Research 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 Research location. Results may vary and are dependent on factors outside of W-L Research's control, such as weather. Yield, profit and other results cannot be predicted or guaranteed by W-L Research.

For more information visit wresearch.com and HarvXtra.com. 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 and Roundup Ready® Alfalfa in Imperial County, California, pending import approval and until Forage Genetics International, LLC (FGI) grants express permission for such planting.

Forage Genetics International, LLC ("FGI") is a member of Excellence Through Stewardship® (ETS). FGI products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with FGI's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. As of June 2017, HarvXtra® Alfalfa with Roundup Ready® Technology and Roundup Ready® Alfalfa have 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. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. 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. Growers should refer to <http://www.biotradestatus.com/> for any updated information on import country approvals. Excellence Through Stewardship® is a registered trademark of Biotechnology Industry Organization.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

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