



# WL 3441.RR

FD4

DORMANT

## NEW DISEASE PACKAGE AND ROUNDUP READY® FALL DORMANT 4

WL 3441.RR is a new W-L breakthrough product, with enhanced multi-race Aphanomyces<sup>1</sup> disease package that offers growers the ability to help protect yield and quality potential.

### WL 3441.RR Advantages

- Very high yield potential under 3- to 5-cut harvest managements
- New disease resistance package greatly effecting establishment and in-crop performance, WL 3441.RR Disease Resistance Index (DRI) of 35/35 also includes resistance to enhanced multi-race aphanomyces<sup>1</sup>
- Very winterhardy (WH=2.0); WL 3441.RR delivers long stand life under adverse weather and soil conditions
- Highly resistant (HR) to stem nematode
- Ideal FD4 variety for Midwest, Northern Plains, Pacific Northwest and Northeastern region of the U.S. for hay and haylage uses
- Salt tolerance of germinating seeds similar to resistant check



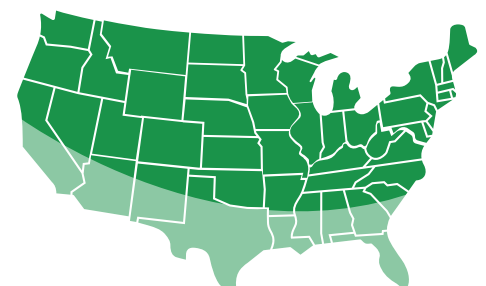
#### AGRONOMIC TRAITS

|                          |             |
|--------------------------|-------------|
| Maturity                 | Early       |
| Fall Dormancy            | 4.3         |
| Winterhardiness          | 2.0         |
| Digestibility/Feed Value | Superior    |
| Recovery After Harvest   | Very Fast   |
| Standability             | Excellent   |
| Traffic Tolerance        | Very Good   |
| Multileaf Expression     | Very High   |
| Disease Resistance Index | 35/35       |
| Salt Tolerance           | Germination |

#### PEST RESISTANCE TRAITS

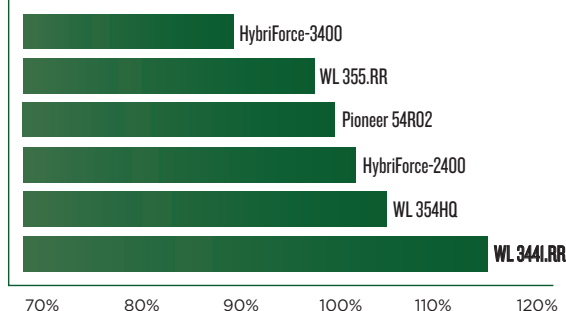
|  |    |
|--|----|
| Bacterial Wilt                               | HR |
| Fusarium Wilt                                | HR |
| Verticillium Wilt                            | HR |
| Anthracnose (Race 1)                         | HR |
| Phytophthora Root Rot                        | HR |
| Aphanomyces Root Rot (Race 1)                | HR |
| Aphanomyces Root Rot (Race 2)                | HR |
| Aphanomyces Enhanced Multi-Race <sup>1</sup> | R  |
| Pea Aphid                                    | R  |
| Stem Nematode                                | HR |

HR = HIGH RESISTANCE R = RESISTANT MR = MODERATE RESISTANCE



Area of Primary Adaptation

#### YIELD (% OF CHECK VARIETIES)



WI, ID, IA AND PA FROM 2014-2017

\* 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.

<sup>1</sup>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.

<sup>2</sup>Includes race 1 protection, along with Anthracnose Race 5, which was recently confirmed by USDA's Agricultural Research Service.

## Planting WL 344I.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, which can result in more milk per ton fed and higher RFQ when tested
- Optimal crop safety at all growth stages with the Roundup Ready® weed control system delivers increased yield potential in both the establishment year and subsequent years
- The simplicity of using a single herbicide (Roundup®) provides optimal 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

## What does the new disease package mean for growers?

Disease resistance packages in W-L Alfalfas just took a major step-change up with the release of an enhanced multi-disease, multi-race resistance of Aphanomyces and Anthracnose, the industry's first. Aphanomyces fungus, prevalent in a great majority of key Midwest and Northeast alfalfa states, weakens alfalfa roots, resulting in stunted, chlorotic plants and poor seedling establishment in wet soil conditions, and a persistent drain on established stands. Many alfalfa seed varieties are available with Race 1 resistance, fewer are available with Race 2 resistance, but enhanced multi-race resistance isolate is very unique.

For more information visit [WLAalfalfas.com](http://WLAalfalfas.com).

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

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