

## EXCEPTIONAL PRODUCTIVITY AND PERSISTENCE ON YOUR TOUGHEST SOILS

Outstanding yield potential and exceptional forage quality on your toughest soils make WL 354HQ the alfalfa variety of choice for dairy, beef, and cash hay producers looking to significantly reduce the impact of root disease on seedling establishment and stand life.

### WL 354HQ Advantages

- Unique wet soil disease resistance package (including HR to Aphanomyces Race 2) demonstrates significant on-farm benefits in stand establishment, persistence, and forage yield
- A perfect Disease Resistance Index (DRI) of 35/35
- Very high yield potential under 3- to 5-cut harvest managements; high yield potential across a wide range of soil types
- Excellent feed value and digestibility helps produce more milk or beef and greater profit potential when fed
- A great choice for cash hay: WL 354HQ delivers very high RFQ and TDN numbers across a wide range of haying conditions
- Very winterhardy (WH=1.4); WL 354HQ delivers long stand life even under the toughest weather conditions
- Fast recovery after cutting and excellent standability encourages intensive harvest management
- Dark green, fine-stemmed, and highly palatable
- Excellent later-maturing companion to WL 363HQ
- Very well-adapted for use in the Midwestern, Northern Plains, Pacific Northwest and Northeastern regions of the U.S. for hay and haylage uses

GENESEO, NY 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
<b>WL 354HQ</b>	<b>18.28</b>
Pioneer® 54V46	17.33
ReGen	16.89
Milestone	16.84
WL 348AP	16.66
Perform	16.56
Ameristand 403T	15.36

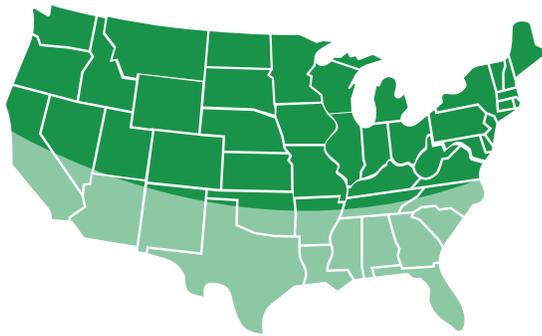
WEST SALEM, WI 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
<b>WL 354HQ</b>	<b>14.92</b>
Pioneer® 54V46	14.20
WL 357HQ	14.15
Pioneer® 54HII	12.02
HybriForce™-400	11.83

NAMPA, ID 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
<b>WL 354HQ</b>	<b>25.18</b>
Ameristand 444NT	24.65
Pioneer® 54V46	24.29
CW 500	23.04
Bullseye	22.38
HybriForce™-400	22.36

MARSHFIELD, WI 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
<b>WL 354HQ</b>	<b>16.32</b>
Genoa	15.86
Pioneer® 54V46	15.15
WL 357HQ	14.96
HybriForce™-400	13.96

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.





**AREA OF PRIMARY ADAPTATION**

## WL 354HQ Delivers Greater Forage Quality

Marshfield, WI, 2008-2009

VARIETY	CP	RFQ*
<b>WL 354HQ</b>	<b>19.9</b>	<b>151</b>
CW 500	18.6	144
Pioneer® 54V46	18.2	146
HybriForce™-400	18.5	150

WL 354HQ beats HybriForce by \$617 per acre

CP= Crude Protein

\* Relative Forage Quality

### AGRONOMIC TRAITS

Maturity	Early
<b>Fall Dormancy</b>	<b>3.9</b>
<b>Winterhardiness</b>	<b>1.4</b>
Digestibility/Feed Value	Superior
Persistence Index	Very High
<b>Disease Resistance Index</b>	<b>35/35</b>
Recovery After Harvest	Very Fast
Traffic Tolerance	Very Good
Standability	Excellent

### PEST RESISTANCE TRAITS

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthraxnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot – Race 1	HR
<b>Aphanomyces Root Rot – Race 2</b>	<b>HR</b>
Verticillium Wilt	HR
Leaf Disease	R-HR
Aphids	R
Nematodes	R-HR

HR = HIGH RESISTANCE R = RESISTANT

### Do You Need Dual-Race Aphanomyces Root Rot Resistance?

The Aphanomyces fungus prunes alfalfa roots, resulting in stunted, chlorotic plants and poor seedling establishment on wet soils. Most alfalfa varieties currently marketed in the U.S. are resistant to Race 1 Aphanomyces, but very few varieties are resistant to Race 2.

Race 2 Aphanomyces isolates are widespread and cause severe disease on Race 1-resistant varieties. University forage specialists throughout the Midwest and Northeast suggest that Race 2 Aphanomyces represents a widespread risk to alfalfa varieties that possess only Race 1 Aphanomyces resistance.

Planting alfalfa with high resistance to Race 2 Aphanomyces (see **WL 354HQ** below) will significantly improve alfalfa stand establishment and productivity on heavy or poorly drained soils where root diseases are prevalent.



**Impact of Race 2 Aphanomyces on Stand Establishment**

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