

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; produces big yields across a wide range of soil types
- Excellent feed value and superior 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 superior 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)
WL 354HQ	18.28
Pioneer 54V46	17.33
ReGen	16.89
Milestone	16.84
WL 348AP	16.66
Perform	16.56
Ameristand 403T	15.36

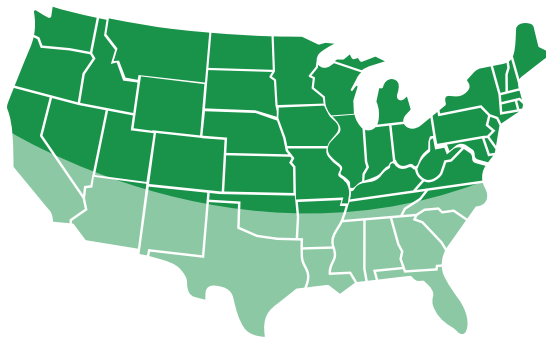
WEST SALEM, WI 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
WL 354HQ	14.92
Pioneer 54V46	14.20
WL 357HQ	14.15
Pioneer 54HII	12.02
HybriForce-400	11.83

NAMPA, ID 2008-2009 TOTAL YIELD	
Variety	Yield (T/A)
WL 354HQ	25.18
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)
WL 354HQ	16.32
Genoa	15.86
Pioneer 54V46	15.15
WL 357HQ	14.96
HybriForce-400	13.96



Visit wresearch.com for more information.



AREA OF PRIMARY ADAPTATION

WL 354HQ Delivers Greater Milk Income Per Acre

Marshfield, WI

VARIETY	% CP	RFQ*	\$/ACRE**
WL 354HQ	19.9	151	\$3,269
CW 500	18.6	144	\$2,891
Pioneer 54V46	18.2	146	\$2,859
HybriForce-400	18.5	150	\$2,652

WL 354HQ beats HybriForce by \$617 per acre

* Relative Forage Quality

** Results and prices may vary; therefore, results to be obtained, including but not limited to yields, financial performance, or profits, cannot be predicted or guaranteed by W-L Research.

AGRONOMIC TRAITS

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

PEST RESISTANCE TRAITS

Bacterial Wilt	HR
Fusarium Wilt	HR
Anthracoese	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot – Race 1	HR
Aphanomyces Root Rot – Race 2	HR
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