



WL 319HQ

FD3

DORMANT

HQTM

EXCEPTIONAL WINTER-HARDINESS AND OUTSTANDING PROFIT POTENTIAL

Proven in university and regional tests all across the country, WL 319HQ delivers exceptional yield potential and outstanding feed value. WL 319HQ also provides producers with the highest levels of cold tolerance and winterhardiness available in the W-L lineup today. And when fed to dairy or beef cattle, WL 319HQ easily beats the competition in head-to-head comparisons for palatability, digestibility, and overall profit potential.

WL 319HQ Advantages

- Very high yield potential under both 3- and 4-cut harvest managements
- Group 1.3 winterhardiness and Group 2.8 fall dormancy can deliver fast recovery after cutting, high yields, long stand life, and excellent cold tolerance
- A perfect disease resistance index (DRI) of 30/30 and strong resistance to insects and nematodes provide for big yield potential and long stand life across a wide range of soil types and climates
- Exceptional ration economics for both dairy and beef: high forage yield potential plus high feed quality delivers significantly greater profit potential when fed
- WL 319HQ consistently beats the competition in head-to-head digestibility and feed value comparisons ("Best In Show" winner at the World Forage Superbowl)
- Dark green, fine-stemmed, and highly digestible
- Fast recovery after cutting and outstanding winterhardiness allows intensive harvest management for maximum quality and yield potential with little to no sacrifices in stand life

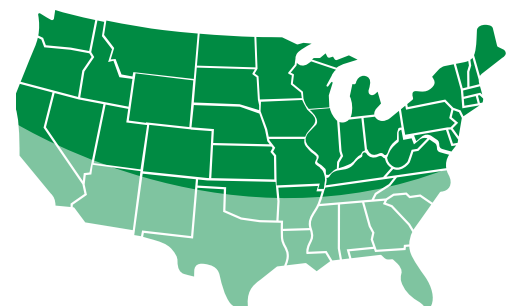
AGRONOMIC TRAITS

Maturity	Medium
Fall Dormancy	2.8
Winterhardiness	1.3
Digestibility	Excellent
Recovery After Harvest	Very Fast
Standability	Excellent
Traffic Tolerance	Very Good
Multileaf Expression	Very High
Disease Resistance Index	30/30

PEST RESISTANCE TRAITS

Bacterial Wilt	HR
Fusarium Wilt	HR
Verticillium Wilt	HR
Anthracnose	HR
Phytophthora Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	HR
Leaf Disease	R
Pea Aphids	R
Spotted Alfalfa Aphids	R
Stem Nematode	MR

HR = HIGH RESISTANCE R = RESISTANT MR = MODERATE RESISTANCE



■ Area of Primary Adaptation

WL 319HQ Advantages

Penn State Univ., Landisville, PA 2001	
Variety	Yield (T/A)
WL 319HQ	12.93
HybriForce™-400	12.75
Cimarron SR	11.87
Baralfa 53HR	11.67
Pioneer® 54H9	11.56
Vernal	10.16

Univ. of Minnesota, Plainview 2001	
Variety	Yield (T/A)
WL 319HQ	7.53
Somerset	7.40
TMF Multiplier 3	7.36
Magnum V-Wet	7.16
DK 124	7.06
Pioneer® 53Q60	6.97
Vernal	6.58

Univ. of Wisconsin, Marshfield 2001	
Variety	Yield (T/A)
WL 319HQ	9.81
MultiPlier-3	9.62
HybriForce™-400	9.19
Pioneer® 54H9I	8.71
Oneida VR	8.47
Vernal	8.34

Washington State Univ., Othello 2001	
Variety	Yield (T/A)
WL 319HQ	16.1
Pioneer® 54Q25	16.0
Vitro	15.7
HybriForce™-400	15.0
Reward II	14.5
Vernal	12.4

WL 319HQ Forage Quality Analysis*

Boone, IA, 2001

Variety	Crude Protein	% In Vitro True Digestibility
WL 319HQ	23.4	79.4
Geneva	22.6	78.1
Magnum V	21.9	76.2
Pioneer® 53Q60	21.9	78.2

La Crosse, WI, 2001

Variety	Crude Protein	% In Vitro True Digestibility
WL 319HQ	22.3	77.1
Magnum V	20.6	75.1
Affinity +Z	21.8	75.2
Pioneer® 53Q60	21.0	74.9

Mount Joy, PA, 2001

Variety	Crude Protein	% In Vitro True Digestibility
WL 319HQ	25.2	82.6
Geneva	25.0	82.4
Magnum V	24.3	81.6
Pioneer® 54V54	24.0	81.0

* 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 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.

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