DLF

SEEDS & SCIENCE

ECLIPSE ALFALFA

- **Industry leading disease package offering enhanced multi-race protection against Aphanomyces* & Anthracnose****
- **Excellent disease resistance**
- **Excellent forage yield with improved forage quality**
- **Very high multifoliate leaf expression**

A perennial forage legume, alfalfa rates highly in forage quality and palatability, yield, and adaptation. Alfalfa fixes its own nitrogen, greatly reducing fertilizer input. Deep taproots access deep soil moisture, increasing drought tolerance. Once rotated, alfalfa leaves a perfect soil structure and nutrient supply for the following crop.

Alfalfa can be cut up to ten times per year, depending on climate (length of growing season) and variety. It grows as monoculture for hay or haylage or in an alfalfa/grass stand for grazing. Stands can remain productive for ten years or more, although the yield will drop off.

SEEDING RATE: **9 Kg/Acre** Pure Stand, **20 Lbs/Acre** Pure Stand

CHARACTERISTICS:

Varietal Class	Synthetic
Ploidy:	Tetraploid
Plant, Early Spring Growth:	34cm
Plant, Spring Height:	104cm
Plant, Spring Growth Habit:	Erect
Plant, Fall Regrowth:	31cm
Plant, Fall Growth Habit (Dormancy):	4.4
Winter Survival Rating:	Good, 1.6
Stem Length:	104cm
Stem Thickness:	Medium
Stem Pubescence:	Absent, 0%
Leaf Colour:	Dark Green
Multifoliate Leaf (MF) Expression:	Very High (>76%)
Average Multifoliate Expression:	3.1
Days to Flowering:	35
Flower Colour:	98% Purple, 2% Cream
Root Type:	Tap
Crown Width:	Medium
Crown Depth:	Medium
Pod Shape:	Crescent-Shape to Colied in Three Spirals
Pod Pubescence:	Absent, 0%

Blue Alfalfa Aphid:	Not Tested
Pea Aphid:	Resistant
Spotted Alfalfa Aphid:	Resistant
Potato Leafhopper:	Not Tested
Cowpea Aphid:	Not Tested
Stem Nematode:	Resistant
Northern Root Knot Nematode:	Not Tested
Anthracnose:	Highly Resistant
Aphanomyces Root Rot:	Highly Resistant
Bacterial Wilt:	Highly Resistant
Fusarium Wilt:	Highly Resistant
Phytopthora Root Rot:	Highly Resistant
Verticillium Wilt:	Highly Resistant
Aphanomyces Root Rot (Race 2):	Highly Resistant
Aphanomyces Root Rot (Enhanced):	Highly Resistant
Anthracnose (Race 5):	Highly Resistant
FALL DORMANCY:	**4.4**
WINTER SURVIVAL:	**Good, 1.6**

Highly Resistant, 51% or more resistant plants
Moderately Resistant, 15 - 30% resistant plants
Susceptible, 0 - 5% resistant plants
Resistant, 31 - 50% resistant plants
Low Resistance, 6 - 14% resistant plants

*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.

**Anthracnose Race 5 was recently confirmed by researchers at Forage Genetics International, LLC (FGI) and USDA's Agricultural Research Service.

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DLF YIELD COMPARISON TRIALS

Variety	Harvest Years	Total Cuts	Years @ Station	Total Yield (Kg/Ha)	Yield Index %
Eclipse	**2021-'22**	**38**	**12**	**12141.8**	**101**
AAC Trueman	2021-'22	38	12	11429.4	95
Eclipse	**2019-'22**	**66**	**20**	**11813.5**	**101**
Surge HG	2019-'22	66	20	11588.3	99
Velvet II	2019-'22	66	20	11509.3	98
Eclipse	**2019-'22**	**43**	**14**	**11859.6**	**102**
WL 366HQ	2019-'22	43	14	11304.3	97
Eclipse	**2022**	**4**	**1**	**9697.8**	**105**
Althena	2022	4	1	8319.3	90
Eclipse	**2019-'20**	**12**	**5**	**12001.6**	**102**
Dominator	2019-'20	12	5	11890.7	101
55Q27	2019-'20	12	5	11845.1	100
Eclipse	**2016-'18**	**56**	**13**	**15602.3**	**111**
Boost HG	2016-'18	56	13	14033.1	100

DLF YIELD SUMMARY

Variety	Harvest Years	Total Cuts	Number of Years @ Station	Total Yield (Kg/Ha)	Yield Index %
Eclipse	**2019-'22**	**81**	**26**	**11989.9**	**101**

DLF MILK YIELD COMPARISONS

Variety	Harvest Years	Total Cuts	Years @ Station	Milk Per Acre (Kg/Ha)	Milk Per Acre (Lb/Ac)	Comp. Checks %
Eclipse	**2019-'22**	**18**	**7**	**25762.7**	**22895**	**107**
Instinct	2019-'22	18	7	25045.4	22345	104
Comp. Check(s)	2019-'22	18	7	23946.9	21365	100

Locations: Ontario, Lindsay, Port Hope
Competitor Check(s): 54Q14, 55Q27, 55Q29, Dominator, Boost HG, Surge HG, AAC Trueman Milk Per Acre & Milk Per Ton values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006

DLF MILK YIELD COMPARISONS

Variety	Harvest Years	Total Cuts	Years @ Station	Milk Per Acre (Kg/Ha)	Milk Per Acre (Lb/Ac)	Comp. Checks %
Eclipse	**2019-'22**	**18**	**7**	**1539.3**	**3394**	**105**
Instinct	2019-'22	18	7	1498	3303	102
Comp. Check(s)	2019-'22	18	7	1457.7	3214	100

Locations: Ontario, Lindsay, Port Hope
Competitor Check(s): 54Q14, 55Q27, 55Q29, Dominator, Boost HG, Surge HG, AAC Trueman Milk Per Acre & Milk Per Ton values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006