

**PRODUCT INFORMATION:**

**Fall Dormancy: 4**

**KEY OBSERVATIONS:** 

- Technology traits: HarvXtra with Roundup Ready® Technology
- Excellent disease resistance
- Reduced lignin for improved forage quality
- Excellent forage yield

## Integrity HVXRR Alfalfa



**VARIETY DESCRIPTION:**

Varietal Class:	Synthetic
Ploidy:	Tetraploid
Plant, Early Spring Growth:	33cm
Plant Spring Height:	118cm
Plant Spring Growth Habit:	Erect
Plant Fall Regrowth:	25cm
Fall Growth Habit (Dormancy):	4
Winter Survival Rating:	Good, 1.4
Stem Length:	100cm
Stem Thickness:	Medium
Stem Pubescence:	Absent, 0%
Leaf Colour:	Dark Green
Multifoliate Leaf Expression:	Medium, 21-40%
Average of Multifoliate:	2.1
Days to Flowering:	37
Flower Colour:	98% Purple, 1% Blue, 1% Cream
Root Type:	Tap
Crown Width:	Medium
Crown Depth:	Medium
Pod Shape:	Crescent-Shape to Coiled in Three Spirals
Pod Pubescence:	Absent, 0%
Seeding Rate:	7-9kg/ac, 15-20lbs/ac

**REACTION TO PESTS & DISEASES:**

Blue Alfalfa Aphid:	Not Tested
Pea Aphid:	Moderately Resistant
Spotted Alfalfa Aphid:	Highly Resistant
Potato Leafhopper:	Not Tested
Cowpea Aphid:	Not Tested
Stem Nematode:	Not Tested
Northern Root Knot Nematode:	Not Tested
Anthraxnose:	Highly Resistant
Aphanomyces Rot (Race 1):	Highly Resistant
Bacterial Wilt:	Highly Resistant
Fusarium Wilt:	Highly Resistant
Phytophthora Root Rot:	Highly Resistant
Verticillium Wilt:	Highly Resistant
Aphanomyces Root Rot (Race 2):	Low Resistance

## Integrity HVXRR Alfalfa

COMPARISON VARIETIES	HARVEST YEAR(S)	TOTAL CUTS	NUMBER OF STATION YEAR(S)	TOTAL YIELD (KG/HA)	YIELD INDEX (%)
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### PROPRIETARY REPLICATED FORAGE PERFORMANCE TRIALS (CANADA & USA)

Integrity HVXRR	2014-'16	9	3	15871.3	N/A
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COMPARISON VARIETIES	HARVEST YEAR(S)	TOTAL CUTS	NUMBER OF STATION YEAR(S)	MILK PER ACRE (KG/HA)	MILK PER ACRE (LB/AC)	% OF PIONEER CHECK(S)
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### MILK YIELD COMPARISON

Integrity HVXRR	2014-'16	9	3	24487.0	21847.0	111
Pioneer Check(s)	2014-'16	9	3	22059.0	19681.0	100

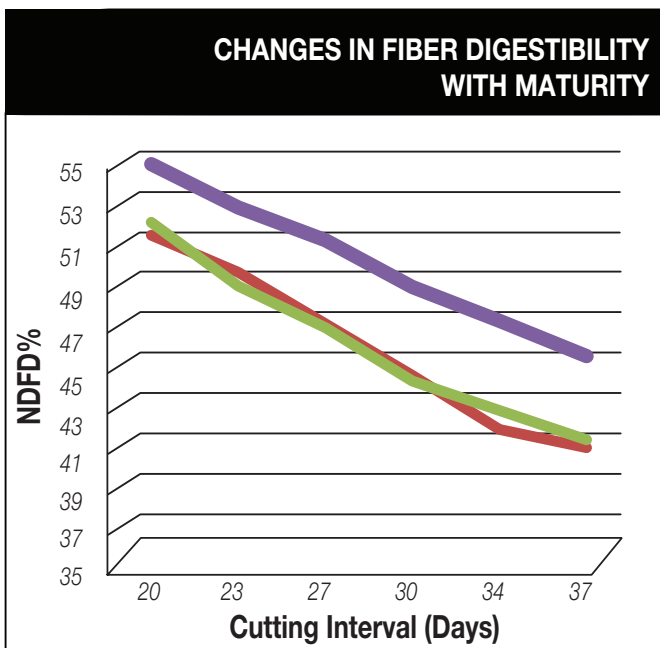
Locations: Wisconsin: West Salem  
 Pioneer Check(s): 55V50  
 Milk Per Acre values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006

COMPARISON VARIETIES	HARVEST YEAR(S)	TOTAL CUTS	NUMBER OF STATION YEAR(S)	MILK PER TON (KG/T)	MILK PER TON (LB/T)	% OF PIONEER CHECK(S)
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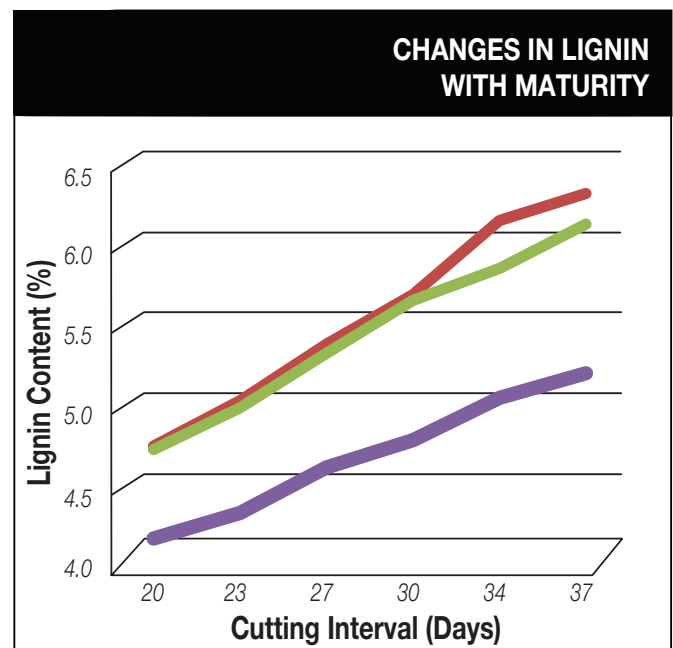
### MILK YIELD COMPARISON

Integrity HVXRR	2014-'16	9	3	1270.2	3086.0	113
Pioneer Check(s)	2014-'16	9	3	1128.2	2741.0	100

Locations: Wisconsin: West Salem  
 Pioneer Check(s): 55V50  
 Milk Per Acre values calculated using the University of Wisconsin Alfalfa/Grass Evaluation System - Milk 2006



Data Summary from 4 locations : WA, ID, IA & WI



Data Summary from 4 locations : WA, ID, IA & WI

■ HarvXtra ■ Conv. ■ Hi-Gest

**Use Limitations for HarvXtra™ Alfalfa with Roundup Ready® Technology.**  
 Do NOT export HarvXtra™ alfalfa with Roundup Ready® technology/any or hay products to China, pending import approval. 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 product purchaser to confirm their buying position for this product. This technology may be sold and planted only in the provinces of Ontario, Quebec, New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland. Please contact the Monsanto Technical Support Line at 1-800-667-4944 or refer to the Technology Use Guide for additional information.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. Roundup Ready® and Roundup® are registered trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. licensee.  
 HarvXtra™ is a trademark of Forage Genetics Internal, LLC. HarvXtra™ Alfalfa with Roundup Ready® Technology is enabled with Technology from The Samuel Roberts Noble Foundation, Inc.