



# PIONEER® BRAND ALFALFA WITH HARVXTRA® TECHNOLOGY



## OLD PROBLEM, NEW TECHNOLOGY



Pioneer® brand alfalfa with HarvXtra® technology brings a unique transgenic solution to the problem of harvesting high quality alfalfa forage. By consistently reducing lignin content of alfalfa at all stages of maturity, HarvXtra varieties have higher forage fiber digestibility and more potential energy for milk and meat production.



## THE ADVANTAGES

### BETTER QUALITY, EVERY CUT

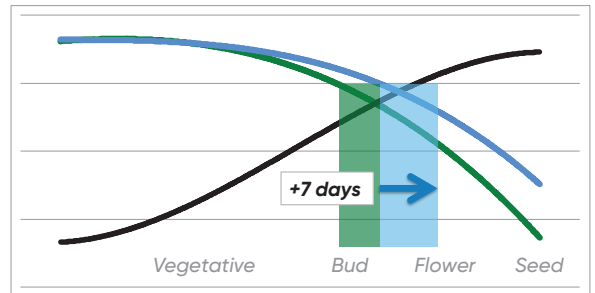
Whatever the harvest timing, relative forage quality is 10-15% higher than varieties without HarvXtra® technology cut at the same time.

### GREATER FLEXIBILITY, LESS RISK

Don't sweat weather or harvest delays. Alfalfa varieties with HarvXtra® technology can be cut up to 7-10 days later than standard alfalfa varieties without sacrificing forage quality. Longer harvest intervals may result in more alfalfa tonnage, one less cut per season and longer stand life.

### CLEAN FIELDS, HIGHER YIELDS

Early season glyphosate weed control can result in higher first-year alfalfa yields and forage quality.



■ Alfalfa varieties w/ HarvXtra® technology ■ Conventional varieties ■ Yield

### CALCULATE VALUE WITH HARVXTRA TECHNOLOGY

Learn more about Pioneer® brand alfalfa varieties with HarvXtra® technology using this calculator on pioneer.com:

[Pioneer.com/us/tools-services/calculate-harvxtra-value.html](http://Pioneer.com/us/tools-services/calculate-harvxtra-value.html)



## THE DIFFERENCE

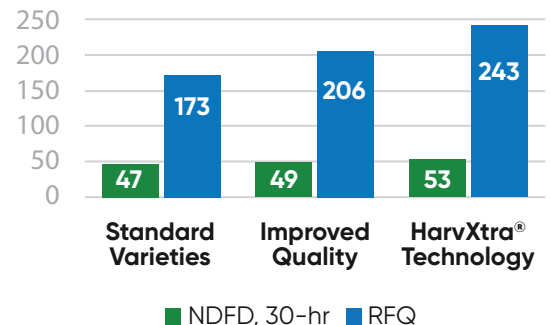
Alfalfa varieties with HarvXtra® technology entries had higher fiber digestibility (NDFD, 30-hr) and higher Relative Forage Quality (RFQ) than standard, un-improved alfalfa varieties and traditionally bred improved forage quality varieties at the World Forage Analysis Superbowl Contest at the 2017 World Dairy Expo.



## MORE THAN A TRAIT

Pioneer® brand elite alfalfa genetics are the basis of our alfalfa varieties with HarvXtra® technology. Pioneer's genetics help drive yield performance along with high forage quality. Pioneer's elite genetics are backed by industry-leading agronomy and nutritional support services.

### World Forage Analysis Superbowl Contest Forage Quality Differences\*





## MAXIMIZE THE PERFORMANCE OF YOUR ALFALFA

with Pioneer® brand inoculants, designed to get more mileage from your alfalfa silage crops. **Pioneer® inoculant 11H50** is an alfalfa silage inoculant designed to speed up fermentation, reduce protein degradation and improve dry matter recovery.



\* Data summarized from World Forage Analysis Superbowl Contest held at the 2017 World Dairy Expo. Entries for the Dairy Hay (A1), Haylage (A2), Commercial Hay (B1), and Baleage (B2) categories where the alfalfa variety was properly identified are included in the dataset. The assignment of forage quality type into Standard Varieties, Improved Quality, and HarvXtra® Technology was based on variety names (contains letters like "Q", "HQ", "Hi-Gest", etc.) and company information about the forage quality potential of each variety. Forage quality comparison data includes Neutral Detergent Fiber Digestibility (NDFD, 30-hr) and Relative Feed Quality (RFQ). Contest partners include Dairyland Laboratories, Inc., Dairy Business Communications, Hay and Forage Grower, University of Wisconsin, U.S. Dairy Forage Research Center, and World Dairy Expo.

HarvXtra® is a registered trademark of Forage Genetics International, LLC. HarvXtra® alfalfa with Roundup Ready® technology is enabled with technology from The Samuel Roberts Nobel Foundation, Inc. Roundup Ready® is a registered trademark used under license from Monsanto Company.

**Do not export Pioneer® brand alfalfa seed or crops containing Genuity® Roundup Ready® technology including hay or hay products, to China pending import approval. In addition, due to the unique cropping practices, do not plant this product in Imperial County, California.**



**Always Read and Follow Pesticide Label Directions.** Alfalfa with the Genuity® Roundup Ready® technology provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions. Glyphosate agricultural herbicides will kill crops that are not tolerant to glyphosate. **ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS VARIETY COULD RESULT IN TOTAL CROP LOSS.**

**Pioneer is a member of Excellence Through Stewardship® (ETS).** Pioneer products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. For further information on the approval status of biotech traits, please visit [www.biotradestatus.com](http://www.biotradestatus.com).

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