

Pioneer® brand 11AFT is a revolutionary patented alfalfa silage product designed to:

- Improve fibre digestibility
 - Improve forage energy density to help reduce supplemental feed cost
 - Improve alfalfa fermentation
- Available as a water-soluble product in packaging suitable for use in tank mixes or with the Pioneer Appli-Pro® systems for easy and convenient application.

11AFT contains a novel strain of *Lactobacillus buchneri* which:

- Produces specific fibre-digesting enzymes as it replicates in silage
- Reduces shrink and improves aerobic stability of the silage face during feedout

11AFT also contains a unique strain of alfalfa specific *Lactobacillus plantarum* formulated to:

- Stimulate "front-end" fermentation efficiency by rapidly dropping pH, helping to retain valuable nutrients (sugar)
- Reduce protein degradation
- **Help lower feed costs by reducing need for bypass protein supplementation**
- Excellent choice for high-production animals fed high levels of alfalfa silage

Available in Package Sizes:



X	Improves fermentation and reduces dry matter loss
X	Improves nutrient preservation
X	Significantly reduces heating at the silage face
X	Helps reduce heating in entire Total Mix Ration (TMR)
X	Improves fibre digestibility

IMPORTANT: Information and ratings are based on relative comparisons with other Pioneer® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additive Research, based on average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future results. Product responses are variable and subject to any number of environmental and management conditions. Please use this information as only part of your product positioning decision. Contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer® brand product. Fermentation – rate and extent of pH decline and the composition of fermentation acids occurring in silage. Aerobic Stability – relative heat development compared to ambient temperature. Aerobic Stability considers both how quickly silage begins to heat and the amount of heat generated while remaining above ambient temperature. Fibre Digestibility – the digestibility of neutral detergent fibre (NDF) by the ruminant animal expressed as a percentage of the total NDF.

Animal research shows 11AFT is effective in improving NDF digestibility

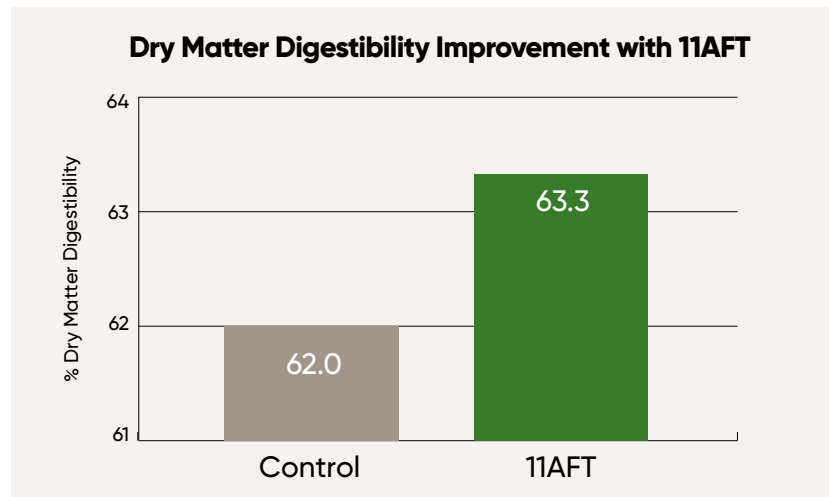
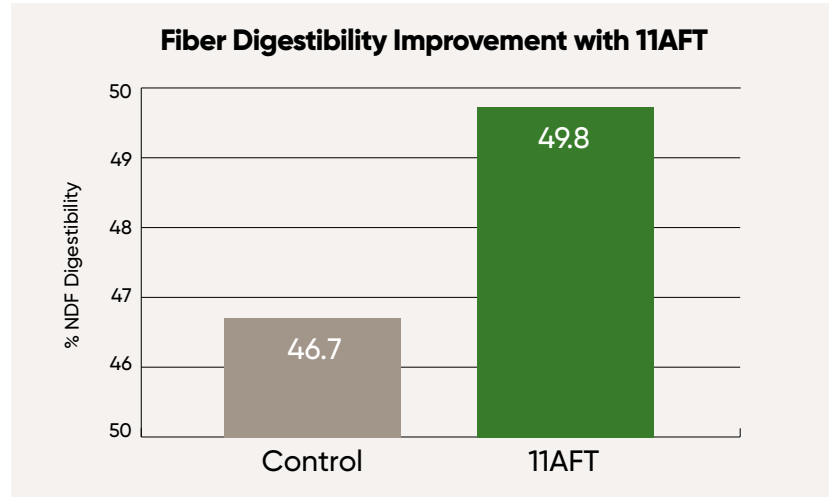


Chart 1: Source: Pioneer Livestock Nutrition Center, Iowa. Summary of six trials (first and second cut alfalfa). In situ measurements were conducted on each silo using fistulated beef steers.

Chart 2: Source: Pioneer Livestock Nutrition Center, Iowa. First cut alfalfa silage lamb digestion using twelve replicate lambs per treatment.



Pioneer® Brand Inoculants

Pioneer proprietary silage inoculants continue to provide those striving to make high quality silage with unique products that reduce silage dry matter losses and improve silage quality.

Mode of Actions	Product	Forage	Purpose
Unique Fibre Technology	11GFT	Grass and wholecrop cereal silages	Fermentation, animal performance and fibre digestibility, aerobic stability
	11CFT	Maize silage	Fermentation, animal performance and fibre digestibility, aerobic stability
	11AFT	Lucerne silage	Fermentation, animal performance and fibre digestibility, aerobic stability
	11CH4	A wide range of high dry matter silages	Aerobic stability and gas production
Traditional Technology with Rapid React	PIONEER® 11G22 RAPID REACT AEROBIC STABILITY	High dry matter grass, wholecrop cereal and pea/cereal silages	Fermentation, animal performance and aerobic stability
	PIONEER® 11C33 RAPID REACT AEROBIC STABILITY	Maize silage	Fermentation, animal performance and aerobic stability
	PIONEER® 11B91 RAPID REACT AEROBIC STABILITY	Crimped maize grain	Fermentation, animal performance and aerobic stability
	PIONEER® 1188	Grass silage below 30% dry matter	Fermentation and animal performance
	PIONEER® 11A44	A wide range of high dry matter silages	Aerobic stability