PIONEER® BRAND

1188 GRASS SILAGE INOCULANT

PIONEER®

Pioneer® brand 1188 is a grass silage inoculant containing four strains of *Lactobacillus plantarum* and two strains of *Enterococcus faecium* designed to:

- Be the first Pioneer inoculant produced according to the rigid ISO standards
- Reduce dry matter losses
- Offer multiple lactic acid producing strains providing reliability in a wide range of conditions
- Provide the longest guaranteed shelf life of any silage inoculant
- Improve milk production - trials at the Agricultural Research Institute of Northern Ireland (Hillsborough) have demonstrated that, even with a second cut silage at 32.5 % dry matter, PIONEER® 1188 can lift milk yields by an impressive 1.45 kgs per day.

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.

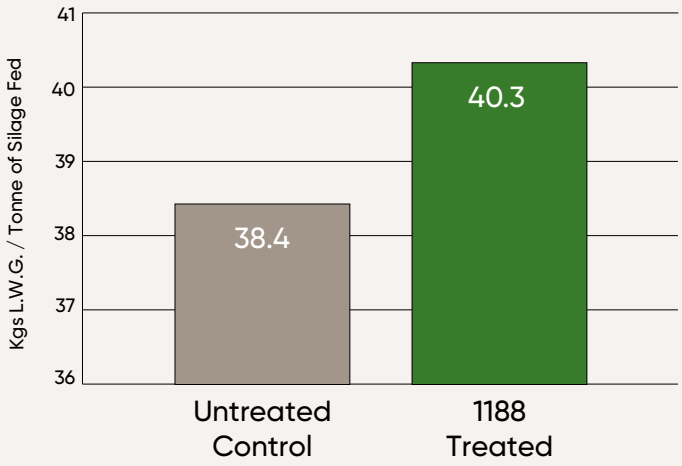
20% reduction of in-silo losses
46% reduction of ammonia content
3.5% increase in digestibility
50% increase of rumen microbial protein
Reduces effluent by 11%
Extra 4 kg of beef live-weight gain per ton of grass ensiled
Extra 1.5 kg milk per day

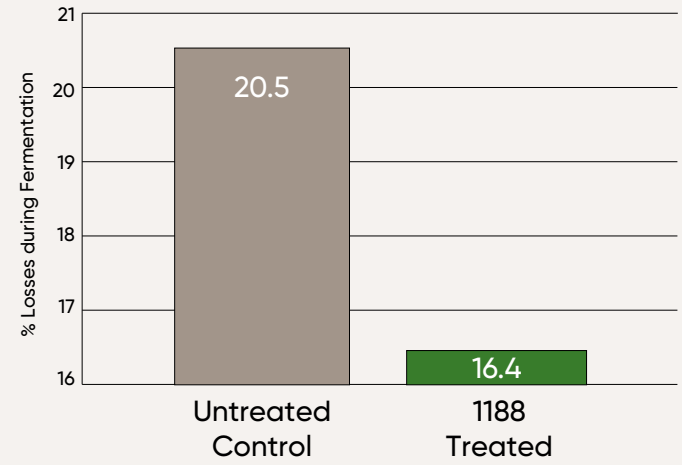
Available in Package Sizes: 	
X	**Improves fermentation and reduces dry matter loss**
X	**Improves nutrient conservation**
X	**Significantly reduces heating at the silage face**
X	**Helps reduce heating in entire Total Mix Ration (TMR)**
X	**Improves fibre digestibility**

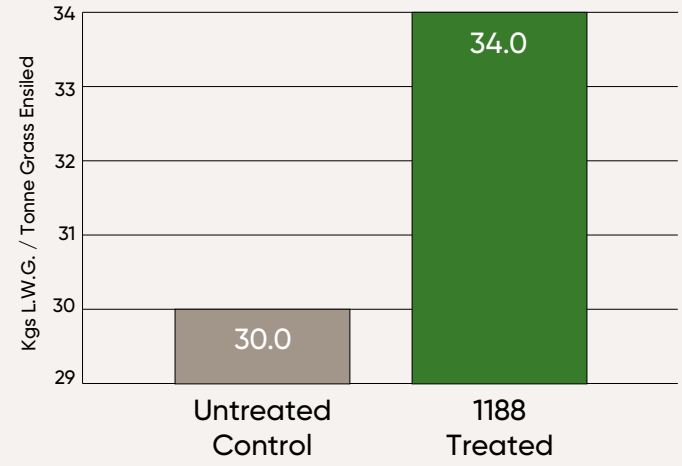
IMPORTANT: Information and ratings are based on relative comparisons with other Pioneer® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additive Research, based on average performance across area of use under normal conditions, 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.

Improving Live-Weight Gains

A series of five beef feeding trials has demonstrated that each tonne of Pioneer® 1188 treated silage is capable of supporting an additional 4 kgs of live-weight gain.







Source: A comprehensive series of trials at Newcastle University, over a number of different silage seasons, demonstrated that PIONEER® Brand 1188 treatment reduced typical dry matter losses by 20 %. At a yield of 10 tonnes fresh grass ensiled per acre, this represents a saving of 0.5 tonnes of silage per acre.

Plant Grow Harvest Store Feed The Silage Zone®

PIONEER®

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	Alfalfa/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