

P I O N E E R[®]

B R A N D



MAIZE SILAGE



KEEPING IT COOL

When silage heats it loses valuable nutrients which could have been used by the cow to produce milk. By applying the right silage inoculant and using good harvest, storage and feed-out management techniques, you can reduce heating in your maize silage.

The Pioneer® brand silage inoculant range includes products which are proven to reduce heating, improve fermentation quality, and deliver more milk for every tonne of maize ensiled.

Keep your maize cool and put more milk in your vat this season.



COOL MAIZE SILAGE INOCULANTS

Maize silage contains high levels of starch and sugar. When exposed to the air at feed-out time yeast and moulds can grow. They use valuable feed nutrients producing heat and decreasing silage quality.

The Pioneer® brand inoculant range includes products that can reduce heating and spoilage at feed-out time. Use the table on page 4 to choose the right Pioneer inoculant for your maize silage.

Pioneer inoculants offer a complete range of benefits which include:

- + Products that reduce heating and spoilage at feed-out time
- + Maize silage specific products
- + Patented bacterial strains
- + Comprehensive, global, product-specific research
- + Quality assurance with ISO 9001:2000 accredited quality control system
- + Guaranteed bacteria levels on the label of every bottle
- + Exclusive Appli-Pro® inoculant applicator technology for more consistent and precise inoculant application
- + Extensive local technical back-up including Forage Specialists, Animal Nutritionists and a Veterinarian

Contact your local merchant representative and contractor today.

www.pioneer.co.nz 0800 PIONEER 0800 746 633

Pioneer® brand products are provided subject to the terms and conditions of purchasing, which are part of the labeling and purchase documents.

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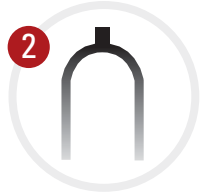
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COOL MAIZE MANAGEMENT



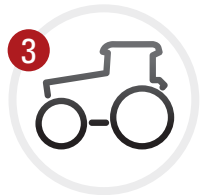
Harvest management

- + Harvest your crop at 30-38% whole plant drymatter
- + Aim for a maize chop length of 12-14mm
- + Use a plant processor to ensure all kernels are cracked



Pioneer® brand inoculant

- + Use the guide on page 4 to select the best Pioneer silage inoculant
- + Choose a contractor that will apply Pioneer inoculant at harvest time



Compaction

- + Spread each load into 100-150 mm layers
- + Compact until the silage surface is firm



Sealing

- + Cover with a high quality plastic cover
- + Tape the joins
- + Seal the edges with sand or lime
- + Ensure tyres are touching one another right across the stack



Feeding out

- + Keep the stack or bunker face tight throughout the feed-out period
- + Remove loose material each day

PIONEER SILAGE INOCULANT OPTIONS

Farming challenge



Product solution Product benefit

I want to reduce silage heating at feed-out time.

I want to feed-out my silage up to one day in advance¹.

I want to improve fibre digestibility and increase cow intake.

My goal is very high per cow performance.

I want to feed-out my silage up to one day in advance¹.

I want to maximise the return on my silage investment.

Silage heating at feed-out isn't normally an issue for me.

I want a lower cost multi-crop product which will improve silage quality.

PIONEER® BRAND
11C33
Maize specific inoculant

Maize silage specific inoculant that helps improve forage quality and drymatter recovery¹.

PIONEER® BRAND
11CFT
Maize specific inoculant

Revolutionary new maize specific inoculant for high feed value and improved drymatter recovery¹.

PIONEER® BRAND
1132
Maize specific inoculant

Produces top quality maize silage for high producing dairy cows and specialised beef production.

PIONEER® BRAND
1174
multi-crop inoculant

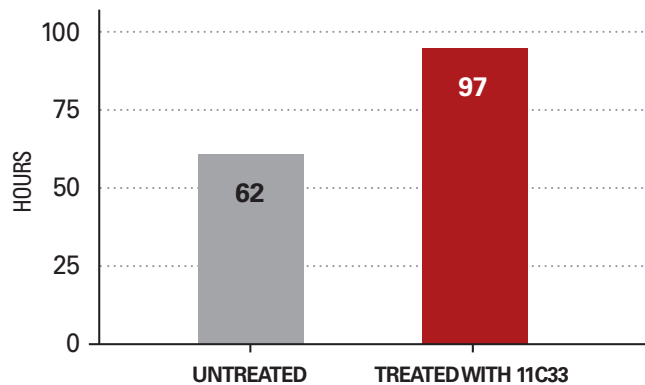
Improves drymatter recovery and silage quality of all forage crops.

PIONEER® BRAND 11C33

11C33 is a maize silage specific inoculant that enhances silage fermentation quality and reduces the growth of yeasts and moulds responsible for heating and silage spoilage at feed-out time.

- + Improves maize silage quality
- + Reduces heating at feed-out time²
- + Feed-out up to 24 hours in advance²

TIME BEFORE MAIZE SILAGE HEATS³



PIONEER® BRAND **NEW** 11CFT

11CFT is a revolutionary new maize silage specific inoculant that improves fibre digestibility and reduces the growth of yeasts and moulds responsible for heating and silage spoilage at feed-out time². 11CFT is ideal for farmers who are aiming to achieve very high per cow performance.

PIONEER® BRAND 1132

1132 is a maize silage inoculant that improves maize silage quality and reduces silage losses (including shrinkage) during the silage-making process. Cows fed 1132 treated silage produce more milk per tonne of maize ensiled.

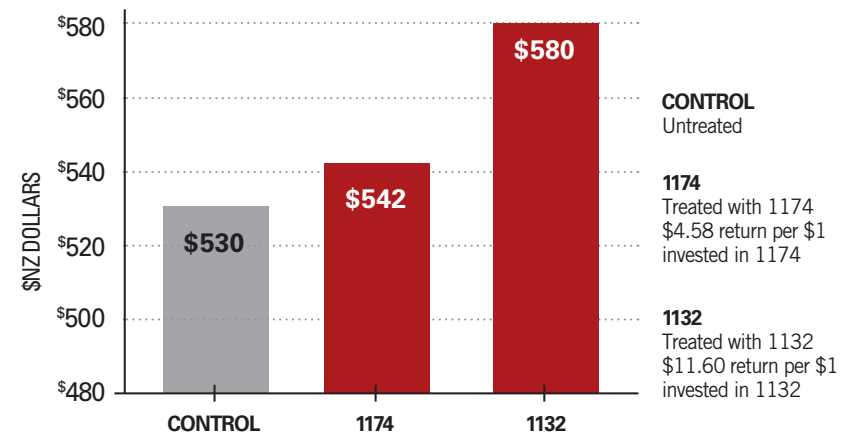
- + Improves maize silage quality
- + Reduces silage losses during the ensiling process
- + Delivers more milk per tonne of maize ensiled

PIONEER® BRAND 1174

1174 is a lower cost multi-crop inoculant which improves maize silage quality and reduces silage losses (including shrinkage) during the silage-making process.

- + Improves maize silage quality
- + Reduces silage losses during the ensiling process
- + Delivers more milk per tonne of maize ensiled

MILK RETURN PER TONNE OF MAIZE ENSILED⁴



²For maximum aerobic stability benefits, silage must ferment at least 30 days before feeding.
³Aerobic stability of whole plant maize silage treated with Pioneer® brand 11C33. Forage was ensiled for 50-75 days and aerobic stability determined as the number of hours silage remained cool when exposed to air under the specifications of the Honig model. Data is an average from 48 locations tested from 2000-2002.

⁴Returns are calculated relative to an untreated control using drymatter recovery data from Pioneer trials, Washington State University dairy trial milk production results and a milk solids payout of \$7.30/kg/MS.

If undelivered please return to PO Box 105303 Auckland 1143.

New Zealand
Permit No. 5829



Please call 0800 PIONEER (0800 746 633) if your contact details need updating.