



PIONEER[®]

MADE TO GROW[™]

**TRIAL RESULTS FOR
2023/24 SELECTION**

FACTS[®]

Maize Hybrids



FACTS[®]
Pioneer Accurate Crop Testing System

Dear Pioneer Maize Grower,

We are very pleased to present to you the Pioneer maize hybrid range for 2023 and the results of the 2022 PACTS Trials. PACTS is an abbreviation for 'Pioneer Accurate Crop Testing System', we conduct these on-farm trials every year so that we can accurately describe the performance of the Pioneer maize hybrids we offer for sale.

Correctly describing our products is very important to us – it enables our customers to select the correct hybrid for their needs. When you choose a Pioneer hybrid tested in PACTS Trials you can be sure farmers with the same challenges as you have thoroughly evaluated it on their farms in a commercial production situation.

PACTS® hybrid highlights

P7179 – Extra Early – NEW

P7179 is a very promising new hybrid for sowing in 2023. It has been tested over 11 locations and two years on favourable PACTS sites, and 12 locations over two years on less favourable sites. On favourable sites it has given a dry matter yield 8% above the Control hybrid with a dry matter content of 43.5%. On less favourable sites it has yielded 6% above the Control hybrid with a dry matter content of 41% P7179 has a flint grain texture.

P7326 – Extra Early

The biggest selling Pioneer maize hybrid in the UK in 2022. Many growers in the UK and Ireland hold this extra early maturity flint-dent grain textured hybrid in high regard, and not least because it delivers the reliability growers often seek. If you are looking for a hybrid that will come to harvest rapidly on favourable sites, or a hybrid that will deliver yield and quality silage even on less favourable sites, P7326 is proven to perform.

P7034 – Very Early

The second biggest selling Pioneer hybrid across the UK and Ireland in 2022. The area planted to this early flowering, and very early maturity, dent grain textured hybrid has increased every year in both countries since its launch in 2018. P7034 qualifies as being what we term an M³ hybrid (pronounced 'M cubed'). P7034 is the only M³ hybrid suited to the UK. Growers clearly appreciate its starch yield and the big impact its impressive rumen degradable starch content has on how well it feeds! Clamp P7034 last and feed it first to take full advantage of its M³ quality.

P7364 – Very Early

Commercially available in Ireland in 2023 and due to be launched in the UK in 2024. P7364 combines a very high yield with earliness and very good standing power. On favourable sites, over 19 locations and three years, it has given a dry matter yield 12% above the Control hybrid. It is suited to favourable sites and the better less favourable sites.

P7948 – Early

P7948 is second for yield on the favourable site results but with an early level of maturity. This flint textured hybrid has the ability to add many extra tonnes to your silage clamp. Now tested on 31 favourable locations in the open over the last 4 years it has given a dry matter yield 15% higher than the Control hybrid P7034.

P8200 – Intermediate

P8200 is a very large stature hybrid that dries down rapidly at maturity and produces very high dry matter yields. It has shown good adaptation to favourable sites when grown in the open, and a very wide range of sites when sown using the Samco System. Aided by the Samco System and its flint grain texture, P8200 has delivered high dry matter yields in the coldest of seasons.

P8201 – Intermediate

P8201 combines a very high dry matter yield with a high yield of rumen degradable starch. It responds to favourable locations in the open and to the heat generated under film. P8201 can satisfy the dry matter and starch yield ambitions that growers investing in the Samco System are aiming for.

P8171 – Very Late

One of the latest hybrids in the range for the UK and Ireland. Big yielding for the most favourable locations in the open and favourable sites when grown under film.

Pioneer brand inoculants

Our comprehensive proprietary range of silage inoculants have been developed to reduce dry matter losses and improve silage quality. Whether you are making grass silage in cool challenging environments or maize silage in ideal conditions, applying the most appropriate Pioneer silage inoculant can make dramatic differences to your profitability. **You can see the full range of our silage inoculants on pages 8 and 9.**

As always, our sincere thanks go to the farmers and contractors who have participated in the 2022 PACTS Trials. We couldn't do it without you!

Yours sincerely,

On behalf of Corteva Agriscience

Andy Stainthorpe

Seeds and Silage Inoculant Sales Manager,
UK and Ireland

Your key UK and Ireland contacts

We're here to answer any queries about Pioneer maize and silage inoculants.

Forage Specialists

Andy Stainthorpe

UK & Ireland

Office: **01823 334279**

Mobile: **07801 183234**

Email: **andy.stainthorpe@corteva.com**



Jonathan Bellamy

Central England & North Wales

Office: **01270 619825**

Mobile: **07801 183233**

Email: **jonathan.bellamy@corteva.com**



Beckie Cartwright

Northern England
& Scotland

Mobile: **07917 520707**

Email: **rebecca.cartwright@corteva.com**



Chris Woodget

South England & South Wales

Mobile: **07388 850904**

Email: **chris.woodget@corteva.com**



Forage and Seed Promoters

Chris Pashby

North West Promoter

Mobile: **07737 612318**

Territory: **Cheshire, Staffordshire,
Derbyshire and Nottinghamshire**



Tom Carey

West Midlands Promoter

Mobile: **07432 154981**

Territory: **Shropshire, Herefordshire,
Worcestershire, Leicestershire
and Warwickshire**



Pieter Botha

South East Promoter

Mobile: **07915 127965**

Territory: **Oxfordshire, Berkshire,
Wiltshire, Hampshire, Isle of Wight,
West Sussex, East Sussex and Kent**



Matt Conradie

South West Promoter

Mobile: **07788 735780**

Territory: **West Wales, South Wales,
Gloucestershire, Somerset, Dorset,
Devon and Cornwall**



PACTS® Trials background

Whether a particular maize hybrid realises its full genetic potential depends largely upon how well it is adapted to the growing environment and how successfully it is managed. The PACTS Trials are conducted to help growers identify which Pioneer hybrids are best suited to their location and cropping needs. Trial locations are selected so that they fully reflect the sites and growing practices typical of those found in the UK and Ireland.

Layout

Each PACTS trial is established within a commercial crop of maize and is planted and harvested by the host farmer with the close assistance of Pioneer staff. All trial plots are managed as part of the whole field, so performance measured is as a consequence of local weather conditions and the type of commercial crop management practiced at each location.

A PACTS trial is generally comprised of between 15 and 20 plots. The plots are planted in identically sized marked areas adjacent to each other across a uniform part of the selected field. Each plot is 6 or 8 rows wide and normally 50 metres in length. Typically, every fourth strip is the same hybrid and is designated as a Control variety. The Control hybrid provides data that is used to offset the variable effects of soil type changes across a trial. In 2022, the Control hybrid was P7034.

Sites

Each trial site is classified as being Favourable or Less Favourable depending upon the heat that would typically be accumulated at that location. The results of individual trials conducted this year are shown within. Occasionally due to space restrictions some trials are not shown. The results from any trials either this year or previous years are always available on request.

Competitor hybrids

Typically, three or four widely grown hybrids from competitor plant breeding companies are included in each PACTS trial. The competitors selected for each site depend on whether a site is favourable or less favourable. The competitor hybrids used in 2022 were Prospect, Calvini KWS, Ambition and Resolute.

Contents

| | |
|--|-----------|
| BIOSTIMULANTS | 6 |
| M³ DENT GENETICS | 7 |
| PIONEER INOCULANT PRODUCT GUIDE | 8 |
| PACTS RESULTS SUMMARIES | 10 |
| PACTS HYBRID DESCRIPTIONS | 18 |
| PACTS INDIVIDUAL SITE RESULTS | 44 |
| PACTS TRIALS DETAILS | 56 |

Sample testing

Representative samples from every PACTS forage plot are taken after harvest and sent for Near Infra-Red Spectrophotometer (NIRS) laboratory quality testing. NIRS testing provides multiple forage quality parameters including starch content, whole plant digestibility and neutral detergent fibre (NDF).

Cob samples are also taken on the day of harvest from selected plots to enable the testing for rumen degradable starch. Rumen degradable starch measurements in PACTS trials are considered a key parameter of starch quality. This testing enables Pioneer growers to consider relative hybrid rumen degradability when selecting a maize hybrid.

The extensive PACTS testing programme ensures that the quality data generated is strongly indicative of the maize silage a seed purchaser can expect to harvest when growing a particular Pioneer hybrid.



Maize hybrid selection

The selection of a particular hybrid for cultivation inevitably varies according to the different criteria a grower has. In many situations yield is of paramount importance but earliness of maturity is usually another critical factor. Other factors such as standing power, silage nutritional quality and end-use intentions e.g. whole plant silage fed to livestock or used for biogas production should be taken into account. No single hybrid will suit all situations.

The factors shown in the table below are just some of those that can have a major influence on the quantity, quality and value of the maize crop produced.

Growing a maize crop that meets all requirements depends upon selecting a hybrid with the most appropriate genetic potential and then managing that hybrid in a manner that will meet the chosen objectives.

| The environment | Crop husbandry | Hybrid genetics |
|------------------------|-------------------------|----------------------------|
| Latitude | Seedbed quality | Yield potential |
| Soil type | Drilling date | Crop maturity |
| Altitude | Planting population | Disease resistance |
| Aspect | Fertiliser policy | Standing power |
| Shelter | Use of the Samco System | Grain type (Flint or Dent) |
| Harvesting and storage | Use on-farm | Sell off-farm |
| Harvesting method | Whole plant silage | Silage quality |
| Harvest timing | Ensiled crimped grain | Aerobic stability |
| Storage method | Biogas production | Value versus other feeds |
| Feed-out methods | Ration balancing | Local demand |
| Use of inoculant | Long term feed supply | Transport costs |

Historical forage PACTS® trials results summary

| Year | Control Hybrid | Fresh Weight Yield Tonnes/Hectare (t/ha) | Dry Matter (%) | Dry Matter Yield (t/ha) | Starch (%) | Starch Yield Converted to Grain (t/ha at 15% Moisture) | Sugar (%) | Whole Plant Digestibility (%) | Neutral Detergent Fibre (%) | Number of Sites |
|---------|----------------|--|----------------|-------------------------|------------|--|-----------|-------------------------------|-----------------------------|-----------------|
| 2022 | P7034 | 34.778 | 38.2 | 13.4 | 40.5 | 8.093 | 1.4 | 77.2 | 35.5 | 17 |
| 2021 | P7892 | 42.295 | 35.0 | 17.3 | 35.3 | 9.306 | 2.8 | 75.2 | 59.4 | 15 |
| 2020 | P7892 | 45.488 | 35.7 | 16.3 | 30.9 | 7.692 | 5.2 | 67.6 | 40.6 | 16 |
| 2019 | P7892 | 43.243 | 39.3 | 17.0 | 34.7 | 9.019 | 4.5 | 68.8 | 41.4 | 19 |
| 2018 | P7892 | 41.295 | 37.0 | 14.8 | 31.5 | 7.130 | 3.8 | 69.6 | 41.4 | 14 |
| 2017 | P7892 | 48.662 | 35.8 | 18.0 | 32.6 | 8.975 | 5.1 | 70.4 | 37.9 | 19 |
| 2016 | P7892 | 47.607 | 35.8 | 17.0 | 33.2 | 8.660 | 5.6 | 70.4 | 40.9 | 14 |
| 2015 | PR39V43 | 47.603 | 31.9 | 15.2 | 25.0 | 5.807 | 9.8 | 69.5 | 43.2 | 15 |
| 2014 | PR39V43 | 47.822 | 36.2 | 17.3 | 34.1 | 9.022 | 5.4 | 68.8 | 40.5 | 18 |
| 2013 | PR39V43 | 44.695 | 35.6 | 15.9 | 35.3 | 8.587 | 4.0 | 71.6 | 38.9 | 13 |
| 2012 | PR39V43 | 37.966 | 32.4 | 12.3 | 29.4 | 5.531 | 4.9 | 70.1 | 43.0 | 12 |
| 2011 | JUSTINA | 48.100 | 33.1 | 15.9 | 31.1 | 7.586 | 2.1 | 70.1 | 43.6 | 14 |
| 2010 | JUSTINA | 45.994 | 33.7 | 15.5 | 36.2 | 8.582 | 1.4 | 70.6 | 41.7 | 10 |
| 2009 | JUSTINA | 55.161 | 31.0 | 17.1 | 27.2 | 7.114 | 4.8 | 66.0 | nr | 13 |
| 2008 | JUSTINA | 46.108 | 30.4 | 14.0 | 30.0 | 6.425 | 3.4 | 69.1 | nr | 16 |
| 2007 | JUSTINA | 55.853 | 29.9 | 16.7 | 30.0 | 7.662 | 3.3 | 68.2 | nr | 14 |
| 2006 | JUSTINA | 45.042 | 35.3 | 15.9 | 37.0 | 8.998 | 3.0 | nr | nr | 13 |
| 2005 | JUSTINA | 54.633 | 31.3 | 17.1 | 33.4 | 8.735 | 2.6 | nr | nr | 16 |
| 2004 | JUSTINA | 50.774 | 32.3 | 16.4 | 33.9 | 8.503 | 2.7 | nr | nr | 15 |
| 2003 | JUSTINA | 50.629 | 31.8 | 16.1 | 33.0 | 8.126 | 3.0 | nr | nr | 17 |
| Average | | 48.443 | 33.1 | 16.0 | 32.1 | 7.888 | 4.1 | 69.5 | 41.2 | 15 |

NOTE: All trials included in this summary were grown in the open; nr = not recorded

A unique way to enable plants to capture nitrogen all season.

BlueN™

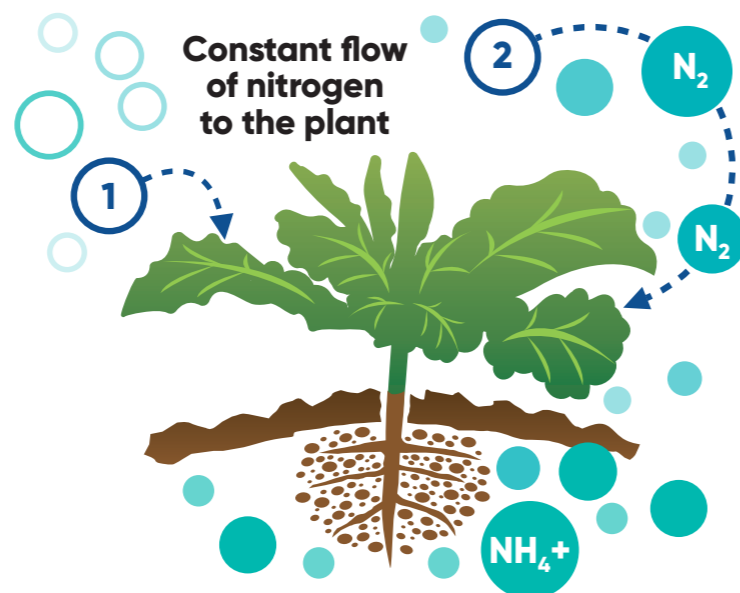
NUTRIENT EFFICIENCY
BIOSTIMULANT

What is BlueN?

BlueN™ is a nutrient efficiency biostimulant for use in a broad range of crops. It contains *Methylobacterium symbioticum*, a bacteria found in nature, which fixes nitrogen from the air and converts it for the plant. BlueN provides a sustainable, additional source of nitrogen for the plant, ensuring the plant has access to nitrogen all season long.

How it works

- 1 BlueN enters the plant through the stomata and colonises around the leaf cells.
- 2 It then converts N₂ from the air into ammonium, resulting in a constant supply of nitrogen to the plant.



For more information on BlueN visit: www.corteva.co.uk/products-and-solutions/biologicals
To keep up to date with information on BlueN and future biostimulants visit: corteva.co.uk/signup



Heads up!

We're giving away Pioneer branded baseball caps to the first 100* participants who help us with our short PACTS book survey.

To be in with your chance, simply scan the QR code or visit: my.corteva.com/PACTS2023Survey



The impact of M³ dent genetics on faecal starch losses and milk production.



P7034 is the first Pioneer maize hybrid to meet the M³ advancement criteria and provide UK growers with access to the advantages of dent textured grain.

When feeding cows or beef cattle dent maize can provide a significant nutritional advantage – i.e. increased ruminal starch degradability. Dent starch is high in soft-floury endosperm and is more readily broken down in the rumen than the hard, vitreous endosperm found in flint grain hybrids.

Starch that isn't broken down and digested in the rumen or hindgut will pass through the cow to be excreted in the faeces. Nutritionally, this is an expensive loss – indicating poor utilisation, nutrient losses and wasted energy. Ideally, residual starch losses should be less than 3% (Urness, Oct 2011), with losses over 5% being a cause for concern.

Studies have shown that dent hybrids demonstrate a 2% reduction in faecal starch losses compared to typical flint hybrids (Laflotte, et al July 2016). Each 1% reduction in faecal starch can be equated to an extra 0.35l milk/day (Ferguson, 2003). The 2% reduction in faecal starch associated with dent hybrids gives an additional 0.7l milk/cow/day. Based on a typical forage intake of 30kgs maize silage/cow/day, 1 tonne of maize silage would feed 33 cows/day. At 0.7l/day this equates to 23 litres milk/tonne of maize silage fed. Assuming a price of 32p/litre for milk (Defra, September 2021) and 23 litres of milk/tonne of maize silage, an **additional £7.36 of milk/tonne can be achieved** from feeding dent starch silage. **The value of this, assuming 36.8t maize/hectare is £271/hectare.**

The nutritional benefits of feeding maize with dent genetics are quantified by these figures. Ultimately, the reduction in faecal starch losses associated with increased ruminal starch degradability will give rise to increases in milk yield and liveweight gain (the energy required to produce 23l of milk equates to approximately 3.5kg of liveweight gain). M³ genetics are currently only available to the UK grower via Pioneer's hybrid P7034.

Source: Progressive Dairy, 11th Oct 2011 - Faecal starch analysis: a closer look (Jon Urness)

Source: 2015 French Dairy Trial, University of Lorraine Laflotte, A, L. Aubry, B. Mahanna and F. Owens. Proceedings 2016 JAM Meeting Abstract 15902, Salt Lake City, July 2016

Source: Dairy Performance, 29th September 2011 - Getting the rest of the story on faecal starch

Dent type grain showing characteristic deep kernels



Pioneer brand silage inoculant technology

The use of Pioneer silage inoculants will lead to lower dry matter losses, higher nutritional value, and improved aerobic stability.

Complementary, proprietary, and highly efficient strains of lactic acid producing bacteria are incorporated into many Pioneer silage inoculants to convert sugar rapidly and efficiently to lactic acid. The activity of these bacterial strains leads to a much faster drop in silage pH with many beneficial consequences including higher dry matter recovery, increased microbial protein and a reduction in ammonia content.

Pioneer strains of *Lactobacillus buchneri* convert lactic acid to the two compounds acetic acid and propandiol. These strains are included in Pioneer products intended for use on silages at risk from aerobic instability. The compounds they produce, when present together, suppress mould growth, and minimise silage heating. The inclusion of proven Pioneer strains of *L. buchneri* in various Pioneer products ensures silage can be made so that it is aerobically stable.

The latest Pioneer *L. buchneri* strains are faster acting and the incorporation of them can lead to aerobic stability being achieved in as little as 7 days of ensiling. Products including these strains are referred to as Rapid React products. **RAPID REACT. AEROBIC STABILITY**

Special patented strains of *L. buchneri* included in Pioneer Fibre Technology products generate ferulate esterase enzymes during the fermentation process. The activity of these enzymes leads to improved fibre digestion rates and further enhances silage nutritional value.

The full range of Pioneer Silage Inoculants from Corteva Agriscience can be seen at www.corteva.co.uk/Pioneer/silage-inoculants



Pioneer inoculants enable faster and more efficient fermentation, meaning less dry matter losses and improved stability and digestibility of silage crops.

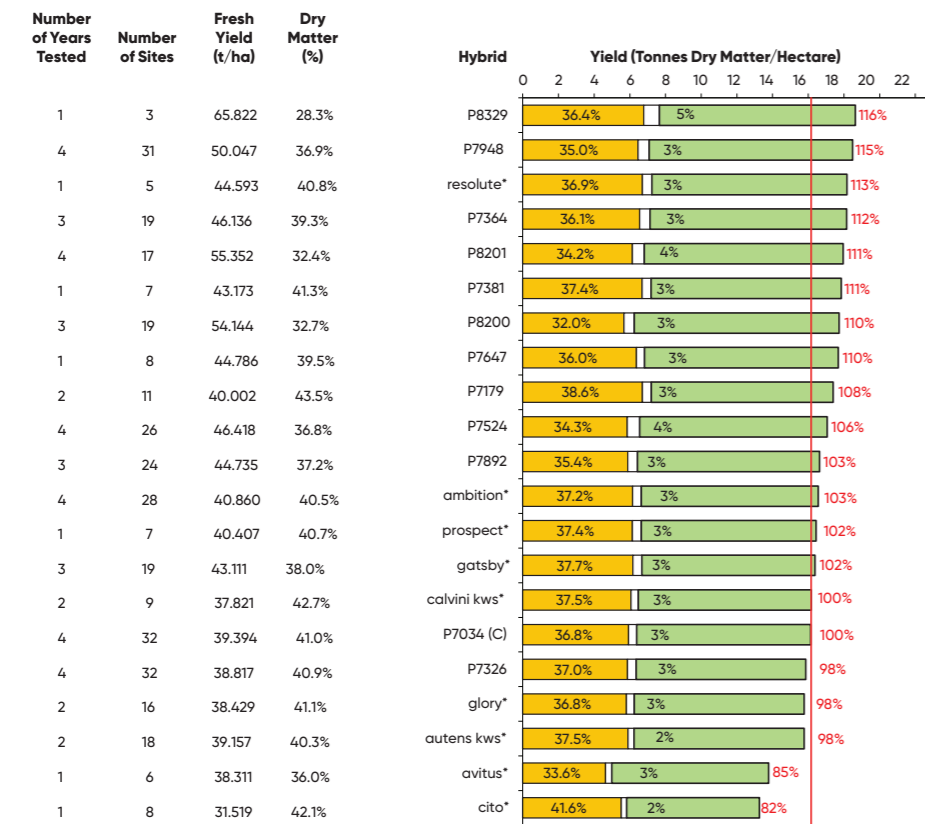
Unique fibre technology

| Product | Forage | Improvement purpose |
|----------------|--|---|
| PIONEER® 11GFT | Grass and wholecrop cereal silages | Fermentation, animal performance and fibre digestibility, aerobic stability |
| PIONEER® 11CFT | Maize silage | Fermentation, animal performance and fibre digestibility, aerobic stability |
| PIONEER® 11CH4 | A wide range of high dry matter silages | Aerobic stability and gas production |
| PIONEER® 11GH4 | High dry matter grass and cereal silages | Fermentation and aerobic stability of grass and wholecrop silages intended for gas production |

Traditional technology and with Rapid React

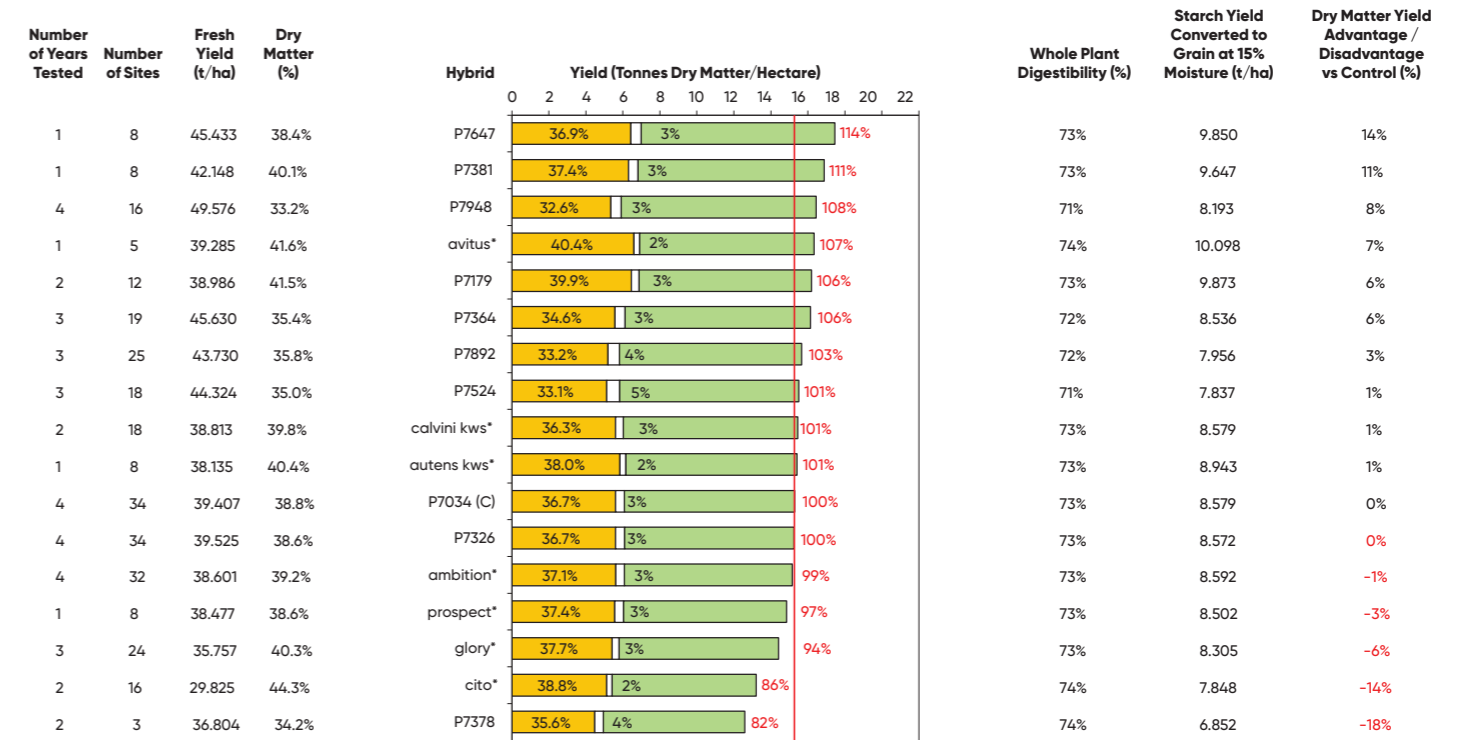
| Product | Forage | Improvement purpose |
|--|--|---|
| PIONEER® 11G22 RAPID REACT. AEROBIC STABILITY | High dry matter grass, wholecrop cereal and pea/cereal silages | Fermentation, animal performance and aerobic stability |
| PIONEER® 11C33 RAPID REACT. AEROBIC STABILITY | Maize silage | Fermentation, animal performance and aerobic stability |
| PIONEER® 11B91 RAPID REACT. AEROBIC STABILITY | Crimped maize grain | Fermentation, animal performance and aerobic stability |
| PIONEER® 11A44 RAPID REACT. AEROBIC STABILITY | A wide range of high dry matter silages | 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 |
| PIONEER® 11XH4 | A wide range of high dry matter silages | Fermentation and aerobic stability in a wide range of silages intended for gas production |

Whole plant forage, favourable sites, 2019 - 2022



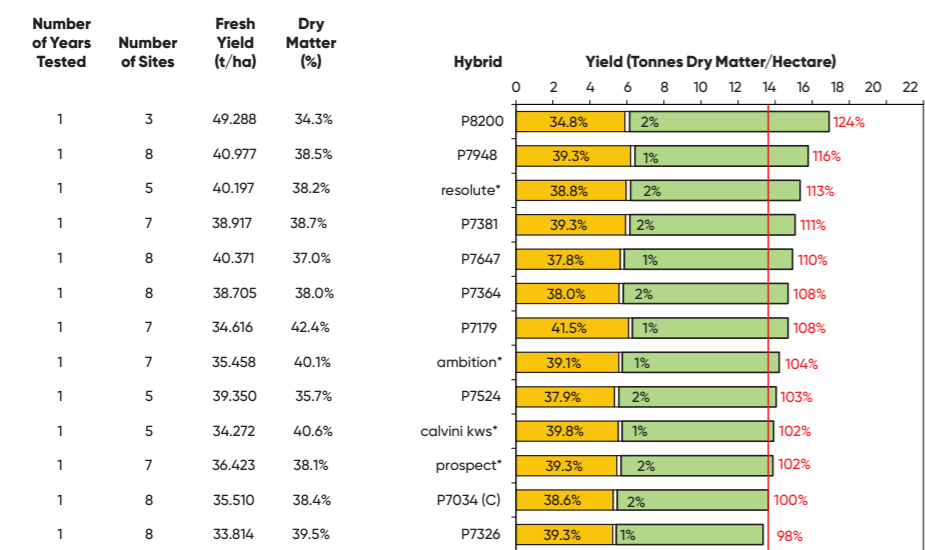
| Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) | Dry Matter Yield Advantage / Disadvantage vs Control (%) |
|-------------------------------|--|--|
| 73% | 10.371 | 16% |
| 71% | 9.883 | 15% |
| 72% | 10.255 | 13% |
| 72% | 10.013 | 12% |
| 72% | 9.388 | 11% |
| 72% | 10.222 | 11% |
| 69% | 8.685 | 10% |
| 71% | 9.734 | 10% |
| 72% | 10.263 | 8% |
| 71% | 8.955 | 6% |
| 72% | 8.995 | 3% |
| 73% | 9.420 | 3% |
| 72% | 9.403 | 2% |
| 73% | 9.437 | 2% |
| 71% | 9.275 | 0% |
| 72% | 9.075 | 0% |
| 72% | 8.979 | -2% |
| 71% | 8.877 | -2% |
| 72% | 9.031 | -2% |
| 72% | 7.090 | -15% |
| 76% | 8.439 | -18% |

Whole plant forage, less favourable sites, 2019 - 2022



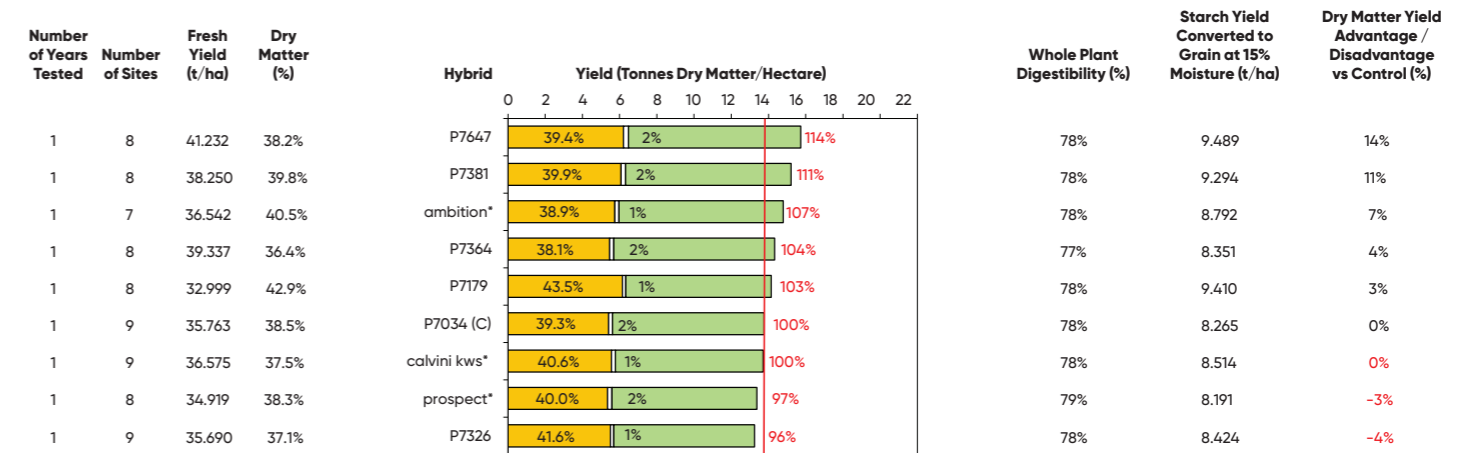
| Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) | Dry Matter Yield Advantage / Disadvantage vs Control (%) |
|-------------------------------|--|--|
| 73% | 9.850 | 14% |
| 73% | 9.647 | 11% |
| 71% | 8.193 | 8% |
| 74% | 10.098 | 7% |
| 73% | 9.873 | 6% |
| 72% | 8.536 | 6% |
| 72% | 7.956 | 3% |
| 71% | 7.837 | 1% |
| 73% | 8.579 | 1% |
| 73% | 8.943 | 1% |
| 73% | 8.579 | 0% |
| 73% | 8.572 | 0% |
| 73% | 8.592 | -1% |
| 73% | 8.502 | -3% |
| 73% | 8.305 | -6% |
| 74% | 7.848 | -14% |
| 74% | 6.852 | -18% |

Whole plant forage, favourable sites, 2022



| Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) | Dry Matter Yield Advantage / Disadvantage vs Control (%) |
|-------------------------------|--|--|
| 77% | 9.004 | 24% |
| 78% | 9.479 | 16% |
| 78% | 9.099 | 13% |
| 78% | 9.069 | 11% |
| 77% | 8.636 | 10% |
| 77% | 8.529 | 8% |
| 77% | 9.325 | 8% |
| 77% | 8.508 | 4% |
| 77% | 8.145 | 3% |
| 77% | 8.464 | 2% |
| 78% | 8.342 | 2% |
| 77% | 8.051 | 0% |
| 76% | 8.012 | -2% |

Whole plant forage, less favourable sites, 2022



| Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) | Dry Matter Yield Advantage / Disadvantage vs Control (%) |
|-------------------------------|--|--|
| 78% | 9.489 | 14% |
| 78% | 9.294 | 11% |
| 78% | 8.792 | 7% |
| 77% | 8.351 | 4% |
| 78% | 9.410 | 3% |
| 78% | 8.265 | 0% |
| 78% | 8.514 | 0% |
| 79% | 8.191 | -3% |
| 78% | 8.424 | -4% |

■ Starch Yield & %
 ■ Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Pioneer hybrids for energy production

The most appropriate maize hybrid for biogas production in any one situation depends on multiple factors. Maize hybrid selection for biogas production should always begin with a field assessment to determine appropriate

hybrid maturity. PACTS trials enable Pioneer to predict gas yields that can be achieved from different Pioneer hybrids cultivated on different sites in the open and under film.

Methane gas yield predictions from PACTS® trials

| Favourable Sites Grown In The Open 2019 - 2022 | | | | | |
|---|----------------|------------------------|--------------|----------------|------------------|
| Hybrid | Methane Yield* | | Dry Matter % | No. Yrs Tested | No. Sites Tested |
| | Litres / ha | Litres / kg Dry Matter | | | |
| P8329 | 5,986,999 | 322 | 28.3% | 1 | 3 |
| P7948 | 5,874,129 | 319 | 36.9% | 4 | 31 |
| P7364 | 5,837,739 | 322 | 39.3% | 3 | 19 |
| resolute* | 5,836,603 | 323 | 40.8% | 1 | 5 |
| P8201 | 5,742,302 | 320 | 32.4% | 4 | 17 |
| P7381 | 5,722,656 | 322 | 41.3% | 1 | 7 |
| P7647 | 5,663,066 | 321 | 39.5% | 1 | 8 |
| P7179 | 5,583,542 | 322 | 43.5% | 2 | 11 |
| P8200 | 5,529,158 | 312 | 32.7% | 3 | 19 |
| P7524 | 5,447,018 | 321 | 36.8% | 4 | 26 |
| ambition* | 5,367,961 | 324 | 40.5% | 4 | 28 |
| P7892 | 5,347,762 | 322 | 37.2% | 3 | 24 |
| gatsby* | 5,315,531 | 326 | 38.0% | 3 | 19 |
| prospect* | 5,285,070 | 323 | 40.7% | 1 | 7 |
| calvini kws* | 5,163,561 | 321 | 42.7% | 2 | 9 |
| P7034 (C) | 5,149,164 | 320 | 41.0% | 4 | 32 |
| P7326 | 5,089,318 | 322 | 40.9% | 4 | 32 |
| autens kws* | 5,070,219 | 322 | 40.3% | 2 | 18 |
| glory* | 5,048,203 | 321 | 41.1% | 2 | 16 |
| cito* | 4,463,884 | 336 | 42.1% | 1 | 8 |
| avitus* | 4,351,568 | 317 | 36.0% | 1 | 6 |



C = Control Hybrid
* = Competitor Hybrid

Methane yield figures are determined using a calculation based on the Weissbach formula. This formula predicts gas output based on the value of the key substrates in the forage prior to fermentation. The calculation of Fermentable Organic Dry Matter, or 'FoTs', is a key part of the formula and the FoTs is determined using actual yield and quality results from PACTS trials.

| Less Favourable Sites Grown In The Open 2019 - 2022 | | | | | |
|--|----------------|------------------------|--------------|----------------|------------------|
| Hybrid | Methane Yield* | | Dry Matter % | No. Yrs Tested | No. Sites Tested |
| | Litres / ha | Litres / kg Dry Matter | | | |
| P7647 | 5,701,466 | 327 | 38.4% | 1 | 8 |
| P7381 | 5,484,068 | 326 | 40.1% | 1 | 8 |
| avitus* | 5,394,901 | 328 | 41.6% | 1 | 5 |
| P7179 | 5,319,754 | 327 | 41.5% | 2 | 12 |
| P7948 | 5,308,106 | 319 | 33.2% | 4 | 16 |
| P7364 | 5,196,591 | 322 | 35.4% | 3 | 19 |
| P7892 | 5,062,804 | 323 | 35.8% | 3 | 25 |
| autens kws* | 4,999,566 | 325 | 40.4% | 1 | 8 |
| calvini kws* | 4,999,397 | 325 | 39.8% | 2 | 18 |
| P7524 | 4,967,145 | 321 | 35.0% | 3 | 18 |
| ambition* | 4,958,903 | 327 | 39.2% | 4 | 32 |
| P7326 | 4,946,157 | 324 | 38.6% | 4 | 34 |
| P7034 (C) | 4,945,200 | 325 | 38.8% | 4 | 34 |
| prospect* | 4,854,316 | 328 | 38.6% | 1 | 8 |
| glory* | 4,717,118 | 327 | 40.3% | 3 | 24 |
| cito* | 4,276,853 | 323 | 44.3% | 2 | 16 |
| P7378 | 4,229,227 | 334 | 34.2% | 2 | 3 |

| Less Favourable Sites Grown Under The Samco System 2014 - 2021 | | | | | |
|---|----------------|------------------------|--------------|----------------|------------------|
| Hybrid | Methane Yield* | | Dry Matter % | No. Yrs Tested | No. Sites Tested |
| | Litres / ha | Litres / kg Dry Matter | | | |
| P8171 | 5,582,909 | 312 | 30.4% | 6 | 12 |
| P8201 | 5,374,637 | 309 | 31.5% | 8 | 29 |
| P7948 | 5,295,479 | 314 | 34.7% | 5 | 17 |
| P8329 | 5,278,681 | 307 | 30.8% | 4 | 9 |
| P8200 (C) | 5,262,327 | 309 | 31.1% | 9 | 46 |
| P7034 | 5,044,249 | 315 | 37.3% | 6 | 23 |
| P7179 | 5,002,945 | 319 | 44.9% | 2 | 4 |
| P7378 | 4,999,750 | 320 | 37.9% | 5 | 10 |
| P7892 | 4,917,120 | 320 | 35.1% | 8 | 29 |
| P7364 | 4,894,613 | 311 | 34.7% | 2 | 7 |
| P7524 | 4,796,843 | 319 | 34.7% | 9 | 26 |
| P7326 | 4,672,784 | 318 | 38.2% | 9 | 34 |
| P7460 | 4,150,840 | 313 | 33.3% | 2 | 3 |

Grain trials, grown in the open 2017 - 2022

| Number of Years Tested | Number of Sites | Fresh Yield (t/ha) | Grain Moisture at Harvest (%) | Hybrid | Yield (Tonnes/Hectare at 15% Moisture) | | Yield Advantage / Disadvantage vs Control (%) |
|------------------------|-----------------|--------------------|-------------------------------|-----------|--|---------------------------------|---|
| | | | | | Grain Yield | Relative Yield Index (C = 100%) | |
| 2 | 5 | 12.912 | 30.7% | P7364 | 10.524 t/ha | 111% | 11% |
| 4 | 5 | 13.062 | 32.3% | P8329 | 10.396 t/ha | 110% | 10% |
| 1 | 2 | 12.162 | 27.6% | P7179 | 10.355 t/ha | 110% | 10% |
| 4 | 11 | 12.748 | 31.3% | P7948 | 10.299 t/ha | 109% | 9% |
| 6 | 12 | 11.408 | 28.9% | P7034 | 9.543 t/ha | 101% | 1% |
| 6 | 14 | 11.192 | 28.2% | P7326 (C) | 9.451 t/ha | 100% | 0% |
| 2 | 7 | 11.665 | 32.1% | P7460 | 9.324 t/ha | 99% | -1% |
| 3 | 3 | 11.318 | 30.9% | P7524 | 9.199 t/ha | 97% | -3% |
| 3 | 3 | 10.374 | 29.9% | P7892 | 8.549 t/ha | 90% | -10% |

Grain Yield, Tonnes/Hectare at 15% Moisture Relative Yield Index (C = 100%)

C = Control Hybrid

PACTS® hybrid maize agronomic descriptions for 2023

| Hybrid | Silage Maturity Description | Silage Maturity Rating Based on FAO** Scale | Stover Dry-Down Approaching Maturity | Soil Type Adaption Guide | | | Early Vigour | Lodging Resistance Rating (1-9) | Eyespot Resistance Rating (1-9) |
|-------------|-----------------------------|---|--------------------------------------|--------------------------|--------|-------|--------------|---------------------------------|---------------------------------|
| | | | | Light | Medium | Heavy | | | |
| P7179 NEW | Extra Early | 165 | Very Fast | ← | | → | Good | 7.4 | 8.0 |
| P7381 NEW* | Extra Early | 170 | Very Fast | ← | | → | Good | 7.8 | 6.0 |
| P7326 | Extra Early | 180 | Fast | ← | | → | Very Good | 8.0 | 6.2 |
| P7034 | Very Early | 185 | Moderate | ← | | → | Good | 8.0 | 5.4 |
| P7647 NEW* | Very Early | 190 | Moderate | ← | | → | Very Good | 7.6 | 4.8 |
| P7364* | Early | 195 | Fast | ← | | → | Very Good | 8.0 | 7.0 |
| P7892 | Early | 200 | Very Fast | ← | | → | Very Good | 7.9 | 6.3 |
| P7524 | Early | 200 | Moderate | ← | | → | Very Good | 8.1 | 7.6 |
| P7948 | Early | 230 | Moderate | ← | | → | Good | 8.0 | 7.8 |
| P7460 | Intermediate | 230 | Slow | ← | | → | Average | 8.0 | - |
| P8200 | Intermediate | 230 | Moderate | ← | | → | Good | 7.8 | 8.2 |
| P8201 | Intermediate | 230 | Moderate | ← | | → | Very Good | 8.0 | 6.5 |
| P8171 | Late | 250 | Slow | ← | | → | Good | 7.8 | - |
| P8329 | Late | 250 | Moderate | ← | | → | Very Good | 8.2 | - |
| DS1897B NEW | Late | 250 | Moderate | ← | | → | Good | 8.0 | - |

* Available in Ireland in 2023; due to be commercialised in UK in 2024.

** Food and Agriculture Organisation, lower rating indicates earlier maturity.

Where ratings based on a 1 - 9 scale, 9 indicates character is shown to a high degree. Some ratings based on both PACTS Trials and UK Official Trials results; - = no data available.

Growing maize under film

The Samco System provides significant quantities of extra heat during the first few weeks of growth when plant growth is usually held back by low spring temperatures. Over the course of the growing season, the System significantly increases total heat accumulation which can either bring forward the harvest date or increase yield. Different hybrids produce quite different results when planted using the Samco System. Samco and Maizetech have worked closely with Corteva for many years to understand exactly how different Pioneer branded hybrids perform when sown under different films. New hybrids and new films are continually tested together to identify the benefits of new technology.



Extensive trials and commercial experience have shown that certain maize hybrids are more suited to sowing under certain film types than others. Some are clearly unsuitable. Site heat assessments and planting date should determine the maturity of the hybrid to be sown. Other key hybrid features such as yield, starch content and standing ability should then be considered to identify the specific hybrid that should be planted. Key hybrids for sowing under film are described and are listed in order of earliness of maturity.

P7179 – Extra Early Maturity – NEW

P7179 is a new hybrid for 2023 sowing. It has been tested under film so far on 4 sites over two years and will be tested further in 2023. Initial results indicate it will produce an extremely early maturing crop with a high starch content making it most suited to the least favourable sites in the UK and Ireland, or where a very early harvest date is required. P7179 has been rated as 'very good' to penetrate film.

P7326 – Extra Early Maturity

P7326 has been tested on 34 locations over nine years under film and proven itself to be a prime choice for growers on very marginal locations where it has produced very high starch content silage with good dry matter yields for its maturity. P7326 should also be considered as an appropriate choice on other locations where the sowing date is significantly delayed.

P7034 – Very Early Maturity

P7034 has now been tested in PACTS trials under film on 23 locations over six years. Whilst it is slightly slower than P7326 to break through the film it has given good dry matter yields of a very high starch content. P7034 is also a dent grain textured hybrid and has qualified as being a Pioneer M³. M³ hybrids feature dent type grain and provide a very high level of ruminal degradable starch (>80%). P7034 should be considered by growers who may value the high rumen degradability of its starch. This can lead to better feeding results when silage is fed soon after ensiling. P7034 is suited to cultivation on marginal sites or sites where an early harvest is required.



P7364 – Very Early Maturity

P7364 was sold for the first time in Ireland in 2022 (it is only available in Ireland in 2023 again). This is a stiff strawed, early maturity, hybrid with a good dry matter yield. It dries down fast at maturity and would be a good choice on less favourable sites where a higher yield is sought or favourable sites where an early maturity is needed.

P7948 – Early Maturity

P7948 is a hybrid for favourable sites and will give a significant yield of silage at an earlier harvest date than P8200 or P8201. It has been tested on 17 locations over 5 years under film and has produced silage nearly 3.6% higher in dry matter content than P8200, but only slightly lower in terms of dry matter yield. Not suited to late sowing.

P8200 – Intermediate Maturity

P8200 has been tested in PACTS trials under the Samco System on 46 locations over the nine years. This flint grain textured hybrid has very good cold tolerance and given very consistent and reliable results across very different types of seasons and sites. This tall hybrid has given very high dry matter yields of silage with good starch content. P8200 penetrates film well, dries down rapidly at maturity and is suited to most locations when planted at the normal time.

P8201 – Intermediate Maturity

P8201 has been tested on 29 locations over eight years of PACTS trials. This is a very large stature hybrid that penetrates film extremely well and has good vigour after emergence through the film. Very high dry matter yields of good starch content have been recorded and P8201 is a hybrid to consider for growers on favourable sites wishing to maximise the dry matter yield under film. P8201 has given a useful average level of rumen degradable starch level in PACTS trials of 73.1% following tests on 9 locations over three years.

P8171 – Very Late Maturity

P8171 has been tested under film in PACTS trials for six years. It is a very late maturing hybrid with a very high dry matter yield potential. It should only be sown in the

UK and Ireland under film on the most favourable sites and where an early harvest is not required. P8171 is not suitable for late planting.

The agronomic practices required for cultivating maize under film vary significantly to those normally adopted when cultivating maize in the open. In addition to selecting a suitable hybrid it is important that appropriate advice is sought on all the other appropriate crop management techniques relevant to this method of cultivation.

"A fundamental part of the Samco System is the use of maize hybrids that we know are suited for cultivation under film" says Sam Shine of Samco. "Samco work closely with Pioneer and the PACTS Trials to identify hybrids that respond significantly to the conditions that exist under the film and then learn how to manage them in the field."

Samuel J. Shine.

For further details about the Samco System please contact Samco, Tuogh, Adare, County Limerick Tel: 00 353 (0)61 396176 Website: www.samco.ie



Strip trials, whole plant forage, 2014 – 2022



■ Starch Yield & % □ Sugar Yield & % ■ Stover Yield ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid = 100%

Selected multiple year paired comparisons

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P8201 | 8 | 29 | 31.7% | 17.064 | 102.4% | 70.1% | 31.9% | 4.2% | 11.6 | 312 | 5,327,536 | 73.9% | 4.030 |
| P8200 (C) | | | 31.4% | 16.662 | 100.0% | 69.2% | 32.0% | 3.6% | 11.5 | 312 | 5,216,210 | 70.6% | 3.763 |
| P7948 | 5 | 17 | 34.0% | 15.353 | 99.1% | 69.7% | 34.4% | 3.2% | 11.5 | 315 | 4,855,743 | 83.2% | 4.396 |
| P8200 (C) | | | 30.5% | 15.496 | 100.0% | 68.7% | 31.1% | 3.3% | 11.4 | 311 | 4,825,345 | 70.7% | 3.408 |
| P7034 | 6 | 23 | 37.0% | 15.075 | 94.7% | 71.3% | 36.3% | 2.7% | 11.8 | 320 | 4,817,552 | 80.9% | 4.432 |
| P8200 (C) | | | 30.9% | 15.919 | 100.0% | 69.8% | 31.9% | 3.5% | 11.6 | 314 | 5,025,830 | 64.7% | 3.287 |
| P7364 | 2 | 7 | 35.9% | 16.676 | 92.7% | 74.3% | 37.1% | 1.5% | 12.3 | 330 | 5,501,162 | 78.3% | 4.847 |
| P8200 (C) | | | 32.2% | 17.991 | 100.0% | 74.5% | 34.3% | 1.5% | 12.3 | 328 | 5,914,444 | 59.1% | 3.649 |
| P7179 | 2 | 4 | 46.5% | 15.431 | 92.3% | 77.7% | 45.8% | 1.4% | 12.9 | 342 | 5,276,377 | 67.4% | 4.760 |
| P8200 (C) | | | 32.2% | 16.726 | 100.0% | 75.8% | 34.5% | 1.8% | 12.5 | 332 | 5,549,935 | 63.5% | 3.666 |
| P7326 | 9 | 34 | 37.8% | 14.423 | 86.6% | 71.0% | 35.7% | 3.4% | 11.8 | 320 | 4,613,208 | 76.5% | 3.936 |
| P8200 (C) | | | 30.8% | 16.660 | 100.0% | 69.0% | 31.3% | 3.6% | 11.4 | 311 | 5,195,235 | 64.3% | 3.352 |
| P7948 | 5 | 13 | 34.7% | 15.159 | 92.6% | 69.8% | 35.1% | 3.2% | 11.6 | 316 | 4,795,879 | 88.2% | 4.692 |
| P8201 | | | 32.2% | 16.372 | 100.0% | 69.6% | 32.6% | 3.5% | 11.5 | 306 | 4,983,808 | 85.0% | 4.540 |
| P7179 | 2 | 3 | 50.0% | 14.676 | 92.6% | 77.6% | 45.4% | 1.2% | 12.9 | 342 | 5,015,713 | 69.6% | 4.638 |
| P8201 | | | 33.9% | 15.850 | 100.0% | 76.4% | 38.6% | 1.3% | 12.6 | 337 | 5,343,462 | 62.9% | 3.847 |
| P7034 | 6 | 18 | 37.1% | 14.681 | 87.8% | 71.5% | 36.6% | 2.8% | 11.8 | 321 | 4,714,559 | 82.6% | 4.444 |
| P8201 | | | 31.9% | 16.728 | 100.0% | 70.7% | 32.9% | 3.7% | 11.7 | 312 | 5,221,336 | 67.7% | 3.725 |
| P7179 | 2 | 4 | 46.5% | 15.431 | 105.1% | 77.7% | 45.8% | 1.4% | 12.9 | 342 | 5,276,377 | 67.4% | 4.760 |
| P7034 | | | 38.6% | 14.677 | 100.0% | 76.2% | 39.1% | 1.4% | 12.6 | 335 | 4,910,352 | 79.3% | 4.553 |
| P7326 | 5 | 16 | 36.9% | 13.629 | 89.3% | 70.5% | 35.4% | 3.1% | 11.7 | 319 | 4,346,565 | 76.5% | 3.691 |
| P7948 | | | 34.3% | 15.267 | 100.0% | 70.8% | 35.4% | 3.3% | 11.7 | 319 | 4,895,727 | 76.1% | 4.112 |
| P7034 | 5 | 16 | 36.7% | 15.059 | 98.6% | 70.5% | 35.9% | 2.6% | 11.7 | 318 | 4,773,150 | 80.9% | 4.367 |
| P7948 | | | 34.3% | 15.267 | 100.0% | 70.8% | 35.4% | 3.3% | 11.7 | 319 | 4,895,727 | 76.1% | 4.112 |

C = Control hybrid; * = Competitor hybrid

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P7326

Extra Early Maturity, FAO 180
Primary End Use: Forage, Biogas and Grain

P7326 was the biggest selling Pioneer maize hybrid in the UK in 2022.

PACTS results show P7326 is clearly an obvious choice for growers who are seeking a hybrid that will reach 30% dry matter quickly and produce good yields of high starch content silage. P7326 has shown a high degree of adaptation to cultivation on less favourable locations or where sowing is delayed. It is also suited to favourable locations wherever an early harvest is required. P7326 has demonstrated very good early vigour.

Hybrid Characteristics

- Proven suitability to colder sites and later sowing
- Tall hybrid for such an early maturity
- Very good early vigour
- High starch content silage with good whole plant digestibility

Grown In The Open

- On both favourable and less favourable sites
- Where early vigour and rapid early growth is important
- For production of dry grain or grain for crimping on all but marginal sites

Grown Using The Samco System

- High comparative dry matter yields on the coldest sites e.g. sites in Northern Ireland and south west Scotland
- High starch yields for this maturity
- On more favourable locations when sowing is delayed

Hybrids ranked by highest dry matter content PACTS® trials, 2019-2022

| Less Favourable Sites | | | |
|-----------------------|-----------------------------------|--------------|--------------|
| Hybrid | Dry Matter Content at Harvest (%) | No. of Years | No. of Sites |
| P7179 | 43.5 | 2 | 11 |
| calvini kws* | 42.7 | 2 | 9 |
| cito* | 42.1 | 1 | 8 |
| P7381 | 41.3 | 1 | 7 |
| glory* | 41.1 | 2 | 16 |
| P7034 (C) | 41.0 | 4 | 32 |
| P7326 | 40.9 | 4 | 32 |
| resolute* | 40.8 | 1 | 5 |
| prospect* | 40.7 | 1 | 7 |
| ambition* | 40.5 | 4 | 28 |
| autens kws* | 40.3 | 2 | 18 |
| P7647 | 39.5 | 1 | 8 |



| Hybrid Specific Agronomic Advice | | |
|---|--------------------|-------------------|
| | Grown In The Open | Samco System |
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | 6.2 | |
| Stover Dry-Down Rate | Fast | Very Fast |
| Forage Seeding Rate ² (seeds/ha) | 103,000 to 110,000 | 110,000 |
| Film Penetration Ability ³ | Not Applicable | Good ³ |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7326 selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7326 | 1 | 8 | 45.0% | 16.765 | 123.2% | 67.1% | 35.2% | 3.3% | 11.1 | 307 | 5,140,843 | 75.7% | 4.461 |
| cito kws* | | | 45.5% | 13.608 | 100.0% | 70.6% | 38.7% | 2.7% | 11.7 | 318 | 4,337,978 | 68.8% | 3.624 |
| P7326 | 4 | 22 | 39.7% | 16.352 | 100.2% | 71.4% | 36.8% | 3.7% | 11.8 | 321 | 5,259,766 | 73.8% | 4.440 |
| glory* | | | 41.2% | 16.313 | 100.0% | 71.0% | 36.0% | 3.4% | 11.8 | 320 | 5,214,006 | 64.2% | 3.769 |
| P7326 | 4 | 28 | 41.3% | 15.865 | 95.3% | 71.0% | 37.1% | 3.1% | 11.8 | 320 | 5,060,886 | 75.3% | 4.430 |
| ambition* | | | 41.0% | 16.640 | 100.0% | 72.0% | 37.3% | 3.1% | 11.9 | 323 | 5,364,639 | 67.8% | 4.208 |
| P7326 | 1 | 7 | 39.7% | 13.324 | 97.3% | 76.1% | 38.5% | 1.4% | 12.6 | 334 | 4,452,193 | - | - |
| prospect* | | | 37.8% | 13.687 | 100.0% | 77.5% | 39.0% | 1.7% | 12.8 | 339 | 4,633,927 | - | - |
| P7326 | 2 | 9 | 37.6% | 14.996 | 102.6% | 76.2% | 38.4% | 1.9% | 12.6 | 335 | 5,014,257 | 76.1% | 4.382 |
| calvini kws* | | | 38.3% | 14.610 | 100.0% | 76.0% | 38.7% | 1.4% | 12.6 | 334 | 4,875,309 | 73.7% | 4.170 |
| P7326 | 4 | 32 | 40.9% | 15.860 | 98.3% | 71.7% | 37.0% | 3.0% | 11.9 | 322 | 5,089,318 | 74.8% | 4.394 |
| P7034 (C) | | | 41.0% | 16.135 | 100.0% | 71.6% | 36.8% | 2.8% | 11.8 | 320 | 5,149,164 | 82.8% | 4.910 |
| P7179 | 2 | 11 | 40.3% | 15.475 | 106.6% | 76.5% | 40.0% | 1.6% | 12.7 | 337 | 5,215,501 | 70.0% | 4.337 |
| P7326 | | | 38.2% | 14.518 | 100.0% | 76.2% | 38.5% | 1.9% | 12.6 | 335 | 4,867,143 | 75.5% | 4.213 |

P7326 selected paired comparisons less favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7326 | 1 | 8 | 37.1% | 14.016 | 99.0% | 77.9% | 42.3% | 1.5% | 12.9 | 341 | 4,779,593 | - | - |
| prospect* | | | 38.3% | 14.160 | 100.0% | 78.5% | 41.1% | 1.6% | 13.0 | 343 | 4,858,876 | - | - |
| P7326 | 4 | 32 | 38.7% | 15.481 | 100.9% | 72.2% | 36.4% | 3.4% | 11.9 | 323 | 5,002,115 | 81.9% | 4.611 |
| ambition* | | | 39.3% | 15.340 | 100.0% | 73.1% | 37.1% | 3.2% | 12.1 | 326 | 5,007,679 | 68.9% | 3.919 |
| P7326 | 2 | 18 | 38.7% | 14.833 | 100.3% | 76.7% | 40.0% | 1.9% | 14.1 | 337 | 4,993,839 | 77.5% | 4.591 |
| calvini kws* | | | 40.5% | 14.782 | 100.0% | 76.5% | 38.4% | 1.8% | 13.4 | 336 | 4,957,401 | 63.0% | 3.572 |
| P7326 | 4 | 34 | 38.6% | 15.259 | 99.9% | 72.6% | 36.7% | 3.2% | 12.8 | 324 | 4,946,157 | 81.4% | 4.565 |
| P7034 | | | 38.8% | 15.276 | 100.0% | 72.8% | 36.7% | 3.1% | 12.1 | 325 | 4,945,200 | 87.2% | 4.890 |
| P7179 | 2 | 12 | 42.4% | 15.022 | 103.6% | 77.0% | 42.2% | 1.6% | 13.3 | 338 | 5,073,934 | 63.0% | 3.996 |
| P7326 | | | 38.7% | 14.503 | 100.0% | 76.7% | 39.3% | 1.7% | 14.8 | 337 | 4,814,314 | 79.5% | 4.538 |
| P7326 | 2 | 16 | 38.1% | 16.020 | 119.1% | 71.6% | 35.1% | 3.9% | 11.9 | 321 | 5,146,931 | 81.5% | 4.590 |
| cito kws* | | | 43.2% | 13.451 | 100.0% | 73.4% | 38.4% | 2.5% | 12.1 | 321 | 4,323,911 | 74.4% | 3.848 |
| P7524 | 3 | 18 | 34.9% | 16.122 | 102.9% | 68.1% | 31.0% | 6.1% | 11.3 | 311 | 5,002,648 | 79.1% | 3.956 |
| P7326 | | | 39.4% | 15.672 | 100.0% | 68.7% | 33.4% | 4.5% | 11.4 | 313 | 4,899,931 | 81.3% | 4.260 |

C = Control Hybrid; * = Competitor Hybrid; ** = Trade name following official registration

P7034

Very Early Maturity, FAO 185
Primary End Use: Forage, Grain and Biogas



P7034 is a very early maturity hybrid with a dent grain texture. Dent grain hybrids provide high levels of rumen degradable starch. Pioneer classifies P7034 as an M³ hybrid. M³ hybrids are those that combine a very high level of rumen degradable starch with a high starch content, stable yield and superior agronomic performance.

P7034 is a unique Pioneer hybrid as it is well adapted to the maritime climate in the UK and Ireland despite being dent grain textured. It is the first Pioneer hybrid with this earliness of maturity that also has highly rumen degradable dent type starch.

P7034 flowers early and produces silage with a very high starch content and starch yield. Its dent type starch degrades at a significantly faster rate in the rumen than the flint type starch found in the flint grain textured type hybrids that are normally grown in the UK. This is especially the case just after ensiling before silage acids and enzymes have been able to degrade the protein that protects the starch granules in flint type hybrids.

Where possible, crops of P7034 should be clamped last and fed first. This approach is likely to aid the feeding transition from old to new crop maize silage and it fully exploits the starch degradability benefit of P7034. The

starch rumen degradability advantage of dent types, compared to flint types, will lessen as silage ages, but it is likely to always exist to a certain degree.

P7034 is an ideal partner hybrid to Pioneer hybrids such as P7326 and P7179 which have similar maturity and good cold tolerance, but lower levels of rumen degradable starch. Clamping P7326 or P7179 first, and P7034 last will enable the best possible sequence for maximising starch degradability when feeding out silage.

Hybrid Characteristics

- Dent grain texture with fast ruminal starch degradability
- Very high whole plant digestibility
- Very high starch content
- Early flowering

Grown In The Open

- Widely adapted to all but the coldest maize growing areas of the UK and well adapted to the typical maize growing areas in Ireland
- Ensile last and feed first

Grown Using The Samco System

- Responds positively to the early heat generated under film
- Produces silage of a very high starch content and a very high starch yield
- P7034 can be grown under film on favourable and less favourable sites; on less favourable sites it should be sown in the normal planting window

Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|--------------------|----------------------|
| Early Vigour | Good | Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | 5.4 | |
| Stover Dry-Down Rate | Fast | Very Fast |
| Forage Seeding Rate ² (seeds/ha) | 103,000 to 110,000 | 110,000 |
| Film Penetration Ability ³ | Not Applicable | Average ³ |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7034

versus other selected hybrids tested for rumen degradable starch



PACTS® Sites 2019–2022

| Hybrid | Dry Matter Content (%) | Starch Content (%) | Relative Dry Matter Yield Index (C = 100%) | Rumen Degradable Starch Analyses | | | |
|--------------|------------------------|--------------------|--|----------------------------------|--------------|--|---|
| | | | | Sites Tested | Years Tested | Pioneer Relative Rumen Degradable Starch Content (%) | Pioneer Relative Rumen Degradable Starch Yield; Tonnes Dry Matter / Hectare |
| P7034 (C) | 39.8% | 36.7% | 100.0% | 50 | 4 | 80.1% | 4.619 |
| P7326 | 39.7% | 36.9% | 99.1% | 42 | 3 | 73.9% | 4.240 |
| P8329 | 27.5% | 36.3% | 115.5% | 3 | 1 | 73.9% | 4.870 |
| resolute* | 39.5% | 37.1% | 111.1% | 5 | 1 | 73.4% | 4.746 |
| P7948 | 35.3% | 34.1% | 112.2% | 31 | 3 | 73.2% | 4.396 |
| P8201 | 31.6% | 34.2% | 111.3% | 9 | 3 | 73.1% | 4.360 |
| P7381 | 40.7% | 37.4% | 110.6% | 10 | 1 | 72.6% | 4.708 |
| P7524 | 35.8% | 33.8% | 104.0% | 24 | 3 | 72.0% | 3.972 |
| P7364 | 37.3% | 35.3% | 109.1% | 32 | 3 | 71.8% | 4.339 |
| prospect* | 39.6% | 37.4% | 99.3% | 11 | 1 | 71.6% | 4.177 |
| P7892 | 36.5% | 34.3% | 102.8% | 43 | 3 | 70.3% | 3.887 |
| P7179 | 42.5% | 39.3% | 106.9% | 18 | 2 | 68.2% | 4.491 |
| cito* | 43.8% | 39.7% | 85.0% | 20 | 2 | 66.8% | 3.543 |
| calvini kws* | 41.1% | 36.7% | 100.8% | 13 | 1 | 66.8% | 3.878 |
| P7647 | 38.9% | 36.4% | 112.0% | 11 | 1 | 66.2% | 4.243 |
| gatsby* | 37.1% | 38.1% | 101.7% | 18 | 3 | 65.8% | 4.003 |
| glory* | 40.8% | 37.3% | 95.8% | 34 | 3 | 64.6% | 3.621 |
| ambition* | 39.9% | 37.1% | 100.8% | 38 | 3 | 64.1% | 3.767 |
| autens kws* | 39.8% | 37.6% | 98.6% | 20 | 2 | 60.9% | 3.543 |
| avitus* | 38.4% | 36.9% | 95.0% | 9 | 1 | 60.3% | 3.318 |
| P8200 | 31.8% | 32.0% | 109.9% | 3 | 1 | 59.3% | 3.273 |



P7034

selected paired comparisons favourable sites



| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7034 | 1 | 7 | 38.1% | 13.436 | 98.2% | 77.1% | 38.3% | 1.6% | 12.8 | 336 | 4,514,765 | 67.2% | 3.461 |
| prospect* | | | 37.8% | 13.687 | 100.0% | 77.5% | 39.0% | 1.7% | 12.8 | 339 | 4,633,927 | 63.5% | 3.386 |
| P7034 | 4 | 28 | 41.4% | 16.208 | 97.4% | 71.0% | 36.9% | 3.0% | 11.8 | 319 | 5,145,977 | 83.8% | 5.012 |
| ambition* | | | 41.0% | 16.640 | 100.0% | 72.0% | 37.3% | 3.1% | 11.9 | 323 | 5,364,639 | 68.1% | 4.228 |
| P7034 | 2 | 9 | 36.7% | 14.590 | 99.9% | 76.2% | 37.9% | 1.5% | 12.6 | 334 | 4,861,716 | 80.9% | 4.476 |
| calvini kws* | | | 38.3% | 14.610 | 100.0% | 76.0% | 38.7% | 1.4% | 12.6 | 334 | 4,875,309 | 73.7% | 4.170 |
| P7034 | 4 | 32 | 41.0% | 16.135 | 100.0% | 71.6% | 36.8% | 2.8% | 11.8 | 320 | 5,149,164 | 82.8% | 4.910 |
| P7326 | | | 40.9% | 15.860 | 98.3% | 71.7% | 37.0% | 3.0% | 11.9 | 322 | 5,089,318 | 74.8% | 4.394 |
| P7034 | 2 | 11 | 38.0% | 14.358 | 92.8% | 76.5% | 38.2% | 1.6% | 12.7 | 335 | 4,809,756 | 72.2% | 3.954 |
| P7179 | | | 40.3% | 15.475 | 100.0% | 76.5% | 40.0% | 1.6% | 12.7 | 337 | 5,215,501 | 62.3% | 3.862 |
| P7034 | 3 | 22 | 40.4% | 16.788 | 102.9% | 72.3% | 37.2% | 3.4% | 12.0 | 323 | 5,417,502 | 81.9% | 5.119 |
| glory* | | | 41.2% | 16.313 | 100.0% | 71.0% | 36.0% | 3.4% | 11.8 | 320 | 5,214,006 | 64.2% | 3.769 |
| P7034 | 1 | 8 | 44.3% | 16.544 | 121.6% | 66.3% | 34.3% | 3.2% | 11.0 | 303 | 5,003,930 | 85.2% | 4.831 |
| cito kws* | | | 45.5% | 13.608 | 100.0% | 70.6% | 38.7% | 2.7% | 11.7 | 318 | 4,337,978 | 69.0% | 3.636 |

P7034

selected paired comparisons less favourable sites



| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7034 | 1 | 8 | 38.5% | 14.570 | 102.9% | 77.8% | 40.3% | 1.5% | 12.9 | 340 | 4,949,845 | 63.2% | 3.712 |
| prospect* | | | 38.3% | 14.160 | 100.0% | 78.5% | 41.1% | 1.6% | 13.0 | 343 | 4,858,876 | 53.7% | 3.128 |
| P7034 | 4 | 32 | 38.8% | 15.467 | 100.8% | 72.4% | 36.7% | 3.2% | 12.0 | 324 | 4,993,841 | 86.7% | 4.923 |
| ambition* | | | 39.3% | 15.340 | 100.0% | 73.1% | 37.1% | 3.2% | 12.1 | 326 | 5,007,679 | 68.3% | 3.887 |
| P7034 | 2 | 18 | 39.4% | 14.611 | 98.8% | 76.6% | 38.8% | 2.0% | 12.7 | 336 | 4,903,660 | 78.6% | 4.458 |
| calvini kws* | | | 40.5% | 14.782 | 100.0% | 76.5% | 38.4% | 1.8% | 13.4 | 336 | 4,957,401 | 63.1% | 3.579 |
| P7034 | 4 | 34 | 38.8% | 15.276 | 100.1% | 72.8% | 36.7% | 3.1% | 12.1 | 325 | 4,945,200 | 87.2% | 4.890 |
| P7326 | | | 38.6% | 15.259 | 100.0% | 72.6% | 36.7% | 3.2% | 12.8 | 324 | 4,946,157 | 81.4% | 4.565 |
| P7034 | 4 | 30 | 39.6% | 15.824 | 107.2% | 71.4% | 36.3% | 3.5% | 11.8 | 320 | 5,063,858 | 86.9% | 4.995 |
| glory* | | | 40.8% | 14.764 | 100.0% | 71.2% | 36.2% | 2.9% | 11.8 | 320 | 4,735,823 | 67.5% | 3.605 |
| P7034 | 2 | 16 | 37.8% | 15.557 | 115.7% | 72.1% | 36.3% | 3.6% | 11.9 | 322 | 4,999,612 | 85.1% | 4.805 |
| cito kws* | | | 43.2% | 13.451 | 100.0% | 73.4% | 38.4% | 2.5% | 12.1 | 321 | 4,323,911 | 71.1% | 3.674 |

* = Competitor Hybrid



P7034

For high production livestock farmers. First very early maturity M³ Pioneer hybrid with dent like grain texture.

P7179

NEW

**Extra Early Maturity, FAO 165
Primary End Use: Forage,
Grain and Biogas**

P7179 is a new hybrid for 2023 sowing in both the UK and Ireland. In PACTS trials it has shown itself to now be the earliest maturity hybrid in the Pioneer range. It has given an average dry matter content of 43.5% in favourable PACTS trials over two years and 11 locations. On less favourable sites, P7179 has given an average dry matter content of 41.5% over 12 locations and two years of testing.

In addition to its earliness of maturity it has given very high starch contents. On favourable PACTS locations it has given an average starch content 38.6% and on less favourable locations 39.9%.

Absolute grain and starch yields are very high even though P7179 is of an extra early maturity. On favourable sites over 11 locations and 2 years of PACTS testing it gave a starch yield equivalent to a grain yield of 10.263 tonnes per hectare. On less favourable sites over 12 locations and two years of tests it gave 9.873 tonnes per hectare.

On all PACTS sites tested, P7179 has given a Pioneer rumen degradable starch measurement of 68.2% – a relatively low level to be expected with its flint type grain texture. Therefore, consider ensiling fields of P7179 first and then fields sown to hybrids with higher rumen degradable starch, such as the M³ hybrid

P7034 or P7326. This will allow the rumen degradable starch content of P7179 to increase over time in the clamp whilst another higher rumen degradable starch hybrid is fed out first.

If a very early maturity hybrid is required for the generation of biogas, P7179 is ideally suited.

Hybrid Characteristics

- Extra early maturity on both favourable and less favourable sites
- Tall hybrid for this maturity
- Produces very high starch content silage
- High grain yields and has potential for combining
- Early flowering
- Very good eyespot resistance
- Flint grain texture so lower levels of rumen degradable starch

Grown In The Open

- Adapted to all maize growing sites in the UK and Ireland
- Wide planting window due to its earliness of maturity
- Timely harvesting will minimise yield loss associated with over maturity

Grown Using The Samco System

- Extremely early maturity
- Very high starch content
- High grain yields



| Hybrid Specific Agronomic Advice | | |
|---|-------------------|------------------------|
| | Grown In The Open | Samco System |
| Early Vigour | Good | Very Good |
| Lodging Resistance ¹ | 7.4 | |
| Eyespot Resistance Score ¹ | 8.0 | |
| Stover Dry-Down Rate | Very Fast | Extremely Fast |
| Forage Seeding Rate ² (seeds/ha) | 103,000 – 110,000 | |
| Film Penetration Ability ³ | Not Applicable | Very Good ³ |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7179

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7179 | 1 | 6 | 41.8% | 14.943 | 102.7% | 76.9% | 40.7% | 1.5% | 12.7 | 337 | 5,042,794 | 56.1% | 3.411 |
| prospect* | | | 38.8% | 14.546 | 100.0% | 77.4% | 38.4% | 1.8% | 12.8 | 338 | 4,918,916 | 63.5% | 3.548 |
| P7179 | 2 | 8 | 41.8% | 15.303 | 102.9% | 76.7% | 40.8% | 1.6% | 12.7 | 337 | 5,163,170 | 72.8% | 4.544 |
| ambition* | | | 39.9% | 14.878 | 100.0% | 76.9% | 39.3% | 1.6% | 12.7 | 337 | 5,030,575 | 72.8% | 4.254 |
| P7179 | 1 | 5 | 39.2% | 15.679 | 95.8% | 77.6% | 42.4% | 1.5% | 12.8 | 339 | 5,319,070 | 56.1% | 3.735 |
| resolute* | | | 36.0% | 16.367 | 100.0% | 78.1% | 39.7% | 1.6% | 12.9 | 340 | 5,551,606 | 61.6% | 3.997 |
| P7179 | 2 | 8 | 37.9% | 15.626 | 109.1% | 76.5% | 40.5% | 1.6% | 12.7 | 337 | 5,258,095 | 73.1% | 4.628 |
| calvini kws* | | | 37.8% | 14.327 | 100.0% | 76.2% | 39.1% | 1.4% | 12.6 | 335 | 4,793,599 | 73.6% | 4.120 |
| P7179 | 2 | 11 | 40.3% | 15.475 | 106.8% | 76.5% | 40.0% | 1.6% | 12.7 | 337 | 5,215,501 | 62.3% | 3.862 |
| P7034 | | | 38.4% | 14.493 | 100.0% | 76.5% | 38.2% | 1.6% | 12.7 | 335 | 4,809,756 | 72.2% | 3.992 |
| P7179 | 1 | 6 | 39.8% | 15.756 | 100.0% | 77.9% | 42.8% | 1.5% | 12.9 | 341 | 5,368,892 | 55.2% | 3.727 |
| P7381 | | | 36.4% | 16.060 | 101.9% | 78.4% | 41.0% | 1.4% | 13.0 | 342 | 5,480,248 | 58.1% | 3.823 |
| P7179 | 2 | 11 | 40.3% | 15.475 | 100.0% | 76.5% | 40.0% | 1.6% | 12.7 | 337 | 5,215,501 | 62.3% | 3.862 |
| P7364 | | | 36.3% | 15.644 | 101.1% | 76.1% | 36.9% | 2.2% | 12.6 | 335 | 5,241,990 | 65.7% | 3.789 |

P7179

selected paired comparisons less favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7179 | 1 | 7 | 42.8% | 14.548 | 104.4% | 78.0% | 43.0% | 1.4% | 12.9 | 341 | 4,959,623 | 53.9% | 3.369 |
| prospect* | | | 38.5% | 13.930 | 100.0% | 78.5% | 40.7% | 1.7% | 13.0 | 343 | 4,776,350 | 51.4% | 2.911 |
| P7179 | 2 | 11 | 42.4% | 15.667 | 99.8% | 77.0% | 42.2% | 1.6% | 12.7 | 338 | 5,289,109 | 63.0% | 4.162 |
| ambition* | | | 41.6% | 15.695 | 100.0% | 77.2% | 40.1% | 1.7% | 12.8 | 338 | 5,165,916 | 61.9% | 3.897 |
| P7179 | 2 | 12 | 42.4% | 15.022 | 104.7% | 77.0% | 42.2% | 1.6% | 13.3 | 338 | 5,073,934 | 63.0% | 3.996 |
| calvini kws* | | | 40.2% | 14.343 | 100.0% | 76.9% | 39.3% | 1.6% | 13.8 | 337 | 4,849,168 | 61.8% | 3.483 |
| P7179 | 2 | 12 | 42.4% | 15.022 | 106.0% | 77.0% | 42.2% | 1.6% | 13.3 | 338 | 5,073,934 | 58.4% | 3.707 |
| P7034 | | | 39.6% | 14.173 | 100.0% | 76.8% | 38.9% | 1.8% | 12.7 | 336 | 4,716,687 | 69.9% | 3.852 |
| P7179 | 2 | 12 | 42.4% | 15.022 | 103.6% | 77.0% | 42.2% | 1.6% | 13.3 | 338 | 5,073,934 | 63.0% | 3.996 |
| P7326 | | | 38.7% | 14.503 | 100.0% | 76.7% | 39.3% | 1.7% | 14.8 | 337 | 4,814,314 | 79.5% | 4.538 |
| P7179 | 1 | 7 | 42.8% | 14.548 | 100.0% | 78.0% | 43.0% | 1.4% | 12.9 | 341 | 4,959,623 | 53.9% | 3.369 |
| P7381 | | | 39.8% | 15.464 | 106.3% | 77.8% | 40.5% | 1.5% | 12.9 | 341 | 5,258,666 | 60.3% | 3.775 |
| P7179 | 2 | 11 | 42.4% | 15.667 | 100.0% | 77.0% | 42.2% | 1.6% | 12.7 | 338 | 5,289,109 | 58.4% | 3.861 |
| P7364 | | | 36.7% | 16.011 | 102.2% | 75.9% | 37.8% | 1.8% | 12.6 | 334 | 5,284,674 | 63.7% | 3.859 |

C = Control Hybrid; * = Competitor Hybrid

P7948

Early Maturity, FAO 230

Primary End Use: Forage, Biogas and Grain

P7948 is a multi-purpose hybrid that has given high yields of high-quality forage suitable for livestock and biogas production, along with high yields of grain when combined. It is suitable for sowing on favourable sites in the open, and favourable locations under film providing it is sown within the normal planting period.

P7948 has been tested on 31 favourable forage PACTS sites sown in the open over four years and has given exceptional yields for its maturity. The dry matter yield of P7948 measured over this period was 15% higher than the Control hybrid P7034 with a dry matter content which was 4.1% lower.

P7948 combines very good standing power with very good resistance to eyespot and its plant stature is particularly large when grown in the open. P7948 has been tested under film on 17 sites over five years and it has given a high silage yield, only 1% below P8200, but with a dry matter content which was 3.6% higher.

P7948 holds second place in PACTS trials for predicted total gas production on favourable sites in the open combined with a high dry matter content of 36.9%.

Hybrid Characteristics

- Large stature hybrid
- Very good standing ability
- Very good resistance to eyespot and fusarium

Grown In The Open

- P7948 is suitable for cultivation on favourable sites

Grown Using The Samco System

- P7948 can be sown on favourable sites providing it is sown in the normal planting period
- P7948 can be sown on less favourable sites in more southerly counties in the UK and Ireland but not when sowing late

Hybrids ranked by highest dry matter Samco PACTS® sites, 2014-2022

| Less Favourable Sites | | | |
|-----------------------|-----------------------------------|--------------|--------------|
| Hybrid | Dry Matter Content at Harvest (%) | No. of Years | No. of Sites |
| P7179 | 44.9 | 2 | 4 |
| P7034 | 37.3 | 6 | 23 |
| P7948 | 34.7 | 5 | 17 |
| P8201 | 31.5 | 8 | 29 |
| P8200 (C) | 31.1 | 9 | 46 |
| P8171 | 30.4 | 6 | 12 |



| Hybrid Specific Agronomic Advice | | |
|---|-------------------|--------------|
| | Grown In The Open | Samco System |
| Early Vigour | Good | Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | 7.8 | |
| Stover Dry-Down Rate | Moderate | Good |
| Forage Seeding Rate ² (seeds/ha) | 98,000 to 103,000 | 103,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7948

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7948 | 4 | 27 | 37.4% | 18.905 | 113.2% | 70.8% | 35.1% | 3.4% | 11.7 | 317 | 5,978,478 | 75.8% | 5.033 |
| ambition* | | | 41.0% | 16.696 | 100.0% | 72.1% | 37.3% | 3.0% | 11.9 | 323 | 5,383,848 | 66.1% | 4.116 |
| P7948 | 1 | 5 | 36.7% | 18.067 | 110.4% | 78.2% | 41.4% | 1.5% | 13.0 | 340 | 6,141,117 | - | - |
| resolute* | | | 36.0% | 16.367 | 100.0% | 78.1% | 39.7% | 1.6% | 12.9 | 340 | 5,551,606 | - | - |
| P7948 | 4 | 25 | 36.6% | 18.316 | 100.0% | 71.2% | 35.0% | 3.5% | 11.8 | 319 | 5,779,945 | 73.7% | 4.717 |
| P7524 | | | 37.0% | 17.139 | 93.6% | 71.2% | 34.6% | 4.2% | 11.8 | 320 | 5,473,024 | 73.5% | 4.353 |
| P7948 | 4 | 17 | 37.7% | 20.118 | 100.0% | 68.8% | 34.0% | 4.1% | 11.4 | 311 | 6,246,582 | 73.9% | 5.059 |
| P8201 | | | 33.9% | 19.410 | 96.5% | 68.9% | 33.4% | 4.6% | 11.4 | 312 | 6,071,306 | 76.8% | 4.980 |
| P7948 | 3 | 23 | 36.3% | 19.466 | 100.0% | 69.3% | 33.4% | 4.0% | 11.5 | 313 | 6,073,236 | 74.4% | 4.843 |
| P7892 | | | 38.0% | 17.624 | 90.5% | 70.2% | 34.9% | 3.8% | 11.6 | 316 | 5,579,850 | 71.5% | 4.392 |
| P7948 | 3 | 19 | 38.4% | 19.821 | 100.0% | 69.4% | 35.2% | 3.8% | 11.5 | 313 | 6,191,044 | 74.5% | 5.195 |
| P8200 | | | 34.3% | 18.827 | 95.0% | 67.1% | 31.6% | 3.8% | 11.1 | 305 | 5,752,673 | 65.7% | 3.908 |
| P7948 | 3 | 19 | 35.7% | 17.523 | 100.0% | 73.5% | 35.6% | 2.7% | 12.2 | 326 | 5,683,890 | 73.3% | 4.579 |
| P7364 | | | 37.6% | 17.072 | 97.4% | 73.1% | 35.4% | 2.2% | 12.1 | 325 | 5,530,172 | 68.1% | 4.116 |
| P7948 | 3 | 19 | 36.9% | 19.931 | 100.0% | 69.0% | 33.4% | 4.0% | 11.4 | 311 | 6,198,964 | 74.9% | 4.987 |
| gatsby* | | | 39.1% | 17.572 | 88.2% | 70.6% | 36.4% | 3.5% | 11.7 | 318 | 5,579,920 | 67.2% | 4.295 |

P7948

selected paired comparisons Samco System sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7948 | 5 | 17 | 34.0% | 15.353 | 99.1% | 69.7% | 34.4% | 3.2% | 11.5 | 315 | 4,855,743 | 83.2% | 4.396 |
| P8200 (C) | | | 30.5% | 15.496 | 100.0% | 68.7% | 31.1% | 3.3% | 11.4 | 311 | 4,825,345 | 70.7% | 3.408 |
| P7948 | 5 | 13 | 34.7% | 15.159 | 92.6% | 69.8% | 35.1% | 3.2% | 11.6 | 316 | 4,795,879 | 88.2% | 4.692 |
| P8201 | | | 32.2% | 16.372 | 100.0% | 69.6% | 32.6% | 3.5% | 11.5 | 306 | 4,983,808 | 85.0% | 4.540 |
| P7948 | 5 | 7 | 34.9% | 14.920 | 100.0% | 69.7% | 33.9% | 3.3% | 11.5 | 315 | 4,687,908 | 88.2% | 4.465 |
| P8171 | | | 30.9% | 16.488 | 110.5% | 70.8% | 34.5% | 2.8% | 11.7 | 319 | 5,242,250 | 89.1% | 5.070 |
| P7948 | 5 | 16 | 34.3% | 15.267 | 101.4% | 70.8% | 35.4% | 3.3% | 11.7 | 319 | 4,895,727 | 76.1% | 4.112 |
| P7034 | | | 36.7% | 15.059 | 100.0% | 70.5% | 35.9% | 2.6% | 11.7 | 318 | 4,773,150 | 80.9% | 4.367 |
| P7948 | 5 | 10 | 35.5% | 15.723 | 100.0% | 71.8% | 37.1% | 2.7% | 11.9 | 322 | 5,074,580 | 73.1% | 4.263 |
| P7524 | | | 35.4% | 14.386 | 91.5% | 71.3% | 35.4% | 3.7% | 11.8 | 322 | 4,639,044 | 72.9% | 3.708 |
| P7948 | 5 | 12 | 34.5% | 15.770 | 100.0% | 70.2% | 36.1% | 3.3% | 11.6 | 318 | 5,034,356 | - | - |
| P7892 | | | 34.6% | 14.609 | 92.6% | 69.8% | 34.2% | 4.0% | 11.6 | 317 | 4,636,242 | - | - |
| P7948 | 2 | 5 | 33.5% | 17.042 | 100.0% | 75.8% | 39.8% | 1.5% | 12.5 | 335 | 5,714,895 | 73.1% | 4.961 |
| P7364 | | | 33.0% | 15.530 | 91.1% | 73.6% | 36.1% | 1.6% | 12.2 | 328 | 5,085,849 | 73.8% | 4.131 |
| P7948 | 5 | 16 | 34.3% | 15.267 | 100.0% | 70.8% | 35.4% | 3.3% | 11.7 | 319 | 4,895,727 | 76.1% | 4.112 |
| P7326 | | | 36.9% | 13.629 | 89.3% | 70.5% | 35.4% | 3.1% | 11.7 | 319 | 4,346,565 | 76.5% | 3.691 |

C = Control Hybrid; * = Competitor Hybrid

P7892

Early Maturity, FAO 200

Primary End Use: Forage and Biogas

P7892 is a very early maturity and well proven hybrid. It has shown consistency of performance across many different types of locations. P7892 has very good early vigour and no major agronomic weaknesses. Growers planting in the open and looking for high yields with good reliability often choose P7892. Those growing under film in cold locations, or planting late, have also found it to be a successful choice.

Hybrid Characteristics

- Large stature hybrid
- Very good early vigour
- Very fast stover dry down at maturity

Grown In The Open

- Suitable for favourable sites or less favourable sites with light soil

Grown Using The Samco System

- In the least favourable locations, e.g. Northern Ireland, South West Scotland and West Wales, providing it is planted during the normal sowing period
- On other warmer sites when planting is delayed



| Hybrid Specific Agronomic Advice | | |
|---|-------------------|--------------|
| | Grown In The Open | Samco System |
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | | 7.9 |
| Eyespot Resistance Score ¹ | | 6.3 |
| Stover Dry-Down Rate | Very Fast | Very Fast |
| Forage Seeding Rate ² (seeds/ha) | 103,000 - 110,000 | 110,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7892

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7892 | 4 | 28 | 38.6% | 17.322 | 102.1% | 70.0% | 34.8% | 3.9% | 11.6 | 316 | 5,467,802 | 72.5% | 4.366 |
| ambition* | | | 40.9% | 16.971 | 100.0% | 70.9% | 36.6% | 3.6% | 11.7 | 319 | 5,408,728 | 65.4% | 4.062 |
| P7892 | 3 | 19 | 38.2% | 17.762 | 101.1% | 69.8% | 34.7% | 3.8% | 11.6 | 315 | 5,599,740 | 72.6% | 4.473 |
| gatsby* | | | 39.1% | 17.572 | 100.0% | 70.6% | 36.4% | 3.5% | 11.7 | 318 | 5,579,920 | 66.1% | 4.229 |
| P7892 | 4 | 30 | 38.1% | 17.245 | 100.0% | 70.3% | 34.6% | 3.9% | 11.6 | 316 | 5,458,174 | 72.3% | 4.313 |
| P7326 | | | 41.1% | 16.436 | 95.3% | 70.3% | 36.4% | 3.6% | 11.6 | 317 | 5,212,120 | 74.4% | 4.446 |
| P7892 | 4 | 30 | 38.1% | 17.245 | 103.1% | 70.3% | 34.6% | 3.9% | 11.6 | 316 | 5,458,174 | 72.5% | 4.323 |
| P7034 | | | 41.4% | 16.731 | 100.0% | 70.7% | 36.4% | 3.4% | 11.7 | 318 | 5,304,586 | 82.7% | 5.044 |
| P7892 | 4 | 24 | 38.3% | 17.607 | 90.8% | 70.2% | 35.0% | 3.8% | 11.6 | 317 | 5,573,547 | 71.8% | 4.426 |
| P7948 | | | 36.8% | 19.397 | 100.0% | 69.2% | 33.4% | 3.9% | 11.5 | 312 | 6,045,837 | 74.7% | 4.840 |



P7524

Early Maturity, FAO 200
Primary End Use: Forage and Biogas

P7524 is a striking early maturity hybrid which combines very good early vigour with a tall growth habit. P7524 has given very high dry matter yields of good starch content and has proven to be an enduringly popular choice.



P7524 will suit growers seeking to produce a large quantity of early to mature silage, and also those aiming to maximise biogas production. P7524 has a notably good level of resistance to Eyespot (*Aureobasibium zeae*).

Hybrid Characteristics

- Tall, large stature
- Very good early vigour
- Good comparative resistance to Eyespot (*Aureobasibium zeae*)

Grown In The Open

- On good to favourable sites where higher dry matter yields are sought

Grown Using The Samco System

- On less favourable sites in the UK
- On good sites in southern and midland counties of Ireland, along with favourable, sheltered sites in more northerly counties

Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|------------------|
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 8.1 | |
| Eyespot Resistance Score ¹ | 7.6 | |
| Stover Dry-Down Rate | Moderate | Fast |
| Forage Seeding Rate ² (seeds/ha) | 93,000 – 103,000 | 98,000 – 103,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7524 selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7524 | 4 | 23 | 37.5% | 17.527 | 104.5% | 70.5% | 34.8% | 4.4% | 11.7 | 318 | 5,570,624 | 73.8% | 4.496 |
| ambition* | | | 41.1% | 16.765 | 100.0% | 71.8% | 37.6% | 3.2% | 11.9 | 322 | 5,397,077 | 68.0% | 4.284 |
| P7524 | 3 | 17 | 37.9% | 18.200 | 104.0% | 68.9% | 33.1% | 5.0% | 11.4 | 313 | 5,702,650 | 74.9% | 4.510 |
| gatsby* | | | 39.2% | 17.504 | 100.0% | 70.6% | 36.5% | 3.7% | 11.7 | 318 | 5,562,478 | 65.2% | 4.168 |
| P7524 | 1 | 3 | 36.0% | 15.417 | 103.2% | 78.3% | 39.7% | 1.7% | 13.0 | 342 | 5,285,797 | - | - |
| resolute* | | | 35.7% | 14.945 | 100.0% | 78.9% | 40.5% | 1.7% | 13.1 | 343 | 5,117,656 | - | - |
| P7524 | 4 | 25 | 37.0% | 17.139 | 93.57% | 71.2% | 34.6% | 4.2% | 11.8 | 320 | 5,473,024 | 73.5% | 4.353 |
| P7948 | | | 36.6% | 18.316 | 100.00% | 71.2% | 35.0% | 3.5% | 11.8 | 319 | 5,779,945 | 73.7% | 4.717 |

* = Competitor Hybrid

P8200

Intermediate Maturity, FAO 230
Primary End Use: Forage and Biogas

P8200 is a tall, large stature, intermediate maturity hybrid ideally suited to cultivation on a wide range of sites under film. It is also suitable for sowing on favourable sites in the open.

P8200 has given very high dry matter yields of silage with good starch content. A key feature of P8200 is that the stover dries down quickly once it reaches physiological maturity. P8200 has shown notable performance consistency in the UK and Ireland over the last 5 years.

Hybrid Characteristics

- Tall, large stature hybrid
- Has proven ability to deliver high dry matter forage yields
- Often double cobs when grown under film

Grown In The Open

- On favourable locations

Grown Using The Samco System

- On all but the least favourable sites in UK and Ireland
- Switch to an earlier hybrid if planting is delayed past second week in May

Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|------------------|
| Early Vigour | Good | Good |
| Lodging Resistance ¹ | 7.8 | |
| Eyespot Resistance Score ¹ | 8.2 | |
| Stover Dry-Down Rate | Moderate | Fast |
| Forage Seeding Rate ² (seeds/ha) | 98,000 | 98,000 – 103,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8200 selected paired comparisons Samco System sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-----------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P8200 | 8 | 29 | 31.4% | 16.662 | 100.0% | 69.2% | 32.0% | 3.6% | 11.5 | 312 | 5,216,210 | 70.6% | 3.763 |
| P8201 | | | 31.7% | 17.064 | 102.4% | 70.1% | 31.9% | 4.2% | 11.6 | 312 | 5,327,536 | 73.9% | 4.030 |
| P8200 (C) | 5 | 17 | 30.5% | 15.496 | 100.0% | 68.7% | 31.1% | 3.3% | 11.4 | 311 | 4,825,345 | 70.7% | 3.408 |
| P7948 | | | 34.0% | 15.353 | 99.1% | 69.7% | 34.4% | 3.2% | 11.5 | 315 | 4,855,743 | 83.2% | 4.396 |
| P8200 (C) | 9 | 26 | 31.1% | 16.867 | 100.0% | 68.2% | 30.8% | 3.5% | 11.3 | 308 | 5,188,142 | 60.2% | 3.130 |
| P7524 | | | 34.7% | 14.875 | 88.2% | 70.4% | 33.2% | 4.8% | 11.7 | 318 | 4,729,220 | 72.9% | 3.595 |
| P8200 (C) | 9 | 29 | 30.5% | 16.615 | 100.0% | 67.1% | 29.8% | 3.4% | 11.1 | 304 | 5,056,768 | - | - |
| P7892 | | | 34.3% | 14.966 | 90.1% | 69.9% | 32.4% | 4.3% | 11.6 | 315 | 4,725,046 | - | - |
| P8200 (C) | 2 | 7 | 32.2% | 17.991 | 100.0% | 74.5% | 34.3% | 1.5% | 12.3 | 328 | 5,914,444 | 59.1% | 3.649 |
| P7364 | | | 35.9% | 16.676 | 92.7% | 74.3% | 37.1% | 1.5% | 12.3 | 330 | 5,501,162 | 78.3% | 4.847 |
| P8200 (C) | 6 | 12 | 31.9% | 16.136 | 100.0% | 70.3% | 33.3% | 3.8% | 11.6 | 316 | 5,100,862 | 70.6% | 3.793 |
| P8171 | | | 31.1% | 17.007 | 105.4% | 70.7% | 33.5% | 3.6% | 11.7 | 319 | 5,411,607 | 75.5% | 4.307 |

C = Control Hybrid

P8201

Intermediate Maturity, FAO 230
Primary End Use: Forage and Biogas

P8201 has given extremely high dry matter yields when grown under film on good to favourable sites in the UK and Ireland. It has also given very high yields when grown on the most favourable sites in the open in England. This very tall, large stature hybrid produces silage of a good starch content by virtue of its deep kernels. P8201 has a grain texture that provides a useful level of rumen degradable starch, measured at 73.1% in open PACTS trials. P8201 penetrates film easily.

Hybrid Characteristics

- Very tall, large stature, forage hybrid
- Very good early vigour and good standing power
- Very high dry matter yields, good starch contents for such a yield

Grown In The Open

- On the most favourable sites in the UK and Ireland

Grown Using The Samco System

- Suitable for good to favourable locations under film
- Plant in the normal sowing period

Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|------------------|
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | 6.5 | |
| Stover Dry-Down Rate | Moderate | Fast |
| Forage Seeding Rate ² (seeds/ha) | 98,000 | 98,000 – 103,000 |
| Film Penetration Ability ³ | Not Applicable | Very Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8201 selected paired comparisons Samco System sites

| No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) | |
|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|-------|
| P8201 | 5 | 13 | 32.2% | 16.372 | 100.0% | 69.6% | 32.6% | 3.5% | 11.5 | 306 | 4,983,808 | 85.0% | 4.540 |
| P7948 | | | 34.7% | 15.159 | 92.6% | 69.8% | 35.1% | 3.2% | 11.6 | 316 | 4,795,879 | 88.2% | 4.692 |
| P8201 | 6 | 11 | 32.6% | 17.130 | 100.0% | 70.8% | 33.5% | 4.0% | 11.7 | 319 | 5,461,864 | 73.9% | 4.246 |
| P8171 | | | 31.2% | 17.294 | 101.0% | 70.8% | 33.6% | 3.7% | 11.7 | 319 | 5,510,296 | 75.5% | 4.389 |
| P8201 | 2 | 5 | 33.1% | 18.475 | 100.0% | 75.3% | 37.8% | 1.3% | 12.5 | 308 | 5,664,857 | 59.6% | 4.156 |
| P7364 | | | 38.3% | 17.277 | 93.5% | 74.9% | 38.4% | 1.3% | 12.4 | 332 | 5,724,953 | 82.8% | 5.496 |
| P8201 | 8 | 15 | 32.9% | 16.676 | 100.0% | 71.6% | 34.0% | 3.6% | 11.9 | 321 | 5,357,392 | - | - |
| P7524 | | | 35.3% | 14.521 | 87.1% | 71.9% | 34.5% | 4.3% | 11.9 | 323 | 4,690,140 | - | - |
| P8201 | 8 | 19 | 31.5% | 16.809 | 100.0% | 68.9% | 30.9% | 4.0% | 11.4 | 306 | 5,142,829 | - | - |
| P7892 | | | 34.2% | 15.261 | 90.8% | 70.4% | 33.0% | 4.2% | 11.7 | 317 | 4,852,188 | - | - |
| P8201 | 6 | 18 | 31.9% | 16.728 | 100.0% | 70.7% | 32.9% | 3.7% | 11.7 | 312 | 5,221,336 | 67.7% | 3.725 |
| P7034 | | | 37.1% | 14.681 | 87.8% | 71.5% | 36.6% | 2.8% | 11.8 | 321 | 4,714,559 | 82.6% | 4.444 |

P8201 selected paired comparisons all sites

| No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) | |
|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|-------|
| P8201 | 3 | 16 | 34.3% | 19.371 | 100.0% | 68.6% | 33.5% | 4.7% | 11.4 | 311 | 6,041,790 | 76.0% | 4.935 |
| P8200 | | | 34.3% | 18.927 | 97.7% | 65.3% | 30.7% | 4.3% | 10.8 | 300 | 5,682,829 | 65.7% | 3.825 |
| P8201 | 4 | 17 | 33.9% | 19.410 | 100.0% | 68.9% | 33.4% | 4.6% | 11.4 | 312 | 6,071,306 | 76.8% | 4.980 |
| P7948 | | | 37.7% | 20.118 | 103.7% | 68.8% | 34.0% | 4.1% | 11.4 | 311 | 6,246,582 | 73.9% | 5.059 |
| P8201 | 4 | 17 | 33.9% | 19.410 | 100.0% | 68.9% | 33.4% | 4.6% | 11.4 | 312 | 6,071,306 | 76.8% | 4.980 |
| P7524 | | | 39.1% | 18.497 | 95.3% | 67.8% | 33.1% | 5.5% | 11.2 | 310 | 5,739,052 | 75.7% | 4.643 |
| P8201 | 3 | 6 | 31.3% | 19.202 | 100.0% | 70.8% | 32.9% | 4.5% | 11.7 | 317 | 6,094,460 | 74.0% | 4.671 |
| P7364 | | | 36.9% | 19.011 | 99.0% | 68.9% | 32.4% | 3.0% | 11.4 | 312 | 5,941,035 | 65.1% | 4.011 |



P8201

Very high dry matter yields, good starch content and rumen degradability. For very favourable sites or planting using the Samco System.

P8171

Very Late Maturity, FAO 250

Primary End Use: Forage and Biogas

P8171 is a very late maturing hybrid with a very high yield potential. P8171 should be grown only under the most favourable sites in the open in the UK and where an early harvest is not required. P8171 can be grown under film on favourable sites in the UK and the most favourable sites in Ireland.

Hybrid Characteristics

- Very tall, large stature forage hybrid
- Very high dry matter yields

Grown In The Open

- Only on the most favourable sites in the UK

Grown Using The Samco System

- Suitable for favourable locations in the UK
- Suitable for the most favourable locations in Ireland
- Not suitable for late sowing

Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|--------------|
| Early Vigour | Good | Good |
| Lodging Resistance ¹ | 7.8 | |
| Eyespot Resistance Score ¹ | Not Available | |
| Stover Dry-Down Rate | Slow | Moderate |
| Forage Seeding Rate ² (seeds/ha) | 98,000 | 98,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8171 selected paired comparisons Samco System sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|-------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P8171 | 6 | 12 | 31.1% | 17.007 | 105.4% | 70.7% | 33.5% | 3.6% | 11.7 | 319 | 5,411,607 | 75.5% | 4.307 |
| P8200 | | | 31.9% | 16.136 | 100.0% | 70.3% | 33.3% | 3.8% | 11.6 | 316 | 5,100,862 | 70.6% | 3.793 |
| P8171 | 6 | 11 | 31.2% | 17.294 | 101.0% | 70.8% | 33.6% | 3.7% | 11.7 | 319 | 5,510,296 | 75.5% | 4.389 |
| P8201 | | | 32.6% | 17.130 | 100.0% | 70.8% | 33.5% | 4.0% | 11.7 | 319 | 5,461,864 | 73.9% | 4.246 |
| P8171 | 6 | 10 | 31.4% | 16.853 | 112.7% | 71.9% | 34.7% | 3.5% | 11.9 | 323 | 5,436,876 | 68.4% | 3.998 |
| P7034 | | | 38.5% | 14.951 | 100.0% | 73.4% | 38.8% | 3.4% | 12.1 | 327 | 4,881,142 | 82.6% | 4.791 |
| P8171 | 5 | 7 | 30.9% | 16.488 | 110.5% | 70.8% | 34.5% | 2.8% | 11.7 | 319 | 5,242,250 | 89.1% | 5.070 |
| P7948 | | | 34.9% | 14.920 | 100.0% | 69.7% | 33.9% | 3.3% | 11.5 | 315 | 4,687,908 | 88.2% | 4.465 |



P8171

Big yielding for the most favourable locations in the open when grown under film.

P7381†

NEW

Very Early Maturity, FAO 170

Primary End Use: Forage and Biogas

P7381 is a new extra early maturity hybrid and one of several new Pioneer hybrids that promise to raise the yields achieved from hybrids of this maturity.

P7381 is an impressive flint dent grain textured hybrid that has given very high yields in its first year of PACTS open trials in 2022. P7381 combines good ratings for early vigour, standing power and eyespot resistance to provide growers with the promise of reliable field performance.

P7381 gave starch yields in favourable PACTS trials equivalent to over 10 tonnes per hectare of grain, and over 9.5 tonnes per hectare on less favourable sites. On both favourable and less favourable PACTS sites its average starch content was a 'lofty' 37.4%.

Hybrid Characteristics

- Very high dry matter yields for this maturity
- Very high starch yields for this maturity
- Good early vigour
- Very fast stover dry down at maturity

Grown In The Open

- On favourable and less favourable sites
- Where higher yields are sought without delaying harvest date

Grown Using The Samco System

- On favourable sites where early maturity and high starch content is sought
- On less favourable sites where an early harvest and high starch content is required



Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|--------------|
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 7.9 | |
| Eyespot Resistance Score ¹ | 6.3 | |
| Stover Dry-Down Rate | Very Fast | Very Fast |
| Forage Seeding Rate ² (seeds/ha) | 103,000 - 110,000 | 110,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

† Commercially available in Ireland 2023. Commercial availability in UK due 2024

P7381

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7381 | 1 | 6 | 37.9% | 16.513 | 116.7% | 77.7% | 40.8% | 1.5% | 12.9 | 339 | 5,602,604 | 58.7% | 3,954 |
| prospect* | | | 37.2% | 14.152 | 100.0% | 77.9% | 40.2% | 1.6% | 12.9 | 340 | 4,804,148 | 60.1% | 3,421 |
| P7381 | 1 | 6 | 37.9% | 16.513 | 112.3% | 77.7% | 40.8% | 1.5% | 12.9 | 339 | 5,602,604 | - | - |
| ambition* | | | 39.5% | 14.706 | 100.0% | 77.8% | 40.9% | 1.4% | 12.9 | 340 | 5,005,823 | - | - |
| P7381 | 1 | 5 | 36.2% | 17.312 | 105.8% | 78.2% | 41.4% | 1.4% | 12.9 | 341 | 5,893,594 | 58.7% | 4,201 |
| resolute* | | | 36.0% | 16.367 | 100.0% | 78.1% | 39.7% | 1.6% | 12.9 | 340 | 5,551,606 | 61.7% | 4,004 |
| P7381 | 1 | 5 | 36.2% | 17.312 | 116.6% | 78.2% | 41.4% | 1.4% | 12.9 | 341 | 5,893,594 | - | - |
| calvini kws* | | | 38.3% | 14.843 | 100.0% | 77.3% | 40.7% | 1.4% | 12.8 | 339 | 5,017,184 | - | - |
| P7381 | 1 | 6 | 36.4% | 16.060 | 101.9% | 78.4% | 41.0% | 1.4% | 13.0 | 342 | 5,480,248 | 58.1% | 3,823 |
| P7179 | | | 39.8% | 15.756 | 100.0% | 77.9% | 42.8% | 1.5% | 12.9 | 341 | 5,368,892 | 55.2% | 3,727 |

P7381

selected paired comparisons less favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7381 | 1 | 8 | 39.8% | 16.103 | 113.7% | 77.9% | 41.0% | 1.5% | 12.9 | 341 | 5,489,219 | 61.2% | 4,044 |
| prospect* | | | 38.3% | 14.160 | 100.0% | 78.5% | 41.1% | 1.6% | 13.0 | 343 | 4,858,876 | 55.1% | 3,209 |
| P7381 | 1 | 7 | 39.8% | 15.464 | 101.3% | 77.8% | 40.5% | 1.5% | 12.9 | 341 | 5,258,666 | - | - |
| ambition* | | | 40.4% | 15.268 | 100.0% | 77.6% | 39.5% | 1.4% | 12.9 | 340 | 5,188,975 | - | - |
| P7381 | 1 | 8 | 39.8% | 16.103 | 111.0% | 77.9% | 41.0% | 1.5% | 12.9 | 341 | 5,489,219 | - | - |
| calvini kws* | | | 37.8% | 14.506 | 100.0% | 77.6% | 40.5% | 1.5% | 12.8 | 340 | 4,925,142 | - | - |
| P7381 | 1 | 7 | 39.8% | 15.464 | 106.3% | 77.8% | 40.5% | 1.5% | 12.9 | 341 | 5,258,666 | 60.3% | 3,775 |
| P7179 | | | 42.8% | 14.548 | 100.0% | 78.0% | 43.0% | 1.4% | 12.9 | 341 | 4,959,623 | 53.9% | 3,369 |

* = Competitor Hybrid

P7364†

Very Early Maturity, FAO 195

Primary End Use: Forage and Biogas

P7364 is a tall, very early maturity, hybrid with very good early vigour and very good standing ability. P7364 has flint textured grain.

In PACTS trials sown in the open, P7364 has given very high dry matter yields of good starch content silage. P7364 is suited to sowing on favourable and less favourable open sites sown at the normal time.

P7364 is a good choice for planting under film in less favourable sites and exposed locations where a high dry matter yield is sought.

Hybrid Characteristics

- Very good early vigour
- Tall and fast to dry down at maturity
- High dry matter yield for this maturity

Grown In The Open

- On favourable locations and less favourable sites planted at the normal time
- Where a high dry matter yield is sought

Grown Using The Samco System

- On less favourable and exposed sites in UK and Ireland
- Where a high dry matter yield is sought even though the site is not favourable



| Hybrid Specific Agronomic Advice | | |
|---|-------------------|------------------|
| | Grown In The Open | Samco System |
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | 7.0 | |
| Stover Dry-Down Rate | Fast | Fast |
| Forage Seeding Rate ² (seeds/ha) | 93,000 - 103,000 | 98,000 - 103,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7364

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7364 | 1 | 7 | 38.1% | 14.711 | 107.5% | 76.3% | 37.2% | 1.6% | 12.6 | 334 | 4,934,273 | 62.1% | 3.402 |
| prospect* | | | 37.8% | 13.687 | 100.0% | 77.5% | 39.0% | 1.7% | 12.8 | 339 | 4,633,927 | 63.5% | 3.386 |
| P7364 | 3 | 15 | 38.2% | 17.188 | 108.2% | 72.5% | 35.5% | 2.1% | 12.0 | 323 | 5,537,035 | 71.6% | 4.372 |
| ambition* | | | 40.0% | 15.893 | 100.0% | 73.7% | 38.0% | 2.0% | 12.2 | 328 | 5,204,126 | 67.8% | 4.093 |
| P7364 | 1 | 5 | 35.6% | 16.348 | 99.9% | 77.1% | 39.5% | 1.5% | 12.8 | 338 | 5,517,578 | 62.1% | 4.016 |
| resolute* | | | 36.0% | 16.367 | 100.0% | 78.1% | 39.7% | 1.6% | 12.9 | 340 | 5,551,606 | 61.6% | 3.997 |
| P7364 | 2 | 26 | 36.0% | 16.322 | 108.8% | 75.9% | 37.4% | 2.0% | 12.6 | 334 | 5,446,808 | 69.8% | 4.259 |
| calvini kws* | | | 39.9% | 15.009 | 100.0% | 76.2% | 38.4% | 1.7% | 12.6 | 335 | 5,022,138 | 66.2% | 3.811 |
| P7364 | 2 | 11 | 36.3% | 15.644 | 101.1% | 76.1% | 36.9% | 2.2% | 12.6 | 335 | 5,241,990 | 65.7% | 3.789 |
| P7179 | | | 40.3% | 15.475 | 100.0% | 76.5% | 40.0% | 1.6% | 12.7 | 337 | 5,215,501 | 62.3% | 3.862 |

P7364

selected paired comparisons less favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7364 | 1 | 8 | 36.5% | 15.171 | 107.1% | 77.3% | 39.1% | 1.5% | 12.8 | 339 | 5,140,245 | 57.7% | 3.423 |
| prospect* | | | 38.3% | 14.160 | 100.0% | 78.5% | 41.1% | 1.6% | 13.0 | 343 | 4,858,876 | 53.7% | 3.128 |
| P7364 | 3 | 18 | 36.2% | 16.069 | 104.5% | 74.8% | 36.3% | 2.6% | 12.4 | 331 | 5,307,044 | 69.1% | 4.031 |
| ambition* | | | 40.2% | 15.375 | 100.0% | 75.9% | 38.8% | 2.2% | 12.6 | 334 | 5,139,097 | 64.3% | 3.833 |
| P7364 | 2 | 17 | 36.1% | 16.217 | 106.6% | 75.9% | 37.5% | 1.9% | 12.6 | 334 | 5,416,475 | 70.0% | 4.262 |
| calvini kws* | | | 40.8% | 15.219 | 100.0% | 76.3% | 38.2% | 1.8% | 12.6 | 335 | 5,099,871 | 62.8% | 3.651 |
| P7364 | 2 | 11 | 36.7% | 16.011 | 102.2% | 75.9% | 37.8% | 1.8% | 12.6 | 334 | 5,284,674 | 63.7% | 3.859 |
| P7179 | | | 42.4% | 15.667 | 100.0% | 77.0% | 42.2% | 1.6% | 12.7 | 338 | 5,289,109 | 58.4% | 3.861 |

* = Competitor Hybrid

† Commercially available in Ireland 2023. Commercial availability in UK due 2024

P7647†

NEW FOR 2024

Very Early Maturity, FAO 190
Primary End Use: Forage and Biogas

P7647 is a new very early maturity hybrid due to be commercialised in the UK and Ireland in 2024.

Hybrid Characteristics

- Impressive stature and ear development
- Delivers higher dry matter and grain yields on favourable sites and less favourable sites sown in the normal planting window

Grown In The Open

- On favourable sites and sheltered less favourable sites
- Where a similar maturity hybrid is being successfully grown but a higher yield is sought

Grown Using The Samco System

- Testing in progress
- Promises a higher yield of dry matter and starch than the similar maturity hybrids P7524 and P7892



| Hybrid Specific Agronomic Advice | | |
|---|-------------------|--------------|
| | Grown In The Open | Samco System |
| Early Vigour | Very Good | Very Good |
| Lodging Resistance ¹ | 7.6 | |
| Eyespot Resistance Score ¹ | 4.8 | |
| Stover Dry-Down Rate | Moderate | Moderate |
| Forage Seeding Rate ² (seeds/ha) | 103,000 – 110,000 | |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 – 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7647

selected paired comparisons favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7647 | 1 | 7 | 37.3% | 15.224 | 111.2% | 77.1% | 36.9% | 1.4% | 12.8 | 337 | 5,140,177 | 55.2% | 3.101 |
| prospect* | | | 37.8% | 13.687 | 100.0% | 77.5% | 39.0% | 1.7% | 12.8 | 339 | 4,633,927 | 63.5% | 3.386 |
| P7647 | 1 | 7 | 37.3% | 15.224 | 108.6% | 77.1% | 36.9% | 1.4% | 12.8 | 337 | 5,140,177 | - | - |
| ambition* | | | 39.8% | 14.013 | 100.0% | 76.9% | 38.8% | 1.4% | 12.7 | 337 | 4,739,505 | - | - |
| P7647 | 1 | 5 | 35.7% | 16.950 | 103.6% | 77.8% | 39.3% | 1.3% | 12.9 | 339 | 5,745,360 | 55.2% | 3.675 |
| resolute* | | | 36.0% | 16.367 | 100.0% | 78.1% | 39.7% | 1.6% | 12.9 | 340 | 5,551,606 | 61.6% | 3.997 |
| P7647 | 1 | 5 | 35.7% | 16.950 | 114.2% | 77.8% | 39.3% | 1.3% | 12.9 | 339 | 5,745,360 | - | - |
| calvini kws* | | | 38.3% | 14.843 | 100.0% | 77.3% | 40.7% | 1.4% | 12.8 | 339 | 5,017,184 | - | - |
| P7647 | 1 | 7 | 36.6% | 15.321 | 101.4% | 77.2% | 37.6% | 1.5% | 12.8 | 338 | 5,182,023 | 55.2% | 3.176 |
| P7179 | | | 41.9% | 15.114 | 100.0% | 77.3% | 41.2% | 1.4% | 12.8 | 339 | 5,124,967 | 57.2% | 3.567 |

P7647

selected paired comparisons less favourable sites

| | No. Years Tested | No. Sites | Dry Matter (%) | Yield (Tonnes Dry Matter/ha) | Yield Index (%) | Wholeplant Organic Matter Digestibility (%) | Starch (%) | Sugar (%) | Megajoules Metabolisable Energy /Kg Dry Matter | Calculated Methane Production (litres/kg Dry Matter) | Calculated Methane Production (l/ha) | Pioneer Rumen Degradable Starch (%) | Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) |
|--------------|------------------|-----------|----------------|------------------------------|-----------------|---|------------|-----------|--|--|--------------------------------------|-------------------------------------|--|
| P7647 | 1 | 8 | 38.2% | 16.652 | 117.6% | 78.4% | 40.5% | 1.6% | 13.0 | 342 | 5,706,821 | 51.7% | 3.489 |
| prospect* | | | 38.3% | 14.160 | 100.0% | 78.5% | 41.1% | 1.6% | 13.0 | 343 | 4,858,876 | 50.5% | 2.939 |
| P7647 | 1 | 7 | 38.7% | 16.405 | 107.5% | 78.3% | 39.8% | 1.6% | 13.0 | 342 | 5,614,740 | - | - |
| ambition* | | | 40.4% | 15.268 | 100.0% | 77.6% | 39.5% | 1.4% | 12.9 | 340 | 5,188,975 | - | - |
| P7647 | 1 | 1 | 34.5% | 18.380 | 102.5% | 78.8% | 45.8% | 1.2% | 13.0 | 346 | 6,351,389 | - | - |
| resolute* | | | 38.2% | 17.930 | 100.0% | 78.8% | 44.6% | 1.2% | 13.0 | 345 | 6,186,029 | - | - |
| P7647 | 1 | 8 | 38.2% | 16.652 | 114.8% | 78.4% | 40.5% | 1.6% | 13.0 | 342 | 5,706,821 | - | - |
| calvini kws* | | | 37.8% | 14.506 | 100.0% | 77.6% | 40.5% | 1.5% | 12.8 | 340 | 4,925,142 | - | - |
| P7647 | 1 | 7 | 38.7% | 16.405 | 112.8% | 78.3% | 39.8% | 1.6% | 13.0 | 342 | 5,614,740 | 53.9% | 3.515 |
| P7179 | | | 42.8% | 14.548 | 100.0% | 78.0% | 43.0% | 1.4% | 12.9 | 341 | 4,959,623 | 53.9% | 3.369 |

* = Competitor Hybrid

† Commercial availability in both UK and Ireland due 2024

DS1897B

NEW

Late Maturity, FAO 250

Primary End Use: Forage and Biogas

DS1897B is a tall, late maturing very high yielding flint grain textured hybrid. As a late maturing hybrid it is suited to favourable sites where a high dry matter yield is sought. DS1897B has good standing power and an impressive plant stature.

Hybrid Characteristics

- Large stature hybrid capable of producing very high dry matter yields
- Good early vigour and standing ability

Grown In The Open

- On favourable sites in the south of England

Grown Using The Samco System

- On favourable sites in England
- On the most favourable sites in southern Ireland



Hybrid Specific Agronomic Advice

| | Grown In The Open | Samco System |
|---|-------------------|------------------|
| Early Vigour | Good | Good |
| Lodging Resistance ¹ | 8.0 | |
| Eyespot Resistance Score ¹ | - | |
| Stover Dry-Down Rate | Moderate | Moderate |
| Forage Seeding Rate ² (seeds/ha) | 93,000 - 103,000 | 93,000 - 103,000 |
| Film Penetration Ability ³ | Not Applicable | Good |

¹ Score on a 1 - 9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

Keith Blenkiron, North Yorkshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 56.048 | 32.1% | P7381 | 34% Starch, 1% Sugar, 130% Stover | 76% | 9.465 |
| 51.097 | 32.9% | P7276 | 34% Starch, 1% Sugar, 121% Stover | 77% | 8.764 |
| 55.032 | 28.0% | P7364 | 35% Starch, 1% Sugar, 111% Stover | 76% | 8.177 |
| 48.906 | 30.7% | calvini kws* | 39% Starch, 1% Sugar, 108% Stover | 77% | 8.985 |
| 48.611 | 30.8% | P7326 | 40% Starch, 1% Sugar, 108% Stover | 77% | 9.181 |
| 44.509 | 33.4% | ambition* | 38% Starch, 1% Sugar, 107% Stover | 76% | 8.531 |
| 45.615 | 32.0% | P7179 | 43% Starch, 1% Sugar, 105% Stover | 77% | 9.607 |
| 46.822 | 30.7% | P7647 | 33% Starch, 1% Sugar, 104% Stover | 77% | 7.196 |
| 48.000 | 28.9% | P7034 (C) | 35% Starch, 1% Sugar, 100% Stover | 75% | 7.373 |
| 45.231 | 30.0% | prospect* | 37% Starch, 1% Sugar, 98% Stover | 77% | 7.610 |

Clayton Farm Partnership, Cheshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 34.623 | 46.5% | P7647 | 44% Starch, 2% Sugar, 119% Stover | 79% | 10.867 |
| 30.128 | 48.4% | ambition* | 42% Starch, 1% Sugar, 107% Stover | 79% | 9.292 |
| 27.473 | 52.2% | P7381 | 44% Starch, 1% Sugar, 106% Stover | 79% | 9.681 |
| 28.109 | 50.5% | P7326 | 43% Starch, 1% Sugar, 105% Stover | 78% | 9.375 |
| 26.771 | 50.7% | P7034 (C) | 43% Starch, 2% Sugar, 100% Stover | 78% | 8.894 |
| 29.461 | 45.2% | P7364 | 42% Starch, 2% Sugar, 98% Stover | 78% | 8.518 |
| 23.484 | 55.9% | P7179 | 41% Starch, 1% Sugar, 97% Stover | 77% | 8.182 |
| 25.902 | 49.3% | calvini kws* | 40% Starch, 2% Sugar, 94% Stover | 76% | 7.874 |
| 27.292 | 46.7% | P7276 | 45% Starch, 3% Sugar, 94% Stover | 77% | 8.748 |
| 26.539 | 46.3% | prospect* | 45% Starch, 2% Sugar, 91% Stover | 78% | 8.420 |

Graham Shepherd, North Yorkshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 45.991 | 35.7% | P7179 | 43% Starch, 2% Sugar, 128% Stover | 79% | 10.706 |
| 50.184 | 32.5% | P7381 | 40% Starch, 3% Sugar, 127% Stover | 79% | 9.988 |
| 46.571 | 32.4% | P7276 | 37% Starch, 4% Sugar, 117% Stover | 78% | 8.644 |
| 42.309 | 35.5% | prospect* | 38% Starch, 3% Sugar, 117% Stover | 79% | 8.783 |
| 50.328 | 29.6% | P7647 | 38% Starch, 3% Sugar, 116% Stover | 77% | 8.610 |
| 43.732 | 33.9% | ambition* | 38% Starch, 2% Sugar, 115% Stover | 77% | 8.592 |
| 43.669 | 32.1% | P7326 | 40% Starch, 2% Sugar, 109% Stover | 77% | 8.667 |
| 43.101 | 32.1% | calvini kws* | 40% Starch, 2% Sugar, 108% Stover | 78% | 8.410 |
| 49.464 | 27.9% | P7364 | 36% Starch, 2% Sugar, 107% Stover | 76% | 7.616 |
| 43.159 | 29.8% | P7034 (C) | 38% Starch, 2% Sugar, 100% Stover | 78% | 7.504 |

Severn Trent, Nottinghamshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|-----------|-----------------------------------|-------------------------------|--|
| 34.700 | 36.7% | P8171 | 29% Starch, 3% Sugar, 121% Stover | 75% | 5.578 |
| 25.650 | 46.9% | P7948 | 26% Starch, 2% Sugar, 114% Stover | 72% | 4.871 |
| 20.663 | 54.5% | P7179 | 32% Starch, 1% Sugar, 107% Stover | 73% | 5.480 |
| 22.547 | 49.2% | P7276 | 35% Starch, 1% Sugar, 105% Stover | 75% | 5.974 |
| 26.078 | 41.8% | prospect* | 32% Starch, 2% Sugar, 103% Stover | 76% | 5.281 |
| 23.750 | 44.5% | P7034 (C) | 30% Starch, 2% Sugar, 100% Stover | 74% | 4.876 |
| 20.136 | 50.9% | P7326 | 28% Starch, 2% Sugar, 97% Stover | 72% | 4.317 |
| 23.750 | 41.5% | ambition* | 26% Starch, 1% Sugar, 93% Stover | 72% | 3.988 |
| 22.449 | 42.7% | P7647 | 22% Starch, 2% Sugar, 91% Stover | 73% | 3.278 |
| 19.257 | 48.1% | P7364 | 24% Starch, 2% Sugar, 88% Stover | 72% | 3.439 |

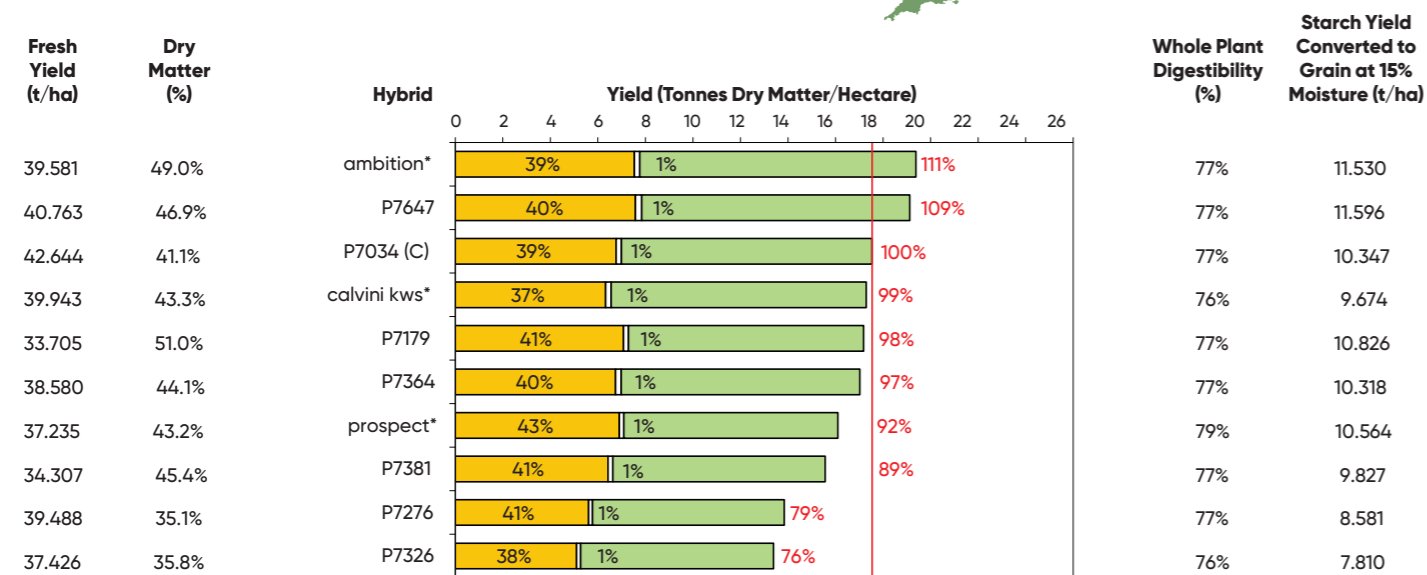
■ Starch Yield & % ■ Sugar Yield & % ■ Stover Yield ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid; ** = Hybrid trade name following official registration

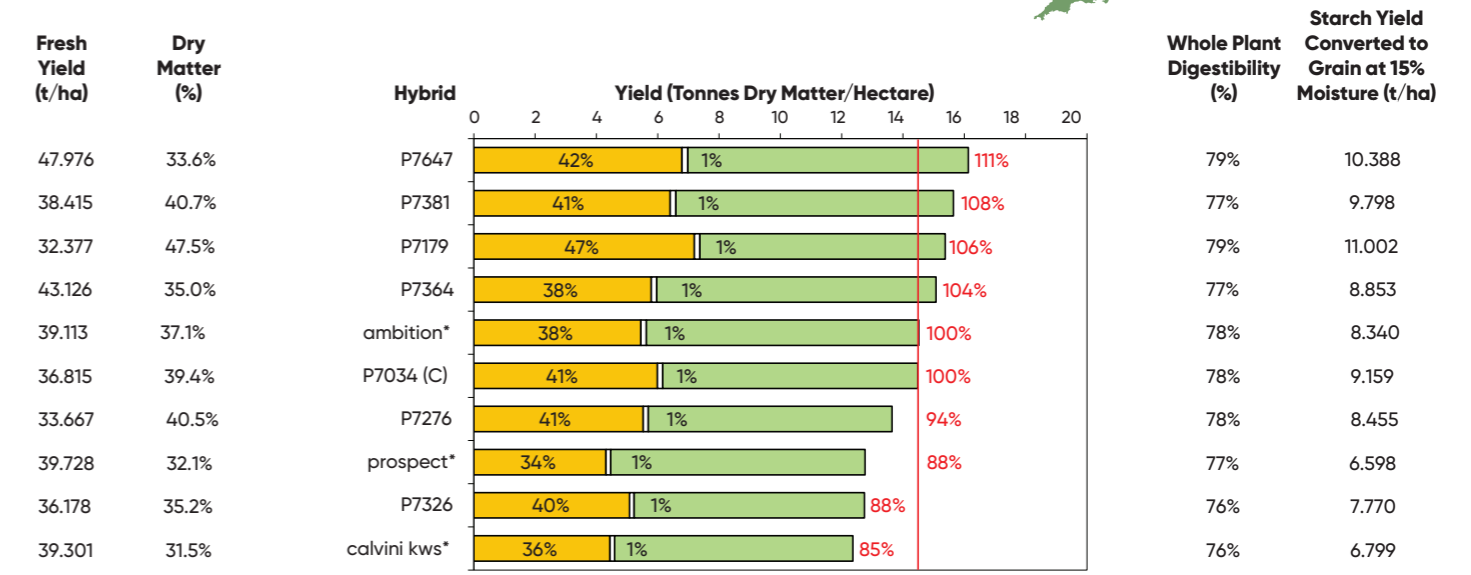
■ Starch Yield & % ■ Sugar Yield & % ■ Stover Yield ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid; ** = Hybrid trade name following official registration

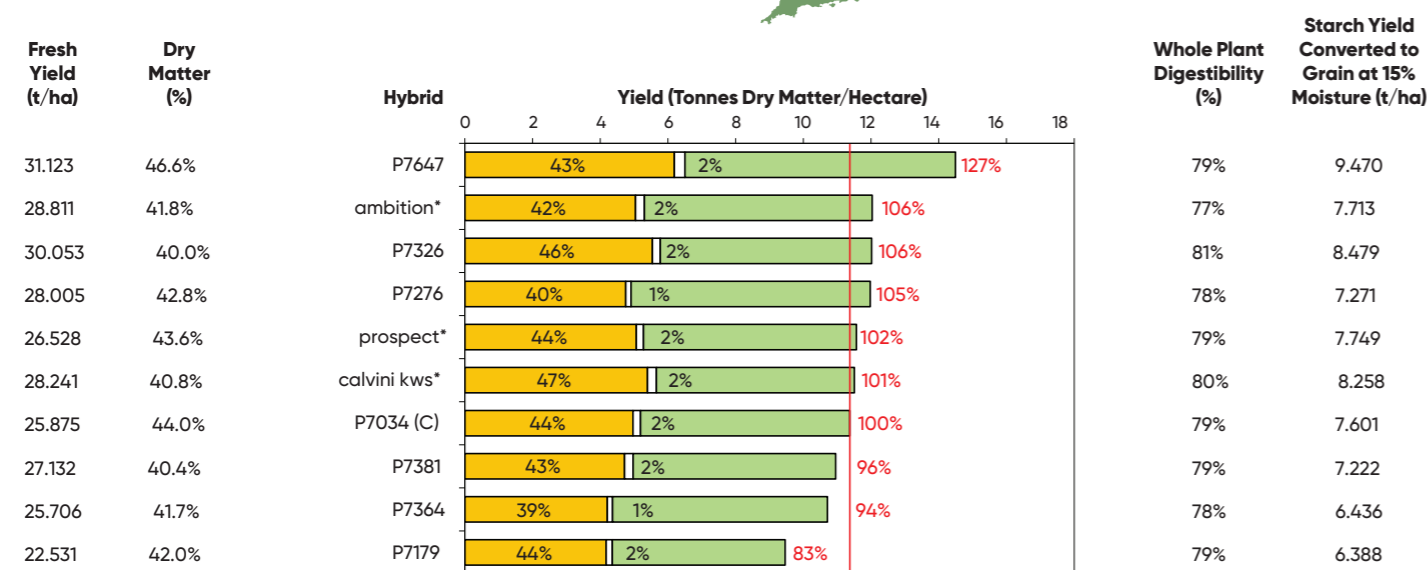
Glyn Jones, Denbighshire



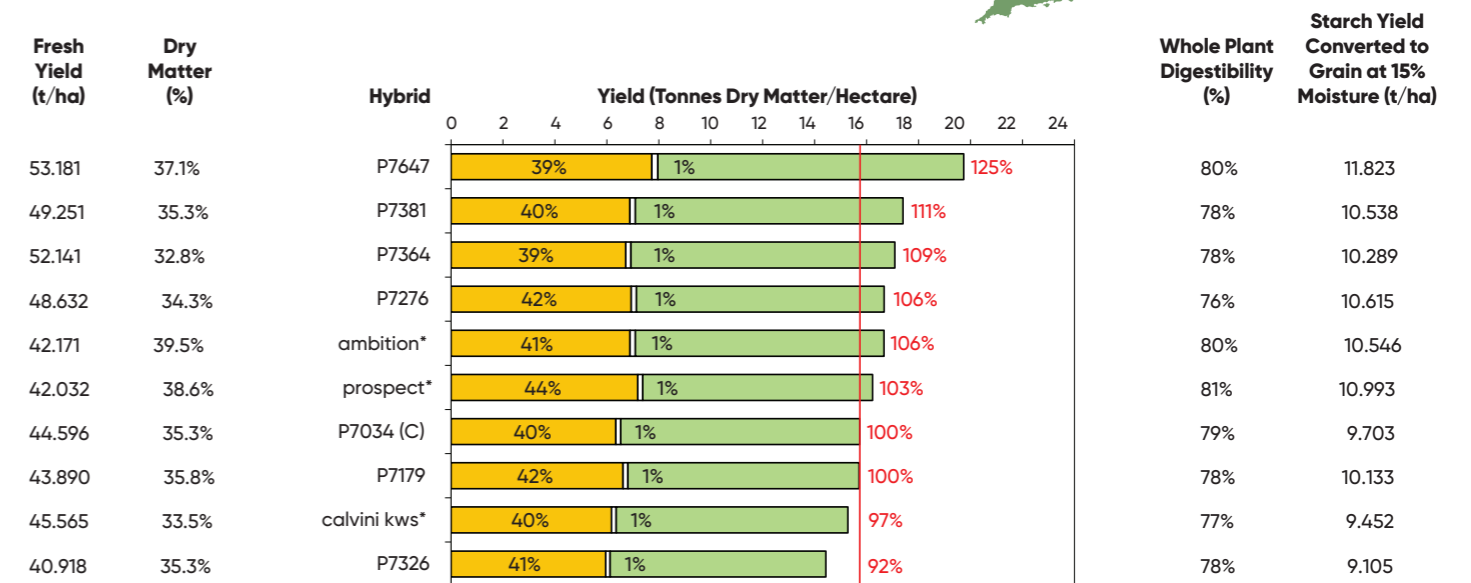
Neville Kirkham, Leicestershire



Gareth Powell, Powys



David Garlick, Herefordshire



■ Starch Yield & %
 Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

■ Starch Yield & %
 Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Mark Goatley, Northamptonshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 19.727 | 41.5% | P7276 | 35% Starch, 1% Sugar, 64% Stover | 79% | 4.337 |
| 18.537 | 42.8% | P7179 | 43% Starch, 1% Sugar, 56% Stover | 78% | 5.198 |
| 20.771 | 35.3% | calvini kws* | 41% Starch, 1% Sugar, 58% Stover | 79% | 4.638 |
| 19.131 | 38.3% | P7034 (C) | 31% Starch, 2% Sugar, 67% Stover | 78% | 3.438 |
| 18.948 | 37.3% | P7326 | 36% Starch, 1% Sugar, 63% Stover | 78% | 3.901 |

Ed Lucas, Glamorgan



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 37.698 | 41.2% | P7179 | 43% Starch, 2% Sugar, 55% Stover | 77% | 10.286 |
| 42.463 | 34.7% | P7381 | 40% Starch, 1% Sugar, 59% Stover | 77% | 8.953 |
| 39.966 | 36.4% | resolute* | 39% Starch, 1% Sugar, 60% Stover | 78% | 8.616 |
| 42.072 | 34.1% | P7948 | 41% Starch, 1% Sugar, 58% Stover | 79% | 8.912 |
| 41.222 | 34.8% | P7276 | 40% Starch, 1% Sugar, 59% Stover | 76% | 8.691 |
| 34.488 | 39.8% | calvini kws* | 42% Starch, 1% Sugar, 57% Stover | 77% | 8.791 |
| 40.151 | 33.8% | P7524 | 38% Starch, 1% Sugar, 61% Stover | 77% | 7.878 |
| 40.187 | 33.6% | P7364 | 37% Starch, 1% Sugar, 62% Stover | 76% | 7.560 |
| 39.977 | 33.8% | autens kws* | 38% Starch, 1% Sugar, 61% Stover | 77% | 7.941 |
| 36.539 | 34.9% | prospect* | 36% Starch, 1% Sugar, 63% Stover | 76% | 6.975 |
| 40.911 | 31.0% | P7647 | 37% Starch, 1% Sugar, 62% Stover | 78% | 7.158 |
| 37.233 | 33.7% | P7034 (C) | 39% Starch, 1% Sugar, 60% Stover | 78% | 7.424 |
| 33.984 | 36.3% | P7326 | 43% Starch, 1% Sugar, 56% Stover | 77% | 8.091 |
| 33.547 | 35.7% | ambition* | 39% Starch, 1% Sugar, 60% Stover | 78% | 7.059 |

Angus Dart, Oxfordshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 31.515 | 40.8% | P7381 | 43% Starch, 2% Sugar, 55% Stover | 79% | 8.434 |
| 29.092 | 42.0% | P7364 | 42% Starch, 2% Sugar, 56% Stover | 78% | 7.863 |
| 28.005 | 42.0% | P7179 | 45% Starch, 2% Sugar, 53% Stover | 79% | 8.179 |
| 30.948 | 36.7% | P7647 | 40% Starch, 2% Sugar, 58% Stover | 78% | 6.948 |
| 29.726 | 37.9% | P7948 | 41% Starch, 2% Sugar, 57% Stover | 79% | 6.987 |
| 30.048 | 36.7% | resolute* | 45% Starch, 2% Sugar, 53% Stover | 81% | 7.602 |
| 28.048 | 38.4% | P7276 | 43% Starch, 2% Sugar, 55% Stover | 78% | 7.024 |
| 25.575 | 42.0% | P7326 | 43% Starch, 2% Sugar, 55% Stover | 78% | 7.105 |
| 25.094 | 42.7% | prospect* | 45% Starch, 2% Sugar, 53% Stover | 79% | 7.363 |
| 25.895 | 41.4% | calvini kws* | 45% Starch, 2% Sugar, 53% Stover | 78% | 7.320 |
| 24.997 | 40.1% | P7034 (C) | 42% Starch, 2% Sugar, 56% Stover | 79% | 6.408 |
| 24.241 | 39.7% | ambition* | 41% Starch, 2% Sugar, 57% Stover | 77% | 5.969 |

Joanna Binnington, West Sussex



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 59.229 | 38.3% | P8200 | 36% Starch, 1% Sugar, 63% Stover | 78% | 12.543 |
| 52.491 | 39.2% | P7948 | 44% Starch, 1% Sugar, 55% Stover | 78% | 13.872 |
| 57.006 | 33.1% | P7381 | 42% Starch, 1% Sugar, 57% Stover | 79% | 12.009 |
| 49.206 | 38.2% | P7276 | 44% Starch, 1% Sugar, 55% Stover | 79% | 12.597 |
| 60.335 | 31.1% | P8201 | 38% Starch, 1% Sugar, 61% Stover | 77% | 10.785 |
| 50.371 | 36.7% | P7647 | 39% Starch, 1% Sugar, 60% Stover | 79% | 11.042 |
| 61.607 | 28.7% | P8171 | 38% Starch, 1% Sugar, 61% Stover | 78% | 10.382 |
| 47.465 | 36.8% | resolute* | 41% Starch, 1% Sugar, 58% Stover | 78% | 10.825 |
| 50.924 | 34.0% | P7364 | 42% Starch, 1% Sugar, 57% Stover | 79% | 11.153 |
| 41.886 | 39.3% | prospect* | 44% Starch, 1% Sugar, 55% Stover | 80% | 11.143 |
| 40.782 | 38.8% | ambition* | 42% Starch, 1% Sugar, 57% Stover | 79% | 10.087 |
| 42.940 | 36.5% | P7179 | 40% Starch, 1% Sugar, 59% Stover | 77% | 9.613 |
| 41.191 | 36.7% | P7034 (C) | 40% Starch, 1% Sugar, 59% Stover | 78% | 9.128 |
| 40.889 | 35.6% | P7326 | 39% Starch, 1% Sugar, 60% Stover | 78% | 8.752 |
| 43.269 | 33.5% | calvini kws* | 36% Starch, 1% Sugar, 63% Stover | 78% | 7.976 |

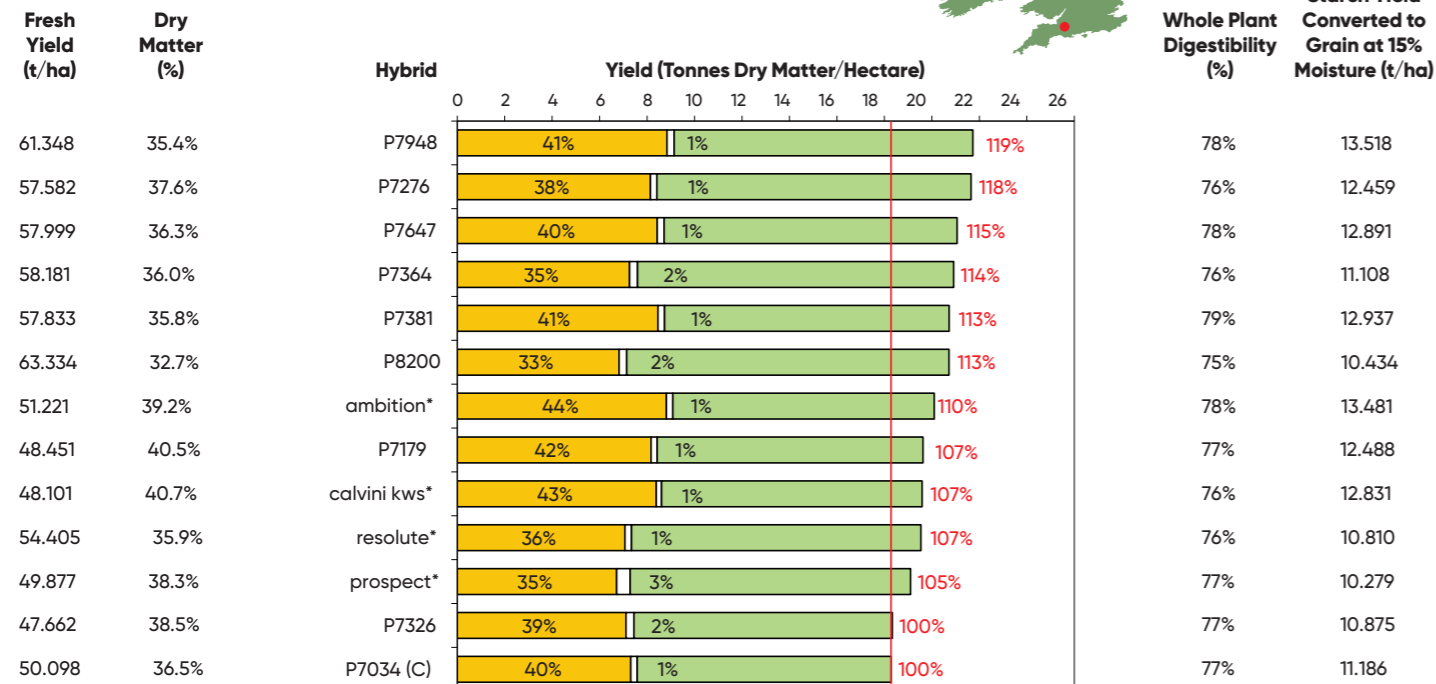
■ Starch Yield & % ■ Sugar Yield & % ■ Stover Yield ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

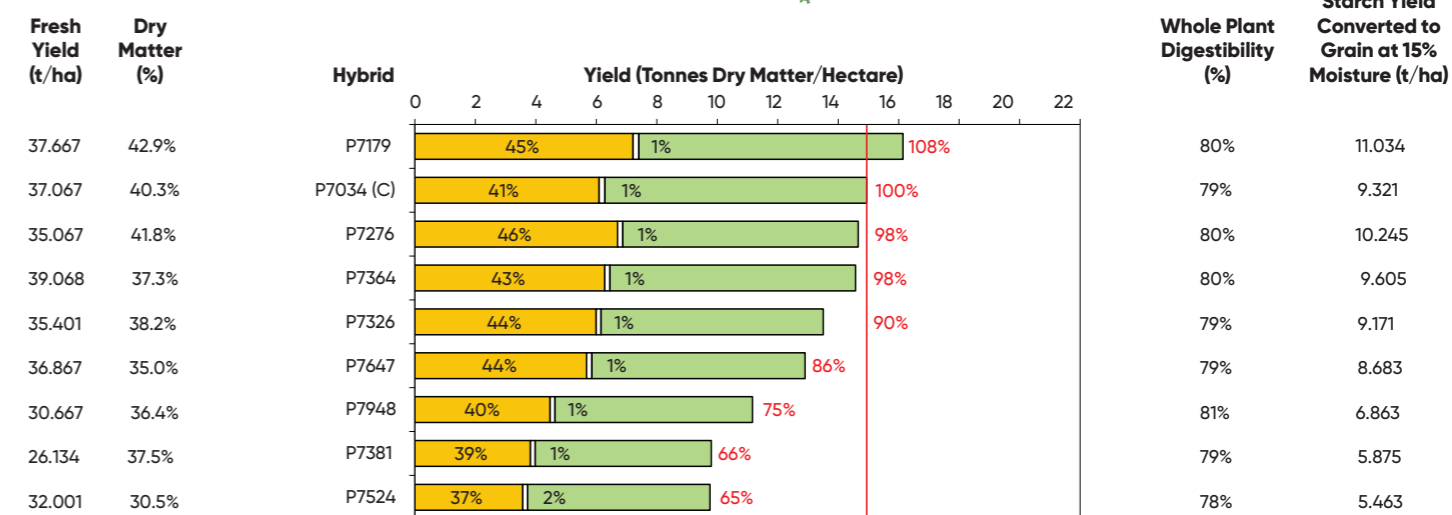
■ Starch Yield & % ■ Sugar Yield & % ■ Stover Yield ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

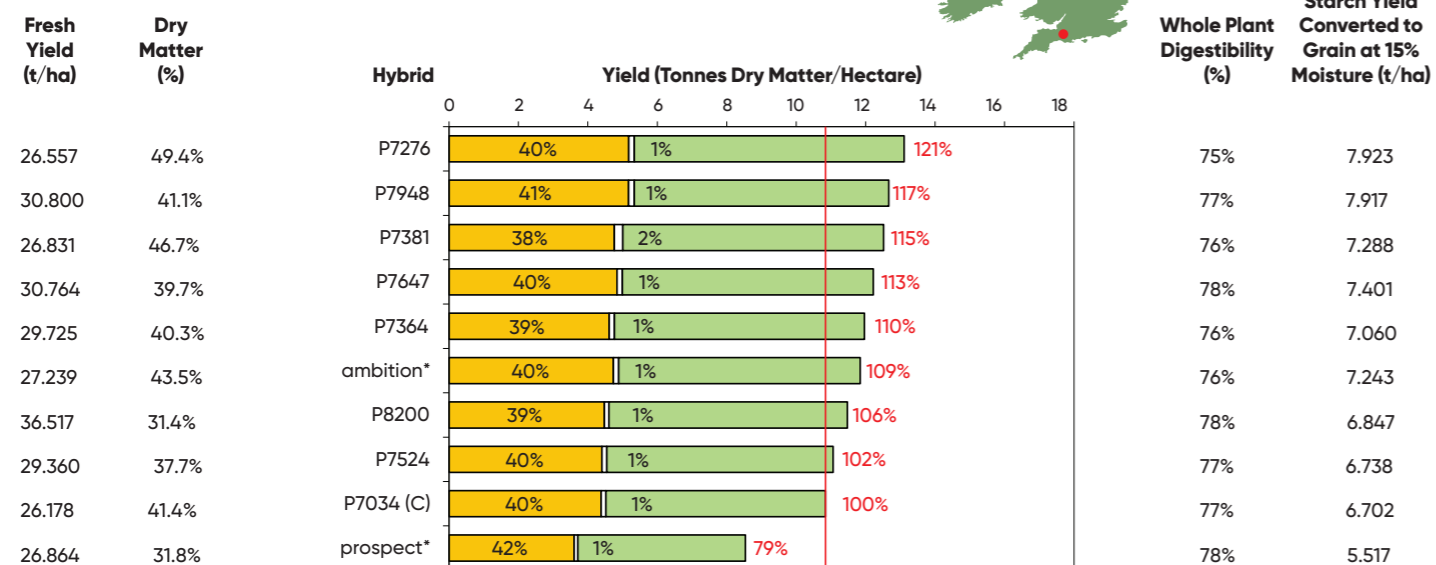
Jamie Montgomery, Somerset



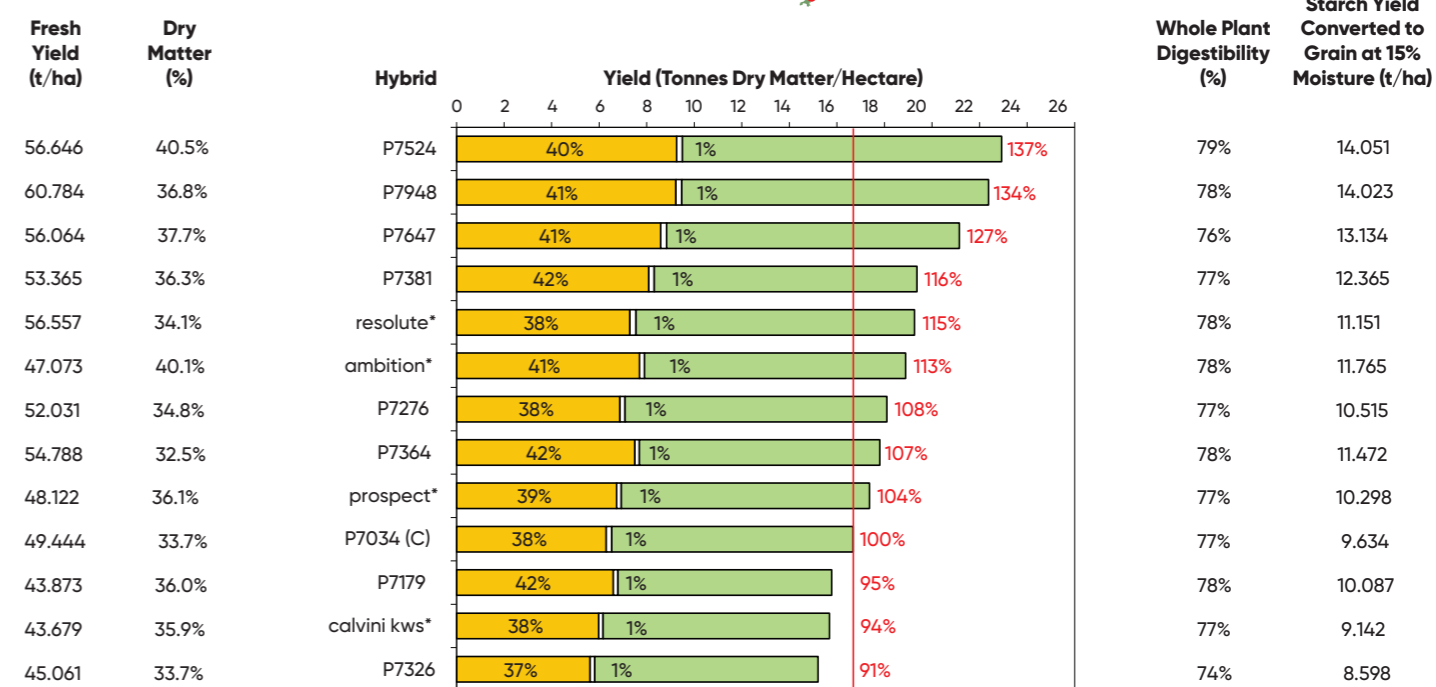
Max Frampton, Dorset



Velcourt, Dorset



Irwin Morrow, Cornwall



■ Starch Yield & %
 Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

■ Starch Yield & %
 Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Neil Rowe, Cornwall



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|--------------|-----------------------------------|-------------------------------|--|
| 51.834 | 39.7% | P7381 | 45% Starch, 1% Sugar, 120% Stover | 79% | 14.121 |
| 51.144 | 37.0% | P7364 | 44% Starch, 1% Sugar, 111% Stover | 79% | 12.689 |
| 49.083 | 37.7% | P7948 | 45% Starch, 1% Sugar, 108% Stover | 79% | 12.786 |
| 53.350 | 34.5% | P7647 | 46% Starch, 1% Sugar, 107% Stover | 79% | 12.869 |
| 43.481 | 41.6% | P7276 | 46% Starch, 1% Sugar, 106% Stover | 80% | 12.652 |
| 43.997 | 40.9% | calvini kws* | 45% Starch, 1% Sugar, 105% Stover | 79% | 12.396 |
| 46.964 | 38.2% | resolute* | 45% Starch, 1% Sugar, 105% Stover | 79% | 12.243 |
| 43.911 | 39.0% | P7034 (C) | 43% Starch, 1% Sugar, 100% Stover | 79% | 11.251 |
| 42.234 | 37.3% | prospect* | 44% Starch, 1% Sugar, 92% Stover | 79% | 10.723 |

Ranald Fowler, Devon



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|---------------|-----------------------------------|-------------------------------|--|
| 36.167 | 43.6% | P7948 | 44% Starch, 1% Sugar, 102% Stover | 79% | 10.623 |
| 42.001 | 36.8% | P8200 (C) | 41% Starch, 2% Sugar, 100% Stover | 77% | 9.631 |
| 42.418 | 36.1% | P8201 | 41% Starch, 1% Sugar, 99% Stover | 77% | 9.542 |
| 44.501 | 33.6% | P8171 | 39% Starch, 1% Sugar, 97% Stover | 77% | 8.873 |
| 27.334 | 51.5% | P7179 | 45% Starch, 1% Sugar, 91% Stover | 78% | 9.614 |
| 32.001 | 43.5% | P7524 | 43% Starch, 1% Sugar, 90% Stover | 77% | 9.048 |
| 29.084 | 46.8% | P7034 | 43% Starch, 1% Sugar, 88% Stover | 78% | 9.004 |
| 28.584 | 46.1% | P7326 | 44% Starch, 1% Sugar, 85% Stover | 78% | 8.807 |
| 28.084 | 43.9% | P7892 | 42% Starch, 1% Sugar, 80% Stover | 77% | 7.816 |
| 38.334 | 32.1% | P7892 NO FILM | 36% Starch, 1% Sugar, 80% Stover | 77% | 6.737 |
| 35.667 | 32.6% | P7034 NO FILM | 38% Starch, 1% Sugar, 75% Stover | 78% | 6.793 |
| 27.167 | 36.0% | P7179 NO FILM | 39% Starch, 1% Sugar, 63% Stover | 77% | 5.878 |

Richard Phillips, Pembrokeshire



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|-----------|-----------------------------------|-------------------------------|--|
| 31.042 | 41.1% | P7326 | 44% Starch, 1% Sugar, 109% Stover | 78% | 8.546 |
| 34.202 | 37.1% | P7524 | 43% Starch, 1% Sugar, 108% Stover | 79% | 8.286 |
| 36.980 | 33.9% | P7364 | 42% Starch, 2% Sugar, 107% Stover | 78% | 8.072 |
| 34.515 | 35.8% | P7948 | 42% Starch, 1% Sugar, 106% Stover | 78% | 7.975 |
| 35.765 | 33.9% | P7034 | 42% Starch, 2% Sugar, 104% Stover | 78% | 7.862 |
| 30.903 | 38.4% | P7276 | 39% Starch, 1% Sugar, 101% Stover | 76% | 7.042 |
| 24.480 | 48.0% | P7179 | 45% Starch, 1% Sugar, 100% Stover | 78% | 8.159 |
| 41.529 | 28.2% | P8200 (C) | 39% Starch, 1% Sugar, 100% Stover | 77% | 6.896 |
| 32.466 | 35.5% | P7381 | 39% Starch, 1% Sugar, 98% Stover | 77% | 6.839 |
| 39.168 | 27.5% | P8201 | 34% Starch, 1% Sugar, 92% Stover | 76% | 5.617 |
| 41.494 | 25.0% | P8171 | 34% Starch, 1% Sugar, 89% Stover | 76% | 5.315 |

Samuel J. Shine, Co. Limerick



| Fresh Yield (t/ha) | Dry Matter (%) | Hybrid | Yield (Tonnes Dry Matter/Hectare) | Whole Plant Digestibility (%) | Starch Yield Converted to Grain at 15% Moisture (t/ha) |
|--------------------|----------------|-----------|-----------------------------------|-------------------------------|--|
| 54.168 | 45.4% | P7276 | 39% Starch, 1% Sugar, 105% Stover | 75% | 14.631 |
| 59.724 | 39.1% | P8200 (C) | 39% Starch, 1% Sugar, 100% Stover | 75% | 14.071 |
| 61.783 | 35.9% | P8153 | 38% Starch, 1% Sugar, 95% Stover | 75% | 13.026 |
| 66.534 | 33.0% | P8255 | 39% Starch, 2% Sugar, 94% Stover | 75% | 13.230 |
| 45.691 | 45.3% | P7364 | 39% Starch, 1% Sugar, 89% Stover | 76% | 12.282 |
| 63.173 | 31.7% | P8201 | 39% Starch, 1% Sugar, 86% Stover | 76% | 11.792 |
| 42.779 | 44.3% | P7326 | 41% Starch, 1% Sugar, 81% Stover | 76% | 11.912 |
| 44.168 | 42.6% | P7381 | 41% Starch, 1% Sugar, 81% Stover | 76% | 11.712 |
| 63.711 | 27.4% | P8171 | 38% Starch, 2% Sugar, 75% Stover | 75% | 10.172 |
| 43.612 | 38.9% | P7460 | 37% Starch, 2% Sugar, 73% Stover | 74% | 9.522 |
| 50.001 | 33.1% | DS1959C | 39% Starch, 1% Sugar, 71% Stover | 75% | 9.745 |
| 34.484 | 45.2% | P7034 | 41% Starch, 1% Sugar, 67% Stover | 76% | 9.678 |

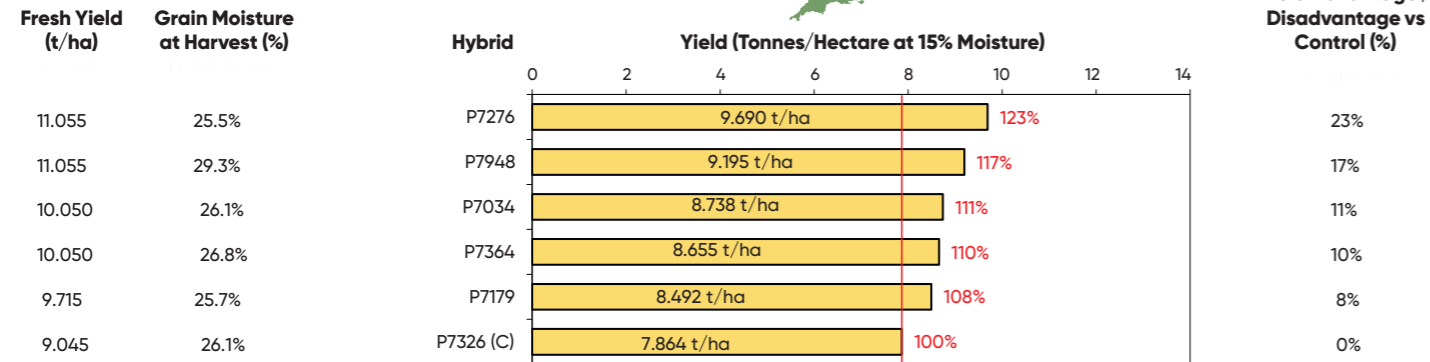
■ Starch Yield & %
 ■ Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

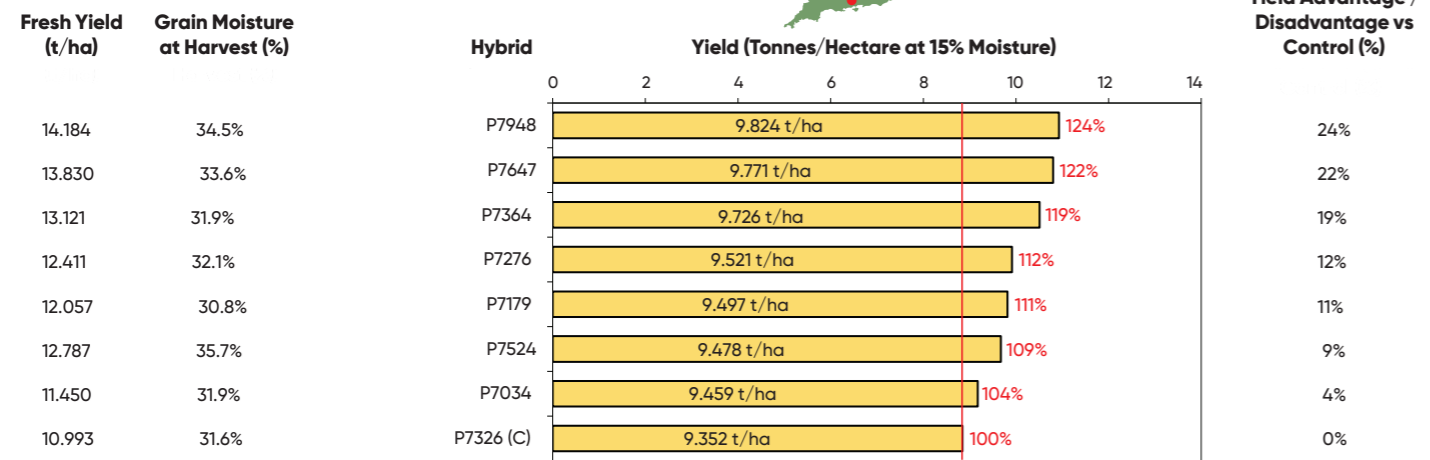
■ Starch Yield & %
 ■ Sugar Yield & %
 ■ Stover Yield
 ■ Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; O = Grown in the open; * = Competitor Hybrid, ** = Trade name following official registration

Tim Farthing, Wiltshire



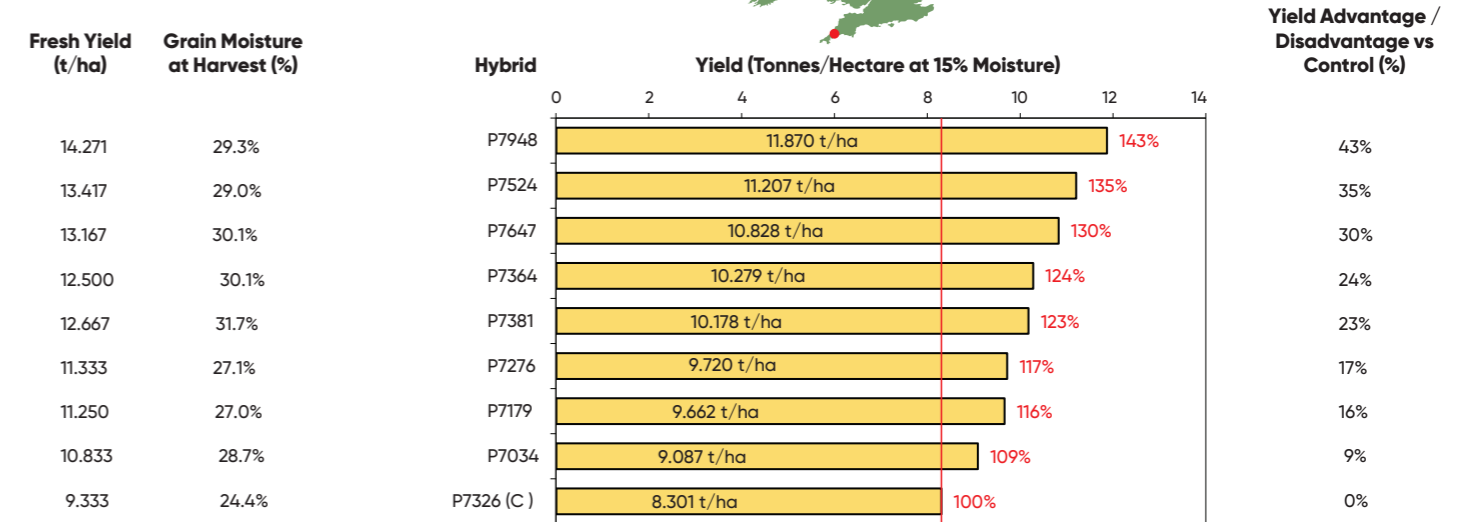
Alan Cook, Hampshire



Grain Yield, Tonnes/Hectare at 15% Moisture Relative Yield Index (C = 100%)

C = Control Hybrid; * = Competitor Hybrid; ** = Trade name following official registration

Mark Pethick, Cornwall



Grain Yield, Tonnes/Hectare at 15% Moisture Relative Yield Index (C = 100%)

C = Control Hybrid; * = Competitor Hybrid; ** = Trade name following official registration

INDIVIDUAL SITE AGRONOMY DETAILS

| NAME > | JOANNA BINNINGTON | KEITH BLENKIRON | CLAYTON PARTNERSHIP | ALAN COOK |
|---------------------------------|-----------------------------------|--|--|----------------------------|
| TOWN | PULBOROUGH | NORTHALLERTON | MALPAS | ROMSEY |
| COUNTY & COUNTRY | EAST SUSSEX, GB | YORKSHIRE, GB | CHESHIRE, GB | HAMPSHIRE, GB |
| SITE CLASSIFICATION | FAVOURABLE | LESS FAVOURABLE | LESS FAVOURABLE | FAVOURABLE |
| TRIAL TYPE | FORAGE, OPEN | FORAGE, OPEN | FORAGE, OPEN | GRAIN, OPEN |
| SOIL TYPE | GREENSAND | SANDY LOAM | MEDIUM LOAM | CLAY LOAM |
| ALTITUDE (METRES) | 50 | 46 | 65 | 60 |
| ANNUAL RAINFALL (MM) | 825 | 660 | 800 | 900 |
| PREVIOUS CROPPING 2021 | MAIZE | - | - | WINTER OILSEED RAPE |
| SOIL pH | 6.4 | 6.7 | 7.1 | 7.2 |
| SOIL PHOSPHATE (P) INDEX | 6 | 4 | 3 | 3 |
| SOIL POTASSIUM (K) INDEX | 3 | 4 | 3 | 2+ |
| SOIL MAGNESIUM (MG) INDEX | 3 | 4 | 0 | 2 |
| SLURRY, TYPE & VOLUME (L/HA) | CATTLE / 20,000 / - | CATTLE / 50,000 / 22-03 | - | - |
| MANURE, TYPE & QUANTITY (T/HA) | - | CHICKEN / 12 / 22-03 | - | CATTLE / 7 / 02-03 |
| FERT 1 - TYPE/RATE (KG/HA)/DATE | DAP / 120 / 06-05 | - | 8-0-18 / 50 / 30-04 | OMEX 26.0.0 / 435L / 16.04 |
| FERT 2 - TYPE/RATE (KG/HA)/DATE | 34.5AN / 150 / - | - | GRANULAR K / 60 / 25-04 | OMEX SO3 / - / 16.04 |
| FERT 3 - TYPE/RATE (KG/HA)/DATE | - | - | LIQUID 140-0-82 / 28.04 | - |
| SPRAY 1 - NAME/RATE/DATE | STOMP / 3.0 / 12-05 | MERISTO / 1.4 / 05-06 | LEYSTAR / 1.0 / 05-06 | FOMET 6 OD / 0.5 / 28-05 |
| SPRAY 2 - NAME/RATE/DATE | BARRACUDA / 1.0 / 31-05 | NICO / 0.83 / 05-06 | ANTHEM / 3.0 / 03-06 | CALLISTO / 0.75 / 28-05 |
| SPRAY 3 - NAME/RATE/DATE | GYO / 0.75 / 31-05 | DINGO / 0.5 / 05-06 | ENTAIL / 0.125 / 05-06 | DIVA / 0.75 / 28-05 |
| SPRAY 4 - NAME/RATE/DATE | - | - | HEADLAND ZEAMA / 4.0 / 23-06 | - |
| SOWING DATE/HARVEST DATE | 06-05 / 17-09 | 05-05 / 16-09 | 30-04 / 14-10 | 25-04 / 10-10 |
| SEEDING RATE - SEEDS/HA | 98,000 | 42,500 | 105,000 | 104,000 |
| NAME > | ED LUCAS | ANGUS DART | TIM FARTHING | RANALD FOWLER |
| TOWN | CARDIFF | DIDCOT | MELKSHAM | BARNSTAPLE |
| COUNTY & COUNTRY | SOUTH WALES | OXON, GB | WILTSHIRE, GB | DEVON, GB |
| SITE CLASSIFICATION | FAVOURABLE | FAVOURABLE | FAVOURABLE | LESS FAVOURABLE |
| TRIAL TYPE | FORAGE, OPEN | FORAGE, OPEN | GRAIN, OPEN | FORAGE, FILM |
| SOIL TYPE | CLAY LOAM | SANDY LOAM | SANDY LOAM | CLAY LOAM |
| ALTITUDE (METRES) | - | 68 | 60 | 90 |
| ANNUAL RAINFALL (MM) | - | 806 | 800 | 825 |
| PREVIOUS CROPPING 2021 | GRASS | WINTER OILSEED RAPE | MAIZE | GRASS |
| SOIL pH | - | 6.8 | 6.2 | 6.1 |
| SOIL PHOSPHATE (P) INDEX | - | 2 | 3 | 3 |
| SOIL POTASSIUM (K) INDEX | 2+ | 6 | 3 | 2+ |
| SOIL MAGNESIUM (MG) INDEX | 2 | 2 | 2 | 3 |
| SLURRY, TYPE & VOLUME (L/HA) | CATTLE / 25,000 / 20-04 | - | - | - |
| MANURE, TYPE & QUANTITY (T/HA) | - | CATTLE / 30,000 / 01-04 | - | CATTLE / 25,000 / 09-04 |
| FERT 1 - TYPE/RATE (KG/HA)/DATE | PHYSIO / 25 / 05-05 | MZ28 / 100 / 03-07 | 0.0.60 / 200 / 28-04 | 27-0-0-10SO3 / 200 / 10-04 |
| FERT 2 - TYPE/RATE (KG/HA)/DATE | NUTRINO PRO / 20 / 03-07 | - | DAP / 100 / 30-04 | MOP / 100 / 21-04 |
| FERT 3 - TYPE/RATE (KG/HA)/DATE | 23-0-0-2.6 / 23 / 03-07 | - | UREA / 330 / 01-05 | - |
| SPRAY 1 - NAME/RATE/DATE | PRIMERO / 1 / 03-06 | DUAL GOLD / 0.5 / 30-04 | ROUNDUP MAX / 0.5 + HURLER / 0.5 / 03-05 | WING P / 4.0 / 23-04 |
| SPRAY 2 - NAME/RATE/DATE | DANEVE / 1 / 03-06 | STOMP AQUA / 2.0 / 30-04 | KIMBO / 20G / 30-05 | MERISTO / 1.0 / 18-05 |
| SPRAY 3 - NAME/RATE/DATE | PROGRAM / 3 / 03-06 | ENTAIL / 0.17 / 03-06 | NICO PRO / 0.5 / 30-05 | NICO PRO / 1.0 / 18-05 |
| SPRAY 4 - NAME/RATE/DATE | - | BARRACUDA / 1.25 / 03-06 | CALLISTO / 0.5 / + NICO PRO / 0.25 / 14-06 | - |
| SOWING DATE/HARVEST DATE | 05-05 / 10-10 | 29-04 / 16-09 | 01-05 / 22-10 | 21-04 / 16-09 |
| SEEDING RATE - SEEDS/HA | 98,000 | 98,000 | 99,000 | 104,000 |
| NAME > | A.W. FRAMPTON & SONS | DAVID GARLICK | MARK GOATLEY | A J & E MONTGOMERY |
| TOWN | DORCHESTER | BROMYARD | TOWCESTER | NORTH CADBURY |
| COUNTY & COUNTRY | DORSET, GB | HEREFORDSHIRE, GB | NORTHANTS, GB | SOMERSET, GB |
| SITE CLASSIFICATION | FAVOURABLE | LESS FAVOURABLE | LESS FAVOURABLE | FAVOURABLE |
| TRIAL TYPE | FORAGE, OPEN | FORAGE, OPEN | FORAGE, OPEN | FORAGE, OPEN |
| SOIL TYPE | MEDIUM LOAM | MEDIUM LOAM | - | CLAY LOAM |
| ALTITUDE (METRES) | 60 | 160 | 90 | 20 |
| ANNUAL RAINFALL (MM) | 1100 | 710 | 670 | 800 |
| PREVIOUS CROPPING 2021 | MAIZE | - | SPRING BARLEY | WINTER WHEAT |
| SOIL pH | 7.8 | 6.7 | 5.9 | 7 |
| SOIL PHOSPHATE (P) INDEX | 3 | 2 | 2 | 3 |
| SOIL POTASSIUM (K) INDEX | 2+ | 2+ | 2+ | 2+ |
| SOIL MAGNESIUM (MG) INDEX | 2 | 2 | 1 | 3 |
| SLURRY, TYPE & VOLUME (L/HA) | - | - | - | CATTLE / 30,000 / - |
| MANURE, TYPE & QUANTITY (T/HA) | CATTLE / 25,000 / - | CATTLE / 30 / 26-04 POULTRY / 5 / 26-04 | CATTLE / 20,000 / - | - |
| FERT 1 - TYPE/RATE (KG/HA)/DATE | PHYSIOSTART / 25 / 10-05 | - | 20.4.5.14.5.75SO3 / 125 / 02-05 | - |
| FERT 2 - TYPE/RATE (KG/HA)/DATE | 34.5%AN / 150 / 30-05 | - | 34.5% N / 100 / 29-03 | - |
| FERT 3 - TYPE/RATE (KG/HA)/DATE | - | - | - | - |
| SPRAY 1 - NAME/RATE/DATE | WING P / 3.8 / 13-05 | NICOSULFURON / 0.75 / 07-06 | BARRACUDA / 0.75 / 05-06 | ANTHEM / 3.3 / 05-05 |
| SPRAY 2 - NAME/RATE/DATE | MOST MICRO / 1.0 / 13-05 | MESOTRIONE / 0.75 / 07-06 | ENTAIL / 0.15 / 05-06 | ENTAIL / 0.17 / 26-05 |
| SPRAY 3 - NAME/RATE/DATE | CALLISTO / 1.0 / 10-06 | - | - | BARRACUDA / 1.0 / 26-05 |
| SPRAY 4 - NAME/RATE/DATE | GYO / 0.5 & ENTAIL / 0.13 / 10-06 | - | - | - |
| SOWING DATE/HARVEST DATE | 10-05 / 27-09 | 26-04 / 02-10 | 02-05 / 22-09 | 28-04 / 28-09 |
| SEEDING RATE - SEEDS/HA | 98,000 | 105,000 | 105,000 | 100,000 |

INDIVIDUAL SITE AGRONOMY DETAILS

| NEVILLE KIRKHAM | GARETH POWELL | GRAHAM SHEPHARD | SEVERN TRENT FARMS | SAMUEL J. SHINE |
|---|------------------------|--------------------------------------|----------------------------------|---|
| LOUGHBOROUGH | OSWESTRY | SCARBOROUGH | NOTTINGHAM | ADARE |
| LEICESTERSHIRE, GB | POWYS, GB | N. YORKS, GB | NOTTINGHAMSHIRE, GB | CO. LIMERICK, ROI |
| LESS FAVOURABLE | LESS FAVOURABLE | LESS FAVOURABLE | FAVOURABLE | LESS FAVOURABLE, FILM |
| FORAGE, OPEN | FORAGE, OPEN | FORAGE, OPEN | FORAGE, OPEN | FORAGE, FILM |
| MEDIUM LOAM | LOAM OVER GRAVEL | - | SANDY LOAM | CLAY |
| 60 | 85 | - | 21 | 9 |
| 630 | 840 | - | 600 | 1200 |
| WINTER BARLEY | - | WINTER WHEAT INTO STUBBLE TURNIPS | MAIZE | - |
| 6.6 | 5.8 | 6.4 | - | 7 |
| 3 | 4 | 4 | - | 2 |
| 4 | 4 | 4 | - | 2+ |
| 2 | 3 | 2 | - | 2 |
| CATTLE / 35,000 / - | DIGESTATE / 42,000 / - | CATTLE / 98,000 / - | DIGESTATE / 39,000 / - | - |
| - | - | - | - | - |
| - | DAP / 60 / 05-05 | EFFICIENT N / 20 / 25-05 | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| ELUMIS / 1.25 / 12-06 | WING-P / 2.875 / 05-05 | PENDIFIN 400 SC / 3.0 / 11-05 | STOMP AQUA / - / 18-04 | - |
| GYO / 0.75 / 12-06 | TORRES / 1.0 / 05-05 | MERISTO / 1.5L / 09-06 | CALLISTO / - / 21.05 | - |
| CALFITE EXTRA / 1.0 / 12-06 | - | PEAK / 20G / 09-06 | ENTAIL / - / 21-05 | - |
| - | - | - | - | - |
| 04-05 / 27-09 | 05-05 / - | 19-05 / 10-10 | 14-04 / 31-08 | 23-04 / 07-10 |
| 105,000 | 105,000 | 44,000 | 85,000 | - |
| RICHARD PHILLIPS | NEIL ROWE | MARK PETHICK | IRWIN MORROW | GLYN JONES |
| HAVERFORDWEST | THE LIZZARD | CALLINGTON | NEWQUAY | ST ASAPH, RHYLL |
| PEMBOKESHIRE, GB | CORNWALL, GB | CORNWALL, GB | CORNWALL, GB | DENBIGHSHIRE, GB |
| LESS FAVOURABLE, FILM | LESS FAVOURABLE | LESS FAVOURABLE | FAVOURABLE | LESS FAVOURABLE |
| FORAGE, FILM | FACTS, OPEN | GRAIN, FILM | FORAGE, OPEN | FORAGE, OPEN |
| MEDIUM LOAM | CLAY LOAM | MEDIUM LOAM | MEDIUM LOAM | SANDY LOAM |
| - | 76 | 105 | 70 | 15 |
| - | 950 | 1250 | 1000 | 900 |
| MAIZE | GRASS | WINTER WHEAT | GRASS | MAIZE |
| 5.9 | 6.2 | 6.5 | 5.8 | 6.9 |
| 3 | 2 | 4 | 3 | 4 |
| 4 | 2 | 2+ | 2 | 2+ |
| 3 | 3 | 3 | 3 | 1 |
| CATTLE / 32,000 / 19-04 | CATTLE / 25,000 / - | - | CATTLE / 22,500 / 20-04 | - |
| CATTLE / 24 / 20-04 | - | - | FYM / 25 / 20-04 | DIGESTATE / 20 / - HORSE MANURE / 25 / |
| FIBROPHOS / 617 / 28-04 | 23-0-30 / 375 / - | 0.730 / 500 / 22-04 | DAP / 148 / 04-05 | - |
| 46% UREA / 250 / 01-05 | - | 46% UREA / 400 / 22-04 | - | YARA UNIVERSAL BIO / 3 / 03-07 |
| - | - | - | - | - |
| STOMP AQUA / 3.3 + WING P / 4.0 / 05-05 | ENTAIL / 0.15 / - | WING P / 4.0 / 30-04 | BOTIGO / 0.91 / - | ANTHEM / 2.0 / 02-05 |
| BASILICO / 0.75 + ENTAIL / 1.25 / 21-06 | BASILICO / 0.83 / - | - | SAMSON EXTRA 6% / 0.56 / - | MERISTO / 1.0 / 09-06 |
| NURANCE 28%N / 20 / 27-07 | - | - | CLEANCROP GALLIFREY 3 / 0.25 / - | NICO PRO HEADLAND MAIZE MICRO / 0.75 / 09-06 |
| - | - | - | - | - |
| 05-04 / 29-09 | 04-05 / 19-09 | 30-04 / 18-10 | 04-05 / 03/10 | 30-04 / 09-10 |
| 104,000 | 104,000 | - | 96,000 | 105,000 |
| GLYN JONES | VELCOURT | | | |
| ST ASAPH, RHYLL | DORCHESTER | | | |
| DENBIGHSHIRE, GB | DORSET, GB | | | |
| LESS FAVOURABLE | FAVOURABLE | | | |
| FORAGE, OPEN | FORAGE, OPEN | | | |
| SANDY LOAM | CLAY LOAM | | | |
| 15 | - | | | |
| 900 | - | | | |
| MAIZE | WESTERWOLD GRASS | | | |
| 6.9 | 6.5 | | | |
| 4 | 2 | | | |
| 2+ | 1 | | | |
| 1 | 2 | | | |
| - | CATTLE / 38,000 / - | | | |
| DIGESTATE / 20 / - HORSE MA- NURE / 25 / | - | | | |
| - | MOP / 133 / 26-04 | | | |
| YARA UNIVERSAL BIO / 3 / 03-07 | 46% UREA / 152 / 26-04 | | | |
| - | DAP / 85.3 / 03-05 | | | |
| ANTHEM / 2.0 / 02-05 | ROUND UP / 4 / 19-04 | | | |
| MERISTO / 1.0 / 09-06 | FORNIT / 6 / 21-05 | | | |
| NICO PRO HEADLAND MAIZE MICRO / 0.75 / 09-06 | MERBA / 0.75 / 21-05 | | | |
| - | - | | | |
| 30-04 / 09-10 | 03-05 / 09-09 | | | |
| 105,000 | 100,000 | | | |

NOTES

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NOTES

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