

Crop Guide



Welcome to the 2012 season

Dear valued customer,

International demand of all types of grain continues to grow year-on-year. This, coupled with recent climatic events negatively impacting crop yields in many parts of the world, has indirectly led to local improvements in the local price of grain. Cotton prices have also softened making the comparative gross margins of corn and grain sorghum more attractive than they have been for a number of years.

Our corn and sorghum breeders continue to deliver genetic gains in yield and agronomic performance with a number of new hybrids becoming commercially available this season. We are excited about these new Pioneer® brand hybrids and we are confident that come harvest time you will be too. So if you are considering growing corn or sorghum on your farm this season please talk to one of our team of knowledgeable area managers or promoter agents, who can recommend the best hybrids for every one of your paddocks.

This year we are introducing the **STRIKE (Seed Technology Research in Key Environments)** trialling program to make sure we deliver the best hybrids to you and to give you the most information when making a decision about which hybrids to grow. For more information see page 23.

This year also sees a change to Pioneer's brand image. From July 1 we are known as **DuPont Pioneer** and we have a new logo that reflects this change. The updated brand is to recognise DuPont as Pioneer's parent company and to demonstrate DuPont's mission of bringing science to the field through seed technology.

But there are no changes to the way we work in partnership with growers and as always we retain our commitment to our **Long Look values**, which are:

- We strive to produce the best products on the market.
- We deal honestly and fairly with our customers, seed growers, employees, sales force, business associates and shareholders.
- We advertise and sell our products vigorously but without misrepresentation.
- We give helpful management suggestions to our customers to assist them in making the greatest possible profit from our products.

Pioneer's Long Look principles have been in place since 1952 and will always be the cornerstone of the way Pioneer does business.

All the best for the coming season.



Keith Glasson
Managing director
Pioneer Hi-Bred Australia

CONTENTS

| | |
|----------------|----|
| Corn | 2 |
| Grain Sorghum | 12 |
| Inoculants | 18 |
| Forage Sorghum | 20 |
| Betta Strike | 22 |
| STRIKE Trials | 23 |
| Club Pioneer | 24 |



Stacks of benefits. Stacks of choice.

Excellent yield and vigour

Advanced protection traits

The right hybrid for every paddock

– Irrigated and dryland

– Processing, feed or silage

Consistent supply of top quality seed

ASK US
ABOUT OUR
SIX MONTH
CROP CREDIT
TERMS.

There are stacks of reasons why you should choose Pioneer® brand corn hybrids on your farm.

With so many benefits, it's easy to see why growing corn hybrids from Pioneer stacks up in more ways than one. What's more, with a consistent supply of seed, you can be sure we've got the hybrid you want, when you want it.

For more information: call 07 4637 3600 or visit www.pioneer.com



Pioneer® brand corn hybrids: what people are saying.



P1813-IT produced an average yield of 10 t/ha for **Dalby** growers **Steve and Kevin Berger**. The P1813-IT was useful because of its herbicide resistance to the imidazolinone group of herbicides because of possible Spinnaker residues from the Mungbean crop in the previous year. In a side-by-side yield test, the P1813-IT showed an 8% yield increase over Hycorn 727.



Pioneer® hybrid **P1813-IT** was used by **Philip and Lisa Crothers**, who farm near **Warwick**, as a weed control strategy. P1813-IT is tolerant to Lightning herbicide, which controls Johnston grass and other grass weeds, which have become a problem on Mr Crothers' farm after wet years and flooding. The dryland P1813-IT was yield-tested with a weigh bin at 12.07 t/ha.



Lockyer Valley corn grower **Wayne Keller** produced excellent yields from Pioneer® hybrid **32P55** which yielded 14.20 t/ha with one irrigation on his Lowood property.



A paddock of maize silage produced enough feed for 18 months for dairy farmer **Russell Gillie** at **Yambuna** in the **Goulburn Valley** of Victoria. The Pioneer® hybrid 36Y84 yielded 20 DM t/ha in an excellent result.



Yields of 17 t/ha were achieved by **Paul Moon** of **Yenda** in southern New South Wales with Pioneer® hybrid **P1813-IT**. "I'd never seen a corn crop like it before," Mr Moon said.



The new Pioneer® hybrid **P2307** impressed with its vigour and yield on **Barry Hinrichsen's** Kalbar property in the **Fassifern Valley** producing 12.36 t/ha of grain. "It had a fantastic yield," Mr Hinrichsen said. "It was also very quick out of the ground."



Pioneer® hybrid **32P55** was a useful rotation option with cotton for **Brookstead** grower **Brett Porter**. Mr Porter said the paddock had shown signs of fusarium the previous season and the corn gave a disease break as well as producing an average yield of 10 t/ha.

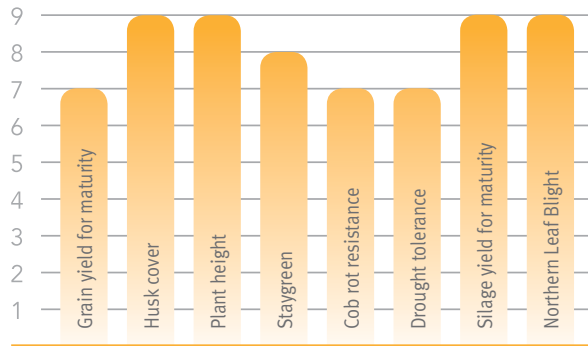


High quality silage was made from Pioneer® hybrid **34N43** by **Will Hemphill** of **Kyabram** in the Goulburn Valley. The 34N43 produced 24 t/ha of dry matter and silage with 11% ME. Mr Hemphill said the silage would be an excellent base to the ration for his dairy herd.

Pioneer® brand corn hybrids.



CRM123



New full season silage and coastal grain specialist.

- A tall plant with excellent silage yield
- High tolerance to northern leaf blight
- Exceptional late season plant health
- Suitable for all planting times
- Hard textured, flinty grain
- Ideal for coastal and northern regions
- **Under evaluation by processors**

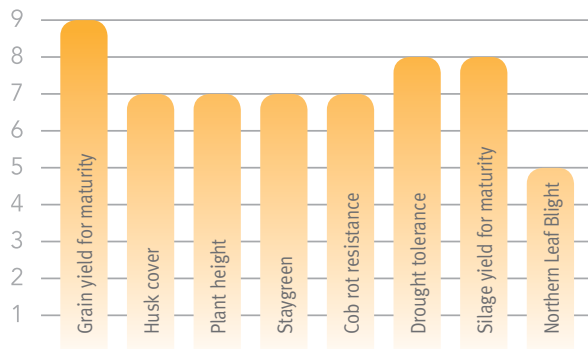
Recommended for regions



NEW



CRM120



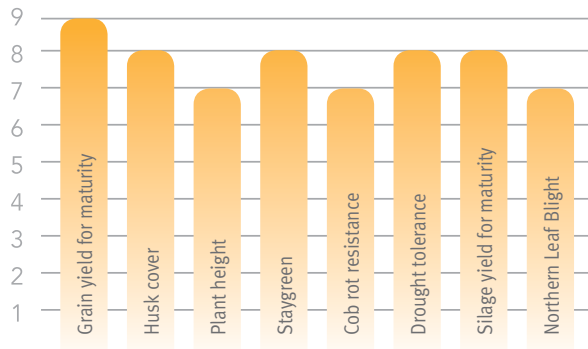
A new high yielding processing hybrid.

- High yielding with outstanding grain quality
- **In the advanced stages of testing for processing**
- Exceptional stalk strength and standability
- Very good disease resistance package, especially to cob rot
- Good levels of staygreen and drought tolerance
- Limited quantities of seed available for 2012/2013 season

Recommended for regions



CRM118



Top end yield from a new IT hybrid.

- New imidazolinone-tolerant (IT) hybrid with excellent yield for maturity
- Widely adapted to a range of growing conditions
- Suited to irrigated and dryland
- Excellent stress tolerance
- Good disease resistance against northern leaf blight and cob rots
- **Under evaluation by processors**

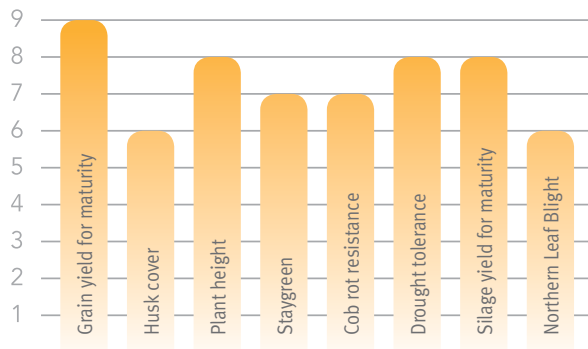
Recommended for regions



NEW



CRM114



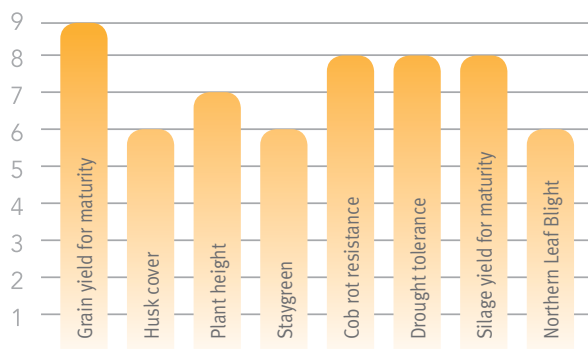
A new top end yield feed corn.

- One of our highest yielding feed hybrids
- Replacing 31G66
- A great trait combination of stalk strength/drought tolerance and staygreen/cob rot resistance
- Limited seed for 2012/2013 season

NEW



CRM110



Yield for quicker maturity.

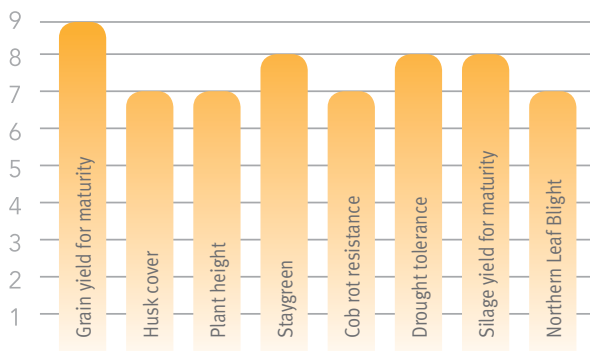
- Replacement for 34N43 and 35A30
- Good husk cover
- Strong cob rot resistance and drought tolerance
- High yield
- Limited seed for 2012/2013 season

FULL SEASON hybrids

MID SEASON hybrids



CRM114



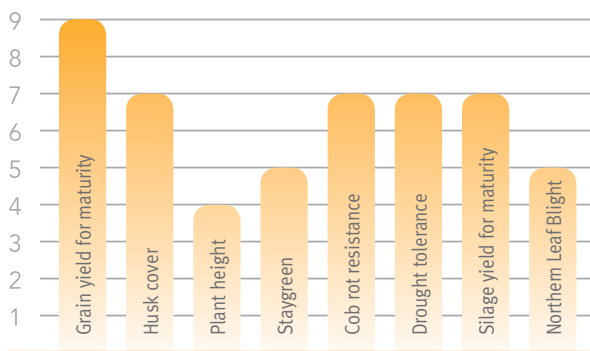
High yielding hybrid for processing (grit, corn chips), feed grain or silage.

- A unique Australian-bred hybrid developed for the processing market (milling, grits and corn chips)
- High yielding: out-yields all other processing hybrids currently available
- Suitable for irrigation and dryland
- Good resistance to fusarium ear rot
- Combination of stalk strength, staygreen, leaf disease resistance and drought tolerance make 32P55 ideal for early or late planting

Recommended for regions



CRM110



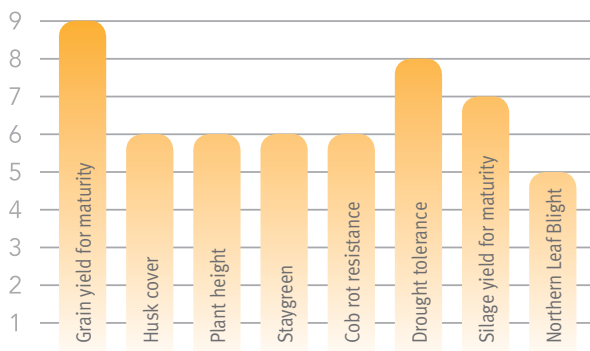
A mid-season hybrid with exceptional yield potential.

- Outstanding yield from a quicker hybrid
- Consistent yields across a range of environments
- Very good drought tolerance
- Feed quality grain
- Short statured plant with large cobs gives high quality silage
- Ideal companion with other CRM hybrids

Recommended for regions



CRM103



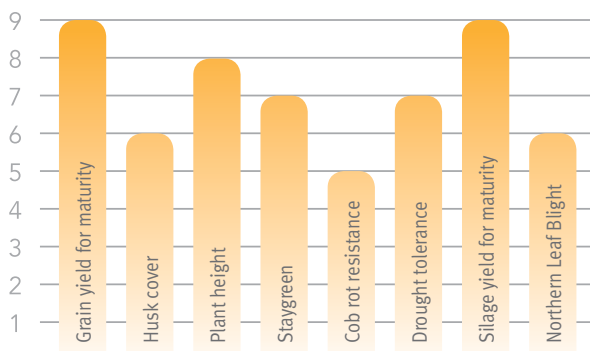
Short-season grain and silage hybrid.

- A dual-purpose hybrid
- Superior grain and silage yield
- Strong agronomic traits including excellent early growth, good root and stalk strength
- Excellent drought tolerance and husk cover

Recommended for regions



CRM104



High grain and silage yield for quick maturity.

- Exciting new hybrid with outstanding grain and silage yields
- Produces excellent silage quality of high digestability
- Maturity provides a quicker silage option while maintaining high yield

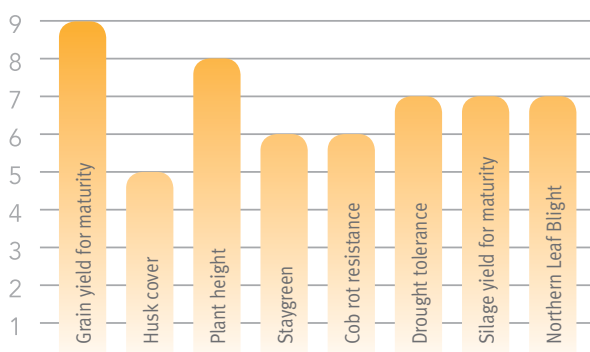
Recommended for regions



NEW



CRM94



Outstanding new quick dual purpose hybrid with high yield for maturity.

- Excellent agronomic profile
- Strong early growth and good stress tolerance
- Excellent quality silage with high grain content
- Outstanding grain yield for maturity

Recommended for regions



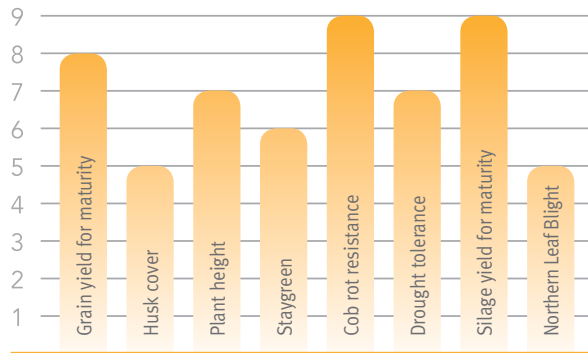
MID SEASON hybrids

QUICK/SHORT SEASON hybrids

Pioneer® brand corn hybrids.



CRM114



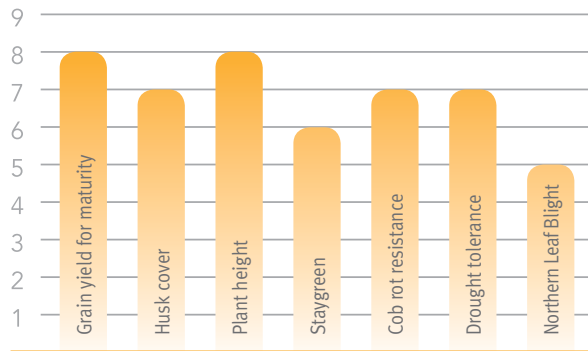
Exciting high yielding white hybrid

- Excellent yield for maturity
- High yield potential
- Very good standability
- Excellent cob rot resistance
- Grow under contract to end users
- Crop isolation is critical
- **Contact Pioneer or Lachlan Commodities (02 6851 2077) for contracting options**

Recommended for regions



CRM113



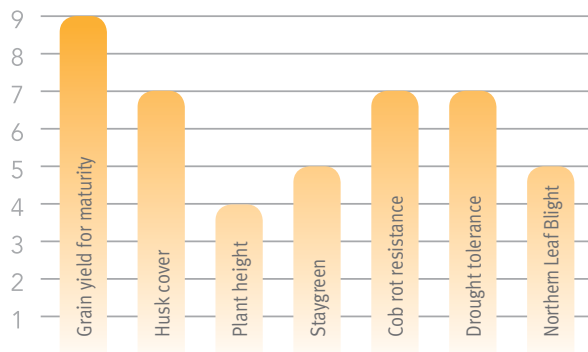
High yielding waxy hybrid

- High yield for maturity
- Good staygreen, stress tolerance and stalk strength
- Waxy contract option (requires crop isolation to ensure grain purity)

Recommended for regions



CRM110



High yielding, quick waxy hybrid

- High yield potential – ideal for irrigation
- Very high yield for maturity
- Short plant stature, good husk cover
- Waxy contract option (requires crop isolation to ensure grain purity)

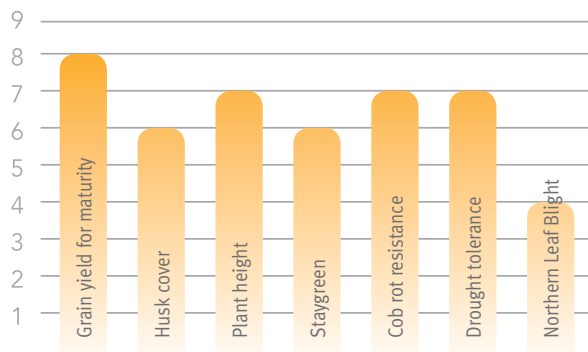
Recommended for regions



NEW



CRM114



New Waxy Hybrid.

- Consistent yield for maturity. Great for irrigation
- Good cob rot resistance, stress tolerance and stalk strength
- A new waxy hybrid for contract option (requires isolation to ensure grain purity)

Recommended for regions



SPECIALTY hybrids



Pioneer® brand corn hybrids: what people are saying.



Killara Feedlot near **Quirindi** grew new Pioneer® hybrid **P2307** as a planting partner to Pioneer hybrid 31H50 last season. Cropping manager **Steve Martin** said P2307 impressed with its strong growth, height and yields. The best block on the property last season was a 17 hectare area of P2307, grown with effluent irrigation, which produced an average yield of 26.91 DM t/ha.



A crop of corn which was planted after Christmas as an add-on last season produced high yields on the property of **Roger Morris** at 'Sweetacres', **Dalby** last season. Roger said the 46 hectare crop of Pioneer® hybrid **32P55** produced an average yield of 8 t/ha in an excellent result. A weigh-bin test taken on part of the block produced a yield of 8.35 t/ha.



A new processing type corn hybrid produced high yields in a promising debut on the RDS Farming property of **Kelsey and Scott Schelberg** at **Nobby**. An irrigated block of **P2080** gave an average yield of 13.27 t/ha in the highest yield ever produced on the property. Mr Schelberg said the hybrid also performed well throughout the season. "From a disease point of view P2080 looked very good," he said.



James Vince of **Lambrook Pastoral, Mullaley** in central New South Wales achieved 7.0 t/ha from a dryland crop of **P1813-IT** last season. It was the first crop of corn grown by Mr Vince, who chose P1813-IT to clean up a Johnston grass weed problem.



Corn is used for silage and grain on the Bligh family farm, 'Condamine Plains' at **Brookstead** on the central Darling Downs. **Hamish Bligh** said they planted more than 500 acres of corn each season and had made silage for a local feedlot in the past. In more recent years silage production has been replaced by grain. Last season was the first year **32P55** had been grown on the property and it produced an excellent yield of 13.60 t/ha.



Gino DeStefani of **Whyalla Feedlots** at **Texas** in southern Queensland said Pioneer® hybrid **P1813-IT** was planted last season for its yield potential and for grass weed control. Mr DeStefani said Lightning herbicide, which can be sprayed over IT corn hybrids, cleaned up the Johnson grass very well. The P1813-IT was harvested at approximately 28% moisture as high moisture grain and yielded around 12 t/ha.

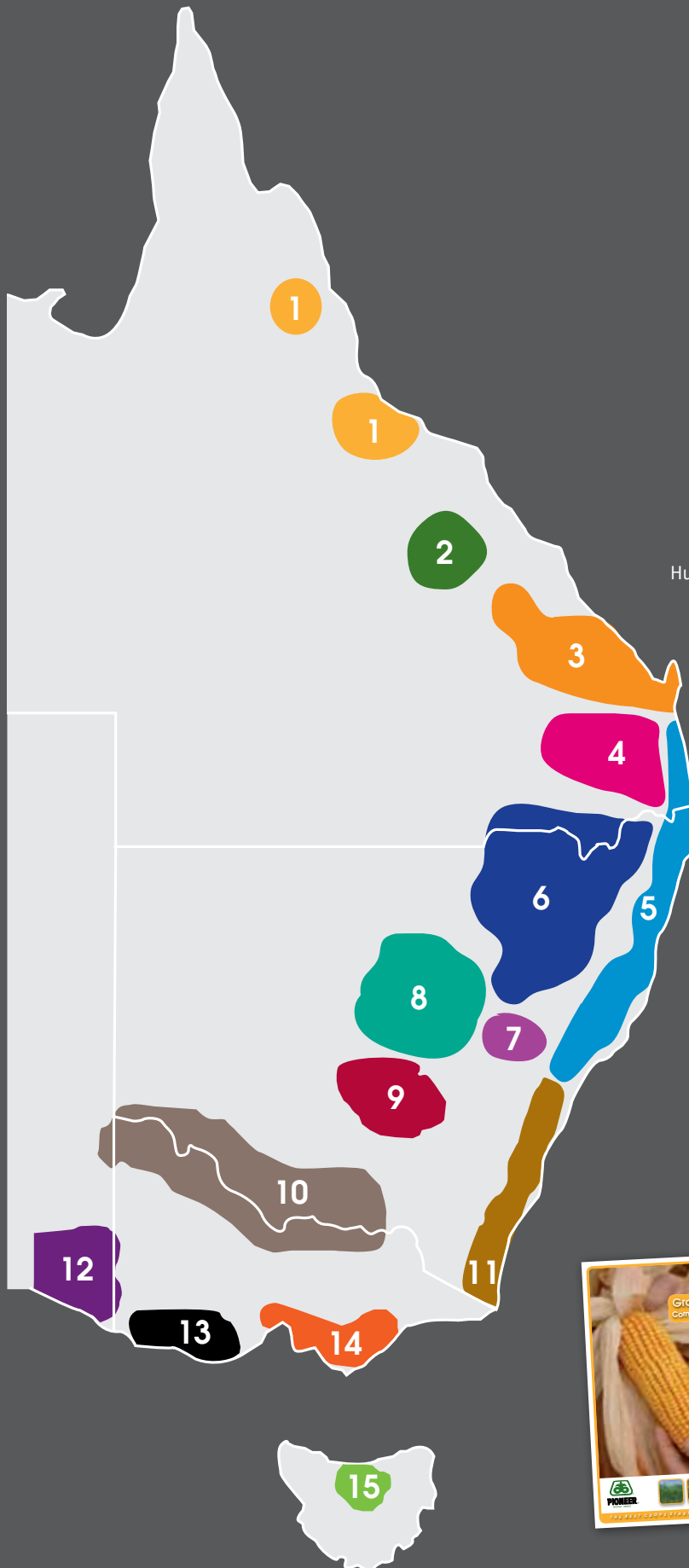


Bruce Derrick at **Kupunn** south-west of **Dalby** last season grew Pioneer® hybrids **31G66** and **32P55** last season. He said the yields of both were very pleasing, particularly considering the entire crop was inundated by hail just after it emerged from the ground. "It did well to go around that 10 t/ha mark," Mr Derrick said.



Corn has been an integral part of the summer crop rotation with cotton on the 'Benella' property of **Brett Crothers** at **Dalby** for more than a decade. "We always get a better crop of cotton after corn and vice versa," Mr Crothers said. Last season 100 hectares of Pioneer® hybrid **32P55** was planted. Brett estimated the corn produced an average of 12.35 t/ha over the entire crop.

Recommendations for corn growing regions.



| | |
|---|----|
| North Australia (includes North QLD, NT and WA) | 1 |
| Central Queensland | 2 |
| Wide Bay/Burnett | 3 |
| Darling Downs and Western Downs | 4 |
| South East Qld, North Coast NSW | 5 |
| Border Rivers and Northern NSW | 6 |
| Liverpool Plains | 7 |
| Central West NSW | 8 |
| Riverina | 9 |
| Northern Victoria/Southern NSW | 10 |
| Hunter Valley, Sydney Basin and southern coast of NSW | 11 |
| South East South Australia | 12 |
| Western Districts of Victoria | 13 |
| Gippsland | 14 |
| Northern Tasmania | 15 |

Establishment tips

- Plant when soil temperatures are 12°C and rising (optimum 15°C)
- Ensure even spacing between plants down the row to maximise yield
- Plant to avoid peak heat at flowering
- Plant on a full profile of moisture
- Use Betta Strike® treated seed for maximum seedling protection and performance.
- Ensure adequate seed depth into moisture to enable proper root growth and development.



Ask your local Pioneer area manager or Pioneer promoter for a copy of our Corn Growers Workshop, which gives a complete management guide for growing corn.

| Region | Optimum planting times | | Irrigated | Dryland | Silage | Processing (grits) | Processing (waxy) | Late plant | Clearfield® (grain or silage) | White |
|---|---|---------------------|--|-------------------------------------|---|----------------------------|--------------------------|--|-------------------------------|-------|
| | | | | | | | | | | |
| 1. North Australia (includes North QLD, NT and WA) | Mar to July | Nov to late-Jan | P1813-IT 32P55 P2307 | P1813-IT 32P55 P2308 | P1813-IT 32P55 P2309 | 32P55 | P1419E 34N41 33T39 | P2307 | P1813-IT | 33V62 |
| 2. Central Queensland | Aug to mid-Sept | mid-Jan to late-Feb | 32P55 P2080 P1813-IT | 32P55 P2080 P1813-IT | 32P55 P2080 P2307 | 32P55 P2080 | P1419E 34N41 33T39 | 32P55 P1813-IT P2080 | P1813-IT | 33V62 |
| 3. Wide Bay/Burnett | Late-Aug to mid-Oct | Late-Nov to mid-Jan | P1813-IT 32P55 34N43 P2080 | P1813-IT 32P55 P2080 | P1813-IT 32P55 P2307 P2080 | 32P55 P2080 | P1419E 34N41 33T39 | P1813-IT 32P55 P2307 | P1813-IT | 33V62 |
| 4. Darling Downs and Western Downs | Late-Aug to Oct | Late-Nov to mid-Jan | P1813-IT 32P55 34N43 P2080 | P1813-IT 32P55 34N43 P2080 | P1813-IT 32P55 P2307 P2080 | 32P55 P2080 | P1419E 34N41 33T39 | P1813-IT 32P55 P2307 34N43 P2080 | P1813-IT | 33V62 |
| 5. South East Qld, North Coast NSW | Sept to Oct | Dec to early-Jan | 32P55 P1813-IT P2307 P2080 | 32P55 P1813-IT P2307 P2080 | 32P55 P1813-IT P2307 P2080 | 32P55 P2307* P2080 | P1419E 34N41 33T39 | P2307 | P1813-IT | 33V62 |
| 6. Border Rivers and Northern NSW | Mid-Aug to late-Sept | Dec to early-Jan | 32P55 P1813-IT P2080 | 32P55 P1813-IT P2080 | P1813-IT 32P55 P2307 | 32P55 P2080 P2307 | P1419E 34N41 33T39 | 32P55 P1813-IT P2080 | P1813-IT | 33V62 |
| 7. Liverpool Plains | Mid-Sept to mid-Nov | | 34N43 32P55 P1813-IT P2080 | 34N43 32P55 P1813-IT P2080 | P2307 32P55 P1813-IT | 32P55 P2080 | P1419E 34N41 | 32P55 P1813-IT | P1813-IT | 33V62 |
| 8. Central West NSW | Sept to Oct | Dec to early-Jan | 32P55 P2080 P1813-IT 34N43 36Y84 | 36Y84 34N43 32P55 | P2307 32P55 P1813-IT | 32P55 P2080 | P1419E 34N41 33T39 | 34N43 P2080 | P1813-IT | 33V62 |
| 9. Riverina | Sept to Nov | | P1070 34N43 P1813-IT | 34N43 P1813-IT | 32P55 P1813-IT P2307 | 32P55 P1813-IT P2080 | P1419E 34N41 33T39 | 34N43 | P1813-IT | 33V62 |
| 10. Northern Victoria/Southern NSW | Oct to Nov (grain) Oct to Dec (silage) | | 32P55 34N43 36Y84 P9400 | - | 32P55 34N43 35A30 36Y84 P9400 | 32P55 | P1419E 34N41 33T39 | P9400 36Y84 35A30 | P1813-IT | - |
| 11. Hunter Valley, Sydney Basin and central and southern coast of NSW | Oct to Dec | | 32P55 P2307 36Y84 34N43 P1813-IT | 32P55 36Y84 | 32P55 P2307 P1813-IT | 32P55 P2080 | P1419E 34N41 33T39 | 33V15 | - | - |
| 12. South East – South Australia | Oct to mid-Dec | | 34N43 35A30 36Y84 | - | 34N43 35A30 36Y84 | - | - | P9400 | - | - |
| 13. Western Districts of Victoria | Oct to Dec | | 36Y84 P9400 | 36Y84 | 34N43 P9400 | - | - | P9400 | - | - |
| 14. Gippsland | Oct to Dec | | 34N43 36Y84 P9400 | 36Y84 P9400 | 35A30 36Y84 P9400 | - | - | P9400 | - | - |
| 15. Northern Tasmania | Oct to Dec | | P9400 | P9400 | P9400 | - | - | - | - | - |

* Gritting quality at the testing stage with various processors

Pioneer® brand corn hybrids for processing.

Kellogg's working with DuPont Pioneer to benefit industry

Major food manufacturer, Kellogg's is working closely with DuPont Pioneer to ensure new hybrids that provide high yields for farmers also meet specifications in their production process.

As part of the relationship between Pioneer and Kellogg's, Ms Raquel Epstein embarked on grower visits in southern Queensland and southern Riverina earlier this year.

"Farmers can be more confident that the product will perform in the field and be able to fill gritting contracts."

The success of the recent corn trip will ensure it will become an annual event.

"We have a great relationship with Pioneer breeders and this helps ensure the gritting corn released onto the market place had the qualities necessary to satisfy all parties," she said.

With greater involvement from the end users in the hybrid's development,

farmers can be more confident that the product will perform in the field and be able to fill gritting contracts.

Kellogg's quality assurance manager at the Kellogg Botany plant in New South Wales, Alastair Gilchrist, said almost all the corn delivered from the mills last season was Pioneer® hybrid 32P55.

He said they were quite happy with the quality of the grits made from 32P55 and it passed through the plant well to be made into Kellogg's corn flakes and other products.

The corn arrives from Allied and Defiance Mills in grit form and is then steamed and flattened to form the breakfast cereal flake.

He said the plant had also processed a smaller amount of grits from the new Pioneer® hybrid P2080.

P2080 is a new high yielding gritting hybrid currently being evaluated by Pioneer, the millers and Kellogg's and has shown a lot of promise.

"It was comparable with 32P55," Mr Gilchrist said. "The grit size looked even bigger which is good for us."

He said it was important for all stakeholders in the process to get the results from Kellogg's to ensure hybrids being released produce the right end results.

DuPont Pioneer working with industry to improve export markets

DuPont Pioneer is working with the maize industry to improve export opportunities for Australian corn into Asian markets.

Andrew Cogswell, from Lachlan Commodities in Forbes, New South Wales, said Pioneer staff were very helpful in assisting their company to continue to grow key overseas markets.

Lachlan Commodities is a major exporter corn into many Asian countries where it is utilised in the dry-milling, wet-milling and confectionary markets.

He said the plan in the immediate future was to expand the volume of corn exported from Australia into bulk shipments rather than container loads.

"We need to bulk up production to really make something of the Australian corn industry," Mr Cogswell said.

"Pioneer is helping with that with their researchers having regular discussions with us about domestic and export needs."

He said Pioneer® hybrid 3153 was the major gritting corn used over many seasons, but had now been replaced in many cases with Pioneer® hybrid 32P55.

"They have been developing higher yielding varieties and 32P55 is certainly yielding very well.

"In Forbes last season we had one crop of 32P55 yield 17 t/ha on fallow ground. The yields from the Riverina this year were around 15 t/ha rather than 11 t/ha which has been the average in the past."

He said the cooler summer conditions and the abundance of irrigation water has made a major difference to the yield potential.

"Even under dryland or supplementary irrigation in Queensland the 32P55 yields were around 7 t/ha compared to 3.5 to 4 t/ha.

"It is a very good variety and working very well for growers. It is now the major variety for grit."

Pioneer® hybrid 31G66 and Pioneer® hybrid P1813-IT were the

two corn varieties packed into a 10,000 tonne shipment which went to Asia earlier in the year.

Mr Cogswell said it was sold into the soft yellow corn market and used in wet milling processes.

The processors extract and modify the starch and turn it into high-fructose corn syrup and also make items for the pharmaceutical industry.

"They have been developing higher yielding varieties and 32P55 is certainly yielding very well."

Lachlan Commodities have an exclusive arrangement with Pioneer for the Pioneer® hybrid 33V62 white corn.

Mr Cogswell said the white corn hybrid yielded well and also had good disease resistance, making it an ideal option for growers.

He said the grain harvested from 33V62 was sold to a number of end-users and made pet food, gluten-free flour and breakfast cereal.

"Overseas, some of the confectionary markets puff the white corn for snack foods. In the wet-milling process they also extract the starch and make a super-white starch."

Mr Cogswell said Asia was a major growth opportunity for Australian corn, and the plan was to increase exports to 200,000 tonnes of grain to that region in the future.

He said corn was growing more and more attractive as a viable summer crop in many areas of Australia and had been competing well with sorghum for yield and gross margins.



A recent corn processor trip helped to reinforce the three-way partnership between processors, end users and seed companies. Present were staff from Allied Mills, AWB, Kelloggs and Lachlan Commodities. They were joined by farmer co-operators, three executive members of the Maize Association of Australia, a Sydney-based journalist and representatives from DuPont Pioneer's promoter, sales and corn research teams.

The group attended an infield farm visit (pictured) designed to improve understanding of the business processes of other arms of the partnership and offered insight into hybrid development for their markets.

Outcomes from the activities showed all parties had positive sentiments towards **32P55** and that there was a strong interest in new **P2080**.

Co-operation important between maize industry participants

The importance of co-operation between seed companies and processors has been highlighted with better communication between the parties in recent years.

Allied Mills National Commodities Manager, Joshua Lawrence, said there had been changes throughout the industry in recent years.

He said it was important for processors like Allied Mills to have the ability to correctly evaluate hybrids prior to their commercial release.

In the past, some hybrids have been released onto the market and become popular options with farmers because of their high yields.

Processors have then had to evaluate those hybrids at the same time and provide feedback on their suitability or otherwise for the gritting market.

Mr Lawrence said they now met regularly with DuPont Pioneer to discuss new hybrid options coming through the system that could be suitable for processing.

He said at the start of the 2011-12 season they went through a range of data and identified a number of hybrids to be further evaluated during the year.

"Pioneer has been very good with going through the new hybrids and determining which ones would be best suited to our needs."

Among these options were Pioneer® hybrid P2080 and Pioneer® hybrid P1813-IT which were planted with Allied Mills contract growers.

At harvest the crops were processed in the Allied Mills plant at Picton, south-west of Sydney, and were also put through the Kellogg's plant at Botany.

Mr Lawrence said what their plant and the end users needed from a hybrid had changed in recent years.

"Our experience from the past is that we were looking at just a flinty-type hybrid," he said. "That is being challenged at the moment as more than grits come out of the process."

The outer part of the corn kernel is utilised in the making of grits which is then steamed and rolled into corn flakes.

Other parts of the corn kernel are also extracted and utilised for semolina, polenta and other corn-based foodstuffs.



Stacks of benefits. Stacks of yield.



Range of maturities

Dryland and irrigated options

Strong defensive traits such as standability,
disease resistance and cold start

Excellent yields

The right hybrid for every paddock

Consistent supply of top quality treated seed

ASK US
ABOUT OUR
SIX MONTH
CROP CREDIT
TERMS.

There are stacks of reasons why you should choose Pioneer® brand grain sorghum on your farm.

With so many benefits, it's easy to see why growing G series sorghum from Pioneer stacks up in more ways than one. What's more, with a consistent supply of top quality treated seed, you can be sure we've got the hybrid you want, when you want it.

For further information: call 07 4637 3600 or visit www.pioneer.com



Pioneer® brand grain sorghum hybrids.

High yield for quicker maturity

MEDIUM-QUICK MATURITY

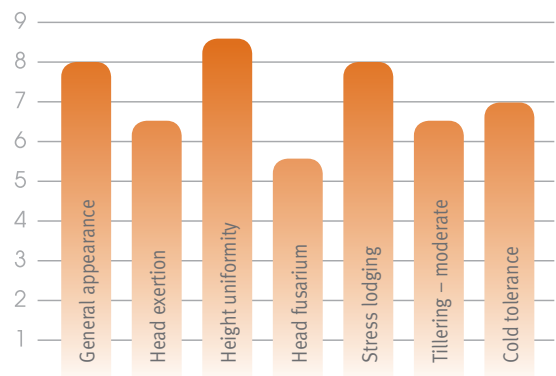


**NEW
IN 2012**

“**G33** is a very well adapted, high yielding hybrid across all environments. The hybrid has excellent height uniformity and is the shortest hybrid in the Pioneer stable.”

Ivan Calvert, Dupont Pioneer
Grain Sorghum Plant Breeder

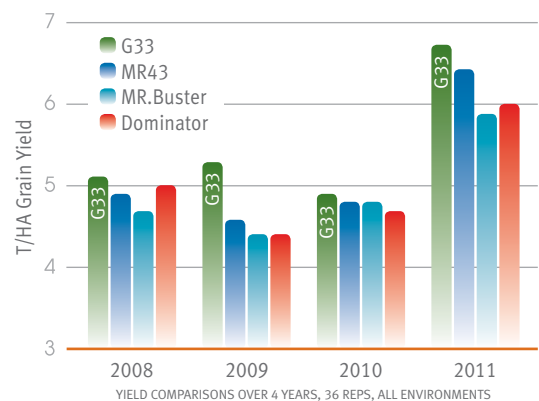
G33 DEFENSIVE TRAITS



G33 FEATURES

- An option for cold starts – high cold tolerance
- Mid/quick flowering with excellent yield for maturity
- Low staygreen for quick harvest drydown
- Very good grain size
- Red grain colour
- Short plant stature with a semi-open head type
- High top end yield with excellent standability
- Standard spray-out management applies

G33 TRIAL RESULTS



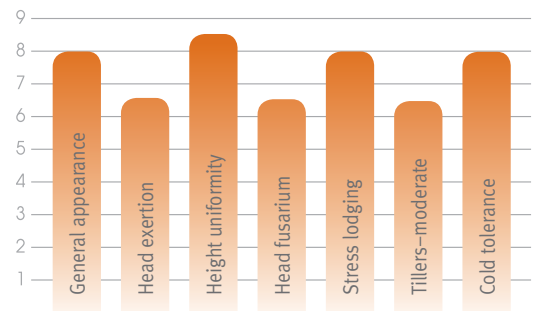
Pioneer® brand grain sorghum hybrids.

An even hybrid with high performance.

MEDIUM MATURITY



G22 DEFENSIVE TRAITS



G22 FEATURES

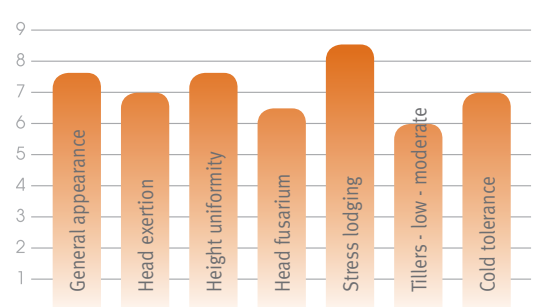
- Suitable for all growing districts, dryland and irrigation
- Excellent height uniformity
- Very good head length
- Good early start – high cold tolerance
- Low to moderate staygreen
- Very attractive bright orange grain
- Excellent standability
- Good grain size

Ideal for tough dryland country.

MEDIUM MATURITY



G99 DEFENSIVE TRAITS



G99 FEATURES

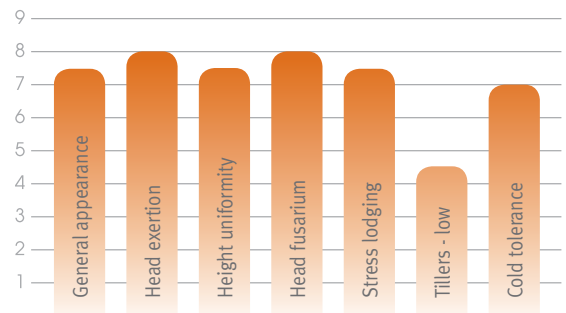
- Ideal for tough dryland
- Short stature and very even plant height
- Consistently large grain size, even under harsh conditions
- Moderate to high staygreen
- Attractive bright-red grain on an open head
- Exceptional cold tolerance
- Excellent standability
- Excellent grain size

The hybrid for all situations.

MEDIUM MATURITY



G56 DEFENSIVE TRAITS



G56 FEATURES

- Suitable for all growing districts
- Suitable for dryland and irrigation
- Suitable for all planting times:
 - Early season (excellent cold tolerance)
 - Main season
 - Late season (high midge rating)
- Medium height, low tillering hybrid
- Attractive bright-red grain on a semi-open head
- High staygreen (requiring specific sprayout management)
- Excellent standability
- Good grain size

DEFENSIVE TRAIT COMPARISON TABLE FOR NEW GENERATION SORGHUM HYBRIDS

| Agronomic description | G33 ^{NEW} | G22 | G56 | G99 |
|-----------------------|--------------------|----------|------|--------------|
| Maturity | M-Q | M | M | M |
| General appearance | 8.0 | 8.0 | 7.5 | 7.5 |
| Head exertion | 6.5 | 6.5 | 8.0 | 7.0 |
| Height uniformity | 8.5 | 8.5 | 7.5 | 7.5 |
| Head fusarium | 5.5 | 6.5 | 8.0 | 6.5 |
| Stress lodging | 8.0 | 8.0 | 7.5 | 8.5 |
| Midge resistance | 6 | 4 | 5 | 5 |
| Staygreen | low | low-mod | high | mod-high |
| Tillers | moderate | moderate | low | low-moderate |
| Grain size | very good | good | good | excellent |
| Cold tolerance | 7 | 8 | 7 | 7 |

1 = low/poor observation of trait 9 = high/strong observation of trait

Pioneer® brand grain sorghum hybrids: what people are saying.



G33 blew everything else away.

Ashley Schelberg at **Mount Tyson** on the Central Darling Downs grew new Pioneer® hybrid **G33** as part of a trial plot last season and was impressed when it topped the comparison with a yield in excess of 10 +/ha.

“It certainly out-yielded everything else,” he said.

G33 produced a yield of 10.22 t/ha, compared to Pioneer® hybrid G22 at 9.86 t/ha and Pioneer® hybrid G56 at 9.07 t/ha.

The trial was located beside a major road on the property and received a lot of attention from passers-by and a field day that was held at the site earlier in the season.

Mr Schelberg said the G33 produced a very even crop and was a bit shorter than the hybrids with which it was being compared.

“It looked good but I thought we’d see when the header gets here. It then blew everything else away.

“We’ll grab as much as we can next year.”

G33 out-yields MR.Buster.

Gordon Cook achieved excellent results with Pioneer® hybrid **G22** (7.4 t/ha), Pioneer® hybrid G56 (7.9 t/ha) and was also impressed by the new Pioneer® hybrid G33 which was included in a trial on his Macalister property on the Western Downs.

“G33 looks like it has potential,” Mr Cook said. “It looks to be every bit as good as G22.”

The new hybrid G33 was shorter in height than the other hybrids in the trial and was also a bit quicker in maturity.

It exhibited good drydown and stood strongly and its yield in the trial was higher than MR.Buster.

Mr Cook said one of the great advantages of Pioneer® brand hybrids was their ability to perform under cold and wet conditions early in the season.



Pioneer® hybrid **G22** excelled under cold-start conditions on the property of **David and Wayne Lobwein** at **Norwin** on the Darling Downs. David Lobwein said G22 “pounded through” the cold and wet October conditions. He said the G22 was the highest yielding sorghum they had ever harvested at 12 t/ha.



Roland and Ann Teakle of **Jondaryan** produced average yields of 8.65 t/ha over large areas of Pioneer® hybrids **G22** and **G99** grain sorghum.



Scott Chambers of **Bundella** on the Liverpool Plains won the Premer Shield last season with his crop of Pioneer® hybrid **G22**. “It look magnificent with good head size and exertion,” he said. Mr Chambers was also impressed with the cold tolerance of G22.



Rob Kingston of **Millmerran** grew Pioneer® hybrid **G22** last season which yielded an amazing 15 t/ha in a section of one paddock with the average yield was around 9 t/ha.



Tom Dunlop of **Coolah** took out the Coolah sorghum competition with Pioneer® hybrid **G22** which gave an average yield of 9.27 t/ha.



Doug Brown of **Dalby** said Pioneer® hybrid **G22** was very consistent last season yielding up to 12 t/ha in places and averaging 9 t/ha. He said standability was very good and the crop produced bright orange grain that made Sorghum 1.



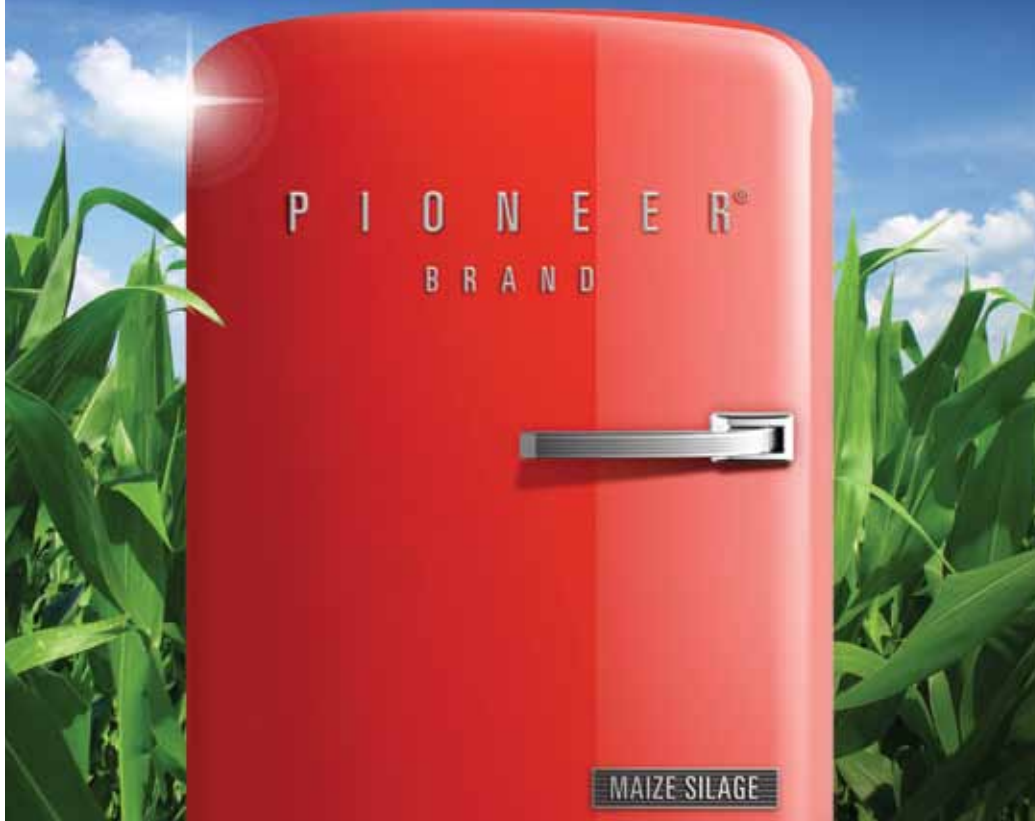
A range of Pioneer® brand grain sorghum hybrids produced high yields for **David Peters** near **Allora**. Mr Peters’ Pioneer® hybrid **G56** was the highest yielding hybrid at 8.65 t/ha.



Pioneer® hybrid **G22** is now the leading grain sorghum hybrid for **Peter Waters** of **Nandi near Dalby**. Last season G22 outyielded MR.Buster in two side-by-side trials. The farm average for G22 was 5.5 t/ha for back-to-back country and 6 t/ha for long fallow. Mr Waters said it was the second year in row that G22 had outyielded his traditional hybrids.

Pioneer® brand inoculants for high performance silage.

Keep it cool with Pioneer® brand maize silage inoculants.



| Product | 11CFT | 11C33 |
|------------------------------|---|--|
| Action | Improved fermentation, aerobic stability and improved fibre digestibility. Contains unique Pioneer strain of <i>L. buchneri</i> . | Improved fermentation and aerobic stability. Contains unique Pioneer strains of <i>L. buchneri</i> . |
| Crop | Maize | Maize |
| Fully researched and proven | ✓ | ✓ |
| ISO 9002 accredited | ✓ | ✓ |
| Improved fermentation | ✓ | ✓ |
| Aerobic stability | ✓ | ✓ |
| Improved fibre digestibility | ✓ | |



Lock in the nutrients with Pioneer[®] brand pasture silage inoculants.

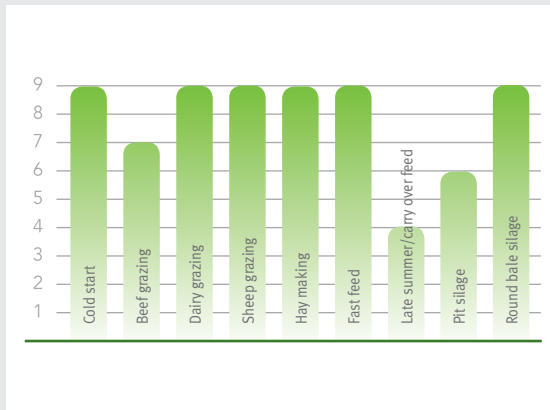
| 1127 | 11G22 | 1174 |
|-------------------------|---|--|
| Improving fermentation. | Improving fermentation and aerobic stability. Contains unique Pioneer strains of <i>L. buchneri</i> . | Improving fermentation. |
| Pasture and cereal | Pasture and cereal | Multicrop. For use on cereal, pasture, maize, clover, lucerne, canola. |
| ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ |
| | ✓ | |
| | | |

Pioneer® brand forage sorghum hybrids: Quality feed for grazing, hay or silage.

| HYBRID | | BETTA GRAZE | MEGA SWEET | GRAZE-N-SILE |
|-------------------|------------------------------|--|--|--|
| Special comments | | Best cold tolerance – first to plant | Grain-bearing: feed value increases with maturity | For pit silage |
| Planting rate | Marginal dryland | 2 to 10 kg/ha | 2 to 4 kg/ha | 50-70,000 seeds/ha |
| | Good dryland | 5 to 25 kg/ha | 5 to 6 kg/ha | 75-100,000 seeds/ha |
| | Irrigation and coastal | 10 to 30 kg/ha | 8 to 12 kg/ha | 100-150,000 seeds/ha |
| Hybrid management | Level of required management | Strict management is required to realise full genetic potential and quality. Graze early and often | Most flexible. Maintains maximum quality and is attractive to stock at any growth stage either early, mid or late season, as well as going into winter. | Precise management required for silage production in areas where corn is not an option. Similar management to growing grain sorghum. |
| | Grazing tips | High sugars, fine stems and higher digestibility allows for greater intake and better crop area utilisation – commitment to graze early and often (at 1 to 1.5 metres in plant height) | Good quality at any stage of growth, with feed value increasing with maturity. Ideal for grazing at any growth stage, especially late. Mega Sweet will set grain | From broadacre to 75 cm |
| | Row spacings | From broadacre to 75 cm | 75 to 100 cm rows suit crop and grain development | 20 to 100 cm |



4 = not recommended
 6 = recommended
 9 = highly recommended

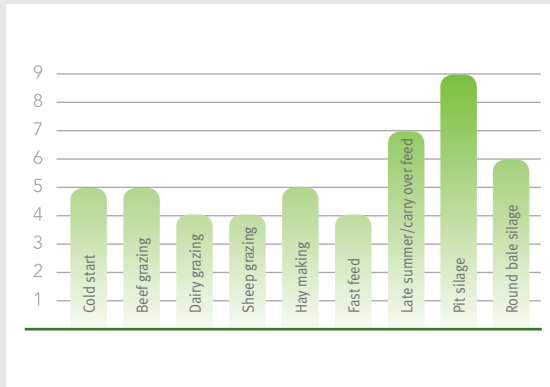


Fast to feed – first to plant, first to feed.

Excellent recovery from grazing or cutting, the fast growing nature of Betta Graze and its cold tolerance, mean it is the first forage sorghum you can plant and the first you can feed to any type of livestock. Betta Graze has high palatability and is highly suited to general grazing, hay production and round bale silage.

- Sorghum x Sudan grass
- Cold tolerant means fast early growth
- Responds well to heavy grazing or cutting with quick growth and an abundance of tillers
- High sugar content
- Fine stems and disease-free leaves

FAST TO feed

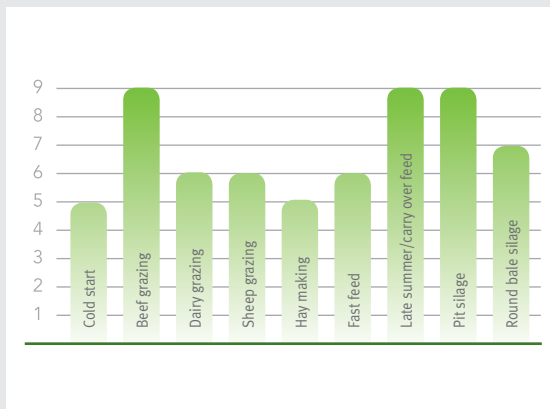


The best choice for pit silage production.

Graze-N-Sile is a tall, grain-bearing forage sorghum hybrid. These unique attributes mean Graze-N-Sile produces high quantities of silage with high energy content. Graze-N-Sile is the ideal substitute for maize silage in dryland areas or in limited irrigation situations.

- Sorghum x sorghum hybrid
- Ideal for pit silage
- More stress tolerant than corn
- Grain yields similar to grain sorghum hybrids (do not direct harvest like grain sorghum)

PIT SILAGE production



The flexible forage sorghum.

Mega Sweet is attractive to stock at any stage of growth and increases its feed value and sweetness as it matures. Mega Sweet can be planted early in the season mid season, or late season for late summer and carry-over feed. Mega Sweet can be used for grazing or quality silage production but should be your first choice for grazing cattle. It is especially suited to beef enterprises and can give exceptional weight gains.

- Sweet sorghum x grain sorghum hybrid
- Grain-bearing
- High sugar content
- Feed value increases with maturity
- Highly flexible: can be planted early, mid-season or late
- Ideal for beef grazing, late summer/carry-over feed and silage

FLEXIBLE forage sorghum



Betta Strike® seed treatment from Pioneer is the superhero for your corn and sorghum seed. Betta Strike® is a premium blend of insecticide and fungicide promoting fast, even emergence and high early vigour. Betta Strike® helps your crop fight the evils of seedling pests and diseases and makes the best corn and sorghum seed even better.

That's the power of Betta Strike®, only from Pioneer.

For more information call your local Pioneer area manager or visit pioneer.com



The importance of using Betta Strike® treated seed.

Research has consistently shown that establishing the right plant population is critical for achieving maximum yields. In corn particularly, an even plant stand is vital for a crop to reach its genetic yield potential.

Betta Strike® treated corn and grain sorghum seed from Dupont Pioneer gives you the best chance of an optimum plant stand by protecting your investment in seed from seedling pests and diseases.

The benefits of Betta Strike® treated seed are:

- Precise amount of insecticide and fungicide applied to every seed
- The latest crop protection products that reliably perform and protect your seedling crop from pests and diseases
- Applied at a low dose for minimal impact on the environment
- Delivers a high degree of seed safety to the planter operator

PIONEER SEED TREATMENTS FOR GRAIN SORGHUM

| | |
|--------------------|--|
| Betta Strike® | Premium blend of fungicide and insecticide |
| Betta Strike® Plus | Premium blend of fungicide and insecticide plus Concep® II herbicide safener |

PIONEER SEED TREATMENTS FOR CORN

| | |
|---------------|--|
| Basic | Fungicide only |
| Betta Strike® | Premium blend of fungicide and insecticide |

DuPont Pioneer introduces STRIKE trials

This year DuPont Pioneer is introducing a new on-farm trialling program aimed at increasing the amount and quality of yield and agronomic data available for growers, agronomists and consultants so they can make better decisions on which corn and sorghum hybrids to grow or recommend.

STRIKE stands for Seed Technology Research In Key Environments and will be an intensively managed program with research staff planting and collecting data from test sites.

The STRIKE trials replaces the current Product Advancement Trials (PAT). The on-farm STRIKE sites will include both large-scale demonstrations and smaller-plot replicated trials.

One of the main benefits of the STRIKE is that it will allow an increased number of hybrids to be tested over more sites and years providing around 150 sets of data for each hybrid by the time it is commercialised. The STRIKE trials will also include comparisons with the leading competitor hybrids from other seed companies.



STRIKE will provide Pioneer with better information on product advancement but the key aim of the program is to give decision-makers, such as growers, agronomists and consultants, more reliable yield results and other agronomic characteristics about Pioneer® brand hybrids.

For more information or for the location of your nearest STRIKE trial site, please contact your local area manager or Pioneer promoter.

STRIKE stands for Seed Technology Research In Key Environments and will be an intensively managed program with research staff planting and collecting data from test sites.



**Download your FREE
DuPont Pioneer app today!**

Club Pioneer

We reward our loyal customers.

As a loyal customer, you deserve preferential treatment and a range of benefits and rewards. That's why becoming a Club Pioneer member offers you many advantages and it's free to join.

Enjoy the benefits.

Club Pioneer members receive EXCLUSIVE access to:

- Unparalleled agronomic support
- Pioneer Crop Credit
- Automatic entry into any Pioneer promotions
- Club Pioneer newsletter

Club Pioneer members will also be among the first to try our new hybrids.

Rewards program points

| Pioneer product or service to Pioneer | Unit | Points per unit |
|--|-------------|-----------------|
| Forage sorghum (basic) | Bag | 10 |
| Forage sorghum (Beta Strike® or Beta Strike® Plus) | Bag | 15 |
| Grain sorghum (basic) | Bag | 15 |
| Grain sorghum (Beta Strike® or Beta Strike® Plus) | Bag | 20 |
| Corn (basic) | Bag | 20 |
| Corn (Beta Strike®) | Bag | 25 |
| Canola variety (Beta Strike® or Beta Strike® Plus) | Bag | 25 |
| Canola hybrid – Clearfield® (Beta Strike® or Beta Strike® Plus) | Bag | 35 |
| Canola hybrid – Roundup Ready® (Beta Strike® or Beta Strike® Plus) | Bag | 40 |
| Product testimonial (published) | Testimonial | 250 |
| Side-by-side trial co-operator | Trial | 500 |
| Field day host | Field day | 500 |
| Strike trial co-operator | Trial | 5000 |
| Research trial co-operator | Year | 5000 |
| Summer crop production partner (fixed contract) | Season | 2000 |
| Summer crop production partner (commercial) | Season | 5000 |
| Winter crop production partner (fixed contract) | Season | 2000 |
| Winter crop production partner (commercial) | Season | 5000 |
| 11C33, 11G22, inoculant – 50 mt bottle | Bottle | 15 |
| 11C33, 11G22 inoculant – 250 mt bottle | Bottle | 60 |
| 1132, 1127, 1174 inoculant – 50 mt bottle | Bottle | 10 |
| 1132, 1127, 1174 inoculant – 250 mt bottle | Bottle | 35 |

Grow your Pioneer points.

The more Pioneer® brand seed you plant or Pioneer® brand inoculants you use, the more Pioneer points you get. We greatly value co-operating farmers so there are points rewards for growers with Pioneer trials or seed production blocks, who host field days or provide us with product testimonials.

For every 500 points you collect, you will be rewarded with \$50 direct-deposited into your bank account.

If you collect 100,000 points you can choose a one-week tour of the US, including Pioneer's headquarters and world-class corn research facility in Des Moines, Iowa or a one-week tour of Canada to see Pioneer's world-leading canola operation.

Visit the Club Pioneer pages at pioneer.com for more information and to register.

