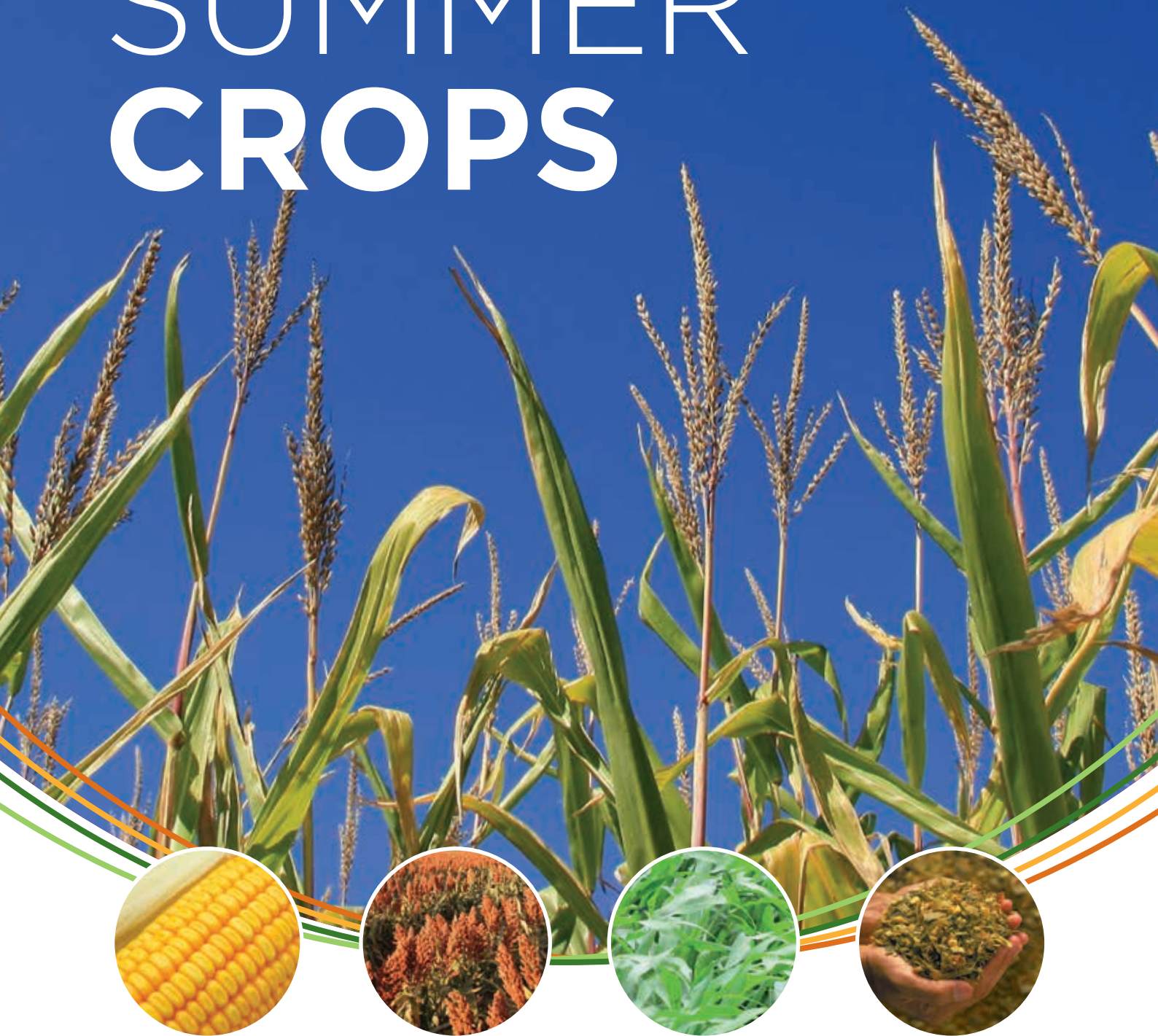


SUMMER CROPS



2013|2014

CORN
GRAIN SORGHUM
FORAGE SORGHUM
INOCULANTS

DU PONT



PIONEER

WELCOME TO THE 2013/2014 SEASON

Dear Valued Customer,

Welcome to the 2013 DuPont Pioneer summer crop brochure. We hope you had a successful season last year and our aim this year is to once again help you top those results.

While strong demand for summer grain and oilseeds continues to grow, we are all too aware of the many pressures that can throw everything off balance. Our role in this, as it's always been, is to continue to deliver genetic gains and agronomic performance with our proven and new elite hybrids to ensure no matter what market or climatic pressures are thrown at you, your position is a successful and profitable one.

This year is the first time we have published trial data from our STRIKE (Seed Technology Research In Key Environments) trialling programme which was introduced last year and these results – the averages from more local testing sites and data points than we have ever used before – will provide you with comprehensive performance information. Within Pioneer we have also been benefiting from STRIKE, with the program greatly assisting our product advancement teams to identify the best candidates for commercialisation.

STRIKE isn't a trial programme that we can manipulate to tell you what we want you to hear and you won't find results listed in this brochure that don't reflect what's happening in reality. That's because we test in so many locations so you can be confident that our products have been

'STRIKE-tested' in your region. We also don't just test in the best conditions, we're looking to try and characterise products suited to all environments. Most importantly we look for uniform sites, to eliminate the variables so every product can perform on its own merits. Getting STRIKE right is integral for us, because it shapes how we position hybrids and what hybrids we advance and it's integral for you, because it helps you get the right product in the right paddock.

Most importantly STRIKE represents our commitment to our Long Look values; we deal with you honestly and fairly and while we may advertise and sell our products vigorously we will not misrepresent them. Pioneer's Long Look principles have been in place since 1952 and will always be the cornerstone of the way Pioneer does business.

This year we have a very strong line-up of proven and new elite hybrids. Our corn range offers a number of maturity options combined with excellent trait scores for disease resistance, staygreen and drought tolerance. We've got some very exciting new products with the highest yield results we have seen to date.

Our sorghum line-up continues to be our strongest yet and the testimonials reflect this. The sorghum STRIKE results are certainly representative of what's happening on many farms with Pioneer® hybrids G33 and G22 becoming the varieties that others are now benchmarking against.

We've added to our forage sorghum range with new Pioneer® hybrid SSS, a unique product that was bred in Australia for Australian conditions. The full forage range now offers a range of quality supplementary feed options. Rounding this out is our unique silage inoculant product range, which help you get the most milk or meat from your livestock.

The Pioneer purpose has always been that of a supportive partner. We strive to produce the best products on the market, we will deal honestly and fairly with you and we are here to assist you in making the greatest possible profit from our products. We aim to continually demonstrate this to you and we appreciate your business and look forward to helping you achieve a successful season.

All the best for 2013,
Peter Kleinhans
Managing Director
DuPont Pioneer Australia




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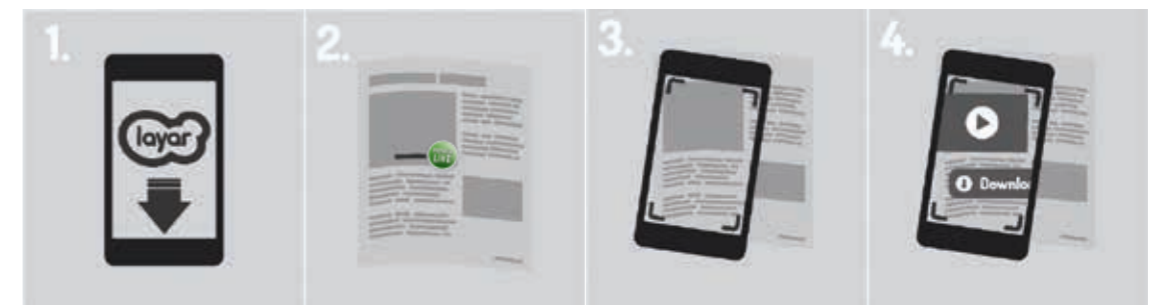
MORE INFORMATION AT YOUR FINGERTIPS

The 'Pioneer Live' button seen throughout the pages of this brochure indicates that extra digital information is available via your smartphone or tablet.

Simply scan the page you're interested in with the 'Layar' app you have downloaded, and you immediately have access to further or in-depth information.



How to use 'Pioneer Live'.



1. Download the free 'Layar' app.

2. Scan a page with the 'Pioneer Live' logo.

3. Discover the interactive content.

TRAIT CHARACTERISTICS NOTES

- **GRAIN YIELD FOR MATURITY**
Valid to compare hybrids of a similar maturity (CRM). (+ or - 4 CRM)
9 = High grain yield for the CRM
- **HUSK COVER**
Measures the length and tightness of the husk cover.
9 = Complete coverage of grain through to harvest
- **PLANT HEIGHT**
9 = Tall 1 = Short
- **COB ROT RESISTANCE**
9 = Shows no symptoms of cob rot
- **DROUGHT TOLERANCE**
9 = Ability to handle hot dry stress conditions
- **NORTHERN LEAF BLIGHT**
9 = Completely free of NLB
- **SILAGE YIELD FOR MATURITY**
Valid to compare hybrids of a similar maturity (CRM). (+ or - 4 CRM)
9 = High silage yield for maturity
- **STAYGREEN**
9 = Excellent ability to maintain green leaves during grain fill and good late season plant health.
- **READILY AVAILABLE ENERGY**
Relative comparison of the whole plant concentration of more readily available energy (primarily grain) among individual hybrids
9 = Very high grain content silage
- **WHOLE PLANT DIGESTIBILITY**
Whole plant digestibility percentage (DM basis) as predicted by NIR.
9 = Very high whole plant digestibility.



HYBRIDS



P1756	32P55	P9400
P2307	P1467	33V62
P1813-IT	P1070	34N41
P2080	P0021	P1419E

CORN/MAIZE

NEW IN 2014

FULL SEASON P1756

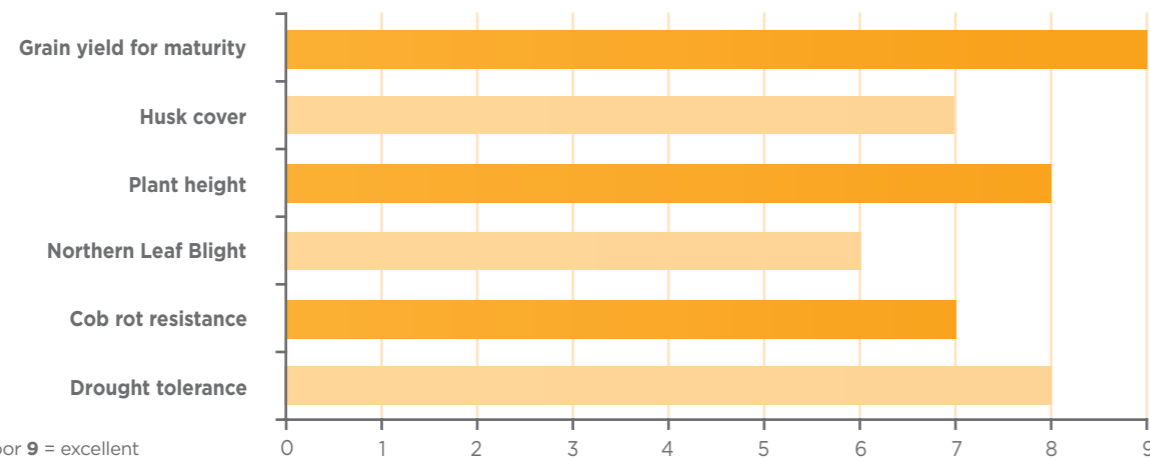
CRM 117

THE NEXT GENERATION PIONEER® BRAND GRITTING HYBRID. TRIALS HAVE PROVEN IT IS THE HIGHEST YIELDING PROCESSING HYBRID IN AUSTRALIA.

Best uses: Processing hybrid (grit, feed, silage)

- The highest yielding processing hybrid in Australia
- A unique Australian-bred corn developed for processing markets
- Suitable for irrigation or dryland
- Good disease tolerance
- Excellent stalk strength
- High quality grain
- Suited for early or late plant in most regions

Recommended for regions



RATING: 1 = poor 9 = excellent

Allocation only in 2013

“EXCITING NEW PROCESSING QUALITY HYBRID WITH EXCELLENT YIELD PERFORMANCE”

Steve Wilson, DuPont Pioneer Corn Research Manager



COMMENTS

RECOMMENDED

FULL SEASON P2307

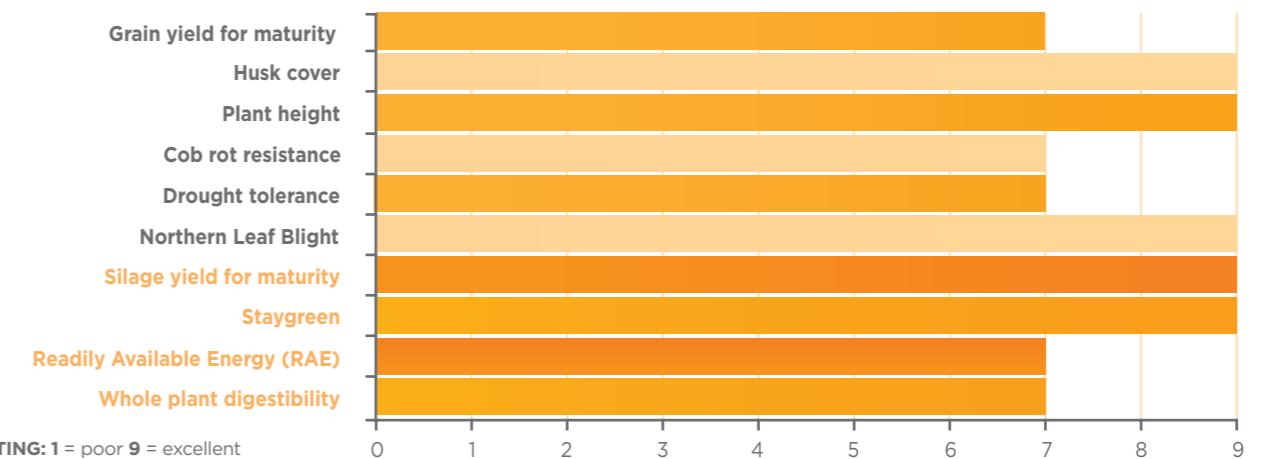
CRM 123

FULL SEASON SILAGE AND COASTAL GRAIN SPECIALIST.

Best uses: Silage and grain

- 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 as well as high yielding silage production areas

Recommended for regions



RATING: 1 = poor 9 = excellent

Ben Johns, Katanya Farming property Jondaryan, Darling Downs, QLD.

Average irrigated silage yield: 21 tonnes per acre (51.7 tonnes per hectare) - 15 tonnes per acre (37 tonnes per hectare) in newly developed country.

A niche market supplying silage for a nearby feedlot has meant corn is the major crop grown on the Johns family property.

This season the Pioneer® hybrid P2307 was planted to the entire area.

“The previous year it was the best performer,” Mr Johns said. “It was good to see the new varieties out-perform the old ones.”

P2307 was pitted against the Pioneer® hybrid 31H50 and a Pacific Seed hybrid and was clearly the leading corn.

“It definitely came out higher in yield and was a bit taller and had a nice big cob,” he said. “It just looked better all round.”

Each year the target yield for the corn silage is 20 tonnes per acre (49.4 tonnes per hectare) on the property.



COMMENTS

RECOMMENDED

FULL SEASON P1813-IT

CRM 118

TOP END YIELD FROM AN IT HYBRID.

Best uses: Feed grain, silage and processing (grit*)

- 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

Recommended for regions



*Under evaluation by end users



FULL SEASON P2080

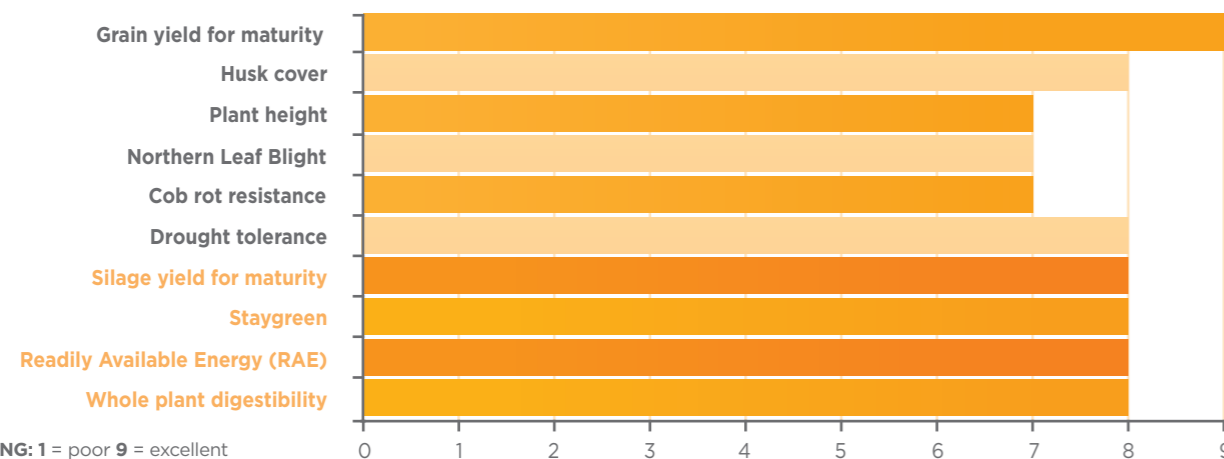
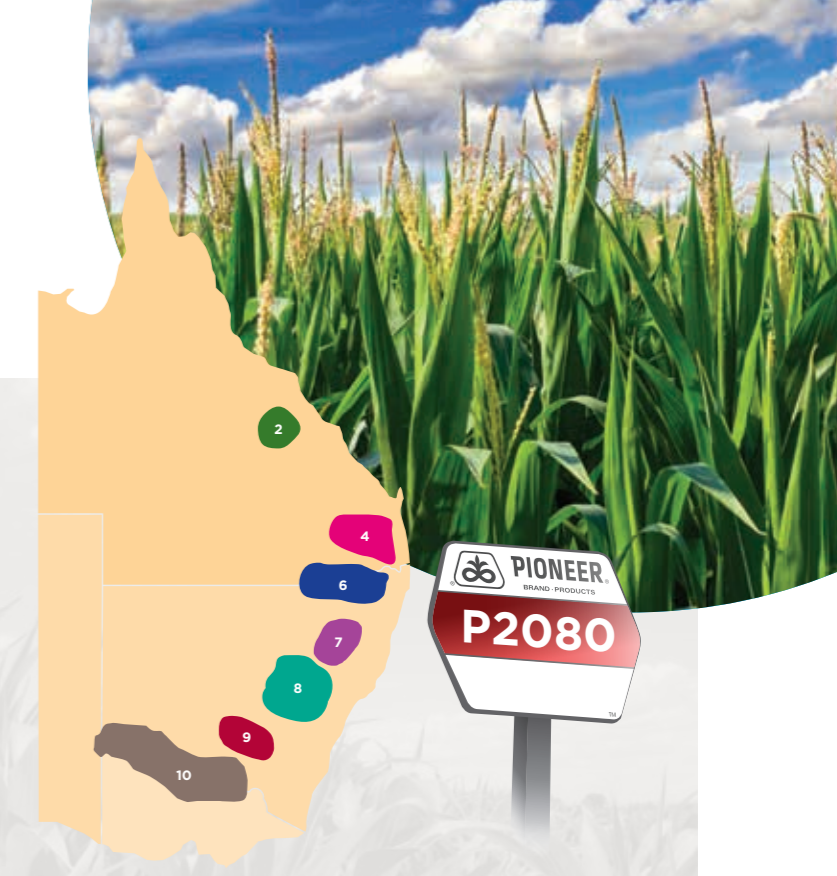
CRM 120

VERY HIGH YIELDING PROCESSING HYBRID.

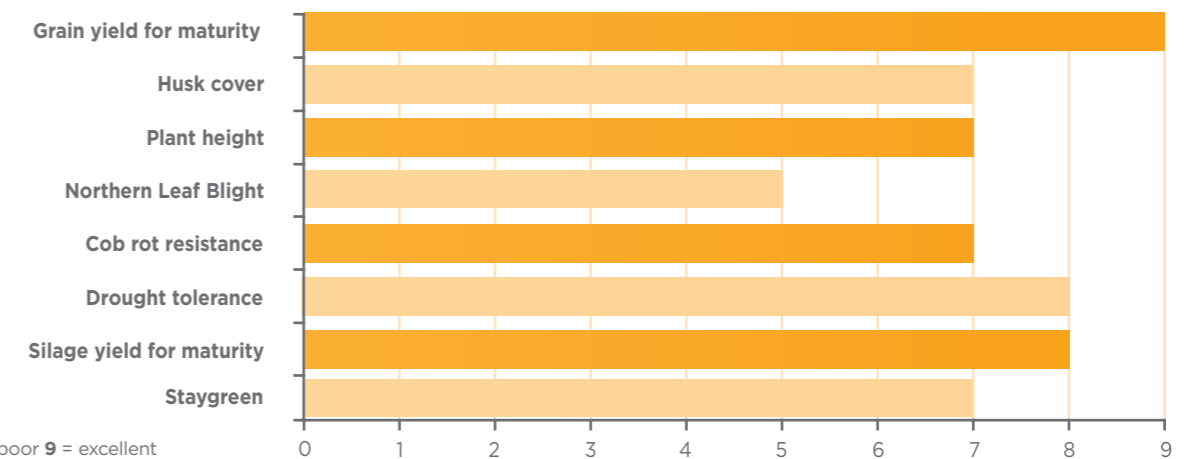
Best uses: Processing

- Very high yielding with outstanding grain quality
- 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 2013/2014 season
- Accepted by Allied Mills in 2012

Recommended for regions



RATING: 1 = poor 9 = excellent



RATING: 1 = poor 9 = excellent

Russell and Damien Clapham, Brookstead Central Darling Downs, QLD.
Average irrigated yield: 5.2-5.3 tonnes per acre (12.7-12.8 tonnes per hectare)

Mr Clapham said the Pioneer® hybrid P1813-IT yielded very well and produced an excellent result in a challenging season.

A combination of factors assisted the high yields which included the hybrid choice, overhead irrigation and zero-tilling the seed directly into soybean stubble from the previous summer.

"There were a few things that we hadn't

been able to do before. It was a crop that really grew well. If you are going for that sort of yield you really have to get the spacing right. It was just unbelievable. There were no doubles."

He said the entire P1813-IT block consisted of more than 80 hectares.

"There was not a lot of difference between the whole paddock," he said. "It certainly can yield."

Mr Clapham said the grain quality of P1813-IT was also very good and seemed a superior option to other corn hybrids grown in the past.

"It looks a bit better than a normal feed corn."



COMMENTS

RECOMMENDED

Byron Birch, Rimanui Farms Boonaldoon property of Rimanui Farms, west of Moree, NSW.

Corn planted at the start of spring which had very little in-crop rainfall surprised by still producing grain on the "Boonaldoon" property of Byron Birch, of Rimanui Farms.

The corn was planted in late August just as the soil temperatures reached 12 degrees Celsius.

"Two days after we had 10mm of rain but nothing after that," he said.

In conditions which included a lot of heat at various stages of the season, the corn responded well.

Pioneer® hybrid 32P55 and Pioneer® hybrid P2080 were the corn types used and they were planted using a John Deere MaxEmerge seeder into 1.5 metre row spacings.

The dryland block grew an average of 2.3 plants per square metre after being planted at four seeds per linear metre.

Mr Birch said the two hybrids ended up with a similar yield with P2080 putting out a small second cob on some of the plants which produced enough grain to bring the yield up to that of the 32P55.



COMMENTS

RECOMMENDED

MID SEASON 32P55

CRM 114

HIGH YIELDING HYBRID FOR FEED GRAIN, SILAGE OR PROCESSING.

Best uses: Processing, export feed grain and silage

- A unique Australian-bred hybrid developed for the processing market (milling, grits and corn chips)
- High yielding: Out-yields all other mid season 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



NEW

MID SEASON P1467

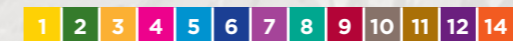
CRM 114

A NEW TOP END YIELD FEED CORN.

Best uses: Feed grain and silage

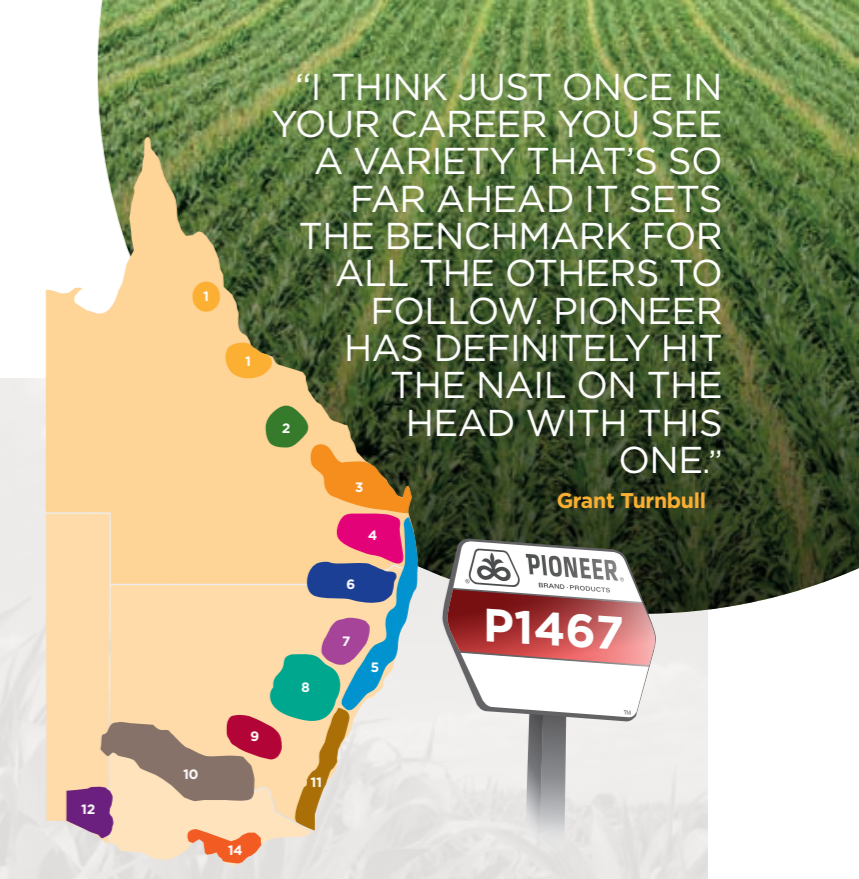
- Our highest yielding feed hybrid
- Replacing 31G66
- A great trait combination of stalk strength/drought tolerance and staygreen/cob rot resistance

Recommended for regions



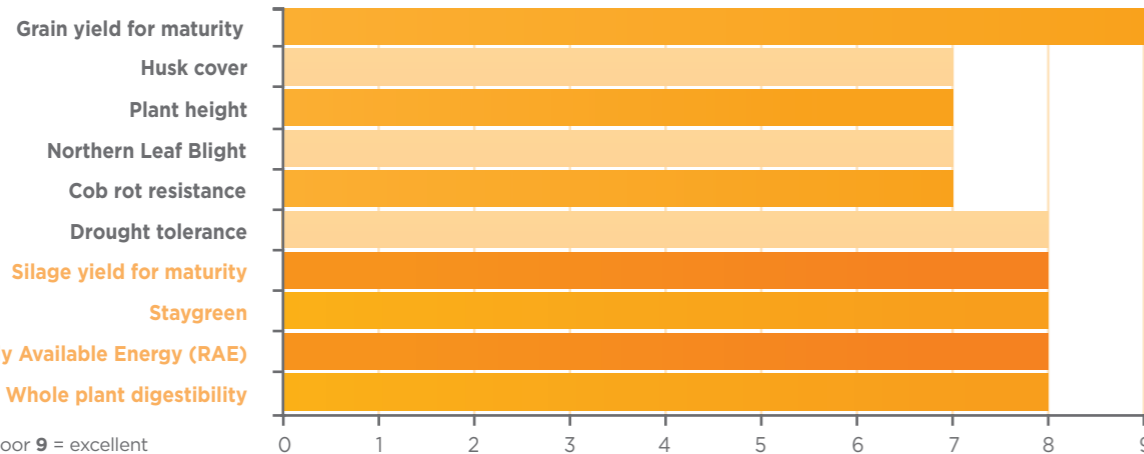
"ONE OF THE HIGHEST YIELDING, MOST CONSISTENT HYBRIDS WE HAVE EVER TESTED"

Steve Wilson, DuPont Pioneer Corn Research Manager



"I THINK JUST ONCE IN YOUR CAREER YOU SEE A VARIETY THAT'S SO FAR AHEAD IT SETS THE BENCHMARK FOR ALL THE OTHERS TO FOLLOW. PIONEER HAS DEFINITELY HIT THE NAIL ON THE HEAD WITH THIS ONE."

Grant Turnbull



RATING: 1 = poor 9 = excellent

James Hayllor, Hayllor property Dalby, QLD.

Average irrigated yield: 5.75 tonnes per acre (14.15 tonnes per hectare)

James Hayllor said they made it their mission to look after the crop and they were rewarded with a very good result.

The Pioneer® hybrid 32P55 was planted to 71 hectares in one area and 22 hectares in another.

"It came up beautifully and just didn't look back," he said. "It was very nice to get that type of yield."

It was the first time 32P55 had been grown on the property and the hybrid impressed with its performance across

the entire season. After showing good emergence and early vigour, the crop produced large cobs of high quality grain and dried down quickly.

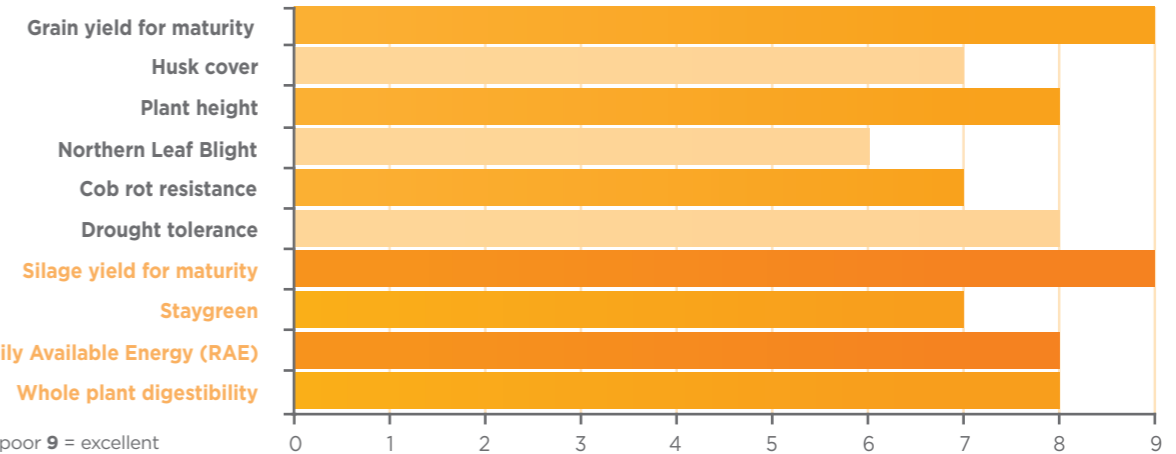
He said the corn worked particularly well in rotation with cotton and they had experienced superior cotton crops following corn with extra yields of up to one bale per hectare.

INTERESTED IN CORN IN A COTTON ROTATION? WWW.PIONEER.COM HAS THE LATEST RESEARCH RESULTS FROM NSW DPI



COMMENTS

RECOMMENDED



RATING: 1 = poor 9 = excellent

Grant Turnbull, "Buckie Station" West of Croppa Creek, Northern NSW.

Average dryland yield: 2 tonnes per acre (5 tonnes per hectare)

Mr Turnbull said in a late planted trial harvested in 2012, the Pioneer® hybrid P1467 yielded almost double that of its nearest competitor.

"It was a fairly good summer and I thought I'd like to have a crack at it when conditions were a bit ordinary. To me, that is the real test."

That test came the following season when the corn was planted in late August and survived through severe heat during the growing period.

At harvest, some areas of the P1467 hybrid were yielding up to 5 tonnes per hectare while another hybrid alongside was back to 3 tonnes per hectare.

"I've never seen anything like that" Mr Turnbull said. "We've had two very diverse seasons and it has been ahead in leaps and bounds. We've definitely had the two ends of the spectrum."

Following the success of the P1467 it will become the main hybrid grown this season.

"It doesn't look any different but the cobs are just phenomenal," Mr Turnbull said.



COMMENTS

RECOMMENDED

NEW

MID SEASON P1070

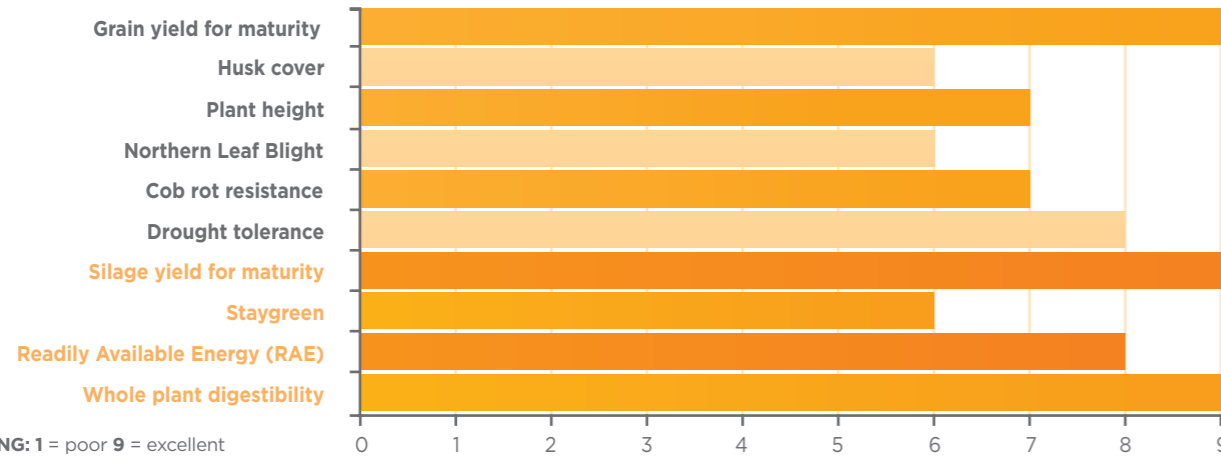
CRM 110

YIELD FOR QUICKER MATURITY.

Best uses: Feed and grain silage

- Replacement for 34N43 and 35A30
- Good husk cover
- Strong cob rot resistance and drought tolerance
- Excellent top end yield for its maturity

Recommended for regions



RATING: 1 = poor 9 = excellent

Michael Conway, "Athol Park" Jimbour, Queensland

Average irrigated yield: 3.11-3.19 tonnes per acre (7.7-7.9 tonnes per hectare)

The use of corn under dryland situations has proved an excellent alternative to sorghum for Mr Michael Conway. "In 2011-12 we were very happy with corn," he said. "I was pleasantly surprised."

In 2012-13 the main corn planted was the Pioneer® hybrid 32P55 and strips of Pioneer® hybrid P1467 and Pioneer® hybrid P1070 were also included as a comparison. Michael said the yields

from the trials were representative of the overall paddocks with the 100 acres producing between 190 and 195 tonnes of grain. Mr Conway said corn offered a range of benefits such as there was no need to spray the crop at all for insect pests and at harvest there wasn't any need to spray it with herbicide.

"It seems to soften the soil as well."

He said it was important to be able to store the grain after harvest to take advantage of prices on offer later in the year.

"GRAIN YIELD FOR MATURITY IS UNBEATABLE"

Steve Wilson, DuPont Pioneer Corn Research Manager



RECOMMENDED

COMMENTS

NEW

SHORT SEASON P0021

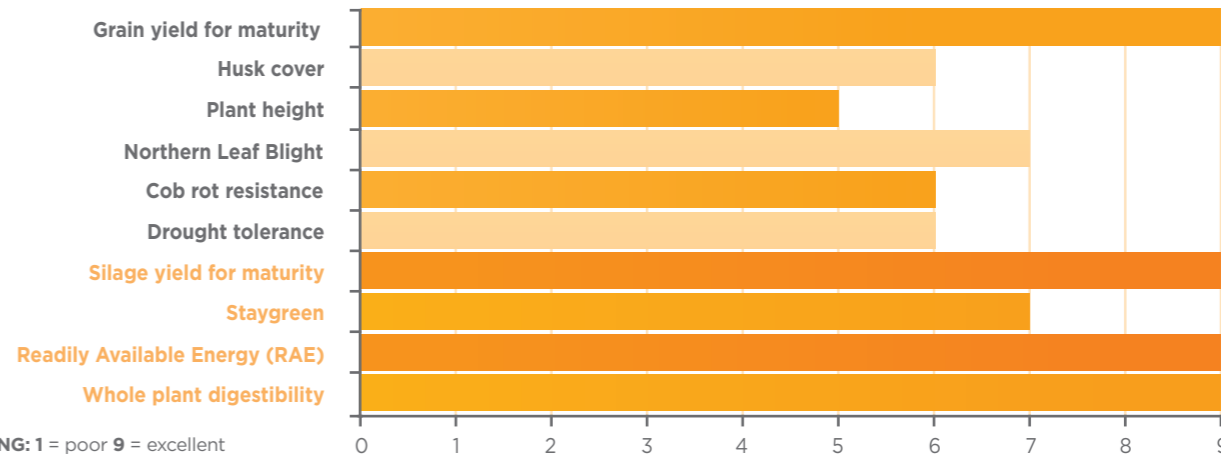
CRM 100

A NEW DUAL PURPOSE HYBRID.

Best uses: Feed grain and silage

- Outstanding grain and silage yield
- Excellent silage quality with superior energy and digestibility
- Good early growth
- Early maturity grain option
- Late season silage option

Recommended for regions



RATING: 1 = poor 9 = excellent

Callum Peace, Piangil Swan Hill, Victoria

Corn was a logical option for Callum Peace on his property at Piangil because it offered some advantages over other crops and also allowed him to utilise land throughout the year. Mr Peace chose the Pioneer® hybrid 36Y84 and the new Pioneer® hybrid P0021 this year.

"The gross margins are so good, and we can double-crop, so we can get two uses out of our infrastructure, and out of our country.

"The P0021 is notably higher and I think we are probably going to get a better yield off it as well," Mr Peace said.

He said the watering schedule meant P0021 emerged about two weeks behind the other hybrid, but had caught up within three to four weeks.

"It went from strength to strength."

"It is great to grow," Mr Peace said. You watch it grow. You go away for a week and come back and it has put on two foot. It is unbelievable.

"I reckon it is probably the easiest crop I grow, corn. Just make sure the water's right. We didn't have to spray once. Just drive past it every now and then and make sure it is still green, so it is a pretty relaxing crop, really. Especially on sub-surface, set and forget."



RECOMMENDED

COMMENTS

NEW
SHORT SEASON
P9400

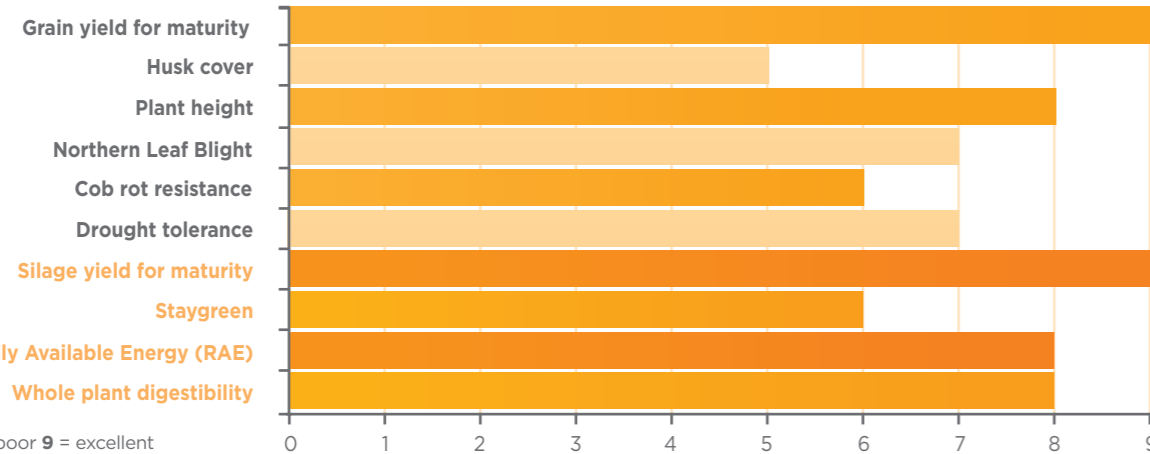
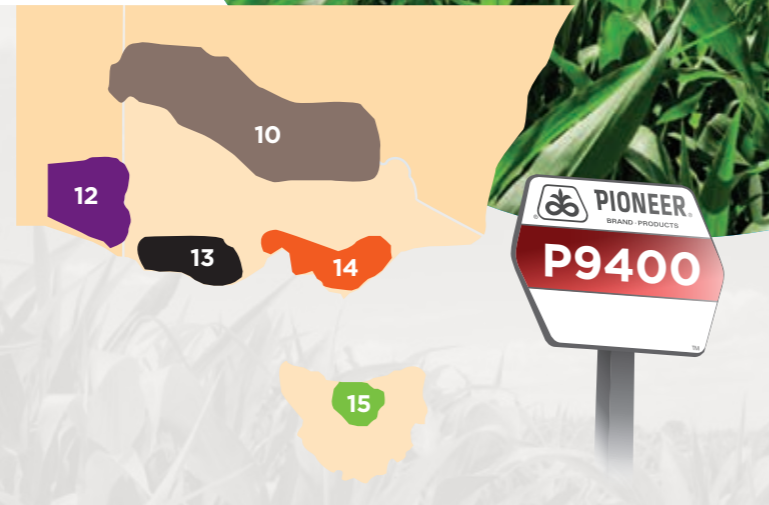
CRM 94

OUTSTANDING NEW QUICK DUAL PURPOSE HYBRID WITH HIGH YIELD FOR MATURITY.

Best uses: Feed and grain silage

- 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



RATING: 1 = poor 9 = excellent

Jake Coates, Allestree Western Districts, Victoria

Mr Coates milks 200 cows and was attracted to maize three years ago as a way of producing more home grown feed.

He said they were committed to producing as much feed on-farm as possible and using silage to fill the gaps in the year.

The enterprise has 150 hectares at the dairy and last season the maize was planted in early November with Pioneer® hybrid P9400 sown to 10 hectares of country. It was a very dry year with just two inches of rain falling at critical times during the season.

Mr Coates said that in spite of the dry conditions the maize held on well. "It came out at 20 cents per kilogram, which when you compare it to hay at the moment is about half the price."

He said the maize silage had a number of advantages over hay, including an NDF which had been recorded at approximately half.

"That's what appealed to me. High starch and low NDF," he said.

When the cows were fed on the maize silage they were achieving 30 litres per cow per day instead of the high 20 litres per cow per day on the hay option. "You've also got the better fertility and cow condition from the maize to factor in", he said.



RECOMMENDED

COMMENTS

WHITE
33V62

CRM 114

EXCITING HIGH YIELDING WHITE HYBRID.

Best uses: White

- Excellent yield for maturity
- High yield potential
- Very good standability
- Excellent cob rot resistance
- Grow under contract to end users
- Crop isolation is critical

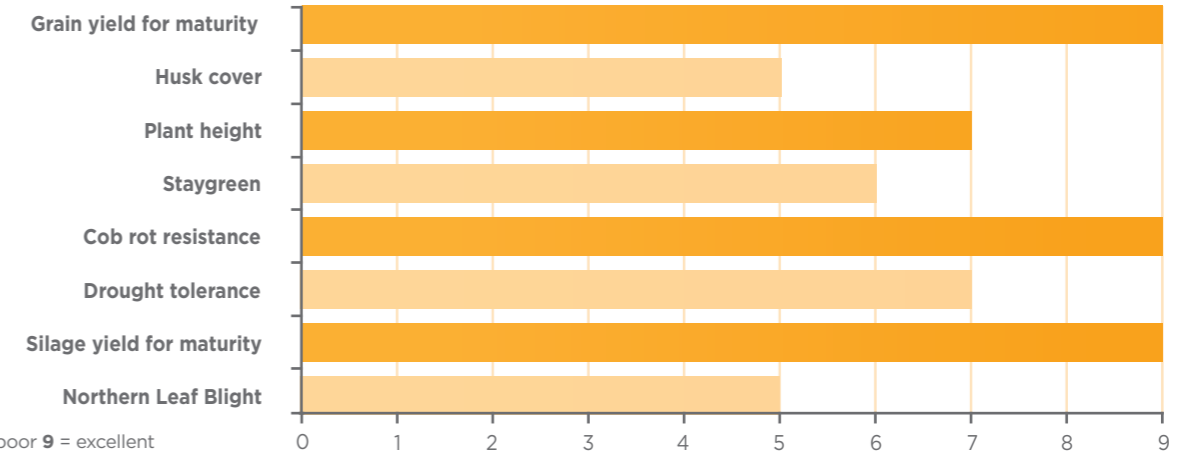
• **Contact Pioneer or Lachlan Commodities (02 6851 2077) for contracting options**

Recommended for regions



"GROWERS WERE VERY HAPPY WITH THE YIELDS. WE HAVE PEOPLE LINING UP TO GROW MORE."

Paul Pearsall, Managing Director Grainlink Australia



RATING: 1 = poor 9 = excellent

Bernie Walsh Yanco, MIA district of southern NSW
Average irrigated yield: 4.8 tonnes per acre (11.8 tonnes per hectare)

Mr Walsh initially grew corn as silage for a local feedlot, but in more recent years has diversified the range to include feed corn, waxy corn, white corn and high amylose corn hybrids. "33V62 is a good yielder and has good disease resistance," Mr Walsh said. The grain from the crop was marketed through Lachlan Commodities with some of it sold to local company, Freedom Foods, to manufacture gluten-free products.

Mr Walsh said it was a niche market

product although "there's certainly a big market in Asia. I think our edge is the GM-free status. I also think the mandate for ethanol on the US has helped jack up the prices and put us a little bit more in the picture."



RECOMMENDED

COMMENTS

New markets opening up for white maize in Australia.

A niche market supplying white maize grain as feed for meat chickens in Australia has provided opportunities for local growers. The development of the white maize market occurred with the co-operation of Grainlink, Lachlan Commodities and Pioneer.

Paul Pearsall, Managing Director of Grainlink said the 2013 harvest was the first where large quantities of white maize grain had been delivered to end users.

The grain was used to grow out meat birds to achieve the white coloured flesh that is preferred by Australian consumers.

All the white maize sourced was Pioneer® hybrid 33V62.

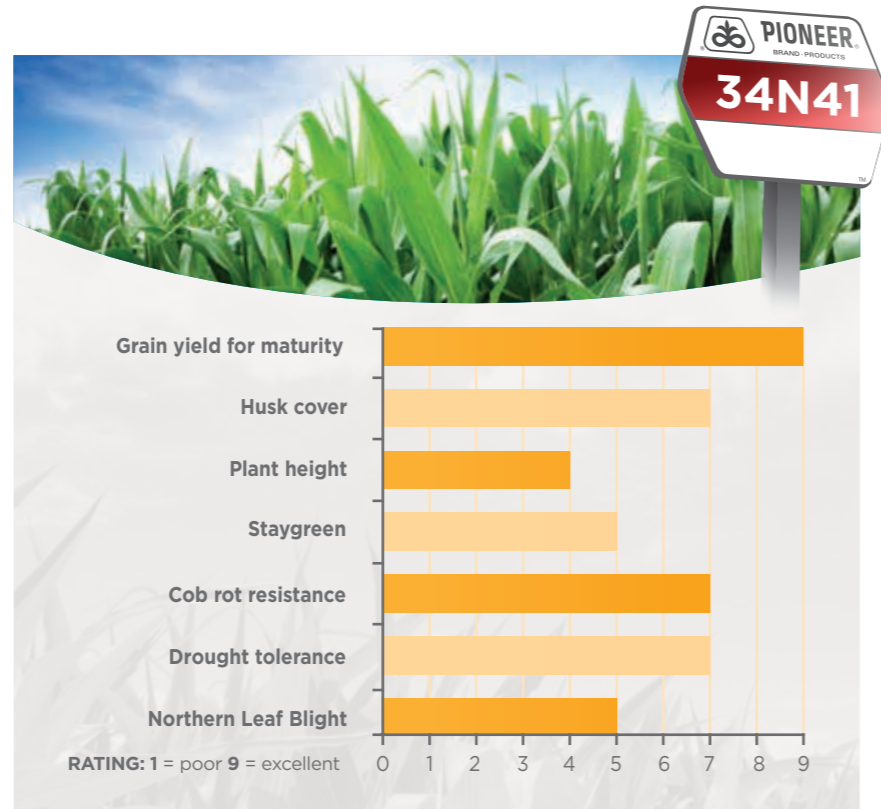
WAXY 34N41

CRM 110

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



RECOMMENDED

COMMENTS

NEW WAXY P1419E

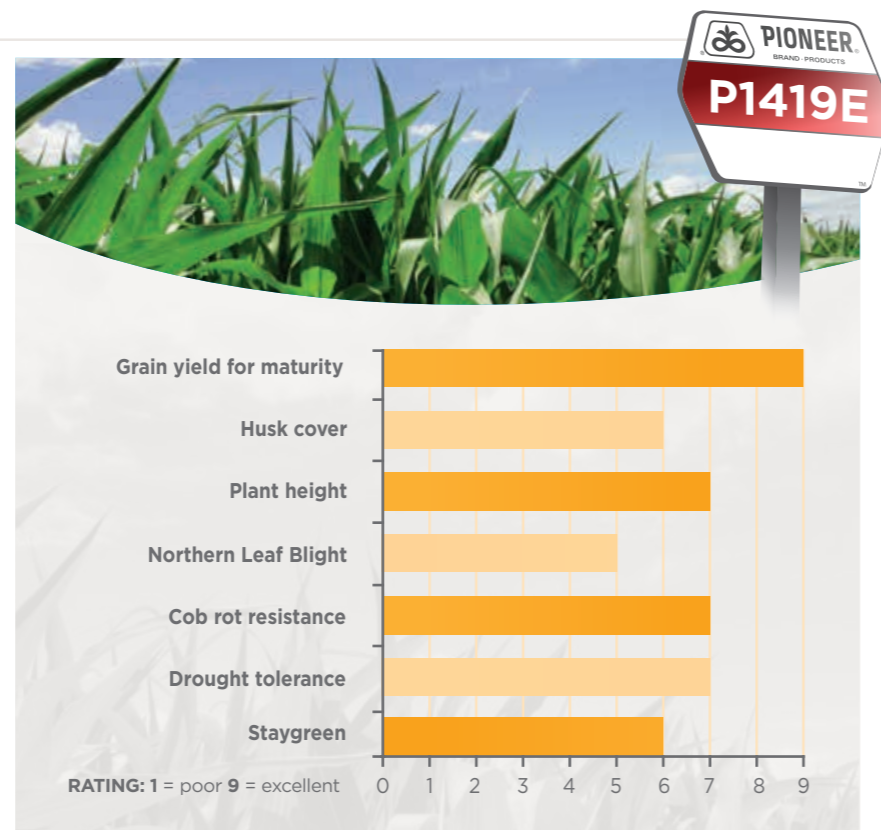
CRM 114

NEW WAXY HYBRID.

Best uses: Waxy contract option

- Consistent high yield for maturity and 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



RECOMMENDED

COMMENTS

EXCITING NEW TECHNOLOGIES SHOWCASED AT SEED TECHNOLOGY EXPO

SEED TECHNOLOGY EXPO 2013

New technologies for Australian farmers were unveiled at the DuPont Pioneer Seed Technology Expo held in Narromine, in central New South Wales from March 12-14. Industry representatives from throughout Australia attended the event, which also showcased Pioneer's production facilities and equipment.

Expo attendees were given a rare glimpse inside Pioneer's production plant, fields and breeding program and toured Pioneer's new on-farm trialling program. They also viewed new seed technology and agronomic advances that Pioneer plans to launch over the next five years.

"The Seed Technology Expo was a chance for Pioneer to invite key industry representatives to our facilities, to view our trial work and demonstrate to them our commitment to quality, production, and new technologies" said Craig Choice, National Sales and Agronomy Manager.



Ian Crosthwaite
Agronomist, Kingaroy

I thought that I knew a bit about producing seed before I went to Pioneer's seed producing plant at Narromine for their Seed Production Expo.

Things that impressed me were:

- 6 or 7 germination tests between delivery of the harvested seed until it left the plant in a bag.
- Crops can be walked up to 20 times to take out off-types using up to 120 casuals in a paddock at one time.
- It can be one hour harvesting and two hours cleaning down to prevent contamination between hybrids.
- It can cost \$10,000/ha to grow an inbred breeding line.
- Corn is cob-harvested and a different drying program is used for each hybrid to maintain quality.
- Each cob is hand inspected by one of 20 casuals before shelling out.

By the time I had left, my ideas on how much time and resources actually goes into producing a bag of quality hybrid seed had really changed.



Domonic Hogg
Agronomist, Casino

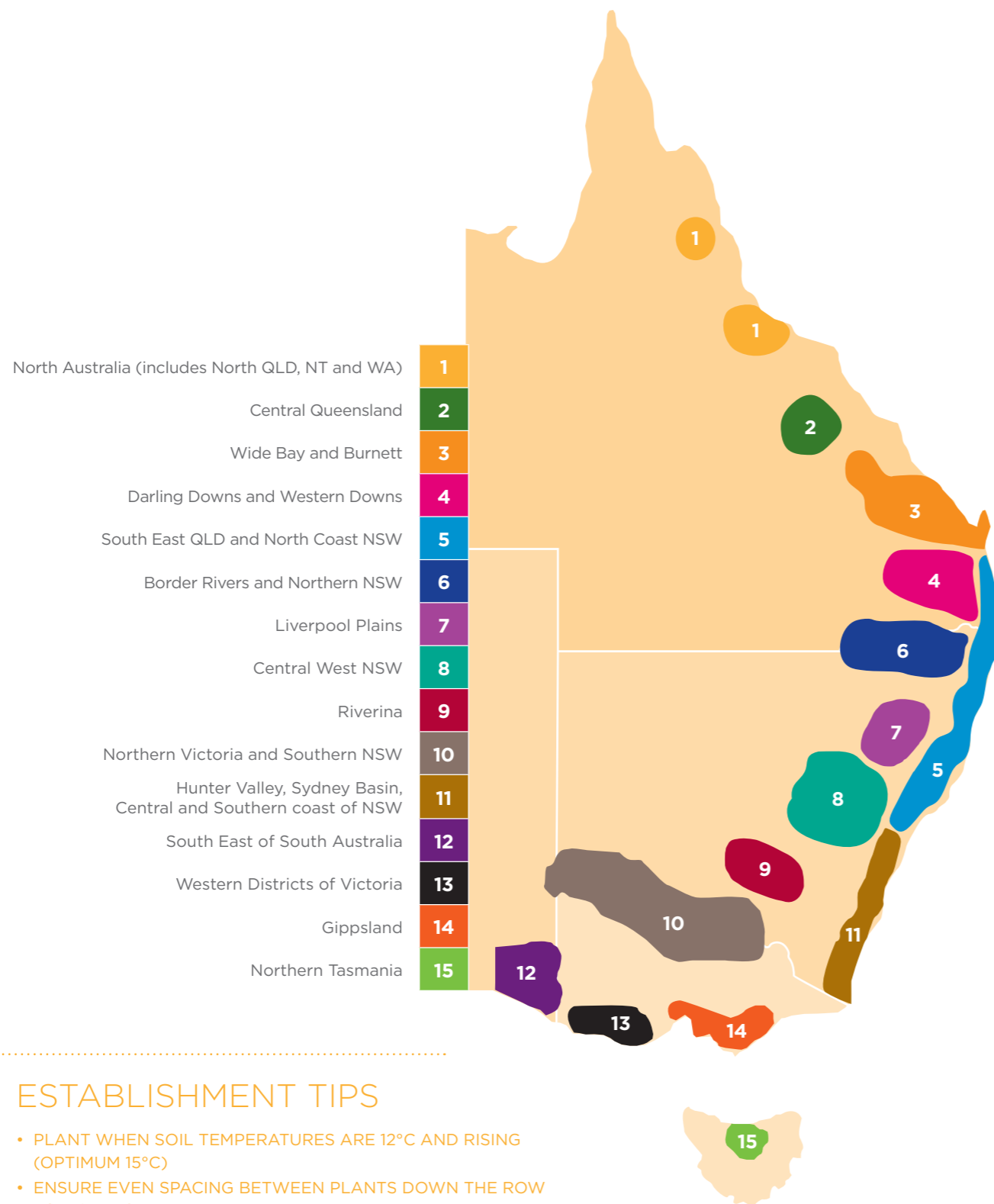
Travelling to Pioneer's Seed Technology Expo broadened my knowledge of hybrid seed production ten-fold and gave me great confidence in the hybrids that are produced by the Pioneer team. The research, time, attention to detail and passion at each and every level of hybrid seed production from parent seed storage right through to seed treatment and bagging were remarkable and gave me an appreciation of the cost of a bag of corn seed.

Thanks to the Pioneer team for the full "behind the scenes tour" of the production plant and some insight to new products coming through the pipe line.

The investment and resources put into each and every variety is huge and I look forward to seeing future varieties and developments.



RECOMMENDATIONS FOR CORN GROWING REGIONS



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

Region	Optimum planting times		Irrigated	Dryland	Silage	Processing (grits)	Processing (waxy)	Late plant	Clearfield® (grain or silage)	White
	Mar to July	Nov to late-Jan								
1. North Australia (includes North QLD, NT and WA)	Mar to July	Nov to late-Jan	32P55 P1756 P1813-IT P2307	32P55 P1756 P1813-IT P2307	P2307 P1467 P1813-IT 32P55	32P55 P1756 P1813-IT*	P1419E 34N41	P2307 P1813-IT	P1813-IT	33V62
2. Central Queensland	Aug to mid-Sept	mid-Jan to late-Feb	P1467 32P55 P1813-IT	P1467 32P55 P1813-IT	P1467 32P55 P2307	P1756 32P55 P2080 P1813-IT*	P1419E 34N41	P1467 32P55 P1813-IT P2080 P1756	P1813-IT	33V62
3. Wide Bay and Burnett	Late-Aug to Oct	Late-Nov to mid-Jan	P2307 P1467 32P55 P1756 P1813-IT	32P55 P1756 P1467 P1813-IT P1070	P2307 P1467 P1813-IT 32P55 P1756	32P55 P1756 P1813-IT*	P1419E 34N41	P2307 P1813-IT 32P55 P1756 P1070	P1813-IT	33V62
4. Darling Downs and Western Downs	Late-Aug to Oct	Dec to mid-Jan	P1467 32P55 P1070 P1813-IT P1756	P1467 32P55 P1070 P1756 P1813-IT	P1467 32P55 P2307 P1813-IT P1070	32P55 P1756 P2080 P1813-IT*	P1419E 34N41	P1467 32P55 P1070 P1756 P1813-IT	P1813-IT	33V62
5. South East QLD and North Coast NSW	Sept to Oct	Dec to early-Jan	P2307 P1467 32P55 P1756 P1070 P1813-IT	P2307 P1813-IT 32P55 P1756 P1070 P1467	P2307 P1813-IT P1467 32P55 P1070 P1756	32P55 P2307 P1813-IT*	P1419E 34N41	P2307 P1813-IT 32P55 P1756	P1813-IT	33V62
6. Border Rivers and Northern NSW	Mid-Aug to late-Sept	Dec to early-Jan	32P55 P1756 P1813-IT P1467 P1070 P2080	32P55 P1756 P1813-IT P1467 P1070 P2080	P2307 P1467 P1813-IT 32P55 P1756 P1070	32P55 P1756 P1813-IT* P2080	P1419E 34N41	P2307 P1813-IT 32P55 P1756 P1070	P1813-IT	33V62
7. Liverpool Plains	Mid-Sept to mid-Nov		P1070 32P55 P1467 P2080 P1813-IT	P1070 32P55 P1467 P1813-IT	P2307 32P55 P1467 P1813-IT P1070	32P55 P1756 P2080 P1813-IT*	P1419E 34N41	P1070 P1467 32P55	P1813-IT	33V62
8. Central West NSW	Sept to Oct	Dec to early-Jan	32P55 P1813-IT P2080 P1467 P1070 P1756	32P55 P1467 P1756	P2307 32P55 P1813-IT P1467 P1756	P2080 32P55 P1813-IT*	P1419E 34N41	P1070 P0021	P1813-IT	33V62
9. Riverina	Sept to Nov		P1070 P1467 32P55 P1813-IT	34N43 P1813-IT	P1467 32P55 P1813-IT P2307	32P55 P1756 P2080	34N41 P1419E	P1070 34N41	P1813-IT	33V62
10. Northern Victoria and Southern NSW	Oct to Nov (grain) Oct to Dec (silage)		32P55 P1070 P1467 P1813-IT P0021 P9400	-	P1467 P1070 P0021 P9400	32P55 P1756 P2800	34N41 P1419E	P0021 P9400	P1813-IT	33V62
11. Hunter Valley, Sydney Basin and Central and Southern coast of NSW	Oct to Dec		32P55 P2307 P1813-IT P1467 P1070 P1756	32P55 P1467 P1756	P2307 32P55 P1813-IT P1467 P1756	-	P1419E 34N41	P1070 P0021	P1813-IT	-
12. South East of South Australia	Oct to mid-Dec		P1070 P0021 P9400	-	P1070 P0021 P9400 P1467	-	-	P9400	-	-
13. Western Districts of Victoria	Oct to Dec		P9400 P0021	P9400 P0021	P9400 P1070 P0021	-	-	P9400	-	-
14. Gippsland	Oct to Dec		P1070 P0021 P9400	P0021 P9400	P1467 P1070 P0021 P9400	-	-	P9400	-	-
15. Northern Tasmania	Oct to Dec		P9400	P9400	P9400	-	-	-	-	-

*Under evaluation by end users



HYBRIDS

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G33

G22

G99



SORGHUM

MEDIUM MATURITY G22

AN EVEN HYBRID WITH HIGH PERFORMANCE.

- 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
- Sought after by the bird seed market



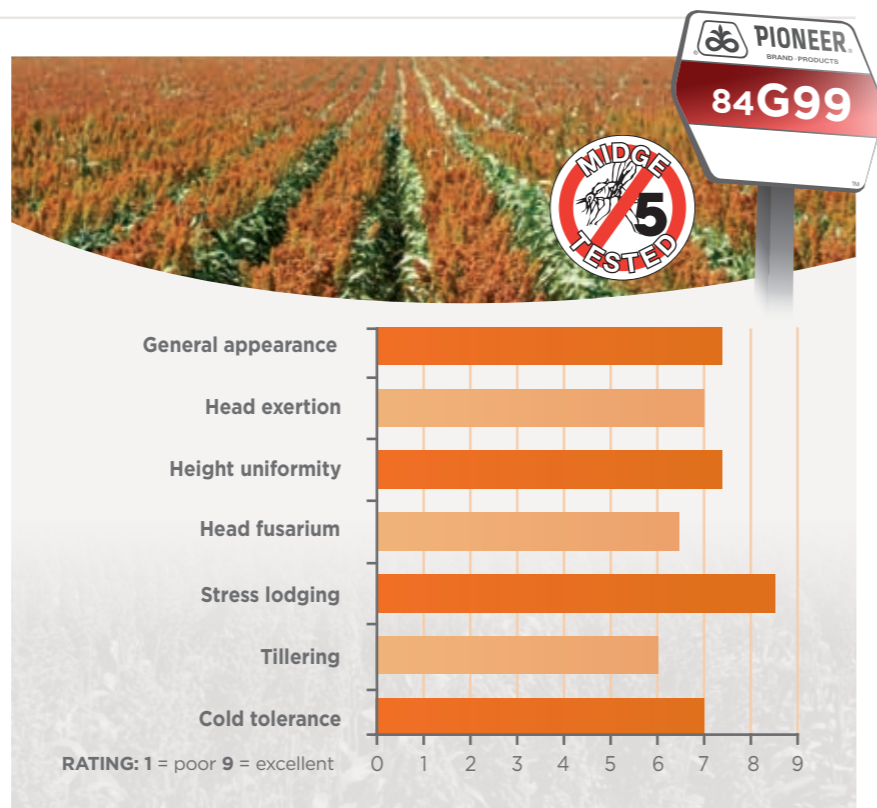
COMMENTS

RECOMMENDED

MEDIUM MATURITY G99

IDEAL FOR TOUGH DRYLAND COUNTRY.

- 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



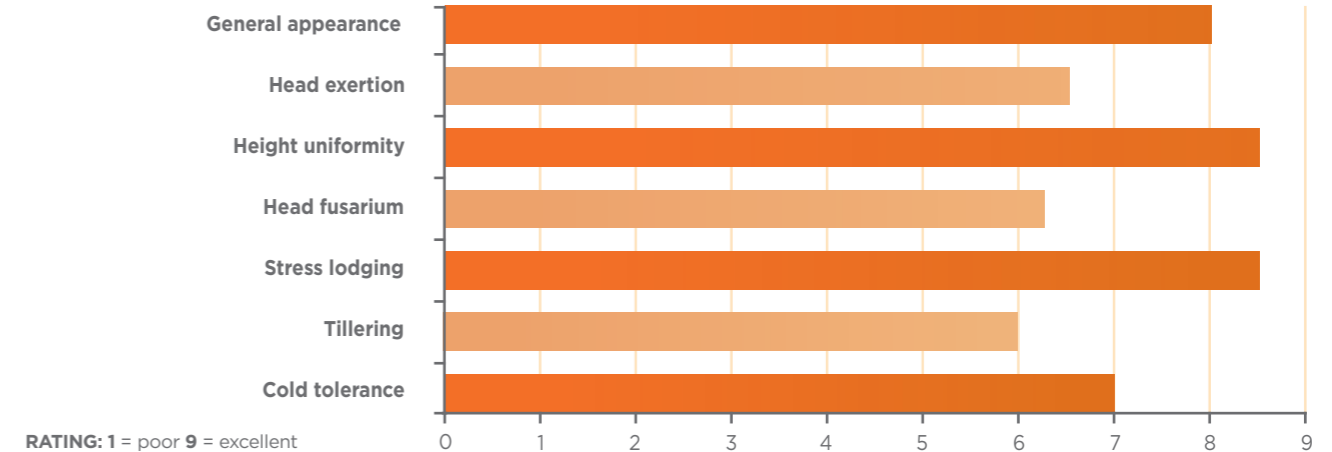
COMMENTS

RECOMMENDED

MEDIUM MATURITY G33

HIGH YIELD FOR QUICKER MATURITY.

- 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
- Irrigated or dryland



Ross Armstrong

Comet, Central Queensland

The Pioneer® hybrid G33 has produced excellent yields on a very late plant on the property of Ross Armstrong in Central Queensland.

Mr Armstrong said G33 was one of a number of sorghum hybrids planted on the property following a 60mm fall of rain on Australia Day.

He said they normally liked to finish their summer plant by mid-January, but as conditions had been extremely dry in the lead-up, there had not been an opportunity to sow sorghum during this window.

Instead he planted the sorghum in early February and the result was very pleasing.

"G33 went very well," Mr Armstrong said. "Some of it was doing 7 to 8 tonnes per hectare on the dryland. We also had it under a pivot and it did 8 tonnes per hectare under irrigated conditions."

"We were certainly very impressed with it. We will be looking at planting a fair bit more of it this year."

He said the G33 established very well and produced excellent grain at harvest, with large size and screenings of just two per cent and

sample weights of between 78 and 79 kilograms per hectolitre.

One aspect of G33 on the property last season was the fact that it didn't have any of the sorghum disease ergot showing up in the crop.

"I think the evenness of flowering time was a key to this," Mr Armstrong said. "Ergot is something that we can experience on a late plant."

COMMENTS

RECOMMENDED

“WHAT PEOPLE ARE SAYING”

G22

Nick Schneebeli

Moree, NSW

Average yield: 2.7 tonnes per acre (6.6 tonnes per hectare)

Sorghum planted in mid-September on the Schneebeli property proved to be a good option prior to cotton last season.

“It was good to have a rotation into an area that had had cotton for a long time,” he said. “With a monoculture, everything just builds up.”

He said there also would have been too much cotton to irrigate at one time, so the earlier planted sorghum allowed them to split the waterings across the season.

Mr Schneebeli said the early part of the season was quite challenging as they had issues with the ground subbing up so the sorghum acted as a guinea pig for the cotton and the lessons learned with the crop helped them better establish the cotton later in the season.

Mr Schneebeli said the sorghum stood well after being inundated with a late rain in January and was good to harvest.

The grain quality was also good with G22 all sold as sorghum one.

“We were very happy with the quality,” Mr Schneebeli said. He said adding sorghum to the cotton rotation provided a number of advantages including a break for weeds and diseases.



G33

David Bailey

Brookstead, Queensland

Average yield: 4.08 tonnes per acre (10.11 tonnes per hectare)

The 2013 Pittsworth Show Competition was taken out by the Bailey Family, of Brookstead, with a crop of Pioneer® hybrid G33 sorghum. “It was exceptional,” he said.

G33 was included in a 770 acre area on the property which encompassed two paddocks and included one area that had contained sorghum the previous year.

The overall yield of the property was approximately 3.2 tonnes per acre (7.9 tonnes per hectare) and included the Pioneer® brand hybrids G33, G22 and an area of Buster*.

G22

Chris Hornick

Cecil Plains, Queensland

Average yield: 3 tonnes per acre (7.4 tonnes per hectare).

The Pioneer® hybrid G22 sorghum has become the main variety grown on the properties of Chris Hornick.

Mr Hornick said it was the third year they had grown G22 and its success over that time had elevated it to being the main hybrid planted.

“I really like it’s even grain size and standability.”

He said there were areas on the properties of light soil where other hybrids had fallen over.

“G22 just hasn’t fallen over,” he said.



PLANTING PARTNERS

G33 and G22

**Noel, Kieran & Brodie Cook
Kindon Station, Queensland**

**Average yield: 1.5-2 tonnes per acre (3.7-4.9 tonnes per hectare)
(early plant) 1.25-1.5 tonnes per acre (3-3.7 tonnes per hectare)
(double-cropped country)**

A challenging year on three properties owned by the Cook family in southern Queensland still produced excellent results.

Kieran Cook said they planted approximately 10,000 acres of sorghum into country at “Kindon Station”, near Goondiwindi, “Brushy” at Meandarra and “Kilbirnie” at Tara in a range of different situations.

Pioneer® hybrid G22, the Pioneer® hybrid G33 and MR-Bazley* were the selected Sorghum varieties grown.

G22 was the best performing sorghum in the early plant.

“At Kilbirnie it was a mid-October plant, and then we didn’t get much rain til Christmas time. If it hadn’t have rained at Christmas there wouldn’t have been anything on the other two and the G33 still would have had grain,” Kieran said.

In the lead-up to the Christmas rain, the sorghum survived through eight days above 40 degrees. “It nearly died and we got the rain at Christmas and then Cyclone Oswald and it finished beautifully.”

Kieran said the G33 seemed to be a lot more drought tolerant. “We were lucky. As I said to dad, good things come to those who wait. It certainly did. It yielded well, but there was some waiting”

They had excellent establishment occurring in very good moisture conditions.

“Every plant came up and it was just too thick,” Kieran said.

Following the success of the sorghum, both G22 and G33 hybrids will be planted to the various properties next year.

Kieran said G33 was deceiving with the amount of yield.

“It never looks good. Even when you drive across the Downs, G22 gets out of the flag and looks good, the G33 will be still down amongst the flag.

“It seems to come into head and looks really nice and then the flag comes and takes the edge off it. It doesn’t make any difference to what comes in the header, but it is just visual”

He said the sorghum harvested at Kindon, in particular, had excellent grain quality and weighed very well.

“Our sorghum here has all averaged about 81 kilograms a hectolitre, with anywhere between a half and three quarter per cent screenings. All our double-crop was the same, 81 kilograms. It was like wheat. It makes a big difference to your yield.”

Kieran also said they were impressed with the seed quality of the Pioneer sorghum, which didn’t have the rogue sorghum of the other competitor hybrid.



G22 and G33

Chris Donovan

Dalby, Queensland

Average yield: 2.9 tonnes per acre (7.1 tonnes per hectare)

The Pioneer® hybrid G22 has shown its potential for the second year running on the “Bunya Valley” property of Chris Donovan.

Mr Donovan said he also grew the Pioneer® hybrid G33 and Buster* which both produced average yields of around 2.5 tonnes per acre (6.2 tonnes per hectare).

“G33 was neck and neck with Buster*. There wasn’t much between them at all. G22 went really well. It stood out this year, especially after we had a prolonged period of very hot weather before flowering which took its toll.

“We will be giving G22 another go next year,” Mr Donovan said.

He said yield was very important, although other factors such as harvestability and management also came into play when selecting sorghum hybrids. “G33 was easier to harvest as it had less stay-green and dried down well,” he said.

G22 and G33

Bill Town

Dalby, Queensland.

Average yield: 2.3 tonnes per acre (5.70 tonnes per hectare).

Pioneer® brand G22 and Pioneer® brand G33 were the two sorghum hybrids planted in mid-October last year on the “Well Park” property of Bill Town. Both hybrids proved successful under mixed seasonal conditions.

“When we planted we just had two foot of moisture”, Mr Town said. “I had seen G33 in trials and it had really stood up under tough conditions.

“With G22 we had a demo block the year before it went commercial. We have grown it ever since.”

At harvest the yields of both hybrids were very similar.

“I couldn’t really split G22 and G33,” Mr Town said.

“I didn’t see any yield difference between the two although G22 didn’t cop the worst of the weather.”

He said the maturity of Pioneer® brand G33 was quicker than Pioneer® brand G22 which went against it, with the timing of a large amount of rainfall at harvest.

“Some of the G33 had 250mm on it from spray-out through to harvest.

PLANTING PARTNERS

It didn’t even look like falling over and I think that’s a real strength – especially when the season gets tough.

“If I have a dodgy paddock where moisture is limited than I think G33 is the go. One thing I think is outstanding with G33 was in the previous season when it was the only variety standing up in a trial on cotton ground at Millmerran.”

G22 also performed well on the property last year and impressed in other areas.

“The lesson is to have a mix,” he said

“One thing that definitely stands out is the grain colour of G22,” Mr Town said.

“You can see it in the back of the truck. If you are a classifier, the first thought would be to put it in as Sorghum 1. Quite often the first impression is very important.”



*Not a Pioneer® brand hybrid



HYBRIDS

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SSS

BETTA GRAZE

MEGA SWEET

GRAZE-N-SILE

FORAGE SORGHUM

NEW

SuperSweet Sudan

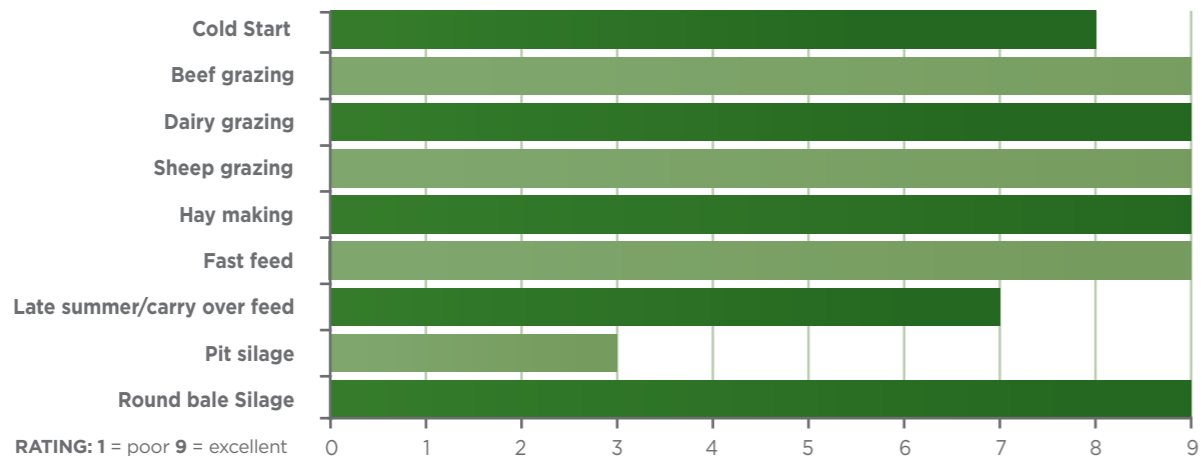
SUDAN X SUDAN

THE NEXT GENERATION HYBRID. A UNIQUE AUSTRALIAN PRODUCT, BRED FOR AUSTRALIAN CONDITIONS.

New Super Sweet Sudan (SSS) hybrid is quick to graze and sustains multiple and intensive grazings. SSS produces high quality hay and round bale silage suitable for sheep and cattle. Adaptable early or late planting.

KEY FEATURES

- GROW MORE WITH LESS - High quality smaller seed means you plant more hectares with less kilograms
- Wide area adaption
- Very fast growth and regrowth
- Prolific tillering habit
- Superfine stems
- Super sweet and leafy
- Super high-quality hay
- Highly palatable at all stages of maturity and growth
- Suited for dryland situations and intensive irrigation



Brad Rae
Rae property, Kyalite
New South Wales.

Brad Rae planted a strip of the new Pioneer® hybrid Super Sweet Sudan forage in the same paddock as a millet crop to compare the two summer forage options.

"We have done millet before and we were putting that in and our agronomist told us about this other product and we thought we'd trial it," Mr Rae said.

"We usually get summer rain for our dryland lucerne. It didn't come this year and we had to come up with something else, so in went the sorghum.

"It was up before the millet - up and

going way before the millet. At 3 weeks, just before we put the sheep on it, it would have been an inch taller than the millet.

"We were struggling for feed so we put the sheep on at four weeks," Mr Rae said. "It would have been close to a foot tall. The sheep went for it first, they grubbed it out and then went to the millet.

"The second time we let them graze it, I came back up the next day and there was just a corridor of sheep, only on the sudan," Mr Rae said.

"I would say it is because it is so sweet, obviously, and they went for it first, and took it to the ground. Then they would go to the millet.

"I would definitely look at putting it in next year if the same circumstances arose."



COMMENTS

RECOMMENDED

BETTA GRAZE

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



COMMENTS

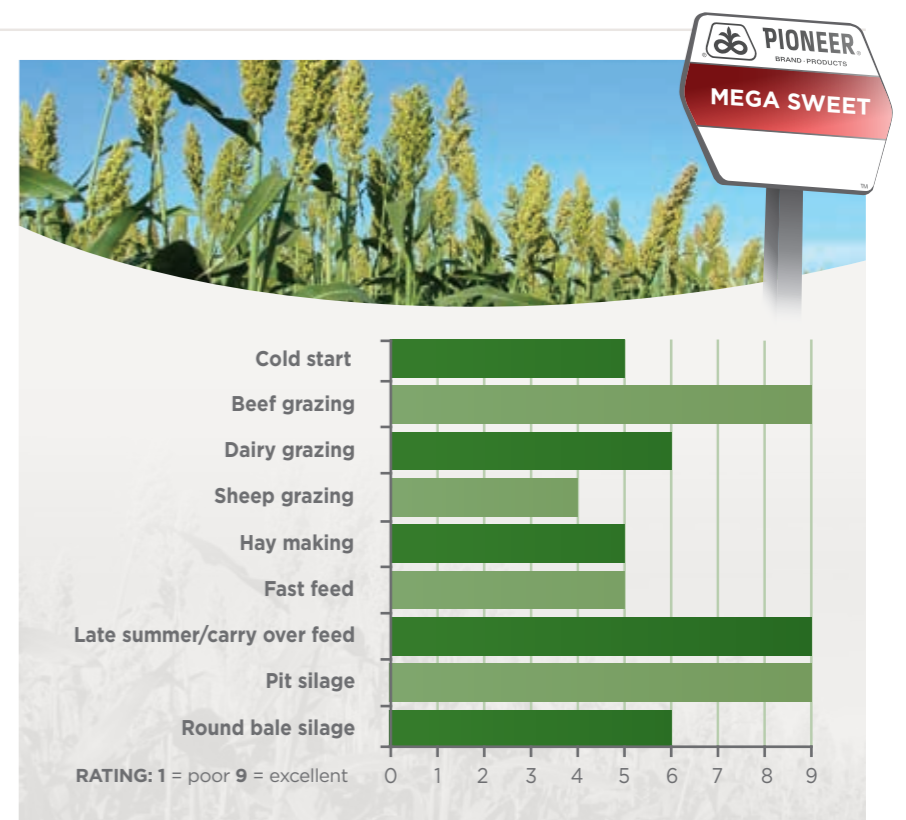
RECOMMENDED

MEGA SWEET

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 season



COMMENTS

RECOMMENDED

GRAZE-N-SILE

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 water efficient than corn
- Grain yields similar to grain sorghum hybrids (do not direct harvest like grain sorghum)
- White grain type



COMMENTS

HYBRID		SSS	BETTA GRAZE	MEGA SWEET	GRAZE-N-SILE
Special comments		The next generation hybrid	Best cold tolerance - first to plant	Grain-bearing: feed value increases with maturity	For pit silage
Planting rate	Marginal dryland	1 to 3 kg/ha	2 to 10 kg/ha	2 to 4 kg/ha	50-70,000 seeds/ha
	Good dryland	3 to 8 kg/ha	5 to 25 kg/ha	5 to 6 kg/ha	75-100,000 seeds/ha
	Irrigation and coastal	8 to 20 kg/ha	10 to 30 kg/ha	8 to 12 kg/ha	100-150,000 seeds/ha
Hybrid management	Level of required management	Super sweet fine stems allow for excellent palatability at most stages of growth. Best results when grazed on a regular basis.	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	For highest quality, initial grazing between 70 cm and 120 cm tall and follow up grazing between 50 cm and 120 cm tall.	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	From broadacre to 75 cm	75 to 100 cm rows suit crop and grain development	20 to 100 cm

“WHAT PEOPLE ARE SAYING”



MEGA SWEET
Derrick and Kaylene Otto, Udderlot Property
St Aubyn, QLD
Average silage yield: 13-14 tonnes per acre (32-34.5 tonnes per hectare)

Derrick Otto trialled many different forage sorghum types over the years but has settled on the Pioneer® hybrid Mega Sweet in more recent times to produce silage for the dairy cows.

“Mega Sweet seems to yield better and stand up better,” he said. “It does well for us and so we keep planting it.”

He said Mega Sweet will often reach a height of eight to nine feet and produces a large head of grain which helps provide energy to the silage.

Silage from Mega Sweet, grown on the property, has been tested at more than

10 per cent energy and a protein content of around 8 per cent.

Mr Otto said as long as there was adequate rainfall the forage sorghum grew extremely well.

“Sometimes if you are lucky you can get a second crop,” he said.

In some years the forage sorghum has produced yields of between 39 and 49 tonnes per hectare under more favourable conditions.

He said the silage provided excellent roughage and bulk in the feed and the cows milked well, producing between 27 and 30 litres per cow per day over much of the year.

Silage inoculant is also used at harvest to help with the fermentation process and to ensure the best possible silage quality is achieved from the stack.

BETTA GRAZE
Margaret Martin-Saunders
Lowood, QLD

The Pioneer® hybrid Betta Graze forage sorghum provided an excellent grazing option for thirty head of cattle through December and January on Margaret Martin-Saunders property at Lowood.

“We grazed it right through summer,” Ms Martin-Saunders said. “I’m so glad we had it. When the flood came through it was still standing.”

After the area was inundated with water, the Betta Graze continued to grow and provided further feed for the cattle in late summer and early autumn.

“The cattle went into winter looking very well. We were very happy with the yield we received from it.”

Betta Graze will be planted to double the area this season and a number of options will be looked at to maximise yield and productivity from the crop.

GRAZE-N-SILE
Allen Anderson
Goomeri, QLD
Average silage yield: 15 tonnes per acre (37 tonnes per hectare) & 10 tonnes per acre (25 tonnes per hectare)

Pioneer® Graze-N-Sile is the main forage sorghum grown on the property each year because of its ability to produce high yields and adapt well into the dairy ration.

Mr Anderson said typically the Graze-N-Sile would test at 6 to 7 per cent protein 9 to 9.5 megajoules of energy with the silage used all year round as part of the dairy cow diet.

The Graze-N-Sile is added directly to the mixer wagon and fed out to the cows as part of a TMR system, with a nutritionist providing recommendation for additional feed sources.

Mr Anderson said the fibre and bulk produced by the forage sorghum was very important.

“You can always buy in your protein and grain but if you have to buy in your roughage you are going to go backwards,” he said.

Graze-N-Sile is now used on the property after many years of trial and error with a range of other forage sorghum options.

“It just seems to be the easiest and least



hassle,” Mr Anderson said. “The others don’t seem to have the stamina of Graze-N-Sile. It is easy to grow and you can hook in with the forage harvester.”

A late crop of Graze-N-Sile, which was sown under relatively dry conditions in January, also produced better yields than expected.

At harvest, it still yielded between 8 and 9 tonnes per acre (20 to 22.5 tonnes per hectare) in spite of some challenges at establishment and through the growing season.

“Graze-N-Sile seems to fit the bill for us,” Mr Anderson said.



11CFT
11C33
1127

11G22
1174

INOCULANTS

11CFT

REVOLUTIONARY TRIPLE-STACK INOCULANT.

Use: Maize silage specific

- Reduces dry matter loss resulting from “front-end” fermentation losses and “back-end” feed-out losses
- Improves digestibility. An excellent option for high producing herds fed high levels of forage
- Allows for reduction in concentrate and protein supplementation to reduce total feed costs
- Enables silage to be fed out up to one day in advance*



Product	11CFT
Crop	Maize
Fully researched and proven	✓
ISO 9002 accredited	✓
Improved fermentation	✓
Aerobic stability	✓
Improved fibre digestibility	✓

COMMENTS

RECOMMENDED

11C33

DUAL PURPOSE INOCULANT.

Use: Maize silage specific

- Improves silage quality providing a low final pH and a desirable silage fermentation acid profile
- Reduces heating, decreases feed-out losses
- Enables silage to be fed out one day in advance*



Product	11C33
Crop	Maize
Fully researched and proven	✓
ISO 9002 accredited	✓
Improved fermentation	✓
Aerobic stability	✓
Improved fibre digestibility	✓

COMMENTS

RECOMMENDED

1127

PASTURE SPECIFIC BACTERIA.

Use: Pasture and cereal silage

- Improves fermentation, retains nutrient content and enhance digestibility of pasture silage
- Improves the feed value of milk or meat production of pasture silage



Product	1127
Crop	Pasture and cereal
Fully researched and proven	✓
ISO 9002 accredited	✓
Improved fermentation	✓
Aerobic stability	✓
Improved fibre digestibility	✓

COMMENTS

RECOMMENDED

11G22

DUAL PURPOSE INOCULANT.

Use: Pasture and cereal silage

- Contains pasture specific bacteria and *L.buchneri*
- Improves fermentation
- Reduces heating in the pit and during feedout



Product	11G22
Crop	Pasture and cereal
Fully researched and proven	✓
ISO 9002 accredited	✓
Improved fermentation	✓
Aerobic stability	✓
Improved fibre digestibility	✓

COMMENTS

RECOMMENDED

* While silage can be fed out immediately after harvest, maximum aerobic stability benefits will be made when it is fermented 30 days prior to feeding.

1174

PROVEN INOCULANT*

Uses: Multi-crop Inoculant

- Ideal for cereal, legume, pasture and corn silage
- Helps improve fermentation, retain nutrient content and enhance digestibility of ensiled forages



Product	11CFT
Crop	Multi-crop
Fully researched and proven	✓
ISO 9002 accredited	✓
Improved fermentation	✓
Aerobic stability	
Improved fibre digestibility	

COMMENTS



*Proven in Independent Australian animal trials.



PIONEER® BRAND INOCULANTS



KEEP IT COOL - INOCULANT TRIAL RESULTS.

Maize silage contains high concentrates of starch and sugars. This makes it prone to heating when the stack or bunker is opened at feed-out time.

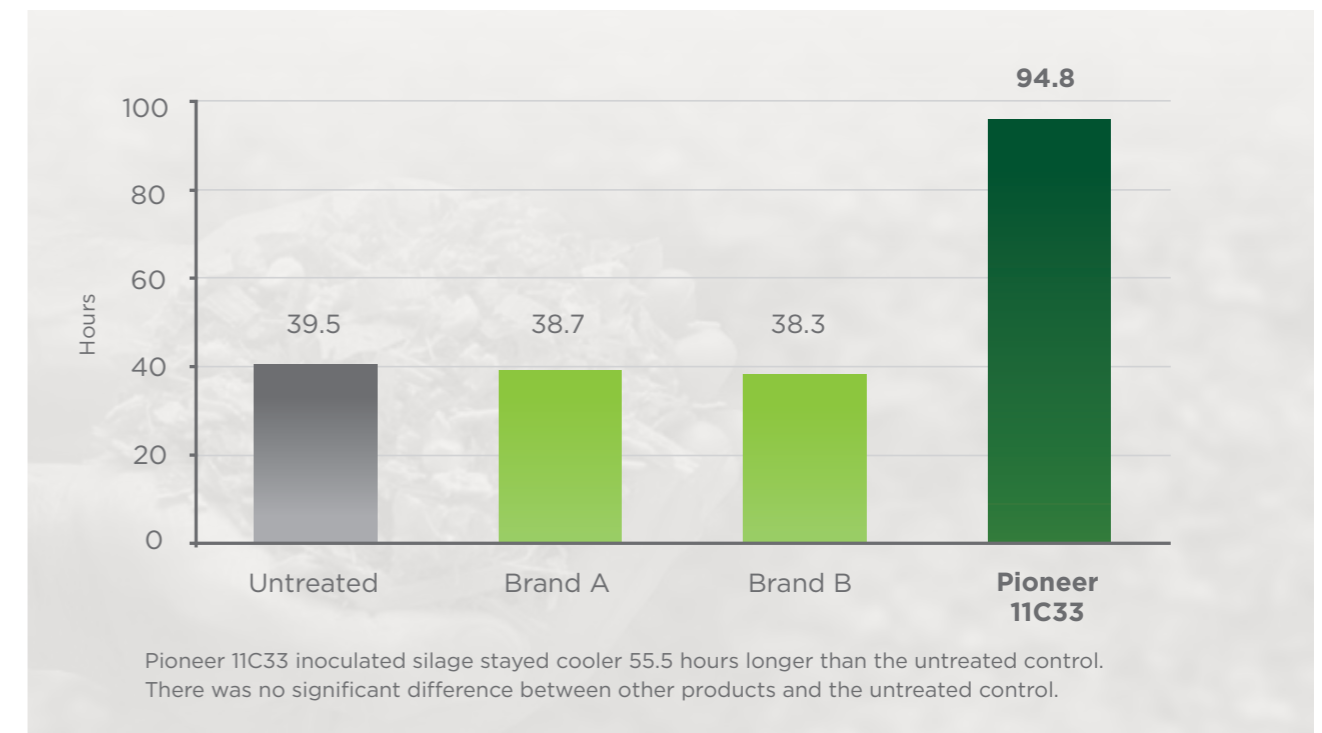
LOSS OF COOL, LOSS OF NUTRIENTS.

When silage heats, valuable nutrients are lost which would have been used by the cow to produce milk. When you apply the right silage inoculant and use good harvest, storage and feed-out management techniques you can reduce the heating in your maize silage.

Pioneer® brand 11C33 is designed to keep your silage cool. A recent paper presented at the New Zealand Grasslands Association conference demonstrated 11C33 kept silage cool for 55.5 hours longer than untreated control. There was also NO statistically significant difference between the other products tested and untreated control.

Not all products deliver benefits, you could be wasting your money and time - always ask for Pioneer® brand inoculants.

11C33 keeps silage cool 55.5 hours longer



DUPONT PIONEER® STRIKE TRIALS

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

DUPONT PIONEER RESEARCHERS REALISE GROWERS NEED PRODUCTS THAT MEET THEIR LOCAL NEEDS, NOT COOKIECUTTER, ASSEMBLY-LINE HYBRIDS AND VARIETIES.

STRIKE TRIALS – The best seeds start with the best trial program

DuPont Pioneer is gathering more local data than ever before through the unique STRIKE (Seed Technology Research in Key Environments) trials. This local data is helping Pioneer advance and characterise the best products for local needs.

In STRIKE Pioneer compares new products to those in the current Pioneer brand lineup. STRIKE trials test dozens of our hybrids to identify top candidates for commercialisation.

“We’re trying to find products that perform consistently,” says Richard Fraser, Manager of Summer Crop STRIKE trials in Australia.

“For summer crops we identify key environments in each sales area for STRIKE trials. We’re looking at subsoil constrained areas, droughty areas, good conditions, corn-after-corn fields and a wide variety of conditions growers face in each region.”

“STRIKE trials provide data for product advancement and positioning,” says Clint Rogers, Manager of Canola STRIKE trials. “Because we have so many locations across the country, we can evaluate

products more broadly and in more environments than with traditional research alone.”

A local thrust

Although testing is wide-scale, product advancement is local.

“Customers can be confident a product available in their area has been tested locally,” Mr Rogers says. “Accurate product characterisation on the local level helps customers place the right product on the right acre.”

“Growers want to know what performs well in their area,” Mr Fraser says. “STRIKE trials supply information that helps sales personnel work to find those appropriate hybrids and varieties.”

“We’re able to get numerous data points that apply to local conditions,” he added.

Paul Elsdon, of Brookstead, QLD has been testing Pioneer® brand hybrids on-farm for the past eight years, with his father having trialled products for many seasons before that.

He said they have learnt that many hybrids are regional specific.

“The only way you are going to know that is to do the trials,” he said. “We

need to see them in a farmer’s field.”

Gordon Cook of Dalby has also been trialling Pioneer products for many seasons and said the program was an excellent way of seeing new sorghums coming through.

“I think there are different soils for different crops which is the main advantage of having trials on your place. You need to work out what is best.”

He said it was always very interesting to see the new products coming through.

“Some of the sorghums this year looked really promising,” he said.

A new approach

Mr Fraser said the summer crop STRIKE model was formed from the Pioneer IMPACT model in the US.

“In this age of technology, we have a lot of genes we’ve uncovered through molecular marker technology as well as lots of biotech traits,” he said.

“STRIKE trials allow us to test defensive traits, product adaptability, yield and several other traits in our broad base of germplasm.”

This allows Pioneer to define the actual local performance of those products with the greatest potential to help growers achieve higher and more-consistent yields.

In the U.S, Optimum® AQUAmax™ hybrids were developed and advanced through IMPACT trials.

“The U.S tested numerous Optimum® AQUAmax™ hybrids in 2011 IMPACT plots,” Mr. Fraser said. “They identified those that truly handled water-stressed environments. They also saw they performed on par or better than conventional hybrids.”

STRIKE trials are now being used to test the Optium® AQUAmax™ technology in Australian conditions.

Evaluate success locally

STRIKE managers oversee these plots, spearheading product evaluation for local environments.

“We test in high-yield and stress environments,” Mr Fraser said.

“A product that performs well in one might not fare so well in another. We’re looking for consistency from new products, but we also can characterise those particularly well suited to certain environments.”

Growers offer their fields

STRIKE trials are located in growers’ fields across Australia. Area Managers are looking for a uniform location in a field so they can compare products fairly and accurately.

Growers, or cooperators, allow Pioneer researchers to manage STRIKE trials on these fields to get information on how products perform.

“Testing site selection is crucial,” Mr Fraser said. “We try to eliminate as many variables as we can so we evaluate the genetics on their own merits. A uniform site is important. Each product should have the opportunity to ‘win’ the location.”



Data in good or bad years

STRIKE trials give Pioneer access to valuable data whether growing conditions are “normal” or extreme.

“You don’t wish for a drought, but if it happens it will allow us to gather data on Pioneer hybrid performance under very challenging conditions,” said Mr Rogers. “The information we collect in STRIKE trials during a drought year can help us characterize products for these conditions.”

STRIKE trials are another tool — and an important one — to help Pioneer ensure each customer can place the right product on the right acre.



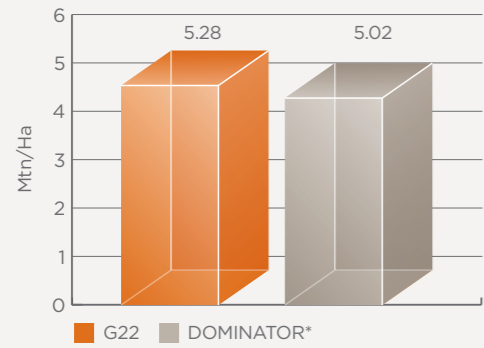
STRIKE SORGHUM RESULTS



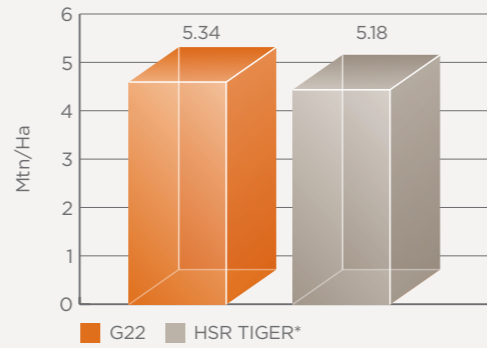
STRIKE CORN RESULTS



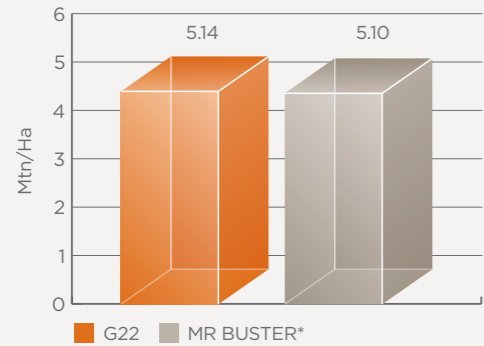
G22 VS HSR DOMINATOR 38 Locations, 85 reps over 5 years



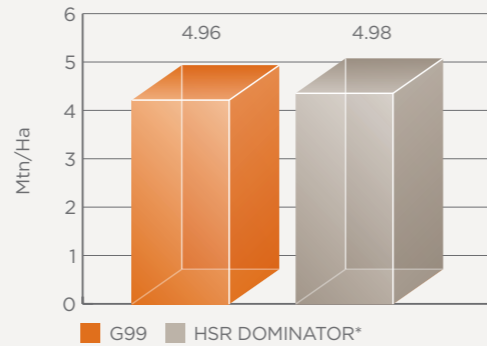
G22 VS HSR TIGER 34 Locations, 73 reps over 5 years



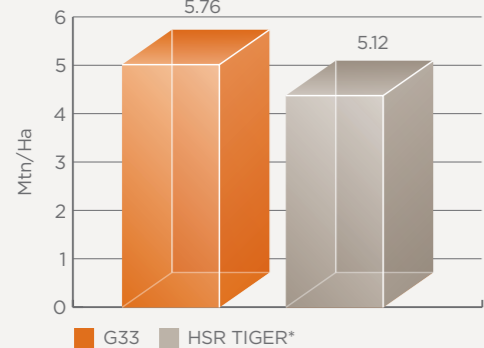
G22 VS PAC MR BUSTER 36 Locations, 84 reps over 5 years



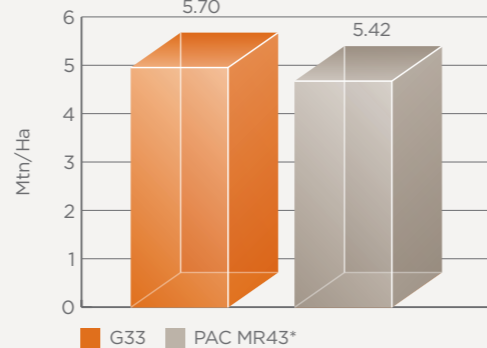
G99 VS HSR DOMINATOR 40 Locations, 88 reps over 5 years



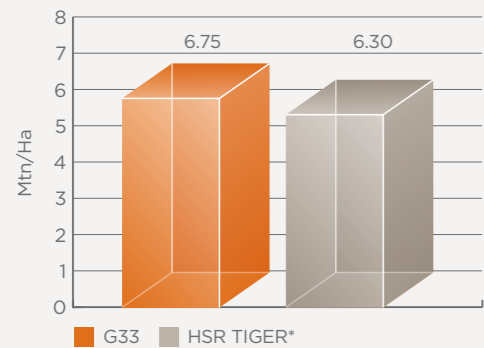
G33 VS HSR TIGER 27 Locations, 55 reps over 5 years



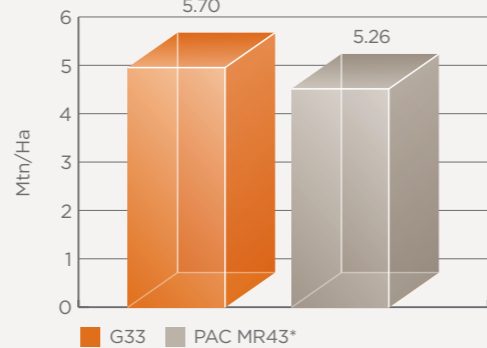
G33 VS PAC MR43 28 Locations, 66 reps over 5 years



G33 VS PAC MR BAZLEY 17 Locations, 37 reps over 5 years

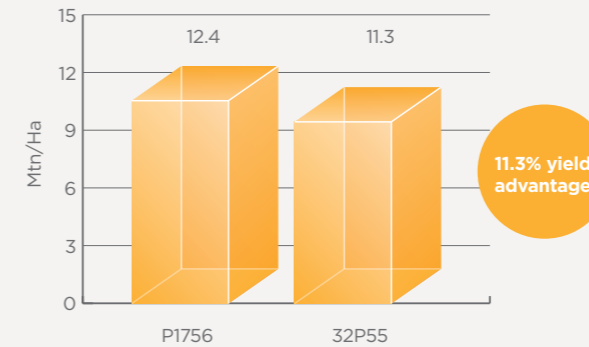


G33 VS PAC MR BUSTER 28 Locations, 64 reps over 5 years

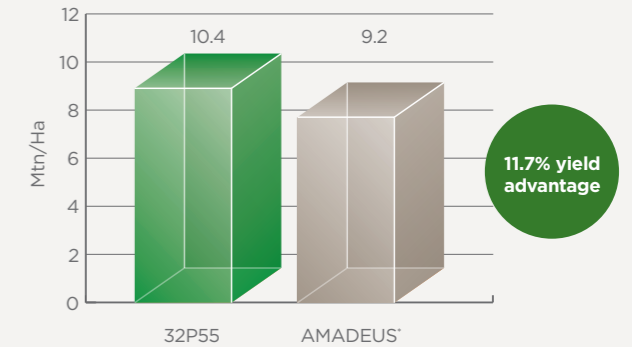


This is national data gained from a combination of STRIKE and research trials. For regional information please contact your local Pioneer Area Manager.

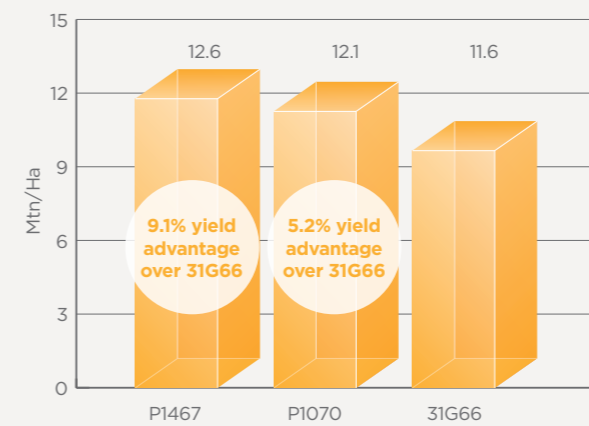
24 Locations, 46 reps research small plot over 3 years



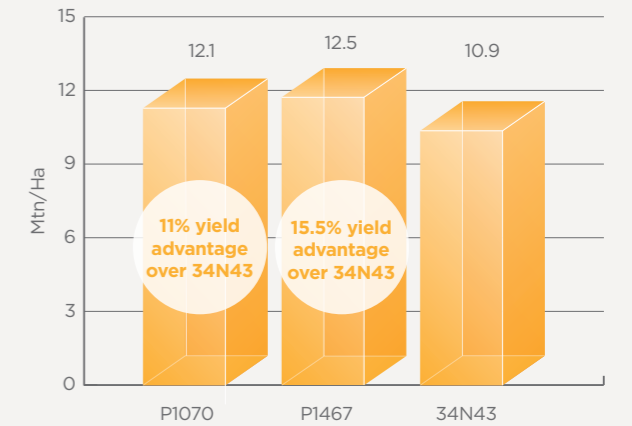
7 Irrigated locations, 22 reps



11 Locations, 22 reps research small plot over 5 years



11 Locations, 22 reps research small plot over 3 years



Data shown here is national data, for regional information please contact your local Pioneer Area Manager.

* Not a Pioneer® brand hybrid



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PIONEER SEED TREATMENTS FOR CORN

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REWARDS PROGRAM POINTS

Pioneer product or service to Pioneer	Unit	Points per unit
Forage sorghum (basic)	Bag	10
Forage sorghum (Betta Strike® or Betta Strike® Plus)	Bag	15
Grain sorghum (basic)	Bag	15
Grain sorghum (Betta Strike® or Betta Strike® Plus)	Bag	20
Corn (basic)	Bag	20
Corn (Betta Strike®)	Bag	25
Canola variety (Betta Strike® or Betta Strike® Plus)	Bag	25
Canola hybrid - Clearfield® (Betta Strike® or Betta Strike® Plus)	Bag	35
Canola hybrid - Roundup Ready® (Betta Strike® or Betta 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
Product advancement Trial (PAT)	Trial	2000
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
11CFT, 1127, 1174 inoculant - 50 mt bottle	Bottle	10
11CFT, 1127, 1174 inoculant - 250 mt bottle	Bottle	35



PIONEER CROP CREDIT

Club Pioneer growers can buy Pioneer® brand seed but delay payment for six months (a 5% administration charge is added to the cost of the seed).

FOR MORE INFORMATION, CONTACT YOUR DUPONT PIONEER AREA MANAGER OR PROMOTER AGENT

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