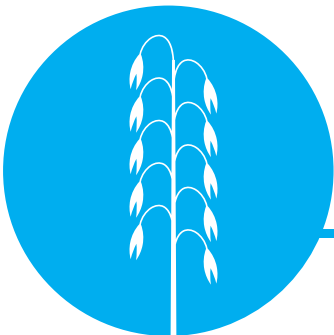
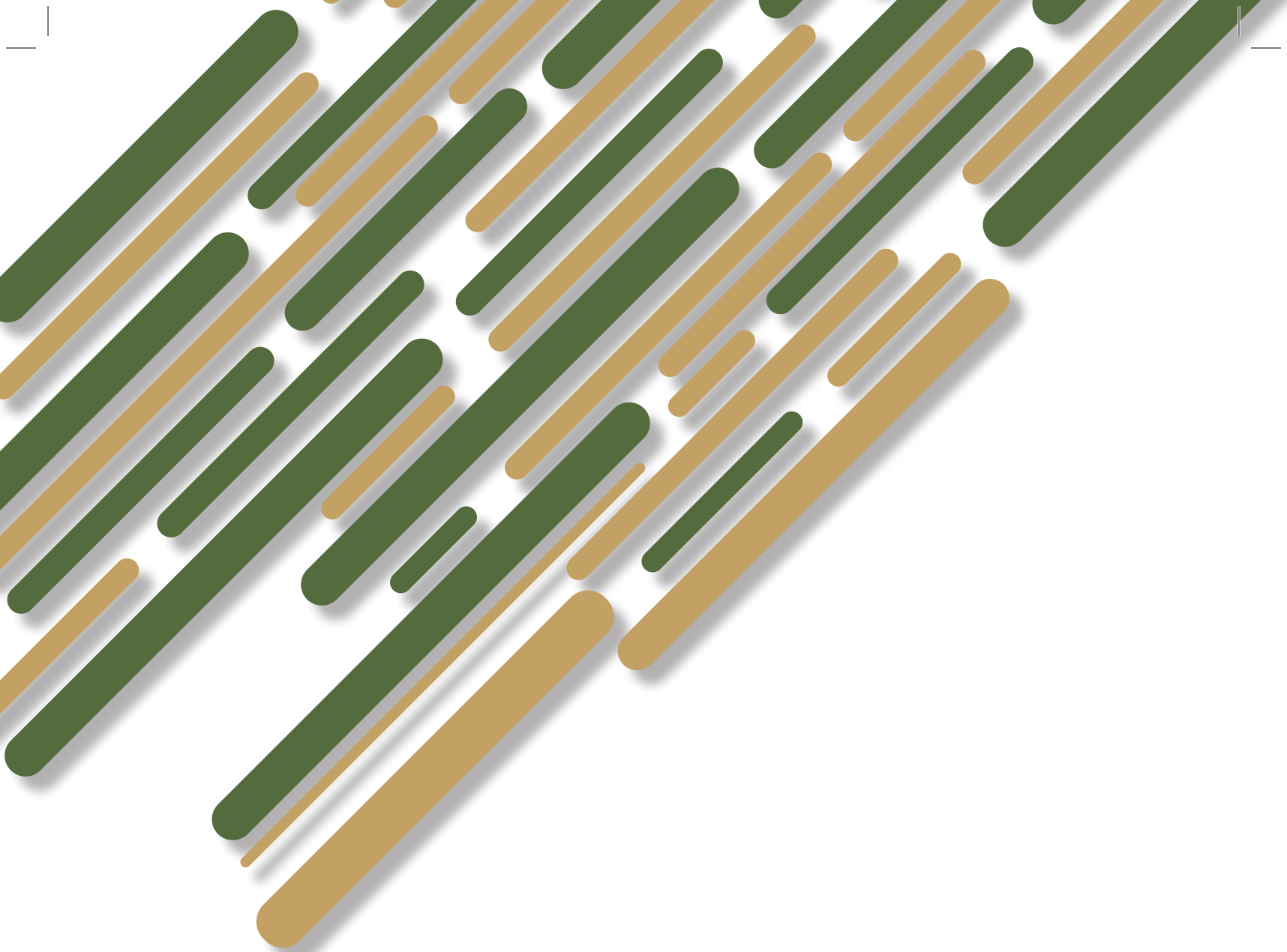




SUMMER CROP

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OPEN POLLINATED GRAIN SORGHUM

MACIA

MACIA is a white grained, open pollinated variety from ICRISAT. It is a medium maturity variety with good disease tolerance and can be grown throughout the country, but particularly in areas where maize is a high risk, crop Sorghum has a high drought tolerance and is likely to produce a crop even in years of less than average rainfall. MACIA produces very uniform robust plants with bold compact heads. The plants are shorter than SV2.

Scientific Information:

Open pollinated (pure line) variety selected from pedigree M91057 (SDS3220)

Height:Dwarf – Semi-dwarf 1.3 – 1.5m with thick stem

Colour:Tan plant

Leaf Shape:Broad and drooping, stays green at maturity and after harvest.

Head/ panicle shape and size:Semi-compact, large and bulbous

Head/ panicle exertion:Good, 10 – 15cm.

Tillering:Mostly does not tiller, average 1.2 tillers per plant

Maturity:Early to Medium maturing 60 – 65 days to 65% heading and 115 – 120days to maturity.

Grain Characteristics:

Colour: Creamy White

Grain Size: Medium

Grain Texture: Corneous and hard, 3.8 out of 5.0 (hardest score on scale 1.0 – 5.0)

Glume Colour: Straw, inconspicuous in size, easily threshable.

- Seed colour: Tan
- Tilling: 1.2
- Plant height: 1.3m - 1.5m
- Thick Stem
- Maturity: Early to Medium



Testa (seed coat): Absent

Tannin content: Absent 0.0

Milling:Excellent milling quality, 80% flour yield, white flour.

Adaptation:Drought Resistant, adapted to loam, sandy loams and sandy soils in short season areas (>100 days) with average 250 – 750mm rain- fall. Resistant to aphids and common leaf diseases.

Yield Potential:3.0 to 6.0 tonnes / ha

Utilisation:

- Dual purpose of grain and crop residue for:
- Food in porridge;
 - Food in bread as composite flour (20% sorghum: 80% wheat)
 - Animal feed in poultry as grain, live stock

OPEN POLLINATED GRAIN SORGHUM

NS5751

RED SORGHUM, HIGH TANNIN

NS5751 is an NON-GMO open pollinated grain sorghum with very good uniformity and threshability.

NS5151 grows most successful in regions where the annual rainfall ranges from 400 to 800 mm, but is mostly planted where rainfall is below average for maize production. High humidity may sometimes affect seed set. This produce is more tolerant to drought in comparison with most other grain crops.



Kind	Open Pollinated
+/- Days to 50% Flower	75 - 80
+/- Days to Harvest	135 140
Plant Height	120cm
Uniformity	2*
Standability	2*
Threshability	2*
Headsmut Tolerance	3*
Leaf Disease and Stem Rots	3*
Ear Type	Half Open
Grading	GH
Seed Colour	Red

*1 =Excellent
9 = Poor

DRY BEANS

CAP 2001

Speckled Sugar Bean (Cranberry)

CAP 2001 has a determinate, bush type growth habit and should be planted at a 20% higher plant population (approx. 90kgs per ha). It's growing season is approximately 100 - 120 days. There are roughly 10 seeds for every 50 grams of product.

It is important to note that this variety is a speckled sugar bean with a cranberry shape which is oval rather than kidney shaped.

In terms of lodging it is considered to be moderately susceptible, however it is moderately resistant to rust. CAP 2001 has a yield potential of 4 mt plus per hectare. Mechanical harvesting is possible if a high enough plant population is planted. CAP 2001 is usually ready to harvest 3-4 weeks before most other sugarbean varieties.



- Growth Habit: Determinate, Bush type
- Growing season: 100-120 days
- Moderate resistance to rust
- Plant population: 188 000 plants per Ha (90-100kg/Ha) under irrigation
- Yield potential: 3 Mt/Ha
- Moderate resistance to Sclerotinia
- Speckled sugar Bean (Cranberry shape)
- Average planting rate of 75kg./ha



DRY BEANS

CAP 2000

Speckled Sugar Bean (Cranberry)

CAP 2000 has an indeterminate, runner type growth habit with a few short and upright branches. It is also known to grow after flowering. It has a growth season of approximately 100 days, which allows it to be planted earlier than CAP 2001. In every 50 grams of product there are 10 seeds.

It is important to note that this variety is a speckled sugar bean with a cranberry shape which is oval rather than kidney shaped.

It is moderately susceptible to lodging with a good resistance to shattering. It is also moderately resistant to rust.

CAP 2000 has a yield potential of 4 mt plus per hectare.

- Growth Habit: Indeterminate, Runner type
- Growing season: 90-100 days
- Susceptible to rust in humid environments
- Plant population: 150 000 plants per Ha (90kg/Ha) under irrigation
- Yield potential: 4 Mt/Ha
- Moderate resistance to Sclerotinia
- Speckled sugar Bean (Cranberry shape)
- Average planting rate of 75kg./ha





DRY BEANS

CAP 2001 / CAP 2000

Drybeans Trials		2009 / 10			2010 / 11	
		Cap 2000	Cap 2001	C.V. %	Cap 2000	C.V. %
Planting Dates						
	at Kokstad	11.12.2009	11.12.2009		09.12.2010	
	at Swartberg	09.12.2009	09.12.2009		14.12.2010	
	at St. Bernard's Peak	10.12.2009	10.12.2009		-	
Seeding Rates		180 000 pph			180 000 pph	
Row Spacings		75cm apart			75cm apart	
Disease Control		Fungicide fortnightly from flowering		Managed throughout the season		
Fertilization					Optimal for a 3t/ha yield	
Date at 50% Flowering		29.01.2010	25.01.2010		-	
Date at Physiological Maturity		07.04.2010	01.04.2010		08.04.2011	
Date of Harvest						
	at Kokstad	07.04.2010	07.04.2010		12.04.2011	
	at Swartberg	07.04.2010	07.04.2010		29.04.2011	
	at St. Bernard's Peak	07.04.2010	07.04.2010		-	
Plant Populations at Harvest						
	at Kokstad	120 046	135 395	7	134 479	9
	at Swartberg	101 260	136 770	10,9	117 984	9,2
	at St. Bernard's Peak	74 227	121 420	13,9	-	
Yields (t/ha)						
	at Kokstad	3194	3285	5,6	3290	12
	at Swartberg	2731	2843	13,2	4810	15,6
	at St. Bernard's Peak	2456	2577	15	-	
Comments		If pph of 180 000 were adhered to, higher yields could have been obtained.			Despite a lower plant pop, excellent yields were obtained in Swartberg. Although the climatic conditions at Kokstad were drier & warmer, good yields were obtained.	

SOYA BEANS

FUNDACEP 65RR

OVERVIEW

FUNDACEP 65RR allows early sowing and harvesting which makes it ideal for early planting and double cropping. It has excellent yield potential.

FUNDACEP 65RR is known for high productivity, resistance to lodging and good health. It is an early cycle soya bean with a maturity group of 6.0. It has a high pod height which allows for easy harvesting and as a result limited wastage. It has an indeterminate growth type and is resistant to lodging.

100 grains weigh approximately 14.4 grams. It has a white flower colour and Grey pubescence with a light brown hilo colour.

- High productivity
- Good Health
- Medium Cycle
- Maturity Group: 6.0
- Glyphosate Tolerant



Variety	Fundacep 65RR
Productivity	High
Resistance to lodging	Good
Plant Health	Good
Cycle	Medium
Maturity Group	6.0 - 6.2
Plant Height	High
POD Height	High
POD Height (cm)	18
Growth Type	Indeterminate
Fertility	High
100-grain weigh (gram)	14.4
Combined Yield Analysis (kg)	3941
Flower Colour	White
Pubescence Colour	Grey
Hilo Colour	Light Brown

Varieties	Pod Height (cm)	Combined Yield (kg)
PAN1664R	20	4 011.78
FUNDACEP 65RR	18	3 941.22
PHB95Y20R	16	3 846.81
PAN1583R	20	3 635.06
PAN737R	20	3 428.51



SOYA BEANS

DUNDEE (NON GMO)

OVERVIEW

This is a “medium short grower” soya variety. The flower colour is purple and they do have a more elongated leaf with quick dry down characteristics. During pubescence it's colour is brown.

The upright growth pattern of the plant means this variety is more suited to production under narrow rows (0.76m).

It takes longer to canopy hence the weed pressure would be more on wider rows.

Soil Fertility

Ineffective crop management, poor or no nodulating, acidic soil and low soil fertility all also play a role in soya bean quality.

Herbicide sensitivity

No soya bean cultivars are resistant to atrazine type herbicides and the full waiting period has to be enforced before planting.

- Yield average : 3.38 tons/ha
- Plant population: between 320 000 and 400 000 per Ha
- In a 6 maturity group
- Indeterminate growth habit with excellent standability
- Good seedshattering resistance
- Has average disease tolerance to rust



Characteristics	Cool	Moderate	Warm
Days to maturity	176	160	137
Pod height (cm)	13	14	7
Plant height (cm)	104	86	110
Yield mean tons/ha	2.87	3.38	2.78
Oil % on moisture free basis	17.40	19.19	20.80
Mass 100 seeds (g)	16.90	20.33	20.47
% crude protein	36	36.50	36.00

SOYA BEANS

HERON (NON GMO)

OVERVIEW

This is a “medium grower” soya variety with oval leaf with slow dry-down characteristics. Can be planted in 90cm or narrow 40cm rows.

It canopies quickly because it is a bushy type variety. It is average on rust and does have tolerance to nematodes.

Yield average: 3.61 tons/ha.



SOYA BEANS

EGRET (NON GMO)

OVERVIEW

This is a “medium grower” soya variety with oval leaf with very slow dry-down characteristics. Can be planted 90cm or narrow 40cm rows.

It canopies quickly because it's a bushy type plant but showed more signs of rust than the other two varieties; Dundee and Heron, maybe because of it's density.

Yield average: 3.65 tons/ha.



SOYA BEANS

CAP 2258 IPRO

OVERVIEW

Intacta RR2 Pro contains the technology that offers resistance to Bollworms as well as the new RR2 Gene with increased yield potential.

- Indeterminate
- Medium-Early
- Average Yield 4.5mt/ha
- Tolerant to leaf rust
- Flower colour - Purple

Number of days to 50% flowering	54
Number of days until harvest	137
Maturity Group	5.8
Plant height	104
Pod height	19
Tolerance	Good
Yield potential	Good
Growth type	Indeterminate



SOYABEAN ZAMBEZI

EARLY

MEDIUM

LATE

High-Yielding Soyabean Variety

ZAMBEZI is a high-yielding soyabean variety capable of producing up to 5.5 tons per hectare under good management practices. It matures within 130 to 140 days, depending on altitude.

The variety shows good tolerance to common diseases such as leaf spot, rust, and bacterial blight. It is also a good companion to all currently available soyabean varieties in Zimbabwe.

ZAMBEZI is ideal for farmers seeking a reliable, disease-tolerant variety that performs well under irrigation and is well adapted to the diverse agro-ecological conditions.

- Indeterminate
- Medium Height (Approx. 1 meter)
- Good overall standability
- Performs well under irrigation



HYBRID GRAIN SORGHUM

CAP1002

Red Hybrid, High Tannin

CAP1002 is a dual purpose sorghum as it can be used for both grain and silage. It has a plant height of 180cm and reaches 50% flowering at around 75 days. It is resistant to root rot and has a compact head density. It is medium tillering but has a high resistance to MDMV. The stem palatability and digestibility are very good. It is highly bird proof due to the tannins in the grain.

Kind	Hybrid
+/- Days to 50% Flower	75
Height Maturity	200cm
Lodging Behavior	Resistant
Tanin Content	High Bird Proof
Tillering	Medium
MDMV Resistance	High
Head Density	Compact
For silage, harvest should be done at soft dough stage with a particle size of 1 in maximum.	



HYBRID GRAIN SORGHUM

CAP 1003

RED HYBRID, HIGH TANNIN

CAP 1003 is a shorter grower with a height maturity of 140cm. It takes approximately 70 days to reach 50% flower. It is noted as being resistance to lodging behavior. It is highly bird proof due to the high tannin content. It has a medium tillering profile and high resistance to MDMV. CAP 1003 has a Semi Lax head density.

Kind	Hybrid
+/- Days to 50% Flower	70
Height Maturity	140cm
Lodging Behavior	Resistant
Tanin Content	High Bird Proof
Tillering	Medium
MDMV Resistance	High
Head Density	Semi Lax
Medium/long cycle with a grain yeild of 7.5 mt/ha	

Plant hoogte (cm) vir verskillende sorghum genotipes by gedurende 2011-2012 seisoen
Plant height (cm) for different sorghum genotypes during 2011-2012 season

Genotipe	Potchefstroom B/I	Bethlehem	Gem Mean
Genotypes			
CAP1003	168,3	140,0	154,2
CAP1004	190,0	120,0	155,0
DOMINATOR	141,7	110,0	125,9
ENFORCER	145,0	105,0	125,0
NS5511	171,7	135,0	153,4
NS5655	143,3	120,0	131,7
PAN8625	166,7	110,0	138,4
PAN8816	163,3	105,0	134,2
PAN8909	146,7	95,0	120,9
PAN8911	133,3	110,0	121,7
PAN8919	133,3	95,0	114,2
PAN8920	142,0	110,0	126,0
PAN8923	126,7	90,0	108,4
PAN8924(W)	136,7	90,0	113,4
TIGER	136,7	105,0	120,9
Gem/Mean	152,9	110,3	131,6
B/I = Besproeiing / Irrigation			



HYBRID GRAIN SORGHUM

CAP 1004

WHITE HYBRID, LOW TANNIN

CAP 1004 has a duration of 100-105 days and a plant height of 180-190cm. It has a dark green leaf colour and semi erect leaf position. The stem is regarded as being thick with an earhead exertion that is exerted and an earhead shape that is long and cylindrical. It's earhead is semi compact.

It has a straw coloured glume with medium bold seed size. 1000 seeds weigh around 28-30 grams. It has an easy thresh ability.

Kind	Hybrid
+/- Days to harvest	100-105
Plant Height	180-190
Leaf Colour	Dark Green
Leaf Position	Semi Erect
Stem Thickness	Thick
Earhead Exertion	Exerted
Earhead Shape	Long Cylindrical
Earhead Compactness	Semi Compact
Glume Colour	Straw
Seed Size	Medium Bold
1000 Seed Weight (g)	28-30
Thresh Ability	Easy



Plant hoogte (cm) vir verskillende sorghum genotipes by gedurende 2011-2012 seisoen
Plant height (cm) for different sorghum genotypes during 2011-2012 season

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NS5655	143,3	120,0	131,7
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PAN8816	163,3	105,0	134,2
PAN8909	146,7	95,0	120,9
PAN8911	133,3	110,0	121,7
PAN8919	133,3	95,0	114,2
PAN8920	142,0	110,0	126,0
PAN8923	126,7	90,0	108,4
PAN8924(W)	136,7	90,0	113,4
TIGER	136,7	105,0	120,9
Gem/Mean	152,9	110,3	131,6

B/I = Besproeiing / Irrigation

HYBRID GRAIN SORGHUM

CAP 1005

RED SORGHUM, LOW TANNIN

CAP 1005 is a hybrid grain sorghum with very good uniformity and threshability.

On average CAP 1005 takes approximately 80-85 days to reach 50% flower, and can be harvested after 140-145 approximately. This variety can reach heights of up to 155cm at maturity.

Notably CAP 1005 has good stand-ability, head-smut tolerance and leaf disease and stem rots tolerance.

CAP 1005 makes for an all-round great sorghum for both silage and grain.



Kind	Hybrid
+/- Days to 50% flower	80-85
+/- Days to harvest	140-145
Plant Height	155cm
Uniformity	2*
Stand-ability	3*
Threshability	2*
Head-smut Tolerance	3*
Leaf disease and stem rots	3*
Ear Type	Half Open
Grading	GM
Seed Colour	Red

*1 = Excellent
9=Poor

- Very high stand-ability
- Great threshability
- Red seed colour
- GM grading

Sorghum cultivars:

Are they suitable for malting and milling?

DR CONSTANCE CHIREMBA, AGRO-GRAIN CROPPING INSTITUTE

Most of South Africa's sorghum is malted for use in opaque or local beer production and also as malted porridges. The use of some of the sorghum grain for dry milling is increasingly becoming important in the sorghum industry.

For malting, sorghum cultivars are grouped into GM (malting, non-tannin), GH (malting, tannin) and GL (non-malting, non-tannin) classes. Malting quality is measured in terms of diastatic power (DP).

Diastatic power is a measure of the combined amylase enzyme activity to ensure that the malt has sufficient enzymes to break down starch to the desirable quantity of fermentable sugars during the brewing process. In dry milling, hard grain cultivars are preferred for high extraction rates. Sorghum hardness is the most important criteria for determining milling potential.

One of the methods of determining sorghum grain hardness is by removing or abrading the outer layers of the kernel using a Tangential Abrasive Detubing Device (TADD). The principle of the test is that if the grain is hard, it will not abrade easily compared to soft grain. Hence, after abrasion, hard cultivars will retain more of their weight than soft cultivars.

Hard sorghum also impacts on product quality, for example hard grain produces non-sticky porridges, which are preferred by consumers. Therefore, there is a need to evaluate commercial sorghum cultivars for their suitability for both malting and milling to ensure a viable market and high product quality.

For the 2011/2012 summer cropping season, the average DPs for the GM and GH classes were 43 and 52 SDU/g malt, respectively. All the new cultivars (PAN 8925, PAN 8926, PAN 8927, PAN 8928 and PAN 8929) qualified for the GM class, benchmarked against the average DP of GM standard cultivars PAN 8816 and NS 5655.

Table 1 shows DPs of all cultivars tested. None of the new cultivars were tannin types. Germination was also very high in all localities (at least 90%), resulting in high quality malt. Only non-tannin cultivars were evaluated for hardness as tannin cultivars are generally soft and have poor milling properties.

The mean TADD hardness (percentage kernel removed) after abrading sorghum grain, was 42% (Table 1). All the new cultivars, except PAN 8927, showed higher milling potential. ■



TABLE 1: DIASTATIC POWER AND HARDNESS OF SORGHUM CULTIVARS DURING 2011/2012.

Cultivar	DP (SDU/g malt)	TADD hardness (% kernel removed)
PAN 8816	38	44
DOMINATOR	42	47
TIGER	47	44
ENFORCER	40	42
NS 5655	47	37
CAP 1002	47	45
CAP 1004	41	39
PAN 8925 (N)	46	36
PAN 8926 (N)	45	39
PAN 8927 (N)	47	59
PAN 8928 (N)	49	39
PAN 8929 (N)	48	34
PAN 8825*	52	ND
NS 5511*	53	ND
CAP 1003*	52	ND

* Determined proof sorghum
(N) New cultivars
ND: Not done

HYBRID GRAIN SORGHUM

ARROW - EARLY MATURING

SWEET RED, LOW TANNING

Arrow is an early maturing hybrid grain sorghum with excellent yield potential. Arrow has semi-open head type and excellent hybrid vigour.

Performance

Arrow displays medium lodging resistance and has an attractive red grain colour. Arrow adapts well across most environments and systems. It is suitable for both dryland and irrigated production.

Arrow has good disease resistances and a provisional midge rating of 4.

Tolerance to stress across most environments.

Kind	Hybrid
+/- Days to flowering - Spring	67-70
+/- Days to flowering - Summer	61-67
Seed Colour	Red
Semi	Open head type
Grain Size	Medium/large
Tillering habit	Medium
Maturity	Early
Lodging Resistance	Medium
Provisional Midge Rating	4
Disease Resistance	Good

- Dryland marginal: 30 - 50,000 plant population
- Dryland good: 50 - 75,000 plant population
- Irrigation: 90 - 140,000 plant population



HYBRID GRAIN SORGHUM

NS5511

RED SORGHUM, HIGH TANNIN

NS5511 is a NON-GMO hybrid grain sorghum with very good uniformity and threshability.

On average NS5511 takes approximately 80-85 days to reach 50% flower, and can be harvested after 140-145 approximately. This variety can reach heights of up to 150cm at maturity.

Notably NS5511 has excellent standability, headsmut tolerance and leaf disease and stem rots tolerance.

NS5511 makes for an all-round great sorghum for both silage and grain.

- Excellent stand-ability
- Excellent threshability
- Red seed colour
- GM grading



Kind	Hybrid
+/- Days to 50% flower	80-85
+/- Days to harvest	140-145
Plant Height	150cm
Uniformity	2*
Stand-ability	2*
Threshability	2*
Head-smut Tolerance	3*
Leaf disease and stem rots	3*
Ear Type	Half Open
Grading	GM
Seed Colour	Red

*1 = Excellent
9=Poor

HYBRID GRAIN SORGHUM

NS5655

RED SORGHUM, LOW TANNIN

NS5655 is a hybrid grain sorghum with very good uniformity and threshability.

On average NS5655 takes approximately 80-85 days to reach 50% flower, and can be harvested after 140-145 approximately. This variety can reach heights of up to 155cm at maturity.

Notably NS5655 has good stand-ability, head-smut tolerance and leaf disease and stem rots tolerance.

NS5655 makes for an all-round great sorghum for both silage and grain.

- Very high stand-ability
- Great threshability
- Red seed colour
- GM grading



Kind	Hybrid
+/- Days to 50% flower	80-85
+/- Days to harvest	140-145
Plant Height	155cm
Uniformity	2*
Stand-ability	3*
Threshability	2*
Head-smut Tolerance	3*
Leaf disease and stem rots	3*
Ear Type	Half Open
Grading	GM
Seed Colour	Red

*1 = Excellent
9=Poor

HYBRID POPCORN

CAPPOP 5636

HIGH YIELDING/EXPANSION

It has medium/large orange kernels that perform very well when popped in a microwave and in oil.

HYBRID CHARACTERISTICS:

Hybrid Type	Single Cross
Grain Color	Orange
Cycle / Relative Maturity	Medium (125)
Days to Flowering	75
Days to Maturity	125-130
Plant height cm	220
Ear type (shape - rows - grains)	Cylindrical 16/18 rows
Prolificity	Very prolific
Harvest Density pls / ha (52-70)	65,000
Behavior Tip Filling	Excellent
Stay green	Excellent
Stress tolerance	Very good
Performance Potential	Very high
Adaptation Zone	Sub Tropical

BEHAVIOR/TOLERANCE TO:

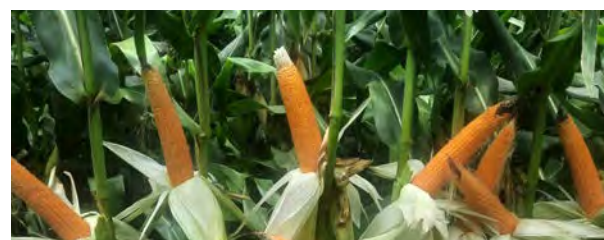
Foliar diseases / rust	Very Tolerant
Virus- MRC	Intermediate / High
Spike diseases	Very Good
Basal rot	High
Smut	Tolerant
Rust VG/Leaf blight	Intermedium

- Grain yield potential - between 8 - 9 mt/ha under ideal conditions.
- 10 Kernels = grams 62
- Plant population under dryland - if low yield is expected 30000 seeds and up to 65000 seeds for higher yield expectation.
- Plant population under irrigation - 75000 (12.5kg seed) - 90000 seeds per hectare depending on yield expectation.
- Recommended seed treatment - Maxim+Cruiser
- Sensitivity to herbicides - No different to ordinary maize - IML tolerant



COMMERCIAL QUALITY:

Expansion	High 42/43 cc / gr
K10	Medium Large 62
% On screen 6	High
Commercial appearance	Excellent
Rosette type	Butterfly



HYBRID SUNFLOWER

CAP 4064

MEDIUM -LATE MATURING

With exceptional self-compatibility, this high yielding sunflower hybrid has proven itself around the world as a top performer. CAP 4064 is a medium-late maturity hybrid with excellent standability and disease resistance.

Medium/Full Season Maturity

CAP 4064 is a medium-late maturing variety that reaches 50% flower in approximately 75 days. Harvest can be expected in approximately 140 days, depending on conditions.

Yield Potential

CAP 4064 consistently produces excellent yields in both trials and farmer's fields. It's standability is excellent, aided by thick stalks and vigorous growth.

Disease Resistance

CAP 4064 has an excellent level of disease tolerance to the major sunflower diseases including leaf rust, albugo white blister and Alternaria.

Oil Production

CAP 4064 is a consistently high producer of poly unsaturated oil. This makes it a popular choice with both farmers and crushers.



Semi—pendulous Heads

CAP 4064 has semi-pendulous heads which helps to reduce sunburn, head rot and bird damage. Its excellent self-compatibility is useful when native pollinators or bees are low in number.

HYBRID SUNFLOWER

CAP 4000

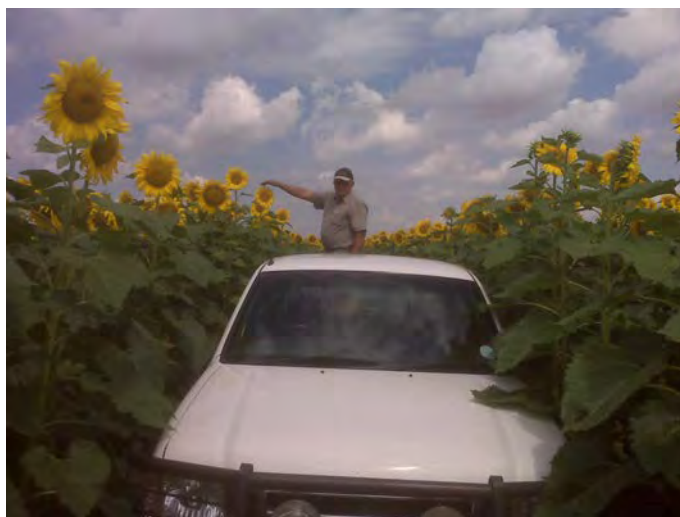
CAP 4000 is a medium to full season maturity variety which enables it to maximize yield in a wide range of conditions.

It has shown excellent yield potential in testing and production through-out the world since commercial release.

CAP 4000 has an excellent level of resistance to the major sunflower diseases including leaf rust, albigo white blister and alternaria.

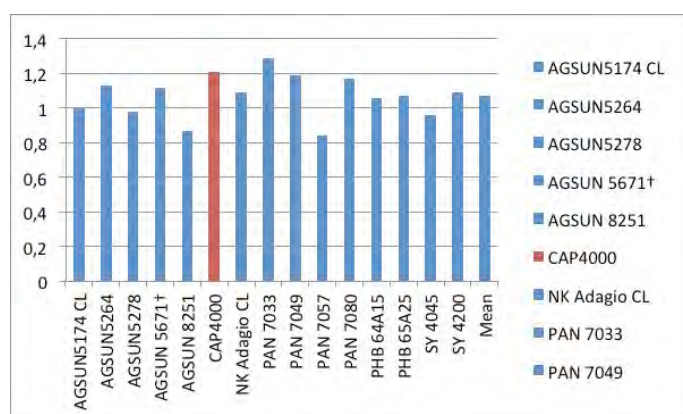
CAP 4000 produces a very good oil percentage with a high level of poly-unsaturated oil. It also has many other desirable agronomic traits including high levels of lodging resistance from thick stalks. It has semi-pendulous heads which help to reduce sunburn, head rot and bird problems.

Maturity	Full Season
Yield Potential	Excellent
Disease Resistance	Excellent
Oil Production	Very good
Heads	Semi-pendulous
Oil%	42-46

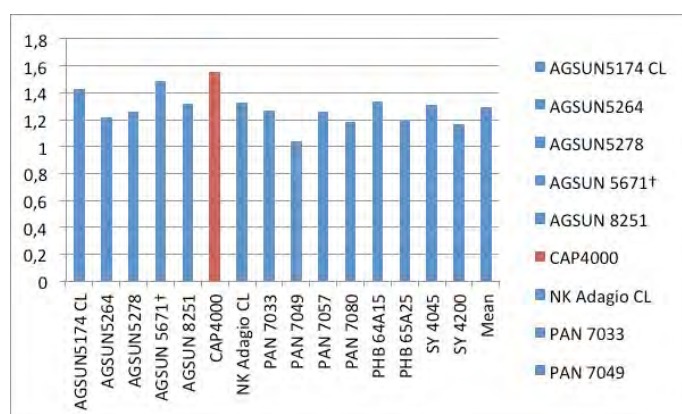


	Bainsvlei 08/12/2011	Clarens 13/12/2011	Delareyville	Kroonstad	Kroonstad 04/01/2012	Potchef- stroom 14/11/2011	Potchef- stroom 22/11/2011	Potchef- stroom 07/12/2011	Potchef- stroom 19/12/2011	Potchef- stroom 11/01/2012	Potchef- stroom 20/01/2012	Settlers 20/01/2012	Viljoen- skroon	Mean
AGSUN5174 CL	2.35	1.89	2.9	1.68	0.7	2.79	1.8	1.3	1.68	1.45	1.43	1	1.3	1.71
AGSUN5264	3.27	1.78	3.1	2.33	1.46	3.82	1.79	1.5	2.6	1.32	1.22	1.13	2.36	2.13
AGSUN5278	3.33	2	3.49	2.17	1.53	3.9	2.04	1.45	3.05	1.18	1.26	0.98	2.03	2.19
AGSUN 5671†	2.22	1.72	3.53	1.67	1.46	3.36	1.86	1.34	2.02	1.28	1.49	1.12	1.99	1.93
AGSUN 8251	3.15	2.08	3.79	2.06	1.82	3.95	1.62	1.1	2.69	1.07	1.32	0.87	1.84	2.11
CAP4000	3.63	2.1	2.63	2.19	1.12	3.72	1.82	1.23	2.4	1.32	1.55	1.21	2.08	2.08
NK Adagio CL	2.58	2.16	2.69	1.69	1.19	3.1	1.79	1.33	1.88	1.16	1.33	1.09	1.41	1.8
PAN 7033	2.98	2.05	3	2.74	1.57	4.18	1.59	1.13	2.77	1.32	1.27	1.29	1.85	2.13
PAN 7049	3.47	2.66	2.99	2.5	1.75	3.76	1.91	1.25	2.97	1.38	1.04	1.19	1.72	2.2
PAN 7057	3.31	1.99	2.82	2.76	1.58	3.95	1.97	1.14	2.97	1.24	1.26	0.84	1.82	2.13
PAN 7080	4.09	2.18	2.95	2.56	1.36	4.17	1.81	1.03	2.84	1.42	1.18	1.17	2.47	2.25
PHB 64A15		1.77	2.96	1.73	0.93	3.25	1.82	1.42	2.16	1.59	1.34	1.06	1.78	1.82
PHB 65A25	2.71	1.96	3.11	2.49	1.1	3.54	1.77	1.17	2.83	1.42	1.19	1.07	1.9	2.02
SY 4045	2.7	1.76	2.52	1.81	1.41	3.46	1.91	1.44	2.45	1.42	1.31	0.96	1.84	1.92
SY 4200	3.88	2.28	2.67	1.88	1.15	3.53	1.61	1.33	2.69	1.26	1.17	1.09	2.43	2.07
Mean	3.1	2.03	3.01	2.15	1.34	3.63	1.81	1.28	2.53	1.32	1.29	1.07	1.92	
CV	(%)	11	14	13	14	19	7	12	16	12	15	18	9	20

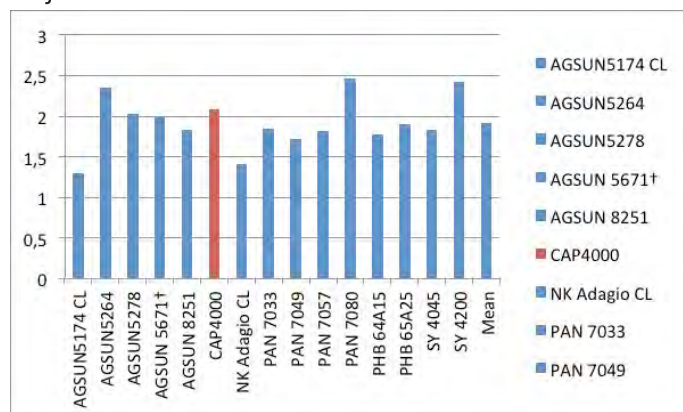
Settlers



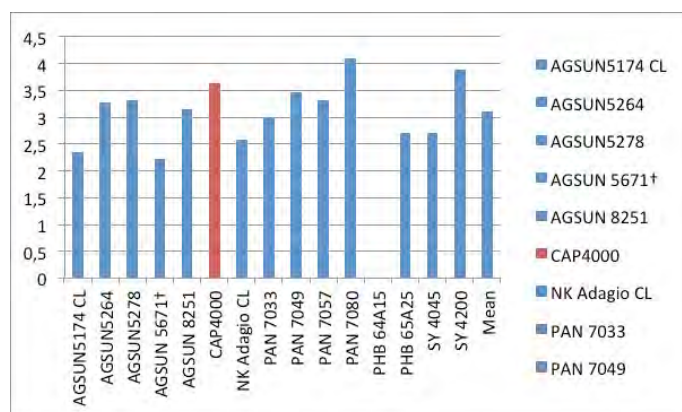
Potchefstroom



Viljoenskroon



Bainsvlei



HYBRID SUNFLOWER

CAP 4065

MEDIUM MATURING

CAP 4065 is a high yielding, medium maturity hybrid that consistently produces seed with a very high oil content. Coupled with excellent standability and a high degree of self-compatibility, CAP 4065 is the hybrid of choice for discerning growers.

Medium/Full Season Maturity

CAP 4065 is a medium maturing variety that reaches 50% flower in approximately 72 days. Harvest can be expected in approximately 140 days, depending on conditions.

Yield Potential

CAP 4065 produces excellent yields under a wide range of conditions. It has a consistently high oil content - a bonus when the market pays an oil premium to growers. CAP 4065 also has very good standability.

Disease Resistance

CAP 4065 has an excellent level of disease tolerance to the major sunflower diseases including leaf rust, albugo white blister and Alternaria.

Seed Quality

CAP 4065 produces seed of a very high quality, enabling a level of tolerance to weathering.



Semi—pendulous Heads

CAP 4065 has semi-pendulous heads which helps to reduce sunburn, head rot and bird damage. CAP 4065 has some of the highest self-compatibility levels commercially available. This is very useful when native pollinators and bees are low in number, or weather conditions at flowering do not favour pollinator activity.

HYBRID SUNFLOWER

AGUARA 6

OVERVIEW

AGUARA 6 is a medium to late-duration sunflower hybrid known for its high yield potential and stability across various environments. It offers strong resistance to both white and black rust, as well as stalk and root lodging, ensuring dependable performance even in challenging conditions. With an oil content of 40% to 42%, AGUARA 6 is an excellent choice for farmers seeking both reliability and profitability in sunflower cultivation.

Type of Oil	Linoleic
Herbicide Tolerance	No
Grain Type	Striped
Maturity	100 - 110 days
Days to 50% flowering	55 - 60
Yeild potential	2 - 3 MT/ha
Oil Content	40 - 42%
Head Height	180 - 190cm
Head Diameter	16 - 20cm

Plant Population (per hectare):

- High potential environment: 55 000 - 60 000
- Medium potential environment: 50 000 - 55 000
- Low potential environment: 40 000 - 50 000



GROUNDNUTS

AKWA

AKWA has a growth period of 150 days and a good resistance to Pod Nematode, Black Hull and Sclerotinia. It has a good yield potential and was developed by the ARC.

- Growth Period of 150 days
- Good Resistance to Pod Nematode, Black Hull and Sclerotinia
- Good yield potential



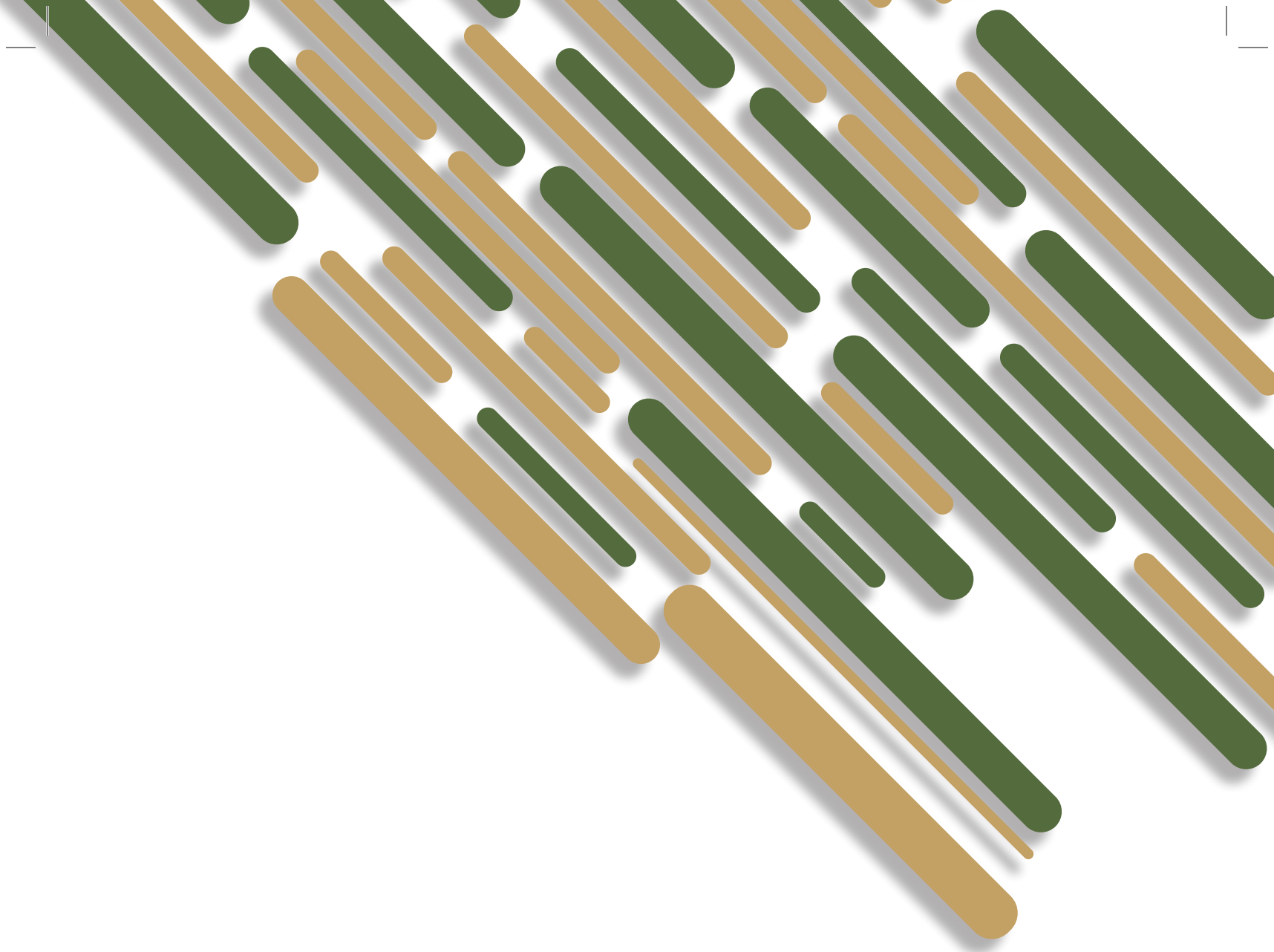
GROUNDNUTS

KWARTS

KWARTS has a wide area of adaptability and is recommended for both dryland and irrigation. It produces about 92% round kernels. Although the kernels are slightly smaller than those of comparable cultivars, a high percentage of choice grade nuts are produced.

- Wide adaptability
- Resistance to Pod Nematode
- Recommended for both dryland and irrigation
- 92% round kernels

KWARTS shows tolerance to the groundnut Pod Nematode and was developed by the ARC



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