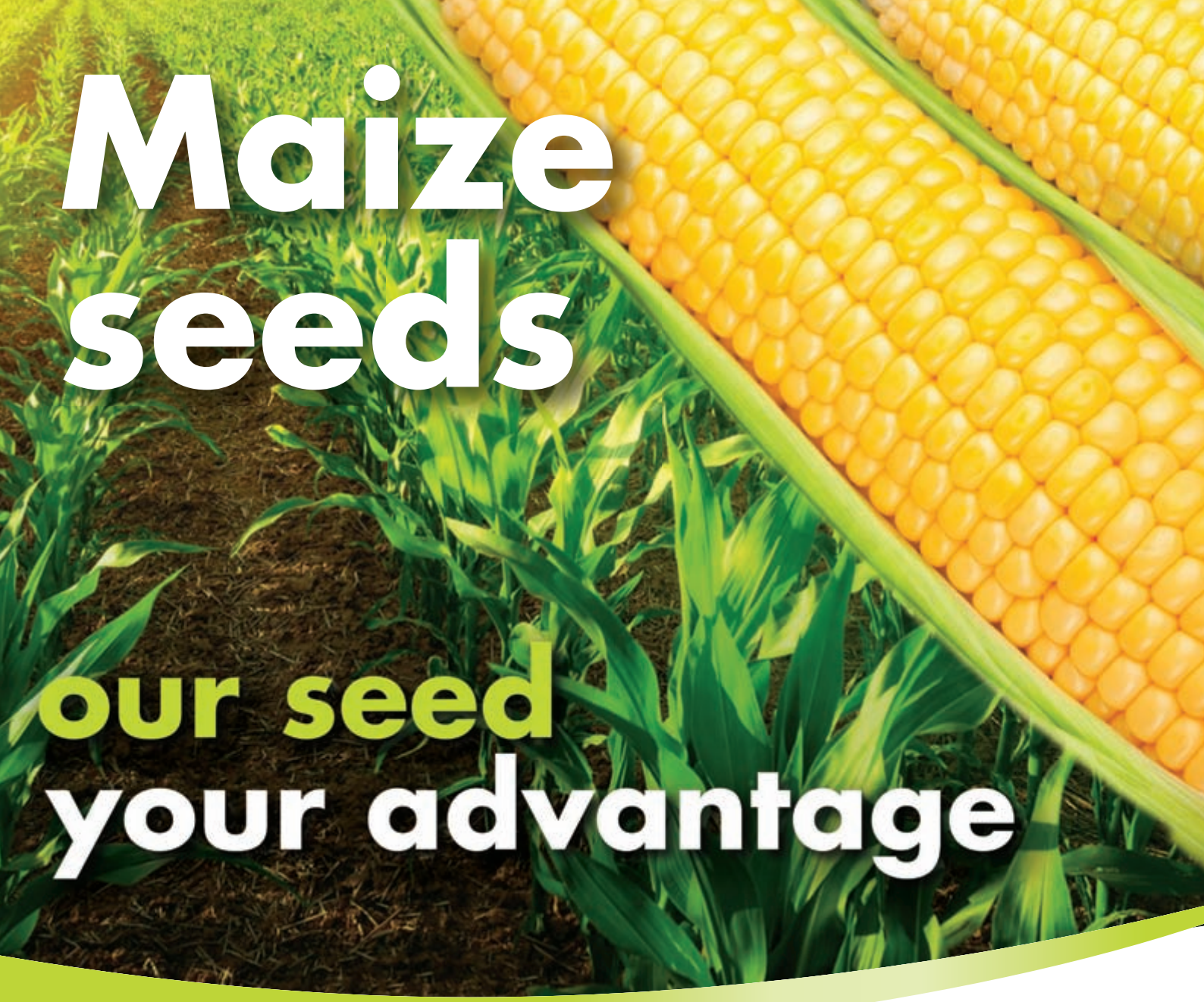

- Seed and seed treatment expertise
- Latest genetic material
- Screening, testing and evaluation of potential varieties
- Trial sites in different geographical regions of South Africa
- Specialising in tested varieties of:
  Vegetable, maize, oil (sunflower & soybean),
  cover crops and pasture seeds
- Specialist technical advice and support
- Professional seed specialists

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Maize is a short-lived annual summer crop. Globally, maize is one of the top produced cereals, used for human and animal consumption.

This crop grows best where 600 to 1500 mm rainfall per annum is available.

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Yellow Hybrid Package

Ultra - Early

IMP 50-10B
IMP 50-10R
IMP 50-10BR

This range of hybrids offers high yield potential. The plants are single-stemmed and mainly single-cobbed with excellent standing ability.

The IMP 50-10 range should only be planted at high plant population rates (80 000) under complete irrigation systems. ARC trials conducted over the past few years have shown this range to be highly stable and adaptable to all production areas. This range of hybrids also offers the technical advantage of the protection against stalk borer and tolerance against glyphosate herbicides.

Medium-Early

IMP 52-12
IMP 52-12R
IMP 52-12BR

This range of hybrids are well adapted to the Eastern Highveld and KwaZulu-Natal. They tend to tiller very little and possess excellent grain qualities, while exhibiting good tolerance to cob and leaf diseases. Agricol recommends this range as part of the producers main planting for the Eastern production areas. IMP 52-12 performed very well in ARC trials over the past two years.
The range offers producers the option of conventionalism, tolerance to glyphosate herbicides, and protection against stalk borer.

IMP 52-22BR

This range of hybrids performs well in the Western production areas. Lower plant populations are recommended due to the plants' good multi-cob and productive tiller-forming traits.

The range offers benefits that include rapid grain dry-off, good standing ability, and a good ability to withstand drought and heat.

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Yellow Hybrid Package

Medium

Sc 608

This hybrid is well adapted to the western and Eastern production areas. It delivers above-average grain yields and offers good resistance to northern leaf blight and grey leaf spot.

The hybrid possesses excellent characteristics due to its slower grain drying abilities, lush growth and high grain component.

Sc 608 is strongly multi-cobbed and normally produces very few tillers. In the Western parts silage can be cut after approximately 110 to 115 days and in the Easterly parts after 125 to 135 days

Maize requires 450 to 600 mm of water per season, this is mainly acquired from the soil moisture reserves.

About 15 kg of grain are produced per millimetre of water consumed.
At maturity, each plant will have consumed 250 l of water.

What is it used for?

White Maize
Used for human consumption.

Yellow Maize
Used for human consumption.

Silage
It makes excellent silage. Additives to assist in the ensiling process are not required.

Cover Crops
Maize can be used as a cover crop to build organic matter in the soil, to remediate Caesium and Uranium in the soil by hyper-accumulation in the plant.

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White Hybrid Package

Ultra - Early

IMP 53-49B
IMP 53-49R
IMP 53-49BR

This is a powerful multi-cobbed hybrid that is very well adapted for lower plant populations in the Western production areas.

IMP 53-49B delivers top yields in the ARC trials.

The range offers producers the technological benefit of protection against stalk borer and tolerance to glyphosate herbicides.

It is recommended for main plantings in Northwest and the Western parts of the Free State.

Approximately 8 million tons of maize grain are produced annually in South Africa, on approximately 3,1 million hectares of land.

Successful maize production is dependent on the correct application of production inputs that will sustain the environment as well as agricultural production.

No other crop utilises sunlight more effectively than maize, interestingly its yield per hectare is the highest of all grain crops.

Maize is consumed directly and serves as a staple diet for some 200 million people in developing countries.

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PLANT POPULATION PER HECTARE ('000s)

MATURITY	HYBRID	WESTERN FREE STATE	EASTERN FREE STATE	NORTHWEST	AVERAGE EASTERN PARTS	COLD EASTERN PARTS	KZN	NORTHERN CAPE
ULTRA-EARLY	IMP 50-10B	80-100	80-100	80-100	80-100	80-100	80-100	80-100
	IMP 50-10B	80-100	80-100	80-100	80-100	80-100	80-100	80-100
	IMP 50-10BR	80-100	80-100	80-100	80-100	80-100	80-100	80-100
					40-55	45-60	45-60	
MEDIUM-EARLY	IMP 52-12 range		30-40		40-55	45-60	45-60	65-80
	IMP 51-22B	18-28	25-35	16-26				65-80
	IMP 52-11B	18-28	25-40	16-26	35-45	40-50	40-50	
	IMP 52-11R	18-28	25-40	16-26	35-45	40-50	40-50	
MEDIUM	IMP 53-49 range	18-28	25-35	16-26	30-40	40-45	40-45	
	Sc 608	18-28	25-35	16-26	35-45	40-50	40-50	50-60

AGRONOMIC TRAITS

		IMP 50-10 range	IMP 52-12 range	IMP 51-22 range	IMP 52-11 range	IMP 53-49 range	Sc 608
Relative number of days to 50% flowering	Warmer areas	57	61	61	62	65	65
	Cooler areas	70	73	73	74	78	78
Relative number of heat units to 50% flowering		690	710	715	720	735	735
Relative number of days to physiological maturity	Warmer areas	112	119	119	124	127	127
	Cooler areas	130	135	135	143	150	150
Characteristic rating							
Prolificy		7	6	3	4	2	2
Drydown rate		2	3	2	3	4	7
Standabillity		2	2	3	2	2	2
Productive tillers		8	4	2	3	3	8
Disease tolerance							
Northern leaf blight		5	4	5	4	2	1
Grey leaf spot		5	4	5	4	3	1
Rust		3	3	4	3	3	1
Maize streak virus		3	3	4	3	3	2
Diplodia head rot		2	2	3	3	3	2

REGARD **1 AS EXCELLENT** AND **9 AS POOR**

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