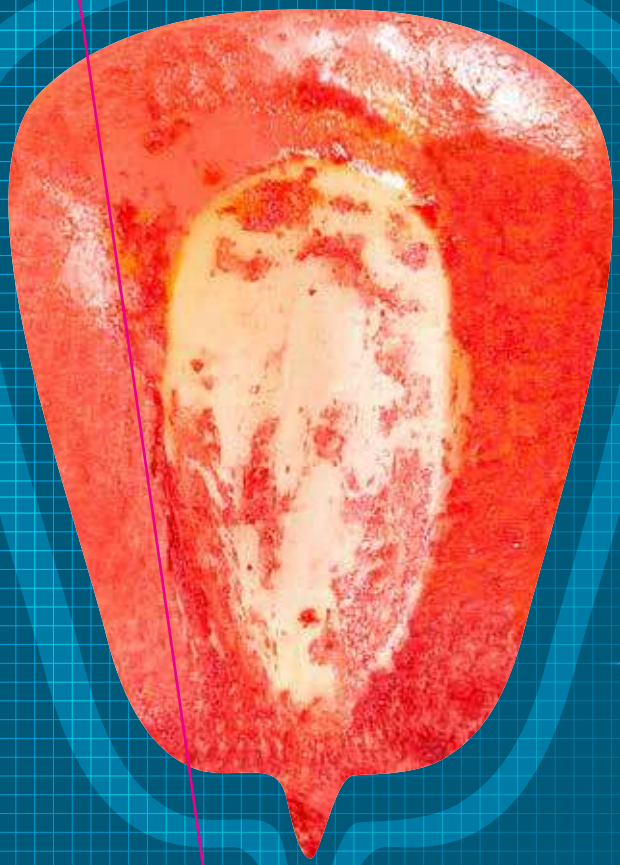
MAIZE

PRODUCT GUIDE 2022

YOUR MAIZE
OUR PASSION

Discover the
#DEKALBadvantage



ADVANCED GENETICS

ENHANCED PROTECTION

TAILORED RECOMMENDATIONS

SUPPORTIVE CROP PROTECTION

Discover the

#DEKALBadvantage

Content

The #*DEKALBadvantage*

Use this guide with confidence for all your planning.

DEKALB
SEED YOUR SUCCESS

Seed your success

The **DEKALB®** brand is synonymous with the innovative solutions and top-performing maize hybrids, supported by technology and development that we offer to our farmers to enhance productivity.

The genetic diversity of our hybrids form the basis of our breeding programme and offers a variety of hybrids to farmers to address their specific needs. Our technology offers built-in traits that help producers combat insects and pests, simplify weed control or simply increase productivity to ensure that you get the most out of every hectare.

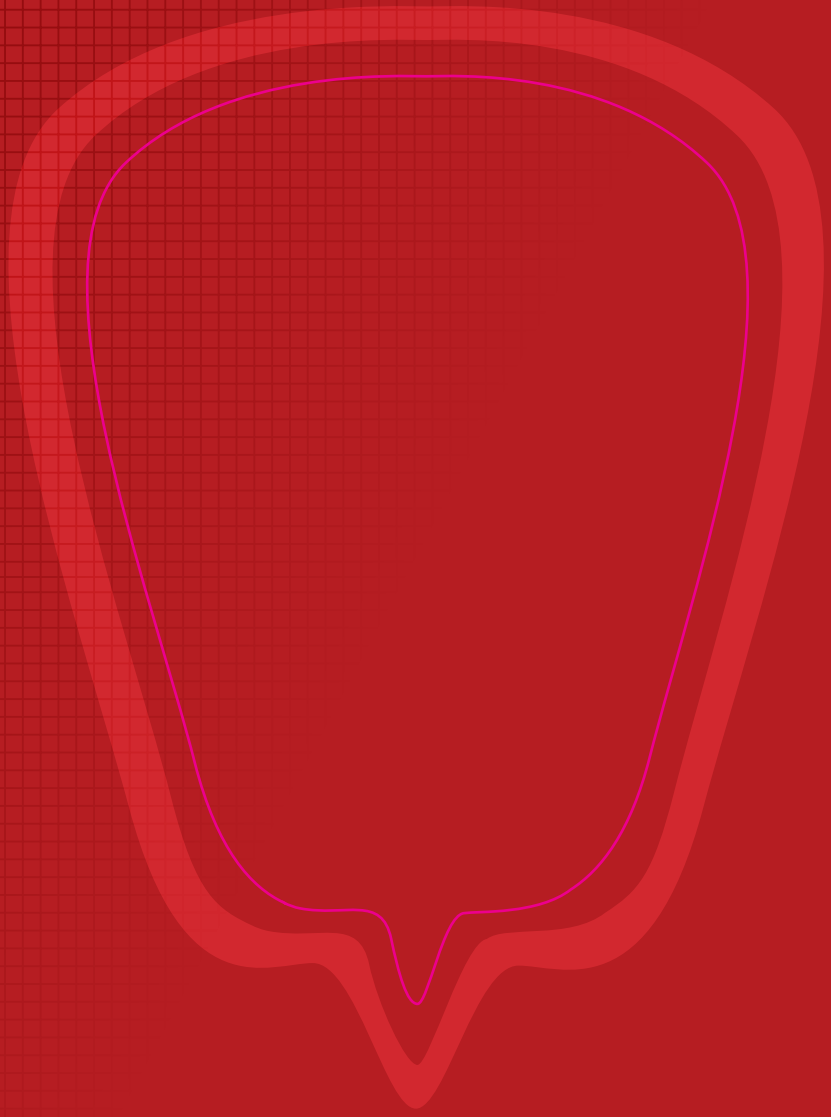
Our doors are always open and we invite our producers to work in partnership with us to create solutions for the challenges on your farm.

At **Bayer**, your pride and passion is our priority and form the foundation for everything that we do.

Partner with Bayer and let us make your pride our passion.

Your pride *our passion*

Explore technology that addresses all of your individual farming needs ...



ADVANCED GENETICS

ADVANCED GENETICS


DEKALB
SEED YOUR SUCCESS
ADVANCED
GENETICS
Discover the
#DEKALBadvantage

Advanced Genetics

What does the *#DEKALBadvantage* mean to you?

To us, it means more than just advanced genetics. It means optimised performance, maximised yields, hands-on support in your farming business and an exclusive portfolio of crop protection solutions to safeguard your crops against, weeds, insects and diseases this season. With a wide range of **DEKALB**® hybrids to choose from, including stacked traits, **Roundup Ready**® **MAIZE 2**, **YieldGard**® **MAIZE 2** and **conventional** hybrids, you can rest assured that you are planting your success this season.

Explore technology that addresses all of your individual farming needs ...

Discover the
#DEKALBadvantage

Gain an advantage ... seed success!

DEKALB

DEKALB
SEED YOUR SUCCESS

YieldGard MAIZE 2

Roundup Ready MAIZE 2

ACCELERON
SEED APPLIED SOLUTIONS

THE DEKALB® SUPPORT SOLUTION

Our elite seed genetics and innovative traits and technologies, that are synonymous with the **DEKALB®** range of maize hybrids, are specifically developed to meet your on-farm requirements.

Whether you need to combat insect pests, simplify your weed control efforts, or increase productivity, you can rest assured that you will be able to address all these needs on every hectare planted to **DEKALB®**. Getting the most out of every hectare means more food for our growing population.

In today's agricultural landscape, we understand the importance of making the most out of every kernel. That is why each bag of **DEKALB®** maize has been designed for easy on-farm use. Not only do the bags protect the seed, but they are also colour coded for easy identification of the specific biotechnology traits associated with the various **DEKALB®** hybrids.

DEKALB® stacked traits, YieldGard® MAIZE 2, Roundup Ready® MAIZE 2 and **conventional** seed bags are available in 80 000 kernel count.

For those who prefer to buy seed in bulk, we also provide **DEKALB®** maize seed in bulk seedboxes for improved storage and ease of use.

All seed bags contain the following useful information to better understand and use DEKALB maize to seed your success:

Stewardship – Certification that the seed conforms to a stewardship standard for biotechnology traits.

Scale indicates whether the bag has been opened and closed again.

Safety guidelines allow you to use the product to avoid harm to self, others and the planet.

Legal information including registration number etc.

Sticker with the hybrid's name, hybrid's number and treatment details.

Acceleron® seed treatment logo.

Colour of bag for trait identification.

SANSOR seed certification – The label shows that the seed conforms to certain seed quality standards.

Label at the bottom of the bag.

This information is duplicated at the bottom of the bag to enable reading of the hybrid identity when the bags are stacked.

What's in the bag?

/// WHITE MAIZE
- Blue
- Roundup Ready® MAIZE 2
- YieldGard® MAIZE 2
- Acceleron®

/// YELLOW MAIZE
- Blue
- Roundup Ready® MAIZE 2
- YieldGard® MAIZE 2
- Acceleron®

/// WHITE MAIZE
- Burgundy
- Roundup Ready® MAIZE 2
- Acceleron®

/// YELLOW MAIZE
- Burgundy
- Roundup Ready® MAIZE 2
- Acceleron®

/// WHITE MAIZE
- Green
- YieldGard® MAIZE 2
- Acceleron®

/// YELLOW MAIZE
- Green
- YieldGard® MAIZE 2
- Acceleron®

/// WHITE MAIZE
- Orange
- Acceleron®

/// YELLOW MAIZE
- Orange
- Acceleron®

DEKALB® BULK PACKAGING FOR YOUR CONVENIENCE

We know that the storage of seed can cause headaches before and during planting. Therefore, we also provide **DEKALB®** maize seed in bulk seedboxes to large commercial producers for improved storage and ease of use.

Seedboxes provide additional protection against dirt, moisture, pests and theft. These seedboxes are strong and durable and can carry loads of up to 1.25 ton. Multiple containers also interlock when stacked or nested for safe, secure storage. They can easily be moved by forklift, which significantly reduces the need for manual labour.

Each seedbox contains 2.5 - 3.5 million kernels depending on the seed size. The **DEKALB®** maize seed can be dispensed from the seedbox into the planter by means of an AgriCad trailer or a hydraulic system.

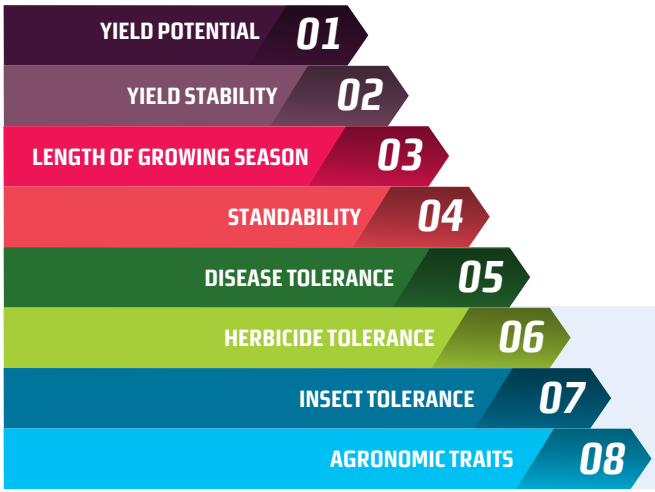
Most of the **DEKALB®** hybrid range is available in seedboxes and the offering also includes a range of **Acceleron®** seed treatments and seed sizes.

This is just another example of how **Bayer** is shaping agriculture to benefit farmers, consumers and our planet.

For further information:
Contact your nearest **DEKALB®** sales representative.

HYBRID CHOICE AND POSITIONING

As your trusted on-farm partner we are dedicated to ensuring that you maximise profit and optimise productivity. We not only support you with innovative technologies, excellent hybrids with a competitive disease protection portfolio, seed treatments and a wide crop protection portfolio but offer science-based recommendations and individualised support for your unique farming needs.



Hybrid characteristics
Choosing the right hybrid for the next planting season ranks as one of the most important upfront input investments that you will make.
Hybrid choice is a key element that can determine your yield and profit, even during stressful environmental conditions.

Hybrid choice boils down to choosing those hybrids best suited to your farming environment and management practices.

Hybrid placement or positioning is about getting the right hybrid on the right field to spread on-farm risks and ensure that all possible challenges are evaluated and catered for before planting.

The traits ranked in the diagram were identified by farmers as the most critical to their operations.

Consider the following key elements before making a choice

- Always **verify the data** and then interpret it to fit your own conditions.
- **Evaluate data across multiple trial localities.**
  Data from a single locality is one-dimensional and does not present a complete view of the yield potential of the hybrid. Evaluating hybrids across multiple localities allows producers to form an accurate picture of the hybrid and its stability. The acceptable norm is at least thirty localities.
- Use new technologies like **Climate FieldView™** to gather on-farm data to drive decisions.
- **Evaluate hybrid data from more than one season.**
  It is essential to evaluate hybrids across different growing seasons. Seasons differ and substantial variations in temperatures and rainfall can occur annually. We recommend that you consider data from at least three years.

DEKALB MAIZE HYBRID LIST 2022

- DKC68-50
- DKC71-46BR
- DKC72-76BR
- DKC72-72B
- DKC72-74R
- DKC72-70
- DKC73-74BR GEN
- DKC73-76R
- DKC73-70B GEN
- DKC73-72
- DKC74-74BR
- DKC74-26R
- DKC74-20
- DKC78-78BR
- DKC80-40BR GEN

- DKC75-65BR
- DKC76-77BR
- DKC76-73R
- DKC76-75B
- DKC76-71
- DKC77-77BR
- DKC78-45BR GEN

- DKC60-76BR
- DKC60-74R
- DKC61-60BR
- DKC62-37BR
- DKC62-35R
- DKC64-54BR
- DKC64-52R
- DKC65-52BR
- DKC65-60BR
- DKC65-72
- DKC66-66BR

The following aspects will influence hybrid choice and placement.

SOIL-TYPE

- Poorly drained soils – choose a hybrid with good stalk strength.
- Sandy dryland – look for higher prolificacy.
- Texture.
- Structure.
- Chemical analysis.

PLANTING DENSITY

- Look at hybrid recommendations as each hybrid reacts differently to planting populations.
- Adjust planting density according to the available moisture, the soil type and expected season.
- Hybrids respond with notable physical attributes such as tillers, husk cover, plant and ear height and prolificacy to planting densities.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.

HARVEST TIMING AND MATURITY MIX

- Take the frost window of your particular area into consideration.
- If you harvest late choose a hybrid with good standability.
- Different maturity hybrids spread the pollination window and reduce risk during heat stress.

CONTINUOUS MAIZE CONUNDRUM

- Maize on maize is generally a more stressful environment.
- Monoculture leads to the build-up of pathogens over time.
- Choose a hybrid rated for high-stress tolerance.
- Disease tolerance is important when choosing hybrids for a monoculture system as grain quality issues and lodging can have a huge impact on profitability.
- Knowing your prevalent diseases on the farm is important for hybrid placement.

NO-TILL NEEDS

- Choose a hybrid with strong early-season vigour and high emergence ratings.
- Choose disease tolerant genetics.

PLANT POPULATION RECOMMENDATIONS

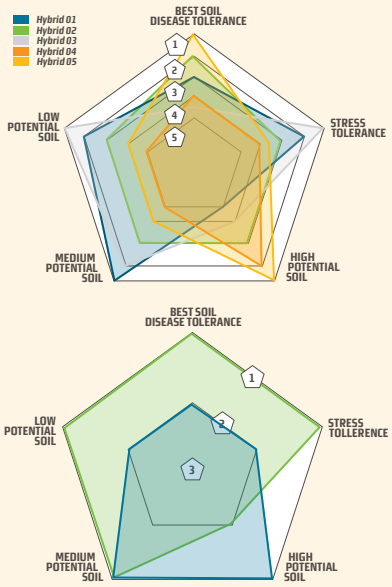
- Plant population optimisation is critical. To realise the highest profit per hectare, the correct plant population per hybrid in a specific environment is important.
- If plant populations are too high, seed costs can negatively influence the profitability of your farming practice.
- If there are too many plants in a field, stress conditions can be induced which has a negative effect on your yield potential.
- Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and the length of the growth season.
- As water (soil moisture and rainfall) is the most limiting factor for yield in South Africa, we did important population studies over different yield environments to be able to recommend plant populations for specific hybrids.
- There are vast differences between prolific and nonprolific hybrids regarding their reaction to plant density and environments.
- Plant population recommendations are based on multi-season data and experiences.
- Population recommendations should be verified per hybrid by the local **Bayer** representative in your area.
- Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

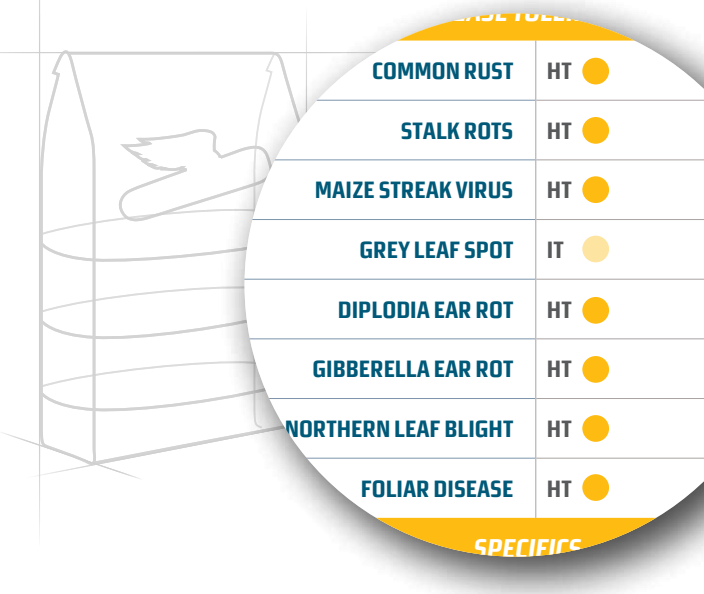
Read more on plant population at www.cropscience.bayer.africa/za/en-za/resources/articles/plant-populations.html

IMPORTANT FOR INTERPRETATION OF SPIDER GRAPHS

Spider graphs are used to show the relation of various maize traits and attributes with each other under certain conditions. All **DEKALB** hybrids contain superior genetics. The graphs aim to make it easier for you to place a hybrid on a specific field to address a specific need.

- Hybrids are ranked from low to high.
- 1 is the hybrid with the best outcome for the situation.
- The highests number, (for example) is the hybrid with the least suitable/advisable outcome for the situation.
- During hybrid placement, more than 1 factor can be important.
- Interpret different factors together to make sound decisions.
- Combine assumptions to position more than one hybrid.
- Use a process of elimination working through the spider graphs to end up with the best choices.
- Talk to your **Bayer** representative to help with the interpretation of graphs.





DESCRIPTOR CODE OR LEVELS AS FOLLOW:

HT – High Tolerance: Hybrid that highly restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to intermediate or low tolerant hybrids. The hybrid may, however, exhibit some symptoms or damage under heavy disease pressure.

IT – Intermediate Tolerance: Hybrid that restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure but may exhibit a greater range of symptoms or damage compared to highly tolerant hybrids. Hybrids with intermediate tolerance will still show less severe symptoms or damage than low tolerance hybrids when grown under similar environmental conditions and/or disease pressure.

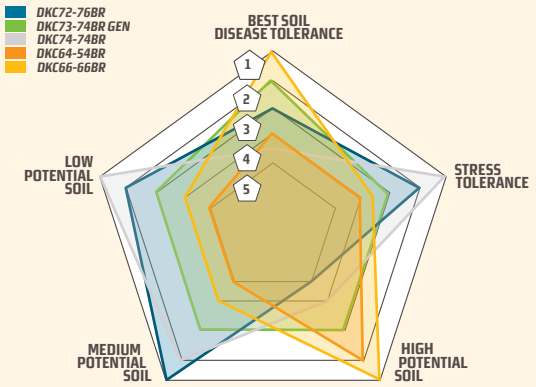
LT – Low Tolerance: Hybrid that marginally restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to high or intermediate tolerant hybrids. The hybrid is likely to exhibit symptoms or damage under some disease pressure and economic damage is likely under high disease pressure without other disease control interventions.

YELLOW MAIZE HYBRIDS

POSITIONING IN DRYLAND EAST

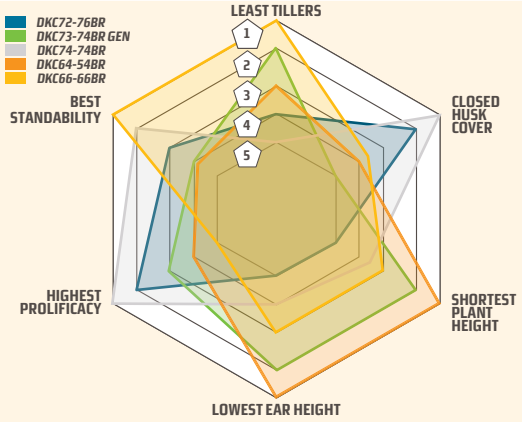
Region	Cold East			Temperate East		
Hybrid Potential	**High**	**Medium**	**Low**	**High**	**Medium**	**Low**
DKC72-76BR	60 000	50 000	30 000	60 000	50 000	40 000
DKC73-74BR GEN	60 000	45 000	N/A	60 000	50 000	N/A
DKC74-74BR	60 000	45 000	35 000	60 000	45 000	35 000
DKC64-54BR	75 000	60 000	N/A	80 000	65 000	N/A
DKC66-66BR	70 000	60 000	N/A	75 000	60 000	N/A

N/A– Not Applicable



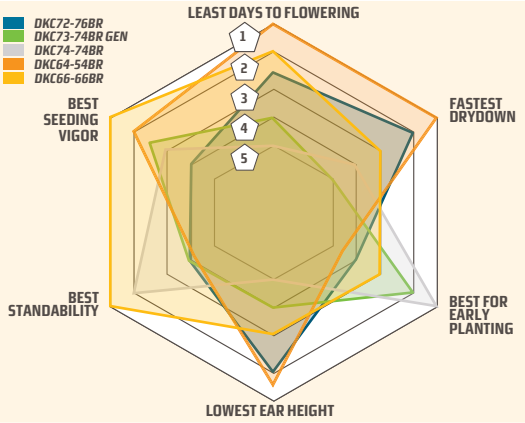
SOIL DYNAMICS:

- Hybrids suited to different soil potentials and conditions are displayed.
- Harvest and soil potential maps can help to select the best hybrid for each scenario.



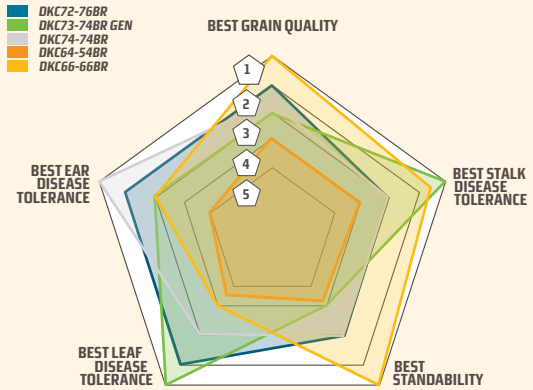
PLANT POPULATION:

- Plant population is very dynamic and there are numerous interactions with hybrids.
- Position hybrids to exploit their strong points when deciding on plant populations.



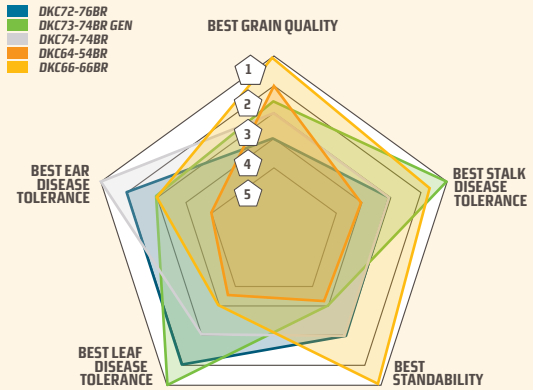
HARVEST TIME AND MATURITY:

- Try to miss the "frost window" in March/April.
- Extend the pollination period with hybrid positioning.
- Consider hybrids with good seedling vigour when planting early in colder soil conditions.



THE CONTINUOUS MAIZE CONUNDRUM
(MAIZE ON MAIZE):

- Monoculture leads to the buildup of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on-farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.



PLANT POPULATION RECOMMENDATIONS:

- Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.

YELLOW MAIZE HYBRIDS

POSITIONING IN DRYLAND WEST

PLANT POPULATION RECOMMENDATIONS

Plant population optimisation is very important to growers in South Africa. Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.

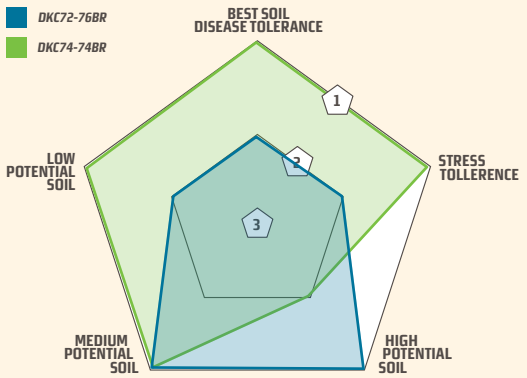
As soil moisture and rainfall (water) are the most limiting factors for yield in South Africa, it is important to do population studies over different yield environments to be able to recommend a planting rate for a specific hybrid.

There are vast differences between prolific and non-prolific hybrids regarding their reaction to plant density.

As curves with prolific seem to stay quite flat, it is important to note that curves also differ over environments. Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and growing season length.

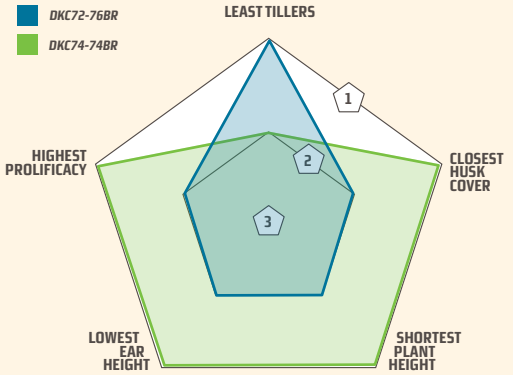
Plant population recommendations are based on multi season data and experiences. Population recommendations should be verified per hybrid by your local **Bayer** team members in your area. Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

Region	Dryland West		
Hybrid Potential	**High & Water Table**	**Medium**	**Low**
DKC72-76BR	40 000	30 000	20 000
DKC74-74BR	40 000	30 000	20 000



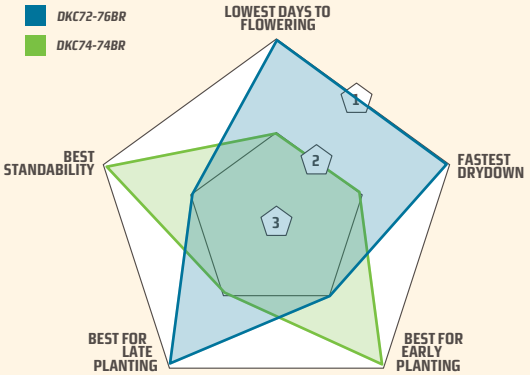
SOIL DYNAMICS:

- In this graph hybrids that are suited to different soil potentials and conditions are displayed.
- Harvest maps and soil potential maps can help to select the best hybrid for each scenario.



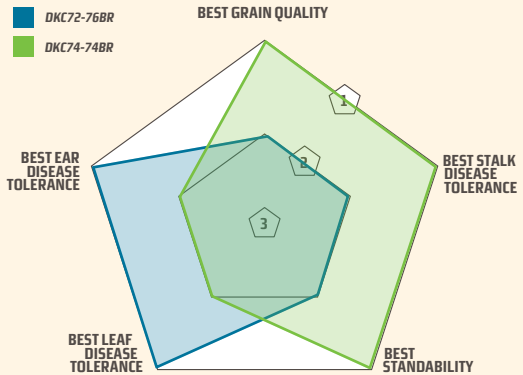
PLANT POPULATION PUZZLE:

- Plant population is very dynamic and there are numerous interactions with hybrids.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.
- Standability can be less of a problem at lower populations.



HARVEST TIME AND MATURITY:

- Planting the right hybrid at the right time is important.
- Try to miss the “frost window” in March/April.
- Spread pollination risk by extending the pollinination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.



THE CONTINUOUS MAIZE CONUNDRUM
(MAIZE ON MAIZE):

- Monoculture leads to the buildup of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.


Harvest the
#DEKALBadvantage
Explore technology that addresses all of your individual farming needs ...
Discover the benefits of our new yellow maize hybrids for yourself:
/// DKC72-76BR /// DKC74-74BR
/// DKC64-54BR /// DKC66-66BR
Discover the
#DEKALBadvantage
DEKALB

YELLOW MAIZE HYBRIDS

POSITIONING IN DRYLAND EAST & WEST

There are many benefits to reap from choosing a yellow maize hybrid for the eastern and western maize production areas from our **DEKALB®** range.

Our genetics and technology are supported by unparalleled innovation. We help you seed your success.

DKC68 SERIES

EAST | WEST | YELLOW MAIZE

Hybrids in the DKC68 series:

DKC68-50

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	IT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	230-300
EAR HEIGHT	105-125
EARS PER PLANT WEST	1.2
EARS PER PLANT EAST	1.6
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	118-128 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	NOT SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	210-240
EAR HEIGHT	105-130
EARS PER PLANT WEST	1.5
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO HIGH
IRRIGATION	NOT SUITABLE

DKC71 SERIES

EAST WEST YELLOW MAIZE

Hybrids in the DKC71 series:

DKC71-46BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC72 SERIES

EAST WEST YELLOW MAIZE

Hybrids in the DKC72 series:

- DKC72-76BR
- DKC72-72B
- DKC72-74R
- DKC72-70

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	230-300
EAR HEIGHT	105-125
EARS PER PLANT WEST	1.7
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	NOT SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	EXCELLENT
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	FAIR
SUN SCALD	YES
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	190-220
EAR HEIGHT	90-115
EARS PER PLANT WEST	N/A
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-138 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO HIGH
IRRIGATION	SUPPLEMENTARY

DKC73 SERIES

EAST

YELLOW MAIZE

Hybrids in the DKC73 series:

- DKC73-74BR GEN
- DKC73-76R
- DKC73-70B GEN
- DKC73-72

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC74 SERIES

EAST | WEST | YELLOW MAIZE

Hybrids in the DKC74 series:

- DKC74-74BR — WEST ONLY
- DKC74-26R
- DKC74-20

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	GOOD
TILLERING	MANY
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	IT
STALK ROTS	IT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	LT
SPECIFICS	
PLANT HEIGHT	200-230
EAR HEIGHT	25-105
EARS PER PLANT WEST	1.6
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO LOW
IRRIGATION	SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	NOT AVAILABLE
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	200-230
EAR HEIGHT	85-105
EARS PER PLANT WEST	1.6
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO LOW
IRRIGATION	NOT SUITABLE

DKC78 SERIES

EAST WEST YELLOW MAIZE

Hybrids in the DKC78 series:

DKC78-78BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC80 SERIES

WEST

YELLOW MAIZE

Hybrids in the DKC80 series:

DKC80-40BR GEN

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	VERY GOOD
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	FAIR
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	230-250
EAR HEIGHT	120-130
EARS PER PLANT WEST	1.7
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

The proof is in the PERFORMANCE

Discover the benefits of our new hybrids for yourself:

Yellow: /// DKC72-76BR /// DKC73-74BR /// DKC64-54BR /// DKC66-66BR /// DKC78-78BR
White: /// DKC76-77BR /// DKC75-65BR
Irrigation: /// DKC65-60BR /// DKC64-54BR /// DKC61-60BR
/// DKC66-66BR /// DKC62-37BR /// DKC62-35R

Explore technology that addresses all of your individual farming needs ...

Discover the
#DEKALBadvantage

DEKALB

The following aspects will influence hybrid choice and placement.

SOIL-TYPE

- Poorly drained soils – choose a hybrid with good stalk strength.
- Sandy dryland – look for higher prolificacy.
- Texture.
- Structure.
- Chemical analysis.

PLANTING DENSITY

- Look at hybrid recommendations as each hybrid reacts differently to planting populations.
- Adjust planting density according to the available moisture, the soil type and expected season.
- Hybrids respond with notable physical attributes such as tillers, husk cover, plant and ear height and prolificacy to planting densities.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.

HARVEST TIMING AND MATURITY MIX

- Take the frost window of your particular area into consideration.
- If you harvest late choose a hybrid with good standability.
- Different maturity hybrids spread the pollination window and reduce risk during heat stress.

CONTINUOUS MAIZE CONUNDRUM

- Maize on maize is generally a more stressful environment.
- Monoculture leads to the build-up of pathogens over time.
- Choose a hybrid rated for high-stress tolerance.
- Disease tolerance is important when choosing hybrids for a monoculture system as grain quality issues and lodging can have a huge impact on profitability.
- Knowing your prevalent diseases on the farm is important for hybrid placement.

NO-TILL NEEDS

- Choose a hybrid with strong early-season vigour and high emergence ratings.
- Choose disease tolerant genetics.

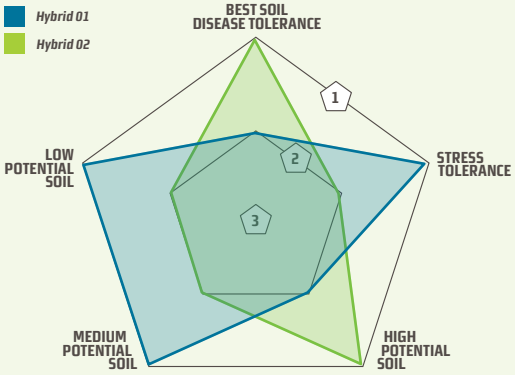
PLANT POPULATION RECOMMENDATIONS

- Plant population optimisation is critical. To realise the highest profit per hectare, the correct plant population per hybrid in a specific environment is important.
- If plant populations are too high, seed costs can negatively influence the profitability of your farming practice.
- If there are too many plants in a field, stress conditions can be induced which has a negative effect on your yield potential.
- Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and the length of the growth season.
- As water (soil moisture and rainfall) is the most limiting factor for yield in South Africa, we did important population studies over different yield environments to be able to recommend plant populations for specific hybrids.
- There are vast differences between prolific and nonprolific hybrids regarding their reaction to plant density and environments.
- Plant population recommendations are based on multi-season data and experiences.
- Population recommendations should be verified per hybrid by the local **Bayer** representative in your area.
- Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

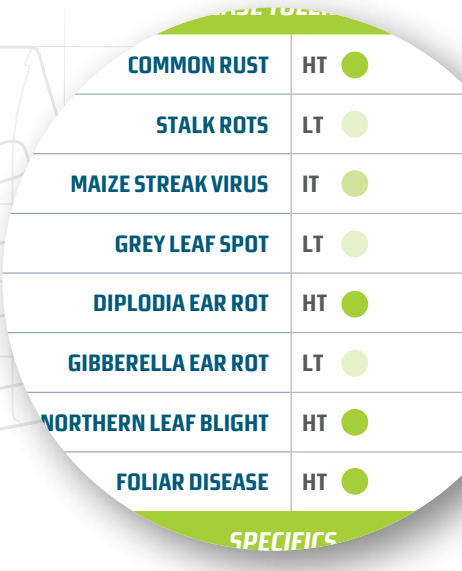
Read more on plant population at www.cropscience.bayer.africa/za/en-za/resources/articles/plant-populations.html

IMPORTANT FOR INTERPRETATION OF "SPIDER GRAPHS"

- Hybrids are ranked from 1 to 2.
- 1 is the hybrid with best outcome for the situation.
- 2 is the hybrid with least suitable/advisable outcome for the situation.
- During placement more than 1 factor can be important.
- Interpret different factors together to make sound decisions.
- Combine assumptions to position more than one hybrid.
- Use a process of elimination working through the spider graphs to end up with recommendations.
- **All hybrids are Superior Genetics and the aim of the Graphs is to place them on the farm with specific purpose to address different needs.**



Silk balling symptoms can occur on the DKC76-77BR series under unfavourable pollination conditions. Silk balling is favoured by temperature fluctuations, low pollen pressure, tight husk leaves and a closed ear tip cover. Numerous trial- and commercial data showed that the silk balling phenomenon had no significant effect on the yield of DKC76-77BR and the rest of the series.



DESCRIPTOR CODE OR LEVELS AS FOLLOW:

HT – High Tolerance: Hybrid that highly restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to intermediate or low tolerant hybrids. The hybrid may, however, exhibit some symptoms or damage under heavy disease pressure.

IT – Intermediate Tolerance: Hybrid that restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure but may exhibit a greater range of symptoms or damage compared to highly tolerant hybrids. Hybrids with intermediate tolerance will still show less severe symptoms or damage than low tolerance hybrids when grown under similar environmental conditions and/or disease pressure.

LT – Low Tolerance: Hybrid that marginally restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to high or intermediate tolerant hybrids. The hybrid is likely to exhibit symptoms or damage under some disease pressure and economic damage is likely under high disease pressure without other disease control interventions.

WHITE MAIZE HYBRIDS
POSITIONING IN DRYLAND EAST

PLANT POPULATION RECOMMENDATIONS

Plant population optimisation is very important to growers in South Africa. Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.

As soil moisture and rainfall (water) are the most limiting factors for yield in South Africa, it is important to do population studies over different yield environments to be able to recommend a planting rate for a specific hybrid.

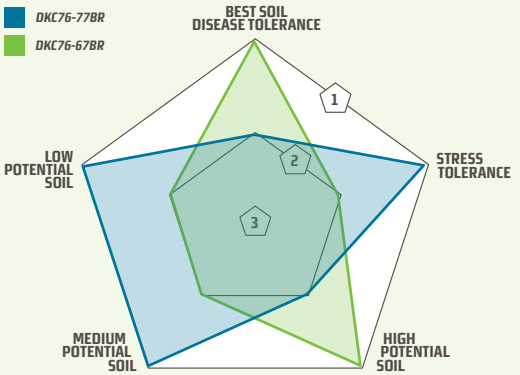
There are vast differences between prolific and non-prolific hybrids regarding their reaction to plant density.

As curves with prolific seem to stay quite flat, it is important to note that curves also differ over environments. Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and growing season length.

Plant population recommendations are based on multi season data and experiences. Population recommendations should be verified per hybrid by your local **Bayer** team members in your area. Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

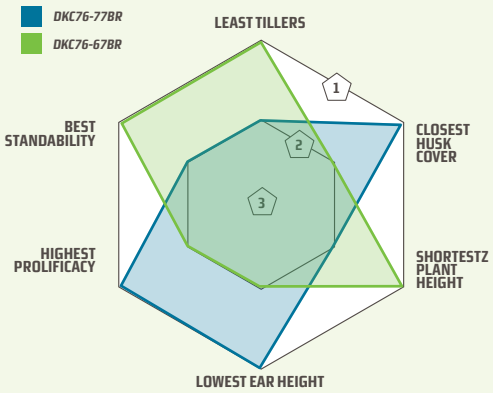
Region	Cold East			Temperate East		
Hybrid Potential	**High**	**Medium**	**Low**	**High**	**Medium**	**Low**
DKC76-77BR	45 000	40 000	30 000	55 000	45 000	35 000
DKC76-67BR	60 000	50 000	N/R	60 000	50 000	N/R

N/R– Not recommended



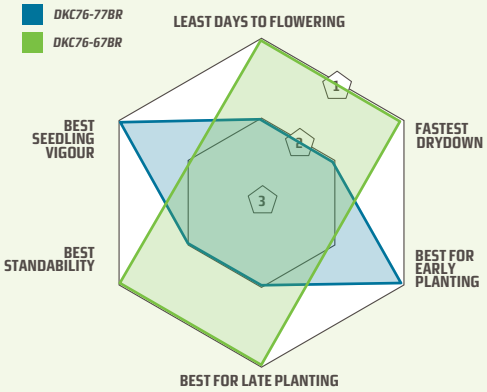
SOIL DYNAMICS:

- In this graph hybrids that are suited to different soil potentials and conditions are displayed.
- Harvest maps and soil potential maps can help to select the best hybrid for each scenario.



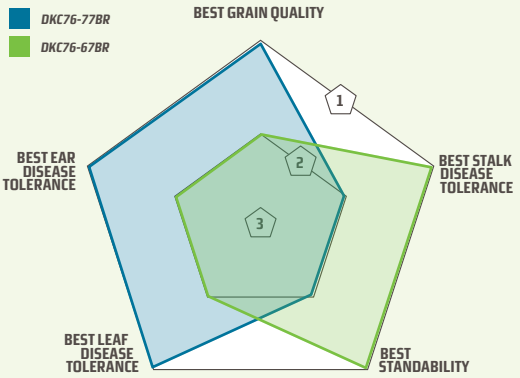
PLANT POPULATION PUZZLE:

- Plant population is very dynamic and there are numerous interactions with hybrids.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.
- Standability can be less of a problem at lower populations.



HARVEST TIME AND MATURITY:

- Planting the right hybrid at the right time is important.
- Try to miss the "frost window" in March/April.
- Spread pollination risk by extending the pollinination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.



THE CONTINUOUS MAIZE CONUNDRUM (MAIZE ON MAIZE):

- Monoculture leads to the buildup of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.

WHITE MAIZE HYBRIDS
POSITIONING IN DRYLAND WEST

PLANT POPULATION RECOMMENDATIONS

Plant population optimisation is very important to growers in South Africa. Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.

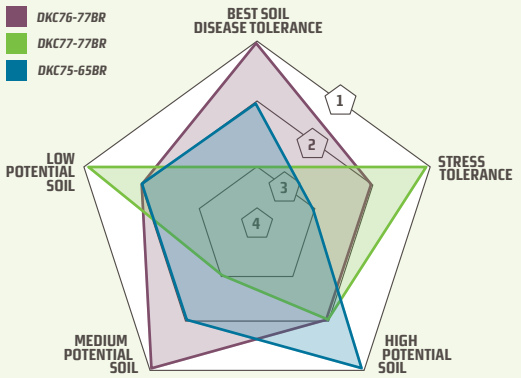
As soil moisture and rainfall (water) are the most limiting factors for yield in South Africa, it is important to do population studies over different yield environments to be able to recommend a planting rate for a specific hybrid.

There are vast differences between prolific and non-prolific hybrids regarding their reaction to plant density.

As curves with prolific seem to stay quite flat, it is important to note that curves also differ over environments. Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and growing season length.

Plant population recommendations are based on multi season data and experiences. Population recommendations should be verified per hybrid by your local **Bayer** team members in your area. Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

Region	Dryland West		
Hybrid Potential	**High & Water Table**	**Medium**	**Low**
DKC76-77BR	35 000	28 000	20 000
DKC77-77BR	35 000	28 000	20 000
DKC75-65BR	37 000	30 000	22 000



SOIL DYNAMICS:

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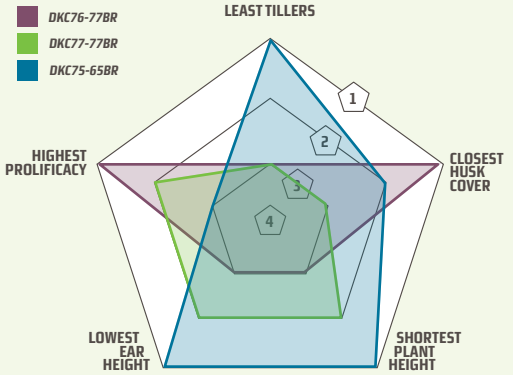
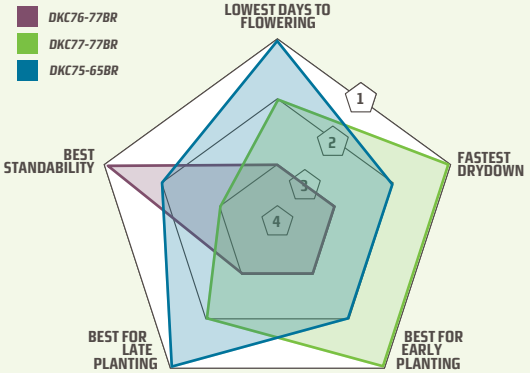
- Harvest maps and soil potential maps can help to select the best hybrid for each scenario.



PLANT POPULATION PUZZLE:

- Plant population is very dynamic and there are numerous interactions with hybrids.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.
- Standability can be less of a problem at lower populations.



HARVEST TIME AND MATURITY:

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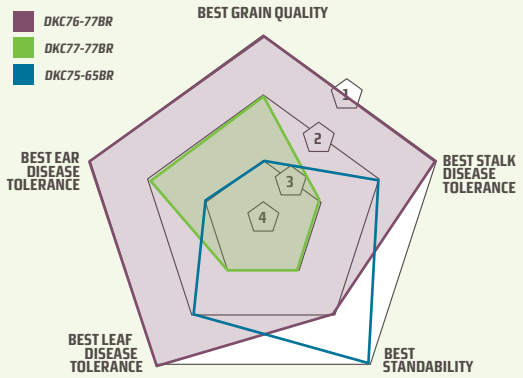
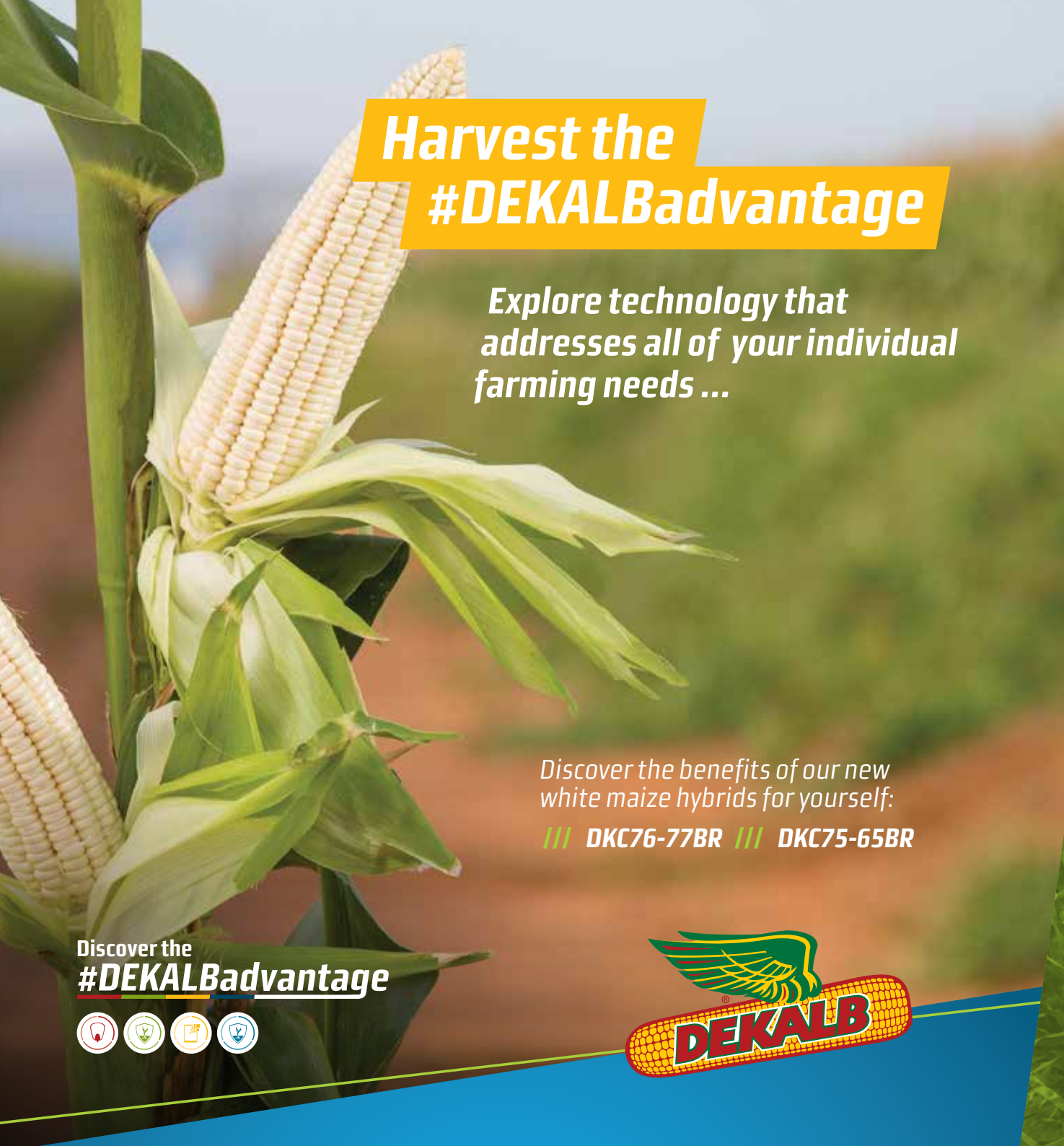
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.



THE CONTINUOUS MAIZE CONUNDRUM (MAIZE ON MAIZE):

- Monoculture leads to the buildup of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.


Harvest the
#DEKALBadvantage
Explore technology that addresses all of your individual farming needs ...
Discover the benefits of our new white maize hybrids for yourself:
/// DKC76-77BR /// DKC75-65BR
Discover the
#DEKALBadvantage
DEKALB

WHITE MAIZE HYBRIDS

POSITIONING IN DRYLAND EAST & WEST

The **DEKALB®** range of white maize hybrids for the eastern and western maize production areas gives you a choice to address your specific needs.

Our hybrids are supported by advanced technology and excellent innovation. **DEKALB** is the smart choice.

DKC75 SERIES

WEST

WHITE MAIZE

Hybrids in the DKC75 series:

DKC75-65BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	NONE
GRAIN QUALTIY	AVERAGE
TASSEL EARS	FEW
TIP COVERING OF EAR	FAIR
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	LT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	LT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	200-230
EAR HEIGHT	105-130
EARS PER PLANT WEST	1.9
EARS PER PLANT EAST	N/A
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	125-140 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	NOT SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	FAIR
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	210-280
EAR HEIGHT	95-130
EARS PER PLANT WEST	2
EARS PER PLANT EAST	1.4
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	117-145 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

DKC76 SERIES

EAST WEST WHITE MAIZE

Hybrids in the DKC76 series:

- DKC76-77BR
- DKC76-73R
- DKC76-75B
- DKC76-71

What every farmer must know about silk jamming

Silk balling, or also known as silk jamming or scrambled silks, occurs during the reproductive growth stage of maize when the silks are supposed to appear at the tip of the ear but are obstructed by husk leaves. This sporadic phenomenon occurs where silks jam inside the husk leaves in certain seasons due to various climatical conditions. The exact cause has not been determined but there is reasonable agreement that cold night temperatures below 10 °C, as well as day and night temperature fluctuations of more than 10 °C play a significant contributing role. Other factors that play a role include low pollen pressure, tight husk leaves, long husk leaves and a closed ear tip cover.

The theory is that the husk leaves are affected first, and growth is slower in comparison to the ear. The silks are then pressed against the husk leaves, 'ball' inside the husk leaves and cannot emerge for successful pollination to occur.

It must be stressed that silk jamming is a sporadic phenomenon and will not necessarily occur everywhere and every year. To minimise risk and because weather patterns during pollination cannot be predicted, we recommend that farmers plant a package of different hybrids and vary the planting times.

DKC77 SERIES

WEST

WHITE MAIZE

Hybrids in the DKC77 series:

DKC77-77BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	FAIR
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	LT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	IT
GIBBERELLA EAR ROT	LT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	200-230
EAR HEIGHT	90-110
EARS PER PLANT WEST	2
EARS PER PLANT EAST	N/A
DAYS TO 50% TASSEL	68-78
ESTIMATED RELATIVE MATURITY	117-145 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	NOT SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	AVERAGE
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	210-240
EAR HEIGHT	95-130
EARS PER PLANT WEST	2.1
EARS PER PLANT EAST	1.5
DAYS TO 50% TASSEL	68-78
ESTIMATED RELATIVE MATURITY	120-148 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

DKC78 SERIES

EAST WEST WHITE MAIZE

Hybrids in the DKC78 series:

DKC78-45BR GEN

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
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SOIL-TYPE

- Poorly drained soils – choose a hybrid with good stalk strength.
- Sandy dryland – look for higher prolificacy.
- Texture.
- Structure.
- Chemical analysis.

PLANTING DENSITY

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- Hybrids respond with notable physical attributes such as tillers, husk cover, plant and ear height and prolificacy to planting densities.
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- Position hybrids to exploit their strong points when deciding on plant populations.

HARVEST TIMING AND MATURITY MIX

- Take the frost window of your particular area into consideration.
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CONTINUOUS MAIZE CONUNDRUM

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- Choose a hybrid rated for high-stress tolerance.
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- Knowing your prevalent diseases on the farm is important for hybrid placement.

NO-TILL NEEDS

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- Choose disease tolerant genetics.

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- As water (soil moisture and rainfall) is the most limiting factor for yield in South Africa, we did important population studies over different yield environments to be able to recommend plant populations for specific hybrids.
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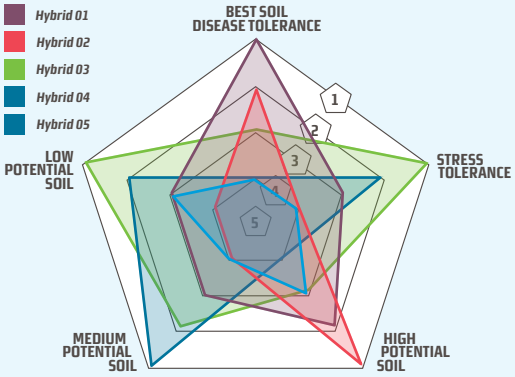
- 1 is the hybrid with best outcome for the situation.
- 4 is the hybrid with least suitable/advisable outcome for the situation.
- During placement more than 1 factor can be important.
- Interpret different factors together to make sound decisions.
- Combine assumptions to position more than one hybrid.
- Use a process of elimination working through the spider graphs to end up with recommendations.
- **All hybrids are Superior Genetics and the aim of the Graphs is to place them on the farm with specific purpose to address different needs.**



COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	IT

SPECIFICS

DESCRIPTOR CODE OR LEVELS AS FOLLOW:

HT – High Tolerance: Hybrid that highly restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to intermediate or low tolerant hybrids. The hybrid may, however, exhibit some symptoms or damage under heavy disease pressure.

IT – Intermediate Tolerance: Hybrid that restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure but may exhibit a greater range of symptoms or damage compared to highly tolerant hybrids. Hybrids with intermediate tolerance will still show less severe symptoms or damage than low tolerance hybrids when grown under similar environmental conditions and/or disease pressure.

LT – Low Tolerance: Hybrid that marginally restricts the growth and/or development of the specified disease/pathogen or the damage it causes under normal disease pressure when compared to high or intermediate tolerant hybrids. The hybrid is likely to exhibit symptoms or damage under some disease pressure and economic damage is likely under high disease pressure without other disease control interventions.

IRRIGATION MAIZE HYBRIDS

POSITIONING IN THE WEST

PLANT POPULATION RECOMMENDATIONS

Plant population optimisation is very important to growers in South Africa. Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.

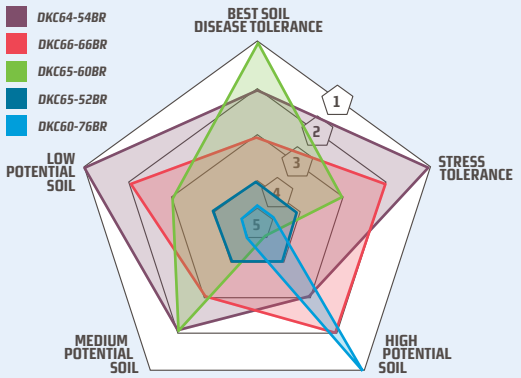
As soil moisture and rainfall (water) are the most limiting factors for yield in South Africa, it is important to do population studies over different yield environments to be able to recommend a planting rate for a specific hybrid. There are vast differences between prolific and non-prolific hybrids regarding their reaction to plant density.

As curves with prolific seem to stay quite flat, it is important to note that curves also differ over environments. Environments are defined through a combination of rainfall, temperature, soil attributes, elevation and growing season length.

Plant population recommendations are based on multi season data and experiences. Population recommendations should be verified per hybrid by your local **Bayer** team members in your area. Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.

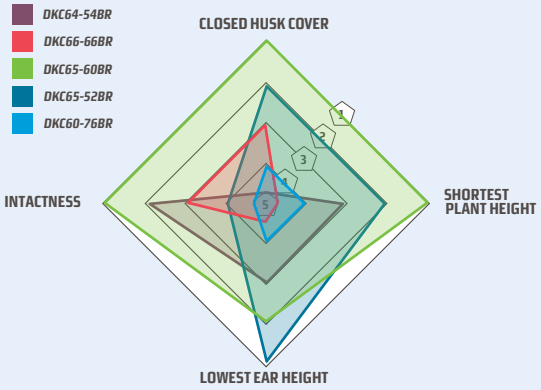
Region	Vaalharts		Jacobsdal, Modderrrivier		Hope-town	Orania, Luckhoff	Douglas Vaal	Douglas Oranje	Prieska	Upington
Potential	**High**	**Medium**	**High**	**Low**	**High**	**High**	**High**	**High**	**High**	**High**
DKC64-54BR			115 000	95 000		115 000				
DKC66-66BR	105 000	95 000	105 000	95 000	105 000	105 000	105 000	105 000		105 000
DKC65-60BR				95 000	95 000	95 000	95 000	95 000	95 000	95 000
DKC65-52BR	105 000		105 000		105 000	105 000		105 000		105 000
DKC60-76BR		95 000	95 000	95 000	95 000	95 000	95 000	95 000	95 000	

* *Greensnap* is the breakage of maize stalks at a node caused by high winds. *Greensnap* can occur during growth stages when internodes are rapidly elongating and are susceptible to breakage. *Greensnap* can occur at growth stages V5 to V8 and V10 to R2. Most ultra-short maturity hybrids can have some degree of *greensnap* and it is more rare on dry land hybrids.



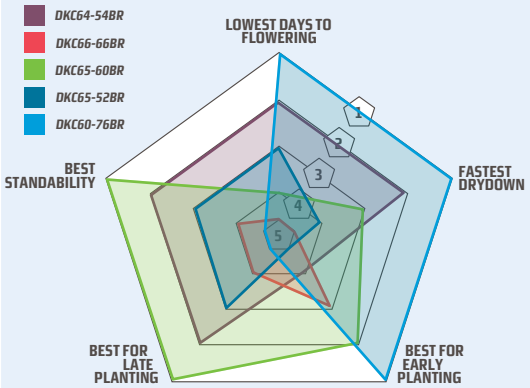
SOIL DYNAMICS:

- In this graph hybrids that are suited to different soil potentials and conditions are displayed.
- Harvest maps and soil potential maps can help to select the best hybrid for each scenario.



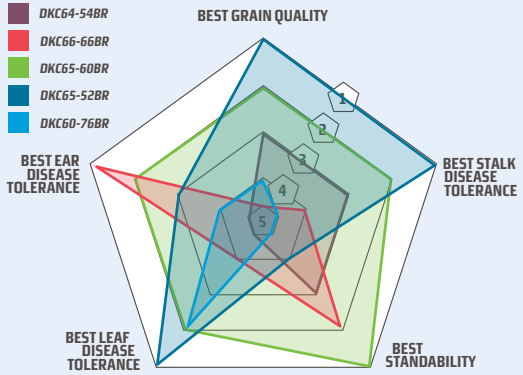
PLANT POPULATION PUZZLE:

- Plant population is very dynamic and there are numerous interactions with hybrids.
- High populations with tall plants can increase the risk of lodging.
- Position hybrids to exploit their strong points when deciding on plant populations.
- Standability can be less of a problem at lower populations.



HARVEST TIME AND MATURITY:

- Planting the right hybrid at the right time is important.
- Try to miss the "frost window" in March/April.
- Spread pollination risk by extending the pollinination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.



THE CONTINUOUS MAIZE CONUNDRUM (MAIZE ON MAIZE):

- Monoculture leads to the buildup of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.


Harvest the
#DEKALBadvantage
Explore technology that addresses all of your individual farming needs ...
Discover the advantage you gain with the following irrigation hybrids:
DKC65-60BR
DKC64-54BR
Discover the
#DEKALBadvantage
DEKALB

IRRIGATION MAIZE HYBRIDS

POSITIONING SOUTH AFRICA

Our irrigation maize hybrids offer a combination of the latest germplasm with the newest biotechnology traits to ensure exceptional crop performance and improved yield potential under high plant density situations.

DKC60 SERIES

IRRIGATED YELLOW MAIZE

Hybrids in the DKC60 series:

- DKC60-76BR
- DKC60-74R

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	IT
SPECIFICS	
PLANT HEIGHT	250-280
EAR HEIGHT	110-130
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	LT
GREY LEAF SPOT	NOT AVAILABLE
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	IT
SPECIFICS	
PLANT HEIGHT	242-270
EAR HEIGHT	110-130
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

DKC61 SERIES

IRRIGATED

YELLOW MAIZE

Hybrids in the DKC61 series:

DKC61-60BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC62 SERIES

IRRIGATED

WHITE MAIZE

Hybrids in the DKC62 series:

- DKC62-37BR
- DKC62-35R

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	NOT AVAILABLE
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	IT
SPECIFICS	
PLANT HEIGHT	245-270
EAR HEIGHT	110-130
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

CHARACTERISTICS	
YIELD STABILITY	GOOD
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	LT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	255-280
EAR HEIGHT	100-120
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

DKC64 SERIES

IRRIGATED YELLOW MAIZE EAST

Hybrids in the DKC61 series:

DKC64-54BR

DKC64-52R

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC65 SERIES

IRRIGATED YELLOW MAIZE

Hybrids in the DKC65 series:

DKC65-52BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	LT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	IT
FOLIAR DISEASE	IT
SPECIFICS	
PLANT HEIGHT	250-280
EAR HEIGHT	95-115
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	245-270
EAR HEIGHT	100-120
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

DKC65 SERIES

IRRIGATED YELLOW MAIZE EAST

Hybrids in the DKC65 series:

DKC65-60BR

DKC65-72

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC66 SERIES

IRRIGATED | YELLOW MAIZE | EAST

Hybrids in the DKC66 series:

DKC66-66BR

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	LT
GREY LEAF SPOT	NOT AVAILABLE
DIPLODIA EAR ROT	LT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	LT
FOLIAR DISEASE	IT
SPECIFICS	
PLANT HEIGHT	250-280
EAR HEIGHT	110-130
EARS PER PLANT WEST	1
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	55-63
ESTIMATED RELATIVE MATURITY	104-115 DAYS
MANAGEMENT	
PLANT POPULATION	HIGH
IRRIGATION	SUITABLE

SMALL-HOLDER MAIZE HYBRIDS

POSITIONING SOUTH AFRICA

The built-in technology in **DEKALB®** seed unlocks a world of possibilities for your farm and ensures that every kernel you plant develops into a healthy maize plant. Use **DEKALB** seed to seed your success ... one kernel at a time.


EVERY KERNEL COUNTS
What is the #DEKALBadvantage?
With DEKALB® you get more than just advanced genetics, you get Acceleron® seed treatment standard with all hybrids, ensuring your seed gets a strong start, online resources and support as well as a range of crop protection solutions to combat diseases, weeds and insects. Get peace of mind with Bayer's full-package solution for maize and harvest success this season.
BAYER
Explore technology that addresses all of your individual farming needs ...
Discover the #DEKALBadvantage

Growing more with less starts with strong seed and effective crop protection!

- ***DEKALB ADVANCED GENETICS***
- ***SEED TREATMENT FOR PROTECTION***
- ***ONLINE RESOURCES AND AGRI-SUPPORT***
- ***FALL ARMYWORM & STALK BORER CONTROL – WEED MANAGEMENT***

DEKALB®

One seed is all you need!

We understand it is important for you to produce a healthy crop each year. Therefore, at **Bayer** we are committed to continuously support you in addressing the challenges you face on your farm.

DEKALB® offers a wide range of top-performing white and yellow hybrids that are widely adapted for small-holder farmers across South Africa. Every one of our **DEKALB®** maize seeds is backed by years of research and development, to ensure that you get the most out of every kernel. This built-in technology unlocks a world of possibilities for your farm and ensures that you do not have to plant doubles and that one kernel per hole, is enough.

Insect and weed control are two critical aspects of maize production. The technology available in our hybrids plays an enormous part in protecting your crops and making your life as a farmer a bit easier. For this reason, our stack gene hybrids contain the built-in benefits of both **Roundup® Ready MAIZE 2** and **YieldGard® MAIZE 2** technology to provide protection against weeds and insects. Our **DEKALB** seed also has the added benefit of **Acceleron®** for protection against various soil-borne insects and diseases.

With this wide range of **DEKALB** hybrids, you can be assured that your harvest is in good hands and that only one kernel per hole is needed to realise your harvest.

This is just one of the ways in which we are supporting you so that you can support the nation and grow food for you, your neighbours and your livestock. With our excellent maize genetics and the trusted advice from our **Bayer** experts, we'll help you grow prosperity, one seed at a time.

Contact your nearest **Bayer** representative today for advice on how to produce more with less this season.

Multiply your maize with one DEKALB seed per hole.

Get the amount of seed you need!

TECHNOLOGY FOR ALL

Choose from the following DEKALB® seed types:

Discover the
#DEKALBadvantage

DEKALB

Let's help you plant your DEKALB success!

By feeding your family and community, you play an important role in creating food security. As your partner, we offer a wide range of products specifically created for your needs.

The technologies that are available and that you can choose from, include **Roundup® Ready MAIZE 2** (burgundy bags), **Stacked Traits** (blue bags) and **Conventional** (orange bags) **DEKALB** seed. Both yellow and white hybrid seeds are available in packages of **2 kg, 5 kg** and **30 000** kernels.

With our built-in seed technology, one kernel per hole is all that is needed to create the potential to seed your success.

To buy these products, contact your nearest sales representative or visit a **DEKALB** stockist in your area today.

2 kg

5 kg

30 000 kernels

Let us help you plant your DEKALB success!

By feeding your family and community, you play an important role in creating food security. As your partner, we offer a wide range of products specifically created for your needs.

YELLOW MAIZE HYBRID

SMALL-HOLDER

Our well-adapted maize hybrids offer yield stability under difficult production situations. The built-in technology in our **DEKALB®** yellow maize hybrids reduces production risks and opens up new possibilities for your farm. Use **DEKALB®** seed to your advantage ... one kernel at a time.

DKC73 SERIES

EAST

YELLOW MAIZE

Hybrids in the DKC73 series:

- DKC73-74BR GEN
- DKC73-76R
- DKC73-72

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	FEW
EMERGENCE	EXCELLENT
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	FAIR
SUN SCALD	YES
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	190-220
EAR HEIGHT	90-115
EARS PER PLANT WEST	N/A
EARS PER PLANT EAST	1
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-138 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO HIGH
IRRIGATION	SUPPLEMENTARY

CHARACTERISTICS	
YIELD STABILITY	GOOD
TILLERING	MANY
EMERGENCE	GOOD
SILK BALLING	NONE
GRAIN QUALTIY	GOOD
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	IT
STALK ROTS	IT
MAIZE STREAK VIRUS	HT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	LT
SPECIFICS	
PLANT HEIGHT	200-230
EAR HEIGHT	85-105
EARS PER PLANT WEST	1.6
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM TO LOW
IRRIGATION	SUITABLE

DKC74 SERIES

EAST WEST YELLOW MAIZE

Hybrids in the DKC74 series:

- DKC74-74BR
- DKC74-26R
- DKC74-20

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

DKC80 SERIES

WEST

YELLOW MAIZE

Hybrids in the DKC80 series:

DKC80-40BR GEN

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	VERY GOOD
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	FAIR
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	EXCELLENT
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	IT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	230-250
EAR HEIGHT	120-130
EARS PER PLANT WEST	1.7
EARS PER PLANT EAST	1.2
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	120-135 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

WHITE MAIZE HYBRID

SMALL-HOLDER

With our wide range of white maize hybrids, you can look forward to an abundant harvest and good quality white maize grain ready for the market!

DKC76 SERIES

EAST | WEST | WHITE MAIZE

Hybrids in the DKC76 series:

- DKC76-77BR
- DKC76-73R
- DKC76-71

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	EXCELLENT
SILK BALLING	FAIR
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	IT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	210-280
EAR HEIGHT	95-130
EARS PER PLANT WEST	2
EARS PER PLANT EAST	1.4
DAYS TO 50% TASSEL	70-80
ESTIMATED RELATIVE MATURITY	117-145 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

CHARACTERISTICS	
YIELD STABILITY	EXCELLENT
TILLERING	AVERAGE
EMERGENCE	AVERAGE
SILK BALLING	NONE
GRAIN QUALTIY	EXCELLENT
TASSEL EARS	FEW
TIP COVERING OF EAR	VERY GOOD
SUN SCALD	NONE
DISEASE TOLERANCE	
COMMON RUST	HT
STALK ROTS	HT
MAIZE STREAK VIRUS	IT
GREY LEAF SPOT	LT
DIPLODIA EAR ROT	HT
GIBBERELLA EAR ROT	HT
NORTHERN LEAF BLIGHT	HT
FOLIAR DISEASE	HT
SPECIFICS	
PLANT HEIGHT	210-240
EAR HEIGHT	95-130
EARS PER PLANT WEST	2.1
EARS PER PLANT EAST	1.5
DAYS TO 50% TASSEL	68-78
ESTIMATED RELATIVE MATURITY	120-148 DAYS
MANAGEMENT	
PLANT POPULATION	MEDIUM
IRRIGATION	SUPPLEMENTARY

DKC78 SERIES

EAST WEST WHITE MAIZE

Hybrids in the DKC78 series:

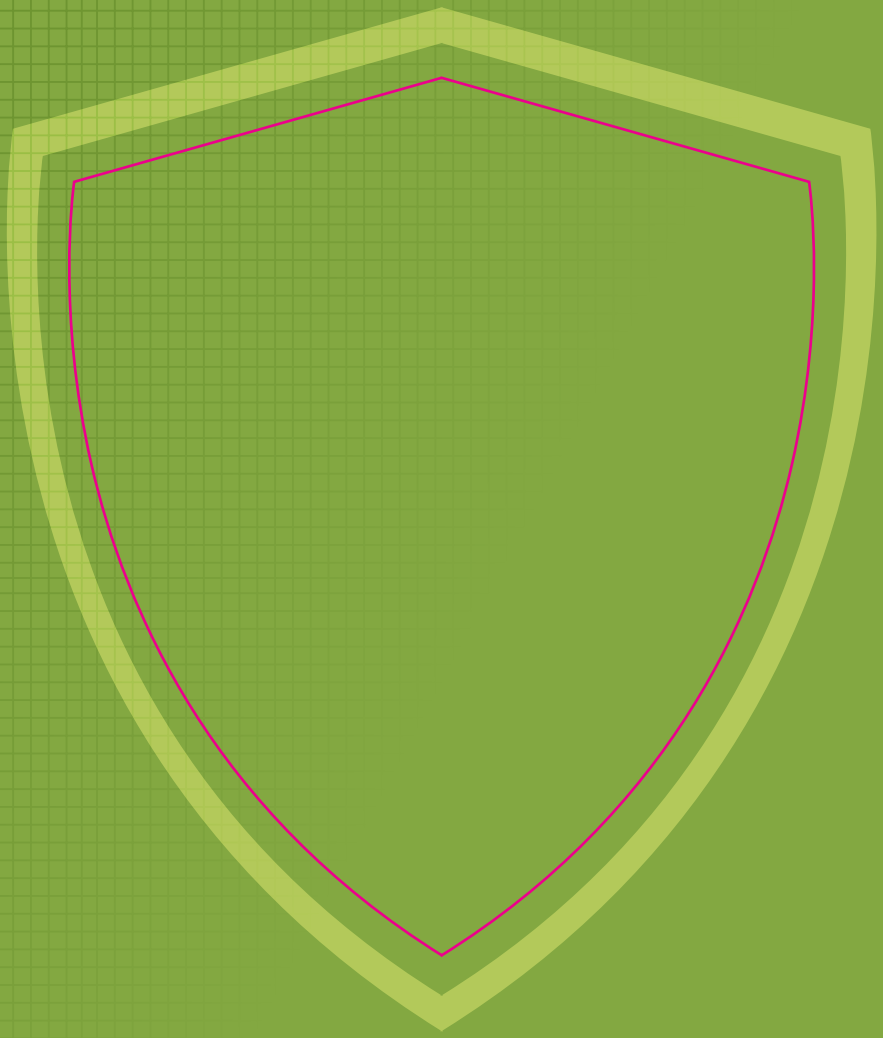
DKC78-45BR GEN

BR – Stacked Traits
R – Roundup Ready® MAIZE 2
B – YieldGard® MAIZE 2
Conventional

Maize variety:
Yellow maize
White maize
Irrigation maize

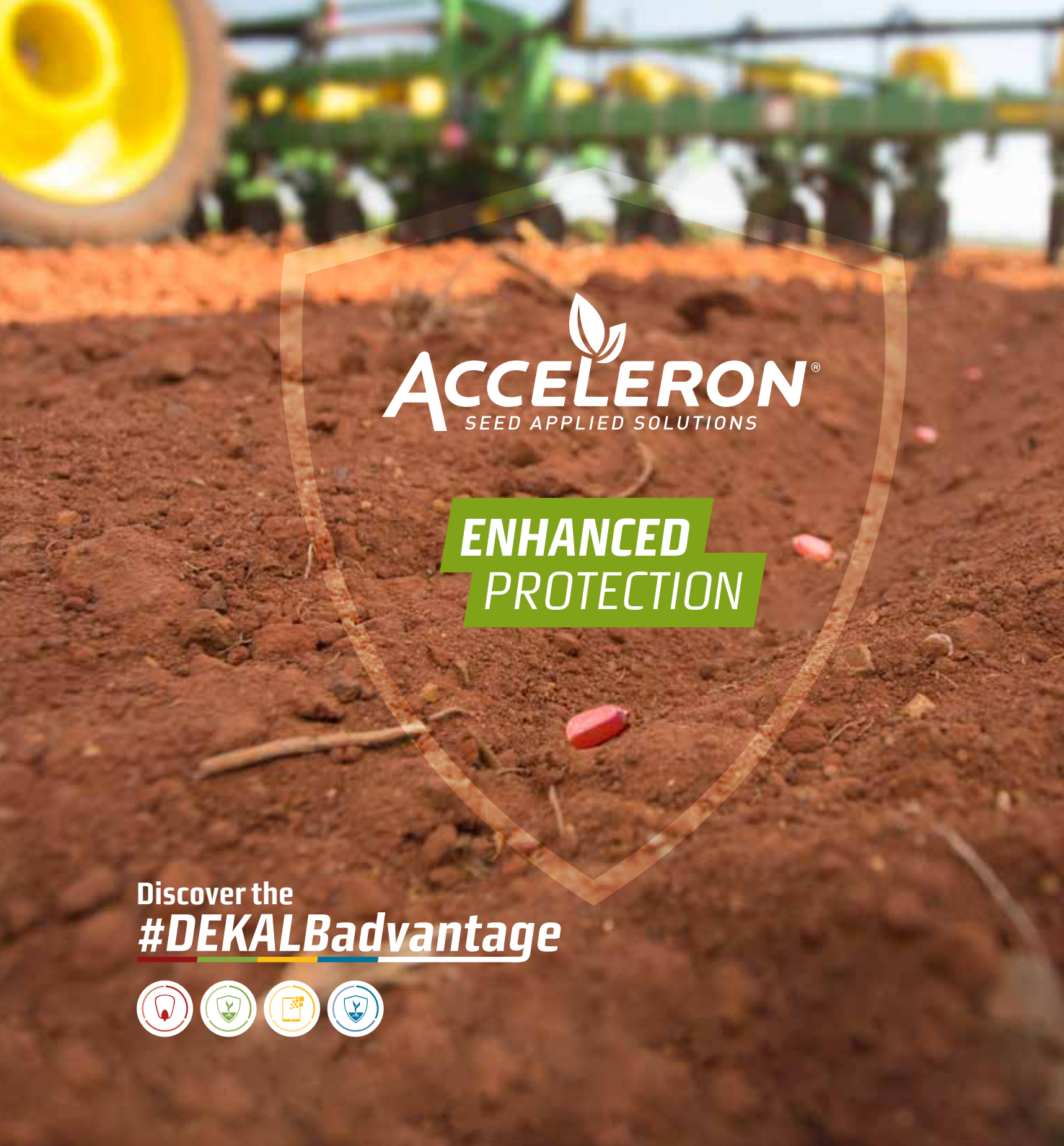
DEKALB® seed bag:
Take note of the colour and the white or yellow maize graphic on the bag to help find the correct technology and hybrid combination.

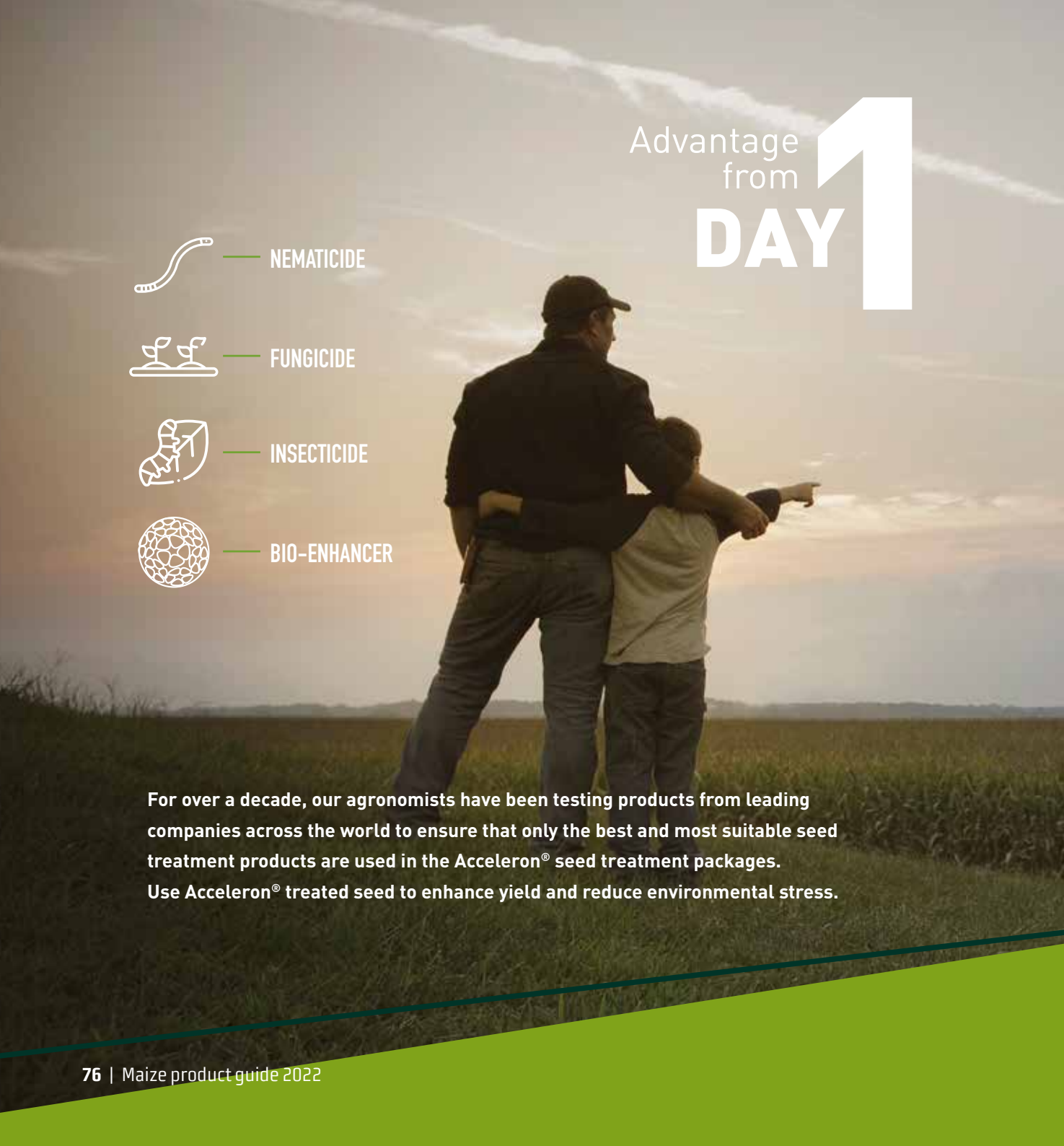
Explore technology that addresses all of your individual farming needs ...



SEED TREATMENT

SEED TREATMENT


ACCELERON®
SEED APPLIED SOLUTIONS
ENHANCED
PROTECTION
Discover the
#DEKALBadvantage



For over a decade, our agronomists have been testing products from leading companies across the world to ensure that only the best and most suitable seed treatment products are used in the Acceleron® seed treatment packages.
Use Acceleron® treated seed to enhance yield and reduce environmental stress.

ACCELERON®
SEED APPLIED SOLUTIONS

ENHANCED SEED PROTECTION

ACCELERON®
SEED APPLIED SOLUTIONS

Acceleron® – a great solution to ensure good early plant development

To help you maximise the performance potential of your DEKALB seed use Acceleron® treated seed.

Because we understand that you rely on us to provide technology-based solutions and agricultural crop protection products to maximise your farm productivity and the quality of the crop that you produce, we have worked tirelessly to deliver solutions to address your needs.

Acceleron® has been designed to complement, protect, and enhance **Bayer**'s **DEKALB**® hybrids from the onset through the application of a combination of broad-spectrum insecticide, fungicide, nematicide and a new biological product, under one seed treatment umbrella. In addition, each seed is coated with a quality polymer to minimise dust and facilitate safe storage.
The **Acceleron**® seed treatment packages, available exclusively on **DEKALB**® hybrids, protect seed against a variety of early-season nematodes, insects, soil and seed-borne diseases and maximise early-season plant establishment, uniformity and vigour to ensure the best chance for a good crop.

Depending on your specific need, you can choose from the below Acceleron® seed treatment offerings:

THE INSECT CONTROL PACKAGE

This package provides protection against fungal disease as well as against above- and below-ground insects which can damage seed and seedlings.

This package contains:

- **Maxim® Quattro** Reg. No. L9494. Active ingredients: Thiabendazole (benzimidazole), Azoxystrobin (strobilurin), Fludioxonil (phenylpyrrole), Metalaxyl-M (phenylamide)
- **Poncho®** Reg. No. L8581. Active ingredients: Clothianidin
- **Create®** Reg. No. L10658. Active ingredients: Prothioconazole (triazole)
- **Torque®** Reg. No. M180. Active ingredients: Lipo-chito oligosaccharide (lco sp104)

This package has the following benefits:

- A systemic mode of action ensures the protection of the entire seedling.
- Also contains **Create®** that suppresses cob and tassel smut.
- Available in higher dosage for areas where maize streak virus is an issue.
- Torque is a biological product that supports the root health of the plant.

THE NEMATODE AND INSECT CONTROL PACKAGE

To achieve the best results, we recommend the nematode and insect control combined package as it includes complete fungicide, insect control for above and below soil insects which can damage seed and seedlings as well as a nematicide.

This package contains:

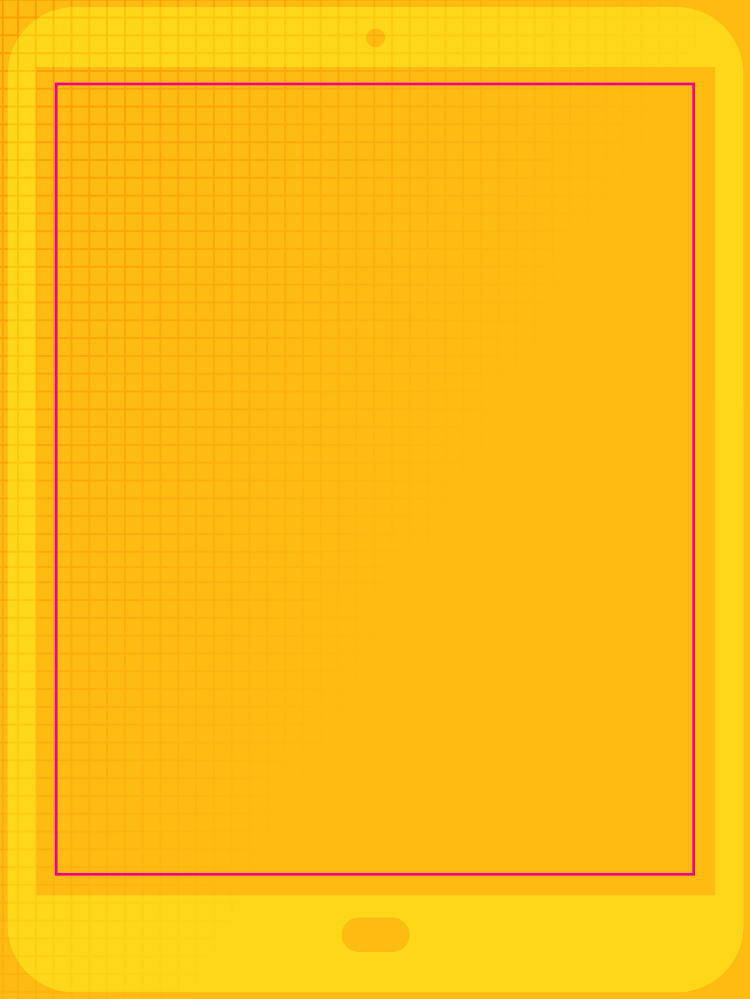
- **Maxim® Quattro** Reg. No. L9494. Active ingredients: Thiabendazole (benzimidazole), Azoxystrobin (strobilurin), Fludioxonil (phenylpyrrole), Metalaxyl-M (phenylamide)
- **Cruiser®** Force Reg. No. L8597. Active ingredients: Thiamethoxam (neonicotinoid)
- **Avicta®** Reg. No. L8496. Active ingredients: Abamectin
- **Create®** Reg. No. L10658. Active ingredients: Prothioconazole (triazole)
- **Torque®** Reg. No. M180. Active ingredients: Lipo-chito oligosaccharide (lco sp104)

This package has the following benefits:

- Abamectin kills parasitic nematodes to provide effective protection of young roots.
- Ensures healthy, vigorous seedlings - early stimulation of growth promotes vigour of a crop which has a significant effect on yield.
- Protects seed and young seedlings to ensure optimum plant populations.
- Ensures strong root development from an early stage to optimise water and fertiliser usage.
- Protects against pests and pathogens such as fusarium, pythium, cob and tassel smut, and maize streak virus that can affect plants later in the season.
- Cost-effective with minimal impact on the environment.
- Target pest and application-specific for optimal efficacy and efficiency.
- Offers timeous control when needed most.
- High-quality products improve the ease of seed flow during planting.
- Available in higher dosage for areas where maize streak virus is an issue.

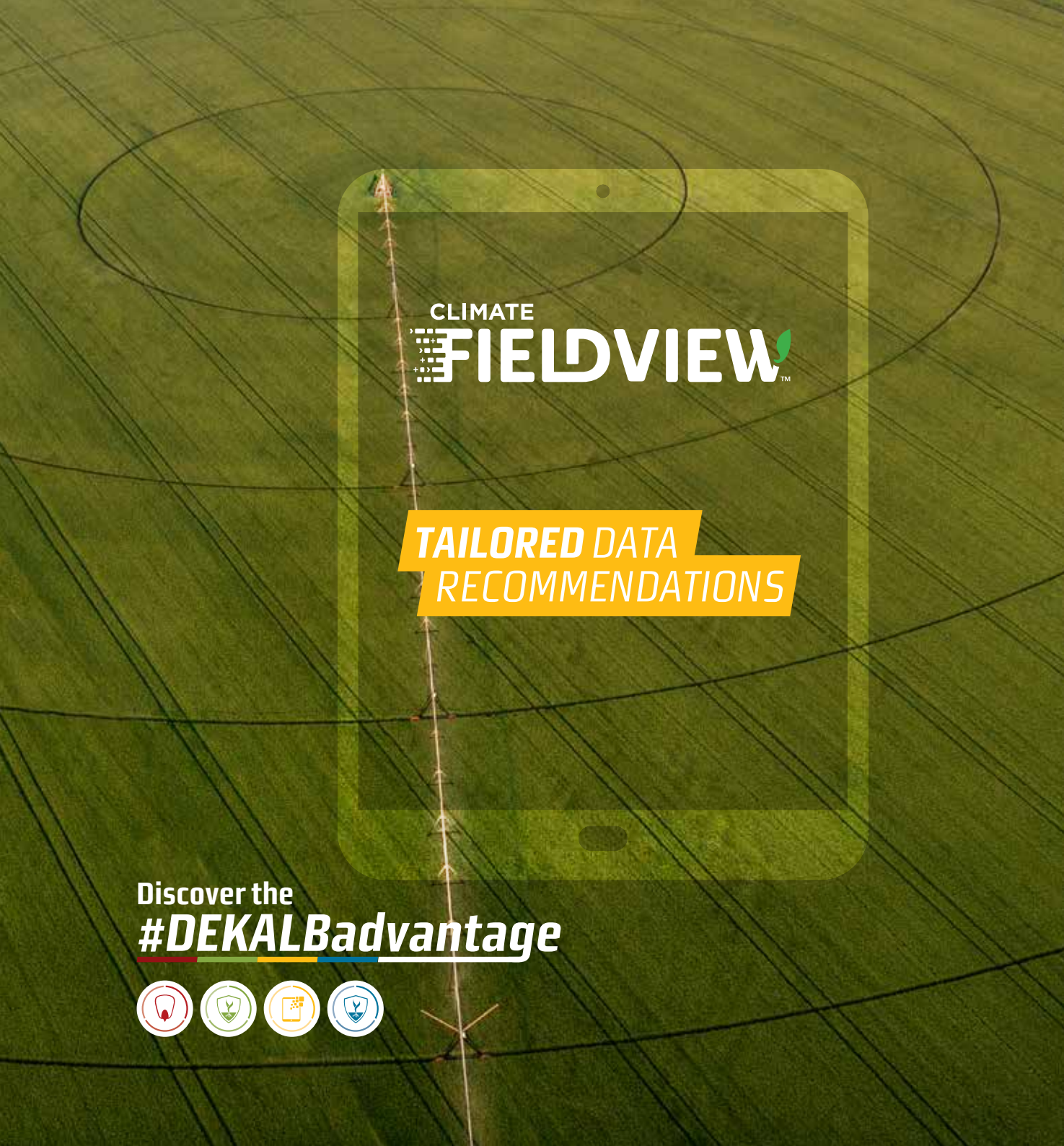
Maximise your yield and crop potential from day one ... talk to your DEKALB® seed representative or broker to find out more about the benefits of the Acceleron® seed treatment packages.

Explore technology that addresses all of your individual farming needs ...



DIGITAL SUPPORT

DIGITAL SUPPORT


CLIMATE
FIELDVIEW™
TAILORED DATA
RECOMMENDATIONS
Discover the
#DEKALBadvantage


GET AN
EAGLE EYE
VIEW OF YOUR FARM'S NEEDS

CLIMATE FIELDVIEW™

The future of farming ... at your fingertips.

Climate Fieldview™ is a data-driven platform designed to analyse your farming needs, allowing you to better utilise inputs and natural resources. A subsidiary of **Bayer**, Climate Corporation, is dedicated to help farmers to sustainably increase productivity with digital tools. It allows farmers to collect, store and analyze their data on a user-friendly platform, **FieldView ™ Plus**.

Climate FieldView™
Agriculture's leading farm software platform

Farming has never been this exciting … imagine having all your field data at your fingertips to make efficient decisions!

In 2020 the **FieldView**™ platform was tested on more than 500 000 ha of maize, soy, wheat and other crops. This leading software platform is now commercially available in South Africa.

We have seen a shift in agriculture from the use of digital tools to making data-driven decisions based on the insight of the collected data. **Climate FieldView**™, being a digital farming platform, helps to collect, store, analyse and visualise farming data for the farmer's convenience. The farmer's data is then secured in a unique cloud space and can be accessed at any given moment or even shared with his agronomic partners.

One application to turn data into useful information and insights

Bayer's **Climate FieldView**™ platform provides intuitive apps and hardware solutions to maximise the impact of precision agriculture.

Each farm is different. Every field is unique. Analyse your farm's data in one place with the **Climate FieldView**™ application and turn your field data into insights. **Climate FieldView**™ focuses on equipping you with valuable insights to understand your farming operations such as different hybrids, soil types, fertility and crop protection better.

The platform provides easy-to-use tools that will help you to seamlessly collect, store, and visualise critical field data, monitor and measure the impact of your agronomic decisions on crop performance, and manage your field variability by building customised fertility and seeding plans for your fields to optimise yield.

On your tablet, smartphone or desktop, **Climate FieldView**™ will help you make data-driven decisions and maximise your return on every hectare. **FieldView**™ provides a single platform to unite data from each piece of your equipment – including tractors, planters, sprayers, and combines and accesses the data from anywhere using a smartphone, tablet device or desktop.

This whole process is driven by two crucial elements: the application **Climate FieldView**™ **Cab** and the **Climate Fieldview**™ **Drive**. The **FieldView**™ **Drive** is a piece of hardware that can be plugged into a diagnostic port in the cab of your equipment to generate as applied data of your field as you go along. You can use the **FieldView**™ **Cab** Application to set a notification for important areas in your field. With the **Cab** Application you can access field data from anywhere or view the **equipment through the RemoteView feature. FieldView**™ uses Bluetooth technology to stream agronomic data from the equipment too seamlessly collect data from your equipment to your **FieldView**™ account. You can also upload historic data generated by your equipment directly into your **FieldView** account through the Data Inbox tool on your desktop. With **Climate FieldView**™ we focus on giving you access to tools to collect and analyse data and to improve your farming operation.

FieldView™ makes it quick and easy to:

- Seamlessly collect, store and visualise critical field data.
- Monitor and measure the impact of your agronomic decisions on crop performance.
- Manage field variability by building customised fertility and seeding plans to optimise yield and maximise profit.
- Share information and valuable data insights with your trusted agronomic partners. You can send both a GPS location of the specific field or satellite images. Additionally, you can share scouting notes with your trusted partners to create a clear view of your operations.
- This application makes it easy for you to get the necessary advice and store it for future use.

INSIGHTS THROUGHOUT THE YEAR

Planning

- Analyse last season's yield data to form the upcoming season's fertility, planting and crop protection strategies.
- Import soil analysis data to improve planting and fertility planning.
- Create variable rate seeding prescriptions tailored to your fields and goals.

Planting

- Save time and execute your planting plan when you're ready to go by easily exporting variable-rate seeding prescriptions to your equipment.
- Collect, store and view planting data in real-time on one digital platform.
- Monitor your progress and spot potential issues in real-time as you pass through the field, tracking seed population rate at planting, so you can get the most out of every seed.

Growing

- Use in-season satellite imagery and historical field imagery to evaluate crop progress and health, so you can identify issues early on.
- Save valuable time by identifying field regions to monitor throughout the growing season and share with trusted agronomic partners.
- Maximise your yield with variable rate fertility prescription features.

Harvest

- Collect, store and view yield data in real-time so you can have all your data on one digital platform.
- Use analysed yield data to better understand field variability with side-by-side maps.
- Analyse hybrid performance, so you can begin to plan for the next season.

FARMER TESTIMONIALS

Johan Ferreira,
Eastern Free State

"You need to have a good platform to process relevant data into practical information. **Climate FieldView™** changed our operation tremendously in the way that all this information is centralised."

Japie Breedt
Bapsfontein, Gauteng

"In 2020 I was introduced to the platform. It is easy to use and all the data is stored in real-time. It changed my operation totally. This technology makes everything more effective. With the same input expenditure per hectare, this technology enables you to realise so much more at the end of the season. To do my own on-farm trials is also much easier as everything is captured on the system. The real-time data opens up the opportunity to try new things and it really adds value to my business. I will never again farm without **Climate FieldView™**!"

For more information, visit www.climatefieldview.co.za.

Scan these codes with your phone's camera or use the link to learn more and watch insightful videos on the benefits of using Climate FieldView™.

Japie Breedt testimonial video:

https://youtu.be/pmfTK1kC-EM

Tutorial – Harvester:

https://youtu.be/SUJ_eT9664s

Climate FieldView™ Teaser 2:

https://youtu.be/ChUwDLoZnyQ

Tutorial – Tractors & Planters:

https://youtu.be/WUkF-OKy1q8

Climate FieldView™ Teaser 3:

https://youtu.be/JWzDJqrB75Q

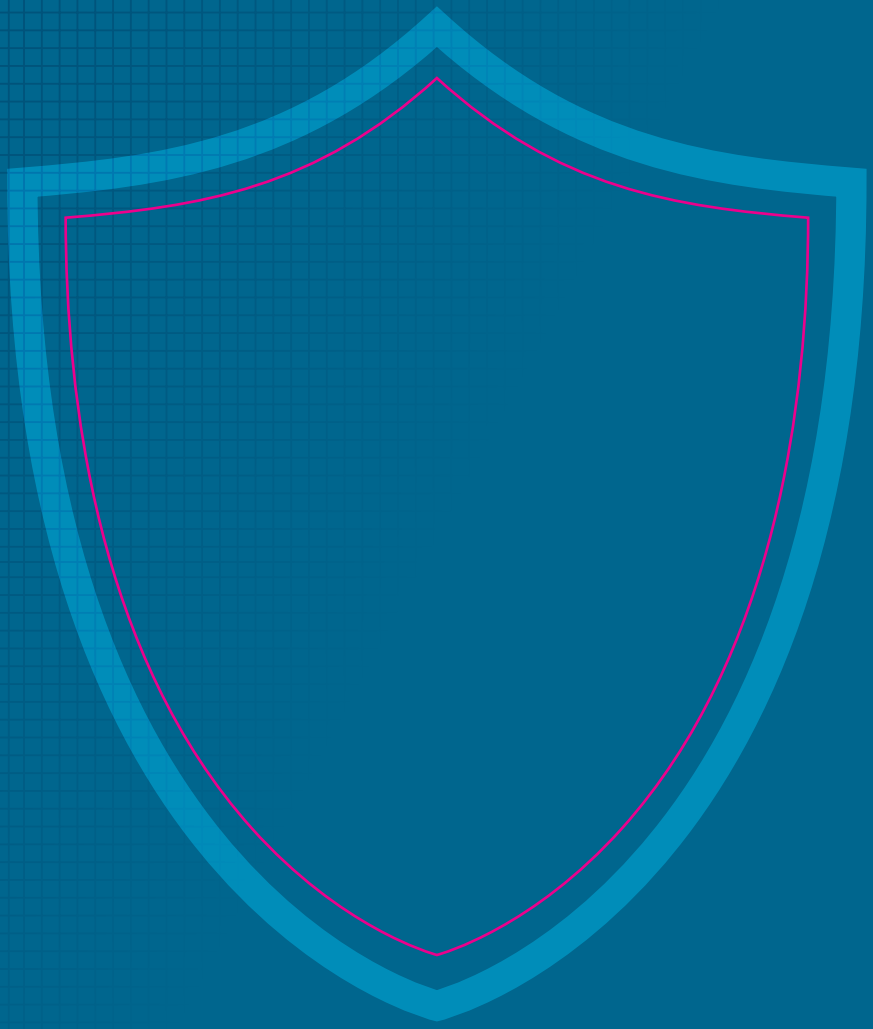
Climate Field View™ 360 – Aerial:

https://youtu.be/MvQwHOteWMM

Climate Field View™ 360 – Cab:

https://youtu.be/Yv_T_Bu52Hg

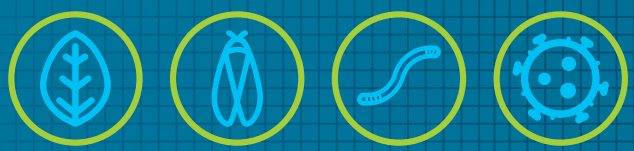
Explore technology that addresses all of your individual farming needs ...



CROP PROTECTION

BAYER

CROP PROTECTION




BAYER
ENHANCED
PROTECTION
Discover the
#DEKALBadvantage

PEACE OF MIND HAS A NEW MEANING

Weeds, diseases, insects and fungi deprive plants of water, sunlight, and nutrients. This can have a devastating impact on your yield and food production.

At **Bayer**, we work to support you by providing a variety of tools to manage risks and foster diversity, resulting in sustainable agriculture.

INTEGRATED PEST MANAGEMENT

Delay the development of resistance to crop protection products:

/// Avoid exclusive, repeated use of any crop protection product from the same group or mode of action.

/// Alternate or mix tank with registered products from different groups and modes of action.

/// Integrate chemical, cultural, and biological control methods in your pest control programme.

/// Always follow the instructions on the label.

/// Report suspected difficult to control weeds, insects and diseases immediately.

Bayer enhanced crop protection – exclusive range of solutions for maize

With **DEKALB**® you get more than just advanced genetics, you get **Acceleron**® **seed treatment** standard with all hybrids, ensuring your seed gets a strong start, online resources and digital farming support as well as a range of **crop protection** solutions to combat **diseases**, **weeds** and **insects**. Get peace of mind with Bayer's **full-package** solution for maize and harvest success this season.

Discover the
#DEKALBadvantage


ENHANCED
PROTECTION

Your pride *our passion*

*At **Bayer**, we know that farming is not just a job, it's a calling. We understand the responsibility that comes with driving a sustainable and profitable farming enterprise and we grasp the various challenges producers are confronted with.*

*To turn today's challenges into tomorrow's breakthroughs, requires collaboration with a partner that backs you with innovative agricultural solutions and cutting-edge technology. For the last century, **Bayer** has proven to be that partner for agricultural producers across the planet.*

WHO ARE WE?

As a global enterprise with core competencies in the life sciences of health care and agriculture, **Bayer**'s products and services are aimed at advancing the health of people, plants and the environment. At **Bayer Crop Science**, we are harnessing the spirit of innovation to shape what's possible for farmers, consumers, and the planet. Using the creative spark that comes from human ingenuity, we seek to deliver world-class innovation, set new standards in sustainability, and drive digital transformation to reach our goal of ...

Health for all,

Hunger for none

Bayer offers integrated solutions to producers by combining high-yielding seed and gene technology with a wide range of crop protection products. These products and technologies are suited for both commercial and smallholder farmers.

To help farmers control existing crop threats and get ahead of emerging ones, we are constantly updating our diverse product portfolio of herbicides, fungicides and insecticides.

Our crop protection products offer proven solutions, easier crop management and time saving technologies for maximizing crop production and enhancing profitability.

Modern digital systems also open doors for producers because it combines seed and gene technology with the optimal application of crop protection products. Therefore, **Bayer** is committed to the continuous development of technology such as the **Climate FieldView**™ platform, to offer solutions that brings about effective, profitable farming.

HERBICIDES

VERSATILE WEED CONTROL

Glyphosate (the active ingredient in **Roundup® PowerMAX** and **Roundup® TURBO)** is registered for the use on more than 100 crops worldwide for effective weed control. **Roundup®** is widely used prior to planting of crops in order for farmers to plant in a clean seed bed. It can also be used post-planting before crop emergence as well as post-emergence on **Roundup Ready®** crops.

MIXING ORDER OF PRODUCTS

AS EASY AS: 1-2-3

HERBICIDE

Roundup PowerMAX HERBICIDE

70%

01 **Water:** Fill spray tank up to 70% and circulate

02 **Water quality correctors:** AMS buffers and other products except for stickers

03 Water-soluble bags

04 **DF | WDG | WP:** Dry formulation

05 **SC:** Suspension concentrate

06 **EC:** Emulsifiable concentrate

07 **SL:** Water-soluble liquids and all Roundup® products

08 Stickers (consult product labels)

09 **WS:** Foliar feed suspensions

100%

10 **Water:** Fill spray tank up to 100% with water and circulate

NATIVO®

Zantara®

FUNGICIDES

ENHANCED PROTECTION AGAINST DISEASES

Fungicides control the growth of fungi and their spores that damage plants, including rusts, mildews, and blights. Fungicides work in a variety of ways, but mostly damage fungal cell membranes or interfere with energy production within fungal cells.

Northern leaf blight

Brown rust

Grey leaf spot

FUNGICIDE

Quality is non-negotiable

NATIVO®

Nativo® offers excellent broad-spectrum disease control, optimising yield and quality. For best disease control and yield benefit, apply **Nativo®** at an early stage of disease development.

Benefits

/// Rain fastness through absorption by the waxy layer on the plant leaves.

/// Strong activity on the plant surface.

/// Excellent control of brown rust (Puccinia Sorghi), Grey leaf spot (Cercospora zeae-maydis and Cercospora zeina), and Northern corn leaf blight (Exserohilum turcicum, Helminthosporium turcicum and Setosphaeria turcica).

Untreated

Nativo®

BAYER

Zantara®

Protect the
powerhouse of your crop

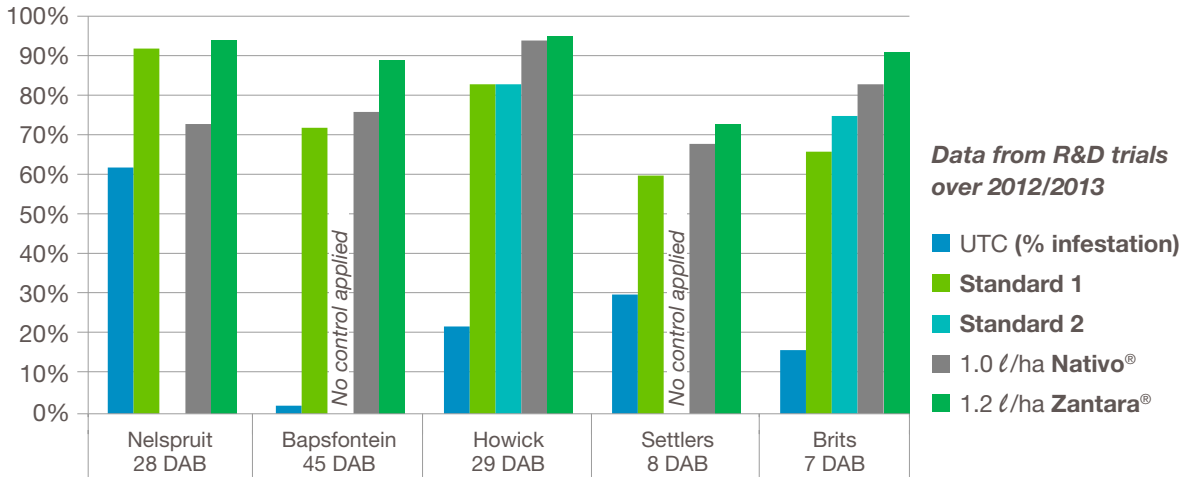
Zantara® has two modes of action delivering robust control.

Benefits

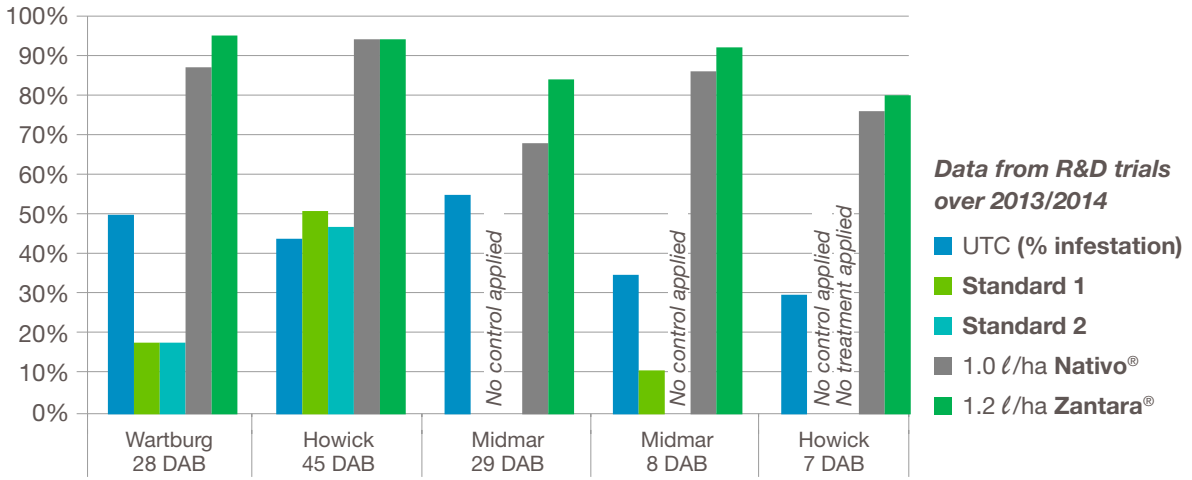
/// **Zantara**® provides long-lasting control.

/// **Zantara**® complements **Nativo**® in a spray programme.

Unparalleled Control of Northern Corn Leaf Blight



Unparalleled Control of Grey Leaf Spot



ARRESTED EAR DEVELOPMENT SYNDROME

What is the cause?

Arrested ear syndrome is not a disease, but a physiological disorder. It is linked to plant stress at a sensitive stage of ear development causing partial or complete abortion of the ear. This can significantly reduce grain yield.

Arrested ear syndrome appears to be linked to the presence of non-ionic surfactants (NIS) and crop oil concentrate (COC), both of which are common ingredients in adjuvants. It is also linked to multi-chemical tank mixes.

Maize applications: The risk of Arrested Ear Syndrome (Blunt Ear Syndrome) increases dramatically when any applications (crop protection products, fertilisers, foliar feeds, adjuvants, etc.) are made between the V10 - VT (10th leaf collar - cob tassel emergence) growth stages of maize plants. Applications between the V10 - VT growth stages of the crop must be avoided as far as possible.

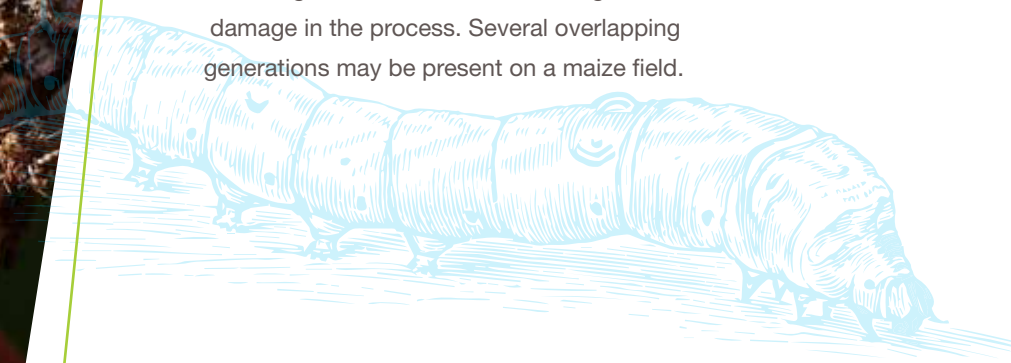
INSECTICIDES

ENHANCED PROTECTION AGAINST DISEASES

Insecticides are formulated to mitigate the risk of harmful insects. Some insecticides disrupt the nervous system, whereas others may damage their exoskeletons, repel them or control them by some other means.

WHAT IS THE COST IF A CUTWORM PROGRAMME IS NOT EFFECTIVE?

Cutworms can cause severe damage to a maize field if not controlled. Cutworms emerge from the soil at night and move from plant to plant, severing the stems of seedlings at the soil surface causing serious damage in the process. Several overlapping generations may be present on a maize field.



INSECTICIDE

Decis® Forte

broad-spectrum insecticide

Are all pyrethroids the same?

Isomeric composition pyrethroids

Product/Active Ingredient	Number of Isomers in commercial product	Number of active isomers in commercial product
Decis Forte®	1	1
Cypermethrin	8	2
Alpha - Cypermethrin	2	1
Lambda - Cyhalothrin	2	1
Fenvelarate	4	1

Risk Management – cut worm

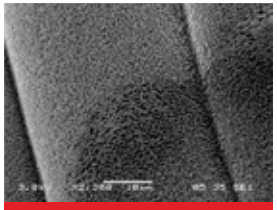
1 ha re-planting = 150 ha **Decis Forte®** treatment

8 kg/ha loss = 1 **Decis Forte®** application (Maize price R2 500/ton)

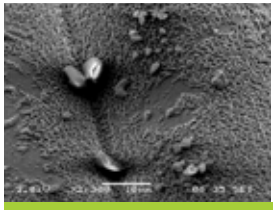
1 ha loss = 0.3% over 300 ha

The above calculations were done on a maize price of R2 500/ton and a plant density of 45 000 plants/ha

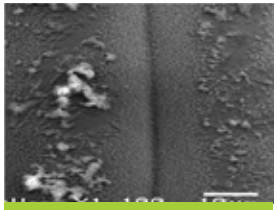
Coverage of plant surface (wheat)



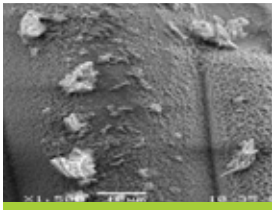
Decis Forte®



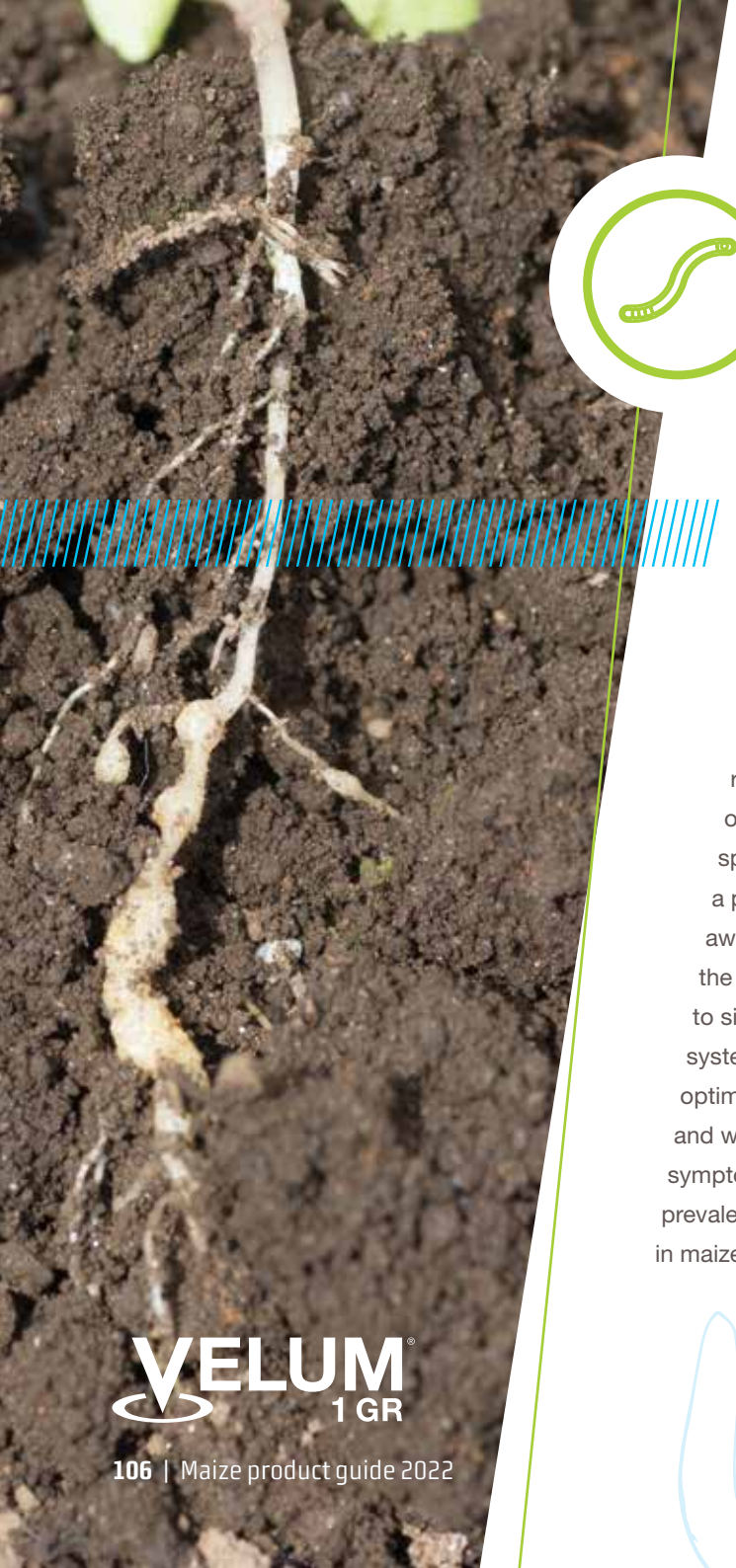
Alpha-Cypermethrin



Alphamethrin



Lamda-Cyhalothrin



NEMATICIDES

NEMATICIDES ARE USED TO CONTROL PARASITIC NEMATODES

Plant-parasitic nematodes are important agricultural pests as they can attack the roots of plants in order to feed and reproduce. The type of damage inflicted on the plant will vary amongst nematode species. When parasitic nematodes infect a plant's roots, they not only take nutrients away from the host plant, but also damage the root system – both of which can lead to significant crop losses. A damaged root system prevents a plant from growing optimally. The plant can't take up nutrients and water as it should and often displays symptoms of stunting and yellowing. The prevalence of nematodes can cause losses in maize yield of up to 70%.

VELUM® 1 GR

NEMATICIDE

For improved
soil, plant and root health

Velum® 1 GR is a granular contact and systemic nematicide registered on maize and soybean for the control of lesion, root-knot and spiral nematodes.

Benefits

/// Increased yield and crop vigour.
/// Favourable toxicological profile.
/// Offers effective and long-lasting control.
/// The granular formulation allows the best uptake in the plant's root zone for optimal results.

With the increase of fertiliser cost and water availability challenges, do your plants have the ability to utilise available water and nutrients?

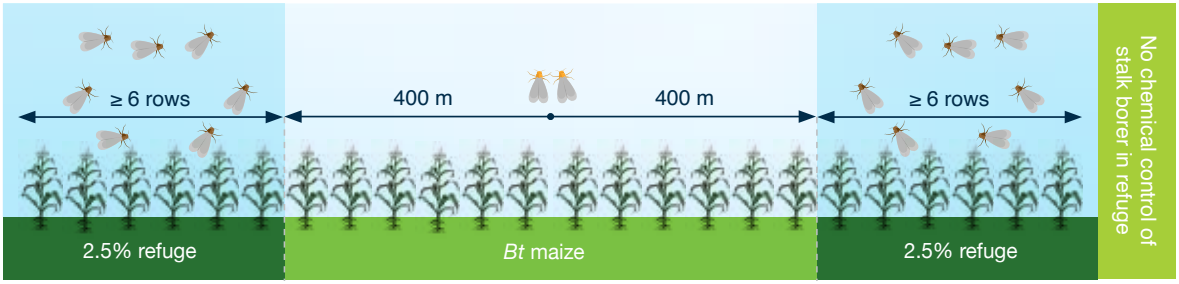
The development of a good root system is crucial to enable a plant to absorb more water and nutrients and is therefore more resilient against diseases and harsh environmental conditions. With this in mind, it is important to control nematodes timeously and effectively by applying **Velum® 1 GR**.

Bothaville 2018: *Root observations*

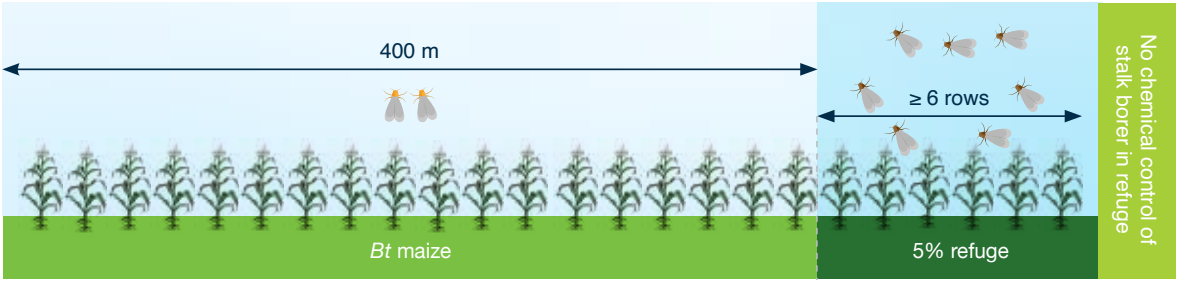
Plant the correct *refuge area for maize*

Step 1 *Choose the option best suited to your farm:*

Option 1A - field size over 800 m

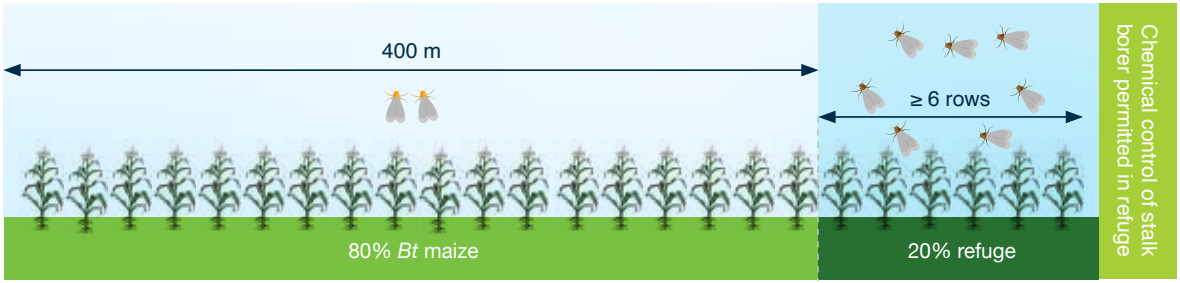


Option 1B - field size under 800 m



KEY Resistant adult insects Susceptible adult insects

Option 2 - field size under 800 m



KEY Resistant adult insects Susceptible adult insects

Step 2

Depending on the option chosen above, your refuge must be planted in the following manner:

- Similar hybrid from the same maturity group
- Each grower must have their own refuge
- Minimum 6 row-strips
- Plant within 7 days of *Bt* maize
- Cover borders
- Do not mix seed
- Same agronomical conditions
- Non-*BT* maize must be within 400 m of *Bt* plants
- Do not cross *Bt* rows

Step 3

Scout Bt plantings regularly; if more than 10% stalk borer damage on YieldGard, or any damage on YieldGard MAIZE 2 is found, contact your seed representative immediately.

BUILD-UP **PROTECTION**

WITH **BUILT-IN** TECHNOLOGY

Optimal performance starts from within. With our built-in technology designed to protect your maize, you can rest assured that your crops are taken care of.

YieldGard® MAIZE 2

YieldGard® MAIZE 2 offers:

- Built-in protection against maize stalk borers *Busseola fusca* and *Chilo partellus*, as well as the fall armyworm (*Spodoptera frugiperda*).
- Secures the hybrid's genetic potential.
- Reduce chemical application for insect control.

Roundup Ready® MAIZE 2

Roundup Ready® MAIZE 2 offers:

- Built-in tolerance to registered and approved glyphosate herbicides.
- Effective broad-spectrum weed control for maximised yield potential.
- Crop safe weed control system.
- Secures the hybrid's genetic potential.
- Enables no-till farming and conservation cultivation practices.

Maize Herbicide Spray Programme

PRE-PLANT

Standard base programme

Roundup TURBO HERBICIDE

Volunteer Roundup Ready® maize programme

Roundup TURBO HERBICIDE

Pantera®

Silwet®

Roundup PowerMAX HERBICIDE and/or LAUDIS

Breaking ground

* High weed pressure – early with a second follow-up application

With plant

BULLET®

and/or

Guardian

* Always add 2% AMS – Ammonium sulphate

* Always refer to the Laudis® label for correct product combinations

Standard base programme

Roundup Ready® TECHNOLOGY

Roundup PowerMAX HERBICIDE

Directed spray

Maize Herbicide Spray Programme

PRE-PLANT

Standard base programme

Roundup TURBO HERBICIDE

Volunteer Roundup Ready® maize programme

Roundup TURBO HERBICIDE

Pantera®

Silwet®

Roundup PowerMAX HERBICIDE and LAUDIS

Breaking ground * High weed pressure – early with first application 3-5 weeks after planting

Roundup PowerMAX HERBICIDE and HARNESS Xtra and LAUDIS

Breaking ground * High weed pressure – early with late germinating grasses

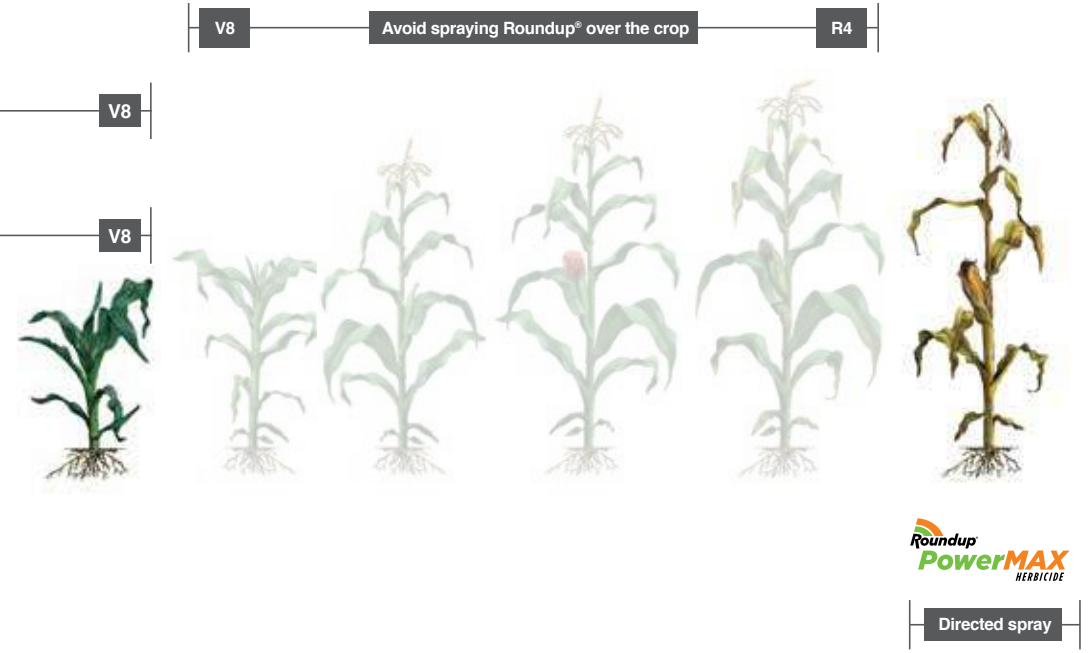
With plant BULLET® and/or Guardian

* Always add 2% AMS – Ammonium sulphate

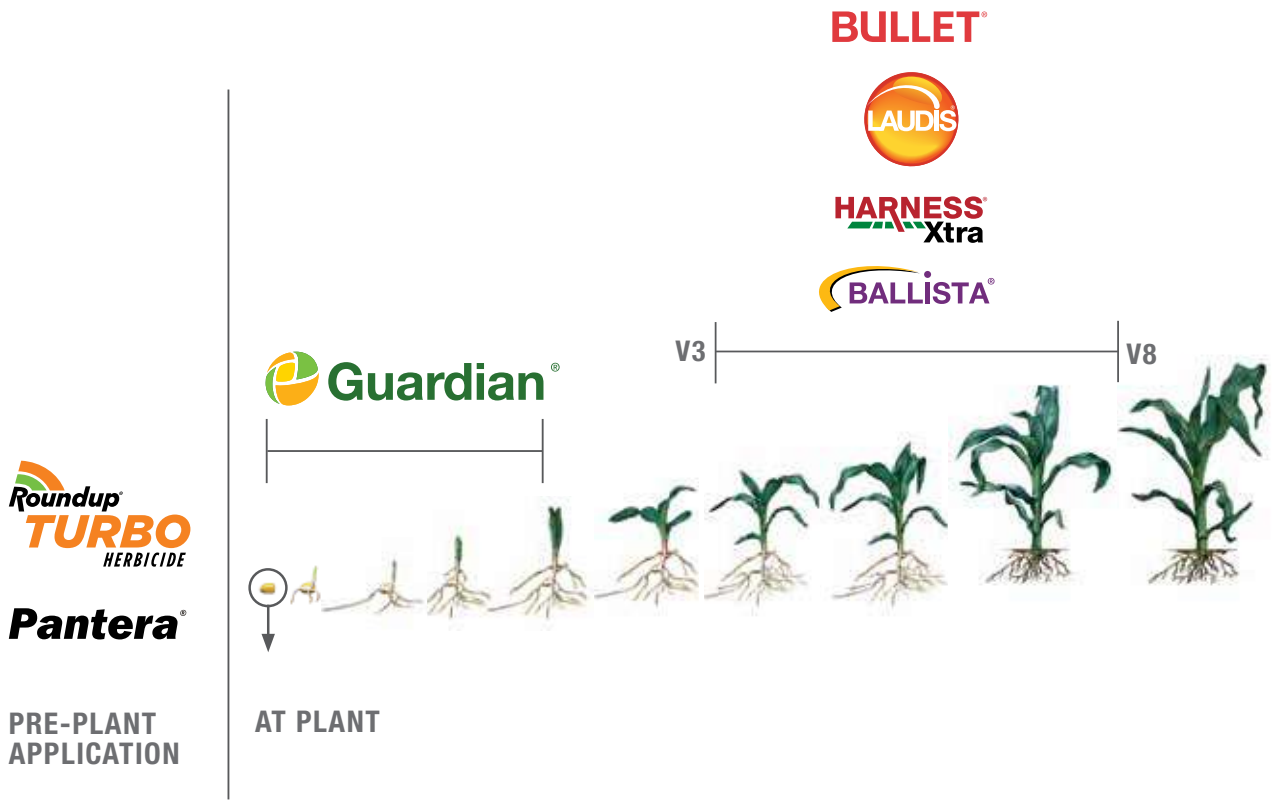
* Always refer to the Laudis® label for correct product combinations

Late germinating grasses programme

Roundup Ready® TECHNOLOGY

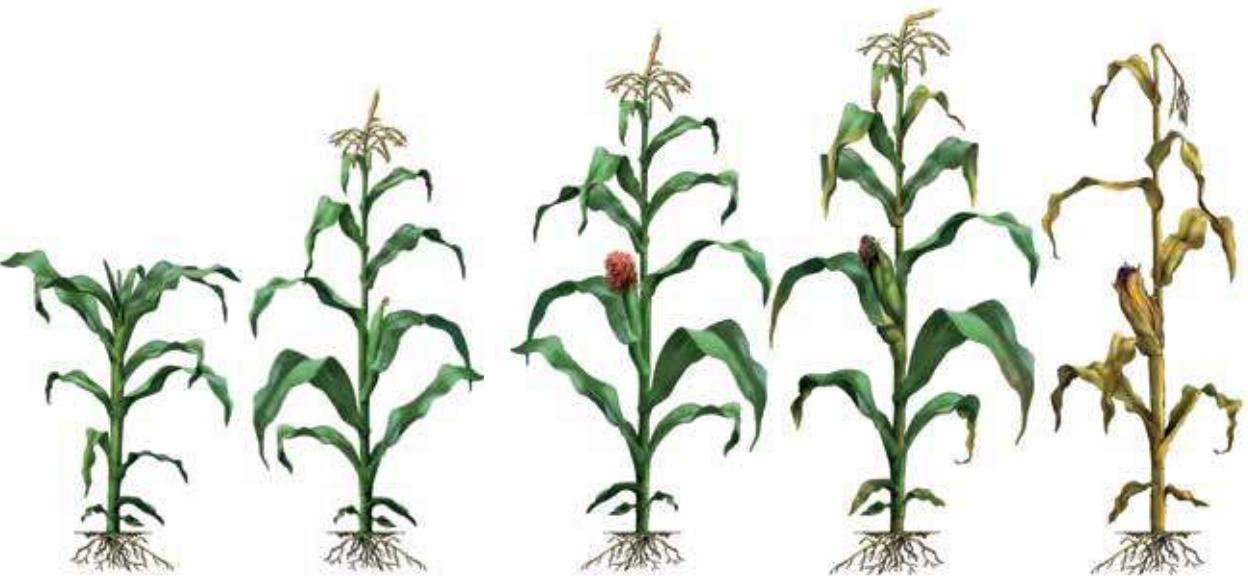


Maize spray programme



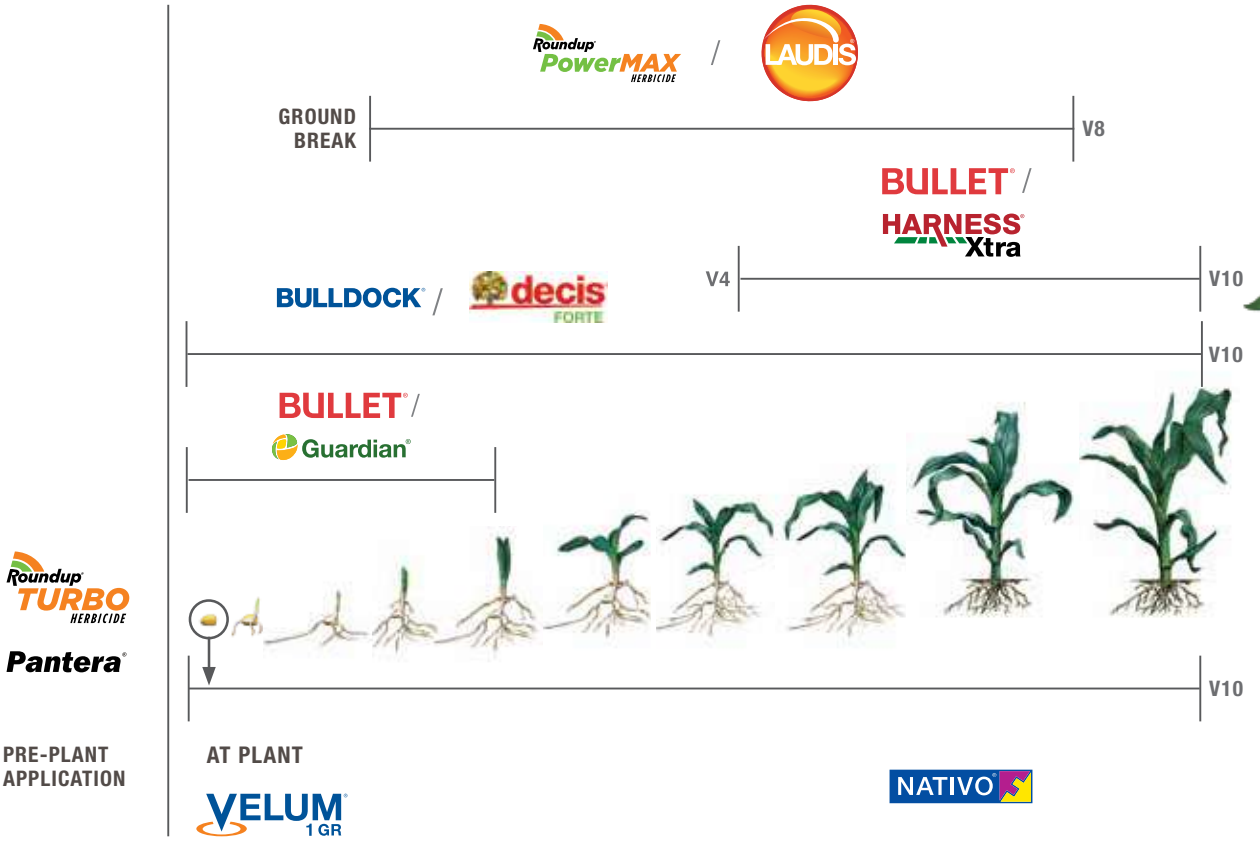
This is just a guideline and can vary according to the area and the choice of hybrid.

Bayer herbicide programme



*For more information, please contact your **Bayer** representative.*

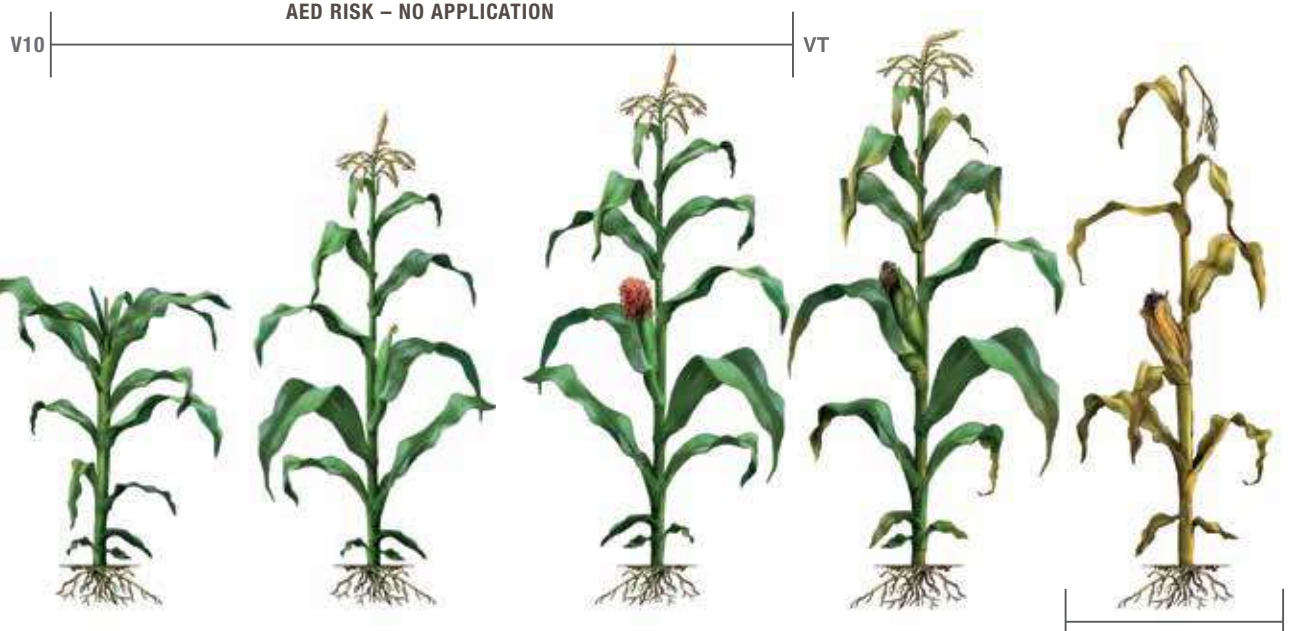
Maize spray programme



// YieldGard® MAIZE 2 controls maize stem borer and fall armyworm.
// This is only a guideline and can vary according to the area and hybrid choice.
// Contact your Bayer representative for more information.

AED RISK – NO APPLICATION

V10 — VT



V12 — V14

AVOID FOLIAR APPLICATION

Roundup PowerMAX HERBICIDE

DIRECTED APPLICATION

R1

Zantara / NATIVO


BAYER
BULLET®
BULLDOCK®
decis® FORTE
Guardian®
HARNESS® Xtra
LAUDIS®
NATIVO®
Pantera
VELUM® 1 GR
Zantara®
WE BACK YOU
DEKALB
SEED YOUR SUCCESS
Roundup PowerMAX HERBICIDE
ACCELERON® SEED APPLIED SOLUTIONS
Roundup TURBO HERBICIDE
CLIMATE FIELDVIEW™

HERBICIDES

LAUDIS®

Guardian

BULLET®

HARNESS® Xtra

Pantera®

Roundup PowerMAX® HERBICIDE

Roundup TURBO® HERBICIDE

Scan these codes with your phone's camera or use the link to learn more full range of Enhanced Crop Protection solutions for maize ...

FUNGICIDES

NATIVO®

Zantara®

INSECTICIDES

BULLDOCK®

decis® FORTE

NEMATICIDES

VELUM® 1 GR

Registration Ownership

Roundup® contains 360 g glyphosate/ℓ. Caution. Reg. No. L0407 (Act No. 36 of 1947).
Roundup® PowerMAX contains 540 g glyphosate/ℓ. Caution. Reg. No. L7769 (Act No. 36 of 1947).
Roundup® TURBO contains 450 g glyphosate/ℓ. Reg. No. L7166 (Act No. 36 of 1947).
Bullet® contains 250 g acetochlor, 225 g atrazine, 225 g terbuthylazine/ℓ. Reg. No. L5623 (Act No. 36 of 1947).
Guardian® contains 840 g acetochlor/ℓ. Reg. No. L4862 (Act No. 36 of 1947).
Harness® Xtra contains 960 g acetochlor/ℓ. Reg. No. L7703 (Act No. 36 of 1947).

The registration owner of **DEKALB®**, **Roundup®**, **Roundup Ready®**, **Roundup® TURBO**, **Guardian®**, **Roundup® PowerMAX**, **Bullet®**, **Harness® Xtra**, **Roundup Ready PLUS®**, **YieldGard®**, **Acceleron®**, **Roundup Ready® MAIZE 2**, **Roundup Ready® Technology**, **YieldGard® MAIZE 2,** and **Transorb™**, is **Bayer** AG, Germany.

Climate FieldView™, **FieldView™ Drive**, **FieldView™ Plus** are registered trademarks of The Climate Corporation.

The following products are trademarks of Bayer AG, Germany:

Bulldock® Reg. No. L4540 (Act No. 36 of 1947)
Create® Reg. No. L10658 (Act No. 36 of 1947)
Decis® Forte Reg. No. L6563 (Act No. 36 of 1947)
Laudis® Reg. No. L8525 (Act No. 36 of 1947)
Nativo® Reg. No. L8942 (Act No. 36 of 1947)
Zantara® Reg. No. L10011 (Act No. 36 of 1947)
Velum® 1 GR Reg. No. L10783 (Act No. 36 of 1947)
Velum® Prime Reg. No. L9965 (Act No. 36 of 1947)
Bullet® Reg. No. L5623 (Act No. 36 of 1947)

The following products are all trademarks of Syngenta SA (Pty) Ltd:

Maxim® Quattro Reg. No. L9494 (Act No. 36 of 1947)
Cruiser® Force Reg. No. L8597 (Act No. 36 of 1947)
Avicta® Reg. No. L8496 (Act No. 36 of 1947)

The following products are trademarks of BASF Holdings SA:

Poncho® Reg. No. L8581 (Act No. 36 of 1947)

The following products are trademarks of Arysta LifeScience SA:

Pantera® is a selective post-emergent emulsifiable concentrated systemic herbicide for the control of certain annual and perennial grasses as well as **Roundup Ready®** volunteer maize. Reg. No. L6451 (Act No. 36 of 1947).
Pantera® contains Quizalofop-p-tefury (120 g/ℓ). Harmful.

Silwet® is a non-ionic organosilicone surfactant for use with crop protection products. Reg. No. L6145 (Act No. 36 of 1947).

Bayer *Team*

Get in touch with your local representative

Our team partners with you to create tailored recommendations to maximise your yield potential and profitability by combining on-farm products and digital platforms. We provide cutting-edge advanced **DEKALB** genetics with above-average hybrid performance as well as various seed treatment packages and innovative crop protection solutions.

Kobus Meintjies
Crop Science Country Commercial Lead
South Africa
082 388 0232

TERRITORY EAST

GP van den Berg
Territory Manager:
Seed, Crop Protection and Climate FieldView
Howick
083 229 2649

Mynhardt Noëth
Area Manager: Crop Protection
KwaZulu-Natal (KZN)
071 362 9305

Janneman Kotze
Area Manager: Crop Protection
Mpumalanga Highveld
066 306 8534

REGION 1

Ockie van Schalkwyk
Area Manager – 082 851 8483

Peet la Cock
Middelburg, Belfast, Stoffberg – 082 325 6648

Lourens Swart
Bronkhorstspruit, Ogies, Delmas – 082 682 2079

Jan Gouws
Bronkhorstspruit, Bapsfontein, Ogies, Delmas –
079 528 5295

Daan Coetzer Jnr
Groblersdal, Marble Hall, Lydenburg – 073 912 7686

Nelius Moll
Amersfoort, Ermelo, Carolina – 084 409 1594

Riehan Janse van Rensburg
Bethal, Hoeveldrif – 082 781 4229

Jan Saaiman
Standerton – 066 480 1254

Paul Terblanche
Middelburg, Hendrina – 076 062 5654

REGION 3

Mynhardt Noëth
Area Manager: Crop Protection and Seed
071 362 9305

Louis du Plessis
Newcastle, Dundee – 082 372 2831

Kevin Gotte
KZN Midlands – 082 466 2040

Gavin Tarr
Underberg, Kokstad – 082 494 6099

Franz Putz
Bergville, Winterton – 082 324 4593

Richard Perks
Ugie, Elliot, Underberg – 082 723 0216

TERRITORY CENTRAL

Johan Bibbey
Territory Manager: Seed, Crop Protection and Climate FieldView
Central SA and Northern Cape
082 924 1077

REGION 2

Mof Krugel
Area Manager: Seed
Gauteng and Eastern Free State
082 388 0755

Thom Steyn
Area Manager: Crop Protection
Eastern Free State
082 443 3881

Francois de Villiers
Harrismith, Warden – 082 779 5189

Arno Boshoff
Bethlehem, Kestell, Fouriesburg – 082 944 9303

Francois Koch
Nigel, Balfour, Greylingstad, Grootvlei, Heidelberg, Villiers – 083 651 1571

Hennie Oosthuizen
Nigel, Balfour, Greylingstad, Grootvlei, Heidelberg, Villiers – 076 485 6874

Jan Schabort
Frankfort, Villiers – 082 773 4490

Barto Luus
Vrede – 082 378 2951

Wian Bolton
Daniëlsrus, Reitz, Petrus Steyn – 072 326 8000

Louis Pieterse Snr
Reitz, Petrus Steyn – 082 578 5614

Louis Pieterse Jnr
Reitz, Petrus Steyn – 082 944 7716

REGION 4

Jaco du Toit
Area Manager Seed:
Northwest Free State
082 818 2356

Tiaan Erasmus
Area manager: Crop Protection
Northwest Free State
082 615 4625

Leon Pretorius
Parys, Koppies, Kroonstad, Sasolburg
082 868 1243

SG Botes
Viljoenskroon, Vierfontein – 082 651 9105

Gert Erasmus
Bothaville, Odendaalsrus – 082 446 6088

Thys Ellis
Bothaville – 072 243 6113

Wynand Nortjé
Heilbron, Sasolburg – 071 606 5963

Stephan Erasmus
Fochville, Vereeniging, Potchefstroom –
082 315 3107

Cliffie Cawood
Senekal, Winburg, Steynsrus, Arlington
083 444 5527

Charles Kotzé
Clocolan, Ficksburg, Ladybrand, Marquard
082 898 7631

REGION 6

Hennie Stander
Area Maanger: Seed and Crop protection
Northern, Eastern and Southern Cape
071 304 1165

Tiaan Vlok
Douglas – 082 551 2580

Louwtjie Steenkamp
Jacobsdal – 082 808 3316

Pieter-Paul de Vries
Upington, Groblershoop, Prieska – 082 948 2595

Andries Etsabeth
Prieska – 079 496 4663

Ben Cronjé
Hopetown, Luckhof – 083 701 7476

Nolene Cronjé
Hopetown, Luckhof – 083 701 7476

RP Oelofse
Vaalharts – 082 823 2598

Dirkie Visser
Cradock, Hofmeyer, Gariep Dam – 082 550 4499

Flip Snyman
George, Humansdorp, Patensie – 082 335 4783

Hendrik Engelbrecht
Riviersonderend – 082 388 0235

Wille Loubser
Durbanville – 071 604 5965

TERRITORY WEST

Pieter Basson
Territory Manager:
Seed, Crop Protection and Climate FieldView
082 314 1889

Richard Bamberger
Area Manager: Crop Protection – 072 743 7637

Schalk Kotze
Area Manager: Crop Protection – 082 896 2470

REGION 5

Hannes Kriel
Area Manager
079 525 6251

Rudi de Bruin
Schweizer-Reneke – 066 307 3320

DW de Villiers
Bultfontein – 082 652 2550

André Bezuidenhout
Bloemhof, Hoopstad – 083 448 9194

Sam Kramer
Kroonstad – 082 894 5788

Rudolph Marais
Wesselsbron – 083 293 0686

Ernst Marais
Wesselsbron, Welkom – 082 486 6440

Charl Blom
Christiana, Hertzogville – 079 874 6850

Benna van Wyk
Bloemfontein – 082 337 0910

Jacques van der Vyver
Wolmaransstad, Leeudoringstad, Makwassie
082 866 1698

REGION 7

Coenie Reichel
Area Manager: Seed
083 458 3135

Willa Botha
Hartbeesfontein, Ottosdal, Klerksdorp
083 287 6443

Werner Swanich
Lichtenburg West, Mafikeng, Zeerust
076 812 2041

Hannes Janse van Rensburg
Lichtenburg East, Coligny
083 230 8191

Gert van der Linde
Biesiesvlei, Sannieshof, Mareetsane, Stella
079 524 7954

Carl Bamberger
Delareyville, Vryburg, Migdol – 079 525 6591

André Meyer
Koster, Derby, Tarlton, Randfontein
082 388 0198

Deon Schutte
Potchefstroom North, Ventersdorp
060 623 7667

Renier Viljoen
Thabazimbi, Brits – 082 377 5848

Pine Liebenberg
Warmbad – 083 255 9566

SMALL-HOLDER AND EMERGING COMMERCIAL – ISANDO

Dudu Mashile
Territory Manager – 082 450 1212

Rodney Ndou
GP/NW/LP/Lesotho/ Botswana – 076 813 4276

Sandile Khumalo
KwaZulu Natal, Eastern Cape, eSwatini
082 388 0215

Chris Phakathi
Mpumalanga – 082 388 4446

TERRITORY NORTH

Schalk van Wyk
Territory Manager
Nelspruit
082 878 0818

Jaco Barnard
Area Manager: Crop Protection
072 374 6244

TERRITORY SOUTH (WESTERN, EASTERN AND NORTHERN CAPE)

Margaret Reinecke
Area Manager
Paarl
082 658 1250

Jannie Bruwer
Area Manager: Crop Protection
082 806 8715

Bennie Botes
Area Manager: Crop Protection
082 871 2318

Jean Pierre Joubert
Area Manager: Crop Protection
Eastern Cape
082 374 3812

Nicolize Stigaard
Area Manager: Crop Protection
082 650 6660

Maret van Rensburg
Area Manager: Crop Protection
076 062 7312

MARKETING AND STRATEGY

Arthur Schröder
Maize Strategy Manager:
Seed and Crop Protection
Africa
082 388 0190

MARKET DEVELOPMENT

Stephen Nel
Head: Market Development
Africa
082 887 6696

Leonard Oberholzer
Market Development Lead
South-Africa
082 773 0308

AGRONOMISTS

HIGHVELD

Jako Benadie – 082 096 2907

André Botes – 082 374 1647

Willie van der Merwe – 082 388 0650

KWAZULU-NATAL

Dennis Makuwa – 072 595 7080

NORTH WEST

Hanco de Klerk – 082 388 0236

Paul Groenewald – 084 200 2314

WESTERN FREE STATE

Wilhelm van Heerden – 082 095 8903

Tony Johnson – 082 390 5509

NORTHERN AND EASTERN CAPE

Anton Swanepoel – 082 821 6832

EASTERN FREE STATE

Kevin Nel – 079 890 2125

Hentie Minnaar – 072 655 5454

CLIMATE FIELDVIEW

Hugo le Roux
Digital Activation Manager
082 768 5166

Jurgen Putz
Digital Activation Specialist
East
084 626 8891

Peter Brazier Erasmus
Digital Activation Specialist
West
080 099 8987

Tiaan Venter
Digital Activation Specialist
Central
080 099 8987

Hanri de Jonge
Customer Success Specialist
082 563 6296

Your pride *our passion*

Calendar 2022

Health for all,

Hunger for none

01 JANUARY

sun	mon	tue	wed	thu	fri	sat
						01 PH
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

2022

BAYER

Let's talk ...

@DEKALBSA @Bayer4Crops

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www.bayer.co.za

Focus:
Pollination

Did you know?
Moisture and heat stress during pollination can decrease yields significantly.

DO NOT ...
apply glyphosate over the top during pollination.

HOT TIP
Scout your fields regularly.

FAST FACTS
- Very hot and dry weather result in poor pollination.
- Moisture deficiencies during pollination can decrease yield by 7% per day.
- Cold nights and warm days can influence the synchronisation of silks and tassels.
- Hail during pollination can cost 100% yield loss.

02 FEBRUARY

sun	mon	tue	wed	thu	fri	sat
		01	02	03	04	05
06	07	08	09	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

2022

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www.bayer.co.za

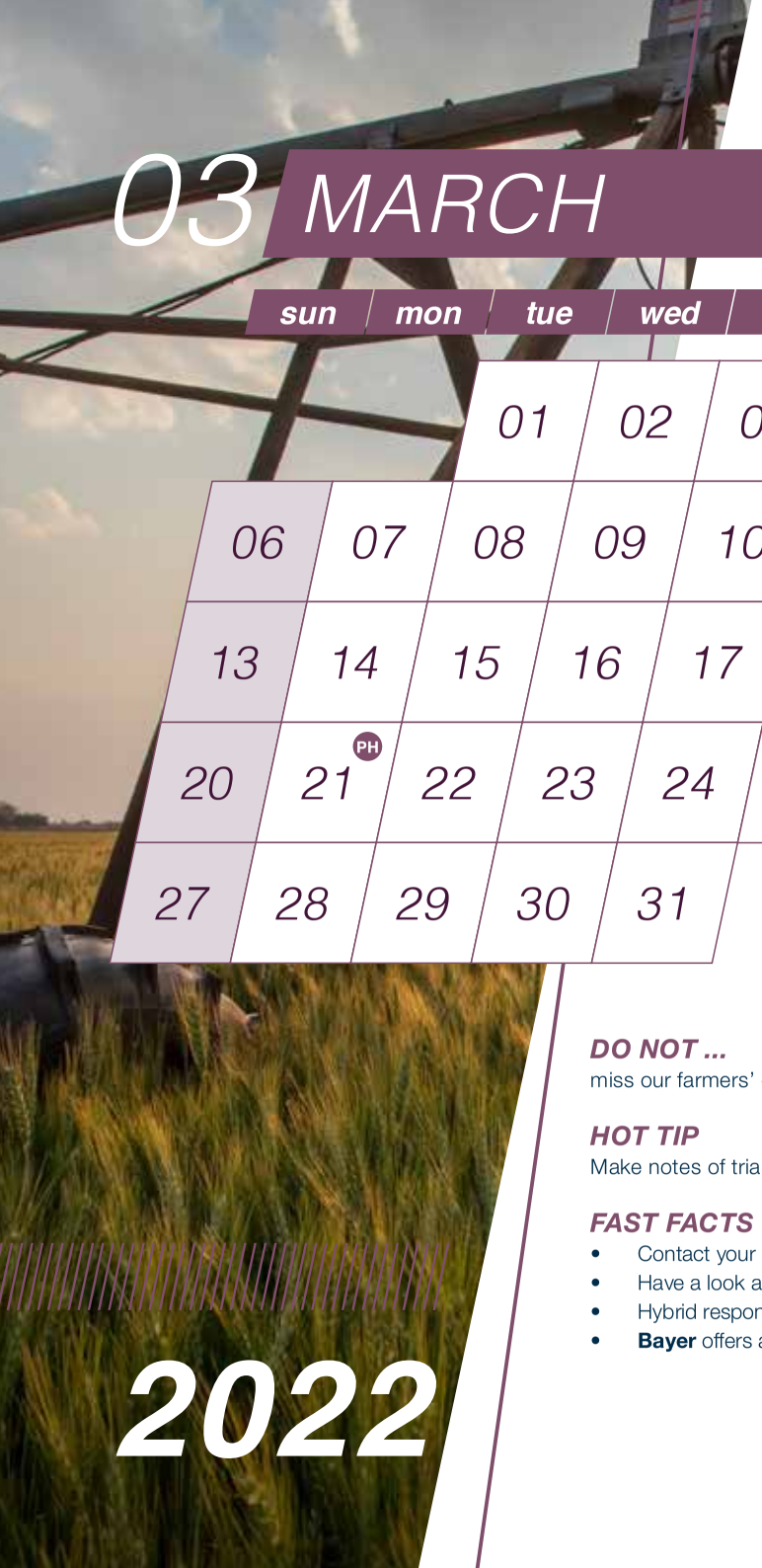
Focus:
Seed requirements

Did you know?
Choosing a hybrid suited to a combination of environmental factors is essential for reaching the desired yield.

DO NOT ...
make decisions on one-year trial data.

HOT TIP
Visit **Bayer's** centres of excellence.

FAST FACTS
- The correct seed size is important for your planting operations.
- Planting density recommendations differ per hybrid to reach optimum yield.
- When looking at trial data, choose hybrids that performed well over multiple locations and seasons in your region.
- Make sure you choose the hybrid from the correct maturity group for your region.



03 MARCH

sun	mon	tue	wed	thu	fri	sat
			01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
19	20	21 (PH)	22	23	24	25
26	27	28	29	30	31	

2022

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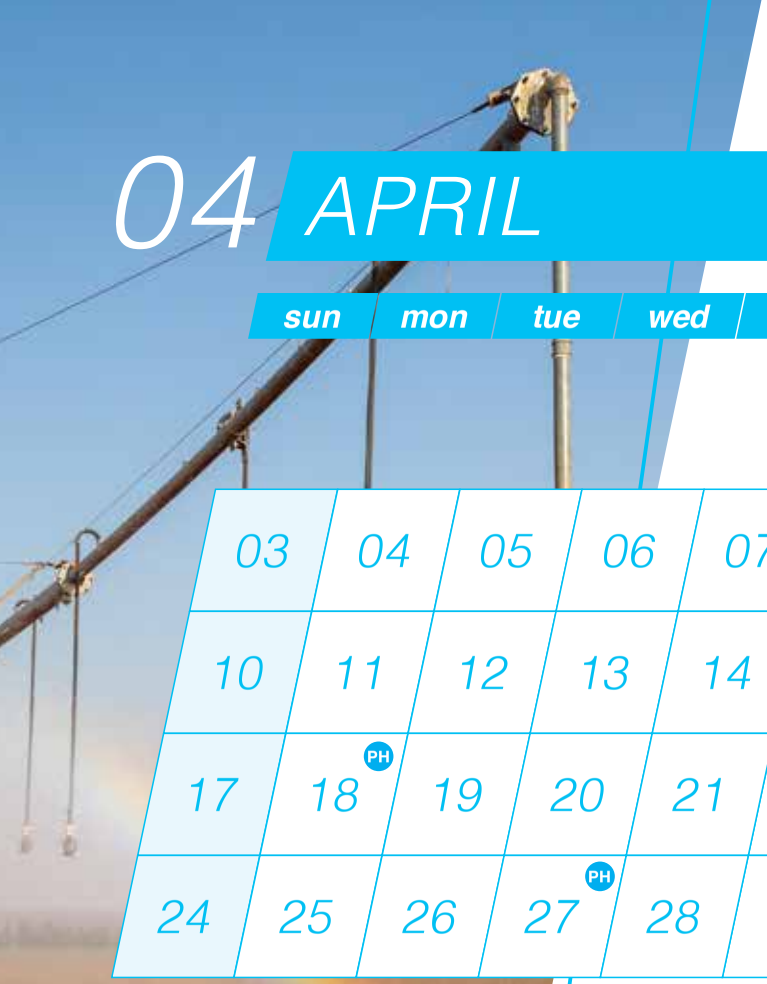
Focus:
Farmers' Days

Did you know?
We share important information at our farmer's days regarding the latest technologies and solutions for your farm.

DO NOT ...
miss our farmers' days!

HOT TIP
Make notes of trial data for future reference.

FAST FACTS
- Contact your local seed representative for the farmers' days information.
- Have a look at the newest, promising hybrids at farmers' days.
- Hybrid response to plant density can be observed at farmers' days.
- **Bayer** offers a fully tailored solution to address most of the challenges on your farm.



04 APRIL

sun	mon	tue	wed	thu	fri	sat
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15 PH	16
17	18 PH	19	20	21	22	23
24	25	26	27 PH	28	29	30

2022

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Focus:

Time to reflect

Did you know?

April is the ideal time to reflect on your decisions of the past season. These include hybrid choice, plant population, crop protection and fertilisation.

DO NOT ...

forget to talk to your **DEKALB®** representative regarding your hybrid choices.

HOT TIP

Make sure your harvesting equipment is in order.

FAST FACTS

- Your crop is at physiological maturity if you can see the black layer on the kernel.
- The development of maize in the vegetative phase is described by the number of leaves with visible collars.
- Biotechnology can help farmers to maximize their yield and minimize the impact of insects and weeds.
- Drought is responsible for 67% of yield losses in maize.

05 MAY

sun	mon	tue	wed	thu	fri	sat
01 PH	02 PH	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2022

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Focus:
Yield verification

Did you know?
Crop estimates and yield verification can help identify opportunities for the next season.

DO NOT ...
forget to visit us at Nampo.

HOT TIP
Order your seed for your refuge areas.

FAST FACTS
- **Climate Fieldview**™ images can be used to monitor crop health and growth.
- Evaluating maize ears can give a good indication of nutritional deficiencies.
- Grain yield is determined by the number of kernels per ear x kernel weight x the number of ears per ha.
- Silage yield is determined by plant weight x plants/ha.

06 JUNE

sun	mon	tue	wed	thu	fri	sat
			01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16 (PH)	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

2022

BAYER

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www.bayer.co.za

Focus:
Harvesting

Did you know?
Maize maturity is influenced by temperature and water disposability – this influences the timing of harvest.

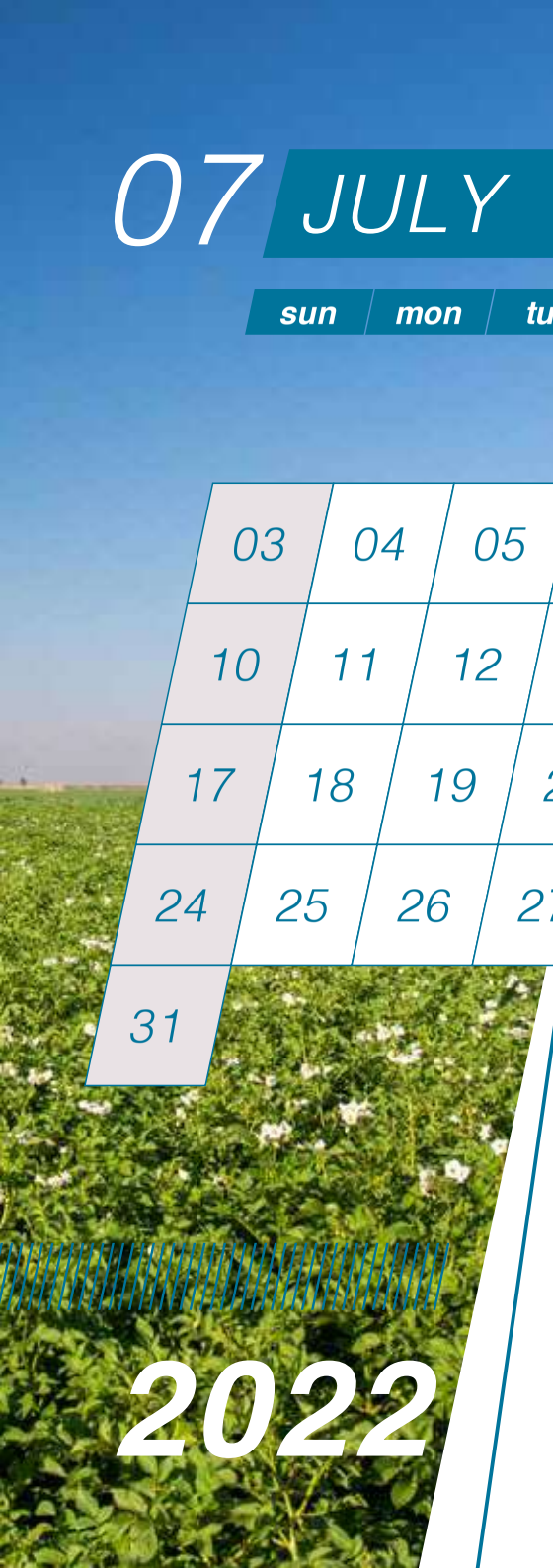
DO NOT ...
forget to scout regularly to identify problems like lodging and grain quality if maize is harvested at the right time.

HOT TIP
If the maize is harvested too early you might face high drying costs.

FAST FACTS
- The optimal whole plant dry content for silage should be between 28% and 38%.
- Harvest timing influences grain quality.
- The time of harvest depends on the maturity group of the hybrid.
- Earlier hybrids usually have less yield potential on dry land.

07 JULY

sun	mon	tue	wed	thu	fri	sat
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						



2022

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www.bayer.co.za

Focus:
Seed storage

Did you know?
The quality of seed can be negatively impacted if not stored under optimum conditions.

DO NOT ...
store your seed in direct sunlight or directly on a cement floor.

HOT TIP
Store seed and chemicals separately.

FAST FACTS
- Carrying capacity is the ability of a seed to maintain its germination performance whilst being stored as a seed.
- Maize has a carrying capacity of 3-5 years.
- Harrington's rule says that humidity and temperature have a huge impact on the carrying capacity of seeds.
- Regular fluctuations in storage temperature will affect seed negatively.

08 AUGUST

sun	mon	tue	wed	thu	fri	sat
						06
07	08	09 (PH)	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

2022

BAYER

Let's talk ...

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www.bayer.co.za

Focus:
Grain storage

Did you know?
Grain can be stored in clean bins for a long time.

DO NOT ...
combine old and new grain in one storage bin.

HOT TIP
Poor grain quality can cause storage problems.

FAST FACTS

- To manage aeration, the temperature in the bin should be within a range of 15-20 degrees of the monthly average temperature.
- During spring and autumn, when temperatures change quickly, a weekly bin inspection for smells and insects is necessary.
- To control insects, storage bins should be cleaned on the inside and outside and an insecticide should be applied to the surfaces.
- Make sure that the storage bins do not have leakages.

09 SEPTEMBER

sun	mon	tue	wed	thu	fri	sat
				01	02	03
04	05	06	07	08	09	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24 PH
25	26	27	28	29	30	

2022

Let's talk ...

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www.cropscience.bayer.co.za
www.bayer.co.za

Focus:
Planting, positioning of hybrids & soil inspections.

Did you know?

Choosing the best hybrid for a combination of environmental factors is essential for reaching desired yield results.

DO NOT ...

make hybrid decisions on single-year data.

HOT TIP

Keep an auger and spade in the vehicle.

FAST FACTS

- Choose hybrids that have a proven yield record in your area.
- Soil maps and yield maps should be interpreted together.
- Spread your risk by planting several hybrids and populations.
- Hybrid population recommendations differ for the same yield potential.
- The physical and chemical characteristics of soil can influence root development.
- Root development gives a good indication of what is happening in your soil.
- Different soils have different tillage requirements.

10 OCTOBER

sun	mon	tue	wed	thu	fri	sat
						01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

2022

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Focus: *Planting & fertilisation*

Did you know?

Narrow spacing contributes to efficient use of nutrients and leads to faster canopy closing. Each nutrient is important for healthy plants and maximum yield.

DO NOT ...

plant uneven row spacings as it leads to the uneven development of crops and uneven positioning of ears.

HOT TIP

Plant as early as possible or as late as necessary. Timing is important for the development of healthy crops.

FAST FACTS:

- Planting density is a field-to-field decision.
- Planting depth depends on the type of soil.
- The hybrid determines the optimal planting density.
- Yield reduction occurs when the concentration and mobility of nutrients are too low.
- Yield reduction occurs when nutrients are located below a density layer.
- Nutrients, immobile in plants, will have deficiency signs on upper leaves.
- Nutrients, mobile in plants, will have deficiency signs on lower leaves (old-growth).

11 NOVEMBER

sun	mon	tue	wed	thu	fri	sat
		01	02	03	04	05
06	07	08	09	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

2022

BAYER

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Focus:
Irrigation and competition

Did you know?
The crop, soil type and irrigation system will determine the when, how and how much water applications are needed. Weeds compete with crops for water, nutrients and sunlight.

DO NOT ...

only use herbicides with a single mode of action.

HOT TIP

Roundup® PowerMAX is available in a new 660 ℓ container.

FAST FACTS

- To prevent water runoff at the time of irrigation, the speed of water infiltration into the soil must be known.
- 70% of the roots are found in the top 40 cm of the soil.
- The amount of water supplied in each stage should cover the crop's needs.
- Soil structures, root growth and irrigation systems influence irrigation efficiency.
- Maize water use reaches its peak during the early reproductive stages (R1- R2).
- Weeds are plants that grow where they are not wanted and cause more damage than benefit.
- Weeds can be characterised by several criteria such as germination and lifecycle.
- **Laudis®** and **Bullet®** are the only HHPD herbicides with a safener on maize.
- Safeners protect the plant from herbicide injury without reducing weed control.
- Follow an integrated weed control management system to prevent herbicide resistance.

12 DECEMBER

sun	mon	tue	wed	thu	fri	sat
				01	02	03
04	05	06	07	08	09	10
11	12	13	14	15	16 PH	17
18	19	20	21	22	23	24
25 PH	26 PH	27	28	29	30	31

2022

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Focus:

Maize utilisation

Did you know?

Apart from animal feed and human consumption, maize has many other uses.

DO NOT ...

underestimate the importance of maize in society.

HOT TIP

Order your crop protection products timeously.

FAST FACTS

- Many breakfast cereals contain maize.
- Everything from the colour and smell to the cleaning ability of hand soap is all thanks to maize which accounts for ¼ of its ingredients.
- Maize produced dextrin is a binding compound used to produce paints, chalk, glue and ceramic.
- Maize starch is used as a bonding agent in tablets, helping to hold together all the other ingredients, as well as a basis for cough syrup, antibiotics disinfectants and vitamin carriers.

01 JANUARY

sun	mon	tue	wed	thu	fri	sat
01 PH	02 PH	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2023

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Focus:
Scouting

Did you know?
Fields should be scouted weekly to ensure control of weeds, diseases and pests.

DO NOT ...
neglect your scouting duties.

HOT TIP
Do not forget about nematodes and the unique solutions that **Bayer** offers.

FAST FACTS
- On average, one in every 8th crop plant will fail to yield because of fungal diseases.
- Losses in maize due to diseases vary between regions but can be as high as 30% in affected regions.
- **Nativo**® and **Zantara**® give excellent control against maize leave diseases.
- **YieldGard**® **MAIZE 2** controls fall armyworm and maize borers.
- More than 2 500 species of nematodes can attack crops, reducing yield.

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The information contained in this brochure is presented in good faith and we do not accept any legal liability in terms thereof. Pest resistance referred to in this brochure is indicative of the hybrid's tolerance, not its resistance. Information regarding hybrid tolerance is based on all the research available as at June 2021. Please note that certain products are subject to plant breeders' rights .

Contact your nearest representative for more information

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Bayer (Pty) Ltd. Reg. No. 1968/011192/07
27 Wrench Road, Isando, 1601.
PO Box 143, Isando, 1600. **Tel:** +27 11 921 5002

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