

MORE THAN SEED

DEKALB® MAIZE
PRODUCT GUIDE

2023





IT'S AN
ADVANCED
SOLUTION!





“ AGRICULTURE IS OUR WISEST PURSUIT
BECAUSE IT WILL IN THE END CONTRIBUTE
MOST TO REAL WEALTH, GOOD MORALS,
AND HAPPINESS. ”
– Thomas Jefferson

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Use this guide with confidence for all your planning.

IT'S MORE THAN JUST SEED ...

What does the #DEKALBDIFFERENCE mean to you?

As a maize farmer, you constantly face a variety of challenges that pose a threat to your crop performance and in effect, your profitability. We understand the importance of mitigating risks to ensure that you receive maximum return on your seed investment. That's where the **#DEKALBdifference** comes in! With our full package solution, we help you to grow more with less, master current and future challenges and optimise your farm's profitability.

With this full package solution, we focus on providing advanced genetics to boost your crop performance, seed treatment and crop protection options to help protect your seed investment and a partnership that will drive change on your farm.

We're DEKALB®, and what we offer you is the
#DEKALBDIFFERENCE

The #DEKALBdifference is a full package with a combined solution for maize, supported by our three pillars:

01

PERFORMANCE

- /// A broad portfolio of cutting-edge, high-potential hybrids.
- /// Adaptable in stressful environmental conditions.
- /// Research and development – science-based precision breeding.

02

PROTECTION

- /// Pre-emergence protection through seed treatment.
- /// Post-emergence protection through **Bayer's** extensive crop protection offering.

03

PARTNERSHIP

- /// Continuous support and trusted agronomic advice from our **DEKALB®** representatives and team of agronomists.
- /// **FieldView™** – digital tools and platforms to help you make data-driven decisions.

#DEKALBDIFFERENCE



SEED YOUR SUCCESS

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

pg 06



Advanced Genetics



pg 66



Crop Protection



pg 104



Data Recommendations



The genetic diversity of our hybrids forms 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



GENETICS



PLANT THE #DEKALBDIFFERENCE

HYBRIDS BRED TO MAXIMISE YIELD AND QUALITY

In farming, nothing exists in isolation. Everything interacts with everything else. This is why we offer you more than just seeds. We believe that an integrated offer can make all the difference for you. Discover the potential of advanced hybrids for any condition, protective products inside and outside the bag as well as useful digital tools.

Discover the **#DEKALBdifference**.



THE DEKALB® 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.



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.

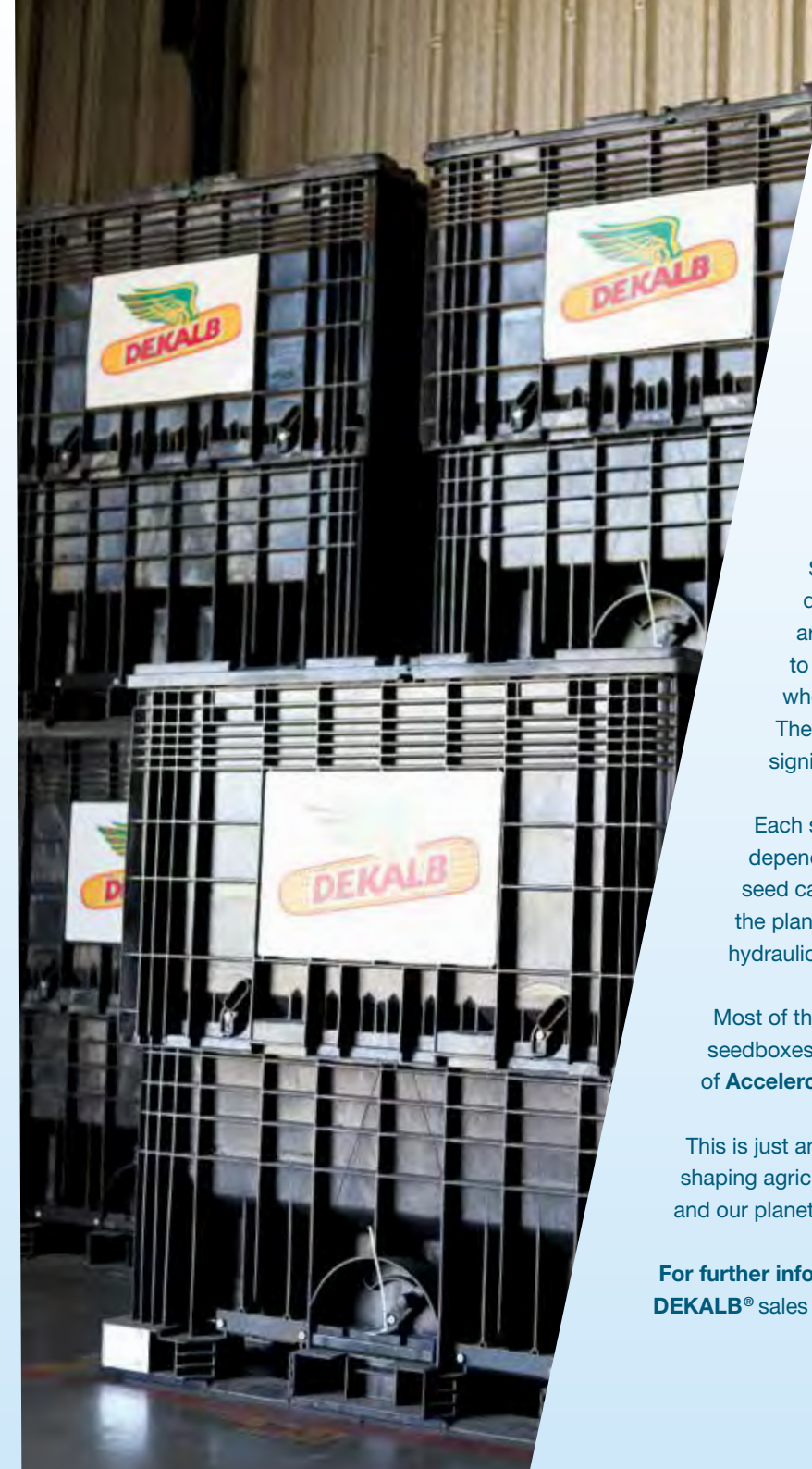
Seedboxes provide additional protection against dirt, moisture, pests and theft. These seedboxes are strong and durable and can carry loads of up to 1.25 tons. Multiple containers also interlock when stacked or nested for safe, secure storage. They can easily be moved by forklift, which significantly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



BUILD-UP PROTECTION

WITH BUILT-IN TECHNOLOGY



PROTECTING YOUR CROPS FROM THE INSIDE OUT.

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.

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[®]

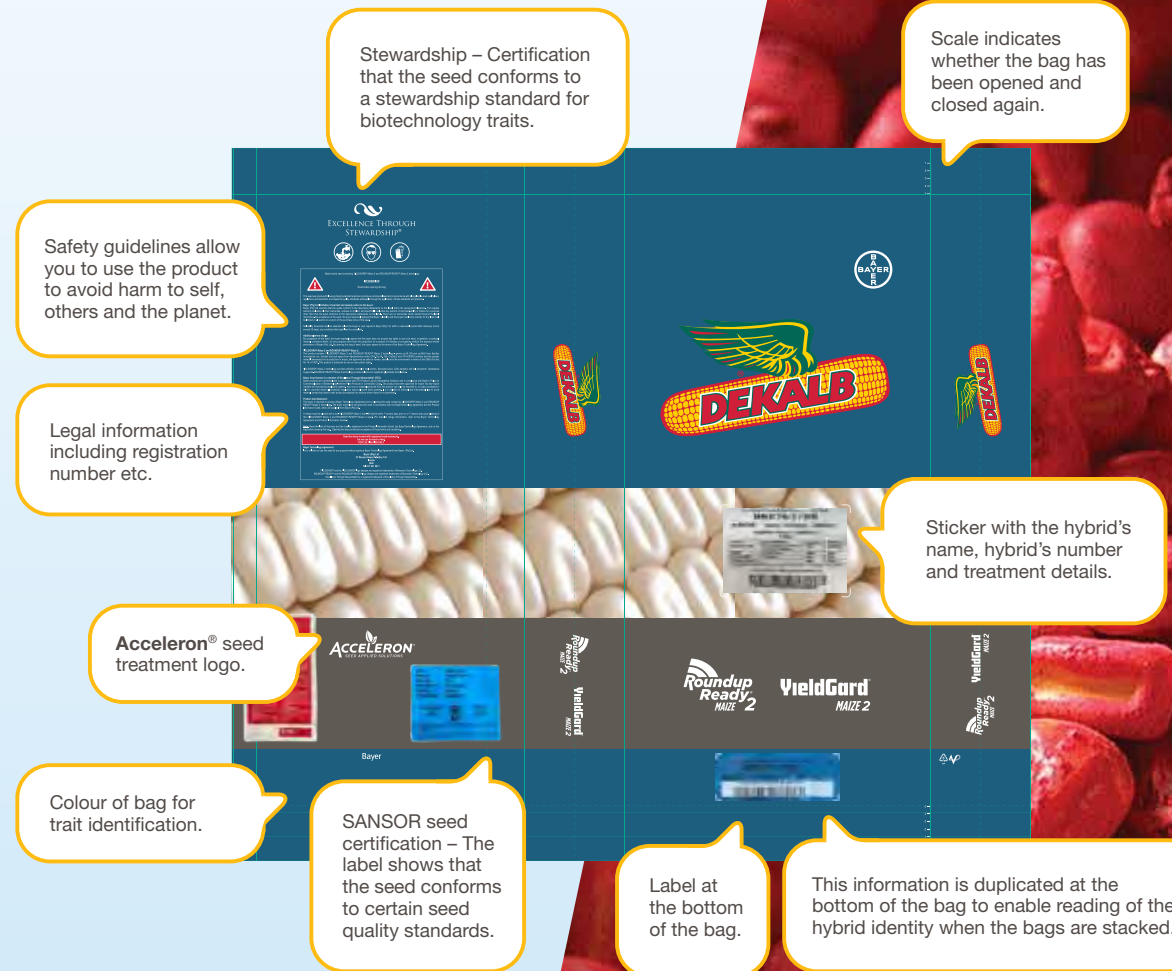
/// WHITE MAIZE

- Orange
- Conventional
- Acceleron[®]

/// YELLOW MAIZE

- Orange
- Conventional
- Acceleron[®]

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



HYBRID CHOICE AND POSITIONING

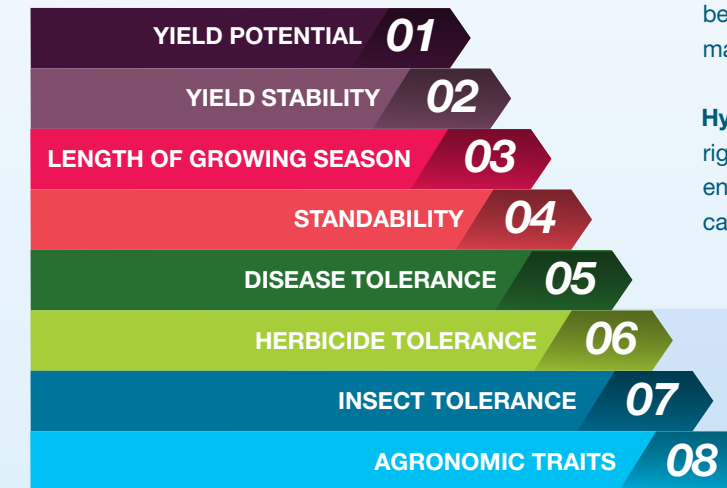
As your trusted on-farm partner, we are dedicated to ensuring that you maximise profit and optimise productivity. We not only support you with innovative technologies, excellent hybrids with a competitive disease protection portfolio, seed treatments and a wide crop protection portfolio but also offer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

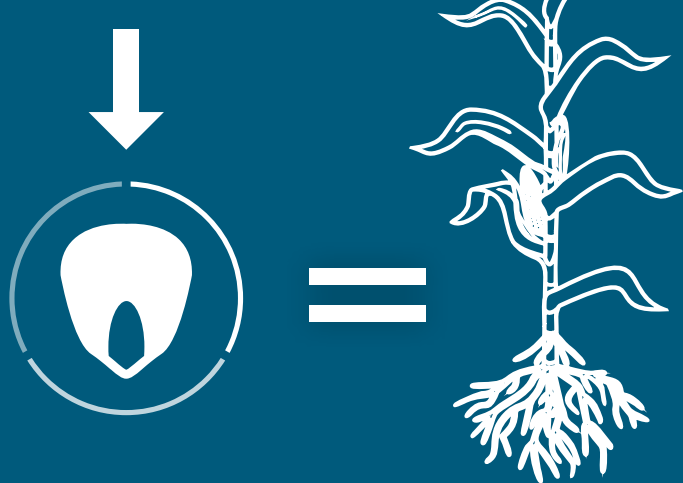
Hybrid placement or positioning is about getting the right hybrid on the right field to reduce on-farm risks and ensure that all possible challenges are evaluated and catered for before planting.



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 **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.



EVERY KERNEL COUNTS

LET'S HELP YOU PLANT THE #DEKALBDIFFERENCE!

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

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.

Discover the **#DEKALBdifference**.



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

HYBRIDS FOR BIG AND SMALL

Choose DEKALB® seed quantity and options in conventional or stacked gene traits:

Choose from the following DEKALB® seed technologies:

Stacked Traits – BLUE

Roundup® Ready MAIZE 2 – BURGUNDY

Conventional – ORANGE



30 000
KERNELS

5 kg

2 kg

Both yellow and white hybrid seeds are available in pack sizes of:
2 kg, 5 kg, 30 000 and 80 000 kernels.

One of the most well-know hybrids planted by our small-scale farmers is **DKC73-74BR GEN**. This hybrid is recommended for the eastern production areas and shows stable performance under variable conditions.



Keep a look out for this icon that signals the hybrids that are suitable for small-scale farming.

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

DKC74-20
DKC74-26R
DKC74-74BR

DKC76-71
DKC76-73R
DKC76-77BR

DKC78-45BR GEN

DKC80-40BR GEN



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

HYBRID LIST



MAIZE HYBRIDS 2023



WHITE

  DKC75-65BR

  DKC76-77BR  DKC76-75B

 DKC76-73R  DKC76-71

 DKC77-77BR

 DKC78-45BR GEN

YELLOW

 DKC68-50

 DKC71-46BR

 DKC72-76BR  DKC72-74R

 DKC72-72B  DKC72-70

  DKC73-74BR GEN  DKC73-70B GEN

 DKC73-76R  DKC73-72

  DKC74-74BR  DKC74-26R

 DKC74-20

  DKC77-26BR

 DKC78-78BR

 DKC80-40BR GEN

IRRIGATION

 DKC59-32BR

 DKC60-76BR  DKC60-74R

 DKC61-60BR

 DKC62-35R  DKC62-37BR

  DKC64-50B  DKC64-52R

 DKC64-54BR

 DKC65-52BR

 DKC65-60BR  DKC65-72

 DKC66-66BR

Please take note of the following icons on the hybrid pages:

 Hybrids appropriate for small-scale farming.

 Spider graphs available for the relevant hybrid.

MAIZE HYBRID CHOICE AND PLACEMENT

The following aspects will influence hybrid choice and placement:

SOIL DYNAMICS

- /// Poorly drained soils – choose a hybrid with good stalk strength.
- /// Sandy dryland – look for higher prolificacy.
- /// Texture (clay percentage).
- /// Soil structure.
- /// Chemical analysis.

PLANT POPULATION

- /// Look at hybrid recommendations as each hybrid reacts differently to planting populations.
- /// Adjust planting density according to the available moisture, the soil dynamics 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.

MAIZE MONOCULTURE SCENARIO

- /// 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

- /// Planting the correct plant population per hybrid in a specific environment is important to achieve the highest profit per hectare.
- /// Plant population recommendations are not a fixed number and should be interpreted to suit the needs of the specific field.
- /// 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 **Bayer** representative in your area.

Scan this QR-code to read more on plant population:



SPIDER GRAPHS

Important for the interpretation of the spider graphs:

- /// Hybrids are ranked from 1 to 4.
- /// 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 spider graphs is to place the hybrids on the farm to address different and specific needs.

Disease tolerance description codes

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.

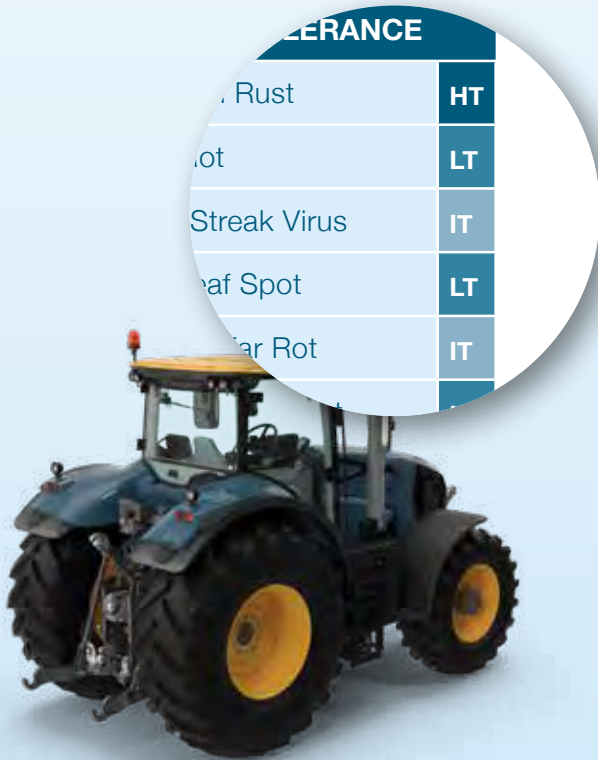
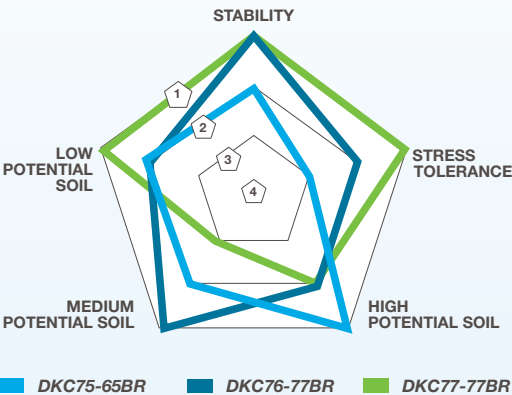
IT – Intermediate Tolerance:

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.

EXAMPLE OF A SPIDER GRAPH SOIL DYNAMICS





WHITE MAIZE HYBRIDS



POSITIONING IN DRYLAND EAST & WEST

There are many benefits to reap from choosing a white 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.

● WHITE

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

Please refer to pg 11 for more details about the different colour coding. The colour coding relates to the combinations of technology that are available for the different hybrids.





HYBRIDS

DRYLAND WEST

DKC75 SERIES

Hybrids in this series:

DKC75-65BR

BENEFITS

- // High yield potential
- // Excellent emergence

ATTRIBUTES

- // Excellent yield stability
- // Average tillering
- // Excellent emergence
- // No silk balling
- // Average grain quality
- // Few tassel ears
- // Fair tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	NOT SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70-80 DAYS
Estimated relative maturity:	117-145 DAYS

PLANT ATTRIBUTES

Plant height:	200 – 230 CM		
Ear height:	105 – 130 CM		
Ears East:	N/A	Ears West:	1.9

PLANT POPULATION

High soil potential and water table:	37 000
Medium soil potential:	30 000
Low soil potential:	22 000

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	LT
Maize Streak Virus	IT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	LT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

DRYLAND EAST & WEST

DKC76 SERIES

Hybrids in this series:

DKC76-77BR

DKC76-75B

DKC76-73R

DKC76-71

BENEFITS

- // Prolific
- // High yield potential
- // Excellent standability

ATTRIBUTES

- // Excellent yield stability
- // Average tillering
- // Excellent emergence
- // Fair silk balling
- // Excellent grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	SUPPLEMENTARY

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	117 – 145 DAYS

PLANT ATTRIBUTES

Plant height:	210 – 280 CM		
Ear height:	95 – 130 CM		
Ears East:	1.4	Ears West:	2

PLANT POPULATION

High soil potential and water table:	35 000
Medium soil potential:	28 000
Low soil potential:	20 000

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	IT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

DRYLAND WEST

DKC77 SERIES

Hybrids in this series:

DKC77-77BR

BENEFITS

- // Highly prolific
- // Strong seedling
- // High yield potential
- // Good disease tolerance
- // Very good heat and drought tolerance

ATTRIBUTES

- // Excellent yield stability
- // Average tillering
- // Excellent emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Fair tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	NOT SUITED

SPECIFIC ATTRIBUTES

Days to 50% tassel:	68 – 78 DAYS
Estimated relative maturity:	117 – 145 DAYS

PLANT ATTRIBUTES

Plant height:		200 – 230 CM	
Ear height:		90 – 110 CM	
Ears East:	N/A	Ears West:	2

PLANT POPULATION

High soil potential and water table:	35 000
Medium soil potential:	28 000
Low soil potential:	20 000

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	LT
Maize Streak Virus	IT
Grey Leaf Spot	LT
Diplodia Ear Rot	IT
Gibberella Ear Rot	LT
Northern Leaf Blight	HT
Foliar Disease	HT

BENEFITS

- // Prolific hybrid
- // Very high yield potential
- // Quick dry down

ATTRIBUTES

- // Excellent yield stability
- // Average tillering
- // Average emergence
- // No silk balling
- // Excellent grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald



HYBRIDS

DRYLAND EAST & WEST

DKC78 SERIES

Hybrids in this series:

DKC78-45BR GEN

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	SUPPLEMENTARY

SPECIFIC ATTRIBUTES

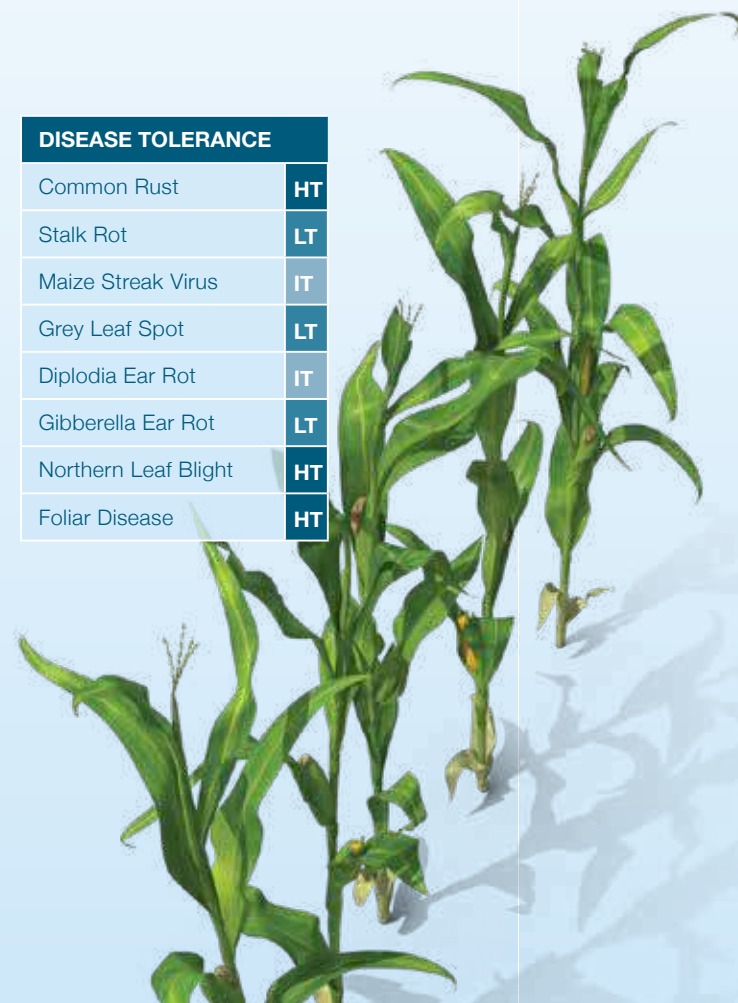
Days to 50% tassel:	68 – 78 DAYS
Estimated relative maturity:	120 – 148 DAYS

PLANT ATTRIBUTES

Plant height:		210 – 240 CM	
Ear height:		95 – 130 CM	
Ears East:	1.5	Ears West:	2.1

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT

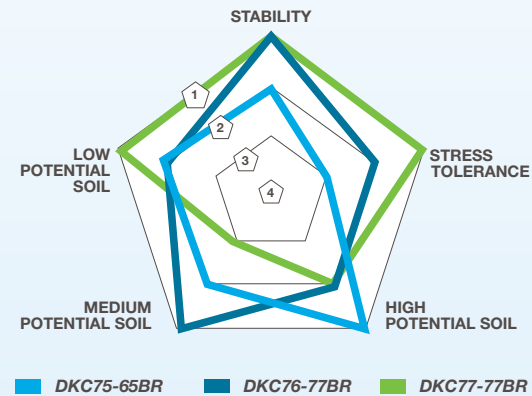


HYBRID PERFORMANCE

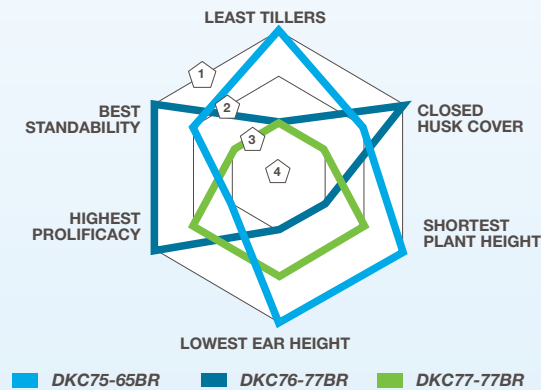
HYBRID COMPARISONS

DKC75-65BR DKC76-77BR DKC77-77BR

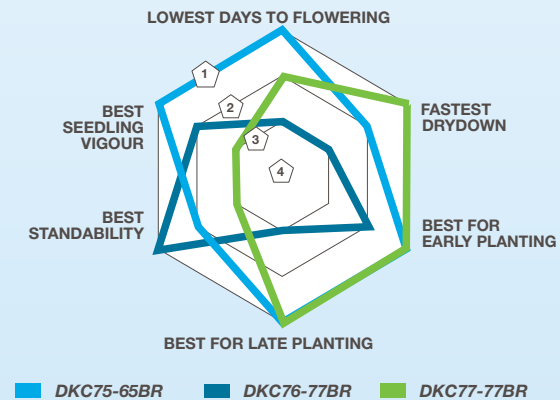
SOIL DYNAMICS



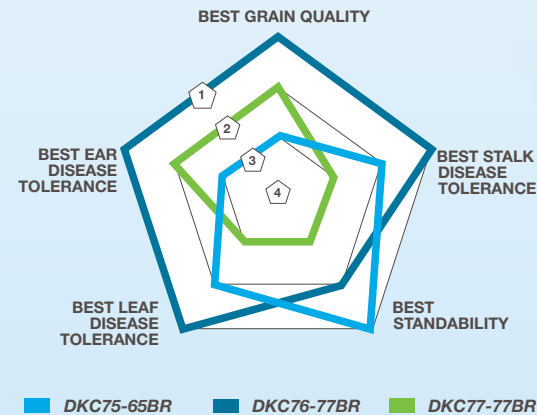
PLANT POPULATION



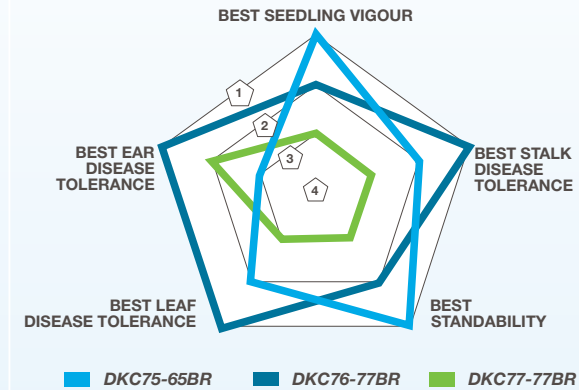
HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



NO TILL



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:

- 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 timing & 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 pollination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.

Maize monoculture scenario:

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



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.

● YELLOW

● DKC68-50

● DKC71-46BR

● DKC72-76BR ● DKC72-74R

● DKC72-72B ● DKC72-70

● DKC73-74BR GEN ● DKC73-70B GEN

● DKC73-76R ● DKC73-72

● DKC74-74BR ● DKC74-26R

● DKC74-20

NEW ● DKC77-26BR

● DKC78-78BR

● DKC80-40BR GEN

Please refer to pg 11 for more details about the different colour coding. The colour coding relates to the combinations of technology that are available for the different hybrids.





HYBRIDS

DRYLAND EAST & WEST

DKC68 SERIES

Hybrids in this series:

DKC68-50

BENEFITS

- // Quick dry down
- // Low ear placement

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	NOT SUITABLE

SPECIFIC ATTRIBUTES

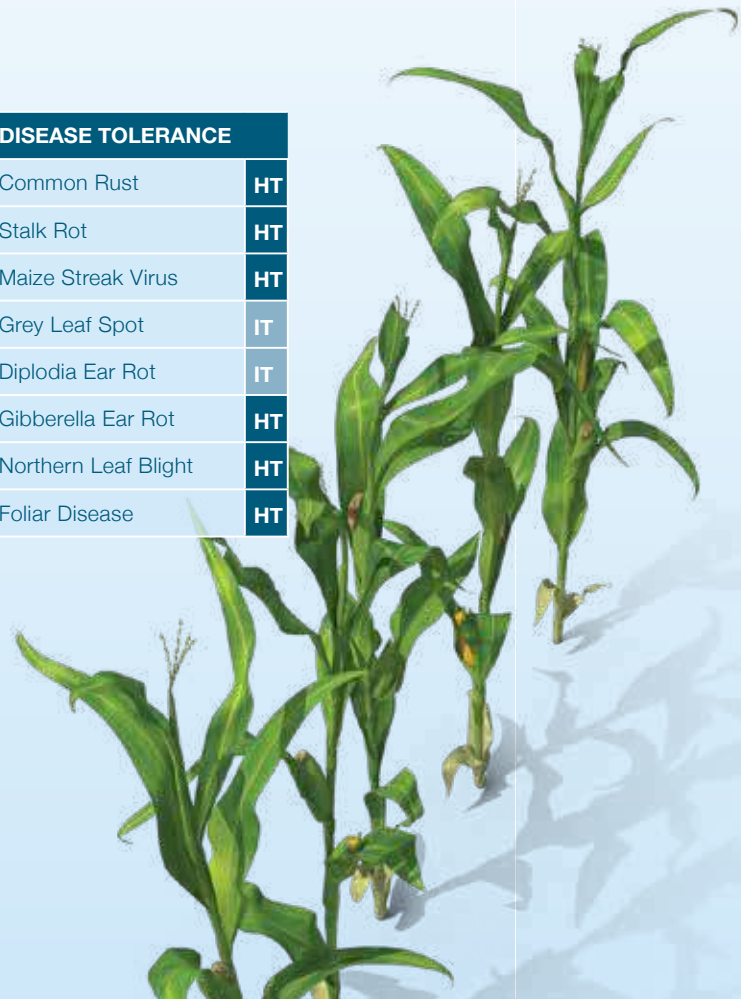
Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	118 – 128 DAYS

PLANT ATTRIBUTES

Plant height:	230 – 300 CM		
Ear height:	105 – 125 CM		
Ears East:	1.2	Ears West:	1.6

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	HT
Grey Leaf Spot	IT
Diplodia Ear Rot	IT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

DRYLAND EAST & WEST

DKC71 SERIES

Hybrids in this series:

DKC71-46BR

BENEFITS

- // Excellent genetics
- // Quick dry down
- // Low ear placement

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM TO HIGH
Irrigation:	NOT SUITED

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	120 – 135 DAYS

PLANT ATTRIBUTES

Plant height:	210 – 240 CM		
Ear height:	105 – 130 CM		
Ears East:	1.2	Ears West:	1.5

PLANT POPULATION

High soil potential and water table:	60 000
Medium soil potential:	50 000
Low soil potential:	N/A

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	HT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

DRYLAND EAST & WEST

DKC72 SERIES

Hybrids in this series:

DKC72-76BR

DKC72-74R

DKC72-72B

DKC72-70

BENEFITS

- // Quick dry down
- // Low ear placement

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population: **MEDIUM**Irrigation: **NOT SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **70 – 80 DAYS**Estimated relative maturity: **120 – 135 DAYS**

PLANT ATTRIBUTES

Plant height: **230 – 300 CM**Ear height: **105 – 125 CM**Ears East: **1.2** Ears West: **1.7**

PLANT POPULATION

High soil potential and water table: **40 000**Medium soil potential: **30 000**Low soil potential: **20 000**

DISEASE TOLERANCE

Common Rust **HT**Stalk Rot **HT**Maize Streak Virus **IT**Grey Leaf Spot **LT**Diplodia Ear Rot **HT**Gibberella Ear Rot **HT**Northern Leaf Blight **HT**Foliar Disease **HT**

HYBRIDS

DRYLAND EAST

DKC73 SERIES

Hybrids in this series:

DKC73-74BR GEN

DKC73-70B GEN

DKC73-76R

DKC73-72

BENEFITS

- // Short plant with good standability
- // Very high yield potential
- // Good tolerance against plant diseases

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Excellent emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Fair tip coverage
- // Affected by sun scald

MANAGEMENT

Plant population: **MEDIUM TO HIGH**Irrigation: **SUPPLEMENTARY**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **70 – 80 DAYS**Estimated relative maturity: **122 – 138 DAYS**

PLANT ATTRIBUTES

Plant height: **190 – 220 CM**Ear height: **90 – 115 CM**Ears East: **1** Ears West: **N/A**

PLANT POPULATION

High soil potential and water table: **60 000**Medium soil potential: **45 000**Low soil potential: **N/A**

DISEASE TOLERANCE

Common Rust **HT**Stalk Rot **HT**Maize Streak Virus **HT**Grey Leaf Spot **IT**Diplodia Ear Rot **HT**Gibberella Ear Rot **HT**Northern Leaf Blight **HT**Foliar Disease **HT**



HYBRIDS

DRYLAND EAST & WEST

DKC74 SERIES

Hybrids in this series:

DKC74-74BR

DKC74-26R

DKC74-20

BENEFITS

- // Good grain quality
- // Good standability
- // Strongly prolific

ATTRIBUTES

- // Good yield stability
- // Many tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM TO LOW
Irrigation:	SUPPLEMENTARY

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	120 – 135 DAYS

PLANT ATTRIBUTES

Plant height:	200 – 230 CM		
Ear height:	85 – 105 CM		
Ears East:	1.2	Ears West:	1.6

PLANT POPULATION

High soil potential and water table:	60 000
Medium soil potential:	45 000
Low soil potential:	35 000

DISEASE TOLERANCE

Common Rust	IT
Stalk Rot	IT
Maize Streak Virus	HT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	LT

BENEFITS

- // Medium maturing hybrid: 120 – 135 days to relative maturity
- // Excellent top-end yield.
- // High tolerance against ear diseases
- // High tolerance against foliar diseases.
- // Closed tip with excellent grain quality
- // No sun scald occurs on this new hybrid

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	SUPPLEMENTARY

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	120 – 135 DAYS

PLANT ATTRIBUTES

Plant height:	190 – 220 CM		
Ear height:	90 – 115 CM		
Ears East:	1	Ears West:	N/A

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	N/A
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

NEW! DRYLAND EAST**DKC77-26BR**



HYBRIDS

DRYLAND EAST & WEST

DKC78 SERIES

Hybrids in this series:

DKC78-78BR

BENEFITS

- // Excellent yield potential
- // Low ear placement

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM TO LOW
Irrigation:	NOT SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	120 – 135 DAYS

PLANT ATTRIBUTES

Plant height:	200 – 230 CM	
Ear height:	85 – 105 CM	
Ears East:	1.2	Ears West: 1.6

PLANT POPULATION

	COLD EAST	TEMPERATE EAST
High soil potential and water table:	55 000	55 000
Medium soil potential:	48 000	45 000
Low soil potential:	40 000	35 000

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	IT
Diplodia Ear Rot	HT
Gibberella Ear Rot	IT
Northern Leaf Blight	HT
Foliar Disease	HT



HYBRIDS

DRYLAND EAST & WEST

DKC80 SERIES

Hybrids in this series:

DKC80-40BR GEN

BENEFITS

- // Excellent prolificacy
- // Excellent standability
- // Good disease tolerance

ATTRIBUTES

- // Very good yield stability
- // Average tillers
- // Excellent emergence
- // Fair silk balling
- // Excellent grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population:	MEDIUM
Irrigation:	SUPPLEMENTARY

SPECIFIC ATTRIBUTES

Days to 50% tassel:	70 – 80 DAYS
Estimated relative maturity:	120 – 135 DAYS

PLANT ATTRIBUTES

Plant height:	230 – 250 CM	
Ear height:	120 – 130 CM	
Ears East:	1.2	Ears West: 1.7

DISEASE TOLERANCE

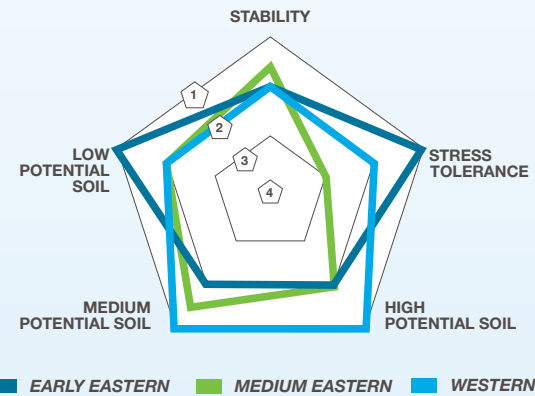
Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	IT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT

HYBRID PERFORMANCE

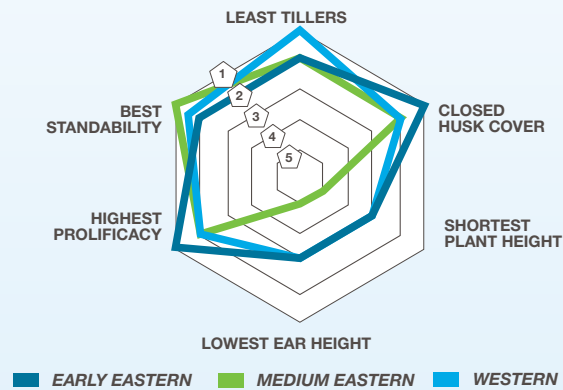
HYBRID COMPARISONS

DKC72-76BR

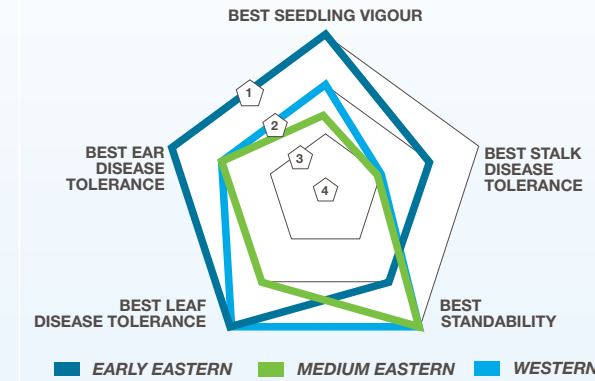
SOIL DYNAMICS



PLANT POPULATION



NO TILL



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:

- 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 timing & maturity:

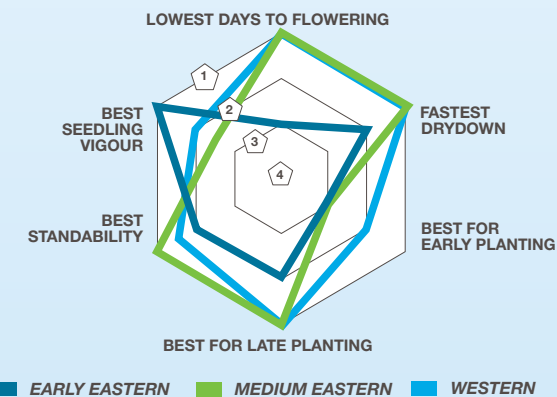
- Planting the right hybrid at the right time is important.
- Try to miss the “frost window” in March/April.
- Spread pollination risk by extending the pollination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.

Maize monoculture scenario:

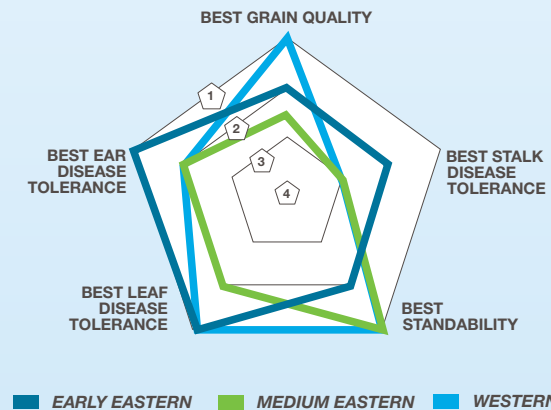
- Monoculture leads to the build-up of pathogens over time.
- Disease tolerance is important when choosing hybrids for maize on maize.
- Knowing your prevalent diseases on the farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.



HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO

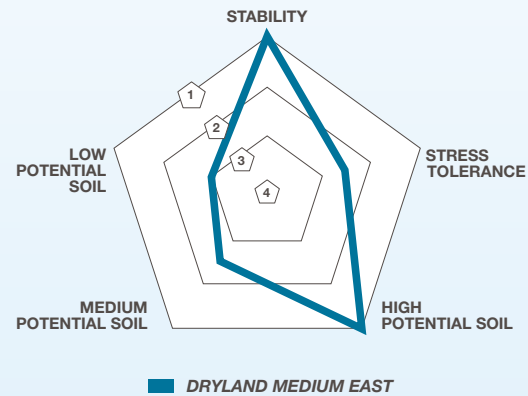


HYBRID PERFORMANCE

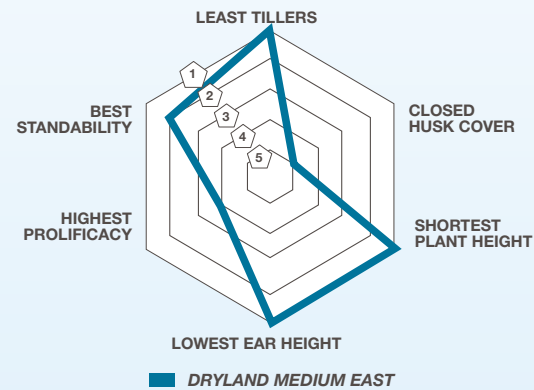
HYBRID COMPARISONS

DKC73-74BR GEN

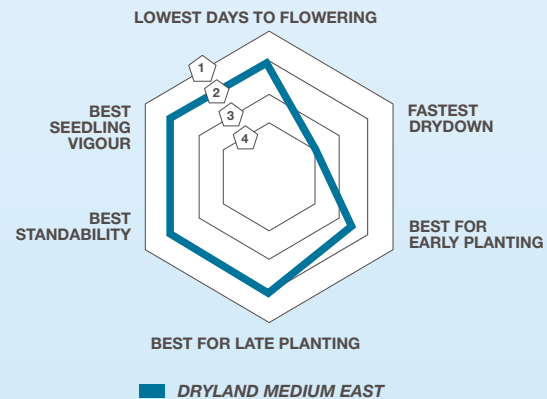
SOIL DYNAMICS



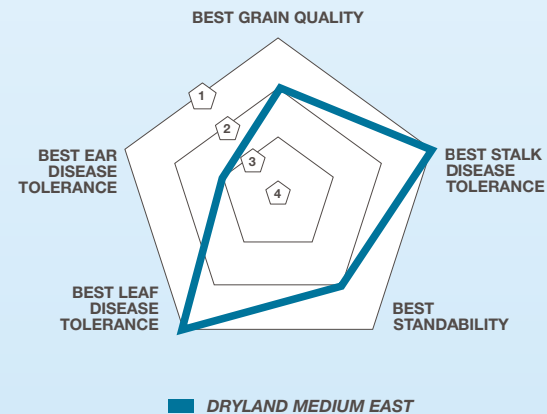
PLANT POPULATION



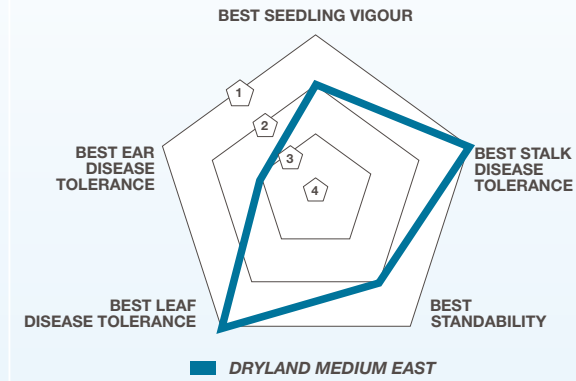
HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



NO TILL



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Harvest timing & maturity:

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

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- Disease tolerance is important when choosing hybrids for maize on maize.
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- Grain quality issues and lodging can have huge impacts on profitability.

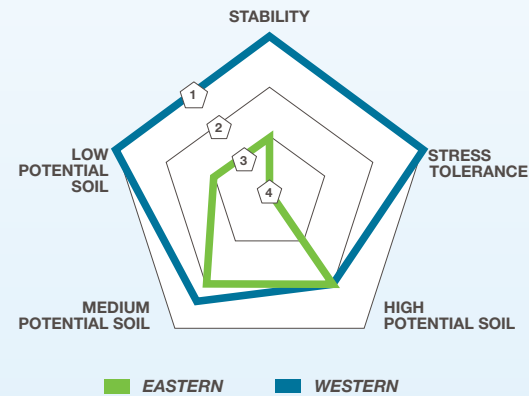


HYBRID PERFORMANCE

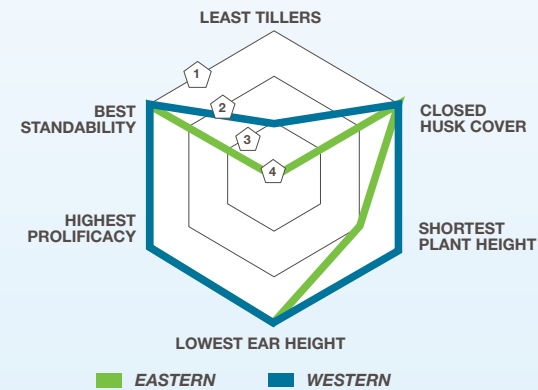
HYBRID COMPARISONS

DKC74-74BR

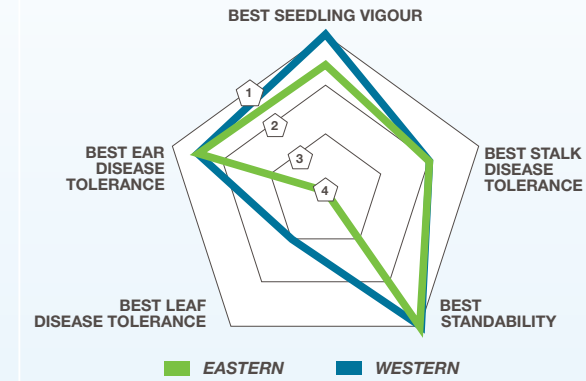
SOIL DYNAMICS



PLANT POPULATION



NO TILL



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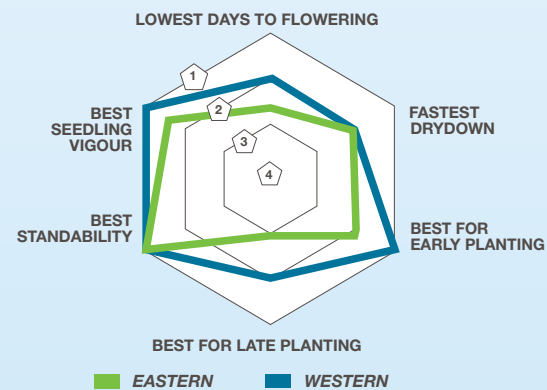
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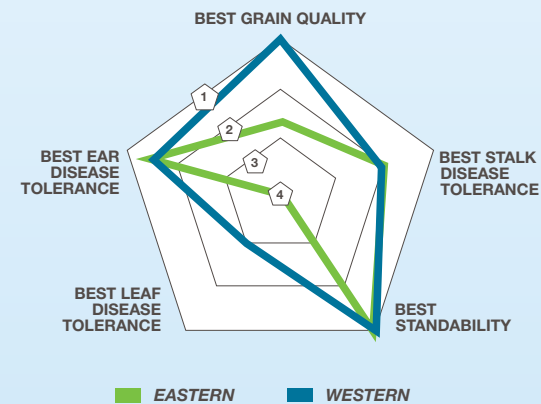
Harvest timing & maturity:

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HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



Maize monoculture scenario:

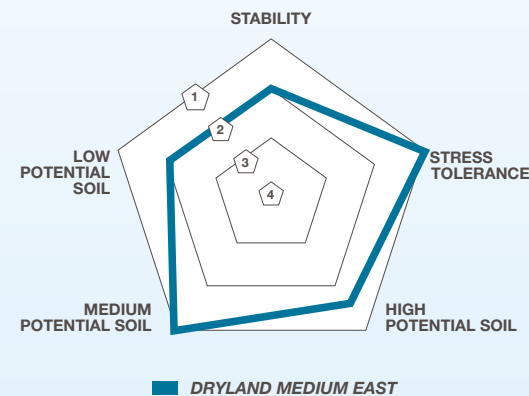
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HYBRID PERFORMANCE

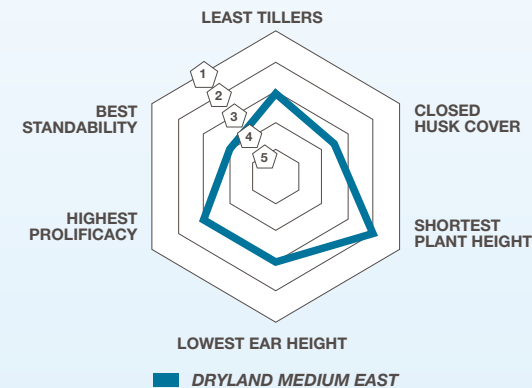
HYBRID COMPARISONS

DKC77-26BR

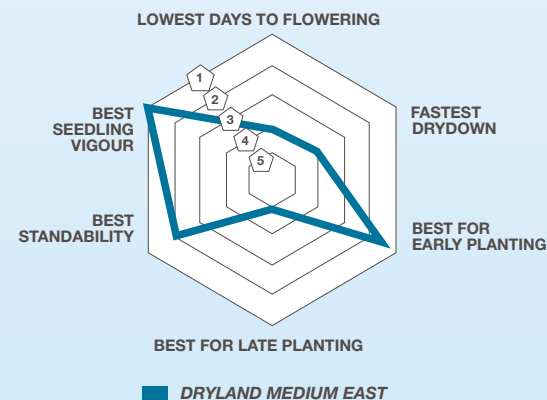
SOIL DYNAMICS



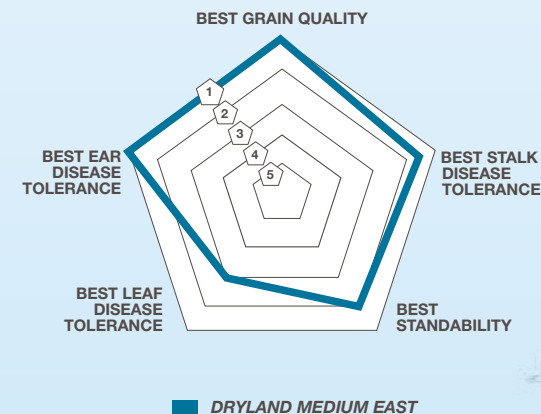
PLANT POPULATION



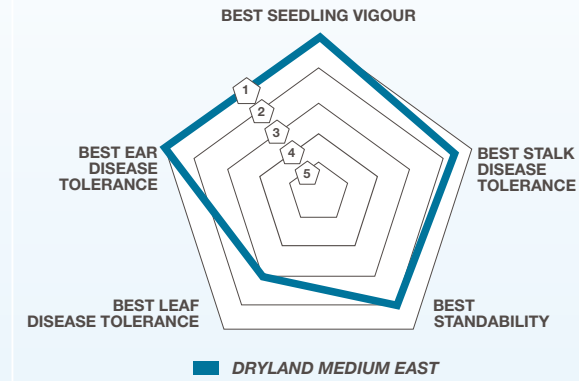
HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



NO TILL



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Maize monoculture scenario:

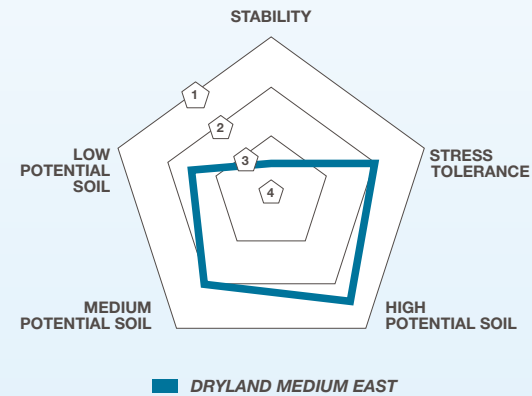
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- Knowing your prevalent diseases on the farm is important for hybrid placement.
- Grain quality issues and lodging can have huge impacts on profitability.

HYBRID PERFORMANCE

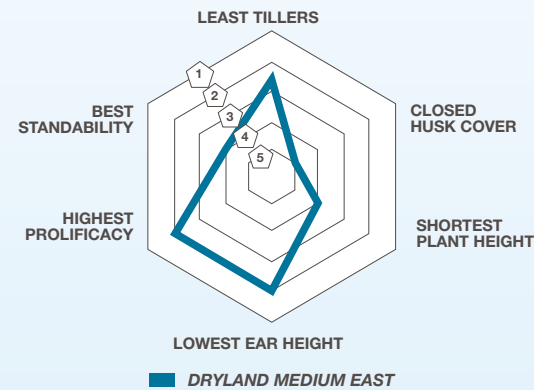
HYBRID COMPARISONS

DKC78-78BR

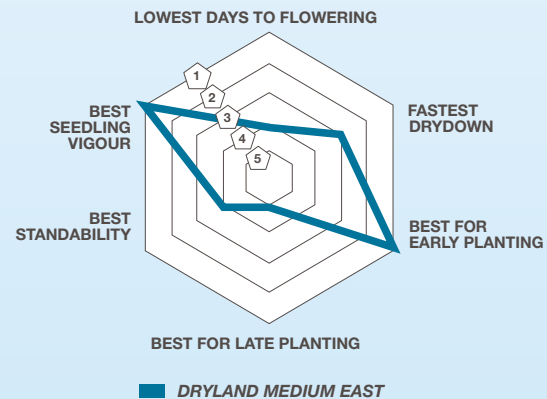
SOIL DYNAMICS



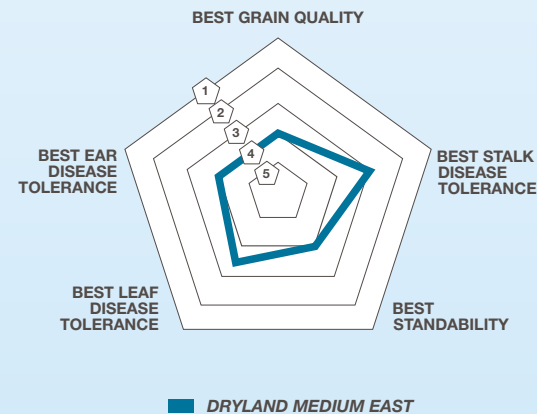
PLANT POPULATION



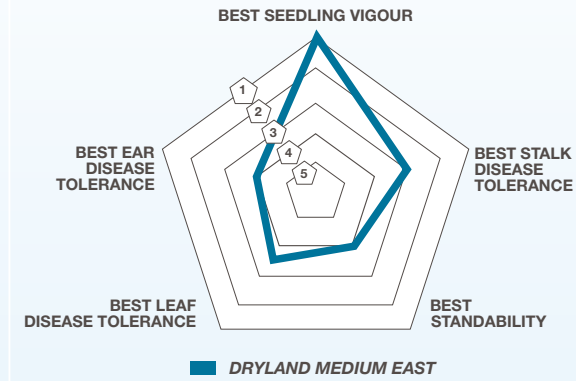
HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



NO TILL



Soil dynamics:

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- Harvest maps 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.
- High populations with tall plants can increase the risk of lodging.
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- Standability can be less of a problem at lower populations.

Harvest timing & 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 pollination period through hybrid positioning.
- Look at hybrids with good seedling vigour when planting early in colder soil conditions.

Maize monoculture scenario:

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





IRRIGATION MAIZE HYBRIDS



● IRRIGATION

NEW DKC59-32BR

● DKC60-76BR ● DKC60-74R

● DKC61-60BR

● DKC62-35R ● DKC62-37BR

NEW DKC64-50B ● DKC64-52R

● DKC64-54BR

● DKC65-52BR

● DKC65-60BR ● DKC65-72

● DKC66-66BR

Please refer to pg 11 for more details about the different colour coding. The colour coding relates to the combinations of technology that are available for the different hybrids.

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

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 dryland hybrids.





HYBRIDS

NEW! IRRIGATION

DKC59-32BR

BENEFITS

- // Full irrigation hybrid, suited for high-density population.
- // Excellent top-end yield
- // Very fast dry down: 104 – 115 days to relative maturity.
- // This hybrid has a high tolerance against ear diseases.
- // Contains both *Bt* and **Roundup®** technologies for superb stalk borer and weed control.
- // Offers excellent standability.
- // Excellent grain quality.

MANAGEMENT

Plant population:	HIGH
Irrigation:	SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	55 – 63 DAYS
Estimated relative maturity:	104 – 115 DAYS

PLANT ATTRIBUTES

Plant height:		250 – 280 CM	
Ear height:		95 – 115 CM	
Ears East:	1	Ears West:	N/A

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	IT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	IT
Foliar Disease	IT



HYBRIDS

IRRIGATION

DKC60 SERIES
Hybrids in this series:

DKC60-76BR

DKC60-74R

BENEFITS

- // Excellent genetics with very high yield potential
- // Low ear placement
- // Yellow grain

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Very good tip coverage
- // No sun scald

MANAGEMENT

Plant population:	HIGH
Irrigation:	SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	55 – 63 DAYS
Estimated relative maturity:	104 – 115 DAYS

PLANT ATTRIBUTES

Plant height:		250 – 280 CM	
Ear height:		110 – 130 CM	
Ears East:	1	Ears West:	1

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	IT
Diplodia Ear Rot	LT
Gibberella Ear Rot	IT
Northern Leaf Blight	IT
Foliar Disease	IT

PLANT POPULATION

REGION	VAALHARTS	JACOBSDAL, MODDERRIVIER		HOPETOWN	ORANIA, LUCKHOFF	DOUGLAS VAAL	DOUGLAS ORANGE
POTENTIAL	MEDIUM	HIGH	LOW	HIGH	HIGH	HIGH	HIGH
DKC60-76BR	95 000	95 000	95 000	95 000	105 000	95 000	95 000



HYBRIDS

IRRIGATION

DKC61 SERIES

Hybrids in this series:

DKC61-60BR

BENEFITS

- // Good yield potential and excellent yield stability
- // Excellent grain quality

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Excellent grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population: **HIGH**Irrigation: **SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **55 – 63 DAYS**Estimated relative maturity: **104 – 115 DAYS**

PLANT ATTRIBUTES

Plant height: **245 – 270 CM**Ear height: **110 – 130 CM**Ears East: **1** Ears West: **1**

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	IT
Foliar Disease	IT



HYBRIDS

IRRIGATION

DKC62 SERIES

Hybrids in this series:

DKC62-35R

DKC62-37BR

BENEFITS

- // Excellent yield potential
- // Excellent grain quality

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Excellent grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population: **HIGH**Irrigation: **SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **55 – 63 DAYS**Estimated relative maturity: **104 – 115 DAYS**

PLANT ATTRIBUTES

Plant height: **245 – 270 CM**Ear height: **110 – 130 CM**Ears East: **1** Ears West: **1**

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	LT
Diplodia Ear Rot	HT
Gibberella Ear Rot	HT
Northern Leaf Blight	IT
Foliar Disease	IT



HYBRIDS

NEW! IRRIGATION

DKC64-50B

BENEFITS

- // Bt version of **DKC64-54BR**.
- // Stalk borer protection with **MON89034** technology.
- // Rotational crop – Volunteer maize can easily be controlled.
- // Can be used in full irrigation as well on dryland conditions on high potential soils in KwaZulu-Natal and Mpumalanga.
- // Faster flowering and dry down under dryland conditions.

MANAGEMENT

Plant population: **HIGH**Irrigation: **SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **55 – 63 DAYS**Estimated relative maturity: **104 – 115 DAYS**

PLANT ATTRIBUTES

Plant height: **255 – 280 CM**Ear height: **100 – 120 CM**Ears East: **1** Ears West: **1**

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	IT
Diplodia Ear Rot	LT
Gibberella Ear Rot	IT
Northern Leaf Blight	IT
Foliar Disease	HT



HYBRIDS

IRRIGATION

DKC64 SERIES

Hybrids in this series:

DKC64-54BR

DKC64-52R

BENEFITS

- // New genetics with high-yield potential
- // Low ear placement

ATTRIBUTES

- // Good yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Good grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population: **HIGH**Irrigation: **SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **55 – 63 DAYS**Estimated relative maturity: **104 – 115 DAYS**

PLANT ATTRIBUTES

Plant height: **255 – 280 CM**Ear height: **100 – 120 CM**Ears East: **1** Ears West: **1**

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	IT
Diplodia Ear Rot	LT
Gibberella Ear Rot	IT
Northern Leaf Blight	IT
Foliar Disease	HT

PLANT POPULATION

REGION	JACOBSDAL, MODDERRIVIER		ORANIA, LUCKHOFF
POTENTIAL	HIGH	LOW	HIGH
DKC64-54BR	115 000	95 000	115 000



HYBRIDS

IRRIGATION

DKC65 SERIES

Stand-alone hybrid:

DKC65-52BR

BENEFITS

- // New genetics with high-yield potential
- // Low ear placement

ATTRIBUTES

- // Good yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Excellent grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population:	HIGH
Irrigation:	SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	55 – 63 DAYS
Estimated relative maturity:	104 – 115 DAYS

PLANT ATTRIBUTES

Plant height:	250 – 280 CM		
Ear height:	95 – 115 CM		
Ears East:	1	Ears West:	1

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	LT
Grey Leaf Spot	IT
Diplodia Ear Rot	LT
Gibberella Ear Rot	IT
Northern Leaf Blight	IT
Foliar Disease	IT

PLANT POPULATION

REGION	VAALHARTS	JACOBSDAL, MODDERRIVIER	HOPETOWN	ORANIA, LUCKHOFF	DOUGLAS VAAL	UPINGTON
POTENTIAL	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
DKC65-52BR	105 000	105 000	105 000	105 000	105 000	105 000



HYBRIDS

IRRIGATION

DKC65 SERIES

Hybrids in this series:

DKC65-60BR

DKC65-72

BENEFITS

- // Exciting genetics with a high-yield potential
- // Low ear placement

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Very good grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population:	HIGH
Irrigation:	SUITABLE

SPECIFIC ATTRIBUTES

Days to 50% tassel:	55 – 63 DAYS
Estimated relative maturity:	104 – 115 DAYS

PLANT ATTRIBUTES

Plant height:	245 – 270 CM		
Ear height:	100 – 120 CM		
Ears East:	1	Ears West:	1

DISEASE TOLERANCE

Common Rust	HT
Stalk Rot	HT
Maize Streak Virus	IT
Grey Leaf Spot	IT
Diplodia Ear Rot	LT
Gibberella Ear Rot	HT
Northern Leaf Blight	HT
Foliar Disease	HT

PLANT POPULATION

REGION	JACOBSDAL, MODDERRIVIER	HOPETOWN	ORANIA, LUCKHOFF	DOUGLAS VAAL	DOUGLAS ORANGE	PRIESKA	UPINGTON
POTENTIAL	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
DKC65-60BR	95 000	95 000	95 000	95 000	95 000	95 000	95 000



HYBRIDS

IRRIGATION

DKC66 SERIES

Hybrids in this series:

DKC66-66BR

BENEFITS

- // New genetics
- // Excellent yield stability

ATTRIBUTES

- // Excellent yield stability
- // Few tillers
- // Good emergence
- // No silk balling
- // Excellent grain quality
- // Few tassel ears
- // Excellent tip coverage
- // No sun scald

MANAGEMENT

Plant population: **HIGH**

Irrigation: **SUITABLE**

SPECIFIC ATTRIBUTES

Days to 50% tassel: **55 – 63 DAYS**

Estimated relative maturity: **104 – 115 DAYS**

PLANT ATTRIBUTES

Plant height: **250 – 280 CM**

Ear height: **110 – 130 CM**

Ears East: **1** Ears West: **1**

DISEASE TOLERANCE

Common Rust **HT**

Stalk Rot **HT**

Maize Streak Virus **LT**

Grey Leaf Spot **IT**

Diplodia Ear Rot **LT**

Gibberella Ear Rot **HT**

Northern Leaf Blight **LT**

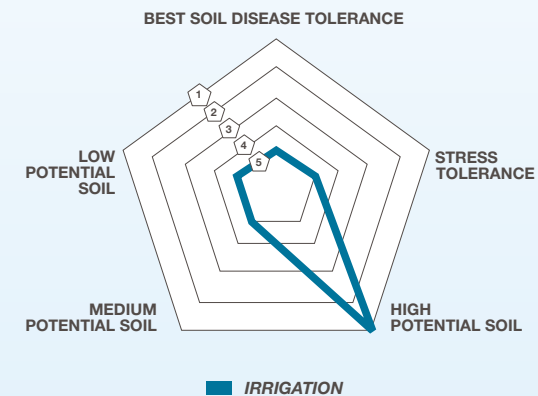
Foliar Disease **IT**

HYBRID PERFORMANCE

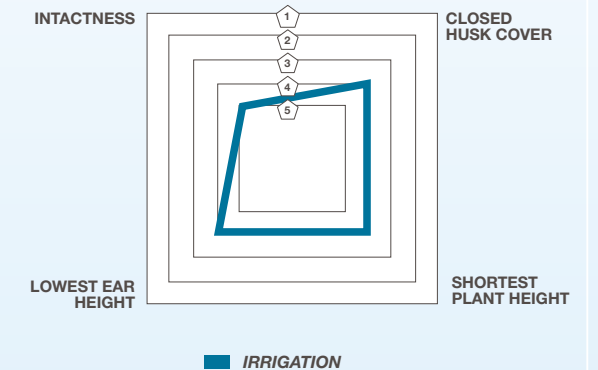
HYBRID COMPARISONS

DKC60-76BR

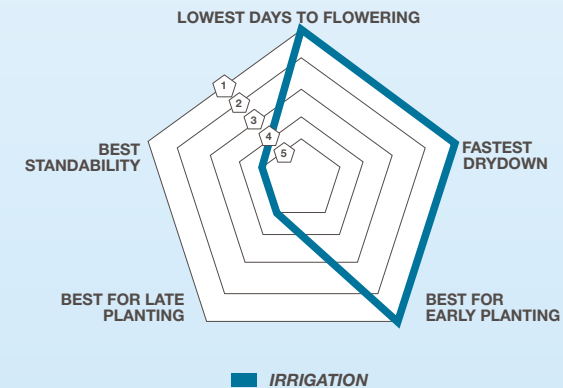
SOIL DYNAMICS



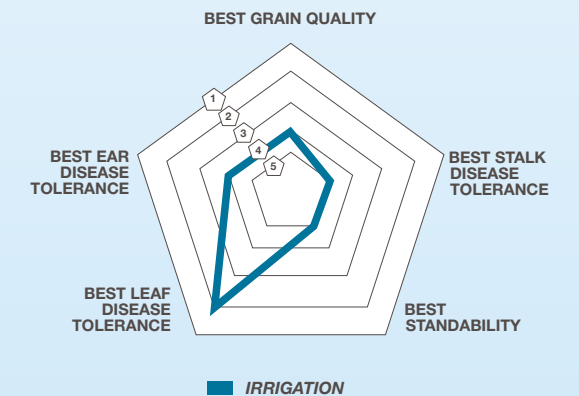
PLANT POPULATION



HARVEST TIMING & MATURITY



MAIZE MONOCULTURE SCENARIO



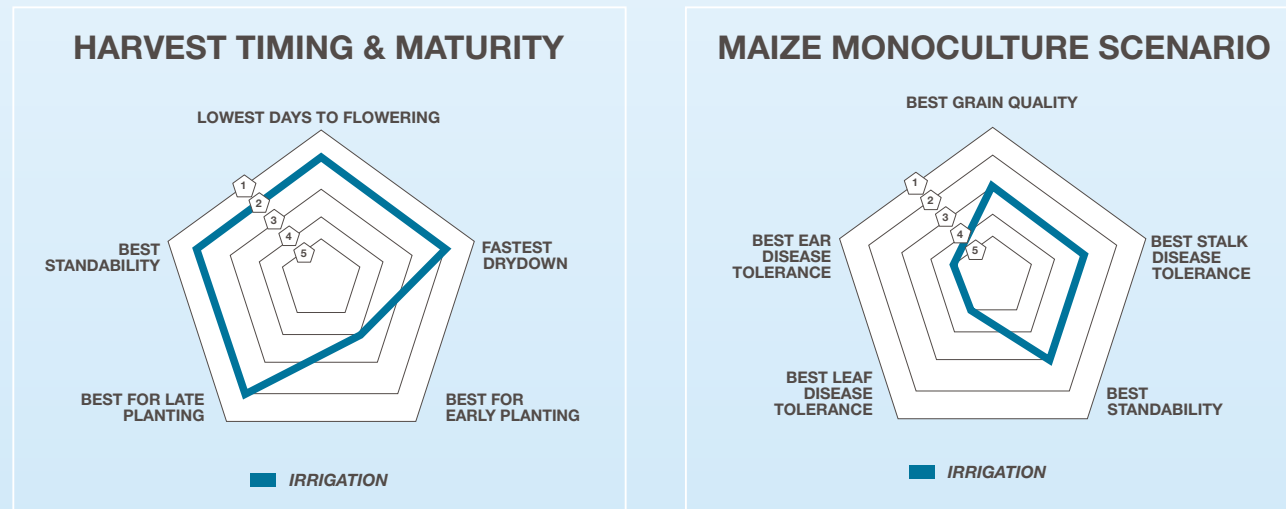
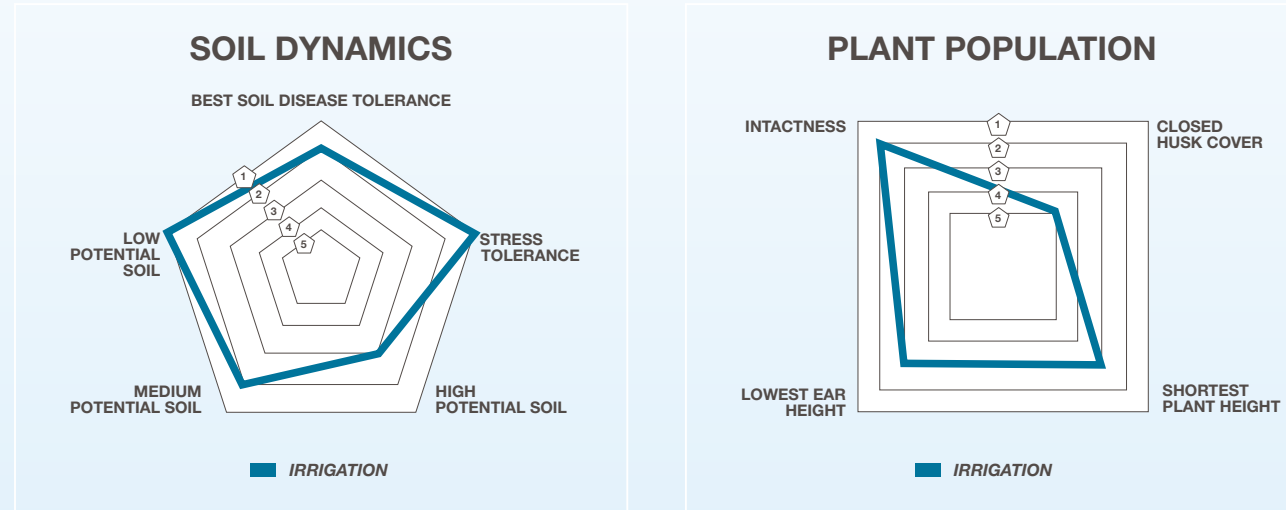
PLANT POPULATION

REGION	VAALHARTS		JACOBSDAL, MODDERRIVIER		HOPETOWN	ORANIA, LUCKHOFF	DOUGLAS VAAL	DOUGLAS ORANGE	UPINGTON
POTENTIAL	HIGH	MEDIUM	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
DKC66-66BR	105 000	95 000	95 000	105 000	105 000	105 000	105 000	105 000	105 000

HYBRID PERFORMANCE

HYBRID COMPARISONS

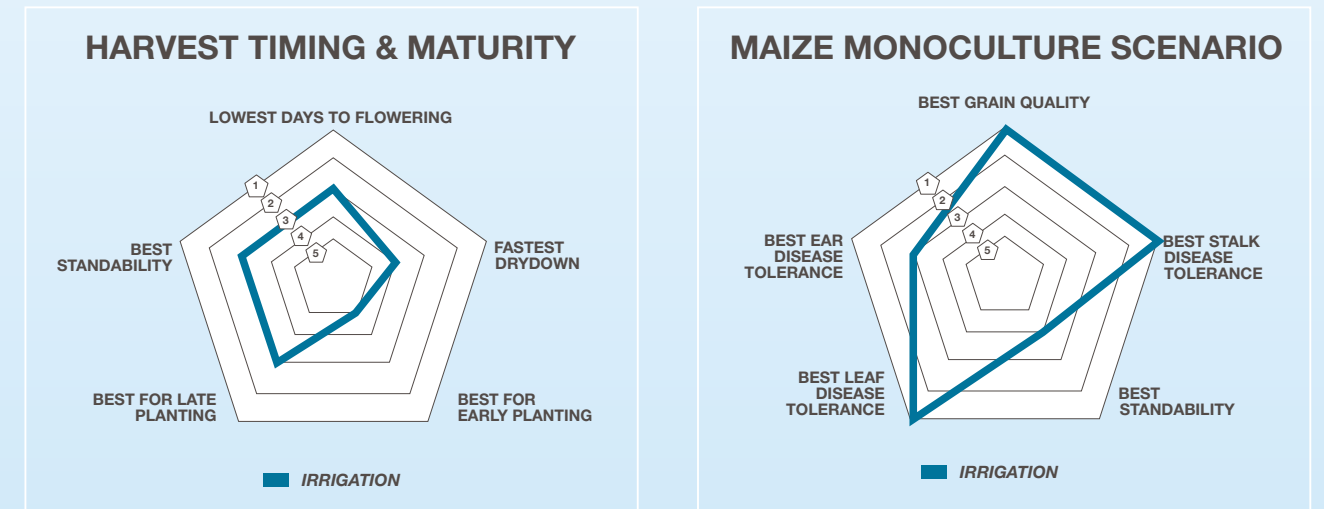
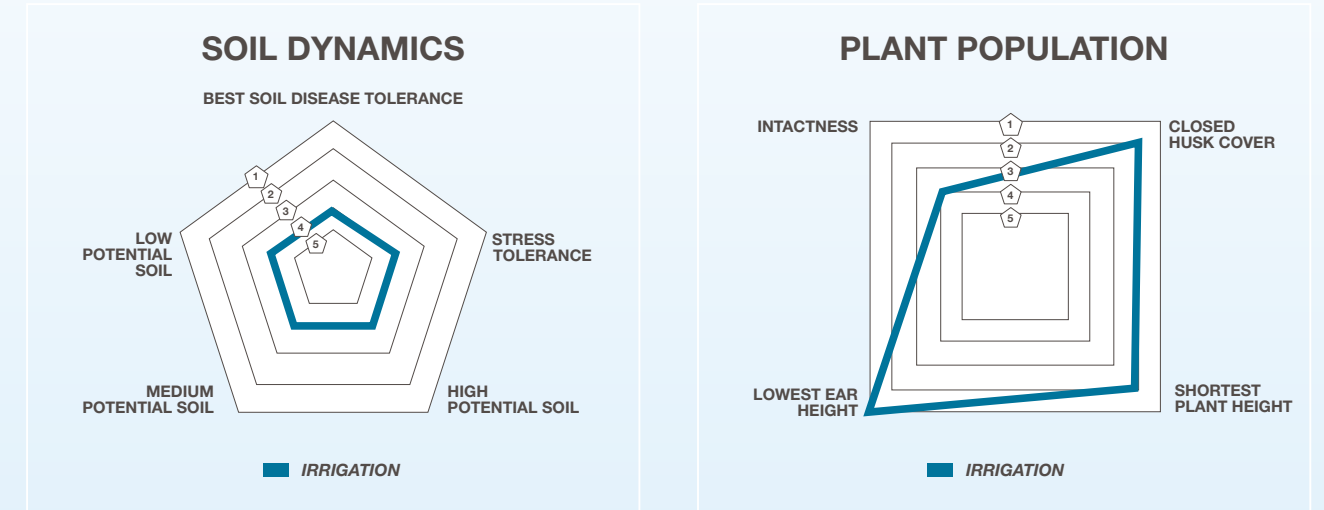
DKC64-54BR



HYBRID PERFORMANCE

HYBRID COMPARISONS

DKC65-52BR

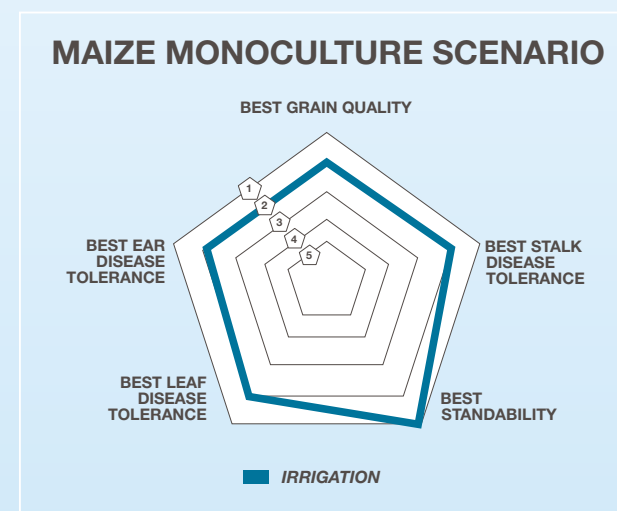
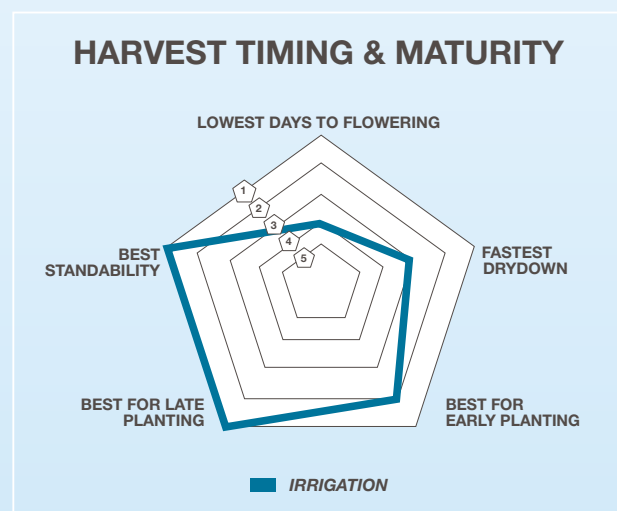
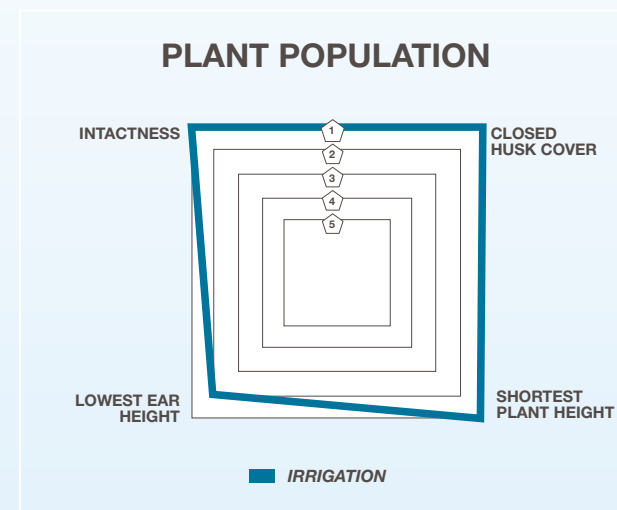
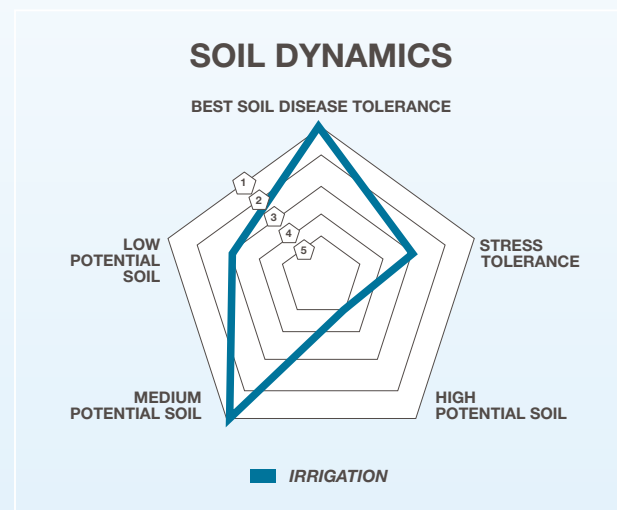




HYBRID PERFORMANCE

HYBRID COMPARISONS

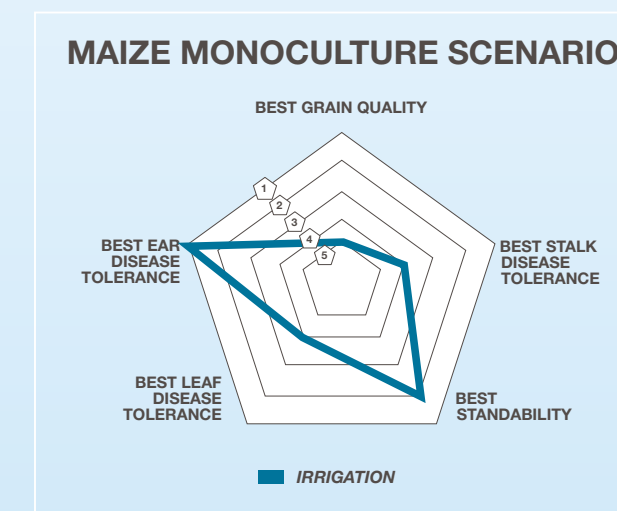
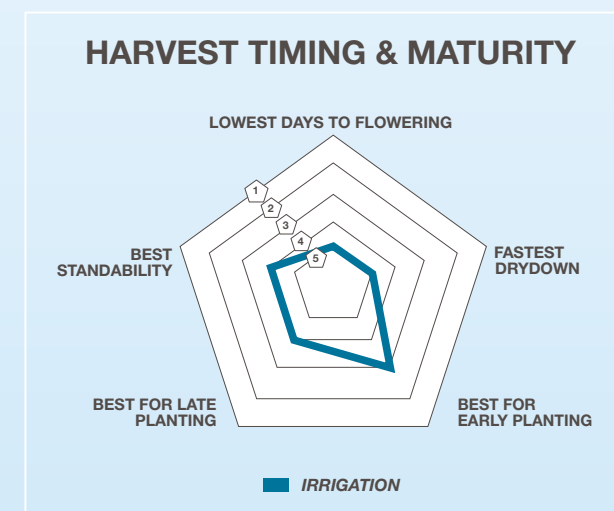
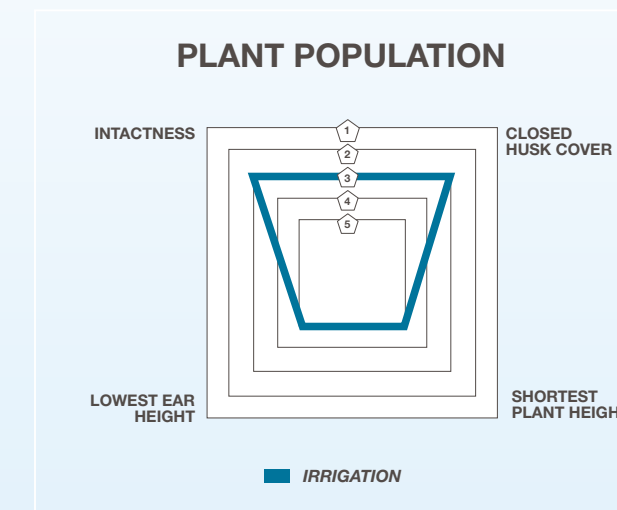
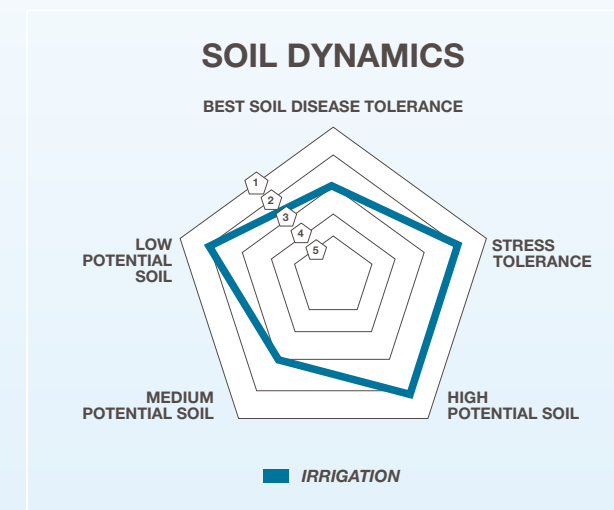
DKC65-60BR



HYBRID PERFORMANCE

HYBRID COMPARISONS

DKC66-66BR





PROTECTION



WE HAVE THE SOLUTION

ENHANCED CROP PROTECTION THAT COVERS EVERY HECTARE

In farming, nothing exists in isolation. Everything interacts with everything else. This is why we offer you more than just seeds. We believe that an integrated offer can make all the difference for you. Discover advanced hybrids for any condition, protective products inside and outside the bag, coupled with a comprehensive set of digital services.

Discover the **#BAYERbenefit**.

/// SEED TREATMENT

/// WEED CONTROL

/// DISEASE CONTROL

/// NEMATODE CONTROL

/// INSECT CONTROL



#BAYERBENEFIT

PEACE OF MIND HAS A NEW MEANING

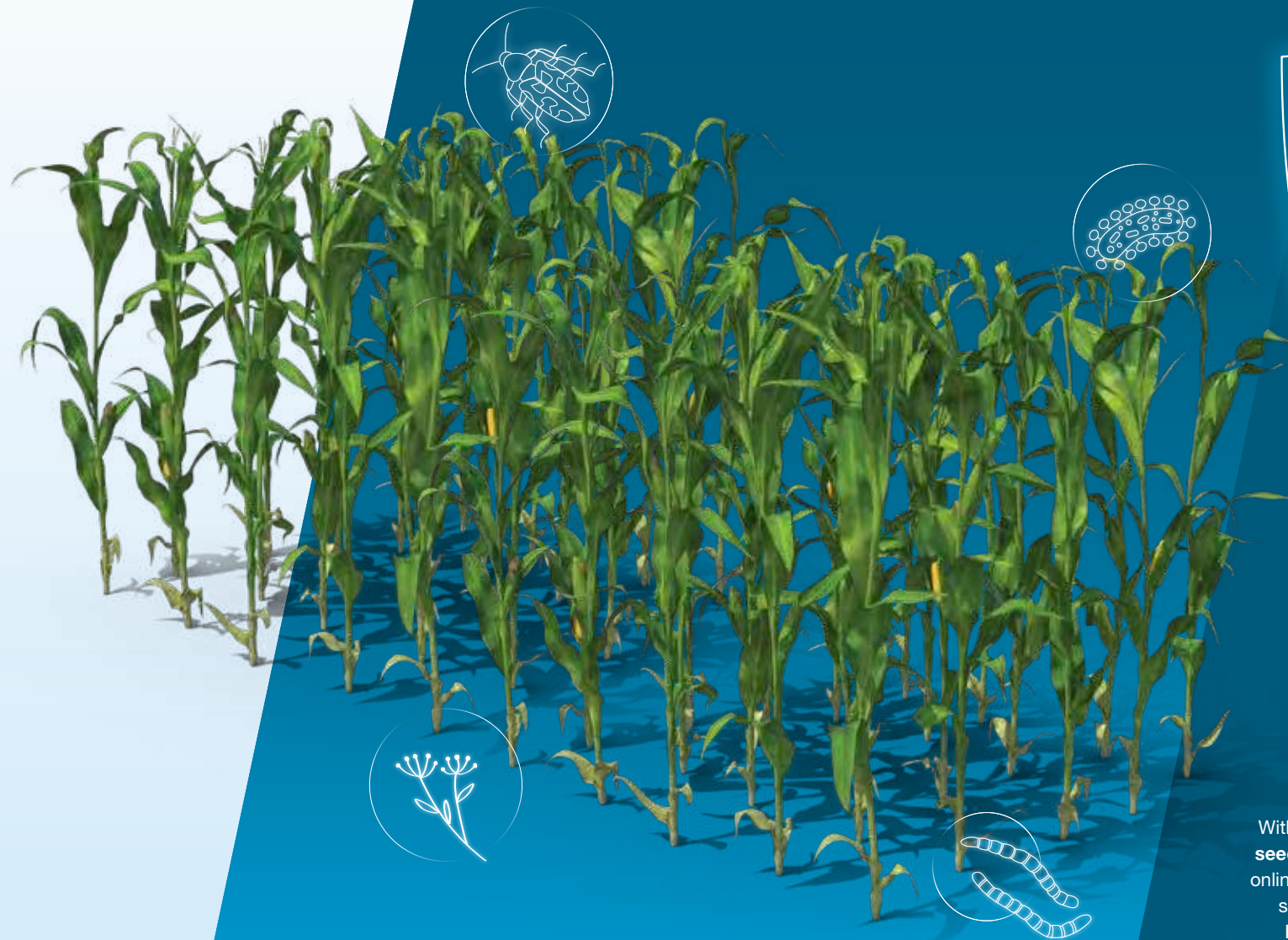
Weeds, diseases, insects and fungi deprive plants of water, sunlight, and nutrients. This can have a devastating impact on your yield and food production.

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 tank mix 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.



ACCELERON
SEED APPLIED SOLUTIONS

CLIMATE
FIELDVIEW



BULLDOCK

BULLET

decis
FORTE

Guardian

HARNESS
Xtra

LAUDIS

NATIVO

Pantera

Roundup
TURBO
HERBICIDE

Roundup
PowerMAX
HERBICIDE

VELUM
1 GR

Zantara

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.

ENHANCED PROTECTION



MAKE SOIL, PLANT AND ROOT HEALTH A PRIORITY THIS SEASON!

Nematodes, cutworms and other soil-borne insects can cause great damage to your maize fields if the correct control strategies are not put in place early. With **Bayer's Velum® 1 GR**, **Decis® Forte**, **Guardian®**, **Laudis®**, **Bullet®** and **Harness® Xtra**, you can now apply the necessary protection to your maize crops and thus get peace of mind that your farm is in good hands this season.

The OPTIMIZER programme
BUY 50 (80KKE)
DEKALB® seed bags and get:



R7,50/kg discount
on Velum® 1 GR

R12/ℓ discount
on Guardian®



AND / OR

R100/ℓ discount
on Decis® Forte



R160/ℓ discount
on Laudis®



AND / OR

R10/ℓ discount
on Bullet®



R10/ℓ discount
on Harness® Xtra





PROTECTION THAT HELPS YOUR INVESTMENT PAY OFF

IT'S MORE THAN SEED WITH THE
#DEKALBDIFFERENCE.

To end strong, you must start strong! 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.

Maximise with **Acceleron**®:

- /// maximum early-season plant establishment
- /// maximum uniformity
- /// maximum vigour

See what else the #DEKALBdifference can do for you at dekalb.co.za



NEMATICIDE



FUNGICIDE



INSECTICIDE



BIO-ENHANCER





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.

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.

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)
- /// **Gauche® FLEXX 600 FS** Reg. No. L6562. Active ingredient: Imidacloprid
- /// **Create®** Reg. No. L10658. Active ingredients: Prothioconazole (triazole)
- /// **Torque®** Reg. No. M180. Active ingredients: Lipo-chito oligosaccharide (lco sp104)



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)

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.

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.

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 negatively 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 a challenge.



VERSATILE WEED CONTROL

ENHANCED CROP PROTECTION THAT COVERS EVERY HECTARE

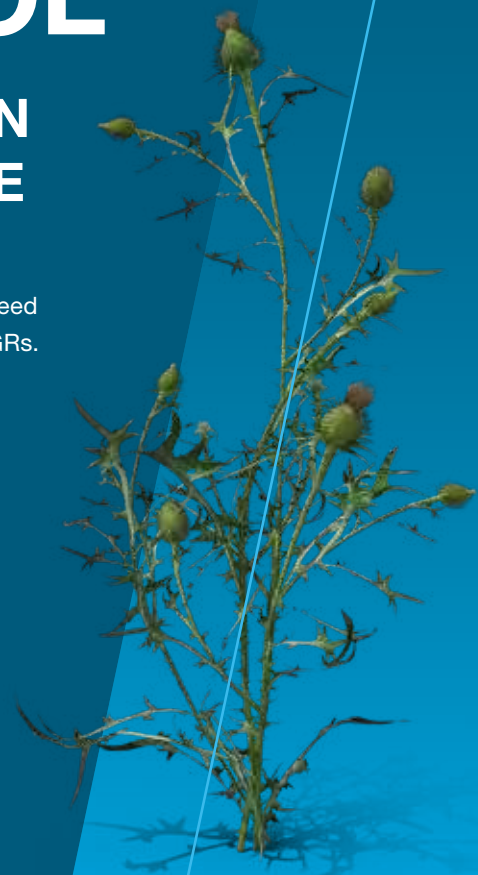
To help farmers control existing crop threats and get ahead of emerging ones, we are constantly updating our diverse product portfolio of seeds, seed treatments, traits, herbicides, fungicides, insecticides and harvest aids/PGRs.

Maximise crop production and enhance profitability.

Our products offer:

- /// proven broad-spectrum disease control
- /// pest and weed control
- /// easier crop management
- /// time saving technologies

Discover the **#BAYERbenefit**.



LAUDIS

POWERFUL WEED CONTROL IN HARMONY WITH YOUR CROP

A suspension concentrate post-emergence herbicide for the control of certain broadleaf and grass weeds in **maize** and **sugarcane**.

PRE-EMERGENCE AND POST-EMERGENCE WEED CONTROL

An emulsifiable concentrate herbicide for pre-emergence control of grass and certain broadleaved weeds in **maize** and **groundnuts** and for pre- and post-emergence control in plant and **ratoon sugarcane**.

Guardian



BULLET

A TIMED-RELEASE, PREMIX OF 3 OUTSTANDING HERBICIDES

A suspension concentrate herbicide for pre- and early post-emergence control of annual weeds in **maize**.

PRE-EMERGENCE WEED CONTROL

An emulsifiable concentrate herbicide for the pre-emergence control of grass and certain broadleaf weeds in **groundnuts**, **sugarcane**, **eucalyptus** and **pine** plantations and **industrial areas**, and pre-emergence weed control in plant and **ratoon sugarcane**, **grain sorghum**, **cotton** and **maize** after emergence of the crop.

**HARNESS
Xtra**



**Roundup
PowerMAX
HERBICIDE**

STILL THE MOST EFFECTIVE SOLUTION

A soluble concentrate non-selective post-emergence herbicide for the control of annual and perennial weeds in **Roundup Ready** **maize** and **soybean** and **Roundup Ready** **cotton** varieties.

EFFECTIVE WEED CONTROL YOU CAN COUNT ON

A water soluble non-selective post-emergence herbicide containing **Transorb™** surfactant for the control of annual and perennial weeds in **agricultural**, **non-crop**, **conservation** and **industrial** areas.

**Roundup
TURBO
HERBICIDE**



Pantera

RELIABLE POST-EMERGENCE WEED CONTROL

A selective post-emergence emulsifiable concentrate systemic herbicide for the control of certain annual and perennial grass weeds as well as volunteer **Roundup Ready** **maize** in crops as indicated.

EFFECTIVE WEED CONTROL, WITHOUT FAIL!

Roundup® – still the most effective solution.



APPLICATION FLEXIBILITY

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.



- /// As a pre-plant spray, you can rely on clean fields.
- /// Enabler of conservation agriculture.
- /// Is rainfast within two hours of spraying.



- /// Guarantees crops safety.
- /// Is rainfast within one hour of spraying.
- /// Roundup® PowerMAX is used for post-emergence as a general spray over the top or directed on crops that contain the Roundup Ready® technology, i.e. maize, soya and cotton.



CONTAINS TRANSORB™ TECHNOLOGY FOR FASTER ABSORPTION AND TRANSLOCATION



PROVIDES APPLICATION FLEXIBILITY AS PER INDIVIDUAL LABEL RECOMMENDATIONS



BROAD-SPECTRUM WEED CONTROL

MIXING ORDER OF PRODUCTS AS EASY AS: 1-2-3

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: Further top-up spray tank to 100% with water and circulate



GLYPHOSATE – A ROUNDUP OF EVERYTHING YOU NEED TO KNOW

Unwanted weeds can place a huge strain on farmers as it may lead to higher production costs, contamination of crops during harvests or yield losses which has a negative effect on a farm’s profitability. Glyphosate-based herbicides play an enormous role in controlling unwanted weeds that reduce crops’ productivity and quality. Glyphosate-based herbicides have a long-standing reputation for providing effective weed management while improving soil health and soil biodiversity. Furthermore, it helps prevent soil erosion and reduces greenhouse gas emissions.

Worldwide, the active ingredient, glyphosate, forms the cornerstone of weed management programmes on many farms where it provides flexibility to achieve efficient weed control. **Bayer’s Roundup®** herbicide range (with glyphosate as the active ingredient) also allows for easier adoption of conservation and no-till practices, both agricultural systems which are known to make substantial contributions towards sustainability in agriculture.

WHAT IS GLYPHOSATE?

Glyphosate is the active ingredient contained in numerous non-selective herbicides developed to eliminate unwanted invasive plants. Products with a glyphosate base are used in agriculture, vegetation management, lawn and garden products, on railways and various other platforms. Glyphosate is registered for use on more than 100 crops and is one of the most widely used herbicides in the world. Today, glyphosate is registered and marketed in more than 160 countries.

WHO USES GLYPHOSATE?

Glyphosate (**Roundup®**) is used by large- and small-scale farmers as well as homeowners and horticulturists for the control of weeds. Glyphosate is widely used prior to planting of crops 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. This is due to the combination of the soil-binding capacity, product immobility and rapid degradation which are typical for glyphosate and quite unique when compared to other commercial herbicides.

HOW DOES GLYPHOSATE WORK?

Glyphosate is absorbed into the plant through its leaves and soft stalk tissue before being transported throughout the plant to the roots, nodules, and bulbs. Its unique action in plants involves the inhibiting of a single enzyme only found in plants. Therefore, glyphosate only controls plants and not microorganisms or animals and insects.

As glyphosate is systemic, plants treated with glyphosate will slowly die over a period of days or weeks and no part of the plant should survive. Glyphosate is rapidly inactivated when it comes into contact with soil, since it binds to the clay particles of the soil and therefore cannot be taken up by the roots.

IS GLYPHOSATE SAFE?

At **Bayer**, your safety is our priority, which is why all our crop protection products undergo rigorous testing to ensure their safety. Glyphosate is one of the most researched herbicides in the world and there is an overwhelming weight of scientific evidence that underscores the safety and performance of this active ingredient in **Roundup®** herbicides. Based on an in-depth review of the comprehensive datasets available, regulatory agencies around the world have concluded that glyphosate is not a reproductive toxin or teratogen (cause of birth defects). There is also no evidence that glyphosate causes cancer, even at high doses. Because it is not genotoxic, it does not cause mutations that can lead to cancer.

Additionally, anecdotal results from first-hand experience of millions of farmers and home gardeners who have used this product for decades indicate safe use. Studies have shown that glyphosate, when applied according to the instructions on the label, is not harmful to soil insects, earthworms or microscopic soil organisms.

BAYER’S PORTFOLIO

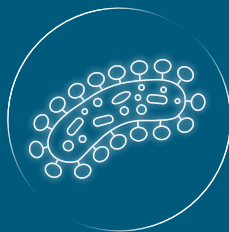
Our **Roundup®** product range consists of various glyphosate-based products used for the treatment of unwanted weeds.

- The following Roundup® products form part of our portfolio:**
- Roundup®** – A very effective herbicide for general use.
 - Roundup® TURBO** – Contains **Transorb™** technology for faster absorption and translocation and ensures rainfastness within two hours after spraying.
 - Roundup® PowerMAX** – For post-emergence use as a general spray (over the top) or directed spray on maize, cotton and soybean cultivars that contain the **Roundup Ready®** gene.

Roundup® PowerMAX and **Roundup® TURBO** are still **Bayer’s** number one product choices in an integrated weed control programme.

Resource: <https://www.glyphosate.eu/>





GUARD YOUR CROP AGAINST DISEASES

ENHANCED CROP PROTECTION THAT COVERS EVERY HECTARE

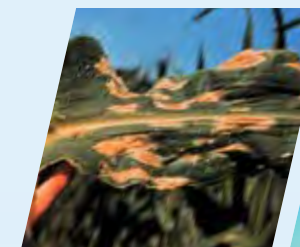
Fungicides control the growth of fungi and their spores that damage plants, including rusts, mildews, and blights. Fungicides work in a variety of ways, but mostly damage fungal cell membranes or interfere with energy production within fungal cells.

Discover the **#BAYERbenefit**.



NATIVO®

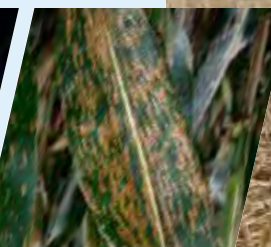
Quality is
non-negotiable



Northern leaf blight



Brown rust



Grey leaf spot



Untreated



Nativo®

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

Benefits

- /// Rainfastness 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*) in maize.



Protect the
powerhouse
of your crop

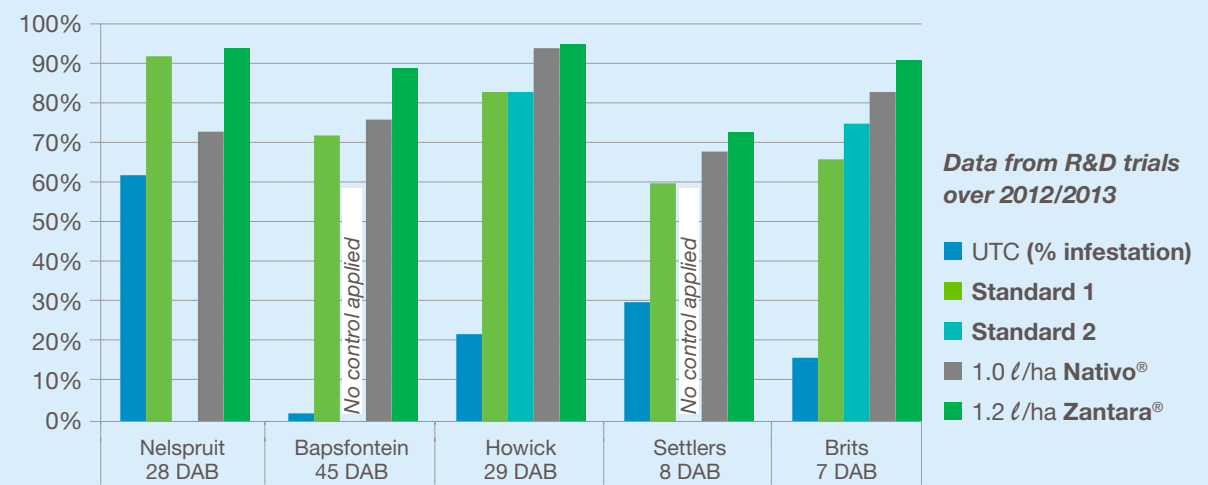
Zantara® has two modes of action delivering robust control.

Benefits

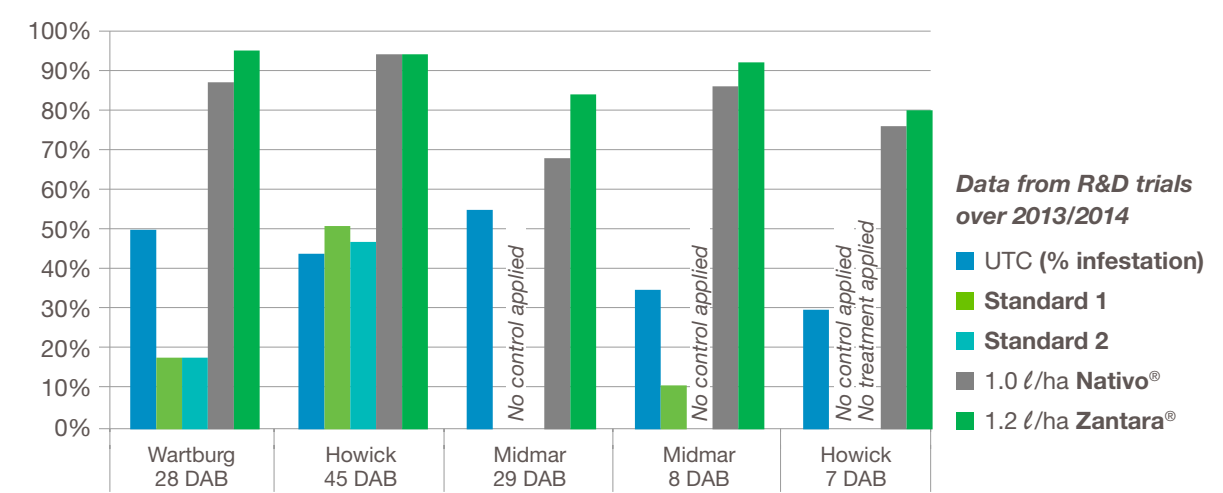
/// Zantara® provides long-lasting control.

/// Zantara® complements Nativo® in a spray programme through it's alternative way of disease controlling.

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.





GUARD AGAINST INSECT DAMAGE

ENHANCED CROP PROTECTION THAT COVERS EVERY HECTARE

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.

Discover the **#BAYERbenefit**.



Stay on top,
just trust

Decis® Forte

*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

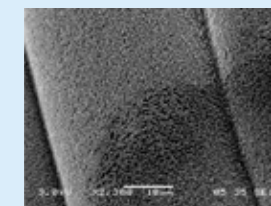
1 ha re-planting = 150 ha **Decis® Forte** treatment

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

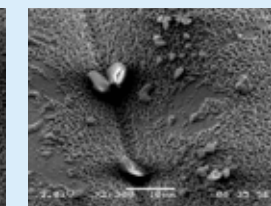
1 ha loss = 0.3% over 300 ha

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

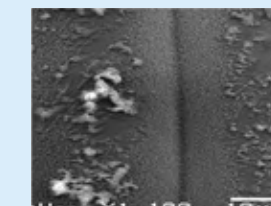
Coverage of plant surface (wheat)



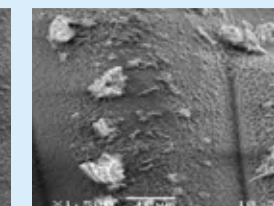
Decis® Forte



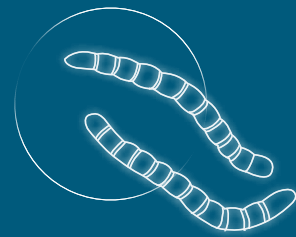
Alpha-Cypermethrin



Alphamethrin



Lambda-Cyhalothrin



GUARD AGAINST NEMATODES

ENHANCED CROP PROTECTION THAT COVERS EVERY HECTARE

Plant-parasitic nematodes are destructive 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%.

Discover the **#BAYERbenefit**.



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 environmental profile.
- /// Offers effective and long-lasting control.
- /// The granular formulation allows the best uptake in the plant's root zone for optimal results.
- /// Exceptional nematode control.

Bothaville 2018: Root observations



Velum® 1 GR +
seed applied nematicide

Competitor + seed applied
nematicide

Seed applied
nematicide

Seed applied
nematicide

Velum® 1 GR
+ Seed applied
nematicide



VELUM
1 GR

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 in order to be 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**.

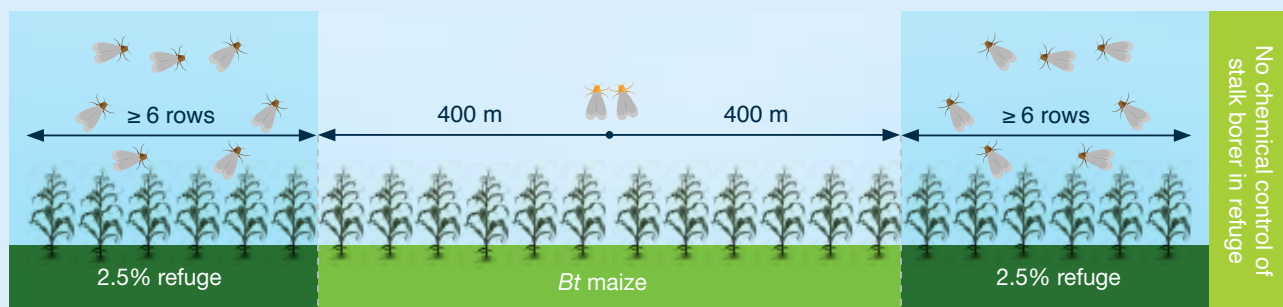


Plant the correct *refuge area for maize*

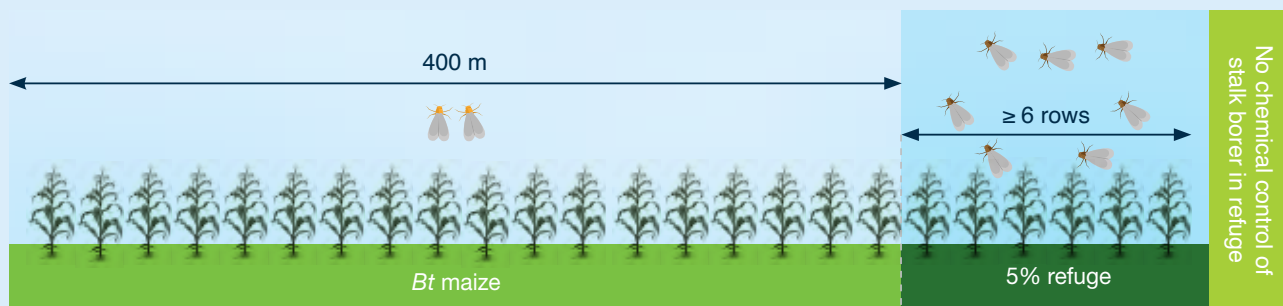
Step 1

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

PLANTING THE CORRECT REFUGE AREA

Although the development of insect resistance is a reality, the implementation of the correct resistance management practices can alleviate the pressure placed on your farming practice. In this regard, planting refuge areas according to the correct specifications plays a crucial role.

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.

INTACTA RR2 PRO[®]

BREAKING NEW GROUND IN SOYBEAN TECHNOLOGY.

INTACTA RR2 PRO[®] technology offers the following key benefits:



PROTECT

Protect against serious feeding damage caused by African bollworm.



MAXIMISE

Increased yield potential through repositioned herbicide tolerant trait on the soybean DNA.



IMPROVE

Improved glyphosate tolerance provided by Roundup Ready 2 (RR2)[®] technology.

INTACTA RR2 PRO[®]

POD DAMAGE CAUSED BY AFRICAN BOLLWORM

STANDARD



INTACTA RR2 PRO[®]

FOLIAR DAMAGE CAUSED BY AFRICAN BOLLWORM

STANDARD



INTACTA RR2 PRO[®]

The revolution in soybean technology is here!

The **INTACTA RR2 PRO[®]** technology offers three key benefits in a single product. This new trait combination represents a significant milestone for South African farmers and showcases the next wave of innovation in soybean at **Bayer**. The introduction of **INTACTA RR2 PRO[®]** brings a new choice in insect control and convenience to farmers increasing productivity, efficiency and value leading to yields of higher quality and quantity.

TECHNOLOGY AND INNOVATION



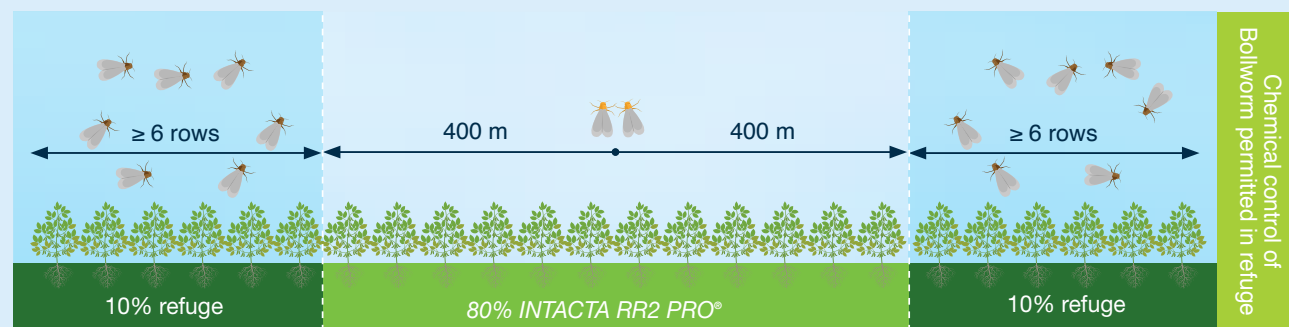
Plant the correct refuge area for soybeans

Step 1 Choose the option best suited to your farm:
chemical control allowed if needed on the 20% refuge area only.

Option 1A: field size under 400 m



Option 1B: field size over 400 m



KEY Resistant adult insects Susceptible adult insects

INTACTA RR2 PRO®

Respect the refuge!

Step 2 Your refuge area needs to be
planted in the following manor:

Similar variety with the
same maturity group

Each grower must plant
their own refuge area

Minimum of 6 row strips

Planted within 7 days

Plant refuge on borders
of the field

Don't mix seed

Grown under the same
agronomical conditions

Refuge area within 400 m of all
INTACTA RR2 PRO® plants

Don't cross INTACTA RR2
PRO® rows with refuge rows

Step 3 If excessive bollworm damage is detected in INTACTA RR2 PRO® fields,
please contact your seed representative immediately for assistance.

PUT YOUR SAFETY FIRST

At **Bayer**, your safety and the sustainability of your farming practice is our priority, which is why we continuously strive to provide you with sufficient information to steer these processes on your farm. It is of great importance that the correct measures are put in place to ensure the safety of individuals working directly with crop protection products. Grasping the process of reading a product label, understanding the risks of exposure and using the correct personal protection equipment (PPE), is key in ensuring your safety.

PRODUCT LABEL

ALWAYS READ THE PRODUCT LABEL BEFORE USE

The label provides the user with all the essential information about the product and how to use it safely and effectively.

ALL LABELS HAVE THE APPROPRIATE HAZARD COMMUNICATION

(Symbols, signal words, statements, etc.) according to hazard classification of the product.

To minimise any risks of using the product, important advice is given on the label in regard to:

- /// General precautionary statements or warnings
- /// Relevant personal protective equipment (PPE)
- /// Precautions when handling the concentrate
- /// Precautions during and after application
- /// Environmental precautions during and after application
- /// Disposal of empty containers after use

- Depending on the toxicity of the product the World Health Organization (WHO) classifies all crop products into either of the 4 colour codes:
- Class Ia/Ib The colour code is red and denotes that the product is extremely hazardous.
 - Class II Yellow
 - Class III Blue
 - Class IV Green

Hazard class colour indicators				
Class Ia Extremely hazardous	Class Ib Highly hazardous	Class II Moderately hazardous	Class III Slightly hazardous	Class IV Unlikely to present acute hazard in normal use

Just by looking at the label, the farmer should be able to tell the classification of the product.

RISK AND EXPOSURE

ROUTES OF EXPOSURE

DERMAL/SKIN
Occurrence may be rapid in case of unprotected arms, hands, feet and face.
High temperature and perspiration of the skin increase the penetration.

ORAL/MOUTH
When eating, drinking or smoking during application or mixing.

INHALATION/BREATHING
By breathing (inhalation).

PERSONAL PROTECTION EQUIPMENT (PPE)

It is important that you wear the correct PPE when handling crop protection products.

EXAMPLES OF PPE



PERSONAL HYGIENE

Hands are the most exposed part of your body. Protect them! Not all gloves are suitable for handling crop protection products: wear Nitrile Gloves specific for the purpose.

Keep the following in mind when dealing with crop protection products:

- DO NOT TOUCH the face or bare skin with contaminated hands or gloves.
- WASH GLOVES WITH WATER each time when using them and before taking them off.
- ALWAYS WASH YOUR HANDS before you eat, drink, smoke or go to the toilet.
- DO NOT SMOKE, DRINK OR EAT whilst handling, mixing, filling, spraying Crop Protection Products (CPPs) and monitoring crops.
- WASH ANY CHEMICAL SPILLS from skin and eyes with clean water immediately.




We back you with benefits

 Advanced genetics

 Enhanced seed protection

 Digital insights and support

 Exclusive crop protection

 Innovative biotechnology



That's what you call the
#**BAYER**benefit

Have you explored all the technology at your disposal?

Imagine the possibility of a combined solution tailored to your farming needs. That is exactly what **Bayer** provides – a full-package solution for maize that offers you the benefits. At **Bayer**, we back you every step of the way by ensuring you have a solution for every aspect of farm management. A partnership that benefits your farm by helping you grow sustainably and profitably.



MAIZE spray programme

Standard – grass-spectrum weeds



Pantera
Silwet
PRE-PLANT



Herbicide



MAIZE spray programme

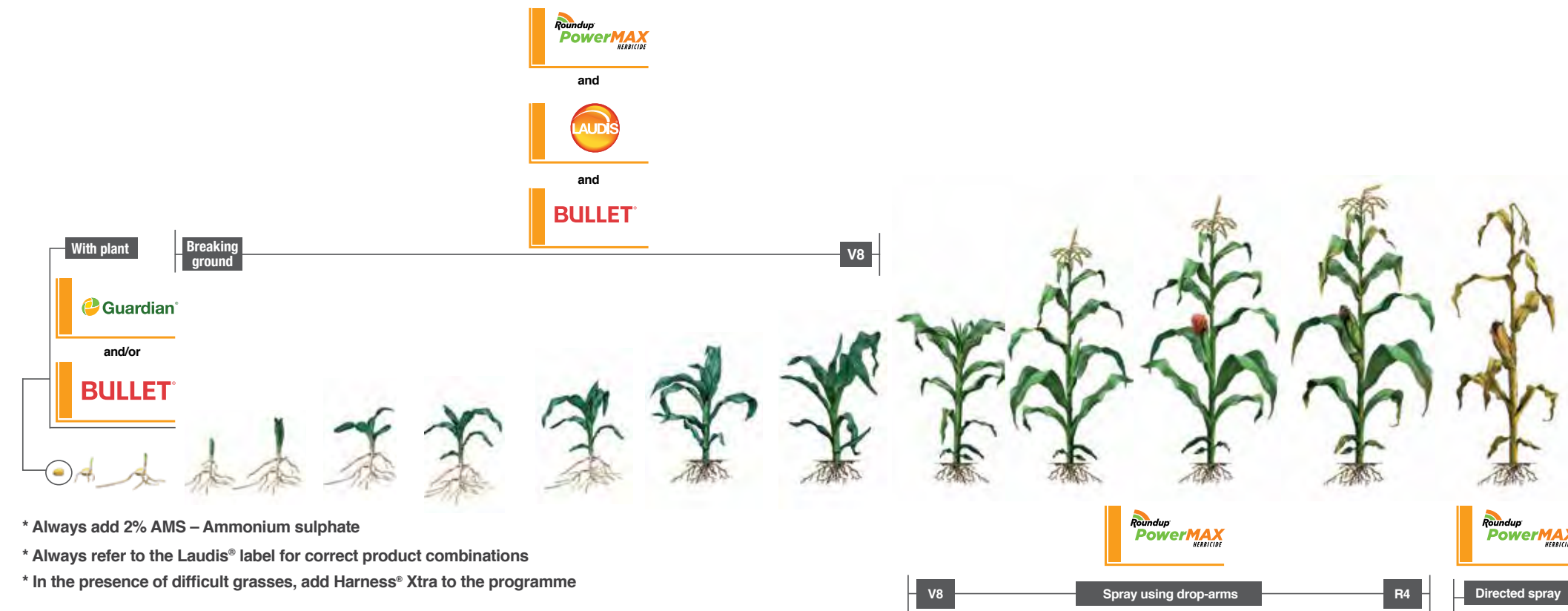
Difficult to control – grasses and broadleaf-spectrum weeds



Pantera

Silwet

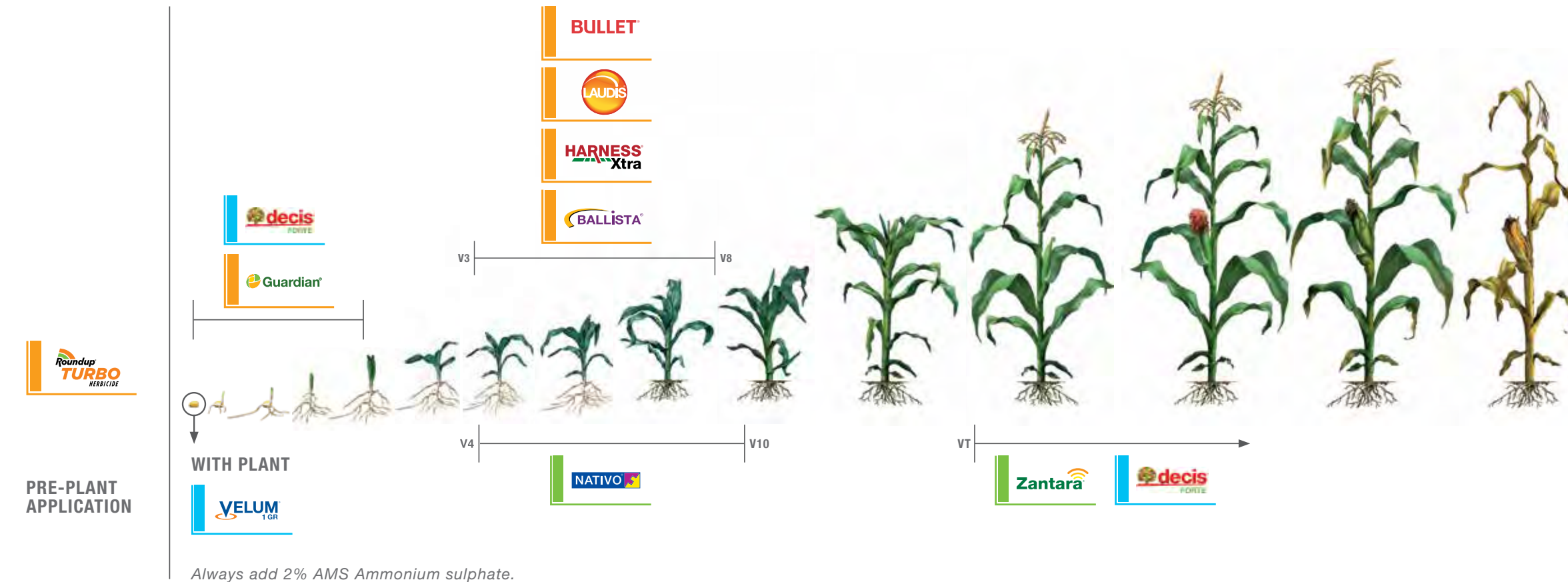
PRE-PLANT



Herbicide

CONVENTIONAL MAIZE

spray programme



Fungicide

Insecticide

Herbicide

This is just a guideline and can vary according to the area and the choice of hybrid. // For more information, please contact your **Bayer** representative.



Commercial smallholder – Roundup Ready® spray programme

CONVENTIONAL spray programme



DIGITAL

Registration Ownership

The registration owner of **Acceleron®**, **Bullet®**, **DEKALB®**, **Guardian®**, **Harness® Xtra**, **Intacta RR2 PRO®**, **Roundup Ready®**, **Roundup Ready® MAIZE 2**, **Roundup Ready PLUS®**, **Roundup® PowerMAX**, **Roundup Ready® Technology**, **Roundup® TURBO**, **Transorb™**, **YieldGard®** and **YieldGard® MAIZE 2**, is **Bayer AG**, Germany.

Roundup® Reg. No. L0407 (Act No. 36 of 1947). Contains 360 g glyphosate/l. Caution.

Roundup® PowerMAX Reg. No. L7769 (Act No. 36 of 1947). Contains 540 g glyphosate/l. Caution.

Roundup® TURBO Reg. No. L7166 (Act No. 36 of 1947). Contains 450 g glyphosate/l. Caution.

Bullet® Reg. No. L5623 (Act No. 36 of 1947). Contains 250 g Acetochlor (chloroacetanilide), 225 g Atrazine (triazine), 225 g Terbutylazine/l. (triazine). Harmful.

Guardian® Reg. No. L4862 (Act No. 36 of 1947). Contains 840 g Acetochlor/l (chloroacetanilide). Caution.

Harness® Xtra Reg. No. L7703 (Act No. 36 of 1947). Contains 960 g Acetochlor/l (chloroacetanilide). Caution.

The following products are trademarks of Bayer AG, Germany:

Ballista® Reg. No. L7442. (Act No. 36 of 1947). Contains Methylated vegetable oil and Alcohol ethoxylate. Harmful.

Bulldock® Beta 125 SC Reg. No. L7612. (Act No. 36 of 1947). Contains Beta-cyfluthrin (pyrethroid). Harmful.

Create® Reg. No. L10658 (Act No. 36 of 1947). Contains Prothioconazole (triazole).

Decis® Forte Reg. No. L6563 (Act No. 36 of 1947). Contains Deltamethrin (pyrethroid). Harmful.

Gaicho® FLEXX 600 FS Reg. No. L6562. (Act No. 36 of 1947). Contains Imidacloprid (chloro-nicotinyl). Harmful.

Laudis® Reg. No. L8525 (Act No. 36 of 1947). Contains Tembotrione (triketone) and Isoxadifen-ethyl (Safener). Harmful.

Nativo® Reg. No. L8942 (Act No. 36 of 1947). Contains Tebuconazole (triazole) and Trifloxystrobin (strobilurin). Caution.

Torque® Reg. No. M180. (Act No. 36 of 1947). Contains Lipo-chito oligosaccharide (lco sp104).

Velum® 1 GR Reg. No. L10783 (Act No. 36 of 1947). Contains Fluopyram (pyridinylethylbenzamide). Caution.

Zantara® Reg. No. L10011 (Act No. 36 of 1947). Contains Bixafen (pyrazolecarboxamide) and Tebuconazole (triazole). Harmful.

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

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

Maxim® Quattro Reg. No. L9494 (Act No. 36 of 1947). Active ingredients: Thiabendazole (benzimidazole), Azoxystrobin (strobilurin), Fludioxonil (phenylpyrrole), Metalaxyl-M (phenylamide).

Cruiser® Force Reg. No. L8597 (Act No. 36 of 1947). Active ingredient: Thiamethoxam (neonicotinoid).

Avicta® Reg. No. L8496 (Act No. 36 of 1947). Active ingredient: Abamectin.

The following products are trademarks of Arysta LifeScience SA:

Pantera® Reg. No. L6451 (Act No. 36 of 1947). Contains Quizalofop-p-tefury (120 g/l). Harmful.

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.

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

All the products are registered under Act 36 of 1947.



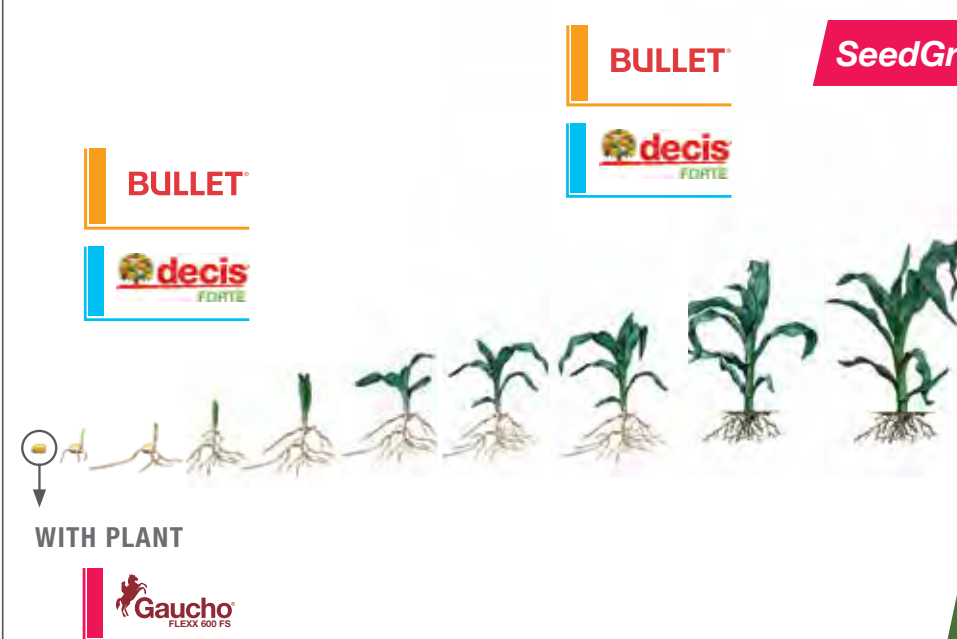
PRE-PLANT
APPLICATION
BURN DOWN



Always add 2% AMS Ammonium sulphate.



PRE-PLANT
APPLICATION
BURN DOWN



Always add 2% AMS Ammonium sulphate.

Insecticide

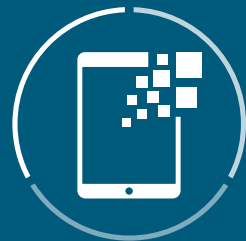
Herbicide

SeedGrowth

This is just a guideline and can vary according to the area and the choice of hybrid. // For more information, please contact your **Bayer** representative.



DIGITAL



DATA THAT MAKES THE DIFFERENCE

DATA-DRIVEN DECISION-MAKING

Season after season you are forced to make crucial decisions that influence your farm. Our comprehensive package of digital solutions can make a significant difference. Collect, view, and analyse data from your fields to help you make the right decisions throughout the season, plan for the next season and identify and treat issues early on.

Explore tailored digital solutions.
Discover the **#DEKALB** difference.



CLIMATE
FIELDVIEW[™]

FIELDVIEW™ – THE DIGITAL FARMING PLATFORM THAT HELPS YOU TO MAXIMISE YOUR PRODUCTIVITY

What is FieldView™?

FieldView™ is **Bayer's** digital farming platform.

FieldView™ unlocks the real power of your farm data – bringing it to life interactively on one screen and in real-time. This allows quick, accurate analysis to make the best decisions possible: whether that's choosing next year's varieties, understanding the performance of different fungicide applications, or managing harvest.

FieldView™ is powerful yet simple to use and compatible across most equipment. It allows instant in-cab analysis and remote live metre-by-metre monitoring, seamlessly including past data. All this means faster, more accurate planning and analysis which pays off in lower costs, higher yields and better performance.



GET YOUR DATA IN ONE PLACE



UNCOVER VALUABLE FIELD INSIGHTS



MAXIMUM PRODUCTIVITY



GET YOUR DATA IN ONE PLACE

Seamlessly bring your data together in one place for easy access. Stream today's information directly from your equipment, upload historical data quickly, and create and share reports rapidly and easily. **FieldView™** quickly accepts historical data and adds four years of satellite images, so all your history is in one place. The package is usable on most devices and in multiple ways, from day-to-day harvest management and variety trials to seed prescriptions for next year.

FieldView™ then builds on this, bringing key data from any current work including the latest trial results, spraying and crop reports almost instantly into the cab iPad in an easy, highly interactive system.

As well as insights for the big decisions, the real-time aspect saves effort and cuts costs in daily operations.



UNCOVER VALUABLE FIELD INSIGHTS

FieldView™ means customised data in-cab and on any screen at every stage of the season from drilling to harvest. This means higher efficiency and less time wasted because you unlock the full power of your field data.

Historical and current data can be **uploaded rapidly** into **FieldView™**, so you can:

/// analyse farm performance by field, variety, treatment, and soil dynamics.

- /// see full trial-plot yield data instantly without even stopping the harvester.
- /// compare maps side by side to better understand the causes of variability field by field and, if needed, metre by metre.
- /// see scouting data in simple formats using colour-coding.
- /// see metre-by-metre information to help with drilling prescriptions, weed control and harvest management.

FieldView™ allows you to make rapid, confident decisions because huge amounts of data are synthesised into clear insights almost instantly, on virtually any screen.



MAXIMUM PRODUCTIVITY

Quickly and easily build a customised plan and manage variability with field-by-field prescriptions.

With **FieldView™**, good data will become useful information. That means good decisions backed by hard numbers and an overall farm strategy that's truly designed to maximise every field.

Asked about **FieldView™**, Hugo le Roux, Digital Activation Manager and Key Accounts at **FieldView™** South Africa said: "**FieldView™** provides a holistic approach to data management, and farmers can now capitalise on all the investments made with one easy-to-use platform which will help them not only save money, but also make important operational decisions based on data.

A COMPLETE PACKAGE

FieldView™ really does provide a cost-effective, year-round digital farming package regardless of the size of your operation.

As South African farmer **Japie Breedts** puts it:

“**FieldView™** completely changed my farming operation. This platform allows me to make better decisions for my farm because I have real-time data.”

Getting started with FieldView™ FieldView™ Discover – One-year free trial

With **FieldView™ Discover**, we would like to offer our loyal clients the opportunity to test our product with a one-year free subscription. You can request a promotional code by contacting your nearest **DEKALB®** sales representative.

If you’ve signed up for the trial, congratulations! As a reminder, here’s how to get started and get local support.

Create an account:

1. In your Chrome browser, navigate to climatefieldview.co.za.
2. Click on “Create account” (top right of the page).
3. Enter your details in the required fields and accept the EULA and Privacy policy.
4. Click on “Create account”.
5. You will be prompted to validate your email address. Follow the link in the email sent to you and enter your username and password when requested.

Log into your account:

1. In your Chrome browser, navigate to climatefieldview.co.za.
2. Click on “Login” (top right of the page).
3. Enter your username (email address).
4. Enter your password.
5. Click on “Login”.
6. For the **FieldView™ app** and **FieldView™ Cab** app you can use the same username (email) and password.

NEED MORE HELP? SCAN THE QR CODES BELOW FOR MORE GUIDANCE.



SET UP YOUR
ACCOUNT



DOWNLOAD
THE APPS



GET YOUR HISTORIC
DATA INTO FIELDVIEW™



MAP YOUR
FIELDS

FIELDVIEW™ YOUTUBE CHANNEL



For more information and step-by-step videos, scan the QR code to visit our YouTube Channel.

FIELDVIEW™ ACADEMY



The **FieldView™ Academy** offers you the chance to become a **FieldView™** expert by mastering this digital platform. With short step-by-step videos, we guide you through the entire process and help you gain confidence to use the platform in practice. Scan the QR code to start learning!

CONTACT US NOW!



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WALKING THE WAY FORWARD TOGETHER

WHAT DOES YOUR FARM'S FUTURE LOOK LIKE?

At **Bayer**, your success, is our success, your family is our family and the vision you have for your farm is our vision too. With hands-on support in every step of your farming journey, we help you plant, grow and reap your success. Creating a better tomorrow – not only for your farm, but also for our people and our planet. Speak to us to find out how we can find a solution to your farm's benefit.

Let's partner in our goal to shape agriculture and build a future where there is ...

Health for all,

Hunger for none



GET IN TOUCH!

SALES

KOBUS MEINTJES

Crop Science Country
Commercial Lead
South Africa
– 082 388 0232

TERRITORY EAST

GP VAN DEN BERG

Territory Manager: Seed, Crop
Protection and **FieldView™**
Howick, KwaZulu-Natal
– 083 229 2649

MYNHARDT NOËTH

Area Manager: Crop Protection
Hilton
KwaZulu-Natal
– 071 362 9305

JANNEMAN KOTZÉ

Area Manager: Crop Protection
Mpumalanga Highveld
– 066 306 8534

REGION 1

OCKIE VAN SCHALKWYK

Area Manager
Bethal
– 082 851 8483

PEET LA COCK

Middelburg, Belfast, Stoffberg
– 082 325 6648

LOURENS SWART

Bronkhorstspuit, Ogies, Delmas
– 082 682 2079

JAN GOUWS

Bronkhorstspuit, Bapsfontein,
Ogies, Delmas
– 079 528 5295

DAAN COETZER JNR

Grobiersdal, Marble Hall,
Lydenburg – 073 912 7686

NELIUS MOLL

Amersfoort, Ermelo, Carolina
– 084 409 1594

IGNUS VAN ROOYEN

Ermelo, Carolina
– 082 603 2810

RIEHAN JANSE VAN RENSBURG

Bethal, Highveld Ridge
(Hoëveldrif)
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JAN SAAIMAN

Standerton
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PAUL TERBLANCHE

Middelburg, Hendrina
– 076 062 5654

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Area Manager: Crop Protection
and Seed
– 071 362 9305
Hilton

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 **FieldView™**
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Potchefstroom
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THOM STEYN

Area Manager:
Crop Protection
Eastern Free State
– 082 443 3881

THYS ELLIS

Area Manager:
Crop Protection
Eastern & Northern
Free State
– 072 243 6113

REGION 2

MOF KRUGEL

Area Manager: Seed
Gauteng and Eastern
Free State
Heidelberg
– 082 388 0755

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

LEON PRETORIUS

Parys, Koppies, Kroonstad,
Sasolburg – 082 868 1243

SG BOTES

Viljoenskroon, Vierfontein
– 082 651 9105

GERT ERASMUS

Bothaville, Odendaalsrus
– 082 446 6088

WYNAND NORTJÉ

Heilbron, Sasolburg
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STEPHAN ERASMUS

Fochville, Vereeniging,
Potchefstroom
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CLIFFIE CAWOOD

Senekal, Winburg, Steynsrus,
Arlington
– 083 444 5527

CHARLES KOTZÉ

Clocolan, Ficksburg, Ladybrand,
Marquard
– 082 898 7631

REGION 6

HENNIE STANDER

Area Manager: Seed and Crop
Protection
Northern, Eastern and
Southern Cape
Kimberley
– 071 304 1165

TIAAN VLOK

Douglas – 082 551 2580

LOUWTJIE STEENKAMP

Jacobsdal – 082 808 3316

PIETER-PAUL DE VRIES

Upington, Groblersshoop, Prieska
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BEN CRONJÉ
Hopetown, Luckhof
– 083 701 7476

NOLENE CRONJÉ
Hopetown, Luckhoff
– 083 701 7476

RP OELOFSE
Vaalharts – 082 823 2598

DIRKIE VISSER
Cradock, Hofmeyer, Gariep Dam
– 082 550 4499

FLIP SNYMAN
Port Elizabeth
– 082 335 4783

WILLE LOUBSER
Durbanville – 071 604 5965

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Territory Manager:
Seed, Crop Protection and
FieldView™
Potchefstroom
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SCHALK KOTZÉ
Area Manager: Crop Protection
– 082 896 2470

NIEL BASSON
Area Manager: Crop Protection
– 083 226 3069

REGION 5

HANNES KRIEL
Area Manager: Seed
Bultfontein
– 079 525 6251

RUDI DE BRUIJN
Schweizer-Reneke
– 066 307 3320

DW DE VILLIERS
Bultfontein – 082 652 2550

ANDRÉ BEZUIDENHOUT
Hoopstad – 083 448 9194

SAM KRAMER
Kroonstad – 082 894 5788

RUDOLPH MARAIS
Wesselsbron – 083 293 0686

ERNST MARAIS
Wesselsbron – 082 486 6440

CHARL BLOM
Christiana, Hertzogville
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BENNA VAN WYK
Bloemfontein – 082 337 0910

JACQUES VAN DER VYVER
Wolmaransstad,
Leeudoringstad, Makwassie
– 082 866 1698

REGION 7

COENIE REICHEL
Area Manager: Seed
Lichtenburg
– 083 458 3135

WILLA BOTHA
Hartbeesfontein, Ottosdal,
Klerksdorp
– 083 287 6443

WERNER SWANICH
Lichtenburg West, Mafikeng,
Zeerust – 076 812 2041

**HANNES JANSEN VAN
RENSBURG**
Lichtenburg East, Coligny
– 083 230 8191

GERT VAN DER LINDE
Biesiesvlei, Sannieshof,
Mareetsane, Stella
– 079 524 7954

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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
Bela-Bela
– 083 255 9566

**TERRITORY
NORTH**

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Territory Manager
Nelspruit
– 082 878 0818

JACO BARNARD
Area Manager: Crop Protection
Marble Hall – 072 374 6244

LUAN BOTHA
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Tzaneen – 066 112 6875

**TERRITORY
SOUTH
(WESTERN, EASTERN
AND NORTHERN CAPE)**

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Area Manager: Crop Protection
Paarl – 082 806 8715

BENNIE BOTES
Area Manager: Crop Protection
Paarl – 082 871 2318

JEAN PIERRE JOUBERT
Area Manager: Crop Protection
Paarl – 082 374 3812

NICOLIZE STIGAARD
Area Manager: Crop Protection
Paarl – 082 650 6660

MARET VAN RENSBURG
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Paarl – 076 062 7312

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AND EMERGING
COMMERCIAL**

DUDU MASHILE
Territory Manager
Isando
– 081 450 1212

RODNEY NDOU
GP/NW/LP/Lesotho/Botswana
– 078 155 9382

SANDILE KHUMALO
KwaZulu-Natal, Eastern Cape,
eSwatini
– 082 388 0215

CHRIS PHAKATHI
Mpumalanga
– 082 388 4446

FieldView™

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Digital Activation Manager & Key
Accounts
Isando
Digital Activation Specialist –
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– 082 768 5166

ABI HELBERG
Digital Activation Specialist
Eastern Region
– 066 259 3284

RYNO TERBLANCHE
Digital Activation Specialist
Central Region
– 082 610 5369

BRAZER ERASMUS
Digital Activation Specialist
Western Region
– 076 425 0669

KARYN KOEKEMOER
Customer Success Specialist
– 076 076 4521

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LEONARD OBERHOLZER

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Maize Strategy Manager:
South Africa
– 082 096 5416

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Business Portfolio Manager for
Africa
– 083 289 0212

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STEPHEN NEL

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– 082 887 6696

AGRONOMISTS

TIAAN VENTER

Market Development Digital
Lead Africa
– 076 874 7021

JAKO BENADIE

Market Development Territory
Lead Maize & Soybean, East
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WILHELM VAN HEERDEN

Market Development Territory
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HIGHVELD

ANDRÉ BOTES

– 082 374 1647

KWAZULU-NATAL

DENNIS MAKUWA

– 072 595 7080

NORTH WEST

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– 082 388 0236

PAUL GROENEWALD

– 084 200 2314

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