

Celebrating One Hundred Years



PIONEER®
HUNDRED YEARS

100

THE PIONEER PROMISE

Pioneer is committed to improving people's lives and livelihoods. Our primary focus on our customers has earned us a reputation for reliability. Our dedication and commitment to finding solutions that help improve crop yields and increase productivity for producers worldwide remain the cornerstone of our business.

OUR PURPOSE

To enrich the lives of those who produce and consume, thereby ensuring progress for future generations.

OUR VALUES



Enrich Lives

We commit to improving lives and the land



Confidence

We are leaders who act with confidence



Innovation

We innovate without holding back



Collaborate

We grow through working together



Integrity

We always do what is right



Live Safely

We respect safety and the environment in everything we do

THE LONG LOOK

THE PIONEER WAY OF DOING BUSINESS

We are an international company with a unique combination of cultures, languages and experience. Our business and customers have changed dramatically since Henry A. Wallace founded the Hi-Bred Corn Company in 1926.

This Long Look philosophy – our attitude toward research, production, and marketing, and the worldwide network of Pioneer people – will always remain true to the four simple statements that have guided us since our early years:

- We strive to deliver the best products on the market.
- We deal honestly and fairly with our customers, seed growers, employees, salespeople, business partners, and shareholders.
- We advertise our products vigorously, but without misrepresentation.
- We provide useful management advice to our customers to help them achieve the greatest possible profit from our products.



PIONEER

PIONEER

EVERYTHING STARTS WITH ONE



PIONEER®
HUNDRED YEARS

PIONEER

Pioneer



ONE ROUTE TO AGRONOMIC SUCCESS

Unmatched Agronomic Expertise on the Farm as a Business

The Pioneer Agronomy team supports the efforts provided by Pioneer clients –to establish the best possible management practices for optimal productivity on their farms.

The members of the Agronomy team bring together a wide range of agronomic expertise, specialties, and experience to support and advise clients. At Pioneer, we are dedicated to improving crop management.

Our ONE goal is to place the right product on the right hectare.

STRONG technology focus: The aim is to work scientifically to produce the best crop on the most consistent basis possible in any situation, leading to a yield advantage.

We have a diverse, “strong” **TEAM**, and each Agronomist specializes in a specific crop or in a specific aspect of crop production in a specific area. Pioneer has Product Agronomists who specifically focus on IMPACT™ trials – where they continuously test and release new products. The team’s innovative research and data analysis methods are based on farm-scale research, enabling us to manage diverse variable factors that impact grain production. The Pioneer Agronomy team broadens its research horizons and provides innovative information to supply farmers with enriched data to make informed decisions throughout the year.

Pioneer, the **LEADER** in the market, is a proven and reliable brand. With Pioneer genetics and the latest research, along with unique and specialized digital programs, grain production is improved and value is added for the farmer.

PRECISION TECHNOLOGY: The right product can be recommended for the right hectare by using this digital technology. The Pioneer Agronomy team can make better cultivar recommendations regarding new biotechnological traits, genetic placement, and correct population on different soil potentials for the specific genetics for YOU in YOUR area.

MEASURABLE results: Planting prescription maps can also be created for Pioneer genetics to deliver the highest potential yield on the specific soil potential. In this way, the Pioneer client can optimise yields, improve efficiency, and reduce risks through reliable agronomic traits such as improved root mass and rapid, strong emergence. Through this, we strive to ensure food security for the future through Pioneer genetics backed by 100 years of experience.

100 YEARS OF DATA-DRIVEN PROFITABILITY

INFLUENCE YOUR FINANCIAL SUCCESS

We eliminate the constant reconciliation of tables and data and missed opportunities to save. Just simple, uncomplicated analysis for better decision-making.



MAKE MORE PROFITABLE DECISIONS

Compare profit per hectare with planted varieties or soil types by using agronomic and financial map layers.



UTILIZE YOUR DATA

Upload data you already have from more than 10 manufacturers, including John Deere Operations Center.



SILAGE CUTTING PREDICTION

We can accurately predict the cutting time for each of your silage fields.



SEE WHAT WORKS

Get simple charts showing the impact of harvest moisture and planting date on your yield.



IDENTIFY AND CORRECT PROBLEMS FASTER

Add Directed Scouting for near-daily satellite images with a resolution of 3 meters and weekly email alerts, so you know where to scout first based on changes in the field. GPS determines your exact location in the field.



WORK TOGETHER WITH YOUR TEAM

Take and share geo-tagged photos and notes.



PIONEER
HUNDRED YEARS

IS THIS RIGHT FOR YOUR FARM?

- Do you want access to yield and planting data in the field for faster decisions?
- Are you tired of encountering problems in the field after it's too late?
- Do you scroll through text messages to remember what happened on a specific field?
- Do you manage multiple fields you want to compare?



Granular



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PIONEER[®]
HUNDRED YEARS

GOOD THINGS START WITH ONE.

**ONE PERSON. ONE BAG OF SEED.
ONE FIELD. ONE HARVEST.**

For the past 100 years, it has been our mission to increase yields, improve pest resistance, and ensure prosperity. We strive to remain at the forefront of the technology wave for the next 100 years while always staying mindful of our origins. While our eyes are set on the future, we always cherish our century of legacy in our hearts.

BECAUSE 100 YEARS STARTS WITH ONE.



100



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POWERCORE™

100 YEARS OF PIONEER SEED TECHNOLOGY

POWERCORE™ TRAIT TECHNOLOGY

PowerCore™ technology is a high-performance, herbicide-tolerant seed trait that effectively helps protect crops against harmful above-ground insects, such as the maize stalk borer and spotted maize stalk borer.

The trait consists of three different *Bacillus thuringiensis* (Bt) proteins, which target insects in different ways while helping to extend the durability of the technology.

Look out for the "PW" in the Pioneer maize product name to ensure you have seed that offers broader control of above-ground lepidopteran pests.



Visit our website



PIONEER®
HUNDRED YEARS

100

PowerCore™ multi-trait technology developed by Corteva Agriscience and Monsanto.
PowerCore™ is a trademark of Monsanto Technology LLC.
Roundup Ready® Maize 2 is a registered trademark of Monsanto LLC.



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PIONEER[®]
HUNDRED YEARS

*Celebrating One Hundred Years
of Stewardship*

BIOTECHNOLOGY GUIDE 2026

PIONEER[®] BRAND PRODUCTS

STEWARDSHIP OVERVIEW

A MESSAGE ABOUT STEWARDSHIP

Pioneer is committed to the responsible management of all its seed products and when Pioneer introduces a new product in the market, we are in it for the long haul. Our philosophy of product stewardship means responsible management of the life cycle of our technologies, every step of the way – from initial research to the discontinuation of a product – for maximum product value, benefits and longevity (See Figure 1).

Therefore, for the benefit of all value chain stakeholders (i.e. technology developer, producers and consumers) Pioneer requires all growers to comply with in-country biosafety regulations, Pioneer policies and crop management strategies specific to the product. In the Pioneer Technology Use Agreement (TUA), Product Use Guide, and Terms and Conditions of Purchase, growers who purchase and plant Pioneer[®] brand seed with biotech traits agree to adhere to the stewardship requirements described in this guide.



Figure 1: Biotech Product Stewardship from research until product is discontinued.

Stewardship includes, without limitation, the following:

- Adhering to directions of use on seed and pesticide labels.
- Insect-resistant traited seeds must be planted with an accompanying refuge of non-biotech or herbicide-tolerant maize seed for Insect Resistance Management (IRM). The refuge must either comprise of at least 5% of the total maize crop planted (in which case the refuge may not be treated with an insecticide for the target insects), or at least 20% of the total maize crop planted if it is to be treated with an insecticide for the target insects. (See *Table 2* & *Figure 2* for more details).
- Following IRM requirements to delay the development of resistance to biotech traits by the target pest populations.
- Confirming trait acceptance, intended uses, and destinations with grain handlers (prior to delivery or using those products on-farm) for crops or material containing biotech traits (as indicated on *Table 1*).
- No exportation of seeds or any other material containing biotech traits into countries where the product is not allowed or registered, including through a third party. Any such activity will require approval by the relevant regulatory bodies.
- Implementing any additional stewardship requirements that Pioneer deems necessary for a particular product (e.g. grain or feed use restrictions and geographical planting restrictions).

WHY IS STEWARDSHIP IMPORTANT?

Proper stewardship of products is important because it offers the following benefits to growers:

- Access to Pioneer germplasm and biotech trait technologies in its seed products, subject to signing of the Technical Use Agreement.
- Protecting the long-term efficacy of Bt technologies.
- Enables technology developers to invest in the development of better, high-yield potential germplasm and additional technologies and innovations, further improving agricultural productivity for the farmers' benefit.

OUR COMMITMENT TO EXCELLENCE THROUGH STEWARDSHIP®

Pioneer is a member of Excellence Through Stewardship® (ETS) and Pioneer® brand products are commercialised in accordance with ETS Product Stewardship Guidance and in compliance with Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed or sold in jurisdictions where all necessary regulatory approvals have been granted for those particular crops and materials.

It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted by regulatory authorities. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship. For more information <https://www.excellencethroughstewardship.org/>.



PIONEER TECHNOLOGY USE AGREEMENT (TUA)

Pioneer has a long history of investing in intellectual property to provide growers with high performing varieties and industry leading services. Our continued commitment to product research results in brand products that consistently deliver high yield potential with the objective to increase a grower's profitability. Pioneer® brand is the flagship seed brand of Corteva Agriscience and it uses patents and Plant Variety Protection (PVP) laws to protect our investment in patented germplasm, native and transgenic traits, and breeding technologies. PVP laws give breeders exclusive control over plant varieties for up to 20 years, enabling Corteva Agriscience to bring new products to the marketplace, supported by improved technology.

It is important to note that Pioneer product offerings, even if not biotech, can carry multiple types of intellectual property protection, such as patented genetics, patented breeding technologies, plant variety protection, patented transgenic traits, and patented native traits, including the terms and conditions of use found in the Pioneer TUA. The purchase of any Corteva Agriscience variety or trait is done so under license with certain limitations. By using the seed supplied in connection with a Pioneer Technology Use Agreement, you agree to the fact that the seed – and technology within that seed – includes subject matter owned by Corteva Agriscience, or licensed from a third party, that is protected under U.S. intellectual property laws. Under this contract, you agree to a single-commercial planting of the seed and agree to not bin run or save your seed.

WHY IS A TUA REQUIRED?

- A TUA is required for the purchase of any Pioneer® brand seed – all crops, biotech and non-biotech. The TUA serves as an agreement between the customer and Pioneer; demonstrating that the customer understands and agrees to follow all license terms, stewardship and applicable legal responsibilities related to their seed products.
- Even though some products do not contain biotech traits, the TUA protects the intellectual property associated with non-biotech products such as germplasm and other intellectual know-how and patents.
- The TUA grants a limited license for the grower to use/plant Pioneer brand seed containing Corteva Agriscience sourced technologies (including germplasm, non-biotech traits, and biotech traits) and produce a single commercial crop.
- The TUA requires growers to use and follow the applicable Product Use Guide (which can be obtained on the Pioneer website (www.pioneer.com/za)) and official product labels (seeds and herbicides).
- The TUA prohibits certain activities such as saving seed or the use of unauthorised herbicides on herbicide tolerant crops (where applicable).
- By abiding by your Pioneer Technology Use Agreement, you are enabling Pioneer to continue to invest in advances in genetics and technology that bring forward new research discoveries. These discoveries can/may ultimately help you increase production and meet new pest and production challenges.
- It is required by biotechnology laws and regulations for the supplier and purchaser who intend to use the technology to enter into a lawful agreement by signing a TUA.

The Pioneer TUA allows farmers to purchase and plant Pioneer brand products containing certain technology traits. Such an agreement should be signed every season and be handed over to the Pioneer sales professional immediately before seed can be issued.

The TUA also stipulates that:

- Any grower who has not signed a TUA must immediately notify Pioneer and make arrangements to sign the TUA or return the seed to the company.
- Licensed biotech seed products are to be used solely for planting a single commercial crop and shall not be exported for planting in another country or supplied to any other person for planting.
- Any purchase of licensed biotech seed products by a grower who is not a Pioneer licensed grower (i.e. did not sign a TUA) shall be void.

GROWING CONVENTIONAL AND BIOTECH CROPS

For decades, multiple agricultural systems have coexisted successfully around the world from production through supply chains. Over time, best practices to facilitate these different agricultural systems have developed and have been improved continuously to ensure that high-purity and high-quality seed and grain are available to support trade from various agricultural systems.

One example of such coexistence is the production of similar commodities in close proximity such as field maize, sweet corn, white maize and popcorn. Coexistence strategies should meet market requirements using science-based industry standards and management practices, and should be flexible to facilitate options and choices for growers and the food and feed supply chain. This flexibility should also include the ability of co-existence strategies to be modified as changes in products, markets or practices occur.

The ongoing success of coexistence strategies depended upon co-operation, communication, flexibility and mutual respect for each cropping system and among growers using these various systems. Over the years, growers have adapted to changes and innovations in agriculture by using new farm management practices, new technologies and other appropriate practices. It is incumbent upon a grower who is growing a crop to satisfy a particular market and to implement best practices to satisfy those market standards. By seeking to satisfy that market, the grower inherently agrees to use the appropriate practices to ensure the integrity and marketability of his or her crop in the market in which he or she seeks to market it. This is true, regardless of the particular market being served, whether it is white maize, sweet corn, organically produced corn or conventionally produced corn. In each of these cases, the grower is producing a crop supported by a special market price and therefore, assumes responsibility for meeting any applicable market specifications to receive the applicable premium price from that market. Even though the responsibility rests with the grower producing the crop for a particular market, it is each grower's responsibility to communicate with, and be aware of the planting intentions of his or her neighbours to gauge the need for any appropriate best management practices.

IDENTITY PRESERVED (IP) CROPS

IP crops are crops produced to meet the needs of specialised end-use markets. These crops are grown with a specific end use in mind, such as waxy, white and organic, amongst others, and should meet the defined requirements of that market. IP crops provide benefits for both the grower, with processor-paid incentives, as well as the end user. Growers who choose to preserve the identity of their crops to receive the additional end-use market value assume the responsibility of ensuring that their crops meet the contract specifications. To meet these specifications, the specialised end-use agricultural industry has developed generally accepted IP agricultural practices to manage IP production, as further described below. Accordingly, IP growers have the responsibility to implement any processes that are necessary to meet quality specifications. The special care required for IP crop production generally causes an increase in production costs that, in turn, causes an increase in the value of the goods sold.

MAINTAINING THE INTEGRITY OF IP CROPS

In order to preserve the identity of IP crops, thorough clean-out procedures should be implemented before and after contact is made with the IP crop. This may include cleaning areas in seed storage bins, seed boxes (hoppers), transportation vehicles, combines and harvesters. Thorough clean-out procedures should be upheld throughout all aspects of the planting procedure, which include storage, transportation, planting and harvesting. Additionally, growers of IP crops should consider steps to minimise the potential for crosspollination given the generally recognised and accepted occurrence of the movement of incidental amounts of pollen. As previously stated, communication between growers is key in determining the best agricultural management practices that should be implemented to maintain the identity of IP crops.

SEED TREATMENT STEWARDSHIP

Seed treatments, including fungicides, insecticides, nematicides and amendments, play a critical role in agriculture and the production of a healthy crop. In addition to managing early-season pests and diseases, they serve as a viable alternative to foliar and soil applications in some cases.

Seed treatment management and responsible stewardship play a vital role in sustaining our environment, while maximising crop health. Responsible stewardship practices help maintain seed and seed treatment integrity, which keeps the active ingredient on the seed to achieve the maximum crop health benefit for the investment. In addition, these practices help minimise the potential for adverse effects on producers and the environment, including pollinators which may be present at the time of planting.

The following best management practice suggestions are recommended:

HANDLING

- Always read and follow the label directions and recommendations for proper handling and use of treated seed and seed treatments.
- Use personal protection equipment (PPE) as recommended on the product label or seed tag.
- Follow all safety precautions as indicated on the label or seed tag.
- Transport and transfer treated seed safely and in a manner that minimises the risk of spillage and dust.

PLANTING

- Always follow planter manufacturer recommendations and avoid excess use of talc and graphite.
- Eliminate flowering plants and weeds in and around the field prior to planting.
- Limit dust movement from seed packages containing seed treatment. For example, consider factors such as wind speed and direction and avoid shaking the bottom of the treated seed bag when filling planting equipment.
- Do not transfer treated seed next to active hives, at field margins, and adjacent to flowering plants and vegetation.
- At planting, be aware of honeybees and hives located near the field, taking note of nearby hives and flowering plants and weeds, which could be attractive to pollinators and communicate with beekeepers when possible.
- For pneumatic planters, direct the exhaust towards the soil surface.
- Ensure all seeds are planted or incorporated into the soil at a proper planting depth.

DISPOSAL AND CLEAN-UP

- Follow national and local regulations for the disposal or storage use of unused seed.
- Properly dispose of unused treated seeds, seed packaging or containers in accordance with national and local regulations and the container management return policy as advised by CropLife South Africa.
- Clean the planting equipment in a manner that minimises dust.
- Avoid cleaning the planting equipment next to active hives, at field margins, and adjacent to flowering plants and vegetation.

GUIDE FOR THE USE OF BIOTECHNOLOGY PRODUCTS

This guide contains information for proper Insect Resistance Management for Pioneer® brand maize that contains the Pioneer Insect Protection Technologies – also referred to as the Biotech Traits. The Biotech Traits include:

NB:

Table 1: The protective proteins (insect protection and herbicide tolerance traits) and the genetic material necessary for the expression of protective proteins are approved as safe for humans, animals and the environment in terms of the *GMO Act (Act No. 15 of 1997)*. The products are protected by one or more patent rights.

PRODUCTS

PRODUCT USE STATEMENT

Bt Trait (corn borer technology)

The product's Bt trait technology contains the *cry1A(b)* gene derived from *Bacillus thuringiensis var. kurstaki*. The *cry1A(b)* protein produced in these maize plants provides control of susceptible stalk borers, *Busseola fusca* and *Chilo partellus*.

YieldGard® Maize 2 technology (MON89034)

The product YieldGard® Maize 2 technology contains *cry1A.105* and *cry2Ab2* genes from *Bacillus thuringiensis var. kurstaki*. *Cry1A.105* and *Cry2Ab2* proteins produced in this maize provide control of susceptible stalk borers, *Busseola fusca* and *Chilo partellus*.

YieldGard® Maize 2 and the YieldGard® Maize 2 logo design are registered trademarks of Monsanto Technology LLC.

Roundup Ready® Maize 2 technology (NK603)

The product Roundup Ready® Maize 2 technology contains *cp4 epsps* gene from *Agrobacterium strain* CP4. Roundup Ready® Maize 2 technology produces CP4 EPSPS protein which provides tolerance to registered glyphosate formulations.

All herbicides used with this product must be properly registered with the Department of Agriculture, Land Reform and Rural Development in terms of the Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act No. 36 of 1947 (as amended) and used in accordance with herbicide registered label and recommendations and all other applicable laws.

WARNING: The Roundup Ready® gene will safeguard this hybrid ONLY against applications of approved glyphosate products such as Roundup PowerMax® (L 6702), when applied at labelled rates. The Roundup Ready® gene WILL NOT safeguard this hybrid against applications of other herbicides which require a different herbicide resistance gene. Always read and follow herbicide label directions prior to use. Roundup Ready®, the Roundup Ready® logo and Roundup PowerMax® are registered trademarks of Monsanto Technology LLC.

PowerCore™ technology
(MON89034xTC1507xNK603)

The product PowerCore™ technology trait produces the active ingredients *Cry1A.105*, *Cry2Ab2*, and *Cry1F*, proteins from *Bacillus thuringiensis* which provides good control over spotted stalk borer (*Chilo partellus*) and the maize stalk borer (*Busseola fusca*). In addition, this seed contains Roundup Ready® Maize 2 technology which provides tolerance to registered glyphosate-based herbicides. Product responses may vary by location, pest population, environmental conditions, and agricultural practices. This product is protected by one or more patent rights. PowerCore™ multi-event technology developed by Corteva Agriscience and Monsanto. PowerCore™ is a trademark of Monsanto Technology LLC.

Roundup Ready® Maize 2 is a registered trademark of Monsanto LLC.

Always read and follow herbicide label directions prior to use. All herbicides used with this product must be properly registered with the Department of Agriculture, Land Reform and Rural Development in terms of the Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act No. 36 of 1947 (as amended) and used in accordance with herbicide registered label and recommendations and all other applicable laws.

WARNING: The Roundup Ready® gene will safeguard this hybrid ONLY against applications of approved glyphosate products such as Roundup PowerMax® (L 6702), when applied at labelled rates. The Roundup Ready® gene WILL NOT safeguard this hybrid against applications of other herbicides which require a different herbicide resistance gene. Always read and follow herbicide label directions prior to use.

THE ACCIDENTAL APPLICATION OF INCOMPATIBLE HERBICIDES TO THIS HYBRID COULD RESULT IN TOTAL CROP LOSS.

IMPORTANT – READ BEFORE PLANTING

WHAT ARE PIONEER INSECT PROTECTION TECHNOLOGIES?

Pioneer insect protection technologies and/or the licensed Biotech Traits allow farmers to plant Pioneer brand maize with built-in protection to control important stalk-borer insect pests. Pioneer brand maize with the insect protection technology confers protection against susceptible *Busseola fusca* (maize stalk borer) and *Chilo partellus* (spotted stalk borer).

Note: These insects will be referred to collectively as 'stalk borers' throughout the balance of this document.

EFFECTIVENESS OF PIONEER® BRAND MAIZE HYBRID WITH THE BIOTECH INSECT PROTECTION TECHNOLOGY

STALK BORER TECHNOLOGY

The *Busseola* stalk borer is not easily controlled. Please note that, in general, the population pressure of stalk borers is higher during the reproductive phase of the plant (window period – VT to R1 stage) compared with the first generation that infests the plants in an earlier growing phase. Stalk borer resistance is therefore scored lower for the window period compared to the first generation.

Effective management of maize stem borer requires scouting between the V3 and VT growth stages, as young maize is highly susceptible to severe damage. The pest overwinters as larvae in the base of the previous season's maize stalks, making stubble a critical reservoir for year-to-year infestations. Following the first spring rains, these larvae pupate and emerge as moths, initiating a nine-week life cycle. As a result, the planting date determines whether a crop will face an attack from the first or the second generation of stem borers.

It is important to carefully monitor fields for all pests to determine whether treatment with a pest control method is needed. Scouting techniques and remedial pest control treatments should address the fact that larvae must hatch and feed before incorporated plant protection technologies have an effect on the pests. Scouting should be performed regularly, particularly after periods of heavy or sustained egg laying (especially during bloom), to determine whether larval survival is significant in a particular field. If unexpected damage is observed, contact your Pioneer agronomist.

INSECT RESISTANCE MANAGEMENT (IRM)

WHAT IS IRM?

Insecticide Resistance Management (IRM) program is an essential part of good stewardship. The aim of an IRM program is to reduce the probability of target insects developing increased resistance to the insecticidal Bt proteins, thus maximizing the longevity and effectiveness of these valuable traits in an environmentally conscious way. Sustainable preservation of this technology places individual responsibility on all role players in the seed distribution system – from the seed supplier to the grower planting the seed. Additionally, IRM is a legal obligation for all as stipulated in the commercial permit granted by South Africa regulatory authorities for all Bt corn products.

THE IMPORTANCE OF INSECT RESISTANCE MANAGEMENT (IRM)

Compliance with IRM requirements is a stewardship obligation and is critical to maintaining the longevity and effectiveness of maize with Biotech Traits. When maize with licensed biotech insect protection technology is the only crop being cultivated, only the rare resistant individuals of an insect pest population will survive and mate with each other, producing resistant offspring. To delay the development of resistance within insect pest populations to maize with biotech insect protection technology, growers planting Pioneer® brand maize with the technology are required to also plant a separate area of Pioneer brand maize without the technology, known as a 'refuge'.

WHAT IS A REFUGE?

A refuge is a block or strip of maize without biotech insect protection technology. The primary purpose of a refuge is to maintain a population of stalk borers that are susceptible to the biotech insect protection technologies. This increases the probability that the rare resistant pest individuals emerging from fields planted with the biotech insect protection technology will mate with susceptible pest individuals emerging from the refuge. This will result in pest offspring that are susceptible to biotech insect protection technologies. Please refer to *Figure 2* which illustrates this concept.

REFUGE MANAGEMENT FOR PIONEER® BRAND MAIZE WITH BT INSECT PROTECTION TECHNOLOGY

Table 2: Planting a refuge is a requirement for growing the technology and is a primary component of IRM. There are two acceptable refuge options:

PRODUCT	REFUGE OPTIONS	INSECT PROTECTION
Bt Trait	<p>✓ 95% Biotech insect protection technology with an accompanying 5% refuge – with this option, no chemical control for targeted insects is permitted on the refuge areas</p> <p style="text-align: center;">or</p> <p>✓ 80% Biotech insect protection technology with an accompanying 20% refuge – with this option, chemical control of targeted insects is permitted in refuge areas if economic thresholds are met.</p>	<p>- <i>Busseola fusca</i> (maize stalk borer)</p> <p>- <i>Chilo partellus</i> (spotted stalk borer)</p>
YieldGard® Maize 2 technology (MON89034) and YieldGard® Maize technology (MON810)		
PowerCore™ technology		

- Maize refuge options include (i) hybrids without stalk borer biotech insect protection technologies, (ii) hybrids with Roundup Ready® Maize 2 technology, and (iii) conventional maize.
- Pioneer® brand maize with stalk borer biotech insect protection technology and refuge hybrids must be of similar maturity.
- The refuge MUST be planted within seven (7) days AND under the same growing conditions as the hybrid with stalk borer biotech insect protection technologies. For example, if the hybrid with any of the insect protection technologies is planted under irrigation, the refuge must also be under irrigation and planted within 7 days of planting the stalk borer insect protection technology hybrid.
- The refuge area must be closer than 400m from the furthest point of the field containing Pioneer brand maize with any of the stalk borer biotech insect protection technologies (as shown on *Figure 2*).
- **A neighbour's field does NOT qualify as a refuge.**
- Mixing of seed containing stalk borer biotech insect protection technologies with seed without the stalk borer trait is NOT an acceptable refuge design.
- Biotech insect protection technologies and refuge area should not touch/cross over.
- Size requirement of each refuge area is a minimum of 6 rows.
- The refuge must be planted on at least two sides of the Bt field.
- Planter bins should be properly cleaned before switching from seed containing stalk borer biotech insect protection technologies to seed without the stalk borer trait, and vice versa.
- Avoid the presence of volunteer plants with stalk borer biotech insect protection technologies in the refuge area.
- Field monitoring and frequent field scouting:
 - ✓ Monitoring Bt fields for insect resistance development is an integral part of an IRM plan. If resistant populations are detected early, alternative control measures can be implemented to reduce the population and halt the spread of resistance.
 - ✓ Immediately report to the authorised Pioneer sales professional if unexpected damage is observed with biotech insect protection technologies.
 - ✓ Apply only registered products when advised.

REFUGE MANAGEMENT

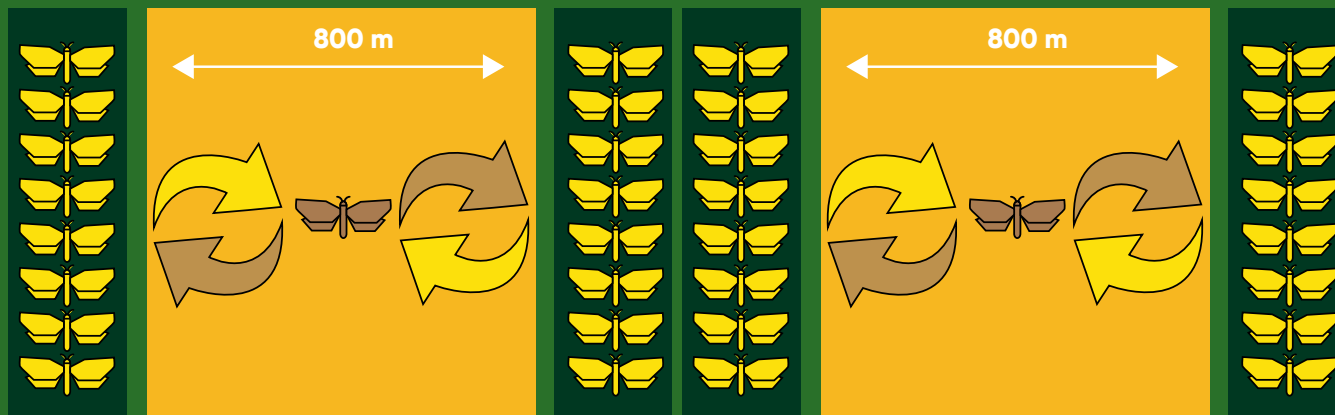
FOR PIONEER® BRAND MAIZE WITH Bt INSECT PROTECTION TECHNOLOGY

PLANT THE CORRECT REFUGE AREA FOR BT-MAIZE

STEP 1: Choose the best option for your farm.

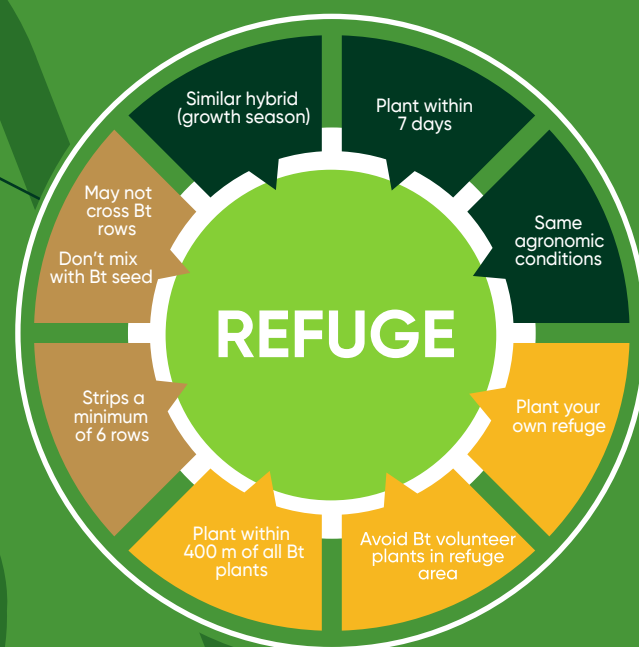
OPTION A: 95% Bt, 5% non-Bt
No chemical control of stalk borer in refuge.

OPTION B: 80% Bt, 20% non-Bt
Chemical control of stalk borer in refuge allowed.



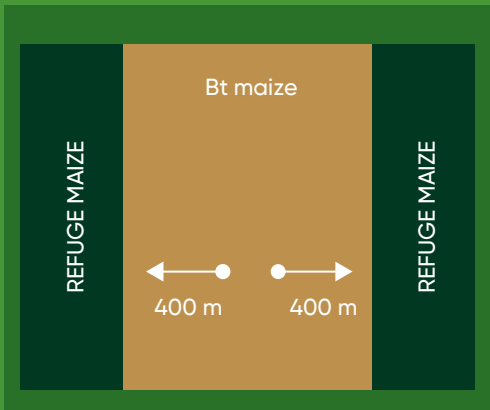
STEP 2: Regardless of the option chosen above, your refuge must be planted in the following manner:

STEP 3: Regularly monitor and inspect (weekly) your Bt crop and immediately contact your seed representative/agent if stalk borer infestation is observed in the Bt maize.

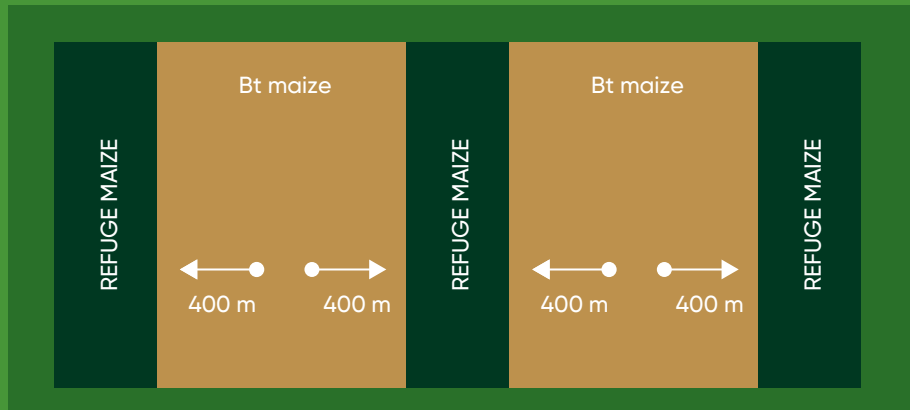


CORRECT LAYOUT OF THE REFUGE AREA

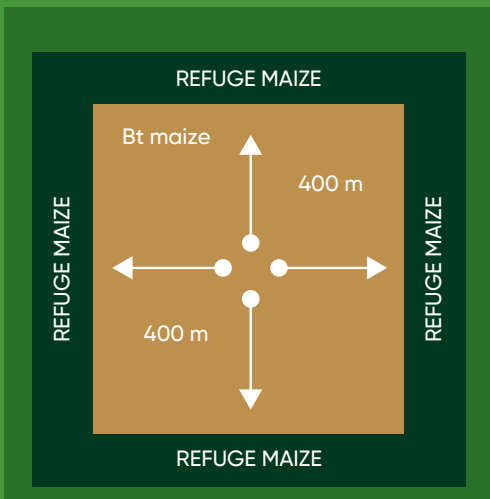
BLOCK POSITIONING



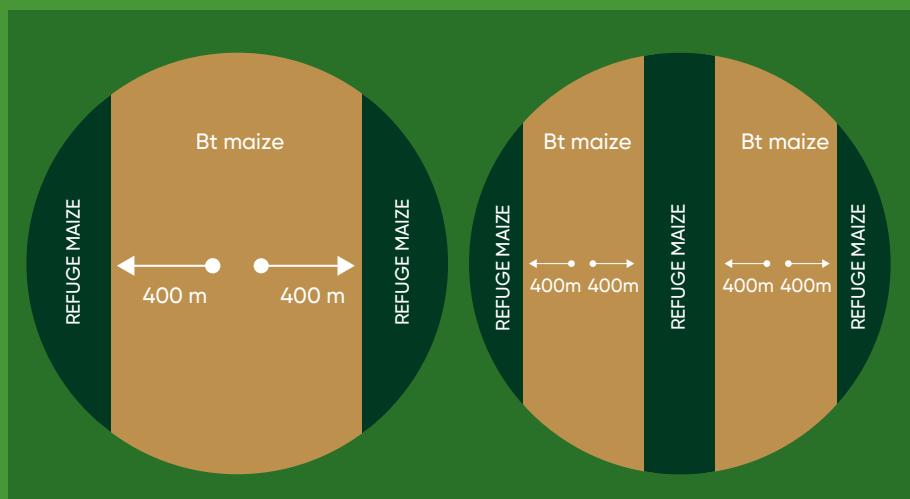
STRIP POSITIONING



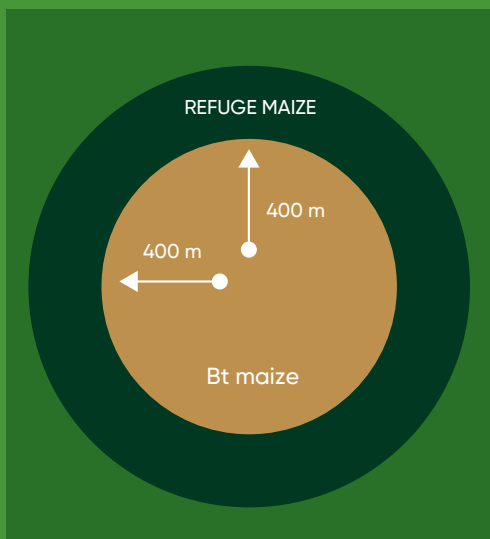
PERIMETER POSITIONING



PIVOT POSITIONING



BORDERING OF PIVOT



Pivot Size		Minimum number of rows required per row width in m (5% refuge)					
Radius (m)	ha	0,60 m	0,75 m	0,91 m	1,00 m	1,20 m	1,50 m
178	10	8	6	6	6	6	6
252	20	11	9	7	6	6	6
309	30	13	10	9	8	7	6
357	40	15	12	10	9	8	6
*399	50	17	13	11	10	8	7
*437	60	18	15	12	11	9	7
*472	70	20	16	13	12	10	8
*505	80	21	17	14	13	11	9
*535	90	23	18	15	14	11	9
*564	100	24	19	16	14	12	10
*592	110	25	20	16	15	12	10
*618	120	26	21	17	16	13	10

BEST PRACTICES FOR FOLLOWING INTEGRATED PEST MANAGEMENT (IPM)

Integrated Pest Management (IPM) enables growers to adapt their approach to the management of weeds, insects, and diseases to the specific conditions within their fields, in lieu of a generic pest management program. IPM involves the responsible use of biotech traits, crop protection products, and cultural management practices. The value of any biotech trait or insecticide spray programme can be enhanced when used within the context of an IPM program.

Pioneer recommends implementing the following IPM best practices to maximise the value of biotech traits:

- Rotation of crops and biotech traits to prevent the build-up of pest populations over multiple seasons and the evolution of resistance within pest populations.
- The use of seed varieties, planting technology, and seedling rates that are appropriate for a given crop in a particular geographic area.
- Monitoring of pest populations throughout the growing season to determine when treatment for pest control is necessary (i.e., when pest damage exceeds action thresholds).
- Using a combination of pest management practices to control pest populations.
- Ensuring the appropriate crop sanitation practices are conducted throughout the growing season and the destruction of crop residues is completed promptly after harvesting.
- Minimizing over-wintering populations of pests through soil management practices.
- The use of multiple modes of action of crop protection products within a season to reduce the likelihood of pest resistance development.
- Regular scouting of the crops containing biotech insect protection technologies for unexpected damage caused by *Busseola fusca* or *Chilo partellus*. (Immediately report any occurrence of unexpected damage to an authorised Pioneer sales professional.)



IPM SPRAY PROGRAMME

Pioneer implements an IPM programme to help farmers maximise the yield of their high yield potential Pioneer® brand maize hybrids with Bt trait stalk borer technology. Note that the IPM programme is not applicable to YieldGard® Maize 2 (MON89034 maize) and PowerCore™ technology fields.

To qualify for the benefits of the programme, customers need to adhere to the following:

- Sign the Technology Use Agreement (TUA) for every purchase and return the signed copy to Pioneer.
- Refuge areas must be planted according to the prescribed guidelines contained in the TUA and this brochure.

NON-COMPLIANCE with any of the above requirements will disqualify the farmer from the IPM programme incentives.

Growers must take note of the following conditions applicable to the Pioneer IPM Programme

- Insecticide sprays are implemented at >5% damage (before the tassel formation growth stage).
- The IPM spray programme DOES NOT apply to MON89034 (YieldGard® Maize 2 technology) maize or PowerCore™ technology maize.
- If unexpected insect damage is observed on MON89034 or PowerCore™ technology maize plants, a Pioneer sales professional or agronomy team member must be contacted to provide advice and appropriate remedial actions.
- Only insecticide costs are covered, and NO application costs will be covered by the spray programme.
- This programme covers one spray per season (not per target pest).

Any person who participates in the IPM insecticide spray programme must first enrol for the programme and receive procedure manuals. Please consult your seed sales agent for additional information regarding specific details (protocols) of the IPM programme.



BEST PRACTICES FOR MANAGING HERBICIDE-TOLERANT CROPS

IMPORTANT – READ BEFORE PLANTING

WHAT IS HERBICIDE-TOLERANT SEED TECHNOLOGY?

Herbicide-tolerant crops can tolerate herbicide applications at product recommended application rates that will kill non-herbicide-tolerant Pioneer® brand maize or varieties of the same crop species. Crops with traits for herbicide tolerance allow farmers to apply herbicides to their crops that they would otherwise be unable to utilise, without causing death or unacceptable injury to that crop.

IMPORTANCE OF MANAGING HERBICIDE-TOLERANT CROPS AND WEED RESISTANCE TO HERBICIDES

Properly managing herbicide-tolerant crop technology is important to preserve the long-term effectiveness and value of the tolerant crop seed and its corresponding herbicides. Growers utilising herbicide programmes that include herbicide-tolerant crops can do so on an annual basis provided the technology is managed effectively.

BEST PRACTICES

- The use of herbicide-tolerant crops does not limit the grower to use only one herbicide product. Conventional herbicides can and should still be part of the grower's overall weed management system.
- Limit the number of applications of a single herbicide or herbicides from the same mode of action family within a single growing season.
- Use mixtures or sequential treatments of an effective alternative mode of action to control target weeds, as recommended on the label(s).
- Apply herbicides at recommended dosages and at the recommended stage of weed growth, as stated on the label(s).
- Use alternative weed management practices such as crop rotation, mechanical cultivation, delayed planting and weed-free crop seed.
- Clean equipment before moving between fields to minimise the dispersion of weed seed.
- Scout fields after herbicide application to detect weed escapes or shifts. If a potentially resistant weed or weed population has been detected, use available control methods to avoid seed dispersion in the field. Notify your Pioneer Agronomist.

MANAGING VOLUNTEER HERBICIDE TOLERANT CROPS

The seed of some crops can escape harvest, germinate the following year and become 'volunteer weeds' in a rotational crop. This can happen regardless of whether the crop seed was herbicide-tolerant or not. Many tools are available for managing herbicide-tolerant volunteers, but advanced planning is advised to ensure the greatest adaptability and success.

The best strategies for managing herbicide tolerant volunteers are crop rotation and rotation of herbicides with different modes of action. The proper adjustment of harvesting equipment and the cultivation and tillage management will also help reduce volunteer plants from previous crops. Plan at least a year ahead when planting a herbicide-tolerant crop to make sure you have a weed management plan that will control any herbicide-tolerant volunteers, using alternative herbicides with different mode-of-action families and/or tillage for the next crop.

HERBICIDE RESISTANT WEEDS

Grower awareness and proactive management of herbicide resistant weeds are part of a successful weed control program. Suspected herbicide resistance is defined as the situation where the following three indicators occur at a site or location:

- Failure to control a weed species normally controlled by the herbicide at the dose applied (as per label recommendation), especially if control is achieved on adjacent weeds.
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Possible indicators of weed resistance to herbicides include achieving good control of all but one of the labelled weed species in the field with the herbicide, and/or failure of repeated applications of the same herbicide to control only that weed species in a field.

Take note that weed control failures can have many causes that are not necessarily related to herbicide resistance. Lack of rainfall to activate pre-emergence herbicides, rainfall right after post-emergence applications that wash the herbicide off the plant, cool temperatures, slow growth reducing herbicide activity in the plant, improper application timing, or improperly calibrated application equipment are amongst the many causes of less-than-expected herbicide performance. If you suspect a weed control failure is caused by weed resistance to an herbicide, you should first contact your herbicide retailer's or herbicide manufacturer's representative and your local Pioneer agronomist and conduct a thorough investigation that can eliminate other more common causes of poor weed control. Your local Pioneer agronomist will assist you with the additional steps that will be required if weed resistance to the herbicide is believed to be the issue.

If you have any questions after reviewing this information, please contact your authorised seed dealer or agronomist.

The logo for YieldGard MAIZE 2 features the word "YieldGard" in a bold, black, sans-serif font with a registered trademark symbol. Below it, "MAIZE 2" is written in a red, bold, sans-serif font.The logo for Roundup Ready MAIZE 2 features a red and grey stylized graphic above the words "Roundup Ready" in a bold, black, sans-serif font. Below that, "MAIZE 2" is written in a red, bold, sans-serif font.The logo for POWERCORE features the word "POWER" in a bold, green, sans-serif font and "CORE" in a bold, yellow, sans-serif font, both with a registered trademark symbol.

Pioneer® brand products are provided subject to the terms and conditions of purchase which are part of the labelling and purchase documents.

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate.

Roundup Ready® Maize 2 and YieldGard® Maize 2 are registered trademarks of Monsanto Technology LLC. PowerCore™ multi-event technology is developed by Corteva Agriscience and Monsanto. PowerCore™ is a trademark of Monsanto Technology LLC.

YELLOW MAIZE

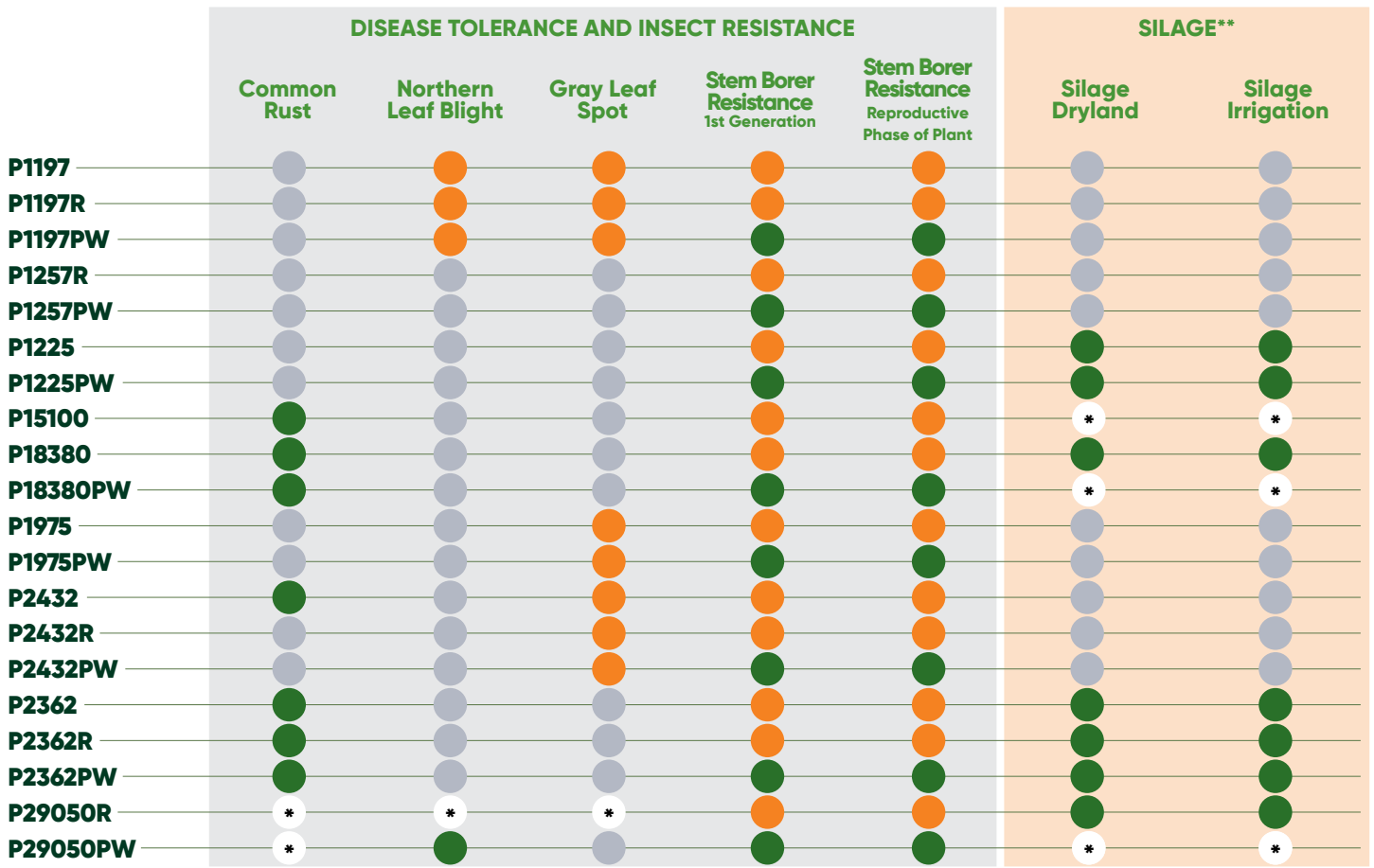


SEED INFORMATION					CHARACTERISTIC RATINGS		
Products	Technology	CRM	Irrigation	Dryland	Prolificacy	Productive Tillers	Standability
P1197		111	Yes	No	●	●	●
P1197R	RR2	111	Yes	No	●	●	●
P1197PW	PW	111	Yes	No	●	●	●
P1257R	RR2	112	Yes	No	●	●	●
P1257PW	PW	112	Yes	No	●	●	●
P1225		114	Yes	Yes	●	●	●
P1225PW	PW	114	Yes	Yes	●	●	●
P15100		115	No	Yes	●	●	●
P18380		118	No	Yes	●	●	●
P18380PW	PW	118	No	Yes	●	●	●
P1975		120	No	Yes	●	●	●
P1975PW	PW	120	No	Yes	●	●	●
P2432		122	No	Yes	●	●	●
P2432R	RR2	122	No	Yes	●	●	●
P2432PW	PW	124	No	Yes	●	●	●
P2362		123	No	Yes	●	●	●
P2362R	RR2	123	No	Yes	●	●	●
P2362PW	PW	124	No	Yes	●	●	●
P29050R	RR2	129	No	Yes	●	●	●
P29050PW	PW	129	No	Yes	●	●	●

RR2 = Roundup Ready® Maize 2-gene
 PW = PowerCore™ technology

● GOOD ● AVERAGE ● WEAK





Silage** - based on quality data - not bulk

● HIGH ● AVERAGE ● LOW ⊛ INSUFFICIENT DATA



WHITE MAIZE

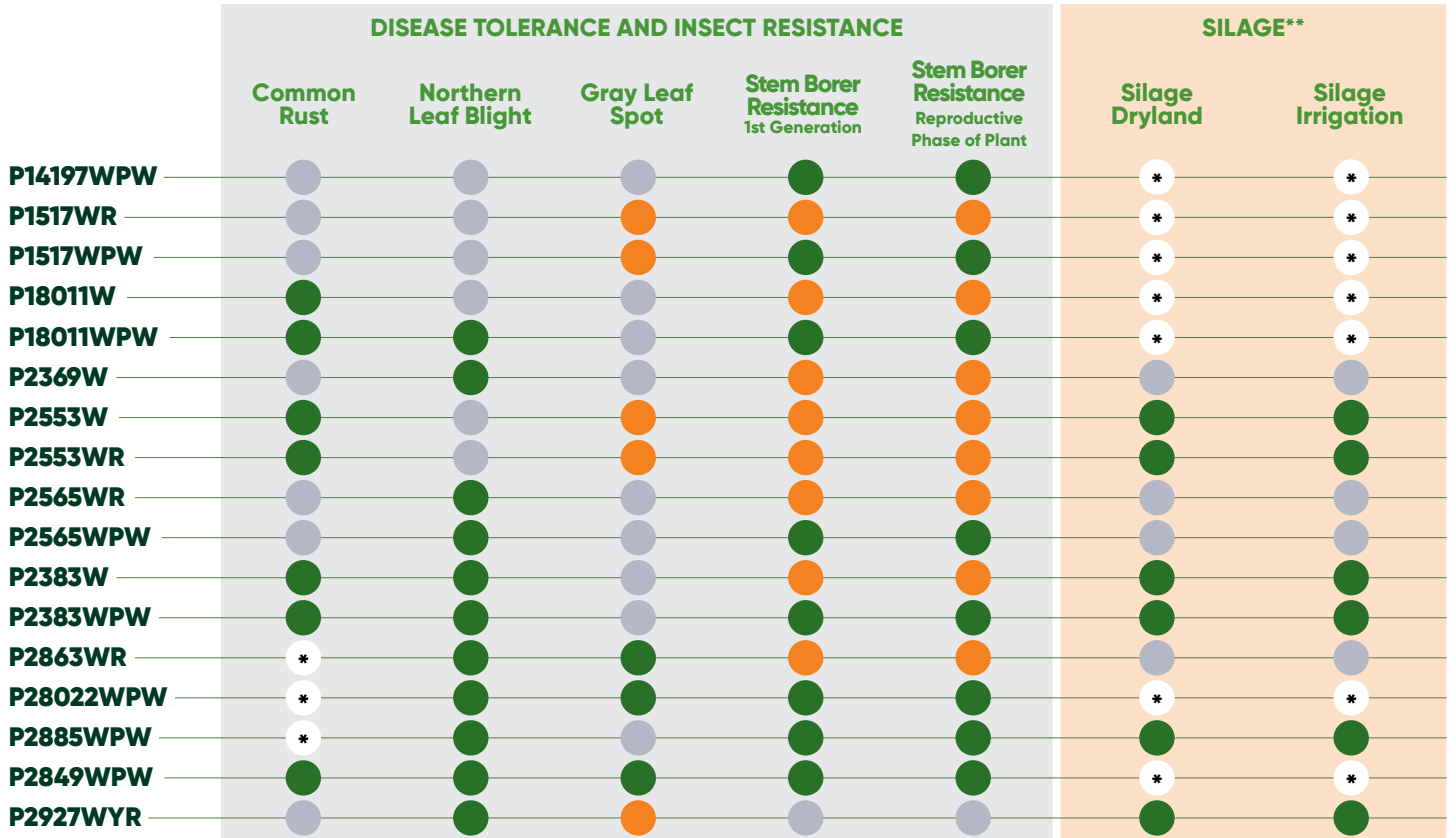


SEED INFORMATION						CHARACTERISTIC RATINGS		
Products	Mon810	Technology	CRM	Irrigation	Dryland	Prolificacy	Productive Tillers	Standability
P14197WPW		PW	115	Yes	No	●	●	●
P1517WR		RR2	116	Yes	No	●	●	●
P1517WPW		PW	116	Yes	No	●	●	●
P18011W			118	No	Yes	●	●	●
P18011WPW		PW	118	No	Yes	●	●	●
P2369W			121	Yes	Yes	●	●	●
P2553W			123	No	Yes	●	●	●
P2553WR		RR2	123	No	Yes	●	●	●
P2565WR		RR2	125	No	Yes	●	●	●
P2565WPW		PW	125	No	Yes	●	●	●
P2383W			127	No	Yes	●	●	●
P2383WPW		PW	127	No	Yes	●	●	●
P2863WR		RR2	128	No	Yes	●	●	●
P28022WPW		PW	128	No	Yes	●	●	●
P2885WPW		PW	128	No	Yes	●	●	●
P2849WPW		PW	128	No	Yes	●	●	●
P2927WYR	Mon810	YG, RR2	129	No	Yes	●	●	●

RR2 = Roundup Ready® Maize 2-gene YG = YieldGard® stem borer technology PW = PowerCore™ technology

● GOOD ● AVERAGE ● WEAK





Silage** - based on quality data - not bulk

● HIGH ● AVERAGE ● LOW ⊕ INSUFFICIENT DATA

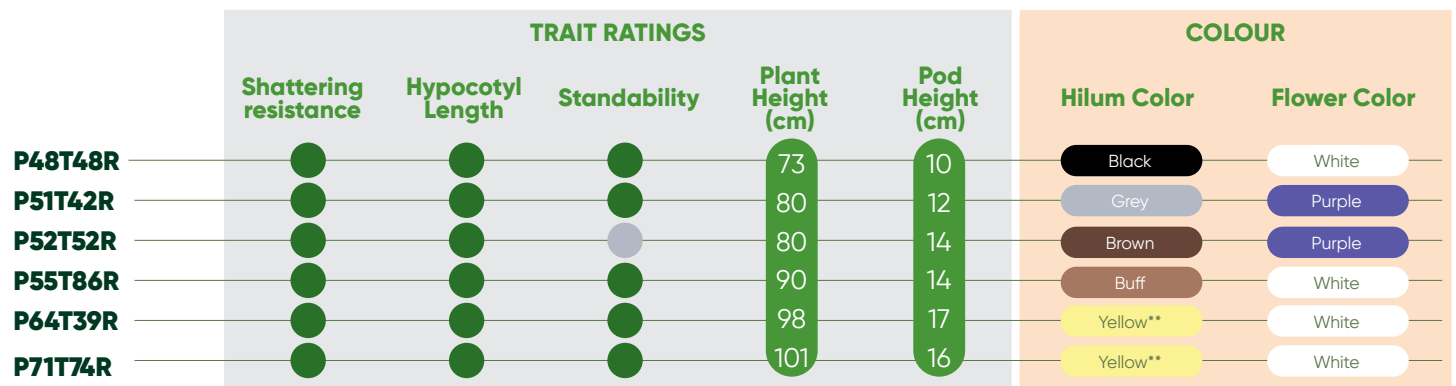


SOYBEANS



SEED INFORMATION							
Products	Technology	VRM	Irrigation	Dryland	Relative Days to 50% Flower	Relative days to Harvest Ready	Habit of growth
P48T48R	Glyphosate-tolerant	4.8	Yes	Yes	42-63	111-138	Indeterminate
P51T42R	Glyphosate-tolerant	5.1	Yes	Yes	50-70	134-170	Indeterminate
P52T52R	Glyphosate-tolerant	5.2	Yes	Yes	51-74	134-170	Indeterminate
P55T86R	Glyphosate-tolerant	5.2	Yes	Yes	54-76	141-170	Indeterminate
P64T39R	Glyphosate-tolerant	6.4	Yes	Yes	50-72	132-154	Indeterminate
P71T74R	Glyphosate-tolerant	7.1	Yes	Yes	55-95	138-190	Indeterminate

● SINGLE SEASON



** VThe expression of the yellow hilum color may vary from colourless to light brown due to the influence of environmental conditions within the production area.

● GOOD ● AVERAGE ● WEAK

All soybeans are compatible with the following Rhizobia strain groups:

Group A: Strain WB74 | Group B: Strain 532C | Group C: Strain 5080 | Group D: Strains USDA110 & 442 | Group E: Strain 5079



SUNFLOWERS

SEED INFORMATION				CHARACTERISTIC RATINGS			
Products	Relative Days to 50% Flower	Relative Days to Physiological Ripeness (R9)	Plant Height (cm)	Head: Curvature & Placement	Head: Form	Yield Potential	Uniformity
P 65LP65**	70-75	120-128	190-220	Average	Good	Good	Good
P 64LP175**	62-68	108-118	170-180	Good	Good	Good	Average
P 65LL25	69-72	115-125	175-195	Good	Good	Good	Good



**The unique Clearfield Plus symbol is a registered trademark of BASF.

● GOOD ● AVERAGE ● WEAK

	CHARACTERISTIC RATINGS	DISEASE RESISTANCE				
	Seed Oil Concentration %	***Brown Rust	*** White Rust	Root and Stem Disease	Alternaria	Standability
P 65LP65**	38-42%	Good	Average	Good	Good	Good
P 64LP175**	41-44%	Good	Good	Good	Good	Good
P 65LL25	42-46%	Good	Good	Good	Good	Good

***Brown Rust (*Puccinia Helianthi*) ***White Rust (*Albugo Tragopogonis*)

● HIGH ● AVERAGE ● LOW



MAIZE SILAGE:

THE EVALUATION OF DIFFERENT HYBRIDS

WHAT MAKES A SILAGE HYBRID EXCEPTIONAL?

The expectations placed on a good silage hybrid can differ greatly because of the producer's needs for use – especially in dairies and other animal feeding schemes. However, there are a few key results that producers, animal nutritionists, and contractors focus on for success:

1. **High dry material yield per hectare**
2. **High starch yield per Kg Dry Mass (DM)**
3. **High Total Digestible Nutrients (TDN*)**

** TDN is influenced by low fiber levels, high digestibility of fiber fractions and a high starch content – all factors that directly contribute to better animal performance.*

WHAT DOES THE DATA SAY?

Several hybrids were evaluated over several seasons. The results show highly significant differences in the following parameters:

- Dry Matter (DM)
- Neutral Detergent Fiber (NDF)
- NDF 30-hour digestibility
- Starch content
- Total Digestible Nutrients (TDN)
- Milk per ton – a practical measure for dairy producers
- Milk per hectare – the overall calculation that is made when biomass yield and quality aspects of the hybrid are combined.

Milk per ton and milk per hectare are valuable indicators of the economic value of silage in dairy production systems.



NEW INSIGHTS AND PRACTICE-BASED RECOMMENDATIONS

- NDF digestibility is a critical factor in the utilization of fiber by ruminants. A high NDFD (after 30 hours) indicates better utilization of the crude fiber component.
- Ensiling was excellent across all hybrids tested – a testament to good practices and effective protocols.
- Yellow maize vs white maize? The color of the maize is less important than the performance. If a white hybrid delivers better yield and nutritional value on your farm, it is the right choice.

WHAT DOES THIS MEAN FOR YOU?

When you choose a silage hybrid, focus on those that:

- Deliver consistently high yields.
- Have increased digestible starch content.
- Make economic sense in your specific production environment.

NORMS OF THE DIFFERENT PARAMETERS MEASURED IN THE LABORATORY:

Measured Objectives	Under Norm	On Norm	Above Norm
Standard Fiber			
Neutral Detergent Fiber (NDF)	<37%	37 – 42%	> 43%
Starch	<27%	27 – 39%	>39%
Crude Protein (CP)	<6.5%	6.5 – 9.2%	>9.2%
Total Digestible Nutrients (TDN)	<65%	65 – 72%	>72%

● ACCEPTABLE ● STRENGTH

- Pioneer conducts annual silage trials to compare hybrids with the already known hybrids from the Pioneer package.
- All the hybrids tested in the table below showed good silage characteristics, however, how each one will be applied will differ, like the needs of the farmer or producer differ.
- Plant population plays a big role in the bulking ability of each hybrid, higher plant populations from the trials do not always produce higher yields.
- Speak to your Pioneer agronomist to make sure that the correct hybrid is chosen and that it is planted at the right plant population.

HYBRID PERFORMANCE TABLE

Hybrid	CRM	Bulk Yield	Starch %	TDN	NDF (organic material) % DM	Milk/Ton Dry	Milk/Ha
YELLOW MAIZE							
P1225 platform	114	S	S	S	S	S	S
P1788 platform	117	S	S	S	S	SS	SS
P18380	118	S	S	S	S	SS	SS
P2362 platform	123	S	S	S	S	S	S
P29050R	129	SS	S	S	S	S	S
WHITE MAIZE							
P2553 platform	123	S	S	S	S	S	S
P2383 platform	127	SS	S	S	S	S	S
P2885WPW	128	S	S	S	S	S	S
P2927WYR	129	SS	A	S	A	S	S

● ACCEPTABLE ● STRENGTH ● SUPER STRENGTH

Note: For more information on the agronomical characteristics of each hybrid, refer to the product table pages.

TERMS AND CONDITIONS

- The above is provided for informational purposes only. Contact your Pioneer sales agent for more information and suggestions regarding your practices.
- Product performance is variable and depends on many factors such as moisture and heat stress, soil type, management practices and environmental stress, as well as disease and pest pressure.
- Individual results may vary.
- Recommendations in this report are made in good faith and are based on the samples analyzed. No responsibility can be accepted for loss of production or otherwise related to a possible negative aspect of any selected hybrid, or any silage growing ability on the farm.

ACKNOWLEDGEMENTS AND COLLABORATION

- Data collection and processing from the trials was done in collaboration with *AgSci Unlimited Silage Consultancy*, www.agsci.co.za, unlimited@agsci.co.za
- Farmers and contractors.

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Caria Grobler | Marketing Manager | 063 784 8129 | caria.grobler@pioneer.com

KWAZULU-NATAL / EASTERN CAPE

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	JACQUES MINNAAR	066 305 2461
AGRONOMIST	HW BEEKEN	082 698 8117
BERGVILLE / WINTERTON	BERNIC BOTHA	073 452 1847
BERGVILLE / WINTERTON	ERIC HEINECKEN	083 468 0619
DUNDEE	FRIKKIE BESTER	082 323 4305
GREYTOWN	SHAUN CARROLL	083 231 3962
IXOPO / CREIGHTON / KZN MIDLANDS	ROGER MANN	083 634 4367
PIET RETIEF	SAREL NIEUWENHUIZEN	082 680 9198
SWARTBERG / KOKSTAD	PHILIP MORTLOCK	082 466 1120
UGIE / MACLEAR / ELLIOT	CRAIG LINDSAY	083 276 1202
VRYHEID / PAULPIETERSBURG	AP KEEVE	083 679 1763

MPUMALANGA

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	GERHARD MARAIS	082 806 7931
AGRONOMIST	ROELOF LE ROUX	083 627 0050
AMERSFOORT / VOLKSRUST	DE WET VAN DEN BERG	083 789 9252
BETHAL	HANNES SWANEPOEL (SNR)	082 555 9571
BETHAL	HANNES SWANEPOEL (JNR) (SUBAGENT)	072 180 2298
DELMAS	CALLIE DE BRUIN	082 463 6759
DELMAS / LEANDRA / OGIES	XAVIER YSSEL	083 235 5050
HOËVELDRIF	PM ERASMUS	082 388 2148

EASTERN FREE STATE / STANDERTON

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	DES CUFF	060 957 2992
AGRONOMIST	PIETER DE WET	072 346 5037
BETHLEHEM / CLARENS / PAUL ROUX	GIDEON KNOBEL	083 628 6477
BETHLEHEM / LINDLEY / PETRUS STEYN / REITZ / KESTEL / ARLINGTON / CLARENS	LOUW STADLER	082 614 8629
BETHLEHEM / LINDLEY / PETRUS STEYN / REITZ / KESTEL / ARLINGTON / CLARENS	HERMAN COETZEE (SUBAGENT)	083 261 9756
FICKSBURG / CLOCOLAN / TWEESPRUIT / MARQUARD	LOUIS KOCH	073 661 0452
HARRISMITH / WARDEN / VERKYKERSKOP / KESTEL	MARCHAND JANSE VAN RENSBURG	082 781 5221
HARRISMITH / WARDEN / VERKYKERSKOP / KESTEL	MARÉ POTGIETER (SUBAGENT)	083 604 2608
LADYBRAND / EXCELSIOR / TWEESPRUIT / CLOCOLAN	MEYER KOTZE	082 908 9994
MORGENZON / STANDERTON / VAL / HOLMDENE	FRANCOIS DU PLESSIS	082 331 6572
SENEKAL / WINBURG / MARQUARD	JURGENS KOTZE (SUBAGENT)	083 414 3034
VREDE / MEMEL	HENNIE JANZEN	082 322 8037
VILLIERS / MEMEL / FRANKFORT	SCHABORT DE JAGER	082 441 9739
VILLIERS / MEMEL / FRANKFORT	JW DE JAGER (SUBAGENT)	071 380 8735

MPUMALANGA/LIMPOPO

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	WILLEM DU PLESSIS	067 427 2191
AGRONOMIST	ROELOF LE ROUX	083 627 0050
BRITS / THABAZIMBI	LOUIS MINNAAR	083 800 0969
CAROLINA / LYDENBURG / BELFAST / STOFFBERG	JOHAN DE BRUTO	076 801 5993
DELMAS / OGIES / WITBANK	PUNA MAREE	076 812 1514
HENDRINA	MORNÉ FERREIRA	083 267 8866
HENDRINA / ERMELO	COLIN ODENDAAL	082 061 8284
HENDRINA / ERMELO	PR JANSE VAN RENSBURG	076 687 0202
MARBLE HALL	CORNEL SMIT	079 699 4503
MIDDELBURG	JACOBUS DÜRR	079 525 2340
MIDDELBURG	JAN WIJMA (SUBAGENT)	082 555 0014
MIDDELBURG	PIETER ERASMUS	082 450 6705
MIDDELBURG	WILLANDRE KOTZENBERG (SUBAGENT)	082 920 8074

CENTRAL REGION

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	GERT NAUDÉ	076 431 2257
AGRONOMIST	PIETER DE WET	072 346 5037
PRODUCT AGRONOMIST - EAST	MAURITZ VAN HEERDEN	082 885 3962
GROOTVLEI / VREDE / VILLIERS	JOHAN STADLER	082 782 8840
HEIDELBERG	HENDRIK DE WET	082 555 0442
HEIDELBERG	HENRI MARAIS (SUBAGENT)	083 764 2404
HEILBRON / ORANJEVILLE / SASOLBURG / VANDERBIJLPARK	BRENDEEN NAUDÉ	076 884 0514
KOPPIES	LK JONKER	082 784 1666
NIGEL / DEVON / BALFOUR	JAN SMITH	072 663 2004
REITZ / PETRUS STEYN / BETHLEHEM / DANIELSRUS	OOSIE OOSTHUIZEN (JNR)	082 789 4309

NORTH WEST

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	NELIS POTGIETER	071 291 2612
AGRONOMIST	PHILIP FOURIE	082 909 3262
COLIGNY / LICHTENBURG / GERDAU	CHARL DE WET	071 681 1254
DELAREYVILLE / GEYSDORP / MAREETSANE	NIEL KAMFFER	082 707 6552
KOSTER / GROOTPAN / DERBY / MAGALIESBURG	LIAAN LOTTER	082 323 4878
LICHTENBURG / SANNIESHOF / BIESIESVLEI	DIRK VAN NIEKERK	082 781 6377
OTTOSDAL / HARTBEESFONTEIN	TOMMIE WIERSMA	082 385 7122
SCHWEIZER-RENEKE	GERRIT VAN NIEKERK	083 627 5162
VRYBURG / LOUWNA / TOSCA	AMI DE WET	082 343 6467
WOLMARANSSTAD	THYS ELLIS	083 444 9842

NORTHERN CAPE / EASTERN CAPE / WESTERN CAPE

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	KALLIE KNOX	0674247877
AGRONOMIST	AJ STEYN	083 627 3788
BLOEMFONTEIN / ALIWAL-NORTH / PETRUSBURG	LAUNA VAN ASWEGEN	083 310 0108
CRADOCK / COLESBERG	GERHARD SCHULZ	074 176 0583
DOUGLAS / ORANJERIVIER	HENRY DU TOIT	082 783 5593
DOUGLAS / VAALRIVIER / ORANJERIVIER	WILLIE BOTHA	083 632 1900
HOPETOWN / VANDERKLOOF / GARIEPDAM	DAWIE HUMAN	064 878 6140
JACOBSDAL / KIMBERLEY / MODDERRIVIER / KOFFIEFONTEIN	STEPHEN BANN	084 625 5367
JACOBSDAL / KIMBERLEY / MODDERRIVIER / KOFFIEFONTEIN	GAWIE DU PLESSIS (SUBAGENT)	079 493 0552
JAN KEMPDORP / HARTSWATER / CHRISTIANA / BLOEMHOF	JOHANN ERASMUS	076 733 6416
JAN KEMPDORP / HARTSWATER / CHRISTIANA / BLOEMHOF	ANDRIES ZANDBERG (SUBAGENT)	082 809 4372
PRIESKA	ANDRIES ETSEBETH	079 496 4663
UPINGTON / KAKAMAS / GROBLERSHOOP	JANNES GAGIANO	084 745 2992
WES-KAAP / TSITSIKAMMA	RIKUS SCHOEMAN	063 691 1838

NORTHERN & WESTERN FREE STATE / NORTH WEST

AREA	AGENT	CONTACT NUMBER
AREA MANAGER	HENNIE DU PLOOY	066 433 6418
AGRONOMIST	MARTIN BRANDT	082 303 0698
PRODUCT AGRONOMIST - WEST	JOHAN KOCK	071 681 4039
BOTHAVILLE	EMILE GERBRANDS	083 564 2244
BOTHAVILLE	KIRSTEIN KOK (SUBAGENT)	083 928 1236
BULTFONTEIN	HANO BOTHA	082 725 2469
HOOPSTAD / HERTZOGVILLE	PIETER LABUSCHAGNE	082 775 1935
HOOPSTAD / HERTZOGVILLE	JAPIE BRITZ	082 558 0850
PARYS / VREDEFORT	ETIENNE AUCAMP	083 600 5779
POTCHEFSTROOM / FOCHVILLE / VEREENIGING	ABRIE COETZEE	083 448 0940
POTCHEFSTROOM / FOCHVILLE / VEREENIGING	PE COETZEE (SUBAGENT)	073 123 9456
VENTERSDORP / CARLETONVILLE	SIAS FOURIE	082 551 4536
VILJOENSKROON / VIERFONTEIN	HANCO STEYN	072 783 4845
WESSELSBRON / WELKOM / ALLANRIDGE	BRAAM STRAUSS	082 562 9667



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