# OUR STANDARD is ANOTHER'S EXTRA MILE.

**TECHNOLOGY + TRADITION** 



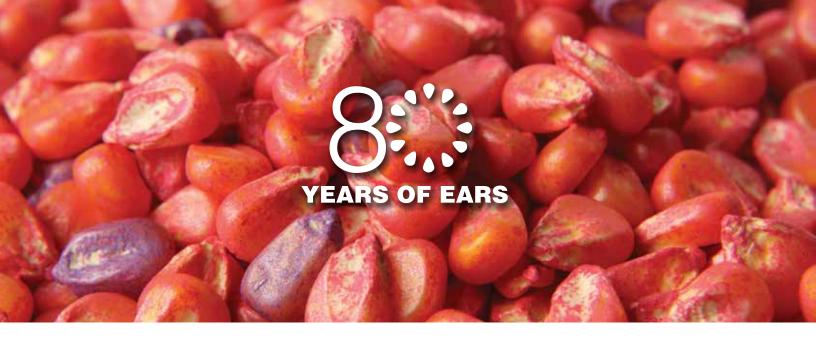












# IF IT ISN'T THE BEST WE DON'T PUT OUR NAME ON IT.

Dear Grower.

Whether it's our Poncho® 500 VOTiVO PowerShield® seed treatment standard at no extra cost or our 24-hour service guarantee, Burrus does it right.

Other seed companies would view those as upgrades or extra-mile services. Not here! We also have a testing program designed to identify the highest performing products for your local area. We understand that not every acre you farm is flat and black.

Nationwide companies only test on the most productive soils, then choose products that can go far and wide. Those products are good, but often not the very best for your soils and management style.

First and foremost we are farmers like you — that gives us in-the-field practical know-how that boardroom decision makers just don't have.

For example, our Crop Optimization Planner (COP) through MyFarms™ is an easy-to-use tool that combines farm knowledge and data with our product knowledge and experience for your individual fields. We can create prescription planting plans to vary your population by soil type and management zone all on the go. We can even write a prescription to change hybrids

automatically — you don't have to worry about anything except the driving.

Our multi-brand strategy puts us a step ahead of the game. With Burrus, this means you can rotate corn rootworm traits from field to field supporting the long-term durability of CRW Bt. Our single bag refuge products like Power Plus® brand Optimum® AcreMax® XTreme or Agrisure® 3122 E-Z Refuge™ ensure compliance in one step in the corn belt. Fill the planter and go!

In soybeans, our strategy provides the option of rotating your herbicide trait system from Glyphosate tolerant to LibertyLink®, reducing the chance of weed resistance while getting the same high quality and service you expect from Burrus.

You'll find, too, that Burrus is a non-GM leader. Technology-owned companies often handicap their conventional hybrids to make sure their "high dollar products" are better. We don't do that ... and don't need to do that. Our conventional products are the best they can be.

Burrus PowerShield® seed treatment for soybeans includes fungicides, insecticides, phytopthera suppression, and biologicals to encourage root growth and enhance yield. Because we back them with a 100% free replant quarantee, planting early — including

ILeVO® for SDS control — can achieve exceptional performance. (We call it PowerShield SDS.)

As an umbrella over everything we do is the Burrus passion to be the best supplier you have. Our seed production techniques provide the utmost care to achieve the highest quality. Scoop your hand into the seed and compare. You can see the difference!

The extra attention Burrus spends on many small details means extra profitability for you — things like hooded spraying to improve purity ... four color ... color sorting ... double gravitying, ... having the ideal treatment recipe to establish stand under cold, wet conditions that enhance yield — and those are just a few on the list.

What it boils down to is that our standard isn't even on the radar screen for many of our competitors.

Yes, we are confident that Burrus is the best choice. What we bring to your operation is the best it can be or we wouldn't put our name on the bag.

Successfully,

Fom Burrus I

Tom and Dave

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Power Plus®, Optimum® and AcreMax® are registered trademarks of Pioneer Hi-Bred.
Catalyst® as Syngenta brand distributed by Burrus.
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# TABLE OF CONTENTS

Dear grower	2
Table of contents	3
Multi-brand strategy	4
MyFarms <sup>™</sup> COP	6
Corn rootworm strategy	8
Weed resistance strategy	10
Staff & map	12
Alfalfa	15
Special opportunities for Burrus customers	16
Seed corn technology review	18
Updated numbering system	19

# Corn — Above/Below-Ground Insect Control

Hughes 1286 3000GT / Power Plus® 1K08AMXT™ Brands	20
Power Plus® 1S26AMXT™* / Power Plus® 2F91AMXT™* Brands	21
Power Plus® 2V56AMXT™* / Power Plus® 3H85AMX™* Brands	22
Catalyst 4685 3111 / Power Plus® 4J95AMX™ Brands	23
Power Plus® 5C17AMX™* / Burrus 5Z44 3122 Brands	24
Power Plus® 6L45AMT™ / Burrus 6T54 3000GT Brands	25
Power Plus® 6F74AMX <sup>™*</sup> / Power Plus® 6P75AMX <sup>™*</sup> Brands	26
Power Plus® 7A18 Q <sup>™*</sup> / Catalyst 7893 3111 Brands	27

# Corn — Above-Ground Insect Control

Power Plus® 2N82AM™ / Power Plus® 4J93AM™ Brands	28
Power Plus® 4V45AM™ / Cataylst 5009 3220 Brands	29
Power Plus® 6C41 S <sup>™</sup> / Power Plus® 6N83AM <sup>™</sup> Brands	30
Power Plus® 7U15AM-R™ / Cataylst 7577 3010 Brands	31
Power Plus® 7H23 S <sup>™</sup> Brand	32

# Corn — Glyphosate-Resistant

Hughes 2428 GTA Brand	32
Power Plus® 2R63 R™ / Hughes 5124 GT Brands	33
Power Plus® 4J99 R <sup>™*</sup> / Burrus 6T51 GT Brands	34
Power Plus <sup>®</sup> 6F71 R <sup>™*</sup> Brand	35

# Corn - Non-GMO

Hughes 3442 Brand	35
Power Plus® 2R67™* / Power Plus® 4J90™* Brands	36
Power Plus <sup>®</sup> 5N48 <sup>™*</sup> / Power Plus <sup>®</sup> 6C40 <sup>™*</sup> Brands	37
Burrus 6Q60 / Power Plus®7H20™ Brands	38
Chemicals to avoid	39
Population recommendation	40
Guide to accurate seed corn planting	41

# Sovbeans

Glyphosate Tolerant Soybeans	42
LibertyLink® Soybeans	46
Seed piracy	48
Soybean ratings and characteristics	49
Supplier footnotes	50
PowerShield® seed treatments	51

Cover photo compliments of Chad Mitchell Photography.

# **EASY TO USE PRODUCT SELECTION GUIDE**

The Product Selection Guide is designed for easy use. Hybrids are grouped with the same insect control or herbicide resistance together to simplify product selection.

Please refer to the sidebar of each page for the tab of the hybrids featuring the insect control or herbicide resistance.

Hybrids are grouped by:

Above/Below-Ground Insect Control – green side bar Above-Ground Insect Control – black side bar Glyphosate-Resistant – red side bar Non-GMO – yellow side bar

This design is just another example of how Burrus is working every day to make your life easier and your farming operation more profitable. At Burrus, we measure success by customer satisfaction. We sell solutions for your farm. We deliver a value package of outstanding performance, superb quality and exceptional service. We focus on the fundamentals, guarantee you a growing start with our 100% free replant policy and provide season-long agronomic advice.

Ultimately, we strive to bring you the highest return on your seed investment dollar. Look to the Burrus/Hughes team to bring you honest, straightforward information to increase your profit potential.

Our customers feel like they are part of the family. We invite you to experience the value we deliver.



# OUR MULTI-BRAND STRATEGY FOR CORN AND SOYBEANS YIELDS MORE CHOICE AND HIGHER PROFIT POTENTIAL.

# Burrus has a new way to access better corn and soybean genetics to fit the way you farm.

We have kept the responsive local service you have come to expect from the Burrus team. Then we entered into a strategic alliance with major companies. Together, we supply the best research answers for improving corn and soybean yields from across the industry.

The result — we give local growers wide access to the best germplasm and industry leading traits. We don't restrict customers to only one trait platform. That allows growers to rotate traits and genetics to increase their year-to-year yield potential.

When you rely on Burrus you benefit from a choice of products and traits that most single suppliers can't match.

# We call it a multi-brand strategy. You might call it the best decision you ever made.

Your yields are what matter most. Our testing map helps you understand what works in your area. We test on all types of soils so we understand what to recommend on your farm. Many of the competitors focus their testing only on black soil.

The Burrus Harvest Report shows true results from areas near where you farm, and on soil types and growing conditions you are likely to encounter. In fact, performance studies show up to 18 bu/a more performance with the highest quality seed compared to poor quality seed production.

# While farming has changed over the years, who we are and what we stand for has not changed.

Burrus has been independent and farm-family owned since 1935. There are still Burrus family members running the company. Family pride is part of everything we do. Burrus production techniques are the most precise in the seed industry. It shows in how we support local growers with our focus on seed performance and recognizing your growing conditions.

# Our PowerShield® treatment is the best for promoting emergence under cold, wet conditions and is backed with our 100% free replant guarantee.

PowerShield® beans are fully treated with fungicide, insecticide, and three biologicals. The majority of Burrus soybeans are delivered in E-Z Load boxes to make handling easier. Hoblit and Hughes Brands provide the LibertyLink® soybeans in our lineup.

# A strategic alliance offers increased opportunity.

Working in a strategic alliance since 2010, Burrus and Hughes Hybrids add distribution and brand value. The partnership also combines industry best practices to deliver increased opportunity to our growers.



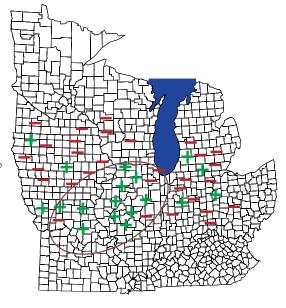
# SELECTING PRODUCT FOR OUR MARKET FOOTPRINT MEANS TESTING ON ALL SOILS.

National companies look for products that can be used over wide geography rather than a best product for a smaller or regional area. They tend to focus on company profit and efficiency of scale. We are interested in bringing you the best whole farm performance by maximizing the yield on every acre you farm.

Burrus has an extensive testing program that is used to identify the best products for our footprint. We have areas with high organic soils and areas that have more stress prone soils. We test on all soils, while competitors focus on black soils so they can have low coefficient of variation numbers. We routinely utilize the best techniques to analyze data and are expanding our plant density studies to fine tune our Crop Optimization Planner.

You'll find, too, that Burrus production techniques are more meticulous than those of competitors. Quality is not something you stamp on the bag when you apply seed treatment. Studies have demonstrated up to 18 bu/a more performance out of the highest quality seed.

That is why we meticulously grow our own seed. Whether it is spraying Liberty® or Roundup® with our hooded sprayer to remove any plants that are carrying the desired trait, or double graviting and color sorting every unit, Burrus cuts no corners. Then, we apply our PowerShield® seed treatment package for optimum stand establishment — and it adds yield.

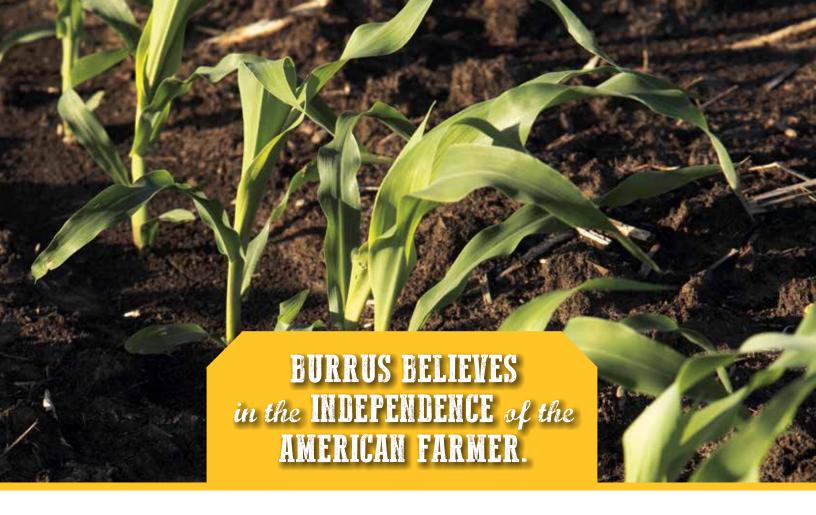


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Test hybrid above mean. National focus 17 Local 11 Test hybrid below mean. National focus 30 Local 4

The map illustrates 30 plot locations across the Midwest. Those plot locations with a green plus sign show the test hybrid above the mean. Those plot locations with red minus signs show that the test hybrid was below the mean.

At Burrus/Hughes we focus on hybrids providing exceptional performance in our footprint (signified by the circle). Burrus provides exceptional products in areas where national companies can only offer an average product.



# THE BURRUS CROP OPTIMIZATION PLANNER:

# Your farm knowledge combined with our research — a profitable combination.

Ask yourself if multiple years of testing is important to your seed purchase decision? If you answered yes, look with confidence to the Burrus Crop Optimization Planner (COP) powered by MyFarms<sup>™</sup> gleaned from years of research data.

At Burrus, we recognize that nobody knows your land and management better then you. With the Burrus COP powered by MyFarms, your field knowledge and management practices are combined with our years of research data and proprietary product knowledge to create a customized planting plan for each field.

Burrus COP-recommended products were on average of 12.5 bu/a above the average of the plot. This means an extra \$100 per unit of seed in additional value. In tight markets, management decisions become increasingly important; the Burrus COP delivers. More grain in the tank means more money in the bank.

But the COP doesn't stop there in providing value to you the grower. COP is a whole farm management system designed to help you in all of your farm planning and recording needs. COP can help you manage planting, spraying, and fertility records. You can create and share field maps. You can track rainfall and maturity and even monitor for risk of disease.

The value proposition for you the grower continues when you take advantage of our program to offer the Burrus COP to you free of charge. That's a \$500 value for continuing to be a loyal Burrus customer. This is all part of our desire to partner with you to make your farming operation more profitable.

Additionally, Burrus believes in the independence of the American farmer. This means that we at Burrus believe your data is your data. By partnering with an independent third party (MyFarms) that doesn't sell seed or other strategic inputs, you can have

confidence that your field data is safe. Farm data is stored in MyFarms, which does not (and never will) price strategic inputs. This means that your map data doesn't move to anyone else unless you choose to share it.

Burrus believes in investing in your growth by bringing:

- Diverse seed traits and germplasm with our multi-brand portfolio of products selected for where you grow.
- Cutting-edge technology that yields in the Burrus COP.
- Knowledgeable representatives trained as Burrus COP crop placement specialists ready to assist you.
- The honesty and integrity of a name you can believe in.

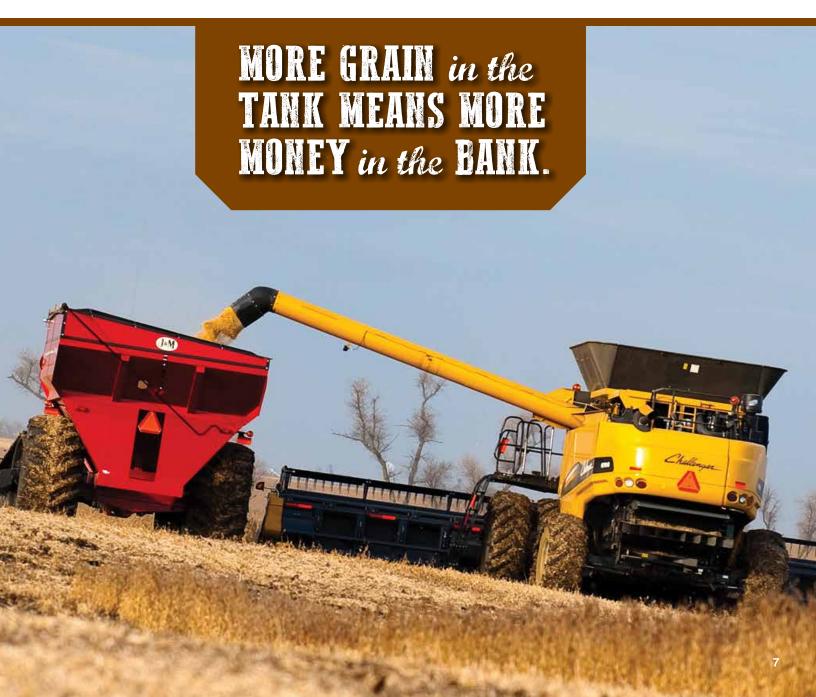
Talk to your local dealer or Account Manager today to learn more about how you can take advantage of this offering from Burrus.

# "IT WORKED LIKE A CHARM."

"Burrus/Hughes are the leaders in variable rate planting!" said Rick Paris, a Missouri farmer, sharing his experience with the COP.

"This spring we used our Crop Optimization Planner variable rate planting technology that increases plant population on the more productive soils and decreases plant density on the more drought-prone soils. It was used on many farms and with many different controllers with great success again in 2015."







# HELPING YOU PREVENT CORN ROOTWORM RESISTANCE.

The 2014 season granted us a brief rootworm reprieve in much of the Burrus footprint, but rootworm management was considered a priority before we hit the 2015 growing season.

Rootworms will again prune roots despite our recent break. As of October 2014 Western corn rootworm resistance had been confirmed in an expanding territory that now covers at least four states.

The scope of resistance expanded as well. Previously, resistance had only been confirmed to Monsanto's YieldGard® Rootworm trait (Cry3Bb1). Over the past season though, cross resistance was confirmed to Agrisure® Rootworm (mCry3A).

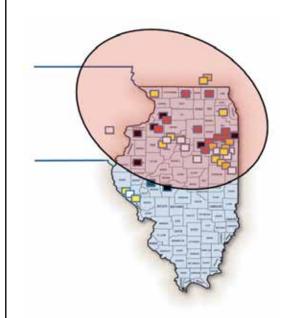
While rootworm injury was less extensive in the Midwest during the 2014 growing season, it was not absent. Once again, Burrus received reports of every trait at least suffering a "chew through" event (including the Herculex® RW Trait – Cry 34/35Ab1). A "chew through" (atypical damage to a traited rootworm product) does not necessarily equal the presence of "resistance."

Western corn rootworm resistance to Bt traits can be selected for increased

survival on Bt corn within just a few generations. One of the main problems of the past was the low compliance by farmers to plant refuges, which were put in place to curtail the development of rootworm resistance. Planting multiple years of corn-on-corn or the same Bt trait only increased the likelihood of rootworm resistance.

Once resistance to a pest management strategy occurs there is no way for us to reverse these effects. By diversifying or rotating western corn rootworm management strategies, we can begin to break the lifecycle of this pest, preserve management tactics, and overall, attempt to maintain a high level of control of the western corn rootworm.

# **ROOTWORM TRAIT RESISTANCE "RISK ZONE"**



This tool provides guidance on the likelihood of encountering trait-resistant rootworms. It does not predict where trait-resistance will or will not occur or which products resistance may or may not appear on.

# **ROOT INJURY**

- ☐ 0 to 0.0001
- 0.0001 to 0.05
- 0.051 to 0.15
- **0.15** to 0.5
- University observations
- RSM problem areas
- 2012 Burrus observation



Crop rotation is key in eliminating corn rootworm populations within fields as well as offer many other benefits for the crop. However, we know it is never that simple. There are many issues that could hinder a crop rotation such as later planting, silking dates or the development of rootworm resistance to crop rotation.

In some areas, the western corn rootworm "soybean variant" has overcome crop rotation by laying eggs in multiple crops, not just within corn in hopes of feeding on the corn crop in the coming year. Other ways that crop rotation can be defeated is by volunteer corn in soybeans because its roots are able to support rootworm larvae and silks attract rootworm adult feeding. Volunteer corn roots do not express Bt proteins at an appropriate level. Therefore, rootworm resistance development can be only accelerated.

If you are in a corn-on-corn rotation, especially within the rootworm trait resistant risk zone for corn rootworm, you must evaluate your risk and answer the following questions: What is the rootworm pressure in each field? What is the Bt trait history in each field? Have you seen signs of Bt trait resistance? It is vital that a grower have a handle of what the rootworm pressure is in each field both below and above ground before the next corn crop. During corn silk, access the

number of adult beetles not only once, but 3-4 weeks after silk.

Don't ever try to judge trait performance by corn yield or standability. Growers need to dig, wash, and evaluate roots for rootworm larvae feeding for an extended amount of time at the end of the season because there is the chance of late emerging rootworm adults, especially in fields where soil insecticide has been used on top of traited corn.

Finally, be aware of the "trap crop" effect where later planted corn or longer maturity silage could cause a considerable amount of rootworm beetles from neighboring fields to be lured into fields. A "trap crop" could even bring resistant/cross resistant beetles into your field, which further accelerates your risk for Bt resistance.

In order to evaluate and reduce your risk for rootworm resistance, field monitoring needs to take place. One must also realize that all corn rootworm management options have advantages and disadvantages. There will not be one single solution to the corn rootworm problem. A grower needs to incorporate various management strategies and not be predictable.

Recommendations are to switch traits as much as possible or at least every

3-4 years. In order to do this, you might consider planting corn with no traits with soil insecticide one year and then plant a single rootworm-traited hybrid with Poncho® 1250. Corn hybrids with Bt pyramids are more effective, but remember, these pyramids are a combination of various Bt traits. Bt traits can be overcome by high populations of corn rootworms, or western corn rootworms can be resistant or cross resistant to one or more of the Bt traits within the pyramid.

Soil insecticide is "additional insurance" especially if no monitoring has been done, but it is considered a root protection strategy and not a larvae kill strategy. Insecticides can provide standability and a "zone of protection" for roots, but many of the roots outside of the "insecticide zone" are not protected.

If managed properly, Bt hybrids can offer a "zone of protection" for the entire root mass, which brings a higher level of larvae kill. Unfortunately, if the rootworm population is not managed properly and becomes resistant, or if rootworm populations become too high, both Bt traits and insecticides will not be able to compensate in heavy rootworm pressure situations.

# WEED RESISTANCE – DR. NORRIS WAS RIGHT, SO WHAT NOW?

Let's talk history. Glyphosate (Roundup®) resistant crop technology was released during the last decade of the 20th century. Its introduction is literally one of the most significant developments in weed management second only to the introduction of 2,4-D in the '40s.

The more optimistic said at the time that such crops would usher in more weed management options. Industry leaders were pretty sure resistant weeds could be an issue for agriculture in general but most predicted few issues in glyphosate resistant crops.

Enter an early '90s Weed Science Society symposium on herbicide resistance, a meeting somewhat dominated by optimists. The attendees largely dismissed the idea that glyphosate resistant weeds could develop. A UC-Davis professor sat in the middle of this group. Dr. Robert Norris was a lonely voice at that event, and he spoke some haunting words:

"I have taught pest management ... and when they say we are not going to see resistance in the population, they're crazy. The handwriting is on the wall."

Most respectfully disagreed, the meeting plowed along, and two decades later we all realize he was very right. Within a decade of Roundup Ready, the number of glyphosate resistant weeds had Burrus has stated that managing herbicide resistance essentially comes down to a five-step approach. There are solid reasons for putting confidence in that approach.

# "... WHEN THEY SAY WE are NOT GOING to SEE RESISTANCE in the POPULATION, THEY'RE CRAZY."

exploded. One waterhemp population exhibited a 19-fold level of glyphosate resistance — one of the highest resistance levels ever recorded (Legleiter & Bradley, Weed Science, 2008).

So where does that leave us? What options do we have to manage resistance? More importantly, how can we be sure certain strategies will help salvage weed management tools?

1) Ambitiously scout fields. Herbicides (pesticides in general) are a limited resource much like soil, water, etc. Herbicide resources can be "drained" by resistance. We know the best way to manage a limited resource is to monitor it. Scouting does this. It tells us if efficacy begins to disappear and when we should initiate other management options (if we have not wisely been doing so already).



- 2) Error on the side of caution assuming resistance where escapes occur managing accordingly. Twenty years of herbicide resistant crop experience prove this point. Industry leaders were documenting weed escapes within years of glyphosate resistant crops. Yet, they proceeded to argue if those escapes were or were not evidence of resistance. If we had assumed the worse then, we likely would not have the resistance issues we have now.
- 3) Engage in a lockdown strategy that eliminates escaped weeds, eliminates weed seed production, and restricts seed movement from one field to another. A brief examination of weed control in the turf industry makes this case. While some evidence of herbicide resistance exists there, fewer issues exist despite the use of active ingredients common to row crops. One reason is the fact that weed escapes are physically eliminated (hoed, pulled, etc.) before they can produce seed (Hall et al. Weed Science, 2011).
- 4) Give herbicides a fighting chance—applying the right rate—applying herbicides at appropriate weed sizes—applying in a manner that adequately assures a high dose. Both laboratory and in-field studies demonstrate that reduced rates promote resistance (Neve and Powles, 2005; Manalil et al., Weed



Science 2011). A reduced rate can occur when herbicide is applied at a reduced rate, but it can also occur when "treatment occurs to bigger plants that are well past the optimum growth stage for control" (Manalil et al., Weed Science 2011).

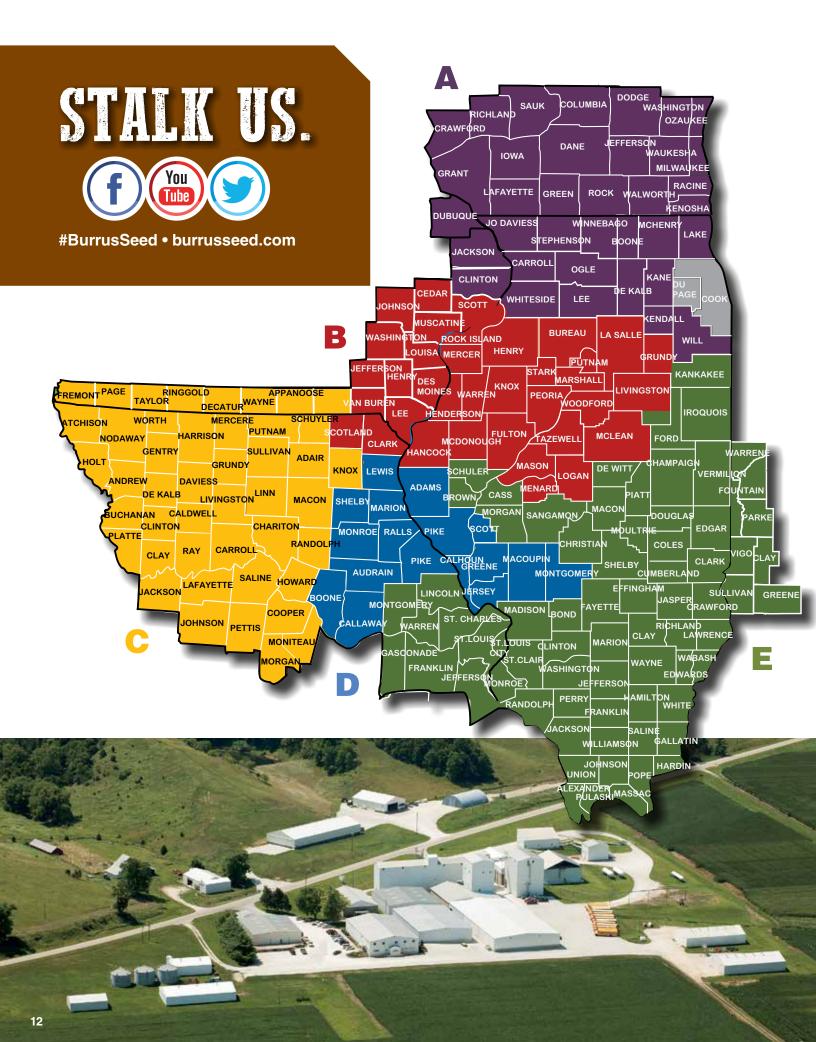
5) Move beyond number 9 (the family to which glyphosate belongs), and move beyond reliance upon any single mode of action. We know the use of a single active ingredient/single mode of action (MOA) promotes resistance (Legletier & Bradley, Weed Science 2008). Rotating MOAs keeps resistance off its game. A weed is less likely to develop resistance to multiple modes of action and may be killed by an alternate herbicide in rotation or, more importantly, in a tank mix. Additionally, some resistant weeds

display "negative cross resistance," hyper sensitivity of a resistant weed to other herbicides (Jordan et al., Applied Ecology, 1999). This hypersensitivity can be exploited in a tax mix.

One final thought — Burrus cannot overemphasize the importance of maintaining crop health. Resistant weeds are not necessarily vigorous when compared to non-resistant kin. Resistant weeds sometimes develop more slowly (Jordan et al, Applied Ecology 1999). A vigorous, healthy crop can shade these plants and put them at a competitive disadvantage when compared to their non-resistant neighbors.

We know Dr. Norris was right. So now ... let's do something about it.





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# HIGH-PERFORMANCE ALFALFA FORAGE SOLUTIONS

**388HY HYBRID ALFALFA** represents a recent improvement in Hybrid Alfalfa using the patented msSunstra Hybrid Alfalfa Technology! This new product has familiar hybrid characteristics like dense stands with fine-stemmed herbage and fast recovery, but it comes with an exceptional boost in yield. This fine stem characteristic makes a dense, attractive alfalfa bale. For the highest forage yields of high quality forage, 388HY is the variety of choice.

214FY BRAND ALFALFA is a high forage yielding, persistent alfalfa with excellent forage quality potential. It expresses quick re-growth after cutting to maximize the growing season. 214FY performs best in high producing, well-drained soils. It has a solid disease, insect and nematode resistance package that helps defend itself in adverse environments. 214FY is an alfalfa variety for the dairy or beef producer that demands high tonnages of dairy quality forage.

# **Features**

- Consistent high forage yield
- Rapid recovery after harvest
- Excellent disease resistance
- Very dense, persistent stands
- Fine stems
- Uniform growth habit

# Benefits

- Dependability of forage supply
- Better use of growing season
- Broad adaptability
- Better weed control
- Attractive forage bales
- Easier to manage consentient forage quality

Agronomic Summary	214FY
Bacterial Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Verticillium Wilt	HR
Anthracnose (Race 1)	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	R
DRI	34/35
Stem Nematode	R
Northern Root-knot Nematode	HR
Pea Aphid	R
Blue Alfalfa Aphid	MR
Winter Survival	1.9
Root Type	Тар
Fall Dormancy	4.1
Cutting Recovery	8.0*
Forage Yield Level	8.4*
Forage Quality	8.0*
Wheel Traffic	7.5*
*10 is best, 1 is poorest	

Agronomic Summary	388HY
Bacterial Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Verticillium Wilt	HR
Anthracnose (Race 1)	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	MR
DRI	33/35
Stem Nematode	HR
Northern Root-knot Nematode	HR
Winter Survival	1.8*
Fall Dormancy	4.0*
Root Type	TAP
Crown Depth	Average
Fitness of Stem	Fine

HR = High resistance MR = Medium resistance

R = Resistant

# Optimum® AQUAmax® Products — designed to make the most out of every drop!

- In non-irrigated trials 5.4 bu/a yield advantage
- Irrigated conditions 3.4 bu/a yield advantage
- Tough from tassel to root
- Advance stoma control to be more efficient with water
- Aggressive silking for improved kernel set
- Better stay green to lengthen the window for growth
- Deeper kernels maintain yield under late season stress
- Efficient root system penetrates deeper in the soil to capture moisture
- Uses less water per bushel
- 70% win ratio on NON-irrigated growing conditions
- 61% win ratio on irrigated growing conditions

For 2016, we offer seven products that carry the Optimum AQUAmax logo and offer improved yield stability under heat and drought stress.

Optimum AQUAmax products from PROaccess Genetics were grown in 404 non-irrigated research plots, on-farm strip test and on-farm side-by-sides with a win ratio of 70 percent across IA, SD, NE, KS, CO, MO and OK. plots against competitive hybrids (+/- 5 CRM), onfarm strip plot (+/- 10 CRM) and on-farm side-by-side comparisons against one similar CRM commercial product. These same products demonstrated a 3.4 bushel advantage with a win ratio of 61 percent in 210 irrigated comparisons. Product performance in nonirrigated environments is variable and depends on many factors such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. All hybrids may exhibit reduced yield under water and heat stress. Individual results may vary.

® Optimum and AQUAmax are registered trademarks of Pioneer Hi-Bred.

# WHAT MAKES BURRUS DIFFERENT?

We respect each brand of seed that survives today, but we are different than most of the other seed companies because:

- We're land-based and have irrigated all our land that is practical.
- The seed business is not an investment or a job, it is who we are.
- We love what we do.
- We have a state-of-the-art conditioning facility and our own distribution system.
- We understand that we have to fight harder, have better products and provide more information and better service than the national brands.
- We have more fire in our belly, more passion to please you!
- For these reasons and more, growers are switching to and increasing their acres with our products.

# BURRUS TO OFFER NEW SUPER FLOW PLANTER LUBRICANT.

Super Flow, a new planter lubricant developed by Bayer to reduce potential dust exposure to honey bees, will be offered by Burrus this growing season. Tested by Burrus in many makes and models of corn and soybean planters, Super Flow is a low use rate product, only requiring an 1/8th of a cup per unit of seed regardless of the planter type. Super Flow lube reduces dust-off which protects the bee population particularly with air type planters. This environmentally friendly product is the best way to protect our neonicotinoides insecticides that we need to protect our seedlings. Growers who properly applied Super Flow at the recommended rates and stirred it into the seed were very pleased with the results. Those who didn't measure it into the planter unit or failed to mix it were not as pleased with the results. Ask for Super Flow planter lubricant when you place your seed order.





# WE ISSUE RAIN CHECKS.

# 100% Free Replant on Seed Corn and PowerShield® treated Soybeans

The entire Burrus family of products, including Burrus, Power Plus®, Hughes, Catalyst® and Hoblit brands qualify for the replant guarantee of free seed, free seed treatment if available, and free tech fees of equal or less value, if from the same technology family. Ask your local dealer or Account Manager for complete details.

# PLANT NAKED.

# Burrus and Hughes are the leaders in conventional new non-GM corn products!

We are still committed to introducing new and better conventional corn products. One of our corn rootworm resistant management strategies calls for a rotation including non-GM seed with granular insecticide. Many of the trait suppliers have either discontinued or handicapped their non-GM offerings to make their high-dollar products look better. We don't need to do that. We offer a complete lineup of hard endosperm conventional products. Our Burrus Xtra seed treatment with Poncho® 500 VOTiVO provides protection from black cutworm and wire worm, which is very important when growing conventional products. Step up by using a combination of products utilizing grain premium opportunities, conventional products and technology.

# STRUCTURED REFUGE CAN MAKE YOU MORE MONEY!

# Consider planting both integrated and structured products in 2016.

Using the Burrus show plot as an example, structured refuge products averaged 12 bushels more than the integrated refuge products. This data bears out what we have been encouraging growers to consider when placing their orders. We all like convenience, but our job is to help you maximize your yield and profit too. Our recommendation is to consider planting both the structured and integrated refuge products to maximize convenience and performance.

# Agrisure Artesian® corn hybrids convert water into grain more effectively.

- Artesian® corn hybrids maximize yield when it rains and increase yield when it doesn't. Built using scientifically selected genes, this elite class of high-performing hybrids can respond to water stress with multiple modes of action and at virtually any stage of growth—managing gaps in rainfall throughout the season.
- Elite hybrids built for top-end yield
- Advanced corn water technology for season-long performance
- A simple, effective way to manage the unpredictability of weather
- Top-end yield in "normal" or productive conditions and nearly 12% higher yields than the plot average in severe and extreme drought<sup>(1)</sup>
- (1) Source: Data is based on 7,613 Syngenta onfarm strip trials across the Corn Belt, 2010-2014. Syngenta defines a yield environment of 50-99 bu/A as severe and fewer than 50 bu/A as extreme.



# **SEED CORN TECHNOLOGY REVIEW**

Technology	Herbicide			Refuge Requirements	Different insects controlled by technology					у			
	ECB Trait	CRW Trait	Broad Lep	RR	ш		ЕСВ	CRW	BCW	FAW	CEW	WBC	SB
Optimum® AcreMax® XTreme (AMXT)	<b>*</b> *			1	1	5%	С	С	С	С	s	С	NoA
Optimum® Intrasect® XTreme (CYXR)	<b>*</b>			✓	✓	20%	С	С	С	С	S	С	NoA
Optimum® AcreMax® Xtra (AMX)	<b>*</b> *			✓	✓	10%	С	С	С	С	s	С	NoA
Optimum® AcreMax® Xtra (AMX-R)	<b>* *</b>			✓		10%	С	С	С	С	S	С	NoA
Optimum® AcreMax TRIsect® (AMT)	<b>* *</b>			✓	✓	10%	С	С	c	С	S	c	NoA
Optimum® Intrasect® Xtra (YXR)	<b>* *</b>			✓	✓	5%	С	С	c	С	S	c	NoA
Optimum® TRIsect® (CHR)	•			✓	✓	20%	С	С	C	c	S	C	NoA
Optimum® AcreMax® (AM-R)	<b>*</b> *			✓		5%	С	NoA	С	С	S	С	NoA
Herculex® XTRA/RR (HXT/RR/Q)	•			1	✓	20%	С	С	С	С	S	С	NoA
Herculex® XTRA (HXT)	•				✓	20%	С	С	С	С	S	С	NoA
Herculex® 1 (HX1/RR/S)	•			✓	✓	20%	С	NoA	c	c	S	c	NoA
Optimum® AcreMax® 1 (AM1)	•			✓	✓	10% & 20%	С	C	c	c	S	c	NoA
Optimum® AcreMax® RW (AMRW-R)				✓		10%	NoA	С	NoA	NoA	NoA	NoA	NoA
Optimum® Intrasect® (YHR)	<b>*</b> *			✓	✓	5%	С	NoA	С	С	S	С	NoA
Agrisure® Duracade® 5222 E-Z Refuge®	<b>*</b> *			✓		5%	С	С	С	С	С	С	С
Agrisure® Duracade® 5122 E-Z Refuge®	<b>*</b> *			✓		5%	С	С	С	С	С	С	S
Agrisure® 3122 E-Z Refuge®	<b>* *</b>		)	✓		5%	С	С	С	С	С	С	S
Agrisure Viptera® 3111	•			✓	✓	20%	С	С	С	С	C	С	С
Agrisure® 3000GT	•			✓	✓	20%	С	С	NoA	S	S	NoA	S
Agrisure Viptera® 3220 E-Z Refuge™	<b>*</b> •			<b>√</b>		5%	С	NoA	С	С	С	С	c
Agrisure Viptera® 3110	•			<b>√</b>	✓	20%	С	NoA	С	С	С	С	c
Agrisure® 3010	•			<b>/</b>	✓	20%	С	NoA	NoA	S	S	NoA	S
Refuge Advanced® Powered by SmartStax®	<b>* *</b>			1	1	5%	С	С	С	С	С	С	NoA
Genuity® SmartStax® (GENSS)	<b>* *</b>			1	1	5%	С	С	С	С	С	С	NoA
Genuity® VT Triple PRO® (GENVT3P)	<b>•</b>			1		10%	С	С	NoA	С	С	NoA	NoA
YieldGard VT Triple® (VT3)	•			1		20%	С	С	NoA	S	S	NoA	S
Genuity® VT Double PRO® (GENVT2P)	<b>•</b>			/		5%	С	NoA	NoA	С	С	NoA	NoA

# KEY:

ECB - European corn borer

CRW - Corn rootworm

BCW - Black cutworm FAW - Fall armyworm

FAW - Fall armyworm

CEW - Corn earworm

WBC - Western bean cutworm

SB - Common stalk borer

C = Control of the insect

S = Suppression of the insect

NoA = No activity on the insect

/ - Liberty (Glufosinate) herbicide tolerance

/ - Roundup (Glyphosate) herbicide tolerance

# **Corn Belt Refuge guidelines**

20% non-B.T. refuge must be within field or directly adjacent 20% non-B.T. refuge must be within 1/2 mile of the field

5% is single bag refuge with refuge blended in the bag, no separate refuge needed 10% is single bag refuge with refuge blended in the bag, no separate refuge needed 5% non B.T. refuge must be within 1/2 mile of the field

10% & 20% means 10% of CRW refuge is blended in the bag plus 20% non B.T. refuge for ECB must be within 1/2 mile from the field

- TC1507 (European Corn Borer event)
- ◆ MON 810 (European Corn Borer event)
- ◆ BT11 (European Corn Borer event)
- ◆ MON89034 (European Corn Borer event)
- DAS591227 (Corn Rootworm event)
- MIR604 (Corn Rootworm event)
- MON88017 (Corn Rootworm event)
- - Event 5307 (Corn Rootworm event)
- - MIR162 (Broad Lepidopteran control)

The Burrus/Hughes multi-brand, multi-trait supplier strategy provides us the most diversity and protection for your farm.

# **UPDATED NUMBERING SYSTEM FOR 2016**

The Burrus numbering system indicates the maturity with the first digit. Multiply the first digit by two than add 100 for the maturity day rating. The example Power Plus® 6F74AMX™\* brand, multiply the digit by 2=12 then add 100. This depicts the maturity range as 112-113 day. The second letter is at random, if the last two digits are above 50 add the extra day. So, Power

Plus® 6F74AMX<sup>TM\*</sup> brand is 113 day. When the letter stays the same and the digits are somewhat consecutive indicates a similar family e.g. Brands Power Plus® 4J90<sup>TM\*</sup>, 4J93AM<sup>TM\*</sup>, 4J99R<sup>TM\*</sup>. The chart below explains what each means.

Brands	Maturity	Group	Technology	Designation	RR	LL	Resistance or Control
Power Plus® 5C17AMXT <sup>TM*</sup>	113		Optimum <sup>®</sup> AcreMax <sup>®</sup> XTreme	AMXT			Herculex® Xtra, Agrisure® Rootworm, YieldGard® Corn Borer
Burrus 5Z44 3122	110	Above/	Agrisure® 3122 E-Z Refuge®	3122			Agrisure® Rootworm, Herculex® Xtra, Agrisure® Corn Borer
Power Plus® 6F74AMX <sup>TM*</sup>	113	Below-	Optimum® AcreMax® Xtra	AMX			Herculex® Xtra, YieldGard® Corn Borer
Power Plus® 4J94AMX-R <sup>TM*</sup>	108	Ground	Optimum® AcreMax® Xtra- R	AMX-R			Herculex® Xtra, YieldGard® Corn Borer
Power Plus® 6L45AMT <sup>TM*</sup>	112	Insect	Optimum® AcreMax® TRIsect	AMT			Agrisure® Rootworm, YieldGard® Corn Borer, Herculex® 1 Corn Bore
Power Plus® 7A18Q <sup>TM*</sup>	114	Control	Herculex® Xtra	Q			Herculex® Xtra, Herculex® I Corn Borer
Catalyst 7893 3111	109		Agrisure Viptera® 3111	3111			Agrisure Viptera®, Agrisure® Rootworm, Agrisure® Corn Borer
Burrus 6T54 3000GT	113		Agrisure® 3000GT	3000GT			Agrisure <sup>®</sup> Rootworm, Agrisure <sup>®</sup> Corn Borer
Power Plus® 4J93AM <sup>TM*</sup>	109	Above-	Optimum® AcreMax®	AM			Herculex® I Corn Borer, YieldGard® Corn Borer
Catlayst 7577 3010		Ground	Agrisure® 3010	3010			Agrisure® Corn Borer
Power Plus® 7U15AM-R <sup>TM*</sup>	114	Insect	Optimum <sup>®</sup> AcreMax <sup>®</sup>	AM-R			Herculex® I Corn Borer, YieldGard® Corn Borer
Power Plus® 7H23 S <sup>TM*</sup>	108	Control	Stacked, Herculex® I	S			Herculex® I Corn Borer
Power Plus® 6F71 R <sup>TM*</sup>	113	Glyphosate-	Roundup Ready®	R			Glyphosate tolerant
Burrus 6T51 GT	113	Resistant	Agrisure® GT	GT			Glyphosate tolerant
Hughes 2428 GTA	100		Agrisure Artesian® GTA	GTA	_		Agrisure Artesian®, Glyphosate tolerant
Burrus 6Q60	113	Non-GM	Non-GM Conventional	no letters			No traits

IMPORTANT: Characteristic scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sold by Burrus. Information and scores are assigned by Burrus and are based on period-of-years testing through 2014 harvest and were the latest available at time of printing. Some scores may change after 2015 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

10 is best 1 is worst

# NOMENCLATURE THE MORE THINGS CHANGE... THE MORE THEY STAY THE SAME

Dealers and customers will see the same nomenclature as 2015. Here is a review of the Burrus® nomenclature to designate seed size and treatment:

**HP** – this still represents high rate Poncho® 1250 with VOTiVO® nematicide.

**BXR** – is recognized as what was previously PX23 in the Burrus system. This seed size is a Poncho® 500 VOTiVO treated round-sized seed ranging from 38 lbs. and up.

**BX3** – is a Poncho® 500 VOTiVO treated seed that has been sized as either a flat or a round. The size range is 30-39 lbs. This seed size carries a discount.

**BX4** – is also treated with Poncho® 500 VOTiVO and is a flat or round weighing 40-49 lbs.

Many growers have come to realize that a number listed behind the nomenclature marker represents the weight range of that specific hybrid in the Burrus system. For example, a BX4 will weigh between 40-49 lbs. and a BX5 will be in the weight range of 50-59 lbs.

Growers can capitalize on additional seed size discounts within our system when those particular sizes are available. Discounts are given for small and extremely large seed sizes. BX3s, BX6s and BX7s have a discount off retail price. The new Catalyst brand brings different

seed sizes for added protection from several insects.

All Catalyst brand products will be packaged in 80,000 kernel packages.

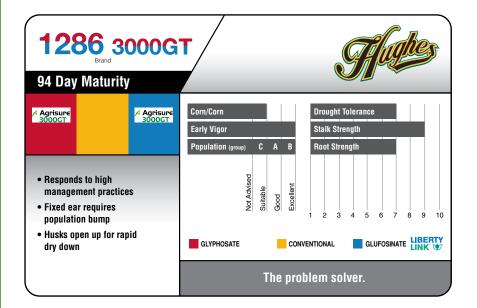
F1 & R1 will weigh 32 to 42 lbs. They will appear in the BX3 column for ordering.

F2 will weigh 43 to 55 lbs. They will appear in the BX5 column.

F3 will weigh 56 lbs. & up. They will appear in the BX6 column.

R2 & R3 will weigh 43 to 55 lbs. and 56 lbs. and up respectively and will appear in the BXR column.

For planter information see page 41.





AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7 Ear type: Fixed

PLANTING INFOPOPULATIONSpeed of emergence: 77High organic soils: 1031 – 37Timber soils: 827 – 33Clay & varied soils: 827 – 33

23 - 29

31 - 37

Wet soils: 7

Sand (dryland): 7

Sand (irrigated): 9

#### AGRONOMIC PACKAGE

Fall appearance: 8
No. leaf blight tolerance: 6
Anthracnose tolerance: NR
Gray leaf spot tolerance: 7
Diplodia ear rot tolerance: NR
Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

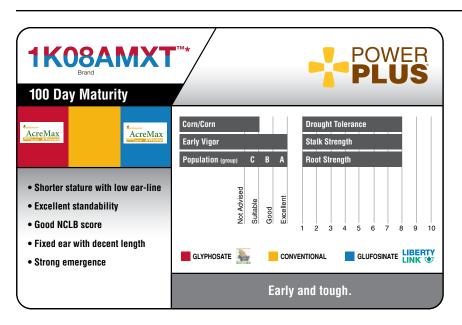
Nematode protection: Yes

#### HARVEST INFORMATION

Grain quality: 7
Test weight: 6
GDD to silk: 1130
GDD to 30%: 2190
Ear retention: 8
High tonnage silage: 8
Harvest residue: 7

## REFUGE

20% structured refuge Hughes 2428 GTA



# **GENERAL CHARACTERISTICS**

Plant height: 5 Ear height: 6 Ear type: Fixed

Wet soils: 8

PLANTING INFO	<b>POPULATION</b>
Speed of emergence: 8	
High organic soils: 8	34 – 40
Timber soils: 9	31 – 37
Clay & varied soils: 9	31 – 37
Sand (dryland): 8	26 – 32
Sand (irrigated): 9	34 – 40

# AGRONOMIC PACKAGE

Fall appearance: 8
No. leaf blight tolerance: 7
Anthracnose tolerance: NR
Gray leaf spot tolerance: 5
Diplodia ear rot tolerance: NR
Goss's wilt: 7
Plant growth regulator sensitivity: NR

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 7

# AREA OF ADAPTION: Dark Green - Primary

NEW

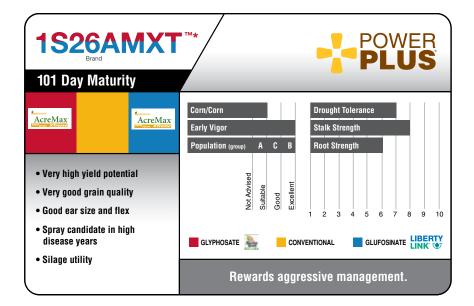
# HARVEST INFORMATION

Light Green - Secondary

Grain quality: 7
Test weight: 6
GDD to silk: 1250
GDD to 30%: 2450
Ear retention: 8
High tonnage silage: 6
Harvest residue: 7

# REFUGE

Integrated refuge



**POPULATION** 



NEW

AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 6 Ear type: Flex

# PLANTING INFO

 Speed of emergence: 8

 High organic soils: 9
 31 – 37

 Timber soils: 8
 27 – 33

 Clay & varied soils: 8
 27 – 33

 Sand (dryland): 7
 23 – 29

 Sand (irrigated): 8
 31 – 37

Wet soils: 7

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 6 Anthracnose tolerance: 5 Gray leaf spot tolerance: 5 Diplodia ear rot tolerance: 6 Goss's wilt: 7

Plant growth regulator sensitivity: NR Greensnap tolerance: 8

# PROTECTION

Nematode protection: Yes

# HARVEST INFORMATION

Grain quality: 8 (premium potential)
Test weight: 7

lest weight: 7 GDD to silk: 1270 GDD to 30%: 2450 Ear retention: 8 High tonnage silage: 9 Harvest residue: 8

REFUGE

Integrated refuge

# 2F91AMXT 103 Day Maturity Corn/Corn **Drought Tolerance** AcreMax AcreMax Early Vigor Stalk Strength С Root Strength Population (group) · Good health and agronomic package · Fixed ears with good test weight • Very early flowering GLUFOSINATE LINE · High pops needed for high yields GLYPHOSATE 🎥 CONVENTIONAL · Strong emergence Dependable early performance.

# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 5 Ear type: Fixed

# PLANTING INFO Speed of emergence: 8 High organic soils: 9 POPULATION 34 – 40

High organic soils: 9 34 – 40
Timber soils: 9 31 – 37
Clay & varied soils: 9 31 – 37
Sand (dryland): 8 26 – 32
Sand (irrigated): 9 34 – 40

Wet soils: 8

# AGRONOMIC PACKAGE

Fall appearance: 8
No. leaf blight tolerance: 7
Anthracnose tolerance: 6
Gray leaf spot tolerance: 7
Diplodia ear rot tolerance: NR
Goss's wilt: 9
Plant growth regulator sensitivity: NR

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 9

NEW

AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

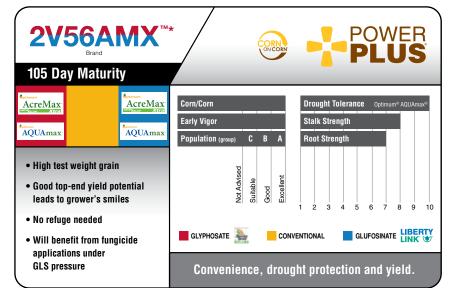
Grain quality: 8 (premium potential)

Test weight: 8
GDD to silk: 1240
GDD to 30%: 2450
Ear retention: 8
High tonnage silage: 6
Harvest residue: 7

# REFUGE

Integrated refuge

® Power Plus is a registered trademark of Pioneer. Power Plus brand is distributed by Burrus.



# GENERAL CHARACTERISTICS

Plant height: 6 Ear height: 6

Ear type: Intermediate

# PLANTING INFO POPULATION

Speed of emergence: 8
High organic soils: 7
Timber soils: 8
Clay & varied soils: 9
Sand (dryland): 8
Sand (irrigated): 8
34 - 40

Wet soils: 7

#### AGRONOMIC PACKAGE

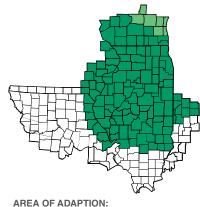
Fall appearance: 8
No. leaf blight tolerance: 6
Anthracnose tolerance: 6
Gray leaf spot tolerance: 5
Diplodia ear rot tolerance: NR
Goss's wilt: 7

Plant growth regulator sensitivity: NR Greensnap tolerance: 5

PROTECTION

Nematode protection: Yes

Water use efficiency technology: AQUAmax



AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

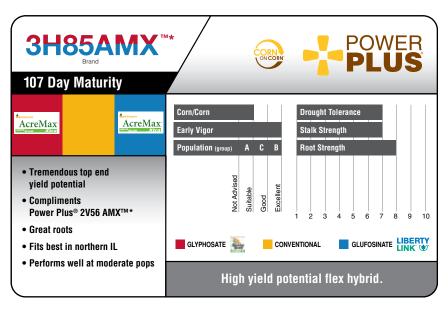
#### HARVEST INFORMATION

Grain quality: 7 (premium potential)

Test weight: 8 GDD to silk: 1330 GDD to 30%: 2450 Ear retention: 7 High tonnage silage: 8 Harvest residue: 5

## REFUGE

Integrated refuge



# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7 Ear type: Flex

PLANTING INFO

Wet soils: 8

LANTING	I OI OLATION
Speed of emergence: 8	
High organic soils: 10	31 – 37
Timber soils: 8	27 – 33
Clay & varied soils: 7	27 – 33
Sand (dryland): 6	23 – 29
Sand (irrigated): 8	31 – 37

POPLII ATION

# AGRONOMIC PACKAGE

Fall appearance: 5 No. leaf blight tolerance: 7 Anthracnose tolerance: 6 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 6 Goss's wilt: 8

COSS S WIII. O

Plant growth regulator sensitivity: NR

Greensnap tolerance: 9

# **PROTECTION**

Nematode protection: Yes

# AREA OF ADAPTION: Dark Green - Primary

NEW

# HARVEST INFORMATION

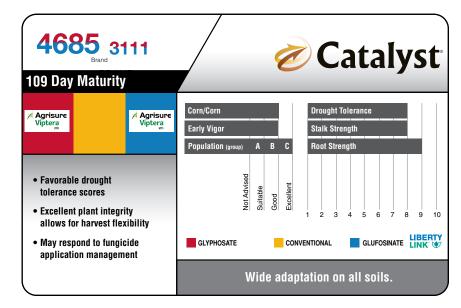
Light Green - Secondary

Grain quality: 7 (premium potential)

Test weight: 7 GDD to silk: 1340 GDD to 30%: 2700 Ear retention: 8 High tonnage silage: 9 Harvest residue: 6

# REFUGE

Integrated refuge





Plant height: 5 Ear height: 5 Ear type: Flex

# **PLANTING INFO**

Sand (irrigated): 10

Speed of emergence: 7 High organic soils: 10 28 - 34Timber soils: 9 26 - 32Clay & varied soils: 8 26 - 3221 - 27Sand (dryland): 9

Wet soils: 6

# **POPULATION**

28 - 34

AGRONOMIC PACKAGE Fall appearance: 8

No. leaf blight tolerance: 7 Anthracnose tolerance: 7 Gray leaf spot tolerance: 4 Diplodia ear rot tolerance: NR Goss's wilt: 7

Plant growth regulator sensitivity: 6

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes



Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

Grain quality: 7 (premium potential) Test weight: 6

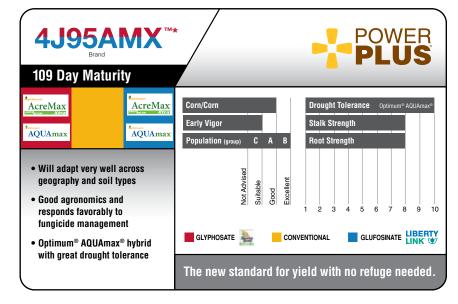
GDD to silk: 1420 GDD to 30%: 2750 Ear retention: 8 High tonnage silage: 5 Harvest residue: 5

# REFUGE

20% structured refuge

Power Plus® 4J99RTM\*, Burrus 6T51 GT,

Power Plus® 6F71 R™\*



# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Wet soils: NR

Ear type: Intermediate

# **PLANTING INFO POPULATION** Speed of emergence: 7 High organic soils: 9

31 - 37Timber soils: 9 27 - 33Clay & varied soils: 9 27 - 33Sand (dryland): NR 23 - 29Sand (irrigated): 9 31 - 37

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 8 Anthracnose tolerance: NR Gray leaf spot tolerance: 5 Diplodia ear rot tolerance: 5

Goss's wilt: 8

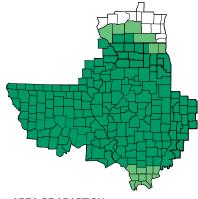
Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes





AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

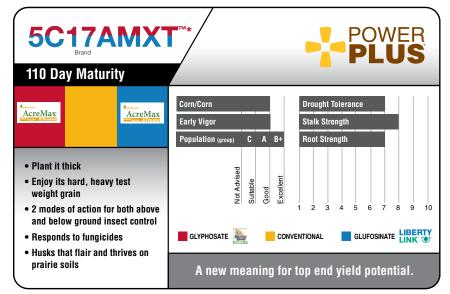
Grain quality: 8 (premium potential)

Test weight: 7 GDD to silk: 1340 GDD to 30%: 2750 Ear retention: 9 High tonnage silage: 5 Harvest residue: NR

# REFUGE

Integrated refuge

Water use efficiency technology: AQUAmax ® Power Plus is a registered trademark of Power Plus brand is distributed by Burrus. ® Power Plus is a registered trademark of Pioneer.





Plant height: 7 Ear height: 6

Ear type: Intermediate

# PLANTING INFO POPULATION

Speed of emergence: 7
High organic soils: 10
33 – 35
Timber soils: 7
29 – 31
Clay & varied soils: 7
29 – 31
Sand (dryland): 6
25 – 27
Sand (irrigated): 9
33 – 35

Wet soils: 7

# AGRONOMIC PACKAGE

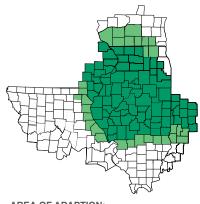
Fall appearance: 8
No. leaf blight tolerance: 7
Anthracnose tolerance: 7
Gray leaf spot tolerance: 6
Diplodia ear rot tolerance: 7
Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes



AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

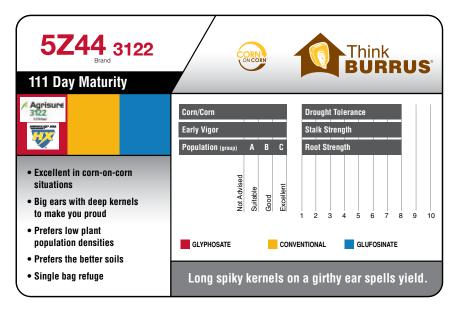
#### HARVEST INFORMATION

Grain quality: 9 (premium potential)

Test weight: 9 GDD to silk: 1370 GDD to 30%: 2700 Ear retention: 8 High tonnage silage: 10 Harvest residue: 8

## REFUGE

Integrated refuge



# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 5

Wet soils: 8

Ear type: Intermediate

PLANTING INFO	POPULATION
Speed of emergence: 9	
High organic soils: 9	28 – 34
Timber soils: 9	26 – 32
Clay & varied soils: 9	26 – 32
Sand (dryland): 8	21 – 27
Sand (irrigated): 9	28 – 34

# AGRONOMIC PACKAGE

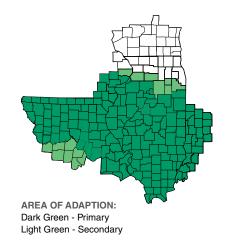
Fall appearance: 9
No. leaf blight tolerance: 7
Anthracnose tolerance: NR
Gray leaf spot tolerance: 7
Diplodia ear rot tolerance: NR
Goss's wilt: 6

Plant growth regulator sensitivity: NR Greensnap tolerance: 6

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# PROTECTION

Nematode protection: Yes



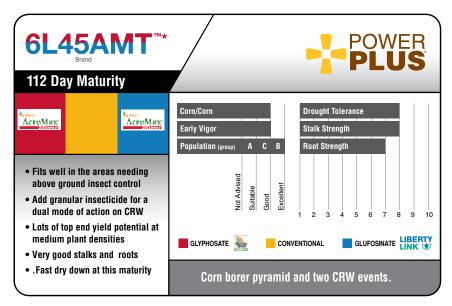
# HARVEST INFORMATION

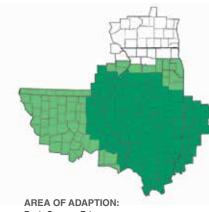
Grain quality: 8 (premium potential)

Test weight: 7 GDD to silk: 1400 GDD to 30%: 2800 Ear retention: 9 High tonnage silage: 9 Harvest residue: 9

# REFUGE

Integrated refuge





 $\mathsf{NEW}$ 

Dark Green - Primary Light Green - Secondary

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 5 Anthracnose tolerance: NR Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 7

Goss's wilt: 5

Plant growth regulator sensitivity: NR

Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes

# HARVEST INFORMATION

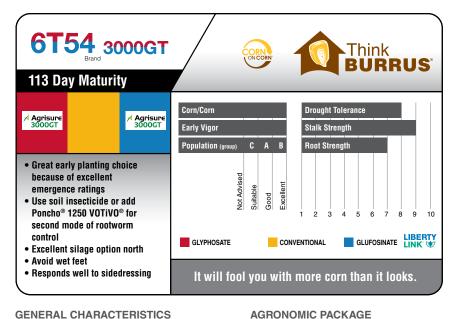
Grain quality: 7 (premium potential)

Test weight: 7 GDD to silk: 1400 GDD to 30%: 2750 Ear retention: 8 High tonnage silage: 8 Harvest residue: 8

# REFUGE

Integrated refuge

® Power Plus is a registered trademark of Pioneer. Power Plus brand is distributed by Burrus.



AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

**GENERAL CHARACTERISTICS** 

**POPULATION** 

31 - 37

27 - 33

27 - 33

23 – 29

31 – 37

Plant height: 7

Ear type: Intermediate

Speed of emergence: 7

High organic soils: 8

**PLANTING INFO** 

Timber soils: 9 Clay & varied soils: 9

Sand (dryland): 8

Sand (irrigated): 7

Wet soils: NR

Ear height: 6

Plant height: 8 Ear height: 6

**PLANTING INFO** 

Wet soils: 6

Ear type: Intermediate

LAMINA	I OI OLAIIO
Speed of emergence: 8	
High organic soils: 10	31 – 37
Timber soils: 8	27 – 33
Clay & varied soils: 8	27 – 33
Sand (dryland): 7	23 – 29
Sand (irrigated): 9	31 – 37

# **POPULATION**

# Goss's wilt: 7 Plant growth regulator sensitivity: NR Greensnap tolerance: 8

# **PROTECTION**

Fall appearance: 8

No. leaf blight tolerance: 7

Anthracnose tolerance: 8

Gray leaf spot tolerance: 6

Diplodia ear rot tolerance: 7

Nematode protection: Yes

# HARVEST INFORMATION

Grain quality: 7 (premium potential)

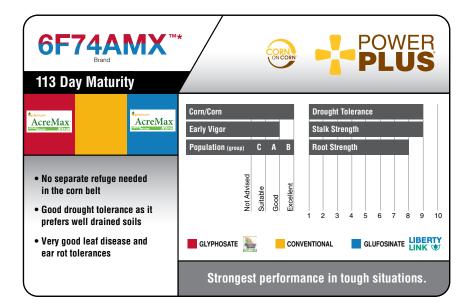
Test weight: 7 GDD to silk: 1470 GDD to 30%: 2900 Ear retention: 8 High tonnage silage: 9 Harvest residue: 9

# REFUGE

20% structured refuge

Burrus 6T51 GT, Power Plus® 4J99 R™\*

Power Plus® 6F71 R™\*



# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7

Ear type: Intermediate

#### **PLANTING INFO POPULATION** Speed of emergence: 8

High organic soils: 8 31 - 37Timber soils: 9 27 - 33 Clay & varied soils: 9 27 - 33Sand (dryland): 9 23 - 29Sand (irrigated): 7 31 - 37

Wet soils: 6

#### AGRONOMIC PACKAGE

Fall appearance: 9 No. leaf blight tolerance: 8 Anthracnose tolerance: 8 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7

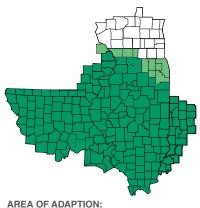
Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes



Dark Green - Primary Light Green - Secondary

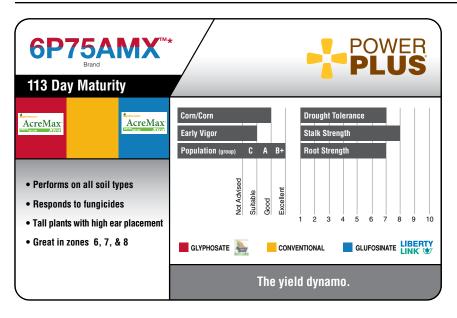
#### HARVEST INFORMATION

Grain quality: 8\* (premium potential)

Test weight: 8 GDD to silk: 1360 GDD to 30%: 2800 Ear retention: 9 High tonnage silage: 9 Harvest residue: 9

## REFUGE

Integrated refuge



# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 8

Wet soils: 8

Ear type: Intermediate

PLANTING INFO	POPULATION
Speed of emergence: 7	
High organic soils: 10	33 – 35
Timber soils: 7	29 – 31
Clay & varied soils: 7	29 – 31
Cond (dryland): 6	25 27

Sand (dryland): 6 Sand (irrigated): 10

33 - 35

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 8 Anthracnose tolerance: 7 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7

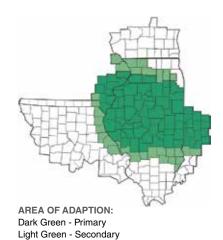
Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes



# HARVEST INFORMATION

Grain quality: 7 (premium potential)

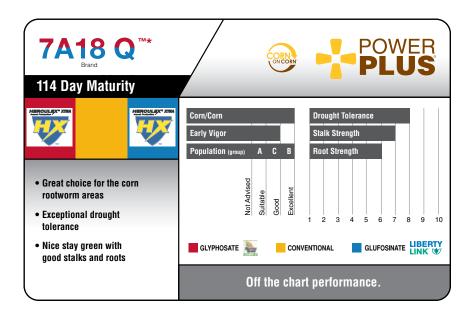
Test weight: 7 GDD to silk: 1400 GDD to 30%: 2750 Ear retention: 7

High tonnage silage: 10 Harvest residue: 8

# **REFUGE**

Integrated refuge

® Power Plus is a registered trademark of Pioneer. Power Plus brand is distributed by Burrus.



NEW

AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 8

Ear type: Intermediate

# **PLANTING INFO**

Speed of emergence: 8 High organic soils: 10 31 - 37Timber soils: 9 27 - 33Clay & varied soils: 9 27 - 3323 – 29 Sand (dryland): 9 31 - 37Sand (irrigated): 10

**POPULATION** 

Wet soils: 8

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 5 Anthracnose tolerance: 5 Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 8

Goss's wilt: NR

Plant growth regulator sensitivity: 6

Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes

# HARVEST INFORMATION

Grain quality: 9\* (premium potential)

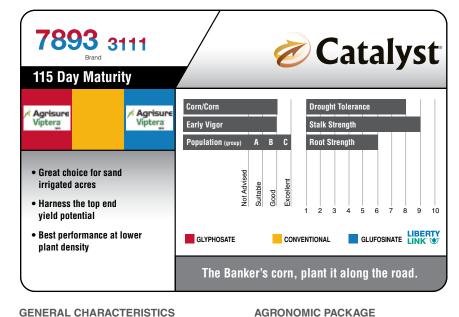
Test weight: 8 GDD to silk: 1450 GDD to 30%: 2900 Ear retention: 9 High tonnage silage: 10 Harvest residue: 10

# REFUGE

20% structured refuge

Power Plus® 6F71 RTM\*, Burrus 6T51 GT,

Power Plus® 4J99 R™\*



# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 6 Ear type: Flex

Wet soils: 8

# **PLANTING INFO** Speed of emergence: 8

High organic soils: 8 28 - 3426 – 32 Timber soils: 9 Clay & varied soils: 9 26 - 32Sand (dryland): 9 21 - 27Sand (irrigated): 9 28 - 34

**POPULATION** 

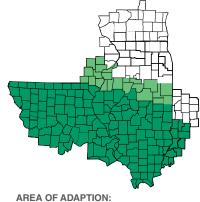
Fall appearance: 9 No. leaf blight tolerance: 7 Anthracnose tolerance: 7 Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: NR Goss's wilt: 8 Plant growth regulator sensitivity: NR

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 8

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Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

Grain quality: 7 Test weight: 8 GDD to silk: 1500 GDD to 30%: 2900 Ear retention: 9 High tonnage silage: 10

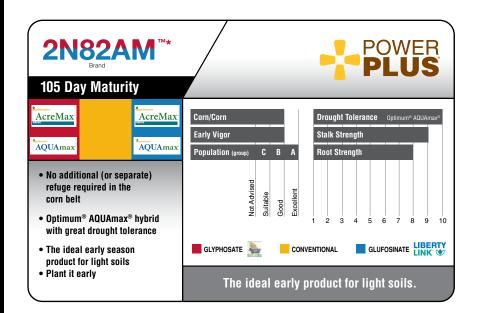
Harvest residue: 10

# REFUGE

20% structured refuge

Burrus 6T51 GT, Power Plus® 6F71 R™\*,

Power Plus® 4J99 R™\*





# **GENERAL CHARACTERISTICS**

Plant height: 5 Ear height: 5

Ear type: Intermediate

#### **PLANTING INFO POPULATION**

Speed of emergence: 7 High organic soils: 7 34 - 40Timber soils: 9 31 - 37Clay & varied soils: 9 31 - 37Sand (dryland): 9 26 - 32Sand (irrigated): 6 34 - 40

Wet soils: 8

#### AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 6 Anthracnose tolerance: 5 Gray leaf spot tolerance: 7

Diplodia ear rot tolerance: 7

Goss's wilt: 9

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes

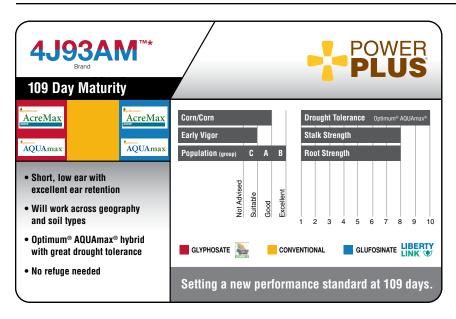
Water use efficiency technology: AOUAmax

#### HARVEST INFORMATION

Grain quality: 7 Test weight: 7 GDD to silk: 1310 GDD to 30%: 2680 Ear retention: 9 High tonnage silage: 5 Harvest residue: NR

## REFUGE

Integrated refuge



# AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Wet soils: NR

Ear type: Intermediate

PLANTING INFO	POPULATION
Speed of emergence: 7	
High organic soils: 9	31 – 37
Timber soils: 9	27 – 33
Clay & varied soils: 9	27 – 33
Sand (dryland): NR	23 – 29
Sand (irrigated): 9	31 – 37

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 8 Anthracnose tolerance: NR Gray leaf spot tolerance: 5 Diplodia ear rot tolerance: 5

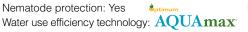
Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes

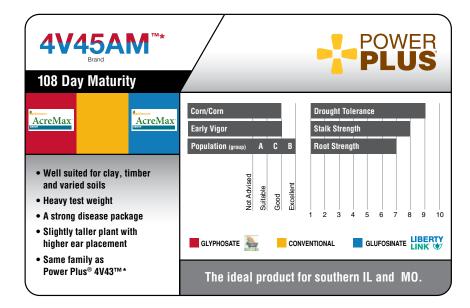


# HARVEST INFORMATION

Grain quality: 8 Test weight: 7 GDD to silk: 1340 GDD to 30%: 2750 Ear retention: 9 High tonnage silage: 5 Harvest residue: NR

# REFUGE

Integrated refuge





# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Ear type: Intermediate

# **PLANTING INFO**

Speed of emergence: 8 High organic soils: 10 Timber soils: 9 Clay & varied soils: 9 23 – 29 Sand (dryland): 8 31 - 37Sand (irrigated): 9

**POPULATION** 

Wet soils: 8

# AGRONOMIC PACKAGE

Fall appearance: 9 No. leaf blight tolerance: 7 Anthracnose tolerance: 7 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7 Goss's wilt: 8

Plant growth regulator sensitivity: 7 Greensnap tolerance: 5

# **PROTECTION**

Nematode protection: Yes

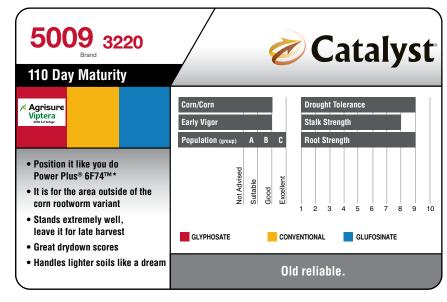
# HARVEST INFORMATION

Grain quality: 8 Test weight: 8 GDD to silk: 1340 GDD to 30%: 2800 Ear retention: 9 High tonnage silage: 7 Harvest residue: 7

# REFUGE

Integrated refuge

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# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 5 Ear type: Flex

# **PLANTING INFO** Speed of emergence: 8

28 - 34High organic soils: 7 Timber soils: 9 26 - 32Clay & varied soils: 9 26 - 32Sand (dryland): 9 21 - 27Sand (irrigated): 9 28 - 34Wet soils: 6

# **POPULATION**

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 8 Anthracnose tolerance: 7 Gray leaf spot tolerance: 5 Diplodia ear rot tolerance: 6 Goss's wilt: 7 Plant growth regulator sensitivity: 6

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 8



Dark Green - Primary Light Green - Secondary

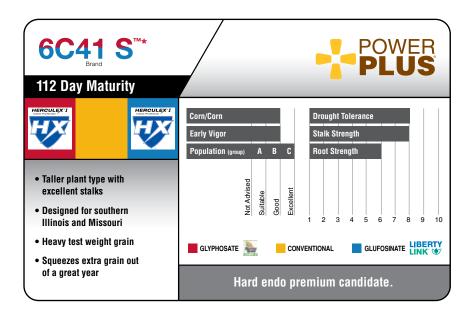
# HARVEST INFORMATION

Grain quality: 7 Test weight: 8 GDD to silk: 1450 GDD to 30%: 2750 Ear retention: 8 High tonnage silage: 6 Harvest residue: 5

# REFUGE

Integrated refuge

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#### **GENERAL CHARACTERISTICS**

Plant height: 9 Ear height: 8 Ear type: Flex

#### **PLANTING INFO POPULATION** Speed of emergence: 9

High organic soils: 9 28 - 34Timber soils: 9 26 - 32Clay & varied soils: 8 26 - 32Sand (dryland): 8 21 - 27Sand (irrigated): 9 28 - 34

Wet soils: 8

#### AGRONOMIC PACKAGE

Fall appearance: 9 No. leaf blight tolerance: 6 Anthracnose tolerance: NR Gray leaf spot tolerance: 8 Diplodia ear rot tolerance: NR Goss's wilt: 8

Plant growth regulator sensitivity: 6 Greensnap tolerance: 7

## **PROTECTION**

Nematode protection: Yes

#### HARVEST INFORMATION

Grain quality: 10\* (premium potential)

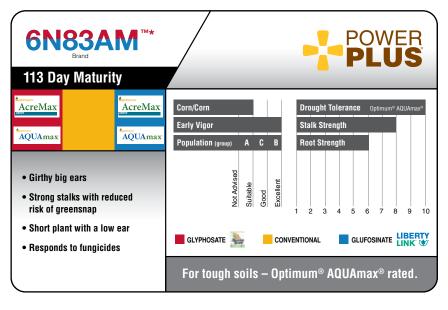
Test weight: 10 GDD to silk: 1460 GDD to 30%: 2850 Ear retention: 8 High tonnage silage: 8 Harvest residue: 7

# REFUGE

20% structured refuge

Power Plus® 6F71 RTM\*, Burrus 6T51 GT,

Power Plus® 4J99 R™\*



# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 6

Wet soils: 7

Ear type: Intermediate

PLANTING INFO	POPULATION
Speed of emergence: 7	
High organic soils: 8	31 – 37
Timber soils: 9	27 – 33
Clay & varied soils: 9	27 – 33
Sand (dryland): 8	23 – 29
Sand (irrigated): 8	31 – 37

# AGRONOMIC PACKAGE

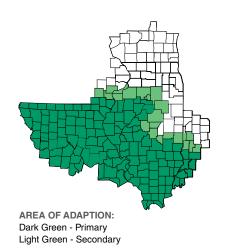
Fall appearance: 7 No. leaf blight tolerance: 7 Anthracnose tolerance: 6 Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 5 Goss's wilt: 8

Plant growth regulator sensitivity: NR Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes



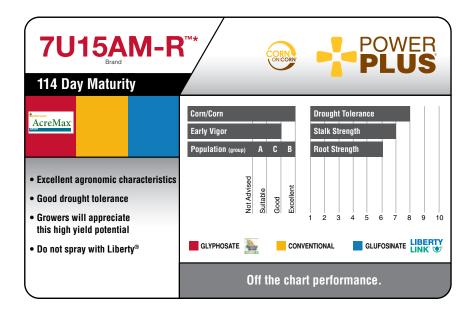


# HARVEST INFORMATION

Grain quality: 6 Test weight: 6 GDD to silk: 1450 GDD to 30%: 2740 Ear retention: 8 High tonnage silage: 6 Harvest residue: 7

# **REFUGE**

Integrated refuge





AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 8

Ear type: Intermediate

# **PLANTING INFO**

Speed of emergence: 8 High organic soils: 10 31 - 3727 - 33Timber soils: 9 Clay & varied soils: 9 27 - 3323 – 29 Sand (dryland): 9 31 – 37 Sand (irrigated): 10

**POPULATION** 

Wet soils: 8

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 5 Anthracnose tolerance: 5 Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 8

Goss's wilt: NR

Plant growth regulator sensitivity: 6

Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes

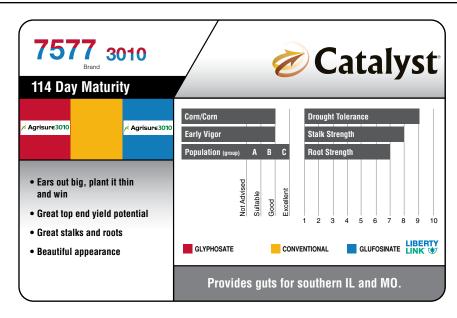
# HARVEST INFORMATION

Grain quality: 9\* (premium potential)

Test weight: 8 GDD to silk: 1450 GDD to 30%: 2900 Ear retention: 9 High tonnage silage: 10 Harvest residue: 10

REFUGE Integrated refuge

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# **GENERAL CHARACTERISTICS**

Plant height: 9 Ear height: 7 Ear type: Flex

Wet soils: 7

Speed of emergence: 8	
High organic soils: 7	28 – 34
Timber soils: 9	26 – 32
Clay & varied soils: 9	26 – 32
Sand (dryland): 9	21 – 27
Sand (irrigated): 0	20 24

#### **PLANTING INFO POPULATION**

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 7 Anthracnose tolerance: NR Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: NR Goss's wilt: 8 Plant growth regulator sensitivity: NR

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 8

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# NEW



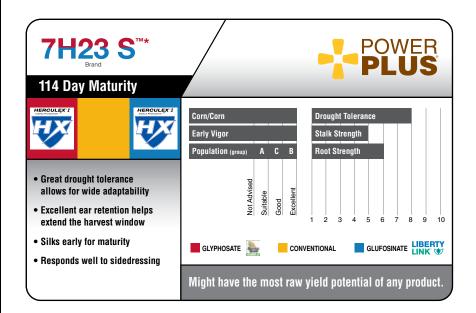
Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

Grain quality: 7 Test weight: 8 GDD to silk: 1480 GDD to 30%: 2850 Ear retention: 8 High tonnage silage: 8 Harvest residue: 8

# REFUGE

20% structured refuge Burrus 6T51 GT, Power Plus® 6F71 R™\*, Power Plus® 4J99 R™\*





# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 6

Ear type: Intermediate

#### **PLANTING INFO POPULATION**

Speed of emergence: 7 High organic soils: 10 31 - 37Timber soils: 9 27 - 33 Clay & varied soils: 9 27 - 33Sand (dryland): 8 23 - 29Sand (irrigated): 9 31 - 37

Wet soils: 8

#### AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 6 Anthracnose tolerance: 6 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7

Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

## **PROTECTION**

Nematode protection: Yes

#### HARVEST INFORMATION

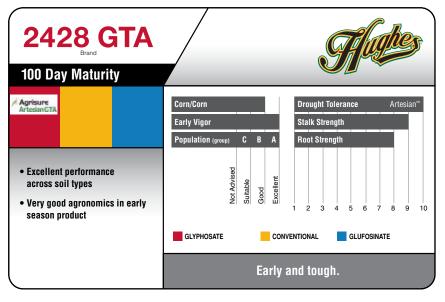
Grain quality: 7 Test weight: 7 GDD to silk: 1330 GDD to 30%: 2850 Ear retention: 9 High tonnage silage: 8 Harvest residue: 8

# REFUGE

20% structured refuge

Power Plus® 6F71 RTM\*, Burrus 6T51 GT,

Power Plus® 4J99 R™\*



# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7 Ear type: Flex

Wet soils: 8

PLANTING INFO	<b>POPULATION</b>
Speed of emergence: 8	
High organic soils: 9	34 – 40
Timber soils: 9	31 – 37
Clay & varied soils: 9	31 – 37
Sand (dryland): 8	26 – 32
Sand (irrigated): 9	34 – 40

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 6 Anthracnose tolerance: 7 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 6 Goss's wilt: 8

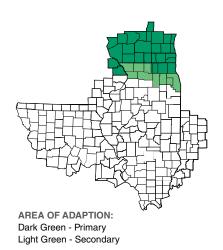
Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes

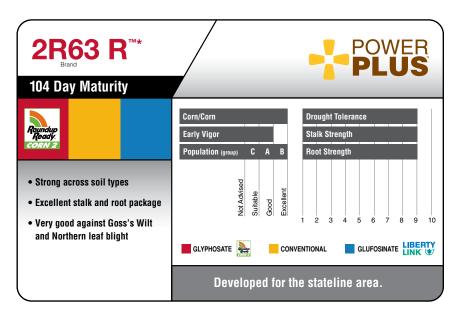
# Water use efficiency technology: Agrisure Artesian GTA



# HARVEST INFORMATION

Grain quality: 7 Test weight: 6 GDD to silk: 1250 GDD to 30%: 2400 Ear retention: 8 High tonnage silage: 8 Harvest residue: 8

# REFUGE





 $\mathsf{NEW}$ 

AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7

Ear type: Intermediate

# PLANTING INFO

Speed of emergence: 8
High organic soils: 9
Timber soils: 9
Clay & varied soils: 9
27 - 33
Sand (dryland): 8
23 - 29
Sand (irrigated): 9
31 - 37

**POPULATION** 

Wet soils: 9

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 9 Anthracnose tolerance: 7 Gray leaf spot tolerance: 8 Diplodia ear rot tolerance: 6 Goss's wilt: 9

Plant growth regulator sensitivity: NR Greensnap tolerance: 7

# PROTECTION

Nematode protection: Yes

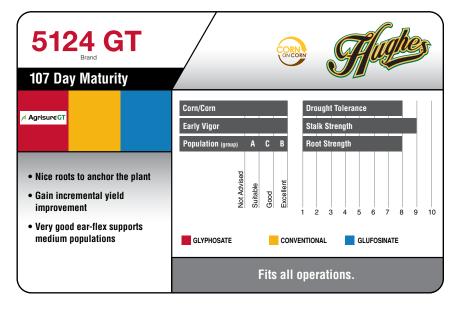
# HARVEST INFORMATION

Grain quality: 7 Test weight: 7 GDD to silk: 1360 GDD to 30%: 2550 Ear retention: 7 High tonnage silage: 8 Harvest residue: 7

# REFUGE

None needed

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# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 7 Ear type: Flex

# PLANTING INFO

Wet soils: 8

 Speed of emergence: 9

 High organic soils: 10
 31 – 37

 Timber soils: 9
 27 – 33

 Clay & varied soils: 9
 27 – 33

 Sand (dryland): 8
 23 – 29

 Sand (irrigated): 9
 31 – 37

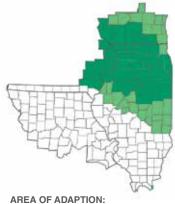
**POPULATION** 

# AGRONOMIC PACKAGE

Fall appearance: 8
No. leaf blight tolerance: 6
Anthracnose tolerance: 6
Gray leaf spot tolerance: 8
Diplodia ear rot tolerance: 6
Goss's wilt: 7
Plant growth regulator sensitivity: NR
Greensnap tolerance: 6

# PROTECTION

Nematode protection: Yes

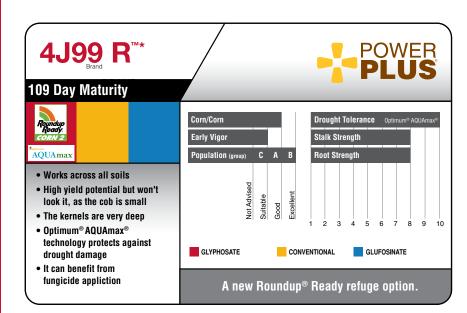


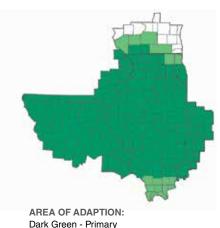
Dark Green - Primary
Light Green - Secondary

# HARVEST INFORMATION

Grain quality: 7
Test weight: 6
GDD to silk: 1350
GDD to 30%: 2700
Ear retention: 7
High tonnage silage: 10
Harvest residue: 9

# REFUGE





NEW

Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Ear type: Intermediate

**PLANTING INFO POPULATION** Speed of emergence: 7

High organic soils: 9 31 - 37Timber soils: 9 27 - 33 Clay & varied soils: 9 27 - 33Sand (dryland): NR 23 - 29Sand (irrigated): 9 31 - 37

Wet soils: NR

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 8 Anthracnose tolerance: NR Gray leaf spot tolerance: 5

Diplodia ear rot tolerance: 5

Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

## **PROTECTION**

Nematode protection: Yes

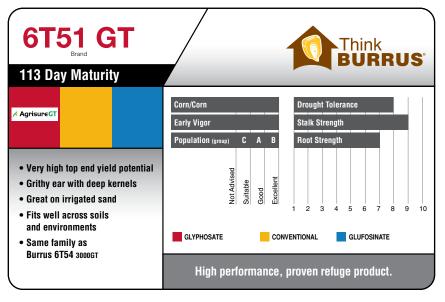
Water use efficiency technology: AQUAmax

# HARVEST INFORMATION

Grain quality: 8 Test weight: 7 GDD to silk: 1340 GDD to 30%: 2750 Ear retention: 9 High tonnage silage: 5 Harvest residue: NR

# REFUGE

None needed



# **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 6

Wet soils: 6

Ear type: Intermediate

PLANTING INFO	<b>POPULATION</b>
Speed of emergence: 8	
High organic soils: 10	31 – 37
Timber soils: 8	27 – 33
Clay & varied soils: 8	27 – 33
Sand (dryland): 7	23 – 29
Sand (irrigated): 9	31 – 37

# AGRONOMIC PACKAGE

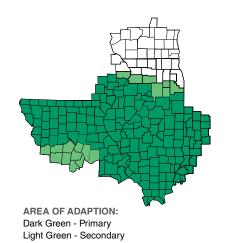
Fall appearance: 8 No. leaf blight tolerance: 7 Anthracnose tolerance: 8 Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 7 Goss's wilt: 7

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

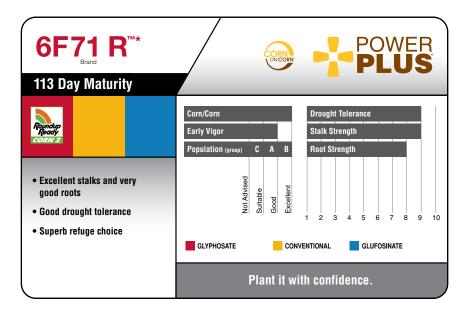
Nematode protection: Yes

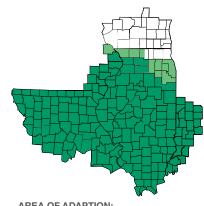


# HARVEST INFORMATION

Grain quality: 7 Test weight: 7 GDD to silk: 1470 GDD to 30%: 2900 Ear retention: 8 High tonnage silage: 9 Harvest residue: 9

# **REFUGE**





AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7

Ear type: Intermediate

# **PLANTING INFO**

Speed of emergence: 8 High organic soils: 8 31 - 3727 - 33Timber soils: 9 27 – 33 Clay & varied soils: 9 23 – 29 Sand (dryland): 9 Sand (irrigated): 7 31 - 37

**POPULATION** 

Wet soils: 7

# AGRONOMIC PACKAGE

Fall appearance: 9 No. leaf blight tolerance: 8 Anthracnose tolerance: 8 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7 Goss's wilt: 8

Plant growth regulator sensitivity: NR Greensnap tolerance: 8

# **PROTECTION**

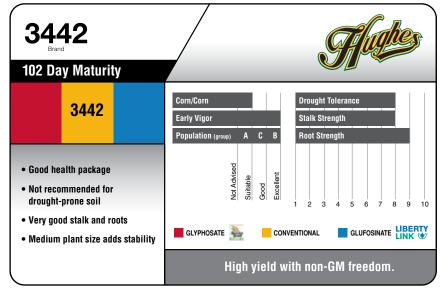
Nematode protection: Yes

# HARVEST INFORMATION

Grain quality: 8\* (premium potential)

Test weight: 8 GDD to silk: 1360 GDD to 30%: 2800 Ear retention: 9 High tonnage silage: 9 Harvest residue: 9

REFUGE None needed



# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 6 Ear type: Fixed

PLANTING INFO	<b>POPULATION</b>
Speed of emergence: 8	
High organic soils: 9	31 – 37
Timber soils: 9	27 – 33
Clay & varied soils: 8	27 33

37 33 33 Clay & varied soils: 8 Sand (dryland): 7 23 - 29Sand (irrigated): 9 31 - 37Wet soils: 9

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 7 Anthracnose tolerance: 8 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: NR Goss's wilt: 7 Plant growth regulator sensitivity: 5

# **PROTECTION**

Nematode protection: Yes

Greensnap tolerance: 7



AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# HARVEST INFORMATION

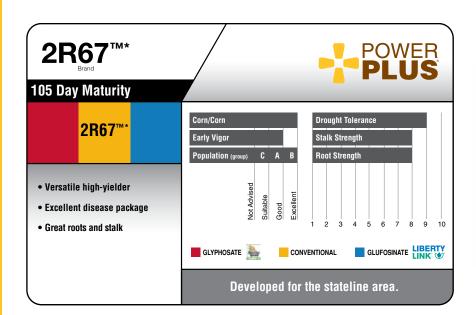
Grain quality: 7\* (premium potential)

Test weight: 7 GDD to silk: 1220 GDD to 30%: 2400 Ear retention: 9 High tonnage silage: 7 Harvest residue: 7

# **REFUGE**

None needed

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# AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

# **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7

Ear type: Intermediate

**PLANTING INFO POPULATION** Speed of emergence: 8 High organic soils: 9 31 - 37Timber soils: 9 27 - 33 Clay & varied soils: 8 27 - 33Sand (dryland): 7 23 - 29

31 - 37

Wet soils: 8

Sand (irrigated): 8

# AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 9 Anthracnose tolerance: 7 Gray leaf spot tolerance: 8 Diplodia ear rot tolerance: 6

Goss's wilt: 9

Plant growth regulator sensitivity: NR

Greensnap tolerance: 7

# **PROTECTION**

Nematode protection: Yes

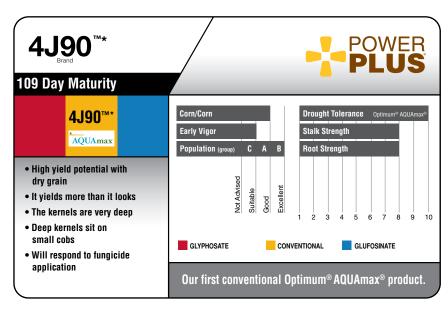
#### HARVEST INFORMATION

Grain quality: 7 (premium potential)

Test weight: 7 GDD to silk: 1360 GDD to 30%: 2550 Ear retention: 7 High tonnage silage: 8 Harvest residue: 7

# REFUGE

None needed



# **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Wet soils: NR

Ear type: Intermediate

PLANTING INFO	POPULATION
Speed of emergence: 7	
High organic soils: 9	31 – 37
Timber soils: 9	27 – 33
Clay & varied soils: 9	27 – 33
Sand (dryland): NR	23 – 29
Sand (irrigated): 9	31 – 37

# AGRONOMIC PACKAGE

Fall appearance: 7 No. leaf blight tolerance: 8 Anthracnose tolerance: NR Gray leaf spot tolerance: 5 Diplodia ear rot tolerance: 5

Goss's wilt: 8

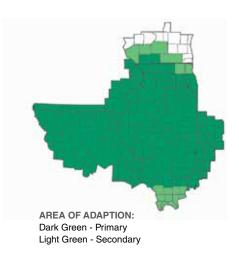
Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

# **PROTECTION**

Nematode protection: Yes





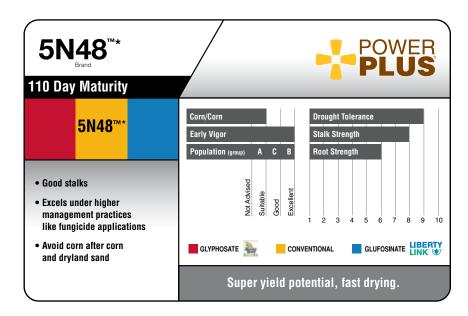
NEW

# HARVEST INFORMATION

Grain quality: 8 (premium potential)

Test weight: 7 GDD to silk: 1340 GDD to 30%: 2750 Ear retention: 9 High tonnage silage: 5 Harvest residue: NR

# REFLIGE





AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

#### **GENERAL CHARACTERISTICS**

Plant height: 6 Ear height: 6

Ear type: Intermediate

#### PLANTING INFO POPULATION

 Speed of emergence: 8

 High organic soils: 10
 31 – 37

 Timber soils: 8
 27 – 33

 Clay & varied soils: 8
 27 – 33

 Sand (dryland): 7
 23 – 29

 Sand (irrigated): 8
 31 – 37

Wet soils: 9

#### AGRONOMIC PACKAGE

Fall appearance: 8
No. leaf blight tolerance: 7
Anthracnose tolerance: 5
Gray leaf spot tolerance: 5
Diplodia ear rot tolerance: 7
Goss's wilt: NR

Plant growth regulator sensitivity: 8 Greensnap tolerance: 7

#### **PROTECTION**

Nematode protection: Yes

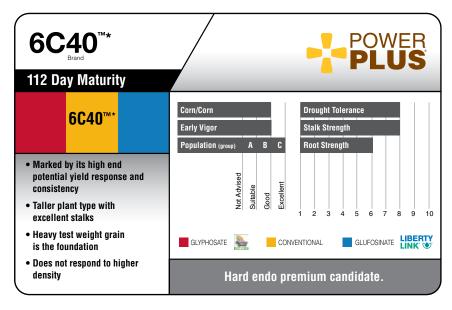
#### HARVEST INFORMATION

Grain quality: 9\* (premium potential)
Test weight: 8

GDD to silk: 1360 GDD to 30%: 2700 Ear retention: 8 High tonnage silage: 8 Harvest residue: 9

REFUGE

None needed



#### **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 7 Ear type: Flex

**PLANTING INFO** 

Wet soils: 8

Speed of emergence: 9							
High organic soils: 9	28 – 34						
Timber soils: 9	26 – 32						
Clay & varied soils: 8	26 – 32						
Sand (dryland): 8	21 – 27						
Sand (irrigated): 9	28 – 34						

**POPULATION** 

#### AGRONOMIC PACKAGE

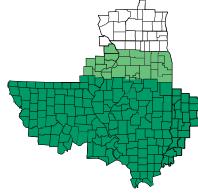
Fall appearance: 9
No. leaf blight tolerance: 6
Anthracnose tolerance: NR
Gray leaf spot tolerance: 8
Diplodia ear rot tolerance: NR
Goss's wilt: 8

Plant growth regulator sensitivity: 6

Greensnap tolerance: 7

### PROTECTION

Nematode protection: Yes



AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

#### HARVEST INFORMATION

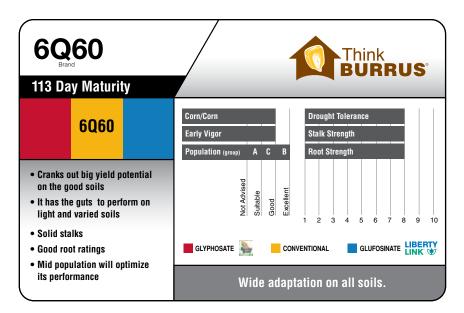
Grain quality: 10\* (premium potential)

Test weight: 10 GDD to silk: 1460 GDD to 30%: 2850 Ear retention: 8 High tonnage silage: 8 Harvest residue: 7

#### REFUGE

None needed

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NFW

#### **GENERAL CHARACTERISTICS**

Plant height: 8 Ear height: 6

Ear type: Intermediate

PLANTING INFOPOPULATIONSpeed of emergence: 77High organic soils: 831 – 37Timber soils: 827 – 33

Clay & varied soils: 9 27 – 33
Sand (dryland): 8 23 – 29
Sand (irrigated): 9 31 – 37

Wet soils: 8

#### AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 8 Anthracnose tolerance: NR Gray leaf spot tolerance: 6 Diplodia ear rot tolerance: 7

Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

#### **PROTECTION**

Nematode protection: Yes

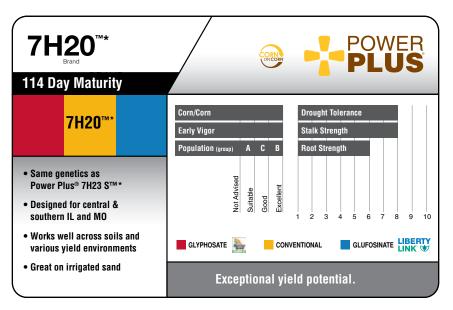
#### HARVEST INFORMATION

Grain quality: 7 (premium potential)

Test weight: 7 GDD to silk: 1470 GDD to 30%: 2800 Ear retention: 8 High tonnage silage: 9 Harvest residue: 6

#### REFUGE

None needed



#### **GENERAL CHARACTERISTICS**

Plant height: 7 Ear height: 6

Wet soils: 8

Ear type: Intermediate

PLANTING INFO	<b>POPULATION</b>
Speed of emergence: 7	
High organic soils: 10	31 – 37
Timber soils: 9	27 – 33
Clay & varied soils: 9	27 – 33
Sand (dryland): 8	23 – 29
Sand (irrigated): 9	31 – 37

#### AGRONOMIC PACKAGE

Fall appearance: 8 No. leaf blight tolerance: 5 Anthracnose tolerance: 6 Gray leaf spot tolerance: 7 Diplodia ear rot tolerance: 7

Goss's wilt: 8

Plant growth regulator sensitivity: NR

Greensnap tolerance: 8

#### **PROTECTION**

Nematode protection: Yes

NEW

AREA OF ADAPTION: Dark Green - Primary Light Green - Secondary

#### HARVEST INFORMATION

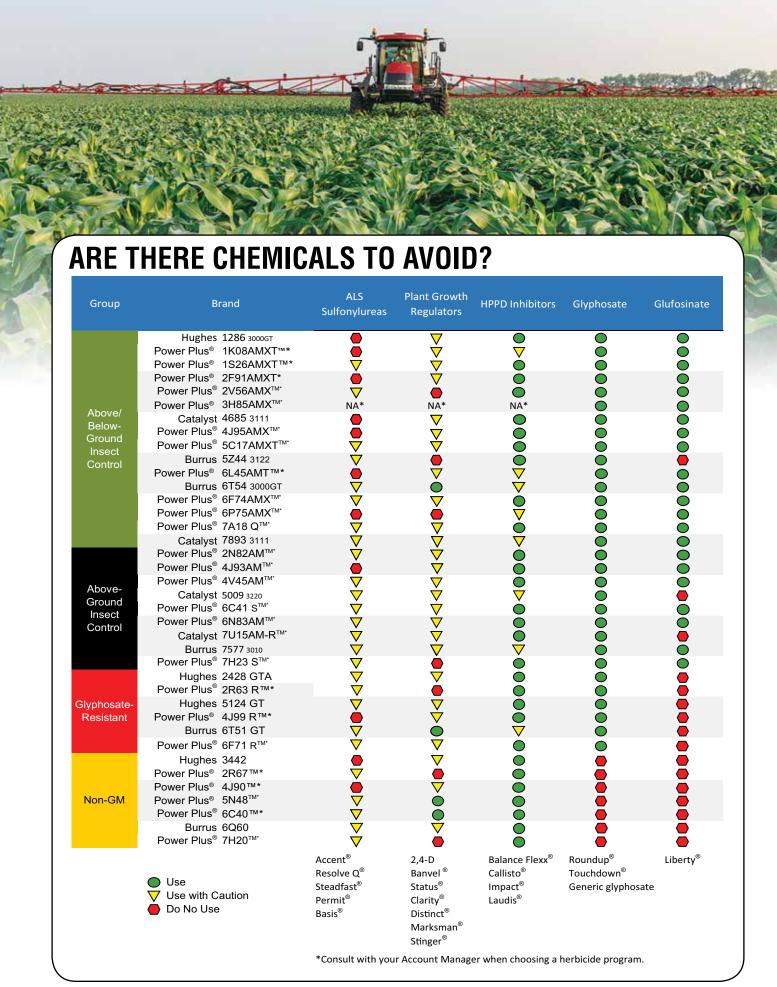
Grain quality: 7 (premium potential)

Test weight: 7 GDD to silk: 1330 GDD to 30%: 2850 Ear retention: 9 High tonnage silage: 8 Harvest residue: 8

#### REFUGE

None needed

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# RECOMMENDED PLANTING RATES FOR HYBRID SEED CORN

Soil Type	Α	В						
High organic soils	34-40,000	31-37,000						
Timber soils	31-37,000	27-33	,000		26-32,000			
Clay & varied soils	31-37,000	27-33	,000		26-32,000			
Sand (dryland)	26-32,000	23-29	,000		21-27,000			
Sand (irrigated)	34-40,000	31-37,000						
Brand Products	1K08AMXT™* 2428 GTA 2V56AM™* 2N82AM™* 2F91AMXT™*	4J90™* 4J93AM™* 4J95AMX™* 4J99 R™* 5C17AMXT™* 5124 GT 5N48™*  MXT™* and 6P75AM o 34,000 on high orga	_		4685 3111 5009 3220 5Z44 3122 6C40 <sup>TM*</sup> 6C41 S <sup>TM*</sup> 7577 3010 7893 3111			

Best standability is normally achieved at the lowest recommended rates

Allows for a 10% stand loss.

Soybean Planting Rates (1,000 seeds per acre)									
Row Width	7.5 inch	15 inch	30 inch						
Untreated	190-200	165-175	150-160						
PowerShield™ (fully treated)	160-170	135-145	125-135						

Use higher end of range in less than ideal conditions.

 $Burrus^{@}, Hoblit^{@}, and \ Hughes^{@} \ are \ registered \ trademarks \ of \ Burrus. \ \ ^{*} Power \ Plus^{@} \ Brand \ seed \ is \ distributed \ by \ Burrus. \ ^{*} Power \ Plus^{@} \ is \ a \ registered \ trademark \ of \ Pioneer \ Hi-Bred.$ 

# GUIDE TO ACCURATE SOYBEAN PLANTING

	Small to Normal Seed Size	Large Seed Size
	2500 seeds per pound or greater; 56 lbs. or less per 140k unit	2500 seeds per pound or less (1800 to 2500) 56lbs. Per 140K unit or more
John Deere Non-Vac (Finger Pickup Type Corn	Using Kinze Brush Meters - (2500 seeds/lb or More) Black Brush Type 60 Cell Seed Metering Plate	Using Kinze Brush Meters - (2500 seeds/lb or Less) Blue Brush Type 48 Cell Seed Metering Plate
Planters) *1 *4 *5	Using Radial Metering Bean Plate - (3700 - 4500 seeds/lb) setting "A"; (2800 - 3700 seeds/lb) setting "B"	Using Radial Metering Bean Plate - (2000 - 2800 seeds/lb) setting "C"
Kinze Non-Vac	(2500 seeds/lb or More) Black Brush Type 60 Cell Seed Metering Plate	(2500 seeds/lb or Less) Blue Brush Type 48 Cell Seed Metering Plate
John Deere Vac Planters *3 *1 *5	Only one disk option - Vacuum setting at 8	Only one disk option - Vacuum setting at 9 (test and adjust accordingly)  If feeding problems persist - remove the elbow from the hose feeding the hopper
Kinze Vac Planters *2 *1 *5	Use 60 cell plate - Singular setting of 5 - Vacuum setting at 10	Use 60 cell plate - Singular setting of 5 - Start vacuum setting at 10 (test and adjust accordingly)
	(2600 - 3500 seeds/lb) 193017A1 disc - Singulator setting at 8 - Vacuum at 15-17* (3500 - 4500 seeds/lb) 87420630 disc or comparable - Singulator setting at 8 - Vacuum at 15-17* (2500 - 3500 seeds/lb) 87698875 disc or comparable - Singulator setting at 8 - Vacuum at 15-17*	(2000 - 3500 seeds/lb) 87698875 disc or comparable - Singulator setting at 8 - Vacuum at 15-17*
White Vac Planters *7 *1 *5	(3000 - 4500 seeds/lb) Use 7000722513 (120 cell) disc - Air pressure at 1 - 3** (2000 - 3500 seeds/lb) Use 852432 (120 cell) disc for 30 * rows - Air pressure at 2 - 2.5** (2000 - 3500 seeds/lb) Use 852433 (60 cell) disc for 15* rows - Air pressure at 2 - 2.5**	(2000 - 3500 seeds/lb) Use 852432 (120 cell) disc for 30 " rows - Air pressure at 2 - 2.5" (2000-3500 seeds/lb) Use 852433 (60 cell) disc for 15" rows - Air pressure at 2 - 2.5" (test and adjust accordingly)
*1 Consult the operator's manual for add	ditional talc/graphite recommendations	*5 Adjust speed as directed in the operator's manual
*2 One TRSP of graphite per hopper for a	a standard 2 bu hopper, and 1-1.5 lbs of graphite per 50 unit container	*6 Consult the operator's manual for seed disc RPM recommendations

# **GUIDE TO ACCURATE SEED CORN PLANTING**

John Deere Finger Pickup Kinze Finger Pickup *1	Reduce speed 10% 35-39#, Reduce speed by 33% below 35#
John Deere Vacuum Pickup	A50617 40-88#, A43215 25-50#, H136478 25-35#
Case IH & IHC Early Riser	Corn Drum 30-80#, Popcorn Drum less than 35#,
	New E pocket drum for problem sizes
Case IHC 1200	4855 Disc for 30-70#, 4845 disc below 50#
New Holland SP Series	
Ford or White Air 5400	247396B 57-73#, 247454B 42-62# 247535B 28-50#
White Air 5100	247917B 57-73#, 247707B 42-62#, 248505B 28-50#, 247957B 22-33#
White Air 6000	852434 57-73#, 852435 42-62#, 852436 25-50#, 852437 22-33#
New Idea 9000	
Deutz Allis	Seed Disc X Large (585805) 59# & over, Large (586141) 45-60#, Medium (585807) 39-52#, Sm/Medium (1501872) 30-39#, Small (587485) 30# & Jess



For the PowerShield® Round sizes (PSR) or the Burrus Xtra Round (BXR). Use the chart above for setting your planter.

S	Seed Size Weight per 80,000 kernel unit		SureDrop 2 Under 30#	SureDrop 3 30-39#	SureDrop 4 40-49#	SureDrop 5 50-59#	SureDrop 6 60# and over	SureDrop 7 70# and over
TER	Burrus Xtra seed treatment (Poncho® 500)** Burrus Xtra seed treatment (Poncho® 500)**		BX2	ВХ3	BX4	BX5	BX6	BX7
			PS2	PS3	PS4	PS5	PS6	PS7
Ż	High rate Poncho (Poncho 1250)**		HP2	HP3	HP4	HP5	HP6	HP7
4	John Deere/Kinze Finger Pickup *1*7	Max. Speed *2	66% *3	66-90% *3 *5	100%	100%	100%	100%
굽	John Deere Vacuum Pickup *6	Disc Size	A43215	A43215	A43215 A50617	A50617	A50617	A50617
		Vacuum Inches	7-13	7-12	10-13 7-10	9-13	10-13	13-15
SS	Kinze Edge Vac *7	Disc Size	Regular Corn	Regular Corn	Regular Corn	Regular Corn	Regular Corn	Regular Corn
Ш		Vacuum Inches *8	not recommended	20	20	20	20	20
		Singulator *8	not recommended	8	8	8	8	5
핕	Case IH	Drum	Popcorn or Corn *5	Popcorn Corn *5	Corn	Corn	Corn	Corn
	and IHC Early Riser	Hopper Pres. *4	8-9 oz.	10 oz. 8-9 oz.	9-10 oz.	10-12 oz.	12 oz. max	12 oz. max
4		Brush Setting	1/2 down	Wire down up	Lt. Contact	Down	Remove	Remove
굽	Case IHC 1200 *7	Disc Size	4845 4855	4845 4855	4855	4855	4855	4855
	New Holland SP Series	Vacuum	20 18	22 18	20	20	20	20
Œ		Singulator	1.5 1.75	1.75 1.75	1.75	1.75	1.75	1.75
<b>P</b>	White Air 6000	Disc Size	852436	852436	852436	852435	852434	852434
ш.	New Idea 9000			or 852437	or 852437	or 852435		

- \*1. Also for Black Machine, Great Plains, Buffalo Finger Pickup, JD1535 drill.
- $^{\star}2.$  For maximum planter speed, multiply the percentage shown times recommended speed range in operator's manual.
- \*3. Worn ripples on the carrier plate can increase overdrop drastically.
- \*4. For IHC Cyclo Air models, deduct 1 ounce of air pressure.
- \*5. Recommendation does not fit every weight in this SureDrop size. Consult recommended weight range above or on your operator's manual.
- \*6. Consult operator's manual for talc recommendation. Double recommendation for Poncho treated seed.
- ${}^{\star}7$ . Consult operator's manual for graphite recommendation.
- \*8. Check field performance for specific settings

For other plate planter recommendations, call our office toll free at (877) 4 BURRUS. PS6's and PS7's will be packaged in 40,000 kernel bags, sold as 80,000 units so two bags equal one unit when they weigh above 67.5 lbs/80M

\*\*Always use talc or graphite liberally for lubricant to avoid bridging in the planter box.



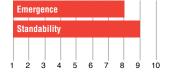


201 Brand



**Maturity 2.1** 

- · Comes from a good family
- · Early yield power
- Very good white mold score
- Brown Stem Rot (BSR) resistant
- · Widely adapted
- · Avoid fields with history of severe SCN



NEW





### Maturity 2.1



- Early line with well-rounded stats
- Excellent emergence
- Medium height with thin plant type
- Thin plant type, good on disease
- Protect yield potential with PowerShield® Treatment
- Excellent early performance zones 5, 4, and 3
- Solid White Mold score



24P4TM\*

# Glyphosate

## Maturity 2.4

- · Outstanding Peking SCN resistance
- Excellent Phytophthora resistance & field tolerance
- Exceptional emergence and standability
- Above average plant height and canopy
- Excellent Frogeye package with reduced shattering potential
- Excellent broad disease package



NEW

25A5<sup>TM\*</sup>Brand



**Glyphosate** 

# Maturity 2.5

- · Mid-season workhorse
- Versatile 2.5 line
- · Widely adapted
- · Medium plant type with good branching
- Consider PowerShield® SDS for fields with history of severe disease
- · High tolerance to Brown Stem Rot

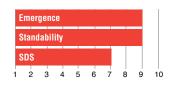


555RR Brand



## Maturity 2.5

- · Very showy appearance
- Tremendous performance
- · Cyst resistance is very good
- · Excellent agronomics
- Best choice for stress-prone areas
- · Plant in narrow rows



NEW

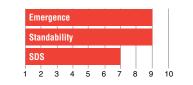
26**Z5** TM\* Brand



### Maturity 2.6

• Great all-around performance potential

- · Plant in all environments
- · Broad disease package
- Multi-race Phytophthora resistance (Rps1k)
- · Average charcoal rot ratings
- Outstanding Brown Stem Rot ratings
- · Above average tolerance to aphids
- · Excellent harvest standability





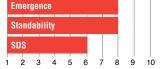
28H5<sup>TM\*</sup>Brand



## Maturity 2.8

# Glyphosate

- Game changing yield potential in Group 2
- Think Power Plus® 25G3™\* appearance with more yield potential
- · Works well on better soils
- Compact plants with wide canopy
- Excellent shattering and Frogeye scores
- Great emergence and standablility ratings
- · Good Phytopthera multi race scores



28V2TM\*Brand

# Maturity 2.8

· "Good as gold!"

Emergence

**Standability** 

SDS

• Tremendous yield punch with

above average plant height

· Average charcoal rot ratings

· Excellent harvest standability

• Very good SCN races 3 and 14 resistance

• Multi-race Phytophthora resistance (Rps1k)

Outstanding Brown Stem Rot ratings

Above average tolerance to aphids

# POWER

# Glyphosate

# Maturity 3.0

30B5<sup>TM\*</sup>Brand

# POWER PLUS **Glyphosate**

- · Impressive yield statistics
- Best on your most productive, less drought prone soils
- If you have a history of SDS, use this bean
- · Average plant height and canopy width
- · Shattering and standability ratings, simply amazing
- Sturdy hypocotyl and fantastic emergence
- Great Downy mildew scores
- Great SCN protection for race 3 and 14 (PI88788)



Emergence

# POWER PLUS Glyphosate

# **34T3**<sup>TM\*</sup>Brand



Glyphosate

# 35Z6<sup>TM\*</sup>Brand

**NEW** 

## Maturity 3.2

32D5<sup>TM\*</sup>Brand

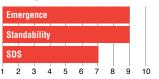
## • Durable bean, well suited for moderate to highly productive soils

- A little taller than Power Plus® 32K0™\*. with a wider canopy
- · Excellent emergence, great standability
- Good Frogeye protection
- Great SCN race 3 resistance (PI88788)
- Excellent broad disease package



# Maturity 3.4

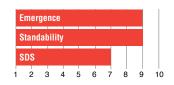
- Exceptional field emergence scores
- · Great harvest standability
- SCN resistance with PI88788 (Race 3)
- Multi-race Phytophthora resistance (Rps1K)
- Good tolerance to SDS
- Impressive BSR package
- Performs best on good soils but will work everywhere



# Maturity 3.5

### • Prefers medium to high productivity soils

- Incredible yield potential
- · Holds back phytopthera
- · Good standability
- · Our first RR2 Yield bean





36J3<sup>TM\*</sup>Brand Glyphosate Maturity 3.6 · Landlady eye appeal PowerShield® · Very good SCN resistance • Ultra high yield potential on all soil types Good Phytophthora and SDS resistance · Works on all environments · A new leader for this maturity • Available with PowerShield® SDS treatment Emergence **Standability** 

37N5<sup>TM\*</sup>Brand

Maturity 3.7

drained soils

fungicides

Emergence

Standability

· Brings incredible yield potential

and conventional till fields

· Expands the yield envelope in minimum

. Consider scouting as it responds to

· Average plant height and canopy width

• Race 3 & 14 SCN resistance (PI88788)

· Great emergence scores with a stout hypocotyl

#### **Glyphosate** Maturity 3.8

# **Glyphosate**

38D2<sup>TM\*</sup>Brand

locations

- Well suited for less productive, well
  - Excellent field emergence scores
    - Slightly above average plant height and canopy width
    - Outstanding SCN race 3 resistance
    - Multi-race Phytophthora resistance (Rps1k)
    - · Very good shattering resistance

• Very stable performance across

- · Excellent harvest standability
- · Works on all environments



POWER PLUS 38K6<sup>TM\*</sup>Brand **Glyphosate** Maturity 3.8 · Prefers better drained soils • Yield, yield, yield potential · A Missouri bean · Grows off rapidly after quick emergence • 5 bushels better than Power Plus® 38D2™\* Very good SDS tolerance Emergence

NEW

Standability

2 3 4 5 6

NEW

39R5<sup>TM\*</sup>Brand

# POWER Glyphosate

# Maturity 3.9

- Expect a yellow flash
- · Exceptional yield potential across all yield environments
- Incredible Frogeye scores
- If you struggled with stem canker in the past, this bean is for you!
- · Brown spot resistance
- · Good Downey mildew tolerance
- · Great emergence and good standability



41M4<sup>TM\*</sup>Brand

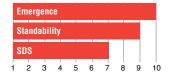
# Glyphosate

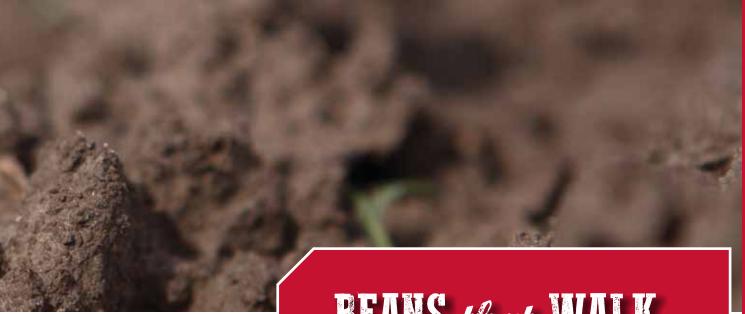
# Maturity 4.1

· Really strong field emergence scores



- · Great harvest standability
- Great SCN resistance with PI88788
- · Really good phytophthora tolerance
- Very good tolerance to SDS
- Performs best on better soil types/higher yielding environments
- A possible "kink in the armor" with Frogeye leaf spot
- Available with PowerShield® SDS





NEW

42V6<sup>TM\*</sup>Brand



# Maturity 4.2

**Glyphosate** 

- · Good defensive traits across all soils
- Specifically good on Phyopthora, SCN, stem canker (Frogeye)
- Great yield potential
- · Low shattering
- · Very good standability
- · Fast emergence



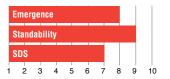
NEW

46A5<sup>TM\*</sup>Brand

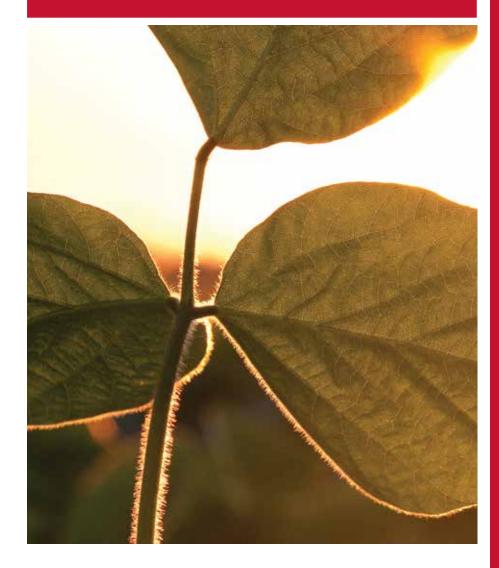


## Maturity 4.6

- Pummels the competition with remarkable yield potential
- Great on low yield environments
- Great in high yield situations, too
- May yellow flash when sprayed with Roundup®
- Average height but exceptionally wide canopy for early row closure
- · Stands well and holds shattering back
- A great bean if you fought stem canker in the past



BEANS that WALK
the WALK without
BEING WALKED.





# LibertyLink® Soybeans

LibertyLink® soybeans with Liberty® herbicide is the most reliable management solution for weeds resistant to glyphosate and multiple herbicide classes.

LibertyLink soybean varieties combine elite genetics and excellent crop safety with built-in tolerance to the powerful, postemergence weed control of Liberty. High-yielding LibertyLink soybean varieties are available in a range of maturities.

Liberty herbicide, applied over the top of LibertyLink soybean varieties, provides powerful control of broadleaf and grass weeds, protecting grower's yield, profit and the long-term success of their operation.

# LibertyLink® Patent Statement

Soybean seeds containing LibertyLink® are protected under multiple U.S. patents and may be planted only to produce one (1) commercial crop, and only after signing a Bayer Grower Technology Agreement. It is illegal to save or catch soybean seeds containing the LibertyLink trait for use as planting seed or for transfer to others for use as planting seed.

# **Liberty® Herbicide**

Every missed weed can impact yield. With Liberty, your toughest weeds are better controlled with a different chemistry and unique mode of action. Spraying Liberty herbicide in-crop provides nonselective postemergence control of even the toughest weeds, including Palmer amaranth, giant ragweed, waterhemp and marestail.

# Respect the Rotation™ Statement

Respect the Rotation<sup>™</sup> is an initiative to elevate the importance and grower adoption of herbicide diversity to prevent or manage weed resistance. Glyphosate weed resistance is a dominating threat throughout the United States that affects land values, rental agreements, conservation tillage and can greatly reduce yields. The use of Integrated Weed Management practices, such as use of residuals, pre-emergence herbicides and rotation of crops, traits and herbicides, is critical as no one method is likely to be completely successful.

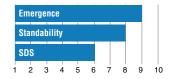




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# 236LL Brand Maturity 2.3 NEW LIBERTY LINK

- · Versatile early LL line
- Plant on any soil type
- Yield performance is excellent
- Medium tall plant type that branches well
- Very good broad-spectrum disease package







performs

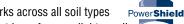






## Maturity 2.8

Works across all soil types



- Great bean for your lighter soils
- · Average plant height with wide canopy
- · Emerges quickly and shatters little
- · Exceptional disease resistance, Phytopthera, and Brown Stem Rot protection
- · Great against SDS, white mold and SCN (PI88788)
- · Great lodging score, too



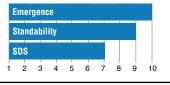
# Hoblit 355LL Brand



Power**Shield** 

# Maturity 3.5 Performs well across environments

- · Excels on light soils
- Average plant height and wider than average canopy width
- · Exceptional disease package so you can rest easy
- · Good Phytopthera (Rsp 1k), BSR and SDS protection
- · Outstanding scores on charcoal and Frogeye
- · Some of the best emergence, shattering and lodging scores



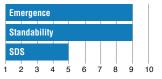
# Hoblit 384LL Brand

# LIBERTY

Power**Shield** 

## Maturity 3.8

- Fantastic trials in 2012 (#1 - 6 to 7 bushels above)the mean)
- · Exceptional emergence
- · Short bean but good score on light soils
- Nice bean for those a little "shattering shy" after 2012
- Great standability
- · Good Phytophthora scores
- Available with PowerShield® SDS



## Hoblit 405LL Brand



Power**Shield** 

### Maturity 4.0

- · Exceptional emergence with average height and width
- Works well across all soils
- · Exceptional on lighter soils
- Great bean for the shatter shy
- Exceptional standability
- Great Phytopthera tolerance (Rps 1c) so don't worry about resistance
- · Very good Frogeye as well as Root Knot tolerance
- SCN resistance (PI88788)



#### NEW

# Hoblit 426LL Brand



# Maturity 4.2

- · Stands well with average plant height
- Power**Shield**
- · Fast emergence
- · Great disease package
- · Higher yields
- Works across soil types



#### NEW

# Hoblit 456LL Brand

# HOBLIT LIBERT

# Maturity 4.5

Very versatile



- · Great scores for lodging and Sudden Death Syndrome
- More yield
- · Great start with fast emergence
- . Taller than average, short for a group 4





# PROTECTION OF INTELLECTUAL PROPERTY: PVPA AND PATENTS

"Buyer represents he is purchasing the Seed solely for purposes of producing a grain crop, and the Seed, and any product from the Seed, shall not be resold or used as Seed."

The purchase of this seed does not, and shall not be construed to, transfer ownership of any Plant Variety Protection Act rights, patent rights and other intellectual property rights associated with a Soybean Product. Burrus and Hughes shall take all measures requested by our suppliers (e.g., labeling, requiring contractual agreement with its customers, etc.) to protect the PVP and/or intellectual property rights relating to a Soybean Product.

Burrus and Hughes shall print on all bags, tags, brochures and order forms for each Soybean Product which is subject to protection under the Plant Variety Protection Act and/or Patent Act, as applicable:

For Soybean Product on which a PVP certificate has issued or for which such a certificate has been applied: will be labeled as such. Unauthorized Sales for Reproductive Purposes Prohibited.

For Soybean Product on which a U.S. patent has issued or for which a patent has been applied will be labeled as such.

"By contract, use or sale as seed of the product derived from this seed is prohibited."

Always follow grain marketing, stewardship practices and pesticide label directions. Varieties that are glyphosate tolerant (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

use a third–party to conduct IRM compliance assessments for a randomly selected set of customers who purchased Bt hybrids as well as Genuity® Roundup Ready 2 Yield soybeans. Following each on-farm assessment, it will be determined if the grower is in compliance. If a grower is found to be out of compliance, Burrus will contact the grower prior to the next growing season to provide compliance assistance. Anyone found to be out of compliance will be checked the following two years. Repeated non compliance can result in loss of access to these technologies.













#### SOYBEAN RATINGS AND CHARACTERISTICS Soybeans with Soybean Cyst Herbicide Shattering Phytopthera Stem Rot Death (SDS) Leaf Spot Canopy Light glyphosate tolerant gene Maturity Nematode Tolerance Emergence Standability (PRR) (BSR) Tolerance Mold Chlorosis Width Height Soils Pubescence Score Tolerance L. Tawny Hughes Brand 201RR 2 1 None RR 6 10 NR Power Plus® Brand 21R6<sup>TM\*</sup> NEW PI88788 RR 9 NR NR 6 2.1 L. Tawny Power Plus® Brand 24P4<sup>™</sup> Peking L. Tawny RR **Hughes Brand 555RR** PI88788 L. Tawny NIR Power Plus® Brand 28V2<sup>™</sup> 2.8 PI88788 RR 9 9 7 5 8 7 9 6 4 8 L. Tawny Power Plus® Brand 28H5<sup>TM\*</sup> PI88788 2.8 RR 8 8 5 6 Gray Power Plus® Brand 30B5<sup>™\*</sup> 3.0 PI88788 RR NR L. Tawny Power Plus® Brand 32D5™ PI88788 Power Plus® Brand 34T3<sup>™</sup> PI88788 wer Plus® Brand 35Z6<sup>TM\*</sup> NEW Power Plus® Brand 36J3<sup>TM\*</sup> PI88788 9 9 8 6 Power Plus® Brand 37N5<sup>™\*</sup> 7 3.7 PI88788 RR 8 7 NR 4 9 6 5 5 8 Grav Power Plus® Brand 38D2<sup>TM\*</sup> PI88788 L. Tawny Power Plus® Brand 38K6<sup>TM\*</sup> NFW PI88788 NR Power Plus® Brand 39R5<sup>TI</sup> Power Plus® Brand 41M4<sup>1</sup> PI88788 Power Plus® Brand 42V6<sup>TM\*</sup> NEW 4.2 RR L. Tawny

LibertyLink® gene	Maturity	Soybean Cyst Nematode	Herbicide Tolerance	Emergence	Standability	_	Phytopthera (PRR)	Stem Rot (BSR)	Death (SDS) Tolerance	Leaf Spot Tolerance	White Mold	Iron Chlorosis	Canopy Width	Plant Height	Light Soils	Pubescence
Hughes Brand 236LL NEW	2.3	PI88788	LL	9	8	9	6	7	6	NR	6	8	7	7	6	L. Tawny
Hughes Brand 266LL NEW	2.6	PI88788	LL	9	8	9	6	8	6	NR	6	6	7	7	6	L. Tawny
Hughes Brand 285LL	2.8	PI88788	LL	10	9	9	8	8	7	NR	7	7	7	6	8	Gray
Hoblit Brand 355LL	3.5	PI88788		10			8	8		8		8			8	L. Tawny
Hoblit Brand 384LL	3.8	PI88788					8	NR			NR			8		L. Tawny
Hoblit Brand 405LL	4.0	PI88788	LL	10	9	9	8	8	7	8	7	7	6	6	8	L. Tawny
Hoblit Brand 426LL NEW	4.2	PI88788	LL	10	9	9	8	8	8	8	7	NR	6	6	8	L. Tawny
Hoblit Brand 456LL NEW	4.5	PI88788	LL	10	9	9	8	7	7	6	NR	NR	6	6	8	L. Tawny
Ratings: 10 = Best, 1 = Poorest, NR = N	lot Rated					*Power Plus	s® brand seed	is distribute	ed by Burrus.	Power Plus	is a regist	ered tradem	ark of Pio	neer Hi-P	red.	

9

6

6

NR

Frogeye

IMPORTANT: Characteristic scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sol by Burrus. Information and scores are assigned by Burrus and are based on period-of-years testing through 2014 harvest and were the latest available at time of printing, Some scores may change after 2015 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

#### **POWERFUL SOYBEANS**

Power Plus® Brand 46A5<sup>TM\*</sup>

4.6

PI88788

RR

8

9

Growers from Kansas City, MO, to Madison, WI, are increasing their acres of Power Plus®, Hughes and Hoblit soybeans. The reasons are simple — quality seed, excellent service and top yields. If you have not tried our soybeans yet, find out what you have been missing.

# **SOYBEAN PLANTING RATES (1,000 SEEDS PER ACRE)**

Row Width	7.5 inch	15 inch	30 inch
Untreated	190-200	165-175	150-160
PowerShield™ (fully treated)	160-170	135-145	125-135

Use higher end of range in less than ideal conditions.

THE PERFECT HYBRID of TECHNOLOGY and TRADITION. Tawny



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separate corn borer refuge must be planted with Optimum AcreMax Xtra products. YGCB, HX1, LL. RR2 (Optimum® Intrasect®) — Contains the YieldGuard® Corn Borer gene and Herculex® I gene for resistance to corn borer. RW, HX1, LL, RR2 (Optimum® TRIsect®) —Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm. RW, YGCB, HXX, LL, RR2 (Optimum® Intrasect® XTreme) — Contains the Agrisure® RW trait, the YieldGard Corn Borer gene, and the Herculex® XTRA genes for resistance to corn borer and corn rootworm. Optimum® Intrasect® Xtreme will be the major component of Optimum® AcreMax® XTreme. AMXT (Optimum® AcreMax® XTreme) — Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products.

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Caution: Do not spray E-Z Refuge® products with glufosinate ammonium based herbicides. including Ignite® or Liberty® brand herbicides.

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Before opening a bag of seed, be sure to read, understand and accept the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with the most recent stewardship requirements









Intrasect<sup>®</sup>































# WHAT MAKES THE BEST SEED TREATMENT IN THE WORLD?

In today's world, Burrus believes that exceptional seed begins with not only outstanding seed quality, but also that our seed should be protected by the latest seed treatment components that science has to offer. We are proud to be known for our high seed quality, and protect it with our PowerShield® seed treatment packages made up of components based on proven testing under cold, wet conditions in many environments over multiple years.

Not all seed treatments are the same, nor are they equal. PowerShield seed treatment on corn and soybeans consists of biologicals due to BioStacked® technology, which is a result of Becker Underwood's proprietary research that combines complimentary biological components to achieve greater yield, an even stand in adverse conditions, as well as a rapid early growth response due to enhanced root growth and uptake of nutrients.

PowerShield seed treatment on corn consists of an insecticide. multiple fungicides, nematicides, and biologicals. Often times our competitors have Poncho® or Cruiser® 250 standard as their corn seed treatment. However, at Burrus, Poncho/ VOTiVO 500 is standard on our Burrus. Hughes, and PowerPlus® brands and Avicta Complete® 500 is standard on our Catalyst brands. This higher rate of Poncho or Cruiser insecticide within our corn seed treatment ensures that our customers have greater systemic protection against early season insects such as wireworm, black cutworm, grape colapsis.

The nematicides, VOTiVO and Avicta, protect our corn against an array of corn nematodes early in the season. Competitor seed treatments will vary in their specific and broad spectrum disease control. PowerShield on corn consists of Maxim® Quattro that has four fungicidal modes of actions providing systemic and contact

NOT all SEED TREATMENTS are the SAME, NOR are THEY EQUAL.

protection against early season fungal pathogens such as Pythium spp, Fusarium spp., Rhizoctonia spp., and many others.

All of our soybean brands — Hughes, PowerPlus®, and Hoblit — are available with PowerShield seed treatment that includes insecticide, multiple fungicides, and biologicals. We are proud to report that 92% of Burrus soybean seed is treated with PowerShield.

Gaucho® 600 was the insecticide included in our PowerShield in soybeans because it can provide greater early season protection of soybean aphids when compared to other insecticidal seed treatments while protecting against many other early season insects.

In 2016, the high rate (.15 mg/seed) ILeVO® seed treatment will be introduced as PS SDS seed treatment and will be optional on selected soybean varieties — Power Plus® 25A5™\*, 26Z6™\*, 30B5™\*, 36J3™\*, 39R5™\*, Hughes 285LL, Hoblit 384LL, and 405LL. ILeVO is a unique compound from Bayer Crop Science that brings both fungicidal and nematicidal activity within the seed zone and protects against Sudden Death Syndrome (SDS) disease symptoms above and below the soil.

PowerShield on our soybeans also consists of Evergol™ Energy providing multiple modes of action of systemic fungicides against early season disease pathogens such as pythium spp., Phytophthora spp., Fusarium spp., Rhizoctonia spp., and others. Unlike many of our competitors, our soybean PowerShield seed treatment also consists of Allegiance® that offers an even longer early season control of Phytophthora spp Burrus corn and soybeans treated with PowerShield qualify for 100% free replant. Be sure to qualify for the replant guarantee of free seed as well as free seed treatment if available and free tech feed of equal or less value if from the same technology family. The supply of seed is subject to availability at the time of replant need.





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