NeWold Times

a 3rd Millennium R&D Publication

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Inaugural Issue!

Welcome to the inaugural issue of NeWold Times. This is a publication by 3MG R&D with the purpose of sharing news, practical advances being made in genetics and addressing issues that are of interest to the industry at large. This is a forum where we can introduce new products and advances created by 3MG R&D. Why the name NeWold you ask? NeWold are the breeding techniques and methods utilized by the corn breeders at 3MG R&D that encompass the practices of Extreme Stress Breeding and traditional plant breeding methodologies. We use a combination of old world breeding concepts coupled with the new world genetic understanding to produce stronger inbreds and hybrids. We hope you find this publication both entertaining and informative. Thank you for reading NeWold Times!

3MG R&D – A Source for Genetics Since 2012

3MG R&D LLC has been a source of genetics to develop new products for our service customers since 2012. Our breeders have an eye for identifying the traits that distinguish tougher corn and have been using the NeWold breeding techniques to isolate and perpetuate these traits for future generations. The inbreds created using our NeWold breeding techniques have been used by various service customers to create new hybrids.

Only our service customers are eligible to utilize these genetics. This way we are able to maintain mutually beneficial business relationships while respecting the intellectual property of all parties involved.

We are continually working to create more inbreds to create more hybrids and identify more diverse genetics to make available to our customers. We test in distinct climates and latitudes to obtain a varied set of data that can then be interpreted and applied to our newest pedigrees. We are not resting on our laurels, but rather we seek to constantly improve and evolve as a company and as scientists. 3MG R&D, like Durayield, has the drive to survive.

If you are a current service customer or would like to become one and are interested in exploring the possibility of utilizing genetics from our company, please contact us today.

Bringing The Dream to Reality

by Ed Baumgartner

When you start a genetic development business, the first question asked is how do you think you can compete? An easy question that is very difficult to answer. It is a David vs. Goliath situation. Our answer is focus, passion, dedication, determination, endurance and enjoyment. Corn breeding has been my career and my hobby. I think that is where the dedication, passion and the enjoyment come in.

My wife, God bless her, has heard more talk about corn than anyone should ever have to hear that is not a certified corn kuku nut. Our children have been subjected to corn discussions since they were born. So much so, that two of them work willingly with us on this project. Our grandsons are now listening to me talk about corn when we visit them. They will learn how to pollinate corn as soon as their mother and father will allow me to teach them. They will be the 5th generation of my family in the corn business if they choose to be in it.

The Baumgartner Family: Hannah, Rebekah, Debbie, Ed & Raechel

We are focused on where we want to go. Back in 2005. we asked where is the largest need not being met in the corn development world. We determined that the non-GMO market was being overlooked and decided to focus our efforts in that direction. It is becoming evident today that the non-GMO market may even gain market share in the US. We also determined that the difficult production acres should be our target. We believed in 2005 and still believe today that the largest yield gains worldwide will be made in the tough or marginal production acres.

To endure the long development process, we are forced to be very creative in how to develop the products to handle the tough acres, the products we call Durayield™, and to do it on a limited budget. We look at this business as a long-term plan that will span generations if we approach it properly. We are dedicated to finding the genes that exist in corn to develop the products that will handle the difficult growing environments of today and the future. We are excited about meeting these challenges. We think that we can do it based on the progress we have made so far. I am continually amazed at how much punishment a corn plant can take. When we first started our Extreme Stress Breeding program, I thought I went too far. Debbie encouraged me to keep going. I am glad we did. I learned two important lessons from that day harvesting in the field. The first lesson is that Debbie was actually listening to me all of those years, and the work of those years was put to use that day as she told me why we should keep going with that program. The second lesson is that correct breeding methodologies can make corn even more resilient than I thought possible. This does not happen overnight, but it does happen over time with dedication, focus, determination, and passion while enjoying the ride.

Durayield

What is Durayield™?

Durayield™ is the new non-GMO corn seed developed by 3MG R&D. By utilizing Extreme Stress Breeding methods, 3MG developers are able to breed corn that can thrive in the toughest soil and growing conditions. Durayield™ has a variety of naturally selected traits, such as heat tolerance, cold tolerance, drought tolerance, insect tolerance and disease tolerance. Because we put our seed in the toughest environments, we are able to breed tougher corn. Once we find a promising pedigree, we test and test again under various conditions before we can call it Durayield™ . We currently have Durayield™ hybrids available for tropical and sub-tropical plantings, and hybrids will be available soon for the temperate zones.

Durayield™ is a…

- ☑ **Series of in-plant natural protection genes.**
- ☑ **Value-driven crop development and production program.**
- ☑ **Competitive corn technology platform.**
- ☑ **Sustainable product.**

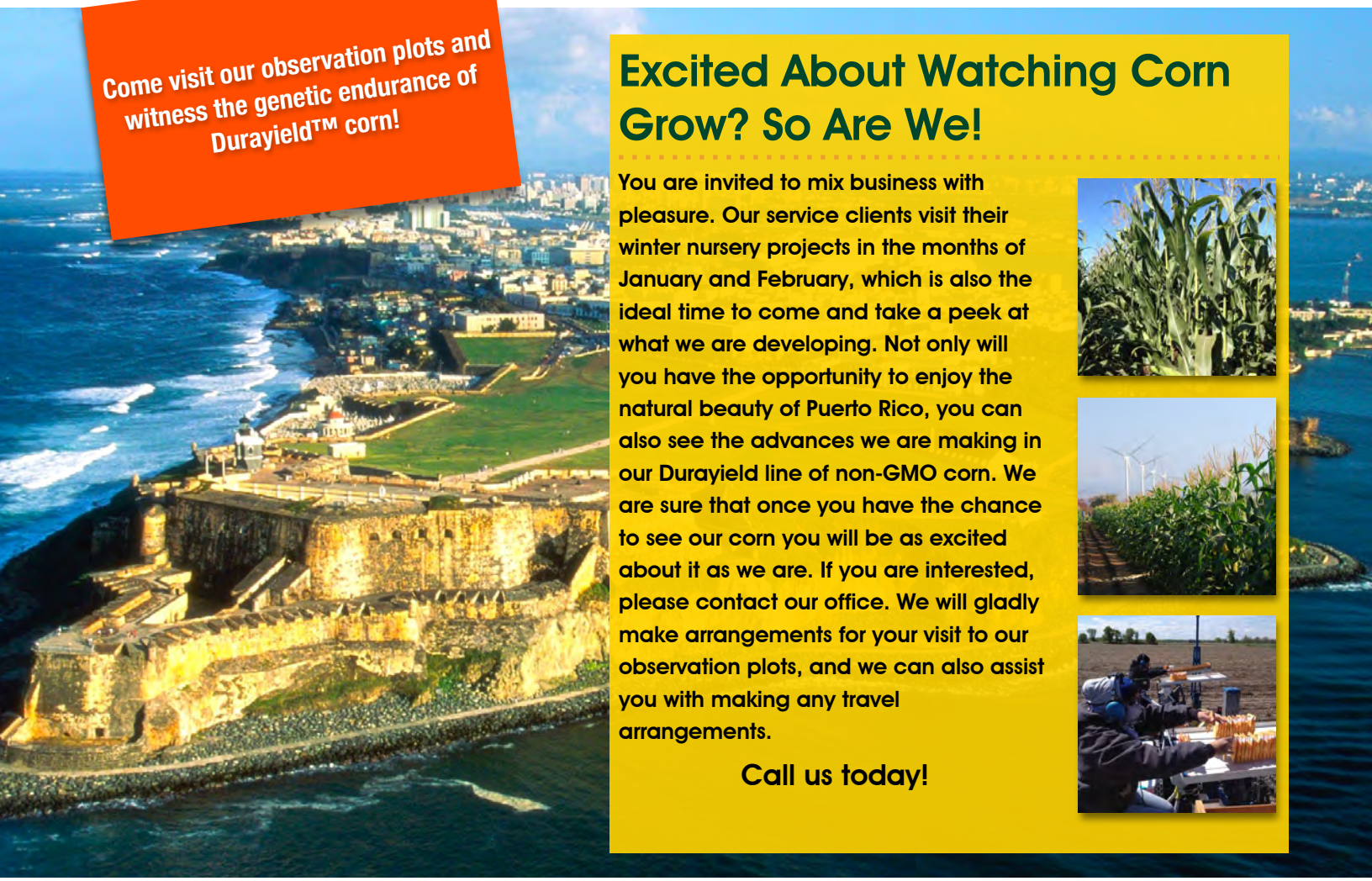
Durayield™ does

- ☑ **Support season-long pest management.**
- ☑ **Not fall under any market restrictions anywhere.**
- ☑ **Handle difficult growing conditions**
- ☑ **Provides value and quality.**

- ✦ High plant health
- ✦ Higher grain quality
- ✦ Leaf disease tolerance
- ✦ Resistant to most viruses
- ✦ Tolerance to bacterial diseases including Goss's Wilt
- ✦ Minimizes or eliminates fungicide applications
- ✦ Lengthens silage cutting window

- ✦ Fends off the toughest pests, such as corn borers, stalk borers, aphids, spider mites, root worm, beetles, corn ear worms, army worms, and western bean cutworm
- ✦ Non-toxic
- ✦ Multiple gene activity

- ✦ Tolerance to drought
- ✦ Tolerance to heat
- ✦ Tolerance to cold
- ✦ Tolerance to high pH
- ✦ More yield with fewer plants per acre
- ✦ Efficient use of valuable resources, such as water and fertilizer



Excited About Watching Corn Grow? So Are We!

You are invited to mix business with pleasure. Our service clients visit their winter nursery projects in the months of January and February, which is also the ideal time to come and take a peek at what we are developing. Not only will you have the opportunity to enjoy the natural beauty of Puerto Rico, you can also see the advances we are making in our Durayield line of non-GMO corn. We are sure that once you have the chance to see our corn you will be as excited about it as we are. If you are interested, please contact our office. We will gladly make arrangements for your visit to our observation plots, and we can also assist you with making any travel arrangements.

Call us today!

NeWold Times

R&D

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Founded in 2012, 3MG R&D has been involved in the creation of innovative products that we hope will be in the forefront of the seed market. Guided by our principle that we can develop food crops that combat environmental pressures naturally and economically, we continuously research new solutions using a mix of millennia-old breeding techniques with high-end modern genetic technologies.