

MULTI-HYBRID PLANTING

MAKING THE MOST OUT OF EVERY ACRE



AgriGold[®]

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ADVANTAGES OF **MULTI-HYBRID PLANTING**

Hybrid placement is critical

- All fields are not created equal
- All genetics are not created equal

Eliminates weak areas in a field

- A whole field average equates to a whole farm average
- Aids in pulling up the yield floor, and pushing up the yield ceiling

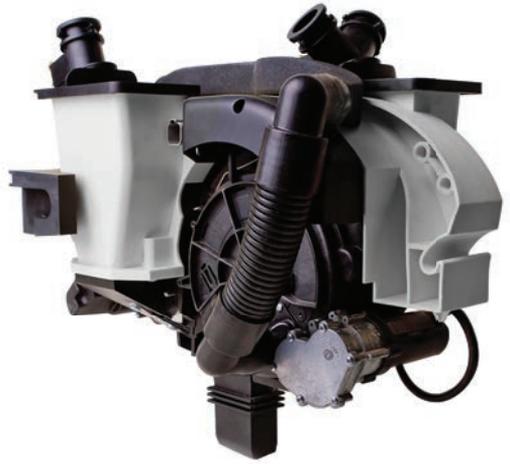


GET THE MOST OUT OF **MULTI-HYBRID PLANTING**

Incorporate a genetic research engine that can provide elite germplasm

Develop a portfolio with diverse genetics

Have the understanding and knowledge base to manage hybrids in multiple environments



We know multi-hybrid
planting and
**WE KNOW
CORN!**

WE KNOW GLOBAL RESEARCH

NATIONAL AND GLOBAL RESEARCH

INCLUDING RESEARCH IN:

Puerto Rico

Peru

Chile

Argentina



13 RESEARCH FACILITIES



● Breeding Stations ● Testing Station ● Double Haploid Station

AgReliant Genetics' research program is among the top five in North America because of our unique, aggressive approach to develop the best hybrids for our customers. Our access to research and breeding locations through KWS and Limagrain spans the globe and has helped us build one of the most competitive corn breeding programs in the industry. We are equipped with over 15 research stations globally and hundreds of test trials annually.

AgriGold's in-depth knowledge of advanced genetics is crucial to providing you with a deeper understanding of what you're planting in your field.



GREG HANSEN

I farm all different soil types, from the best in the county to some of the poorest. I know that having the right hybrid on every inch of my ground adds up to more bushels. The Multi-Hybrid planter from Precision Planting and hybrids from AgriGold provide me the capability to maximize all my acres.

WE KNOW RESEARCH

Genetic research and hybrid development is at the core of AgriGold's success. Utilizing unique genetics and global research and testing network, AgReliant Genetics corn breeders develop and pair our very best inbreds to handle nearly any condition you might face in your operation.

Since we develop the products, we know more about them. With every bag of AgriGold seed, you plant the knowledge and experience of a top corn research program working towards your success.

OFF-SEASON RESEARCH LOCATIONS



■ Argentina

- Research Seed Production
- Hybrid Pilot Production

■ Puerto Rico

- 4 Generations/Year
- Transgenic Trait Conversion

□ Chile

- Doubled Haploid Nursery
- Research Seed Production

Placement is critical. Efficient placement of hybrids within the same field allows for whole farm yield increases. This begins by pulling up the yield floor and continuing to push up the yield ceiling.

At AgriGold, we believe that by utilizing the knowledge of our Field GX families, growers can maximize their yields by increasing their genetic diversity, which allows for less risk per field. Work with your AgriGold representative to select two key hybrids that will work best with your fields, your soils and your management practices.

WE KNOW GENETIC DIVERSITY

FIELD GX



When choosing similar genetics for a multi-hybrid planter you may not see the full yield potential of the technology. That is why AgriGold uses Field GX. Field GX™ is all about AgriGold's unique Geneti"X". Field GX™ is the system that categorizes our genetic families. No matter the environment or practices used, you can choose AgriGold for all of your genetic needs. Field GX™ combines world-class genetics and your field. AgriGold classifies every one of its hybrids into genetic families based on its genetic background and agronomic characteristics. Knowing a hybrid's genetic family helps simplify management, reduce risk and maximize results in your field.



With Field GX, you can confidently select the hybrids that work best for your field's specific challenges. Multi-hybrid planting is the future and no one does it better than AgriGold. We know genetics. That's why we know corn and multi-hybrid planting.

FIELD GX REFERENCE CHART

| | EMERGENCE & VIGOR | PLANT HEALTH | NITROGEN APPLICATION | YIELD CAPABILITIES | STALK & ROOTS | KERNEL TYPE | TEST WEIGHT | EAR TYPE | |
|----------|-------------------|--------------|----------------------|--------------------|---------------|-------------|-------------|-----------------|----------|
| A | 1 | 4 | EARLY | 3 | 3 | NARROW | 3 | FLEX | A |
| B | 3 | 3 | FLEX | 4 | 3 | BROAD | 1 | FLEX | B |
| F | 3 | 2 | FLEX | 4 | 2 | MEDIUM | 4 | SEMI FLEX | F |
| G | 3 | 4 | LATE | 2 | 2 | MEDIUM | 4 | FLEX | G |
| H | 2 | 3 | LATE | 4 | 3 | MEDIUM | 3 | FIXED SEMI FLEX | H |

1=AVERAGE 2=ABOVE AVERAGE 3=STRONG 4=EXCELLENT



Multi-hybrid planting paired with AgriGold's advanced Field GX lineup allows you to take advantage of all the variables in your fields to achieve higher, more consistent yields.

FIELD
GXA

Excellent plant health
Prefers early applications of nitrogen
Has high requirements for potassium
Handles well or poorly drained soils
Best in a cooler year

FIELD
GXB

Strong emergence & vigor
Prefers split applications of nitrogen
Extremely high-yielding capabilities in well-drained soils
Strong plant health & average late-season stalk strength
Flexible ear types

FIELD
GXF

Prefers split applications of nitrogen
Excellent test weight & grain quality
Adapts to wide range of soil types
Generally fixed to semiflexible ear types
Higher populations required for maximum yields



MATT
MCLAUGHLIN

With the extreme variability of the soils in our area it is important to take advantage of multi-hybrid planting technology. Pairing this technology with AgriGold's diverse hybrid line-up, is the next step to maximizing our yield and profit.

WE KNOW GENETIC DIVERSITY

FIELD
GXG

Responds to late applications of nitrogen
Excellent plant health & drought tolerance
Excellent test weight & grain quality
Flexible ear types
Does not respond to wet feet

FIELD
GXH

Top-end yield consistency
Performs well at high plant populations
Handles multiple soil types
Very good grain quality & test weight
Excellent southern movement

GENETIC DIVERSITY MINIMIZES RISK

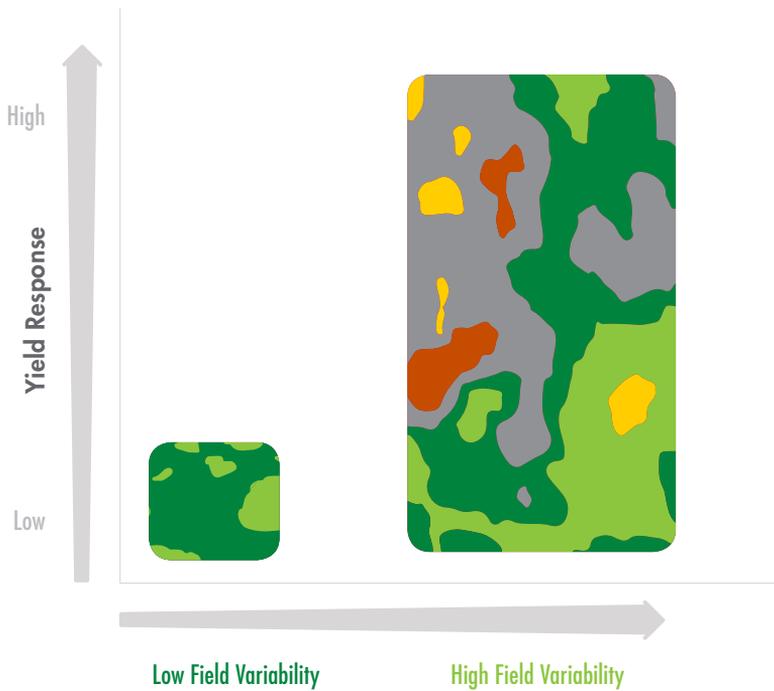
| Rank | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------|-----------------------|--------------------------|----------------------|------------|------------|
| 1 | GX B | GX G | GX F | GX F | GX F |
| 2 | GX F | GX F | GX A | GX B | GX H |
| 3 | GX A | GX B | GX B | GX G | GX B |
| 4 | GX G | GX A | GX G | GX A | GX G |
| 5 | | | | | GX A |
| National Yield (bpa) | 147.2 | 123.4 | 158.8 | 171.0 | 168.4 |
| Growing Environment | Hot & Normal Rainfall | Very Hot & Extremely Dry | Cool & Extremely Wet | Cool & Wet | Cool & Wet |
| Grain Fill Period | Medium | Short | Long | Long | long |

WHAT WILL **NEXT YEAR** BRING?

WE KNOW FIELD VARIABILITY

At AgriGold we have found yield response depends on the variability of a field. A field with high variability could include multiple soil types, various elevation changes, several drainage patterns and/or numerous differences in topography. A field with low variability could include 1-2 soil types, with similar drainage, elevation and topography.

Below we have included a chart to depict how yield response increases when field variability increases.



BRANDON KING

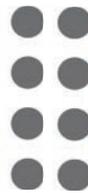
By utilizing multi-hybrid planting technology I can put the right hybrid, at the right population, on the right acre. I believe that can make a huge influence on taking our farm to the next level.

WE KNOW LOCAL RESEARCH

Understanding and applying the results of our genetic research ensures that with AgriGold you are maximizing Multi-Hybrid planting technology.

Enhanced Density Trials

AgReliant's Enhanced Density Trials (EDT) shows us how products planted at different populations react within similar soil types.



VARIABLE POPULATION

SIMILAR SOIL

Genetics by Environment

This study is used to provide insight into how our hybrids react to different environments all across the Midwest. This helps us provide enhanced hybrid recommendations.

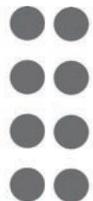
Advantage Acre Trials

AgReliant's Advantage Acre Trials (AAT) demonstrate how products planted in similar populations react to different soil types.



VARIABLE SOIL

SIMILAR POPULATION



Innovator Trials

These on-farm grower trials utilize the knowledge gained from previous trials to validate the planting recommendations ensuring maximum yields for your operation.

TO LEARN MORE ABOUT OUR RESEARCH, VISIT
agrigold.com or advantageacre.com.

WE KNOW YIELD RESPONSE

The Multi-Hybrid planting project has been a group effort. AgriGold partnered with Kinze® in 2014 and with Precision Planting® in 2015. We will continue to work along side industry partners with the leading technology as we continue our research.

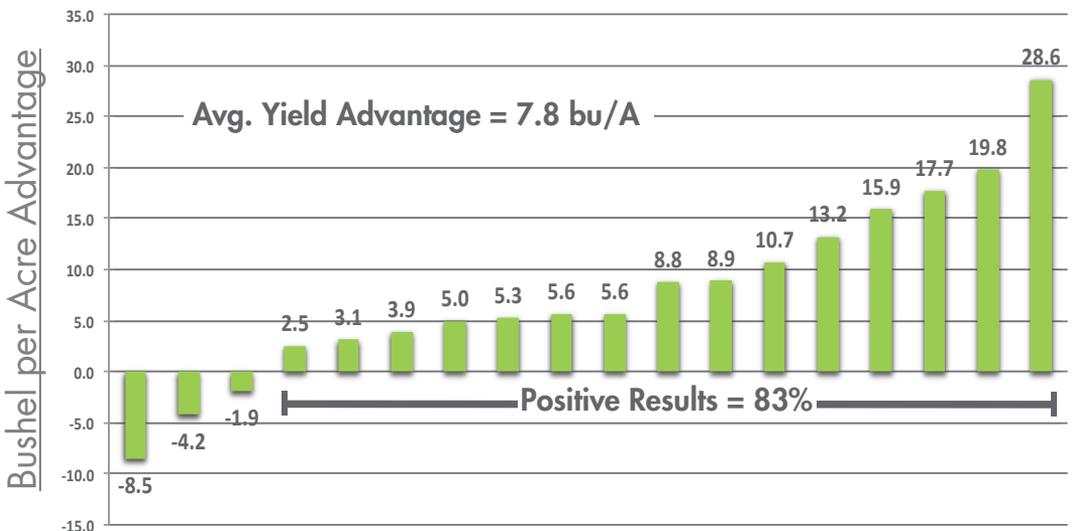
2014 RESULTS

In 2014, we recorded a 6 bu/ac yield advantage when comparing a multi-hybrid planting to single hybrid planting.

2015 RESULTS

Our 2015 yield results were positive 83% of the time. Utilizing AgriGold's Field GX system and planting with a multi-hybrid planter we saw an average yield advantage of 7.8 bu/acre.

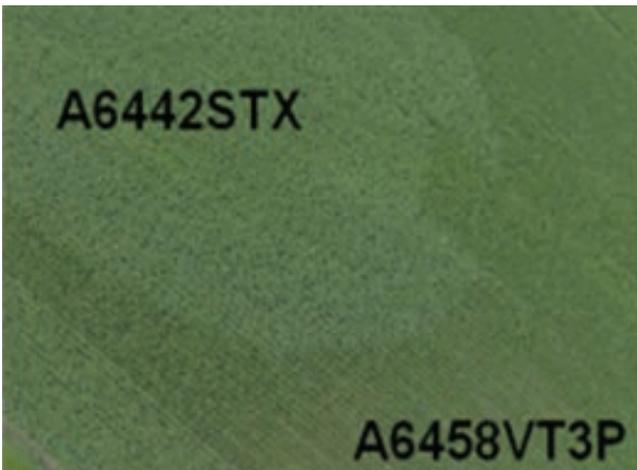
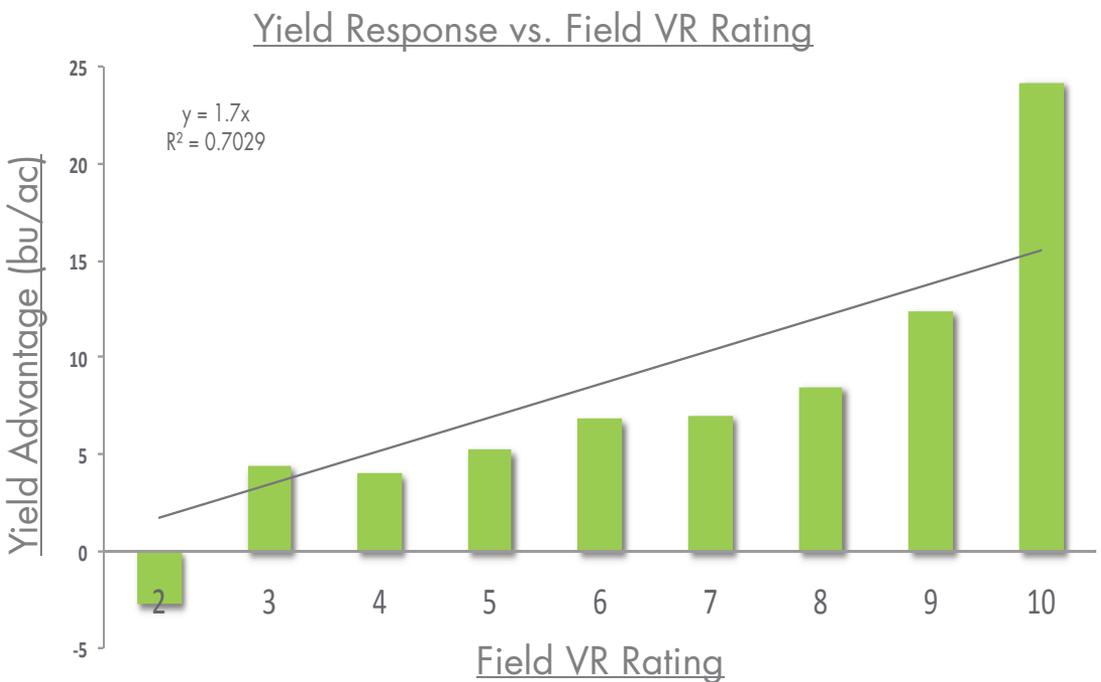
AgriGold Multi-Hybrid vs. Single Hybrid



WE KNOW YIELD RESPONSE

Furthermore, in 2015, we found that on average there is nearly a 2 bu/ac average increase for each integer increase in field variability.

Below we have provided a chart to show the correlation between yield response and field variability based on 2015 growing conditions.



The photo to the left represents one of our fields in 2014. This is a great representation of how hybrids grow and develop.

WE KNOW **TECHNOLOGY**



HAVE THE ADVANTAGE IN **YOUR FIELD**

The Advantage Acre platform brings together three fundamental components of farming today: seed, soil and weather. We combined our knowledge of our genetics, the comprehensive understanding of soil and Weathertrends360's advanced forecasting to assign a productivity index to each unique environment. With this enhanced, dynamic knowledge, our recommendations may change from year to year.

Next year, you could plant the same hybrid in the same field and get a completely different seeding recommendation. Advantage Acre's recommendations put our hybrids in the precise location in your field that will maximize yield potential. With the challenges you face day-to-day, let us help give you an advantage in your field.

THE RIGHT PLAN **FOR YOUR OPERATION**

Advantage Acre offers the latest in accurate long-term weather forecasting and advanced functional soil mapping. Now, you can have the tools to gain unprecedented insight into your field's characteristics and the factors that affect those characteristics.

GET STARTED
TODAY



MULTI-HYBRID PLANTING **WITH ADVANTAGE ACRE**

It's as easy as 1, 2, 3!

1. Visit advantageacre.com and create a PLUS account
2. Start by mapping your fields by using common land units, uploading existing files, or drawing boundaries.
3. Utilize the seed planning tool with your sales representative to visualize seed placement by selecting two hybrids then select Multi-Hybrid planting VR.



**BE PREPARED
RAIN OR SHINE**

WEATHER



**BUILD A STRONG
FOUNDATION**

SOIL



**PLANT THE SEED
FOR SUCCESS**

SEED

WE KNOW

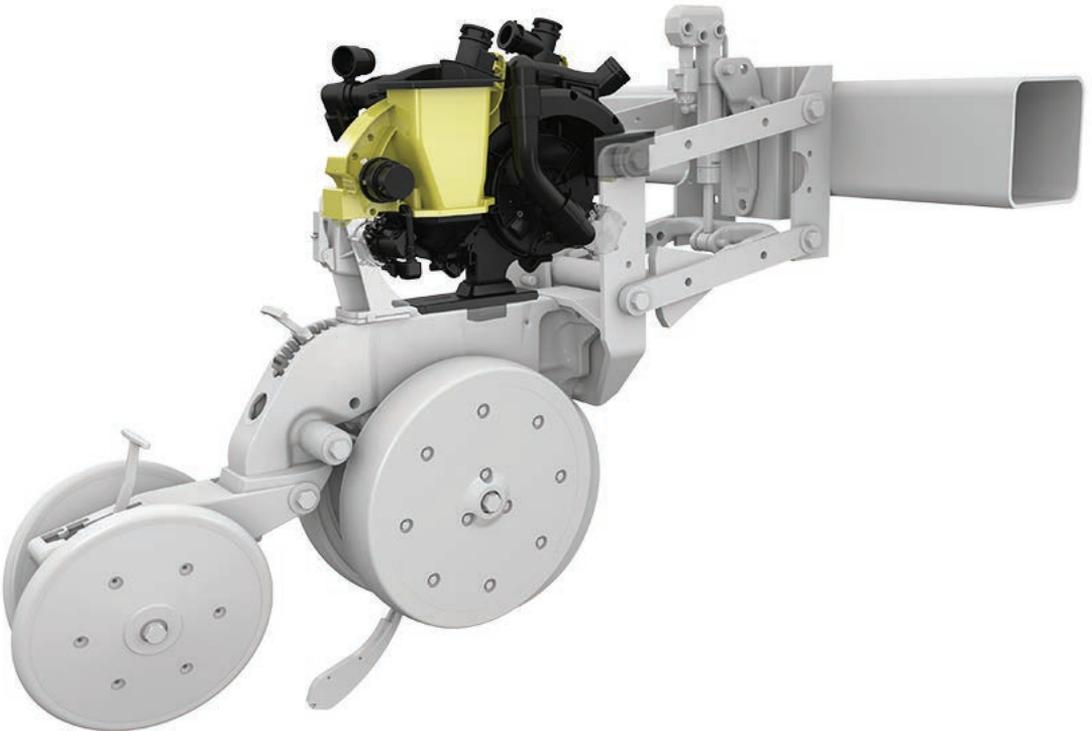
PRECISION AGRICULTURE

No more missed yield potential.

MULTI-HYBRID PLANTING IS HERE

You aim to maximize yield by planting the hybrid that will do the best, on average, across the whole field. But yield environments often change in the same field, calling for different hybrids in different areas. You've had to make compromises, but not anymore.

With the radically new vSet Select, there are no compromises. You can plant two hybrids in the same row, switching back and forth as environments change, to plant the hybrid that will produce the most in each environment that maximizes yield.



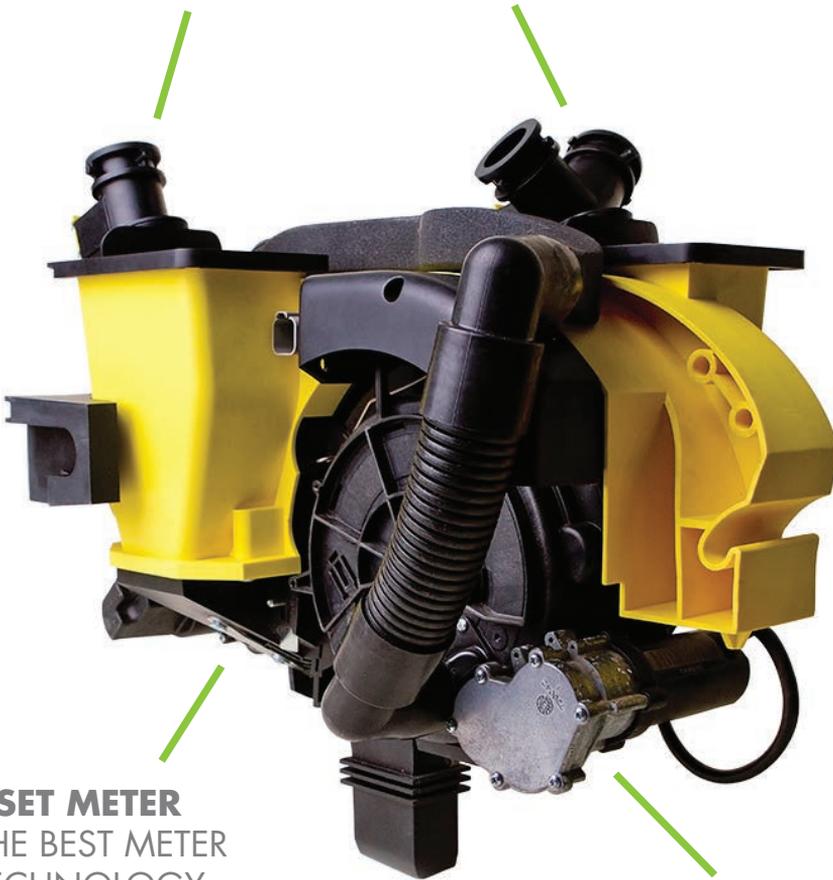
At AgriGold, our goal is to maximize whole farm yields, we want to simplify and influence crop development. We are focused on genetics and using new technologies to make it all work.



IMPRESSIVE RESULTS

The right seed in the right place. Each part of your field, even those with limitations, are planted to its potential. A dense stand and high-yield result across varied conditions.

STANDARD SEED SUPPLY COMPATIBLE
USES STANDARD BULK SEED TANKS



VSET METER
THE BEST METER
TECHNOLOGY

VDRIVE ACCURACY
ROW-BY-ROW CONTROL
INSTANT HYBRID SWITCH

INTEGRATED DUAL METER DESIGN
SEED RELEASES CONSISTENTLY DOWN A
COMMON TUBE – UNIFORM SPACING EVERY TIME

NOTES



A series of horizontal lines for writing notes, consisting of 25 evenly spaced lines extending across the width of the page.



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