

FIELD GX MEETS FIELD VARIABILITY

Multi-hybrid planting is the next revolution when it comes to increasing whole-farm yields. AgriGold believes that Field Variability and Field GX are two key factors that must be considered when thinking about multi-hybrid planting.

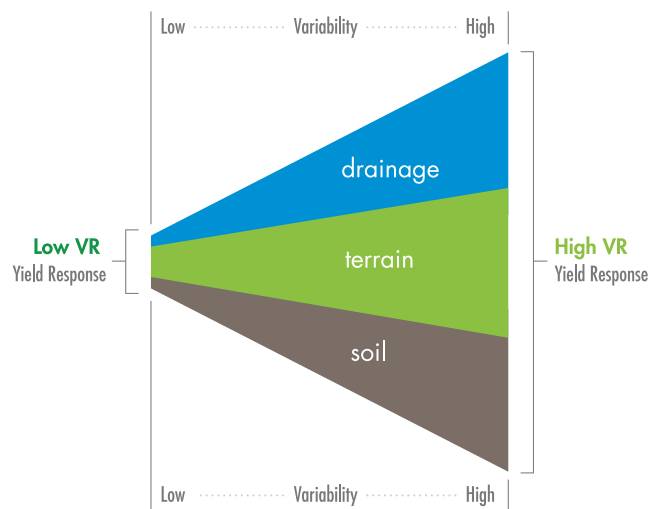
Understanding Field Variability can help our customers evaluate their fields and better anticipate the results of applying precision farming techniques like multi-hybrid planting. The level of Field Variability identified could then determine the yield response for every field. The Field Variability in some locations may be low and some may be extremely high. With this in mind, the benefits and yield responses of a multi-hybrid planting system could have a dramatic range depending on weather conditions and farming practices in a given year.

MULTI-HYBRID RESPONSE TO FIELD VARIABILITY IMPACTS YIELD RESPONSE

Utilizing tools like Advantage Acre®, growers can evaluate a field's variability and make better management decisions.

Fields with **low variability** could have very little difference in terrain, have one or two soil types with similar characteristics, and have the same or similar drainage capabilities.

Fields with **high variability** could have slight-to-large difference in terrain, have multiple soil types with totally different characteristics, and have multiple drainage patterns throughout the field.



FIELD GX

Remember, Field GX is all about the genetics. Some genetics maximize their yield potential in well-drained soils under given management practices and other genetics can maximize their potential in poorly drained environments with another set of management practices. That is why AgriGold developed Field GX.

Field GX is a genetic system that distinguishes between the different types of AgriGold germplasm. This unique genetic diversity offers growers more choices, reduced risk and is a distinct advantage with AgriGold. The FIELD GX system offers multiple genetic backgrounds that are characterized in families. Currently, we utilize 5 key genetic backgrounds in the portfolio: GXA, GXB, GXF, GXG and GXH.





MULTI-HYBRID PLANTING SUCCESS

Utilizing AgriGold's unique Field GX and superior knowledge of genetics allows for maximum results of practices like multi-hybrid planting. AgriGold finished up its third year of testing with multi-hybrid planting technology. The goal of the project is to match management zones within each field with the right Field GX hybrid and maximize yield results.

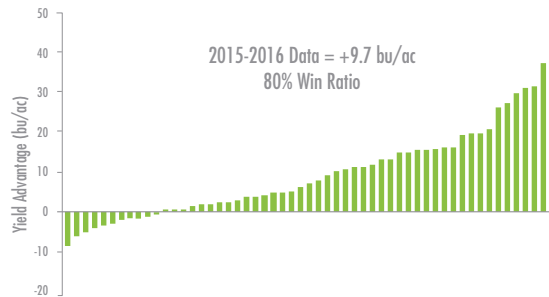
2014 MULTI-HYBRID RESULTS

Yield increases ranged from 0-12 bu per acre in comparison to the test strips. After evaluations, yield gains were very dependent on the field variability and the mitigation of limiting factors. Fields that have high field variability responded much greater than fields with lower variability.

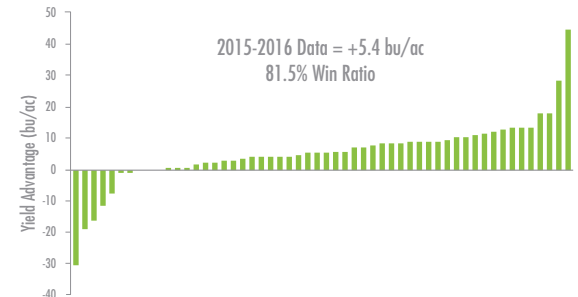
2015-16 MULTI-HYBRID RESULTS

In 2015-16 we saw similar results of nearly 2 bu per acre increase for each integer increase in Field Variability. Two year data allowed us to go another level and breakout defensive hybrids in low productive soils (LP) vs offensive hybrids in high productive soils (HP). Defensive hybrids placed in lower productive soils showed a **9.7 bu advantage** winning 80% of the time over offensive hybrids in lower productive zones. However, offensive hybrids showed a **5.4 bu advantage** winning **81.5%** of the time in higher productive zones in comparison to defensive hybrids in higher productive zones. Overall, 2015-16 data highlights a **7.55 bu yield advantage** by properly placing hybrids in a field by use of multi hybrid planting.

DEFENSIVE HYBRID ADVANTAGE IN LP SOILS



OFFENSIVE HYBRID ADVANTAGE IN HP SOILS



HOW DO GROWERS GET SET UP WITH MULTI-HYBRID PLANTING?

- 1 **USE DIVERSIFIED AGRIGOLD GENETIC FAMILIES**
contact your local AgriGold Corn Specialist to learn about Field GX or reference pages 4-5 of this guide
- 2 **PURCHASE THE PLANTING EQUIPMENT**
contact Precision Planting® to learn about vSet® Select adaptation on your current planter
- 3 **USE ADVANTAGE ACRE OR PRECISION AG PLATFORM OF YOUR CHOICE**

before choosing, ask if it's capable of the following:

- is it capable of writing a dual-hybrid script?
- can it analyze multiple years of yield and soil test data?



AgriGold is proud to offer Advantage Acre® as a digital technology tool for variable rate and multi-hybrid recommendations.

FOR MORE INFORMATION

Go to agrigold.com/Agronomy/Agronomy-Research/FieldVariability to learn more and to see updates, videos and more throughout the year.