

# PUT YOUR DATA TO WORK

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## Advanced Yield Systems

When it comes to decisions about your operation, quality data is everything. That is exactly what you get with our complete precision ag program, Advanced Yield Systems (AYS). This turn-key program provides critical information about your operation, along with site specific solutions to improve productivity and efficiency.

AYS puts your data to work by helping manage inputs for maximum yield, production efficiency and return on investment. Once your fields are grid soil sampled and you have yield mapping capabilities, a commitment of 500 acres or 100% of your acres, whichever is less, is all you need to start enrollment. Here is a portion of what you can do with AYS:

- ✔ Calculate ROI for inputs such as herbicides, fungicides and insecticides
- ✔ Assess hybrid and variety performance by soil type
- ✔ Compare yield versus population rate, planting date, depth and row width
- ✔ Field, grower and group level data analysis
- ✔ Confirm optimal planting speed and tillage practices
- ✔ Maximize nitrogen ROI through variable rate application
- ✔ Benchmark your operation against others in the data pool

### You're In Control

AYS will manage and store all data on your behalf, but you retain ownership and total control. When it comes to sharing your data, the choice is up to you.

Through our data sharing agreement, you can also choose to share data anonymously with hundreds of other regional AYS growers to benchmark performance and view trends from a higher level. This data pool gives you the ability to compare your operation to your peers' through direct and anonymous field data analysis.

## Field Top Ten

AYS digs deep into your field data to find yield limiting factors. Field Top Ten Reports allows you to see agronomic trends that can be hidden when looking at printed maps. The top factors that correlate to Crop Yield are displayed in one table - allowing you to "go to school" on what influenced yield in each field quickly and efficiently. Here is an example of the type of information that can be shown on a Field Top Ten Report:

- + Correlation to Dry Yield
- + Yield by Soil Type
- + Yield by Hybrid - Primary Soil Test Attributes
- + Primary Soil Test Attributes by Yield Range
- + Secondary Soil Test Attributes by Yield Range
- + Management Factors by Yield Range
- + Applied Nutrients/Acre by Yield Range

## Grid Soil Sampling

Grid Soil Sampling is the starting line. Crops don't grow without the right nutrients, but how do you know where your return on investment is highest? Many growers are maintaining their nutrient levels; others are even mining those nutrients from parts of their fields due to flat rate spreading. Increasing yields start when you know how much variability is in your fields. Understanding your soil conditions by grid soil sampling is the first step.

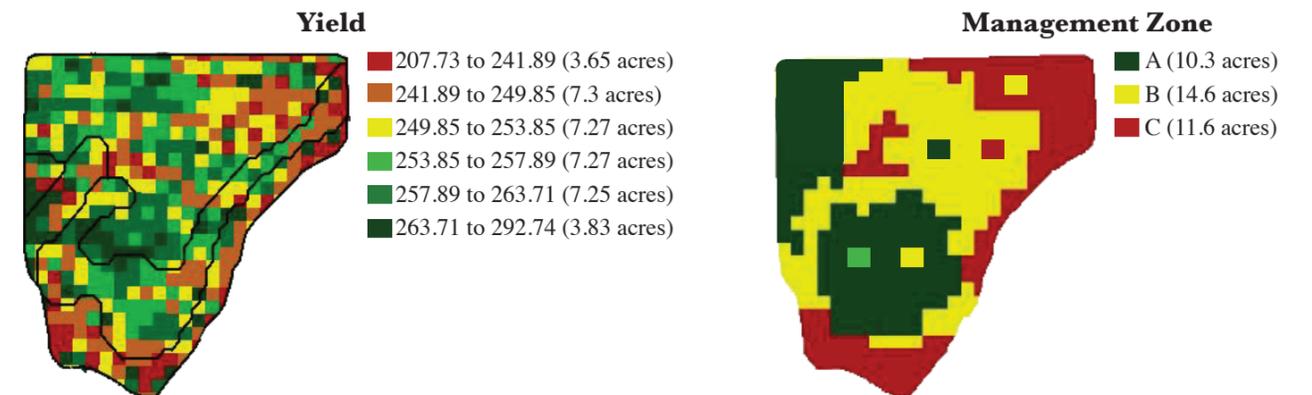
## Management Zones

Yield potential across and within fields is not uniform. To better understand that diversity, we use letter codes as a way to identify the highest performing areas from the lowest. By utilizing your historical yield and soil samples, AYS will build these ABC management zones within your field. Understanding what happens within these zones directly leads to variable rate planting, fertilizer and nutrient recommendations for managing inputs within each field.

**A Zones** represent the highest performing area of the field. Year in and year out, these areas deliver the highest yields, so having aggressive management practices implemented on them is critical. It makes sense to push A Zones, more plants per acre and more nutrients.

**B Zones** are the current field average areas. When it comes to yields, they are not the best, but they provide consistent production every year. Average management practices work well here.

**C Zones** are usually lower yielding areas of the field. Sometimes, this is due to lighter, drought-prone soils, or it is due to soils that have drainage issues. To see more return on your investment, conservative management practices make the most sense.



## Learning Blocks™

To lower the risk of experimental trials, Learning Blocks™ allow you to put one to three acre test trials within management zones. Learning Blocks™ let you experiment with real-world agronomic situations, such as new plant populations with appropriate fertilizer and other inputs in your own field, not a research farm hundreds of miles away.

Using a smartphone, tablet, or handheld GPS, you can witness results all throughout the growing season by ground-truthing the prescription to make sure it was applied correctly. Then, after harvest, together we can comb through your field's data to see exactly how each Learning Block™ performed relative to the management zone. With this information, you have the knowledge necessary to further refine the prescriptions in your fields with confidence.

## Variable Rate Planting

At AYS, we go beyond selling seed. We place the seed in the fields and conditions where it will thrive. From soil types, to organic matter, to yield history, we analyze it all to create sound site-specific variable rate population recommendations that are as unique as each of your acres. Every field has different correlations to population changes - one field may have the same soil type as another, but with different fertilizer practices and crop rotation, it may react differently. To ensure we developed the best recommendation for each acre, we check our work by utilizing Learning Blocks™ in each population zone with high and low checks so we can adjust each prescription to maximize its return.

