

# Accelerated Yield Technology (AYT™) System Helping Boost Yield Potential Of Pioneer® Brand Y Series Soybeans

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**P**ioneer researchers have developed an exciting system called Accelerated Yield Technology (AYT™) to further enhance the performance potential of new Pioneer® brand Y Series soybeans.

The AYT system is helping Pioneer research double the rate of genetic yield gain of its elite new varieties compared to varieties developed without these innovative molecular breeding technologies.

## **A matrix of breeding technologies**

The AYT system is a key part of a comprehensive plan to accelerate yield gain and broaden resistance to key diseases and insects by novel trait integration through our proprietary matrix of gene mapping, molecular breeding technologies and field testing protocols.

Pioneer has led the way in developing proprietary marker-assisted selection processes, most notably to protect soybean yield from harmful pests such as soybean cyst nematode, Phytophthora root rot, brown stem rot, sudden death syndrome and frogeye leaf spot.

So, instead of employing molecular breeding technologies to only protect yield, AYT marker

technologies are now being used to boost the genetic yield potential of Y Series varieties as well.

## **Using markers to select for yield**

The AYT process starts with Pioneer researchers mining and analyzing their vast germplasm database to identify native genes associated with high yields.

Using molecular markers and patented molecular breeding techniques, plant scientists are able to track and select native genes associated with increased yields ... and stack these genes in elite Pioneer varietal lines.

These breakthroughs, using non-transgenic biotechnologies, allow Pioneer researchers to quickly and efficiently "design" varieties carrying these yield-enhancing genes.

## **Pioneer Y Series varieties**

More than 30 Pioneer Y Series soybean varieties are available for 2009 planting. See your local Pioneer sales professional or authorized Pioneer retailer for information on the best variety for your operation.

Pioneer is excited about the helping you make the most from your soybean acres. For information on the latest soybean innovations, visit us at [www.pioneer.com/soybeans](http://www.pioneer.com/soybeans). Δ