

Marker-Assisted Selection



Description:

Marker-assisted selection is the use of genetic markers to identify the presence of a specific gene or combination of genes that carry a desirable trait such as insect or disease resistance.

By using this technology, Pioneer Hi-Bred International, Inc., is able to more efficiently identify and develop traits that bring farmers the greatest value.



Benefits:

Farmers have access to crop hybrids and varieties that deliver both the best performance and the greatest profit potential.

Market Value:

Using marker-assisted selection, Pioneer is able to speed up product development timeline, bringing our customers better products, faster. Our soybean varieties developed using marker-assisted selection have provided Pioneer with the biggest yield advantage across our product line in company history. Pioneer is also actively identifying and utilizing genetic markers in corn to enhance yield and key agronomic traits such as disease resistance and standability.

Technology Utilization:

Pioneer has been using its proprietary, marker-assisted selection technology for more than 10 years.

In addition to finding solutions for specific agronomic challenges in a variety of crops, including corn and soybeans, we have dramatically expanded overall capacity of our patented marker-assisted selection process by combining automation, computer robotics and extensive information management systems with the biotechnology.



Corn

Soybeans

Wheat

Sunflower

Canola