



Monsanto Data Center Ribbon Cutting Fast Facts

DATA CENTER

FAST FACTS:

- Construction on the center began February 20, 2006.
- The data center is a \$21 million, 40,000 square feet facility.
- Roughly 900 servers will be housed in the data center.
- Only 6-7 people will work in the data center at any given time.
- The data center stores more than 1.1 petabytes of data. A petabyte is 1000 trillion bytes.
- The building is capable of withstanding a tornado producing up to 200 mile-per-hour winds and an earthquake measuring up to 5.0 on the Richter scale.
- The outside glass meets Miami Dade County Glass & Frame requirements: F3 Tornado, 200 mph wind and rain resistant, and 90 mph object impact load rating.
- Monsanto anticipates receiving Leadership in Energy Efficient Design (LEED) certification for the building in spring of 2008.
- This will be the first LEED registered Data Center in the state, the third LEED certified Data Center in the country, and the second LEED certified building on Monsanto's campus (the Nidus Center is also LEED certified.)

MOLECULAR BREEDING AND IT

FAST FACTS

- The computer is becoming as important to farming as the tractor and the combine.
- Using molecular breeding coupled with several other breeding technologies, we can increase the probability of finding the best germplasm from one in a trillion to one in five.
- We rely on global IT databases and computer systems to understand our germplasm and gain insights into product performance.
- To understand our germplasm, we generate a molecular fingerprint and analyze those fingerprints for improved product potential.
- A single fingerprint may be comprised of 1,000's of data points and we generate 10's of millions of data points per year.
- Breeders every fall use significant computing power to analyze, summarize and make selection decisions on hundreds of thousands of new variety or hybrid candidates using millions of pieces of field and molecular fingerprint information.