The Acre Study: Here’s how much more we could get from one acre of corn

Imagine you take one acre of corn, and see how you can increase productivity. New report from Novozymes measures how much more value can be generated using biosolutions in ethanol, crop and poultry production. The results? More feed, food and energy, less CO₂ emissions.

One acre corn field

- **JumpStart**® Phosphorus more available to plants

- **Corn**
  - Poultry production (900 Chickens)
  - 3 bushels additional corn

- **Corn stover**
  - Production of starch-based ethanol (from additional corn)
  - Production of cellulosic ethanol

- **Novozymes**
  - Avantec® Amp
  - Spirizyme® Achieve
  - Cellic®
  - Ronozyme® HfPhos
  - Ronozyme® HiStarch

- **Biodiesel production**
- **Novozymes Eversa®**

- **13 US gallons** biodiesel
- **12 pounds** pure phosphorus saved, reduced feed costs
- **3 US gallons** starch-based ethanol*
- **32 pounds** more protein-rich animal feed**
- **100 US gallons** cellulosic ethanol
- **230 kWh** electricity

Avoid 1.1 metric tons of CO₂e emissions

*The three extra gallons of ethanol come from the additional corn obtained with JumpStart® after subtracting the additional corn used in the poultry production caused by the Ronozyme® HiStarch application. **The 32 pounds of protein-rich animal feed includes distillers grains with solubles (DGS) and soybean meal (SBM) saved in poultry production through use of Ronozyme® HiStarch.

Rethink Tomorrow
We can’t make more land, so let’s make more from what we’ve got.