

Don't Turn Your Back On Biotech

NORCROSS, Ga. — It's hard to believe how fast our world is changing. Technological innovations are everywhere — computers, cell phones, digital this and digital that. And now we are hearing more and more about biotechnology.

Agriculture has already

embraced biotechnology. In just a few years, large acreages of bioengineered crops have been planted in the U.S., Canada, and other countries. Herbicide resistant and/or insect protected corn, soybeans, canola, cotton, and potatoes comprise most of the acreage presently being planted. This is a good deal

for farmers because their crops are protected without the use of pesticides — at least for certain pests. So they can save both time and money.

Advances in biotechnology can also lead to more efficient fertilizer use. Crops not suffering from disease or insect damage are more responsive to applied nutrients. Such responses lead to greater nutrient utilization, higher yield, and lower unit cost of production.

Biotechnology benefits more than just the farmer. We, the consumer, benefit in several ways. Pesticide residues on food are reduced or eliminated altogether, as are concerns over pesticides entering surface and ground water supplies. Better utilized fertilizer materials also translates into less opportunity for leaching of these essential inputs into water supplies. Such efficiencies will also help keep our food prices among the lowest of any country in the world.

The potential benefits of biotechnology are enormous. We haven't even begun to



scratch the surface. For example, yield potential may be substantially increased with new bioengineered crops. This is certainly important for a world population that recently passed six billion and is expected to reach eight billion within 50 years. Perhaps crops will be developed that are adapted to saline soil, shorter growing seasons, or high elevations — areas that are relatively unproductive today — or they may be developed with larger root systems capable of extracting water more efficiently and from greater soil depths, making them suitable for arid regions where irrigation water is limited or very expensive.

An important consideration, perhaps the most important to the general public, is food quality. Potential benefits to consumers seem virtually unlimited. Biotechnology provides the opportunity to develop crops that have very specific quality components. Bioengineered rice, for example, has already been produced that contains a high

concentration of beta carotene. Beta carotene is converted into vitamin A in the body, and it is estimated that more than 120 million children worldwide are deficient in vitamin A. Widespread distribution of this rice could prevent one to two million deaths each year.

Foods such as the rice just discussed, containing ingredients that enhance health and fitness, are called "functional foods." The active ingredients are nutraceuticals. There are dozens of nutraceuticals known to reduce such illnesses as cancer, diabetes, hypertension, and heart disease. Biotechnology offers the opportunity to fortify our diets in these beneficial ingredients.

So don't turn your back on biotechnology. We need it to produce an abundant quantity of healthy food for today and tomorrow.

For more information, contact Dr. Albert E. Ludwick, Western Director, PPI, P.O. Box 970, Bodega Bay, CA 94923, (707) 875-2163, e-mail: aludwick@ppi-far.org.

State, National Corn Forecasts Indicate High Yields

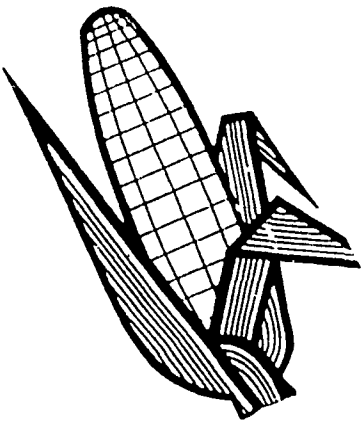
HARRISBURG (Dauphin Co.) — According to the Keystone Ag Digest published by the Pennsylvania Agriculture Statistics Service, based on Aug. 1 forecasts for yield and production, the Keystone state's farmers expect to produce more corn for grain, oats, barley, wheat, soybeans, alfalfa hay, other hay, southern Maryland-type tobacco, and pears. Production is expected to decrease for Pennsylvania seed-leaf tobacco, peaches, apples, and

grapes.

Corn acreage for harvest, at 1.05 million bushels, is 19 percent more than last year. The Aug. 1 corn yield forecast of 127 bushels per acre is 57 bushels more than last year's yield. The corn production forecast of 133.4 million bushels is 117 percent more than last year.

For the U.S., corn production is forecast at 10.4 billion bushels, up 10 percent from last year and up 6 percent from 1998.

Based on Aug. 1 conditions, yields are expected to average 141.9 bushels per acre, up 8.1 bushels from last year. If realized, this would be the largest production and the highest yield on record since 1866, when corn estimates began. Grain harvested is estimated at 73.1 million acres, down 29,000 acres from June, but up 4 percent from 1999.



PULLS ITS OWN WEIGHT. WHAT MORE COULD YOU ASK FOR IN A FARMHAND?

Buy a new Arctic Cat® ATV and get a Camo Pack or Warn® Winch Kit for just \$69, or a 2-year extended service contract, or financing as low as 9.95%*

There's no better time to buy your new Arctic Cat ATV than right now. Not only do you get features like industry-leading rack capacity, suspension travel, and torque. You can also choose from four unbelievable deals. Just more proof that when **ARCTIC CAT** you get an Arctic Cat you get More To Go On.™ **MORE TO GO ON.™**

M & S SALES & SERVICE, INC.

3385 DIVISION HIGHWAY NEW HOLLAND, PA 17557
1 1/2 Miles West of Blue Ball On Rt. 322

717-354-4726

Mon., Wed., Thurs. 8-8; Tues. & Fri. 8-5; Sat. 9-3



*Offer valid on all new and unused 1999-2001 Arctic Cat ATVs, except Hunter's Limited Edition models. Winch Kit installation is extra. Offer good at participating U.S. dealers. Financing is subject to credit approval. Terms may differ because APRs range from 9.95% to 18.95%, depending on creditworthiness. Offer valid 6/15/00-12/31/00. Excluding tax, freight and dealer setup. ATVs can be hazardous to operate. For your safety always wear a helmet, eye protection, and protective clothing. Never ride on paved surfaces or public roads. Never carry passengers, never engage in stunt driving and alcohol/drugs don't mix and could cause injury or even death. Avoid excessive speeds and be particularly careful on difficult terrain. The Arctic Cat ATV may not be ridden by anyone under 18 years of age. Arctic Cat recommends that all riders take a training course and that they read and understand their owner's manual before operation. For safety or training information, see your dealer or call the ATV Safety Institute at (800) 887-2887. Along with concerned conservationists everywhere, Arctic Cat urges you to "Tread Lightly" on public and private land. Preserve your future riding opportunities by showing respect for the environment, local laws, and the rights of others when you ride. ©2000 Arctic Cat Sales Inc. ®™ Trademarks of Arctic Cat Inc. Thief River Falls, MN 56701 (218) 681-4999. Warn® is a registered trademark of Warn Industries. Arctic Cat ATVs are world class products from Arctic Cat Inc.

Not a Seed of Doubt.

Through exhaustive testing and development on over 200 working farms in the Northeast and Mid-Atlantic, Agway's agronomic experts have removed the doubt from choosing seed corn hybrids. All Agway hybrids have been tested for success on farms just like yours, capitalizing on the latest genetic advancements and production practices.

For example: AG5496 features natural corn borer tolerance, fast dry-down, vigorous early growth and superior late season plant intactness. AG6399Bt contains the YieldGard® gene for locations where potential for European corn borer damage is high. It's an excellent choice for early planting, conservation tillage and easy harvesting.

So plant success, not doubt. Give us a call today for more information on how we can provide practical, proven seed solutions that help turn your toughest growing challenges into profitable results.

AGWAY

Practical Solutions.
Profitable Results.

WWW.AGWAYFARMSEED.COM

YieldGard is a registered trademark of, and used under license from, Monsanto Company.