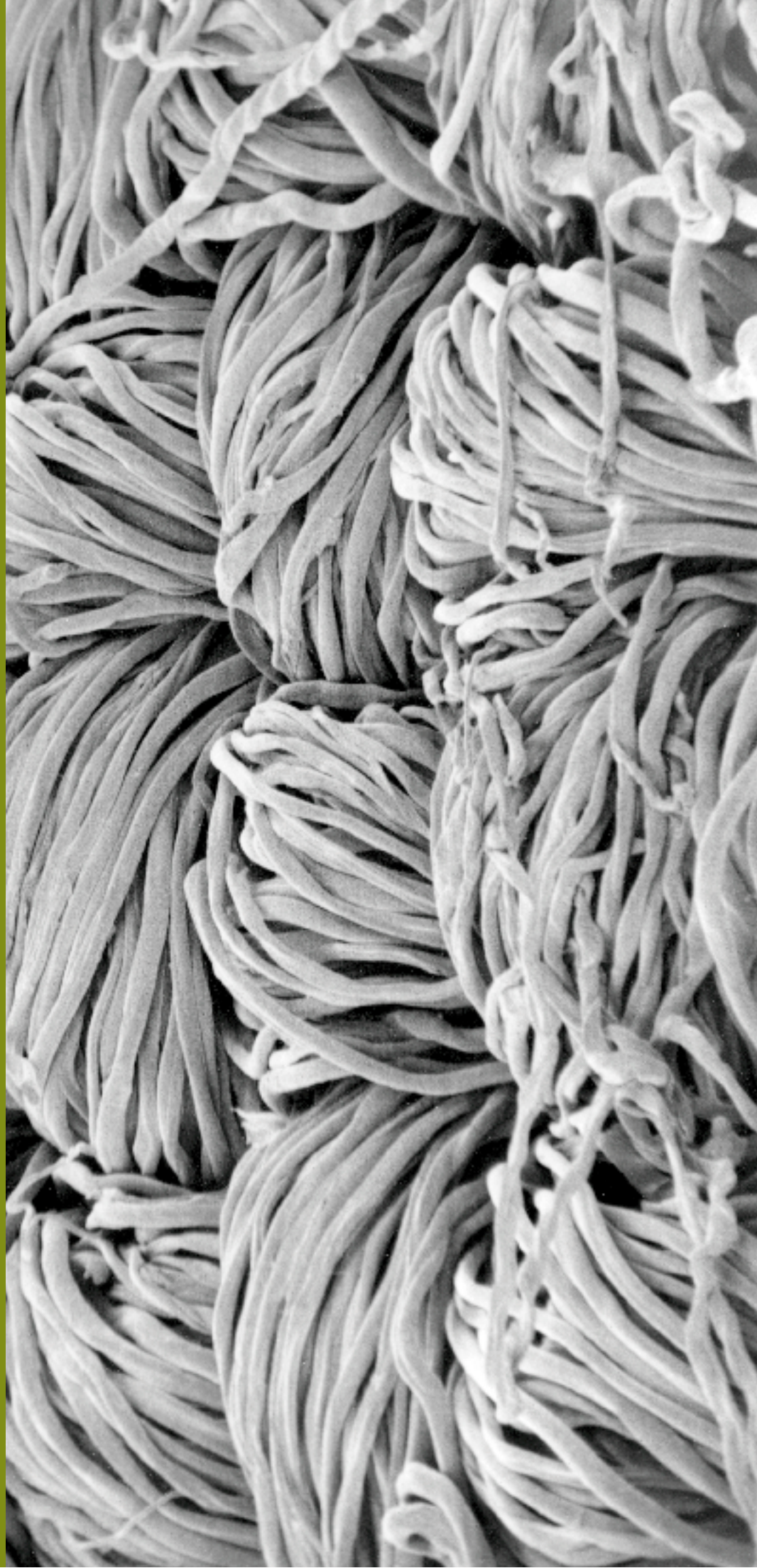


# THE COTTON FOUNDATION

Report to Members 2001



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The cover photograph is an electron micrograph magnification of woven cotton fabric. The computer-enhanced image was printed using a multi-color process, including silver ink.

THE COTTON FOUNDATION PROVIDES AGRIBUSINESS ANOTHER VALUABLE WAY TO SUPPORT THE U.S. COTTON INDUSTRY. IN ADDITION TO THE PRODUCTS AND SERVICES SUPPLIED TO THE INDUSTRY, THESE FIRMS CAN BE MEMBERS OF THE FOUNDATION, WHICH CHANNELS THEIR DUES EXCLUSIVELY TO COTTON RESEARCH AND EDUCATION.

CREATED AS A 501(C)3 ORGANIZATION IN 1955, THE FOUNDATION PROVIDES VISION AND LEADERSHIP TO THE U.S. COTTON INDUSTRY. TO ACHIEVE THIS MISSION, THE FOUNDATION IS PURSUING THESE MAJOR GOALS:

- SUPPORT PRESENT FOUNDATION LEADERSHIP AND MEMBER EDUCATION PROGRAMS;
- PROVIDE EDUCATIONAL PROGRAMS THAT IMPROVE SAFETY, PRODUCTIVITY AND ENVIRONMENTAL STEWARDSHIP OF THE INDUSTRY WORK FORCE;
- IDENTIFY SHORT AND LONGER TERM ISSUES FACING THE COTTON INDUSTRY AND THEN DEVELOP AND IMPLEMENT PROJECTS TO ADDRESS ISSUES OR NEEDS;
- DEVELOP AND PROVIDE FUNDING FOR PROGRAMS TO HELP INFLUENCE INDUSTRY AND GOVERNMENT RESEARCH;
- IDENTIFY LONG- TERM, INDUSTRYWIDE STRATEGIC ISSUES THAT WILL IMPACT THE COTTON INDUSTRY; AND
- IDENTIFY IN A TIMELY MANNER AND ASSESS THE IMPACT OF PROPOSED REGULATIONS.

## President's Message

Even with the availability of transgenic cottons and other modern tools, the U.S. cotton industry's need for cotton research and education has never been greater.

Yields were stagnant in the 1990s and fiber quality losses began trending up in the latter part of that decade. Prices have been chronically low, pressuring cotton producers' marketing skills.

Solutions must be found. The Cotton Foundation – founded as a problem-solving institution - has established priorities and is contributing vigorously to finding answers.

I am pleased to report that the Foundation is now backed by the solid support of 79 firms – a record membership level. Combined with various endowments, U.S. cotton's agribusiness alliance is fiscally sound.

Many foundations use up to 30 percent of all dues and grants to cover expenses. However, every dime of Cotton Foundation member dues goes to support its general research and education projects, and the Foundation retains only 10 percent of special project grants. This minimal retention for administration is due, in part, to the Foundation's access to National Cotton Council (NCC) resources and other in-kind services. Foundation-supported work also benefits from investments and rent monies from its Washington, DC, building. With these resources, it is estimated that the general projects enjoy a return of \$3 for every dollar invested.

During the 2000-2001 year, the Foundation provided \$469,500 to 31 general cotton research and education projects. The projects covered work ranging from identifying drought-tolerant cotton lines to improving air particulate emission measurement.

These investigations are addressing fundamental needs such as surveying cotton's losses to pests. They also are supporting the development of practical applications of leading edge technology such as ion mobility spectrometry for eliminating contaminants during ginning and hyperspectral remote sensing for keying on emerging pest populations in cotton fields.

Despite continued agribusiness consolidation, the Foundation's special projects remain strongly endowed by member grants over and above regular dues. These endeavors also contribute significantly to helping the NCC carry out its mission of ensuring the U.S. cotton industry competes effectively and profitably.

For example, the Congressional Staff Education and Orientation Program is helping U.S. cotton strengthen another important alliance with the federal government. By giving key congressional staffers a firsthand look at the industry's infrastructure and interaction with its leadership, government research agencies and agribusiness, the project is enhancing the NCC's efforts in seeking direct economic assistance for its members and indirect help in the form of additional research and market development funds.



This annual report provides updates on these and the other Foundation-supported activities. We should all be encouraged with the membership level, which makes possible the excellent work targeted at improving the U.S. cotton industry's health.

A handwritten signature in red ink that reads "Talmage Carihfield". The signature is written in a cursive style.

Talmage Carihfield, President

The Cotton Foundation

# GENERAL PROJECTS

## Market Development

### Pelleting Characteristics of Cottonseed Meal in Corn and Soy-Based Rations

The better the feed pellet, the better the performance by chickens, pigs and beef and dairy cows.

A study at Kansas State University is evaluating improvements in pelleting characteristics due to dietary fiber in cottonseed meal. Formulations containing up to 10 percent cottonseed meal are being studied for pellet quality and processing efficiency. Positive findings in this study will significantly broaden markets for cottonseed meal. Researchers believe a corn and soybean meal formulation containing 5 to 10 percent cottonseed meal may improve pellet quality because cottonseed meal is considered higher in fiber. Feed processing efficiency is being measured as well.

### Cottonseed Quality Improvement

This project's goal is to improve the quantity and quality of oil and protein in cottonseed – so producers and processors can realize greater economic benefits.

Under the oversight of cotton breeder John Gannaway, 129 breeding lines have been screened at the Texas A&M Agricultural Experiment Station in Lubbock. Research will continue on determining oil and protein quantity, fatty acid and amino acid profiles, and Vitamin E and gossypol content to determine the relationship of these traits to agronomic properties and lint yield. The objective is to selectively breed for these traits, release germplasm and develop enhanced cultivars.

Other project contributors include: the Southern Cotton Ginners Foundation (SCGF), the Texas Food and Fibers Commission and Cotton Incorporated.



A two percent increase in cottonseed's oil content would mean an increase in seed value of \$10 per ton.

### Detection of Seed Cotton Contamination by Ion Mobility Spectrometry

Seed cotton contaminants cost the U.S. cotton industry as much as \$5 million annually. More than half of the contamination is from plastic fiber, mechanically similar to cotton fiber, making separation at the textile mill virtually impossible.

The goal is to develop an ion mobility spectrometer (IMS) device that is economically practical and rugged enough for use in a cotton gin. During the past year, advances made in IMS detection limits have improved the success probability of sensing chemicals emitted by even small amounts of contaminating plastics in a gin drying system.

The next step is to modify and test a miniature IMS in a cotton gin and establish a software library of important compounds and a response strategy.

The investigation is at USDA-ARS Southwestern Cotton Ginning Laboratory in Mesilla Park, NM, in collaboration with New Mexico State University scientists. The SCGF is contributing.

# Profitability

## A Look at Row Spacing to Reduce Cotton Production Costs

University of California and University of Arizona researchers have studied several approaches to ultra-narrow-row (UNR) production. In 2000, two alternative UNR systems holding the most promise of reducing production costs in the arid West were studied. Included were: 1) double rows of cotton planted on beds and spindle picked and 2) flat-planted (10-15 inch row spacings), stripper picked.

Some of these systems have produced a 50 percent savings in water along with increased yields and preservation of equivalent or superior grades and fiber quality. In Arizona, lower growing costs were most often associated with minimum or no-till systems in fields that were late-planted after grain.

Data being collected and analyzed include plant mapping to determine differences in earliness and boll distribution between UNR and conventional systems, differences in inputs and differences between picker and stripper harvested. Seed cotton samples also were tested to determine lint percent, gin turnout and quality.



Arizona cotton producer Shannon Schulz has lowered production costs and preserved fiber quality with his ultra-narrow-row (UNR) cotton; in California's northern San Joaquin Valley, a UNR system of two rows 10 inches apart on 30-inch beds requires fewer inputs but results in increased yields.

## Beltwide Cotton Production Conference Planning

As a result of planning that included producers from each Cotton Belt state (representatives from such key organizations as the American Cotton Producers and leading cotton specialists), the 2001 Cotton Production Conference program featured the largest number of cotton producers ever addressing the needs and desires of their peers.

## Detection of Cotton Smoke by Ion Mobility Spectrometry

The goal is to determine if the ion mobility spectrometer (IMS) can be used: 1) to detect "fire-packed" bales arriving at the warehouse and 2) in a smoke detection system inside the warehouse.

Smoke sources have been sampled using a mini IMS, which has shown the capability to differentiate cotton smoke from other combustion products. Because the spectrometers can recognize the unique chemical fingerprint of burning cotton, early warning systems could be activated by a smoke detector while the fire is still smoldering inside the bale and before flames occur – a situation that leads to bales burning more rapidly. A workable detection system could prevent costly warehouse fires, preventing damage and higher insurance premiums.

This work also is being done at the USDA-ARS Southwestern Cotton Ginning Laboratory in Mesilla Park, NM, in collaboration with New Mexico State University scientists. The SCGF is contributing.

## Cotton Engineering, Ginning and Mechanization Endowed Chair

Funds continue to be raised to endow the Texas A&M University Chair in Cotton Engineering, Ginning and Mechanization. As of March 2001, more than \$660,000 had been pledged and nearly \$400,000 received by the university. It is anticipated that the \$500,000 minimum "cash-in-hand" – that needed to equal the matching funds program of the Texas A&M Foundation - will be received by the end of 2001 or early 2002.

The goal is to provide for: the continuation of leading-edge research programs in cotton engineering, including producing, harvesting, processing, storing and manufacturing of cotton and cotton products; technology transfer; strengthening the university Agricultural Engineering Department's undergraduate and graduate programs; student internships in all segments of the U.S. cotton industry; and professional development for students, industry personnel and the general public.

## Electronically Publishing the *Journal of Cotton Science*

The quarterly, on-line *Journal of Cotton Science* (JCS), available at [www.jcotsci.org](http://www.jcotsci.org), strives to improve the competitive position and profitability of the U.S. cotton industry by showcasing documented research from many disciplines, stretching researchers' thinking beyond horizons of their individual expertise, stimulating multidisciplinary projects and providing timely, easy-to-use research results.

By doing so, *JCS* gives producers, researchers, Extension personnel, crop consultants and others a central, easily accessible base of proven research findings in disciplines ranging from agronomy to textile processing. To date, *JCS* has received 212 manuscripts for peer review. Of those, 107 have been accepted, published online and archived on CD-ROM.



The on-line *Journal of Cotton Science* has received more than 200 manuscripts for peer review.



## Cotton Insect Hotline

Entomologist cooperators in Arkansas, Mississippi, Louisiana, Alabama, Georgia, Florida and California operated telephone hotlines in 2000. They recorded timely updates on cotton insect situations and made them available on toll-free 800 numbers 24 hours a day.

This information allowed producers, consultants, Extension personnel, county agents and others access to information that helped with crucial pest management decisions.

## Development of an Economic Model for Cotton Insect Management after First Flower

Researchers at the University of Arkansas and Arkansas State University are collaborating on this multi-year effort to help producers reduce their insect control costs, better manage pest resistance and increase public awareness of producers' environmental stewardship.

An economic injury level model for insect control rules for the period "after first flower" is being developed. The plant's stress resistance is being measured and used to assess the dynamic, boll-loading shifts associated with insects, photosynthesis and boll competition for resources. The ultimate goal is to incorporate the economic injury level model after first flower into the COTMAN computer software, which already contains a model for insect control rules before first flower.

## Evaluation of Advanced Hyperspectral Remote Sensing for Early Detection of Crop Damage

Hyperspectral remote sensing is a technology that has the potential to detect early stages of crop damage.

University of California-Davis researchers conducted large-scale field tests again in 2000 on cotton producer Ted Sheely's San Joaquin Valley farm in order to refine methods of accurately measuring spatially explicit canopy conditions such as chlorophyll and water content. Repeated measurements were analyzed and displayed as color-coded maps showing changes in the spectral signatures that correlate to changes in the crop's condition. The 2000 field measurements will be compared to field measurements of crop conditions taken by USDA collaborators at the University of California, Shafter Field Station.

Cotton Incorporated and NASA provide funding for this project.



To help in irrigation decision-making, crop consultant Jim Hill uses a pressure bomb to measure leaf water potential of plants on Ted Sheely's California farm as part of a hyperspectral remote sensing research project.

## Evaluation of the Cotton Genotypes for Tolerance or Resistance to Early Season Thrips Injury

This University of Arkansas project is screening more than 100 cotton cultivars to determine whether any have genetic tolerance or thrips resistance. Such cultivars would improve seedling vigor and potentially improve the plant's ability to survive disease attack. At the least, cotton plant resistance to thrips injury potentially would reduce or eliminate the need for early season insecticide use and increase the probability that the beneficial arthropod population would survive to combat secondary pest outbreaks.

## Gin Management & Technology Program Enhancements

The addition of a micro-gin at Mississippi State University's Pace Seed Technology Laboratory is helping extend the learning opportunities for students in the university's Gin Management & Technology program.

Professional modification of the existing feed control unit and installation of the unit, piping and burner will begin in the summer of 2001. A bale press will be obtained later.

Founded in 1995, the program has a goal of providing competent professionals for an ever-changing ginning industry. The SCGF has contributed.

## Enhancing Cotton Production Research and Education Programs in Kansas

After a slow start in the early 1990s, Kansas cotton acreage has increased steadily.

This project is helping Kansas State University meet the subsequent demands for cotton-related research and information dissemination. In 2000, date of planting, seed applied insecticide, weed control, chemical defoliation and dates of harvest studies were conducted along with variety testing at



Chemical defoliation and other studies were conducted along with variety testing at six locations in Kansas.

six locations. In addition, a research gin was purchased – a move that has reduced the amount of time and expenses associated with processing research and demonstration samples and getting the data into Kansas producers' hands.

## Implementation of Profitability Initiative

The NCC is identifying new, start-up or existing programs to improve the unit cost of production.

The efforts are being carried out in four action steps: 1) continued support for precision agriculture initiatives, 2) public support for crop genetic programs, 3) an accountability system for determining cotton research priorities and 4) Internet initiatives that include coordination of information to help speed adoption of emerging technology and to ensure industry members gain more value from those data and tools.

## Management of Ultra-Narrow-Row Cotton Production

A Texas A&M University Ph.D. student is trying to determine the best way to manage the fertility and varietal interactions in an ultra-narrow-row cotton production system.

Responses of cotton in 7.5-inch row spacings are being compared with those of two other narrow row spacings, 15 and 30 inches, under varying nitrogen rates. Photosynthetic rates are being compared among the treatments to determine if differences exist. Data are being collected on seed cotton yield, percent gin turnout and fiber quality properties.

## Enhancing Cotton Industry Education and Information through the Development of a Cotton Web Portal

The NCC/Foundation web site at [www.cotton.org](http://www.cotton.org) continued to grow in 2000. Visitor traffic increased 43 percent, with more than 12,000 unique users visiting the site in January 2001.

Items added to the site were: broadcast quality versions of the AgDay Cotton's Week television production; Cotton Newline; the Cotton Risk Management Network; redesigned Cotton Foundation and Beltwide Cotton Conferences sites using new content management software; bale packaging and quality preservation publications; and National Boll Weevil Eradication Program information.

This project also assumed duties related to the NCC's weather site.



*Attendees at the 2001 Beltwide Cotton Conferences were able to navigate the NCC web site and learn about features to be included in the site's spring 2001 redesign.*

The newly redesigned NCC site was scheduled for launch in spring 2001. New content management software already is streamlining site updates, which includes incorporation of the NCC's EconCentral site.

In addition to enhancing NCC web site management, the software has enabled the site to accommodate other features such as educational materials ordering, Beltwide Cotton Conferences' pre-registration and a searchable database of cotton physiologists.

## Surveys of Cotton's Losses to Pests

Annual estimates of cotton losses due to specific disease, insect and weed pests are made available to both the public and private sectors. The information is published in the Beltwide Cotton Conferences' proceedings and in professional and farm trade publications.

The Cotton Belt data, which are gathered at the Coordination Center at Mississippi State University, are useful for analyzing the market potential for new plant protection products, in establishing the importance of currently registered products that are threatened by cancellation or use restrictions and for setting research and educational priorities.

## Solar Sterilization of Gin Trash



This project, being conducted out of the University of Arkansas Northeast Research and Extension Center, is aimed at determining the proper storage method for gin by-products that may provide enough internal heat to reduce weed seed germination and disease incidence.

Researchers are comparing the effects of: 1) untreated/uncovered check, 2) covering with clear plastic and 3) covering with black plastic.

University of Arkansas researcher Eddie Gordon checks gin trash for evidence of weed seed germination.

## Quantifying the Value of Cotton Gin By-Products as a Soil Amendment for Low-Yielding Soils

Disposal of gin by-products (trash), which often amount to 200 pounds per ginned cotton bale, is an inconvenience and expense for ginners.

University of Arkansas research is determining the soil application rates of gin by-products that will provide an organic supplement equal to proven materials. First-year data from tests on rice indicate that cotton gin by-products can provide similar results – increased yields - as poultry litter. Additional tests will be conducted in 2001 to validate those results before specific recommendations can be made.

## Engineering Chemical and Enzymatic Pre-Treatment of Cotton Gin Trash for Enhanced Ruminant Feeding Value

The highest value usage of cotton gin trash is for feeding to ruminant animals.

Researchers at the University of Tennessee are using hydrogen peroxide in combination with sodium hydroxide as a treatment to improve the digestibility and nutritive value of gin trash. Specifically, the scientists are evaluating the process variables of this chemical treatment. They also will investigate the potential of blending gin trash with aqueous ammonia and poultry manure to increase protein content.



University of Tennessee engineer Mike Buschermohle grinds gin trash to reduce the sample's particle size prior to performing in vitro analysis to determine the trash's digestibility.

## Screening Converted Race Stocks for Cotton Seedling Drought Tolerance

Drought and high temperature stress can reduce crop plants' yields by as much as 71 percent.

Texas A&M University researchers have identified five heat-stress tolerant converted cotton race stocks and are investigating whether any of these possess drought tolerance. Researchers also will determine the drought stress tolerance of the other 74 converted race stock lines. A short-term project goal is to initiate a hybridization program to incorporate any identified drought tolerance into commercially competitive phenotypes.

Long-term goals are to identify: 1) the molecular and biochemical basis for drought stress tolerance in cotton and 2) genetic constructs for map-based gene transfer and/or marker assisted incorporation of genes into adapted types.

## Regulatory

### Development and Commercial Evaluation of the Use of Atoxigenic Strains to Prevent Aflatoxin Contamination

USDA Agricultural Research Service scientist Dr. Peter Cotty continues his research in Arizona to control or eliminate aflatoxin contamination of cottonseed. Fields are seeded with atoxigenic (natural varieties of *Aspergillus flavus* that do not produce aflatoxin) *A. flavus* strains colonized on wheat seed in order to reduce the aflatoxin-producing potential of resident fungal populations.



A manufacturing process for commercial production of atoxigenic strains of aflatoxin is being refined.

Work continues on getting full EPA registration for AF36 – the atoxigenic aflatoxin strain that is being successfully used to reduce aflatoxin levels in cottonseed. Work also continues on using wheat seed as a colonized medium. Improving processing as well as efficiency in colonization itself are being emphasized. Crop assessments on almost 20,000 acres in Arizona in 2000 continued to demonstrate the ability of atoxigenic strain applications to reduce the aflatoxin-producing potential of fungal communities residing in agricultural fields. Cotty is defining environmental conditions under which atoxigenic strains performed best and developed an assay to assess product survival in non-sterile soil.



Jeff Nunley, executive director, South Texas Cotton & Grain Association, and his uncle, John Nunley, help sample soil to check for aflatoxin-producing fungi near Port Lavaca, TX.

In 2001, Cotty continued assessing the long-term efficacy of areawide treatments on 20,000-30,000 acres and identifying agronomic practices favoring atoxigenic strains. He also will complete accumulation of ecological data on the distribution and quantity of *A. flavus* in natural habitats for submitting to EPA. The USDA Multi-Crop Aflatoxin Working Group and IR-4

Biopesticide Research Program and Cotton Incorporated support this work and a similar South Texas effort.

### Preliminary Assessment to Establish Parameters for Reduction of Aflatoxin Contamination in South Texas

South Texas has experienced devastating aflatoxin contamination of corn and cottonseed in recent years. USDA Agricultural Research Service scientist Dr. Peter Cotty, in a manner similar to Arizona research, is evaluating the use of atoxigenic strain technology for management of aflatoxin contamination in this region. This includes evaluating the use of soil applied wheat seed colonized by an atoxigenic strain of *A. flavus* that is native to South Texas. Incidence of atoxigenic strains in the soil prior to application and one year after application will be determined.

## Evaluation of PM2.5 Samplers Using the Coulter Counter Multisizer

Texas A&M University researchers continue to evaluate the various EPA-approved, particulate matter PM2.5 Federal Reference Method samplers. They found that the Air Pollution Regulatory Process does not distinguish between different sources of PM. The goal is to develop a high volume PM2.5 sampler that can be used to measure PM2.5 concentrations more accurately. This effort is needed as a PM2.5 National Ambient Air Quality Standard has been approved. This will result in a significant increase in the number of non-attainment areas, including many where cotton is grown and ginned. The SCGF contributes to this effort.

## Use of Particle Size Distributions for Measurement and Modeling of Emissions from Agricultural Operations

In their research to develop a more accurate means to predict downwind concentrations of PM2.5, engineers have determined that the standard by which EPA determines the accuracy of a subject sampling method needs to be modified. Researchers at Texas A&M University are trying to size accurately particulate matter (PM) sampled downwind from an agricultural source, such as a cotton gin. These sizing data are necessary for the analysis of the particle size distributions (PSD) of cotton gin dust samples, which are obtained using both the Coulter Counter Multisizer and Cascade Impactor.

The objective is to obtain EPA approval of the Coulter Counter Multisizer method for the determinations of PSDs of agricultural emissions of PM. The ultimate goal is to ensure that sources are regulated fairly. This work is also supported by the SCGF.

## Implementation of the Fritze/Zwicke Dispersion Model for Agricultural Operations

Texas A&M University scientists are testing the performance of a dispersion model that predicts downwind concentrations of pollutants from gins and other agricultural operations. The aim is to improve the model's accuracy and get EPA approval of it for use as a predictor. Research thus far has shown that current dispersion models over-predict downwind concentrations of particulate by 3 to 10 times when applied to low level point sources, such as cotton gins, feed mills or grain elevators. As part of this ongoing research, a new, more accurate model has been developed – one that accounts for short-term changes in wind direction. The major hurdle to be overcome is to adapt the model to employ one-hour weather data while still accounting for wind direction variation. The SCGF also supports this research.

## Cyclone Testing

Extensive work has been completed to determine how a cyclone's dimensions and its operating conditions affect its performance. However, because the engineering data associated with air and particle flow patterns in the cyclone are difficult to measure accurately, engineers are developing a sound science description of the cyclone's operation that can be used to facilitate engineering design.

Texas A&M University engineers will continue to test various cyclone configurations and Barrel cyclones with different inlet loadings of high and low lint trash plus fine dust. The results will be used to determine the best cyclone systems – the most efficient pollution abatement systems. The SCGF contributes to this effort.

## Survey and Research on Potential Consumer, Environmental and Workplace Hazards

The Foundation is cooperating with several associations in generating and compiling various data. These data are useful in helping the U.S. cotton industry respond to rulemakings by various regulatory agencies to avoid unreasonable regulation and to carry out information/education programs.

For example, burn incidence data added to a national database was helpful to retention of the Children's Sleepwear Flammability Standard; hexane emissions data helped get more reasonable emission limits for large and small cottonseed oil mills.

The project also supported the gathering of information on: 1) hexane, dioxin, lead and oilseed processing products; 2) crystalline silica, ergonomics and other workplace health risks; and 3) particulate matter emissions from gins and textile processing. These data have been useful in preventing unnecessary regulations for hexane, OSHA standards and other potential regulations.

Support also allowed for cotton industry participation in a multi-organization study supporting the industry's position to standards being proposed by the Consumer Product Safety Commission. The study allows comprehensive analysis of the true costs of proposed open-flame flammability regulations.

### Worker Protection Standard Education

NCC continued to distribute newsletters and information sheets as part of an educational package on compliance with the Worker Protection Standard on the cotton farm. The materials are sent to 10,000 producers, consultants, Extension personnel and others.

EPA staff assisted with the newsletter content, including help with liberal interpretation of WPS implementation strategies.

### Assessing the Demand for Cottonseed and Cottonseed Products

In an average year, cottonseed accounts for approximately 20 percent of the total revenue generated from a cotton acre.

NCC and National Cottonseed Products Association staff are assessing the market demand for cottonseed and cottonseed products and developing a predictive model of the oilseed crushing industry to: 1) estimate the price/demand impacts of proposed regulations and 2) assess the cottonseed industry's vulnerability to an increased regulatory burden. A third objective is to assess the economic impact of regulations affecting the cottonseed crushing industry on U.S. cotton farmers and ginners.

### Emergency Funds

Some funds are kept available as emergency support for high priority projects that may not be anticipated during the normal cycle of project planning. In 2000, efforts supported by contingency included providing seed money for initiating investigations into pathological causes of bronze wilt. Support allowed researchers at the University of Arkansas, Clemson University and the USDA/ARS Cotton Pathology Laboratory to begin work for "Clarification of the Role of *Agrobacterium* species in Bronze Wilt of Cotton."



A new method for open flame testing of mattresses is being developed by the National Institute of Science and Technology.

# COTTON FOUNDATION MEMBERS

**ag-chem EQUIPMENT CO., INC.** Ag-Chem manufactures and markets the pre-emerge Terra-Gator high flotation applicator and the post-emerge RoGator high clearance sprayer. Ag-Chem also offers a line of high-tech, site-specific computer systems, software, data management and related support systems. Products are sold and serviced by a direct sales force to both dealers and farmers.

**agdia** Agdia produces and distributes *HeID*, the diagnostic test kit that identifies both the bollworm and the budworm in the egg stage. Agdia also markets GMO tests, including Cry1Ac (Bollgard), Cry9C (Starlink), Cry2A and Cry1Ab, which detect Bt-endotoxins in transformed cotton and other plants for U.S. cotton producers. Agdia also develops test kits and lab testing services to detect pathogens in plants.

**Ag Leader Technology** Ag Leader Technology manufactures a full line of precision farming tools, including yield monitors for cotton pickers and grain combines. The PF3000 monitor/controller with add-on GPS 3000, 3050 or 3100, or the ruggedized PF3000 Pro with built-in GPS; SMS Basic desktop PC software; and the parallel-swathing Lightbar; provide tools for year-round precision farming from soil sampling through fertilizing, planting, spraying and harvesting.

**AGRIplan** AGRIPLAN is dedicated to bringing technological innovation to cotton growers and ginners. For the grower, AGRIPLAN delivers Cotton Yield Monitor for pickers and strippers, GPS receivers, swath guidance systems and PC mapping software. These products enable the grower to apply site specific (precision farming) techniques on their farms. In a gin, AGRIPLAN cotton FLOW SENSORS and CONTROLS are used to monitor cotton and lint flow and adjust gin operating conditions. AGRIPLAN helps enhance lint quality and increase gin throughput. Visit our web site: [www.agriplaninc.com](http://www.agriplaninc.com) or call (978) 562-5000.

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**BASF** BASF Agricultural Products strives to be the provider of knowledge and innovative solutions for cotton growers. Researching innovative crop management tools, such as Pix® Plus and Pix® Ultra plant regulators and developing the knowledge to implement profitable production techniques such as Ultra-Narrow-Row Cotton® are part of the commitment. More information about BASF, Pix® Plus, Pix® Ultra and Pix® plant regulators, Prowl® and Poast® herbicides and Thimet® soil and systemic insecticide, is available at [www.agproducts.basf.com](http://www.agproducts.basf.com). PROWL®: contributes to an earlier and more profitable cotton crop by effective weed control and superior crop safety. THIMET® soil and systemic insecticide: contributes to an earlier and more profitable cotton crop because of its effective insect control and superior crop safety.



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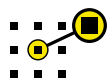
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Case IH is a leading worldwide manufacturer and marketer of Case IH agricultural equipment including tractors; COTTON EXPRESS pickers; AXIAL-FLOW combines; tillage, planting and seeding, hay and forage, and material handling products.



CHEMINOVA Cheminova A/S is the basic producer of time proven plant protection chemicals for cotton and the other crops. These products include METHYL parathion, ETHYL parathion, DIMETHOATE, FYFANON brand of malathion, NUFOS brand of chlorpyrifos and GLYFOS brand of glyphosate. Cheminova, Inc. is the distributor of Cheminova A/S products in the U.S.



FARMSCAN Computronics Corporation's Farmscan division - market leaders in the design and manufacture of electronics for agriculture. In 2000, Farmscan was awarded the AE50 Award for 'Innovation in Systems Technology' for their 'Canlink 3000 Yield Monitor'. The 'Canlink 3000' is a complete precision farming system with yield mapping, soil sampling and variable rate capabilities. [www.farmscan.com](http://www.farmscan.com)



Complete Cotton Ginning Systems including gin stands, feeders, lint cleaners, pre-cleaning equipment, module feeders, suction unloading systems and a wide variety of baling presses; Acid Cottonseed Delinting Systems - IMPCO seed cleaning, mechanical cottonseed delinting and decorticator separator systems. - Textile Bale Presses - Repair and Service.



Cotton Net Limited is the unique global internet trading floor for raw cotton at [www.cotnet.co.uk](http://www.cotnet.co.uk). The system has been developed so that producers, cooperatives and spinners and other users are connected directly with each other. Cotnet operates 365/24. Our system is fast, secure and all bids and offers are guaranteed anonymity.



DTN provides cotton producers with time-sensitive market information 24 hours a day. From futures and LDP rates to weather and news, DTN keeps the cotton industry informed. DTN Cotton Network provides an efficient electronic marketing tool for sellers and buyers as well as gin and warehouse software.



Delta and Pine Land Company is a commercial breeder, producer and marketer of cotton planting seed, as well as soybean seed in the Cotton Belt. For more than 80 years, the Mississippi-based company has used its extensive plant breeding programs drawing from a diverse germplasm base to develop superior varieties sold under the Deltapine, Paymaster and Sure-Grow product lines.



DirectAg.com is a comprehensive business-to-business Internet site providing agriculture producers with a broad offering of information and a growing number of agriculture products and services. DirectAg.com offers current markets and agriculture news, gives farmers free access to experts and makes name brand, high-quality products available any time of day or night.



**Dixie Wick** The Dixie Wick Company manufactures the only row wick applicator which can be calibrated for applying mequiquat chloride to the growing cotton plant. This process facilitates earliness of fruiting and harvest and uniformity without reducing canopy fill-in. The applicator is convenient to piggyback with other operations and eliminates spot spraying. Check our website: [www.skantect.net/dixiewick/index.html](http://www.skantect.net/dixiewick/index.html).

**Dow AgroSciences** Tracer\* Naturalyte insect control; Treflan\* herbicide; Lorsban\* -4E insecticide; Telone\* soil fumigant; Glyphomax\* Plus herbicide; and Pendimax\* 3.3 herbicide. Additionally, PhytoGen™ cottonseed. \*Trademark of Dow AgroSciences LLC ™Trademark of Phytogen Seed Company, LLC

**DUPONT** DuPont Crop Protection Asana® XL, Lannate®, Steward™ and Vydate® CLV insecticides; Assure® II, Harmony Extra®, Staple™ and Staple® PLUS herbicides.

**ecotton** E-Cotton.com - online commodity and information exchange for the U.S. cotton industry, [www.ecotton.com](http://www.ecotton.com).

**EDEN** Eden Bioscience Corporation develops new protein-based crop protection products for cotton and other crops. Messenger® is the first of these products available for cotton production. Through a novel mode of action, this class of protein-based biopesticides reduces loss from nematodes, boll rot and hard lock; and improves yield potential. For information, call 1-888-879-2420 or visit us at [edenbio.com](http://edenbio.com).

**ENVIROLOGIX** EnviroLogix develops rapid test kits for detecting and measuring GE (genetically enhanced) traits in genetically modified varieties of cotton and other crops. Two test formats: lateral flow QuickStix™ strips for rapid yes/no results in 5 to 10 minutes and the microwell plate format for quantitative results within 2 hours. Tests for Bt cotton seed and plant tissue (Cry2A) are currently available, others are under development and coming soon.

**Farm Journal** FARM JOURNAL, the nation's largest circulation magazine for farmers, has been a voice for American agriculture since its founding in 1877. In its COTTON TODAY section and throughout the magazine, award-winning editors analyze crop production, agricultural policy and marketing. The Farm Journal Corporation publishes TOP PRODUCER, BEEF TODAY and DAIRY TODAY magazines and PRO FARMER, AGTRADER and LANDOWNER newsletters. Its AgDay television program is seen on 175 stations and Farm Journal Radio Network is broadcast on 400 stations. FARM JOURNAL's content is found online at [www.AgWeb.com](http://www.AgWeb.com). For information, call 800-523-1538.

**FARM PRESS** Sunbelt producers turn to the Farm Press publications for the timeliest, most thorough coverage of crops and issues important to them. Since Delta Farm Press started more than a half-century ago, the company's publications have become "the bible" in the areas they serve. The Farm Press division of Intertec/PRIMEDIA Publishing includes Southeast Farm Press, Delta Farm Press, Southwest Farm Press, Western Farm Press, Delta Agricultural Digest and Southeast Agricultural Digest. Delta Farm Press is co-sponsor of the Mid-South Farm & Gin Show, the South's largest indoor farm show, and produces the official program. Farm Press also produces or co-sponsors several other shows and conferences around the Sunbelt, as well as special publishing projects, electronic media and list rentals.

**FARM PROGRESS COMPANIES** Farm Progress covers the U.S. with 35 state and regional publications making it the nation's largest agricultural information provider. In addition, the company is a leader in database marketing and produces nine farm shows, including the Farm Progress Show, the Carolina Farm Show and the Mid South Ag Expo.

**FARMSAVER** FarmSaver.com LLC was founded by agricultural veterans dedicated to providing US growers high quality agricultural inputs at considerable savings. From manufacturer to farm, FarmSaver.com provides the cotton industry with Acepate 75/90 S and Mepiquat Chloride. Check us out and save at [farmsaver.com](http://farmsaver.com).

**FMC** Supporting cotton growers by providing these cotton protection products - Ammo®, Fury®, Mustang™, Pounce®, Thiodan®-Cottonseed Oil, and Methyl Parathion-Thiodan insecticides; Capture insecticide/miticide®; Command® herbicide; Furadan® insecticide/nematicide.

**Griffin** Griffin Agricultural Chemicals Group provides Cotton Producers with quality cotton products including CottonQuik, Cotton-Pro®, Cy-Pro4L, Cy-Pro90DF, Direx 4L®, Direx®80 DF, Early Harvest® PGR, Mepex™, Meturon®4L, Meturon®80 DF, Super Boll, Trilin® and Trilin®5. For more information, contact Griffin Corporation, P.O. 1847, Valdosta, GA 31601, 912/242-8635.

**Gustafson** Gustafson LLC is North America's leading developer and supplier of proprietary seed amendment and seedling protection products. For cotton, these products include Gaucho® insecticide; Baytan®, Vitavax®, Thiram® and Allegiance™ fungicides; and Kodiak® biological fungicide. The Gustafson product line also includes seed coatings, seed treatment equipment, treatment applicators, automatic sampling equipment and stored grain protectants.

**HELENA** The most trusted, innovative and respected distributor of agricultural inputs in the Cotton Belt, Helena offers cotton producers a complete line of production inputs and services. Our expanding line of useful specialty products include high quality inputs in many categories: Spray Adjuvants: Seed Treatments, Nutritional, BioScience and Value-Added Products.

**INDUSTRIAL LABORATORY EQUIPMENT** Industrial Laboratory Equipment Company, Inc., manufactures physical testing equipment that measures fiber properties and textiles to help mills and gins calibrate their equipment. The equipment also tests textile finishing and processing chemicals and dyes.

**INTELLIGENT DECISIONS INCORPORATED** IDI develops software for gins, warehouses and buyers of cotton. Additionally, IDI owns Intelligent Storage Services, Inc. (ISSI), a provider of Electronic Warehouse Receipts to the cotton trade. We are building systems and forming partnerships to shape the future of the Electronic Cotton Industry.

**IIFP** International Fiber Packaging is the world's leading bale packaging supplier. Manufacturers of: Cotton Topper™ module covers; Car-Lok™ and Herculite™ bale ties; bagging including polypropylene, polyethylene and burlap; Car-Loker™ semi-automatic chute and door systems, Ultra Twist™ automatic bale tying and wrapping systems and Ultra Rebander™ bale repairing equipment.

**JOHN DEERE** One of the world's oldest and most respected enterprises, John Deere ([www.JohnDeere.com](http://www.JohnDeere.com)) creates smart and innovative solutions, in the form of advanced machines, services and concepts, for customers on the farmsite, worksite and homesite worldwide.

**KBH CORPORATION** THE KBH CORPORATION is the national leader in cotton handling equipment, manufacturing the "Cotton House" module builder, the "Mule Boy" cotton cart and liquid and dry fertilizer equipment.

**KEITH WALKING FLOOR** The Keith Walking Floor module feeder is the safest, most versatile system available to provide steady metered flow to your dispersal head. No gear, rollers or chains to create safety hazards and maintenance problems. For the only module feeder you can walk and drive on, call Keith Sales Company today at 800-547-6161.

**LUMMUS CORPORATION** Lummus Corporation is a worldwide leader in the manufacturing and marketing of a complete line of cotton ginning machinery and replacement parts, including gin stands, feeders, lint cleaners, pre-cleaning and baling equipment.

**JACK MAUNEY** Providing research advice to growers and companies searching for answers to tough questions.



The great cotton industry is well-served by a host of Meister Publishing Company specialized agricultural offerings, including the largest-circulation vertical, COTTON GROWER, and its sister publication, COTTON GROWER PLUS, targeted to the business needs of 250+ acre growers. Meister is the world's largest publisher of cotton information, yearly producing COTTON INTERNATIONAL, the world's foremost annual publication summarizing global cotton production and marketing, as well as COTTON INTERNATIONAL'S "Global Meeting Preview", a mid-year edition covering issues facing the important international cotton gatherings. Other Meister offerings involved heavily in the production of cotton include AG CONSULTANT, FARM CHEMICALS, FARM CHEMICALS HANDBOOK, WEED CONTROL MANUAL and the INSECT AND DISEASE CONTROL GUIDE.



PGR IV, Mepichlor and Ethephon plant growth regulators; Acephate, Azinphos Methyl, Dimethoate, Endosulfan, Malathion and Methyl Parathion insecticides; FLO-MET herbicide.



**MICRO-TRAK SYSTEMS, INC.** Micro-Trak Systems, Inc., based in Eagle Lake, MN, is a manufacturing company that is committed to the development of

electronic monitoring and control systems that help promote economic growth while preserving environmental quality. Products include acre counters, flow monitors, sprayer monitors and automatic rate controllers for liquid, dry and anhydrous. Also included are "On-The-Go" yield monitors for grain and cotton, DGPS receivers and guidance/lightbars.



A manufacturer of agricultural and industrial chemicals which produces and markets all three primary crop nutri-

ents. Nitrogen products are manufactured in Yazoo City, MS; Donaldsonville, LA; and the company's joint venture in The Republic of Trinidad and Tobago. These products include anhydrous ammonia, UAN solutions, nitric acid, urea and Amtrate. Potash is produced at Carlsbad, NM, and diammonium phosphate at Pascagoula, MS.



## MONSANTO

Monsanto develops and brings exciting new plant technologies to the cotton market. Now commercially available are the Bollgard gene for season-long in plant budworm and bollworm protection, and Roundup Ready cotton which allows in-crop treatments of Roundup Ultra herbicide for dependable, broad spectrum weed control in any cotton production system and all soil types. Both technologies are available in leading cotton varieties from multiple seed company partners.



The National Alliance of Independent Crop Consultants is a national organization representing more than 500 crop consultants and contract researchers across the country. Members are experts in crop care, integrated pest management, integrated crop management and contract research as well as applications in biotechnology and sustainable agriculture. Membership requirements include bachelors degree and four years of experience in agricultural research or in advising grower clients on how to integrate biological, cultural and other alternative practices into their crop production programs. Recommendations and/or technical data is provided for a fee that is itemized and billed to clients, and consultants do not receive compensation for a client's purchase of products.



National Bank of Commerce, Memphis: Financing cotton requires a lender with knowledge and experience. NBC has proven capabilities servicing the financial needs of companies involved in all phases of agri-business from producer to the mill.



The world leader in micro irrigation technology for more than 30 years, Netafim USA offers micro irrigation systems for cotton and other crops.

Netafim USA systems include dripperline, valves, filters and air relief, and deliver precise amounts of water and nutrients to every plant in a variety of terrains and environments.



The New York Board of Trade (NYBOT) is the parent company of the Coffee, Sugar & Cocoa Exchange, Inc. (CSCE) and the New York Cotton

Exchange (NYCE). Through its two exchanges and their subsidiaries and divisions, including the New York Futures Exchange (NYFE), FINEX and Citrus Associates, NYBOT offers a wide variety of agricultural, currency and index products. The New York Cotton Exchange, the world's premier cotton futures and options marketplace, has provided the cotton industry with reliable price discovery and risk management capabilities since 1870.



"OmniSTAR, Inc. provides high quality The Global Positioning System Differential GPS correction services over most of the World's major landmasses, including North, Central and South America. OmniSTAR capability is now built into a growing number of DGPS receivers designed specifically for agricultural applications. OmniSTAR is recommended for critical operations, such as equipment guidance and chemical application operations, where maximum accuracy and reliability are required."



Plato Industries Ltd. supplies the Boll Weevil Eradication Programs and Cotton Producers with Boll Weevil Traps, their corresponding pheromone and insecticide dispensers and Boll Weevil Attract and Control Tubes.



PROGRESSIVE FARMER concentrates its editorial focus on the South and Midwest regions. Subject matter is localized to regional and state editions. More than 90% of editorial content is devoted to farm production, farm management, machinery, crops, livestock and other information applicable to Southern and Midwest agriculture. The PROGRESSIVE FARMER COTTON REPORT is a news-formatted publication emphasizing marketing, policy, economics and production. It is mailed to 100+ acre cotton producers. www.progressivefarmer.com



"QuickFarm is a farmer-based company that provides input procurement services for professional row-crop farmers. It also designs software applications such as financial management tools, online customer account access and Web development to help automate gin operations and reduce their costs."



**The crop insurance industry leader**  
www.rainhail.com

Rain and Hail L.L.C. provides cotton growers with insurance products to manage their downside production and quality risks. The same products can be used to backstop forward pricing and hedges that can result in improved prices and profits. We currently service more than 200,000 policyholders throughout the U.S.



Manufacturer of spray equipment designed to apply crop protection products safely and accurately. Since 1984, Redball has strived to develop innovative products that are both cost effective and farmer friendly. Our current offerings include: hooded sprayers side and front mount tractor tanks, planter pump kits, three-point mounted sprayers and high clearance pull-type sprayers. Tank sizes range from 25 to 1600 gallons and boom sizes range from 5 to 100 feet.



Resolution Sciences Corporation is an image informatics company specializing in cutting edge, three-dimensional imaging of biological tissue and other structural and fiber based materials. Pore size, density, fiber porosity, mean fiber diameter and void volumes all can be detected and calculated for research.



Manufacturer of CONFIRM insecticide, DITHANE® fungicide, GOAL® herbicide, KELTHANE® miticide and LATRON spray adjuvants.



Rome Plow Company, L.P. is an independent Georgia Limited Partnership established in 1932 in Rome, GA, and moved to

Cedartown, GA, in 1934. Today, Rome provides a line of comprehensive and quality tillage products including harrow field cultivators, chisel plows, scrapers and the Rome-Pegasus cotton plow.



A worldwide leader in the manufacture, sales and servicing of completely Automatic Bale tying Systems for cotton baling using Samuel Strapping Systems textile industry preferred polyester bands specifically engineered for use in these system applications. Samuel systems are adaptable to any new or existing baling press. For more information, please give us an opportunity to discuss your operation, 1-800-359-9222.



World's leading manufacturer of fully automatic strapping equipment for bale packaging developed the High Strength Tenax plastic strap to provide a reliable, cost effective and safe bale tie system for the cotton industry.



### Southern Cotton Ginners Foundation

The Southern Cotton Ginners Foundation is a non-profit organization composed primarily of Southern Cotton Ginners Association members in Mississippi, Arkansas, Louisiana, Tennessee and Missouri, and all other individuals interested in funding scientific, educational and charitable endeavors for the advancement and betterment of the cotton ginning industry.

### STOCKHAUSEN

Degussa-Hüls Gruppe

Stockhausen, Inc. is a basic manufacturer of more than 800 polymers and specialty chemicals, with its U.S. operations based in Greensboro, North Carolina. It serves the agricultural market with two lines of polymers. Super-absorbent polymers, which trap water and water-soluble nutrients and make them available for plant uptake, and linear co-polymers, which increase efficiency of irrigation systems and reduce water and soil erosion.



### Stoneville Pedigreed Seed Company

Stoneville Pedigreed Seed Company is recognized as a leader in the U.S. cotton industry for the development and marketing of improved varieties of cotton planting seed. Stoneville breeders constantly strive to improve the yield, fiber quality and agronomic performance of each and every variety we release through the combination of a strong program of traditional plant breeding and the integration of value-added traits from biotechnology. At Stoneville, we're all about . . . Perfecting the Seeds of Technology.



### STOVER EQUIPMENT CO., INC.

Stover Equipment Co., Inc. provides the cotton ginner and farmer with the most advanced form of module ginning and module handling equipment. Products offered include the "Stover Cotton Module Truck," the "Stover Chain Bed Module Feeder" and the "Stover Moving Floor Feeder," for both cotton gins and textile mills. Our website is [www.stover-equipment.com](http://www.stover-equipment.com) and email is [info@stover-equipment.com](mailto:info@stover-equipment.com).



### SDI

Strategic Diagnostics Inc. (SDI) is the world leader in developing and manufacturing diagnostic test kits for detecting genetic modification in crops and seeds using immunoassay technology. SDI is the primary supplier to the cottonseed industry of quick tests used for determining genetic purity of both commercial and research cottonseeds, and has developed both rapid and quantitative test kits for most commercial genetic traits in cotton, corn, soybeans and canola. The tests are used for plant breeding, quality assurance and for Identity Preservation in seed and grain distribution systems. SDI also has developed test kits for more than 40 different pesticides, and recently has commercialized tests for detecting mycotoxins in grains.

### syngenta

Syngenta is the world's leading agribusiness. The company ranks first in crop protection and third in the high-value commercial seeds market. Cotton products include Karate™ Z, Curacron™, Zephyr™, Caparol™, Gramoxone™ Extra, Fusion™, Cotoran™, Fusilade™ DX, Ridomil™ Golds, Ridomil PC, Cyclone™ and Starfire™. Pro forma sales in 2000 were approximately US \$6.9 billion. Syngenta employs more than 20,000 people in over 50 countries. The company is committed to sustainable agriculture through innovative Research and Technology. Formed in November 2000 by the merger of Novartis Agribusiness and Zeneca Agrochemicals, Syngenta is listed on the Swiss stock exchange and in London, New York and Stockholm. Further information is available at [www.syngenta.com](http://www.syngenta.com).



### The Seam

The Seam is an online business-to-business marketplace for cotton. As a neutral enterprise, The Seam provides users access to the largest community of buyers and sellers in the industry. The Seam's operating platform allows buyers and sellers to negotiate on the website and complete transactions online.



### T-Tape

T-Systems International is the world leader in the drip irrigation tape industry. T-TAPE® TSX® is made with an advanced manufacturing technology. T-TAPE® TSX®2 is the latest generation of T-TAPE and includes an improved turbulent flow track design that allows for a Coefficient of Manufacturing Variation of just 2% and a .45 Emitter Discharge Exponent.



A Crompton & Knowles Company

Uniroyal Chemical produces and markets quality crop protection products around the world for cotton producers. From planting to harvest, Uniroyal Chemical products help producers grow top quality cotton. Terraclor® and Terraclor Super X® fungicides, Comite® miticide, Dimilin® insect growth regulator, Harvade® cotton defoliant. [www.uniroyalchemical.com](http://www.uniroyalchemical.com)



### UAP

UNITED AGRICULTURE PRODUCTS

United Agri Products Inc. is recognized throughout the country as a leading crop protection distributor and manufacturer of cotton pesticides as well as crop inputs. Producers have a variety of products to choose from including insecticides, herbicides, adjuvants, seeds and seed treatments. In addition to these items, UAP offers the latest in crop technology, mPower™, acknowledge-based system that enhances productivity and profits.



### BORAX

U. S. Borax Inc. provides the cotton producer with three high quality boron products including, Solubor® for foliar application, Granubor® for bulk blended fertilizers and Fertibor® for fertilizer suspensions. Boron is an essential nutrient for all stages of cotton development, especially for pollination and fruiting.



### VALENT

Valent U.S.A. develops and markets crop protection and plant enhancement products. Select 2 EC herbicide, Cobra herbicide, Resource herbicide, Prism herbicide and Bolero herbicides; Orthene, Knack IGR, Danitol 2.4 EC Spray, Monitor 4 Spray insecticides. The addition of Valent BioSciences' products - DiPel Biological Insecticide, release PGR and Ryzup PGR - expands our offerings with low-risk products to help solve problems and create value for our customers.



### Cotton Farming

Vance Publishing Corporation is the nation's leading publisher of crop vertical and dealer publications. COTTON FARMING, THE GROWER, THE PEANUT GROWER, RICE FARMING, DEALER & APPLICATOR and CITRUS & VEGETABLE MAGAZINE provide profitable production and business management strategies to help the reader increase his bottom line. Vance also co-sponsors several trade shows and events in support of the agriculture industry.



### WAG VISION SYSTEM

WAG Corporation manufactures an array of differential GPS equipment for precision agriculture systems, [www.wagcorp.com/](http://www.wagcorp.com/).



### WILBUR-ELLIS

WILBUR-ELLIS is a privately held company headquartered in San Francisco, California. The company is a large domestic distributor and formulator of agricultural products and an international trading company with offices in 42 countries around the world. Seed Protectant Products Commercial Fungicides: NuFlow® ND, Nu-Grow® Captan 4000, Nu-Grow® Color Coat Red, Nu-Gro® Color Coat Red WSP, Nu-Gro® Dyes and Nu-Gro® Color Film. Commercial Insecticides: Lorsban® 30F, Hopper Box: Nu-Coat.



### XSinc.

Using proprietary software, XSag.com provides a secure trading site for manufacturers, distributors and dealers to sell chemicals, seeds, parts and equipment, animal health products and other agricultural products to farmers across the nation. XSag.com acts as a neutral market maker - bringing buyers and sellers together - and provides a seamless e-commerce fulfillment operation, including on-line freight quotes and escrow services. For more information, visit [www.xsag.com](http://www.xsag.com).

### zellweger uster

Zellweger Uster Inc. is the world's leading supplier of high-tech electronics for the textile industry, including instruments for fiber and yarn testing, on-line quality management and data systems. Recent innovations include the USTER® INTELLIGIN for on-line gin process control. This newest product helps bridge the gap between cotton producers and cotton spinning mills, facilitating more direct relationships between mills and gins. Zellweger Uster publishes USTER® STATISTICS, the world benchmark in yarn and fiber quality. As manufacturers of USTER® SPECTRUM, USTER® AFIS, USTER® QUANTUM CLEARER, USTER® FABRISCAN and USTER® TESTER 4, Zellweger Uster provides a high level of technical support and textile training to its customers worldwide.

These firms were members of The Cotton Foundation as of the end of the Foundation's 2000-2001 fiscal year, June 30, 2001. Some mergers were in the process and may have been accomplished after this booklet's production deadline.

# SPECIAL PROJECTS 2000-2001

Special projects are funded by Foundation members over and above their regular dues. Grant amounts listed for the special projects are per-year amounts. Some projects have been funded for a specific length of time while others are ongoing.

- Cotton Physiology Education Program
- Cotton Leadership Program
- Congressional Staff Education and Orientation Program
- Grown and Made in the USA Campaign
- Producer Information Exchange
- Policy Education Program
- Uniform Harvest Aid Performance Evaluation
- Cotton Foundation Reference Book Series
- Nematode Survey and Education Program
- Cotton Seedling Disease Survey and Education Program
- Journal of Cotton Science*
- Cotton Coalition
- Cotton Risk Management Network
- CCI Cotton Education Program
- Cotton USA Newsletter
- Technology Transfer through News Media
- Worker Protection Standard Education Program
- World of Cotton
- Internet Center at the Beltwide Cotton Conferences
- Beltwide Cotton Conferences Exhibitors' Center
- Funding for the Future
- High Cotton Award
- Cotton Millennium Scholarship

## Cotton Physiology Education Program (CPEP)

### BASF Corporation Grant: \$175,000

This program's mission is to discover and communicate more profitable methods of producing cotton. A key program element is *Cotton Physiology Today*, a newsletter that provides in-depth discussion of technical and production issues as the cotton growing season progresses. The newsletters are produced by the NCC in collaboration with veteran cotton physiologists. The newsletters contain proven strategies to help growers manage practices ranging from fertilization to harvest timing.



The *Cotton Physiology Today* newsletter shares leading physiologists' insights on topics ranging from variety selection to defoliation timing.

## Cotton Leadership Program

**DuPont Agricultural Products Grant: \$150,000**

Each year 10 U.S. cotton industry members are chosen to participate in this rigorous program, which provides training to accelerate their leadership development.

During six week-long sessions, class members are exposed to all U.S. Cotton Belt regions and to all industry sectors. They have policy and issues discussions with industry leaders; observe innovative production, processing and research; visit with key lawmakers and government and regulatory officials; and receive communications training.

Chosen by an industrywide selection committee, the class is comprised of a producer from each of the four major U.S. cotton regions and one member of the other six industry sectors. Class members' experience in this unique program enables them to better address challenges and opportunities in their operations and communities and take on additional responsibilities in state, regional and national interest organizations, including the National Cotton Council (NCC).



Members of the 2000-2001 Cotton Leadership Class are from left: Brian Owens, Memphis, TN; Mike Quinn, Raleigh, NC; Arnie Schlittenhart, Eloy, AZ; Ronnie Riddle, Stamford, TX; Mark Hite, Augusta, GA; Keith Turnipseed, Sumner, MS; Keffey Felty, Altus, OK; Lamar Spainhouer, Jonesboro, AR; Eddie Carmichael, Laurinburg, NC; and Dan Huntley, Gastonia, NC.

## Congressional Staff Education/Orientation Program

**Monsanto Grant: \$110,000**

This project is helping the NCC increase Congressional staffers' awareness of the U.S. cotton industry and the need to restore profitability to its seven sectors.

More than 100 key House, Senate and committee staffers have been given a firsthand look at industry operations – from seed to shirt. They have heard how the industry is trying to improve efficiencies, preserve the environment and build demand for this nation's No. 1 food and fiber crop. They also have seen production, merchandising and processing operations and toured public and private research and product development centers.



Congressional staffers visiting NCC headquarters (from left) front row: Tim Peters (Rep. Robin Hayes, R-NC); Adam Shepherd (Rep. Charlie Taylor, R-NC); Lanier Avant (Rep. Bennie Thompson, D-MS); Catherine Gabrysh (Rep. Bob Barr, R-GA); Kevin Berents (Rep. Bob Riley, R-AL); and John Riley and Pam Scott (House Ag Committee); second row: West Higginbotham (Sen. Zell Miller, D-GA); Robert Hollifield, (Sen. Blanche Lincoln, D-AR); Monty Carlton (Rep. Sanford Bishop, D-GA); and Anne Simmons and Andy Johnson (House Ag Committee); back row: Andy Johnson and Dave Ebersole (House Ag Committee); Steven Meeks (Rep. Saxby Chambliss, R-GA); Michael Galloway (Rep. Sonny Callahan, R-AL); and Charla Penn (Rep. Allen Boyd, D-FL).

## Grown and Made in the U.S.A. – It Matters

### Aventis CropScience Grant: \$100,000

Cotton textile imports now account for more than two-thirds of all U.S. retail cotton textile sales. This project is enhancing National Cotton Women's Committee members' communications with Americans, who are being reminded to shop for products containing U.S. cotton components.

NCWC members actively take their message to schools, including promotion of the three new \$1,500 "Grown and Made in the U.S.A. Grow Smart" scholarships, which are aimed at assisting college-bound children of U.S. cotton producers.



Pennee Murphree, National Cotton Women's Committee West Regional Director from Maricopa, AZ, models U.S.-made cotton fashions at the 2001 Beltwide Cotton Conferences.

## Producer Information Exchange

### FMC Corporation Grant: \$95,000

This project is providing innovative American cotton producers the opportunity to become more inventive and efficient by speeding their adoption of proven technology and farming methods.

Participants from one region of the Cotton Belt travel to another region to interact with their peers with the purpose of gaining information for improving their yields and fiber quality. On-farm visits and one-on-one communication enable participants to get new ideas and perspectives in such areas as land preparation, planting, fertilization, pest control, irrigation and harvesting.

## Policy Education Program

### Syngenta Grant: \$60,000

Policy development is integral to the NCC's mission, and this project already has helped more than 50 key NCC producer members better understand the organization's policy development and implementation process.

Up to four producers from each major Cotton Belt region are chosen each year by the Chairman of the NCC in consultation with NCC staff. Their orientation includes participation at the NCC's annual meeting and a look at the NCC's Washington, DC, operations.

## Uniform Harvest Aid Performance Evaluation

### Bayer, FMC, Griffin LLC, Uniroyal Grant: \$66,000

Standard defoliation and desiccation treatments and newer practices and/or products are being evaluated. The results will be used to develop effective, contemporary harvest aid recommendations that contribute to harvest efficiency. Results to date were included in *COTTON HARVEST MANAGEMENT: Use and Influence of Harvest Aids*.

## Cotton Foundation Reference Book Series

### Uniroyal Chemical Company Grant: \$50,000

*COTTON HARVEST MANAGEMENT: Use and Influence of Harvest Aids* is aimed at helping producers make the proper choice of harvest aid materials and the proper application methods in order to boost the crop's economic potential and maintain fiber quality.



*COTTON HARVEST MANAGEMENT: Use and Influence of Harvest Aids* is aimed at helping producers maximize their harvest.

The Cotton Defoliation Work Group published this comprehensive reference source for consultants and growers. Fifth in The Cotton Foundation Reference Book Series and the first-ever reference monograph dealing specifically with cotton harvest management, this book uniformly assesses harvest-aid performance under a wide range of cultural and environmental conditions found across the Cotton Belt.

James R. Supak, Ph.D., Texas A&M University, and Charles E. Snipes, Ph.D., Mississippi State University, served as editors.

## Cotton Nematode Research Project

### Aventis CropScience Grant: \$50,000

This project has led to greater awareness among producers, consultants, Extension personnel and others about nematode infestations and losses. The infestation/loss reporting and the sampling/handling processes have been improved. State nematologists are updating the nematode databases, which contain information from annual nematode population surveys by species and county. The information can be found at [www.cotton.org/cf/nematodes](http://www.cotton.org/cf/nematodes). Also being updated is the Cotton Nematodes: Your Hidden Enemies booklet.



The seedling disease and nematode program web sites were promoted at the 2001 Beltwide Cotton Conferences' Technical Exhibits.

The seedling disease and nematode web sites were promoted to producers and others at the 2001 Beltwide Cotton Conferences' Technical Exhibits.

## Cotton Seedling Disease Survey/Education Program

### Aventis CropScience Grant: \$50,000

Under this effort, cotton producers, consultants and others determine: 1) losses to the seedling disease complex, 2) the basic disease spectrum in each locale and 3) fungicide use and application method in each state. A standard protocol for research and trials has been adopted to ensure consistency across the Cotton Belt. This and other information and photos of the seedling disease complex are located at [www.cotton.org/cf/seedlings](http://www.cotton.org/cf/seedlings).

Plans call for seedling disease fact sheets to be generated and distributed to producers, consultants, Extension personnel and others.

## Journal of Cotton Science

### Bayer Grant: \$50,000

This grant is helping the NCC manage the *Journal of Cotton Science (JCS)* so that it becomes the premier, readily accessible and archived database of research findings for all cotton industry disciplines. *JCS* also is supported as a Foundation general project.

*JCS* articles are written for the scientific community, but contain an interpretive summary that explains the research's value in layman's terms. To date, *JCS* has received more than 200 manuscripts for peer review and published more than 100.

## Cotton Risk Management Network

### Syngenta Grant: \$50,000

NCC launched its Cotton Risk Management Network II, an Internet-based tool that provides NCC members with one-stop delivery of a complete range of market data, news and analytical tools necessary to compete in today's agricultural marketing environment. The upgraded, user-friendly CRMN II requires no software installation or daily downloads. All that is needed is access to the members only area of NCC's web site, [www.cotton.org](http://www.cotton.org).

CRMN II data are updated continuously and, with this new web delivery, forthcoming components such as farm management tools and market wizards can be introduced without inconvenience to users. Among CRMN II's features are: futures market activity for all contracts of cotton, corn, soybeans and wheat; trading contracts for the past five years; contract charting capability; and market news and activity.

## Cotton Coalition

### BASF Corporation Grant: \$40,000

The Cotton Coalition has provided more than 100 cotton producers with professional training in government affairs, media relations and presentation skills. The program's goal is to help these potential leaders effectively communicate to lawmakers, consumers, the media and others about constantly changing issues, policies and regulations that affect cotton industry profitability. Coalition members' names are placed on the NCC Action Request list, and they are frequently called on to communicate with legislators on behalf of the cotton industry.

Participants also gain a better understanding of the regional, national and international implications of complex economic, environmental and trade issues.



2001 Cotton Coalition producer members from left: David Bush, Schlater, MS; Dale Murden, Monte Alto, TX; Chris Frierson, Shreveport, LA; Dow Brantley, England, AR; Tom Isom, Casa Grande, AZ; Phil Bohl, Chattanooga, OK; Stoney Hargett, Alamo, TN; Ronnie Lee, Bronwood, GA; Bill Stone, Stratford, CA; and Doyle Schniers, San Angelo, TX.



## Cotton Council International (CCI) Educational Program

### Dow AgroSciences Grant: \$40,000

This grant helps CCI leverage funds from USDA through the Market Access Program and from other global partners.

This enables CCI to develop markets for U.S. cotton fiber and manufactured cotton products – a critical activity to improving the U.S. cotton industry’s competitiveness. Exports of U.S. cotton and cotton products help retain U.S. jobs on and off the farm, maintain the U.S. farm and textile sector’s profitability and improve the U.S. trade balance.



U.S. textile manufacturers received product exposure at company booths in the Japantex 2001 U.S. cotton pavilion.

## COTTON USA Newsletter

### Dow AgroSciences Grant: \$25,000

The quarterly COTTON USA Newsletter updates industry members on CCI’s COTTON USA global programs to promote U.S. cotton exports.

The four-color publication, distributed to more than 11,000 NCC members, includes highlights of programs carried out under CCI’s supply-push/demand-pull strategy. These include retail promotions, advertising campaigns and trade servicing activities.

## Worker Protection Standard Education Program

### Stoneville Pedigreed Seed Company Grant: \$30,000

Seasonal newsletters and information sheets containing timely information on Worker Protection Standard topics are distributed to more than 10,000 producers, consultants, Extension personnel and others. The newsletters cover topics ranging from product labels to recordkeeping.

This program also receives funding from the Foundation’s general fund.

## World of Cotton

### Syngenta Grant: \$15,000

Using a Cotton Belt map as a framework, a database is being developed for the NCC’s website, [www.cotton.org](http://www.cotton.org), that will assist NCC in its government relations efforts.

Some of the information to be included will be: Congressional contacts both in Washington and the district; NCC member businesses and NCC leadership; cotton acreage and production by state, county and Congressional district; and the value of both the crop and the industry to each state, county and district.

## Technology Transfer through News Media

### **Monsanto Grant: \$15,000**

A working Beltwide Cotton Conferences' newsroom facilitates the dissemination of written and electronic reports by the huge number of journalists covering this unique information event. Through their articles and broadcasts, the news media also play a large role in speeding the delivery of information on proven and emerging technology to those who cannot attend the conferences.



*News media covering the 2001 Beltwide Cotton Conferences ask questions of Production Conference speaker William B. Dunavant, Jr., a Memphis merchant.*

## Beltwide Cotton Conferences Internet Center

### **Syngenta Grant: \$7,750**

At the 2001 Beltwide Cotton Conferences' Internet Center, cotton industry members and others were guided by cotton producers to Internet sites these producers find useful. NCC staff also helped answer questions about the abundance of information that can be found on the World Wide Web.

This project also enabled the NCC to erect Internet kiosks for conferees to access the World Wide Web and check email.

## Funding For The Future

### **Vance Publications Grant: Varies**

More than \$17,000 has been raised to benefit Cotton Foundation general projects through this special auction at the Beltwide Cotton Conferences. Fifteen companies contributed items to the 2001 auction, which raised \$6,500 during the conferences.

## Beltwide Cotton Conferences Exhibitor's Center

### **Farm Progress Company Grant: \$6,000**

A room with refreshments and phones was provided to Cotton Foundation Technical Exhibitors at the 2001 Beltwide Cotton Conferences.

## Miscellaneous Projects

A number of other Foundation activities are considered special projects and supported by specific member firms. For example, in the Chemical Evaluation Project, USDA Agricultural Research Service scientists at the Southern Insect Management Lab in Stoneville, MS, are analyzing insecticides and application methods with the goal of helping producers lower their insect control costs.

Other special project efforts include the Technical Education Exhibits at the Beltwide Cotton Conferences, the Ginning Lab Fiber Analysis and the periodic development and distribution of various NCC-produced videotapes.

## AWARDS AND ENDOWMENTS

### Harry S. Baker Distinguished Service Award For Cotton

Jimmy Sanford, a Prattville, AL, cotton producer and dedicated industry leader, received the 2001 Harry S. Baker Distinguished Service Award for Cotton. He received the honor at the NCC's 2001 Annual Meeting.



Jimmy Sanford, right, a Prattville, AL, cotton producer, receives the 2001 Harry S. Baker Distinguished Service Award for Cotton from 2000 NCC President Robert McLendon.

Known for his ability to take charge of opportunities and produce results, Sanford served as the NCC's 44<sup>th</sup> president and as its Board chairman, treasurer, vice chairman of the Research and Education Committee and chairman of the Industry/Government Research Committee. Additionally, he served as president of The Cotton Foundation and has participated in several industry trade missions to Europe and the Far East for Cotton Council International and USDA's Foreign Agricultural Service.

The award, named for the late California industry leader and NCC President Harry S. Baker, is presented annually to a U.S. cotton industry member who has provided extraordinary service, leadership and dedication to the industry.

### Oscar Johnston Lifetime Achievement Award

The late Roger Malkin, a pioneering Mississippi agribusinessman who served as long-time chairman and CEO of Delta and Pine Land Co. received the 2001 Oscar Johnston Lifetime Achievement Award.

Malkin was an agribusiness pioneer who fused biotechnology and farming to help the company become the world's largest cotton breeder with business in the U.S. and 18 other countries. Under his 22-year watch, Delta and Pine Land breakthroughs included early maturing varieties, smooth leaf cotton, the first transgenic row crop seed and the first Roundup Ready cotton seed.

The New York native also was a force for advancing education and the quality of life in the Delta.

The annual award, established in 1997, is named for Oscar Johnston, whose vision, genius and tireless efforts were foremost in the organization and shaping of the NCC more than 60 years ago. The award is presented to an individual, now deceased, who served the cotton industry, through the NCC, over a significant period of his or her active business career. Recognizing more than office or position held, the award honors someone who, like Johnston, exerted a positive influence on the industry and who demonstrated character and integrity as well as perseverance and maturation during that service.



The late Roger Malkin, a pioneering Mississippi agribusinessman and long-time chairman and CEO of Delta and Pine Land Co., was the 2001 Oscar Johnston Lifetime Achievement Award recipient.

## High Cotton Awards

### Farm Press Publications Grant: \$15,000

Four cotton producers, real environmentalists striving to take care of their land while ensuring that their families can continue to enjoy a way of life, are the recipients of the 2001 Cotton Foundation/Farm Press publications High Cotton awards. The winners: Thomas Waller, Trenton, NC; David Wildy, Manila, AR; Doc and Danny Davis, Elk City, OK; and Richard "Dick" Newton, Stratford, CA.

The awards program recognizes producers who are making significant contributions to preserving and protecting the environment. Recipients are selected by a special judging panel comprised of representatives from industry, government and conservation agencies.



2000 High Cotton Award winners are from left: Thomas Waller, Trenton, NC; David Wildy, Manila, AR; Doc and Danny Davis, Elk City, OK; and Richard "Dick" Newton, Stratford, CA.

## C. Everette Salyer Cotton Research Fellowship

### Endowment: \$300,000

This fellowship was inaugurated to honor the late California producer-ginner and former Cotton Foundation president, C. Everette Salyer. Students at the doctorate or post-doctorate level are able to study and conduct research geared to the sciences of producing and marketing cotton.

Ernest Clawson is completing his Ph.D. program in agronomy at Texas A&M University. His research interests are in crop physiology, specifically the use of ultra-narrow-row (UNR) cotton technologies and the study of fertility and variety performance of UNR cotton.

Paul Ragsdale is pursuing a Ph.D. in cotton breeding at Texas A&M. His study areas involve classical breeding with quantitative genetic analyses to research heat tolerance in cotton and improving fiber quality in an elite line.

## Cottonseed Oil Clinic

**Endowment: \$60,000**

Proceeds from a Mississippi Valley Oilseed Processors Association endowment support the Annual Conference of the Oilseed Processing Clinic. The clinic is jointly sponsored with the USDA Agricultural Research Service's Southern Regional Research Center and the National Cottonseed Products Association.

## Robert and Lois Coker Trustees Chair in Molecular Genetics

**Endowment: \$1,000,000**

This endowment supplements support provided by Clemson University's Division of Agriculture and Natural Resources for molecular genetics research. The University's Robert and Lois Coker Endowed Chair of Plant Molecular Genetics is held by Dr. Rod A. Wing. Since Dr. Wing's arrival in 1996, the Clemson University



*Dr. Rod A. Wing, Coker chair and director, loads DNA samples for the Rice Genome Sequencing Project onto a DNA sequencer.*

Genomics Institute (CUGI), a state-of-the-art research facility focusing on structural and functional genomics of crop plants and their pests, was formed ([www.genome.clemson.edu](http://www.genome.clemson.edu)). CUGI, composed of five research centers, has raised more than \$22,000,000 in federal and industrial grant support and employs more than 70 scientists ranging from undergraduate students to postdoctoral fellows.

A major research thrust in Dr. Wing's lab is plant abscission. Abscission is an extremely important process whereby plants shed their organs such as fruit, flowers and leaves. Using a tomato model system, Wing's lab recently cloned the first plant gene that controls the development of fruit and flower abscission zones. The gene is being studied to see how it controls the development of abscission zones and to determine if it could be used in other crop plants such as cotton and soybean (e.g. a jointless cotton plant). Such an advance could help to improve methods in mechanical harvesting and lead to higher yields and quality. The long-term vision of CUGI is to be in a position to be competitive for a National Science Foundation Science and Technology Center designation.

## George A. Slater Memorial Scholarship Fund

A scholarship fund at Texas A&M University-Kingsville supports a student in a cotton-focused discipline. The fund was created from memorial scholarship funds commemorating the service of the late Foundation executive director, George Slater.

## Cotton Millennium Scholarship

### Meister Publications

Grant: \$2,500

Meghan Lynn Hedgepeth, a junior agriculture business management major at North Carolina State University, was awarded the second annual *Cotton Grower* Millennium Grant. The \$2,500 scholarship goes to a college student majoring in agriculture and planning a career in the cotton industry.



Meghan Lynn Hedgepeth, a North Carolina State University student, received the 2001 *Cotton Grower* Millennium Grant; presenting the award were Foundation President Talmage Cribfield, left, and *Cotton Grower* Publisher Frank Maxcy.

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For more information about  
The Cotton Foundation or this report,  
please contact Paul Dugger,  
The Cotton Foundation,  
P.O. Box 820284,  
Memphis, Tennessee 38112  
(901) 274-9030 fx (901) 725-0510.  
pdugger@cotton.org



P.O. Box 620284 • Memphis, Tennessee • 38182-0284

