National Poultry Technology Center Accomplishments & Impacts - 2012

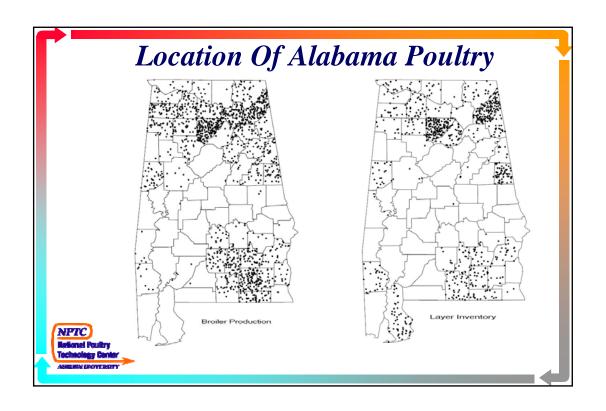


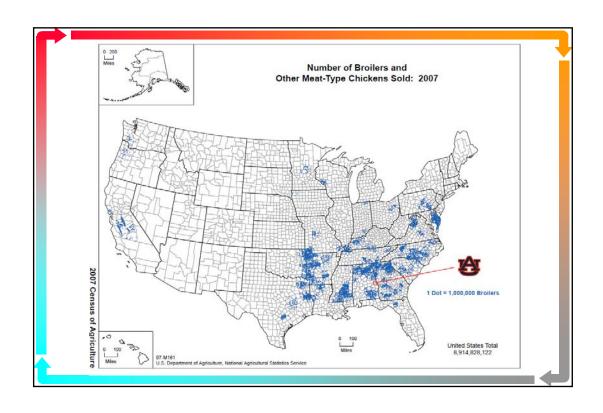
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NPTC Mission

Improve Bottom Line Profitability Of The Live Production Sector Of The AL Poultry Industry By Providing Timely Applied Research And Education Resulting In Increased Efficiencies In Housing, Equipment, Energy, And Environmental Control.







NPTC Background Information

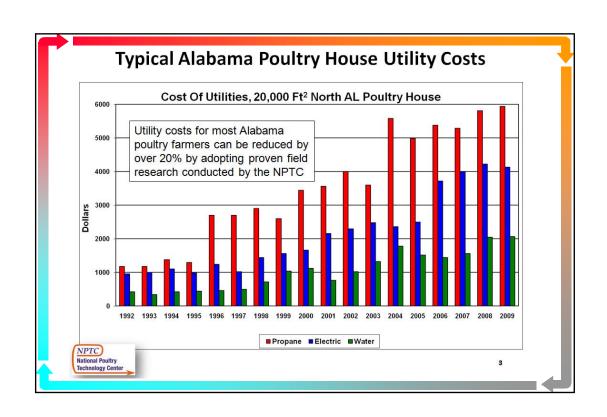
- We Are A Unique Unit In The USA
- The Center Is About 5 Years Old, But Engineering Programs For Poultry Have Been In Existence For 40 Years
- We Affect The Cash Flow And Profitability Of Every Grower In The US
- We Affect The Cash Flow And Profitability Of Every Integrator In The US
- Demand For Our Unbiased Engineering/Economic Analysis Is Nationwide

Estimates Of Service Delivered - Past Year

- Direct Input To Over 20 Major Integrators
- Installing And Monitoring 8 Major Applied Research Efforts
- Development And Dissemination Of 6 Newsletter Releases And Maintenance Of 2 Web Sites
- Presence At The International Poultry Expo
- Invited Presentations Throughout The Poultry Belt

Value Of Poultry To Alabama

- Poultry Generates \$10+ Billion Dollars & 80,000 Jobs For Alabama's Economy.
- Poultry Growers' Profitability Is Essential For This Industry To Survive. ~3,500 Alabama Growers
- Prices Of Inputs Have Exploded Over The Past 8
 Years Fuel, Electricity, Water, Feed Up From
 60%-300%
- Profitability Can Be Greatly Improved By Application & Adoption Of New Technologies



Economic Impact - Energy Conservation

- Gas Saved On Avg. Hse. @ \$2.00/Gal \$2,100
- Elec Saved On Avg. Hse. @ .11/Kwhr \$900
- Total Savings 40 X 500 House \$3,000
- 11,000 Houses = \$33,000,000 Annual Savings
- @ 30% Adoption +/- \$10,000,000/Year Value



Economic Impact – Bird Performance

- Better Environment Improves Feed Efficiency
- 1,000,000,000 5.6 Lb Birds Per Year Alabama
- Improved FC From 1.8550 To 1.8200
- Saves 98,000 Tons Of Feed /Year
- 98,000 Tons @ \$350/Ton = \$34,300,000
- @ 30% Adoption Rate +/- \$10,000,000 Economic Impact To The Industry's Live Sector



Economic Impact -Structural Improvement

- Insurance Underwriters Data For 2006 -2011
- Reduction In Damage Caused By Improvement In Structural Design Approaches \$48 Million For The 5 Year Period, Including Framing, Foundations, Bracing, Electrical, Etc.
- \$48 Million/5 Yrs = Avg \$9.6/ Million Per Year Contribution To Growers And The Industry



Total AL Economic Impact

- Combined Economic Input From Extension And Applied Research Efforts For The NPTC To The State Of Alabama Is Over \$30 Million.
- With An Economic Multiplier Of 3.937, That Equates To A Total Economic Impact Of \$120 Million/Year On Alabama's Economy!

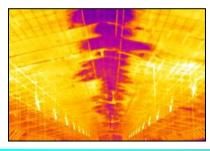


Areas Of Applied Research Having Short Term Impact

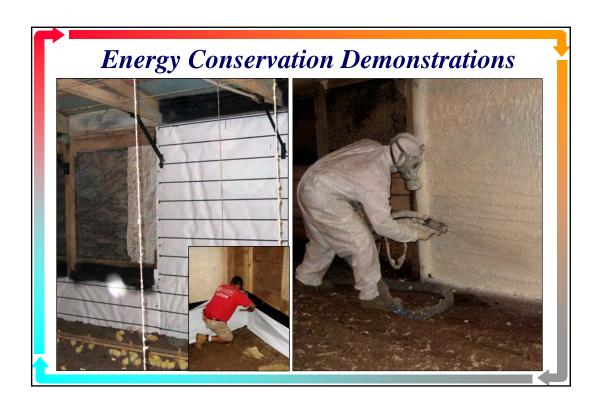
- Energy Efficiency In House Tightness &Insulation
- Energy Efficiency In Lighting
- Retrofitting Techniques To Extend Useful Life of Structures
- Construction Standards Adoption By Insurance Industry

Re-Blowing Attic Insulation











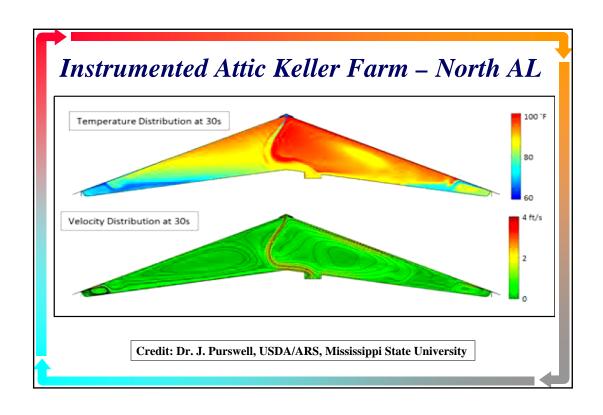


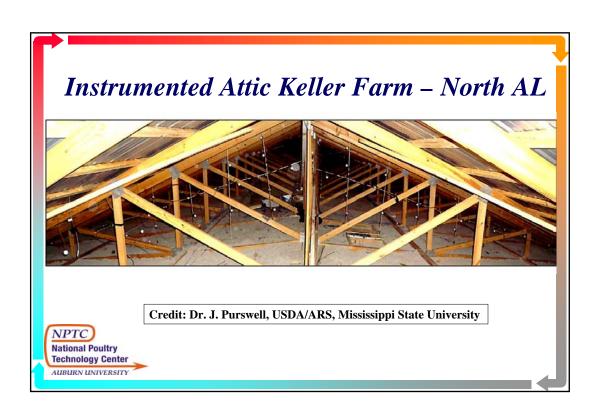


Areas Of Applied Research That Could Be "Game Changers"

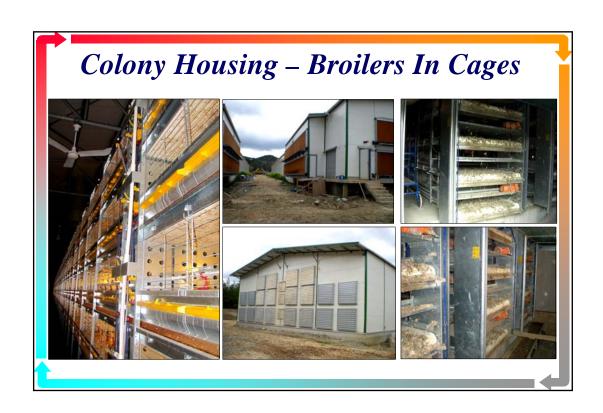
- Development Of Solar PV Energy Potential For Poultry Housing
- Development Of Designs & Controls To Extract Maximum Energy From Poultry House Attic Air
- Further Refinement Of Rainwater Harvesting Technology
- Development Of Colony Housing Designs For Broiler Production

Solar Power Generation Demonstration NPTC National Poultry Technology Center AUBIURN UNIVERSITY









Examples of Outreach Activities & Events











NPTC Action Plan Next 3 Years

- Stabilize Funding
- Develop A Further Feeling Of Shared Ownership-The NPTC Is A Winner For All Concerned
- Get Our Staff In The Right Seats On The Bus
- Focus On Transition To New Faculty And New Center Leadership