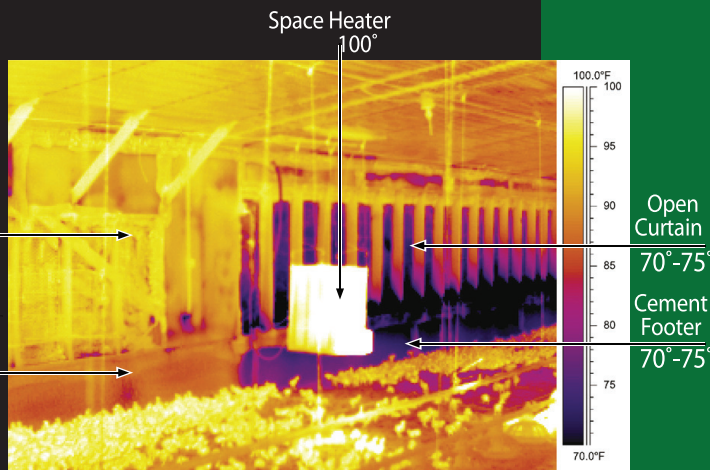


Poultry House Energy Retrofits

AG-TITE™



With energy prices escalating, many older poultry houses are structurally capable of growing birds, but are rapidly becoming “energy obsolete” because of higher propane costs. In October, 2005, scientist at Auburn University field tested and found that energy retrofitting could be an effective way to extend the life of older poultry houses. In a 12 house study, 6 houses were completely sealed with Ag-Tite Bio Sealant and treated with the Ivesco darkling beetle program. The other 6 houses were left untreated. After one full year of performance review, the results were impressive.



Digital Thermal Photo of a Poultry House with Outside Temperature 25°-30°.

Spray-on Polyurethane Retrofit Treatment for Curtain Sidewalls: Annual Per House Fuel, Performance, and Profitability, 2005/2006 AU Study.

| Fuel & Production | Untreated | Treated | Improvement |
|--------------------|-----------|---------|-------------|
| Livability (%) | 92.35 | 93.34 | .99 |
| Liveweight Pounds | 715,738 | 736,355 | 20,617 |
| Average Daily Gain | .0933 | .0961 | .0028 |
| Feed Conversion | 1.8653 | 1.8313 | .0340 |
| Propane (Gallons) | 5,300 | 3,450 | 1,850 |

Cost & Returns

| | | | |
|---------------------------|-----|--------|---------|
| Treatment Cost | \$0 | \$6000 | -\$6000 |
| Production Value (@ \$.5) | \$0 | \$1031 | \$1031 |
| Fuel Savings (@ \$1.30) | \$0 | \$2405 | \$2405 |
| Total Improvement | \$0 | \$3431 | \$3431 |
| Years To Pay Back | | | 1.74 |

Older 40 x 500 curtain-sided dropped-ceiling houses, retrofitted with tunnel ventilation, evaporative cooling system vent doors, and controller in the mid - 1990's

| | |
|--------------------------------|---------|
| Average Static Pressure Before | .10-.12 |
| Average Static Pressure After | .20-.24 |

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