



## Heat Effect on Broiler Production

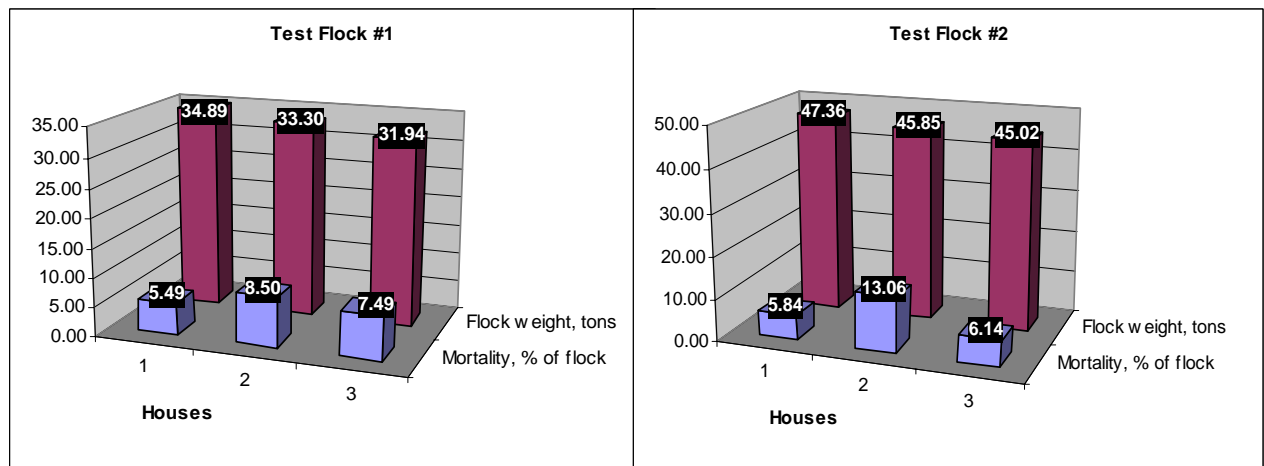
A Mexican national poultry grower conducted the following testes. These test reports show production increase and mortality decrease as it relates to roof temperature.

There were three different poultry houses, constructed identically. The difference between them was rood types. The roof types are:

- House 1: Asbestos panel roofing coated with Acu-Shield
- House 2: Pre-painted white metal roofing with polyurethane foam insulation
- House 3: Pre-painted white metal roofing

The average flock and size for these tests are:

- House 1: 18,730 – female
- House 2: 15,680 – male
- House 3: 18,740 – female



### CONCLUSION:

In both test flocks, house 1 (Acu-Shield) reported less mortality and increase flock weight. On average, production output was 2.6 tons more per flock than the white pre-painted roof and 1.5 tons more than the pre-painted roof with polyurethane insulation. The mortality rate due to heat related stress was reduced by as much as 55%.

It is estimated that the increased production will allow the farmer recoup his investment in coating the poultry roof within two years. After that period, the increase in production will be recognized as additional profit for the farmer.