

# Culbac<sup>®</sup> Animal Dry

*For heat stress*

## Helping dairy cows to cope with periods of high temperatures

In the summer months, heat stress is a particularly significant factor in the health and milk production of a dairy cow. **Heat stress** occurs when the environmental temperature matches, or exceeds, that of the cow's internal temperature. In turn this causes a decrease in feed intake, milk yield and more.

There are a few different ways heat stress can be dealt with on the dairy. Most dairymen use fans when facing the issue of **high environmental temperatures** in their barns. Cool drinking water is also essential when combating **high internal temperatures** of dairy cows. **Culbac<sup>®</sup>** is the next step in beating **heat stress**.

**Culbac<sup>®</sup>** helps restore and maintain healthy rumen and intestinal microflora in livestock. By promoting optimal rumen function, **Culbac<sup>®</sup>** increases the animal's ability to fight stress through maintaining feed intake.

### California Dairy Study

The effects of **Culbac<sup>®</sup>** were tested in a dairy in California. Two hundred high-producing Holstein cows were used for the trial. One hundred were administered thirty grams/head/day **Culbac<sup>®</sup>** while the remaining hundred were without. The trial specifically ran from August to November to see the effects of heat stress on milk production. During the three month duration temperatures averaged 78.5° F.



### Benefits observed in the Culbac<sup>®</sup>-treated dairy cows

- **Increased feed intake** in the range of 3-5% in the presence of heat stress.
- Improved persistence in **milk production** among cows normally expected to show a decline in the advanced stages of lactation.
- **Increase 3.5% fat corrected milk yield** by an overall average of 5.6 lbs per head daily. The increase was 9.5 lbs with cows in the earlier stages of lactation and 4.4 lbs with cows in the later stages of lactation.
- **Increase butterfat production** by .22 lbs and solids not fat by .36 lbs per head daily.
- **Reduced milk somatic cell count** by over 67% and had an especially marked effect on reducing counts in those cows having an unusually high count at the beginning of the trial.
- **Reduced** the number of cows requiring therapeutic medications **by 48%**.

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