Heat stress is largely underestimated, especially under temperate climates. Because it causes 10-35% decrease in milk production and important health troubles, heat stress can cost the farmer up to 422€/cow/year. By improving rumen function and reducing acidosis risks, rumen specific live yeast LEVUCELL® SC has been proven to be a natural answer to limit the toll of heat stress on dairy herds.

**Under heat stress, LEVUCELL® SC increases Feed efficiency by 7%**

Because heat stress jeopardizes the rumen function and balance, it is essential to optimize the rumen with natural and proven rumen modifier.

Under standard conditions of feeding and environment, LEVUCELL® SC has been demonstrated to increase significantly the feed efficiency of dairy cows. A trial conducted in Florida under severe heat stress conditions (Temperature Humidity Index=85) demonstrates that LEVUCELL® SC significantly increased feed efficiency by up to +7%, (or +120g ECM/kg DMI).

During heat stress, cows are also at higher risk of acidosis. Cows fed with LEVUCELL® SC also demonstrated higher rumen pH and lower rumen lactic acid levels, signs of reduced acidosis risks.

**Effect of supplementation of dairy cows diet with live yeast LEVUCELL® cows diet with live yeast LEVUCELL® SC on feed efficiency:**

![Graph showing feed efficiency improvement with LEVUCELL® SC](image)

Under heat stress, LEVUCELL® SC is proven to maximize producer’s income Over Feed Cost.

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**Heat stress is underestimated**

The cow’s comfort zone is between 5-20°C. Beyond this comfort zone, the cow is subject to heat stress.

University of Arizona recently re-evaluated the heat stress threshold for dairy cows and the temperature--humidity index (THI) scale, an indicator of heat stress. We know today that a THI of 68 is low enough to cause adverse effects on milk production, health and reproduction.

As an example, after only 4 hours at 22°C with 50% humidity (THI = 68), producers could lose 1.13 kg of milk/cow/day (-0.283 kg/h). In more stressful conditions, the milk loss can go up to -1.22 kg/h.

**Examples of problems caused by heat stress and their estimated costs/cow/year.**

- Reduced feed intake
- Impaired rumen function: fiber degr.
- Higher acidosis risks
- Increased oxidative stress
- Impaired immunity: mastitis, disease risks and increased mortality (2.3€/cow/year)
- Decreased fertility (12€/cow/year)
- Decreased milk production (403€/cow/year)

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**Live:** LEVUCELL® SC contains a natural and selected live yeast (Saccharomyces cerevisiae), metabolically active to enhance rumen functions.

**Rumen specific:** LEVUCELL® SC has been selected among thousands of strains for its capacity to enhance digestibility and rumen function. Its efficacy has been validated by leading Research centers (over 60 international scientific publications).

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