



Beef
cattle



Dairy cows
and heifers



Sheep



Goats

Thermo[®] Plus

Observe the thermal comfort of animals naturally



HEALTH
WELFARE



ZOOTECHNICAL
PERFORMANCE



PROFITABILITY



Red chilli (Capsicum) regulates body temperature and stimulates salivation and ingestion.

Why use Thermo[®] Plus?

A recent study in the Netherlands has estimated that **three weeks' exposure to heat stress per annum would cost approximately €270 per cow** (Feenstra, 2017). Managing heat stress is therefore a real economic issue for the ruminant sector.

Heat stress impacts not only the welfare of livestock but also affects feed consumption and digestive efficiency. Growth performance, livestock health and milk and meat quality are impaired.

How it works

To support ruminants during hot and humid season, the CCPA Group has developed Thermo[®] Plus.

Thermo[®] Plus acts on the consequences of heat stress. It strengthens the natural systems involved in evacuating heat, offsets electrolyte and stimulates ingestion.

Thermo[®] Plus thus ensures comfort and welfare animal and therefore optimises milk production and growth performance.



Green tea (Camellia sinensis) neutralises free radicals, especially the ones produced by heat stress.

Supporting evidence

Proven efficacy in dairy cows

Improvement in dairy production (litres of milk)

+1.4 litres of milk

Average over the range of trials

	Hungary	Czech	Turkey	Morocco	France	Mexico	Brazil	Vietnam
Trials	1	1	2	1	2	1	2	1
Animals	632	401	116	56	100	44	386	166
Control	29.46	30.8	29.55	35	29.02	27	24.05	24.2
Thermo®Plus	31.73	32.8	31	36	29.72	28.73	25.2	25
Gain	2.27	2	1.5	1	0.7	1.73	1.15	0.8

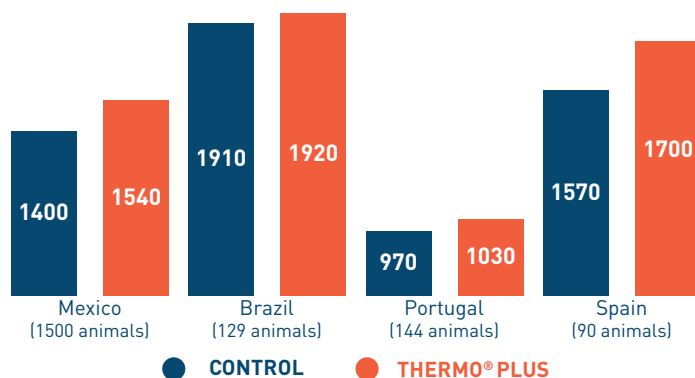
Field Test Summary 2013-2020

Proven efficacy in beef cattle

Improvement in growth (ADG in g/d)

+85 g/d ADG and -0.6 FCR

Average over the range of trials



Field Trials Summary 2013-2020



Did you know?

> As of 25°C and 60% humidity, cows begin to suffer from significant stress that manifests itself in:

- A drop in dairy production and less of fat: 2 to 4 L of milk per cow and 2 to 4 g/L less fat content
- A fall in ingestion: -5 to -30%
- Signs of acidosis, lameness, mastitis
- A drop in fertility...

> The THI (Temperature Humidity Index) represents an indicator of the temperature and humidity levels. Above 71, performances decrease.



With ThermoTool™,
manage and anticipate heat stress



This **free application** developed by CCPA identifies **the risk level of heat stress** and gives you access to **expert advice adapted** to the level of stress detected

Composition and instructions



ACTIVE INGREDIENTS

- Spices (including chilli and fenugreek)
- Electrolytes (Na⁺, K⁺)
- Green tea
- Buffer (bicarbonate)



USAGE RECOMMENDATIONS

- Feed incorporation
- Or use directly in the TMR
- Start 15 days before the assumed periods of high temperatures, then continuously during hot periods