Heat Stress factors:
- Actual temperature and humidity
- Cow factors (size, milk production, etc.)
- Degree of cooling that occurs at night
- Length of the heat stress period
- Ventilation and air flow
- Water availability
- Hair coat depth

**Heat Stress factors**

### Heat Stress factors
- **Actual temperature and humidity**
- **Cow factors** (size, milk production, etc.)
- **Degree of cooling that occurs at night**
- **Length of the heat stress period**
- **Ventilation and air flow**
- **Water availability**
- **Hair coat depth**

### Heat Stress management tips:
- **Provide shade**
- **Clean water tanks**
- **Feed during cooler hours**
- **Watch for inconsistent manure**
- **Ensure access to feed**
- **Use sprinklers and fans**
- **Reduce time in holding pens**
- **Don’t lock-up during midday**

### Combat your herd’s heat stress with YEA-SACC®

Learn more at [Alltech.com/on-farm-support](http://Alltech.com/on-farm-support)

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### Temperature – Humidity Index Chart

**Heat Stress levels**
- **No Stress**
- **Mild Stress**
- **Heat Stress**
- **Severe Stress**
- **Fatal Conditions**

**Temperature – Humidity Index Chart**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°F</td>
<td>0%</td>
</tr>
<tr>
<td>91°F</td>
<td>10%</td>
</tr>
<tr>
<td>92°F</td>
<td>20%</td>
</tr>
<tr>
<td>93°F</td>
<td>30%</td>
</tr>
<tr>
<td>94°F</td>
<td>40%</td>
</tr>
<tr>
<td>95°F</td>
<td>50%</td>
</tr>
<tr>
<td>96°F</td>
<td>60%</td>
</tr>
<tr>
<td>97°F</td>
<td>70%</td>
</tr>
<tr>
<td>98°F</td>
<td>80%</td>
</tr>
<tr>
<td>99°F</td>
<td>90%</td>
</tr>
</tbody>
</table>

**Notes**:
- **Stress threshold respiration rate exceeds 60 BPM. Milk yield losses begin. Repro losses detectable. Rectal temperature exceeds 101.3 °F (38.5 °C).**
- **Mild-moderate stress respiration rate exceeds 75 BPM. Rectal temperature exceeds 102.2 °F (38 °C).**
- **Moderate-severe stress respiration rate exceeds 85 BPM. Rectal temperature exceeds 104 °F (40 °C).**
- **Severe stress respiration exceeds 120-140 BPM. Rectal temperature exceeds 106 °F (41 °C).**