

# Dairy Heat Stress Risk Snapshot

(Please complete one per location)

Farm: \_\_\_\_\_

Managers Cell: \_\_\_\_\_

FAF Consultant: \_\_\_\_\_

Dairy Address: \_\_\_\_\_

Servicing Joint Venture: \_\_\_\_\_

Email Address: \_\_\_\_\_

Housing for (circle all that apply)

Lactating Cows Dry Cows Repl Heifers Baby Calves

Date: \_\_\_\_\_



Housing type (circle all that apply)

Free stall Bedded pack Compost Monoslope A-Frame Slat

Ventilation Type (circle all that apply)

Open Lot Natural Tunnel Power/Positive Pressure

## Areas of Concern (AOC's)

<b>I. Monitoring Systems – Ability to Measure Change</b>				
a.	Is there a thermometer, humidity meter or other means to measure THI in the facility?	Yes	No	
b.	Are rectal temperatures, respiration rates, or skin temperatures measured in any way?	Yes	No	
c.	Is there a system to measure day-to-day variation in dry matter intake in the herd?	Yes	No	
d.	Is there a system to monitor day-to-day changes in bulk tank milk yield?	Yes	No	
e.	Is there a system to monitor water intake on a daily basis?	Yes	No	
<b>Monitoring Systems Total</b>		<b>Yes</b> _____	<b>No</b> _____	
				
<b>II. Drinking Water – Quality – Quantity – Access - Cleanliness</b>				
a.	Have you conducted a drinking water test in the last 2 years?	Yes	No	
b.	Do you have 10+ gal/minute flow rate at drinking waterers?	Yes	No	
c.	Do you have at least 1.5"/hd water space for dairy cows, 0.5" calves & heifers ?	Yes	No	
d.	Are water troughs checked daily for fill and contamination?	Yes	No	
e.	Are water troughs cleaned at least once per week?	Yes	No	
<b>Drinking Water Total</b>		<b>Yes</b> _____	<b>No</b> _____	
				
<b>III. Shade &amp; Comfort – Access – Quantity - Functionality</b>				
a.	Do livestock have access to shade during daylight hours?	Yes	No	
b.	Do 100% of the livestock fit in shaded areas at any given time?	Yes	No	
c.	Are cattle bedded at least twice weekly?	Yes	No	N/A (Slats)
d.	Do you have a fly control program?	Yes	No	
e.	Are surfaces groomed to provide dry, easily accessed resting areas?	Yes	No	
f.	Are freestalls stocked < 110% of stalls? Confinement barns >40'/hd?			
	Bedded Packs >80'/hd? Open lots>300'/hd	Yes	No	
<b>Shade &amp; Comfort Total</b>		<b>Yes</b> _____	<b>No</b> _____	
				
<b>IV. Air – Quality - Quantity</b>				
a.	Natural Ventilation – Do A-frame buildings have an open ridge-vent?	Yes	No	N/A
	Sidewall - Are sidewalls completely open with operable curtains?	Yes	No	N/A
b.	Are fans or mechanical air equipment used to improve air movement?	Yes	No	
c.	Are Thermostats/Humidistats set to start fans at 68°F?	Yes	No	N/A
d.	Are circulating fans over the resting area?	Yes	No	
e.	Is wind-speed over the resting /loafing areas 5+ mph?	Yes	No	
<b>Air &amp; Wind Total</b>		<b>Yes</b> _____	<b>No</b> _____	
				
<b>V. Evaporative Cooling – Location - Effectiveness</b>				
a.	Are Sprinklers or Soakers used to enhance evaporative cooling?	Yes	No	
b.	Are sprinklers or soakers used in combination with fans or mechanical air movement?	Yes	No	
c.	Are High Pressure Misters or "Cool Cells" in use and operable in confinement			
d.	Power or Positive Pressure Ventilated Barns	Yes	No	N/A
e.	Are water and timing systems for evaporative cooling maintained regularly?	Yes	No	
	Location of Sprinklers or Soakers:	Yes	No	N/A
	Feed Lanes	Yes	No	N/A
	Holding Pens	Yes	No	N/A
	Parlor Exit	Yes	No	N/A
	Loafing/Resting Areas	Yes	No	N/A
<b>Evaporative Cooling Total</b>		<b>Yes</b> _____	<b>No</b> _____	
				
<b>VI. Feed &amp; Nutrition – Quality – Intake - Balance - Hydration</b>				
a.	Do you have your rations balanced by a professional nutritionist?	Yes	No	
b.	Do you alter feeding schedule and/or amounts during summer months?	Yes	No	
c.	Are wet feeds managed or preservatives used to ensure 24 hour bunk stability?	Yes	No	
d.	Does your nutritionist use DCAD buffering in lactation rations?	Yes	No	
e.	Do you feed a live direct-fed microbial, yeast culture or Rumensin?	Yes	No	
f.	Do you currently use Hydro-Lac® during periods of heat stress?	Yes	No	
g.	Do you currently feed a daily maintenance dose of Hydro-Lac® during summer?	Yes	No	
<b>Feed &amp; Nutrition Totals</b>		<b>Yes</b> _____	<b>No</b> _____	
				

Other Areas of Concern noted Specific to Operation

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Individual results from Heat Abatement survey will be sent out via preferred method of communication designated on back side

Assessment results will be rated based on: AOC, if Hydro-Lac® is currently fed during maintenance and the follow score:

Assessment: 1 or less "No" Answers per AOC = Succeeds in Area – Fill or Circle Star

2 or more "No" Answers per AOC = Opportunity for Improvement

Special Acknowledgement:

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Thank You to Dr. Lance Baumgard, Iowa State University, for his assistance in developing the FAF Heat Stress Risk Snapshot

# Take Home Messages for Successful Heat Stress Management

- I. **Monitoring Systems:** If you can't measure it, you can't manage it.
- II. **Drinking Water:** Cattle should never have to wait for access to ample volumes of clean, high quality water.
- III. **Shade & Comfort:** Solar radiation and discomfort account for 30% or more of heat stress production losses.
- IV. **Air:** Wind speed of 5 mph or greater improves fly control and enhances evaporative cooling.
- V. **Evaporative Cooling:** Sprinklers or Soakers provide more effective cattle cooling than fans alone.  
The combination of sprinklers/soakers and fans/air above 5 mph is the most effective way to cool cattle.
- VI. **Feed & Nutrition:** Strategic balance and delivery of quality feedstuffs and hydration therapy allow cattle to minimize internal heat load and maximize glucose capture for superior performance under stress.

Notification Preference:

I would prefer to be notified via:  
(Can pick one or all of those listed below)

Email

Hydro-Lac App  
(iPhone and Droid)

Text Message  
(Standard message rates will apply)

Yes, please create an account for me at the Hydro-Lac® website. I agree to the Terms of Use and understand I can terminate my agreement by terminating my account at the Hydro-Lac website. I authorize Form-A-Feed to use the information on this paper to help start my account. I agree to review the information in the website to make sure that it is correct. I will not hold Form-A-Feed or its related companies liable for any damages stemming from errors in information input.

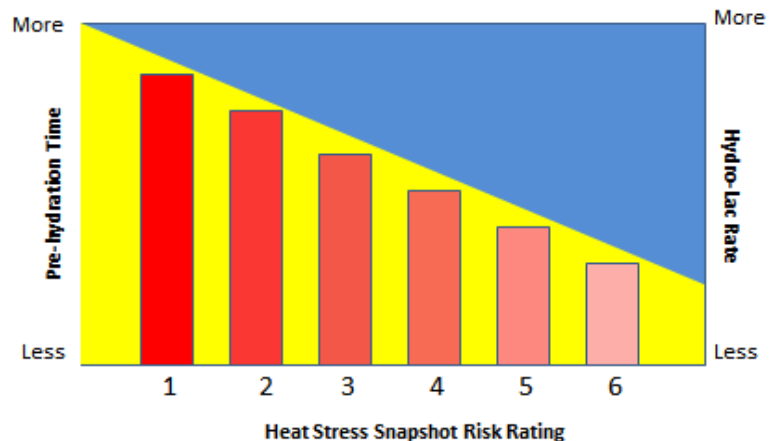
Signature: \_\_\_\_\_

Email\*: \_\_\_\_\_

Date: \_\_\_\_\_

\*Email will be used to create account and act as password until changed by user.

## Recommending Hydro-Lac® as part of a Comprehensive Heat Stress Management Plan



Recommended Hydro-lac® usage rate ranges from 4 to 16 ounces per head per day prior to and during heat stress event, depending on severity and duration of heat event.

Pre-hydration feeding time ranges from 2 to 4 days prior to the anticipated onset of the stressful event.

- Request for additional heat abatement consultation:

Yes



710 Bowman Street Stewart, MN 55385

800.422.3649

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