



HEAT ABATEMENT ASSESSMENT

Farm Name: _____

Date: _____ Time: _____

Outside Temperature: _____ Outside Humidity: _____ Outside THI: _____

BARN

Barn Type: _____ Pen/Group #: _____ 4 row or 6 row: _____

Fan speed at bunk: _____ Sprinklers over bunk? _____

Fans over each row? _____ # stalls between fans: _____

Condition of fans: _____

Fan speed at 1st stall: _____ Fan speed at last stall in section: _____

Temperature in barn: _____ Humidity: _____ THI: _____

of water troughs in group: _____ Length of each waterer: _____ Linear Inch/Cow: _____

Sprinklers on for how long? _____ How often? _____

Dry Cows: Far-off cows: Barn _____ Fans _____ Sprinklers _____ / Pasture _____ Shade _____ Soakers _____

Close-up cows: Barn _____ Fans _____ Sprinklers _____ / Pasture _____ Shade _____ Soakers _____

HOLDING PEN

Stall in Parlor: _____ # of fans in HP: _____ Fan speed: _____

Condition of fans: _____

Sprinklers in HP? _____ Fans in Parlor? _____ Parlor Fan Speed: _____

Water troughs in return alleys? _____ Lengths of water troughs: _____

Temperature in HP: _____ Humidity: _____ THI: _____

Other Comments: _____



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Recommendations:

Fan speed at bunk: 4-6 mph

Fan speed at 1st stall: 6 mph

Fan speed at last stall: 4 mph

Fan height: minimum of 8 feet, as low as possible but out of reach

Spacing of fans: 36" fan- 20'-24' apart, 48" fan- 24'-36' apart

Water trough length: 3' per 10 cows (or 4" per cow), water within 80' (20 freestalls) of any cow in barn

Sprinkler/soaker wetting cycles: 1-1.5 min on (depending on nozzle flow rate), every 15 min to 5 min (as the ambient temperature increases)

Soakers should come on automatically at 68°F, spaced 7.5'-8' apart

Fan speed in holding pen: 5 mph

of fans in holding pen: 1 fan per 10 cows

Fan speed in milking parlor: 3.5-4mph

Water troughs in return alleys as cows will consume 10% of daily requirement immediately after milking.

Parlor water trough length: 2 linear ft for each cow exiting at a time (double 12 parlor would require 24 linear feet of water trough)

Order of Importance for Cooling Cows:

Holding Pen

Far-off & Close-up cows

Maternity Pens

Fresh Groups (cows & heifers)

High Production Lactating Groups

Milking Parlor

Milking Parlor exit lanes

Hospital pen

Low Production Lactating Groups

Work areas