

# Healthy Animals and Healthy People: BRM at Livestock Shows

Brian Vander Ley, DVM, PhD, DACVPM

# Goal

- Healthy animals and people arriving at the show
- Healthy animals and people leaving the show



# Health Threats

- Threats to livestock
  - Infectious disease
  - Heat stress
  - Physical injuries



# Infectious Disease Risk Management

## Routes of Transmission

- Direct Contact
- Fomites
- Aerosol-Large and Small Droplet
- Oral
- Vectors



# Disease Prevention

## Develop a Plan

- Educate Exhibitors
  - Animal Health and Biosecurity
  - Human Health Implications
- Identify Likely ROT and interrupt
  - Waste Management
  - Vector Control
- Establish Entry Requirements
- Consider Retaining a Veterinarian for the Show



# Disease Prevention/Management

## Executing the Plan

- Check Livestock In
- Conduct Scheduled Inspections to Monitor Health (Use Veterinarian If Possible)
- Develop an Isolation Plan for Individual Sick Animals
- Develop a Quarantine Plan for the Show



# Heat Stress



<https://www.drovers.com/article/heat-stress-and-beef-cattle-0>

Temperature		% Relative Humidity																		
°F	°C	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
72	22.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
73	23.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
74	23.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
75	24.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
76	24.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
77	25.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
78	25.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
79	26.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
80	26.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
81	27.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
82	28.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
83	28.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
84	29.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
85	29.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
86	30.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
87	30.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
88	31.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
89	31.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
90	32.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
91	33.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
92	33.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
93	34.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
94	34.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
95	35.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
96	35.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
97	36.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
98	36.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
99	37.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
100	38.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
101	38.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
102	39.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
103	39.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
104	40.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
105	40.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
106	41.0	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
107	41.5	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68

<http://lallemandanimalnutrition.com/en/asia/whats-new/heat-stress-is-a-reality-in-europe/>



# Heat Stress Prevention

- NEVER allow water deprivation
  - Weigh backs at show time to prevent “shrinking”
- Move events to cooler times of the day



## Contact Information

- Brian Vander Ley
- [bvanderley2@unl.edu](mailto:bvanderley2@unl.edu)
- 515-450-8620

