



Temperature - Humidity Index Table

Transporting Hogs: Livestock Weather Safety Index – Relative Humidity Levels (%)¹

| Temperature | | Relative Humidity (%) | | | | | | | | | | | | | | | | | | | | |
|-------------|------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|--|
| °F | °C | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | |
| 75 | 23.9 | | | | | | | | | | | | | | | | | | | | | |
| 76 | 24.4 | | | | | | | | | | | | | | | | | | | | | |
| 77 | 25.0 | | | | | | | | | | | | | | | | | | | | | |
| 78 | 25.6 | | | | | | | | | | | | | | | | | | | | | |
| 79 | 26.1 | | | | | | | | | | | | | | | | | | | | | |
| 80 | 26.7 | | | | | | | | | | | | | | | | | | | | | |
| 81 | 27.2 | | | | | | | | | | | | | | | | | | | | | |
| 82 | 27.8 | | | | | | | | | | | | | | | | | | | | | |
| 83 | 28.3 | | | | | | | | | | | | | | | | | | | | | |
| 84 | 28.9 | | | | | | | | | | | | | | | | | | | | | |
| 85 | 29.4 | | | | | | | | | | | | | | | | | | | | | |
| 86 | 30.0 | | | | | | | | | | | | | | | | | | | | | |
| 87 | 30.6 | | | | | | | | | | | | | | | | | | | | | |
| 88 | 31.1 | | | | | | | | | | | | | | | | | | | | | |
| 89 | 31.7 | | | | | | | | | | | | | | | | | | | | | |
| 90 | 32.2 | | | | | | | | | | | | | | | | | | | | | |
| 91 | 32.8 | | | | | | | | | | | | | | | | | | | | | |
| 92 | 33.3 | | | | | | | | | | | | | | | | | | | | | |
| 93 | 33.9 | | | | | | | | | | | | | | | | | | | | | |
| 94 | 34.4 | | | | | | | | | | | | | | | | | | | | | |
| 95 | 35.0 | | | | | | | | | | | | | | | | | | | | | |
| 96 | 35.6 | | | | | | | | | | | | | | | | | | | | | |
| 97 | 36.1 | | | | | | | | | | | | | | | | | | | | | |
| 98 | 36.7 | | | | | | | | | | | | | | | | | | | | | |
| 99 | 37.2 | | | | | | | | | | | | | | | | | | | | | |
| 100 | 37.8 | | | | | | | | | | | | | | | | | | | | | |

How to Read This Chart

1. Check the weather forecast for temperature and humidity.
2. Locate the expected temperature in the column on the left.
3. Extend that temperature in a straight line across the chart until it intersects with a line from the expected relative humidity.
4. If temperatures are above 37.8°C (100°F), the situation is DANGER. Schedule loading to avoid the hottest hours and avoid traveling during congested traffic conditions. Cooling pigs prior to loading (e.g. misting, spraying) is recommended.
5. If the temperature is above 37.8°C (100°F) and the relative humidity is above 30%, the situation is EMERGENCY, and shipments should be postponed until the weather moderates.

¹ Source: Ontario Pork. Adapted from Dr. Frank Wiersma (1990) Department of Agricultural Engineering, University of Arizona, Tucson