



LIVECORP
THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION



MEAT & LIVESTOCK AUSTRALIA

The global spread of livestock diseases

- their impact on trade, market access and food security

Mark Schipp

Animal diseases matter

- Why do we keep livestock?

- ✓ Subsistence farming
- ✓ Commercial agriculture
- ✓ Draught power
- ✓ Meat, milk and fibre
- ✓ Hides and skins
- ✓ Savings

- In the event of animal disease

- ✗ Animal health and productivity
- ✗ Breeding capability
- ✗ Welfare
- ✗ Loss of livelihood
- ✗ Loss of trade and market access
- ✗ Poverty and food insecurity
- ✗ Human disease
- ✗ Environmental impacts

Rinderpest changed history

- Introduced from Asia to Europe and from Europe to Africa
- 95% of cattle were lost in Ethiopia bringing famine and disease, almost a third of the human population perished
- First veterinary school in France 1761
- Establishment of WOAHO/OIE in 1924
- Global Rinderpest Eradication Program established 1994
- Eradication achieved in 2011



Transboundary animal diseases

- FAO definition: “Those diseases with an essential impact on the economy, trade and/or food security of a group of countries, which can be easily spread to other countries, reaching epidemic proportions and that require control and eradication cooperation between different nations.”
- TADs are highly contagious or transmissible, epidemic diseases, with the potential to spread rapidly across the globe and the potential to cause substantial socioeconomic and public health consequences.

Pathways of disease

- Live animal movement
 - Informal/illegal
 - Formal/legal
 - Wildlife migration
- Contaminated products
 - Food waste
 - Animal feed
 - Biological products
- Vectors and environment
 - Insect vectors
 - Wind currents
 - Contaminated soil/water
- Other sources
 - Laboratory accidents
 - Sabotage/warfare

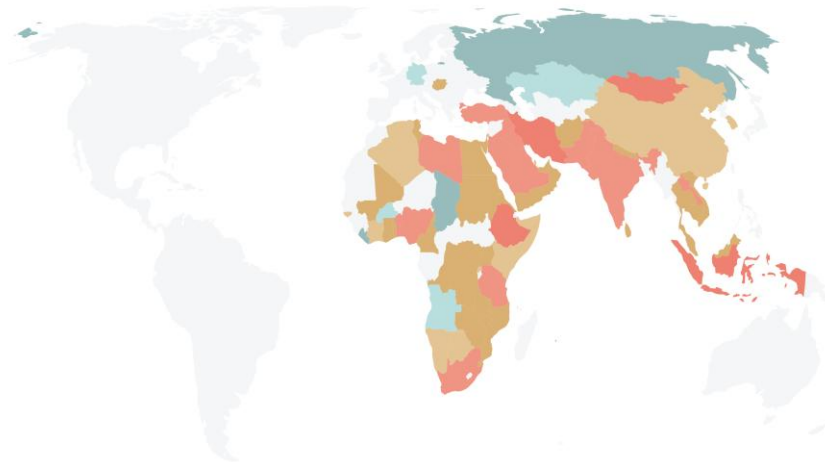
Major disease threats today: FMD

- Asia, Africa and Middle East
- (South America)
- Indonesia in May 2022
- Trade disease

NB: 5-year distribution of disease cases sourced from animal-disease-insights.com data sourced from WOAAH based on early warning notifications and biannual reports submitted by national veterinary services

Distribution of Disease Cases

Hover over a country to view detailed insights about the outbreak in the past 5 years.



Disease Outbreak Cases
Three-color, log-scaled bins: teal (low), orange (mid), coral (high)



Animal
Disease
Insights



LIVECORP
THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION

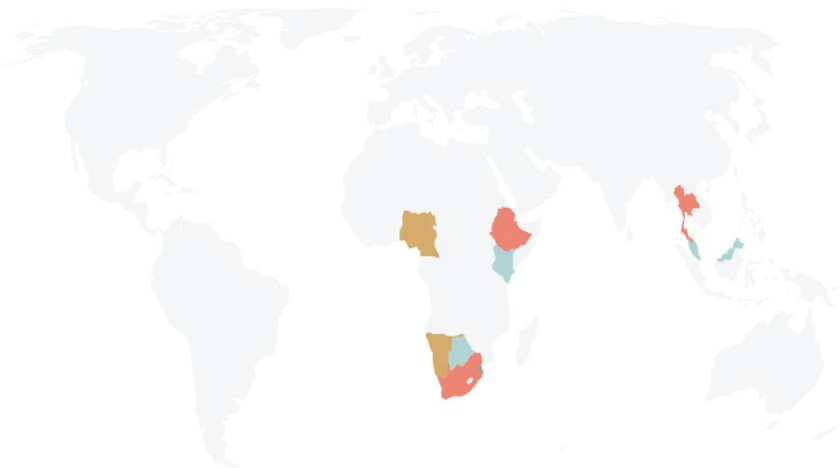
mla
MEAT & LIVESTOCK AUSTRALIA

Major disease threats today: AHS

- Vector (midge) borne
- Introduced to Thailand through zebra import

Distribution of Disease Cases

Hover over a country to view detailed insights about the outbreak in the past 5 years.



NB: 5-year distribution of disease cases sourced from animaldiseaseinsights.com data sourced from WOAAH based on early warning notifications and biannual reports submitted by national veterinary services

Disease Outbreak Cases
Three-color, log-scaled bins: teal (low), orange (mid), coral (high)

1-7 8-57 58-442 443+



THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION

meat & livestock australia

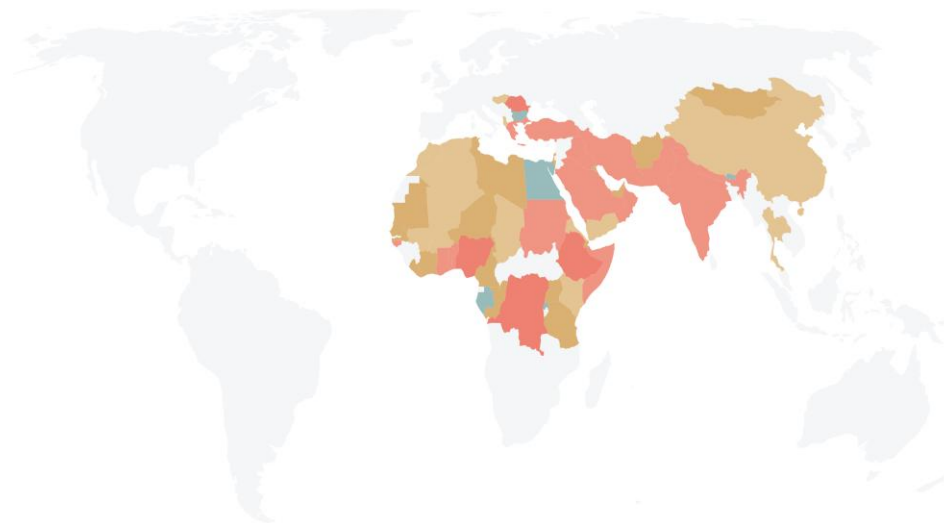
Major disease threats today: PPR

- Sheep and goats
- Similar to rinderpest

NB: 5-year distribution of disease cases sourced from animaldiseaseinsights.com data sourced from WOAAH based on early warning notifications and biannual reports submitted by national veterinary services

Distribution of Disease Cases

Hover over a country to view detailed insights about the outbreak in the past 5 years.



Disease Outbreak Cases

Three-color, log-scaled bins: teal (low), orange (mid), coral (high)



LIVECORP
THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION

mla
MEAT & LIVESTOCK AUSTRALIA

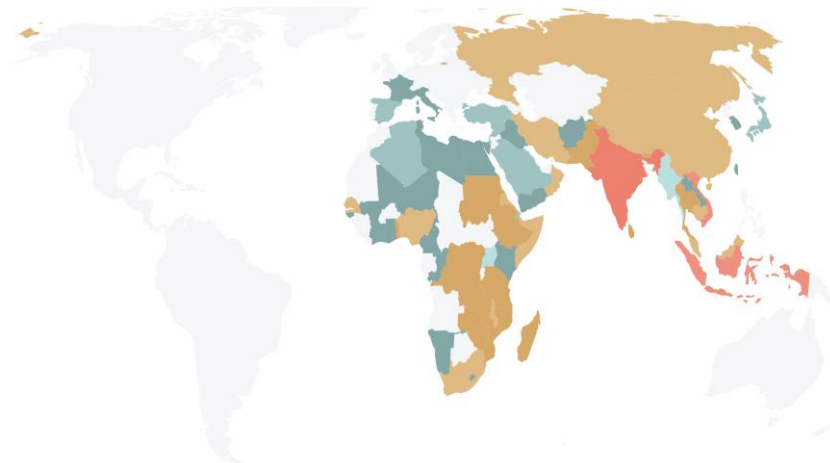
Major disease threats today: LSD

- Current outbreak in Europe
- Indonesia in 2022
- Stable flies and mosquito vectors
- Spread between countries by animal movement and vector movement

NB: 5-year distribution of disease cases sourced from animaldiseaseinsights.com data sourced from WOA based on early warning notifications and biannual reports submitted by national veterinary services

Distribution of Disease Cases

Hover over a country to view detailed insights about the outbreak in the past 5 years.



LIVECORP
THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION

mla
MEAT & LIVESTOCK AUSTRALIA

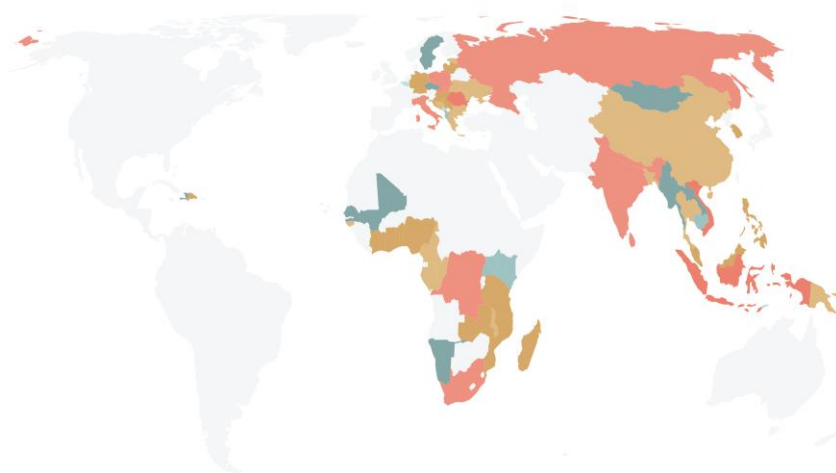
Major disease threats today: ASF

- Highly contagious and fatal disease of pigs
- Caribbean
- Indonesia and Timor Leste 2019
- Papua New Guinea 2020
- Taiwan Oct 2025

NB: 5-year distribution of disease cases sourced from animaldiseaseinsights.com data sourced from WOAH based on early warning notifications and biannual reports submitted by national veterinary services

Distribution of Disease Cases

Hover over a country to view detailed insights about the outbreak in the past 5 years.



LIVECORP
THE AUSTRALIAN LIVESTOCK
EXPORT CORPORATION

mla
MEAT & LIVESTOCK AUSTRALIA

Australia's multi-layered defence

- Pre-border
 - ✓ Support regional disease control programs
 - ✓ Vaccine banks for FMD and LSD
 - ✓ Building partner capability
- Border
 - ✓ Passenger declarations and screening
 - ✓ Import risk assessments and permits
 - ✓ Detection of illegal food imports
- Post-border
 - ✓ Northern Australia Quarantine Strategy
 - ✓ National surveillance in saleyards, registered premises, abattoirs, farms
 - ✓ Agreed emergency response plans (AUSVETPLAN)

Reflections and implications

- The entry of FMD or LSD into Australia would be a disaster
- Delays in detection or reporting have serious consequences
- Surveillance is important
- Immediate suspension of export certificates
- Maintaining Australian biosecurity defenses is of paramount importance
- Australia is playing a valuable role regionally and globally

Take home messages: 1

- Australia is not immune from disease incursions, so:
 - ✓ Build trust through transparency and cooperation
 - ✓ Strengthen biosecurity nationally and on farm
 - ✓ Understand what will happen in the event of a disease incursion, particularly for livestock in transit
 - ✓ Think about restricted market access based on disease free zones or vaccination

Take home messages: 2

- We should be investing in:
 - ? Disease surveillance onshore and offshore
 - ? Vaccine technology and supporting regulatory systems
 - ? Rapid, reliable and shelf stable diagnostics
 - ? Basic research: mechanisms of disease transmission, insect vectors

Take home messages: 3

- We should be advocating for:
 - ✓ Strong national biosecurity arrangements
 - ✓ Industry participation in preparedness and response arrangements
 - ✓ Enhanced veterinary presence in rural and regional Australia

Thank you

Mark Schipp

November 2025

