



Thoroughbred Breeding in Today's World

Challenges, Threats & Opportunities

January 2021

African horse sickness in South-East Asia

Dr John Grewar (BVSc, MSc, PhD)

Specialist Veterinary Epidemiologist

Research and Innovation Manager

john@saehp.com



AHS – the disease

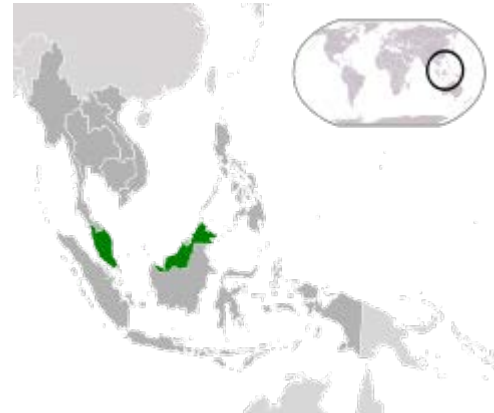
- Non-contagious vector borne viral disease of equids, mainly affecting horses
- OIE notifiable
- Trade sensitive
- Midge transmitted
 - Impact of climate and changing climate

Locations

Thailand



Malaysia

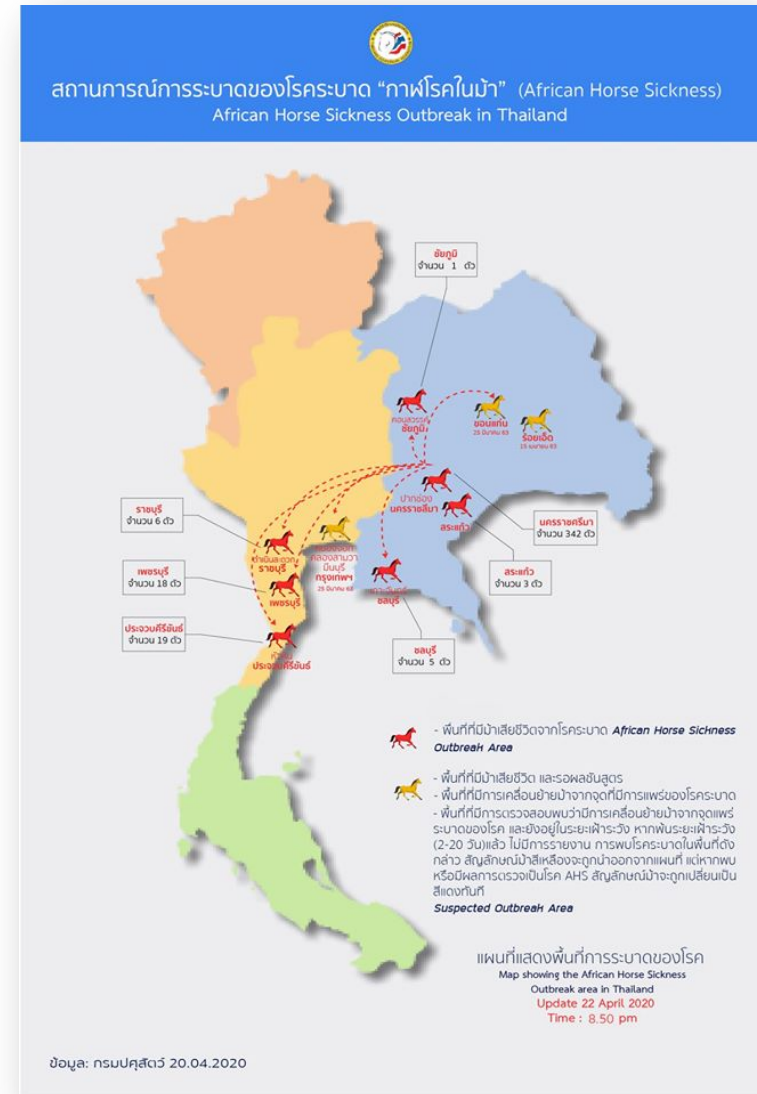


Overview - Thailand

- Thailand reported a case of AHS to the OIE on 27 March 2020 linked back to initial occurrence of 24 Feb 2020
- Outbreak spread through 17 of 76 Provinces in the country
- 610 cases occurred with 568 deaths
 - 22.3% morbidity (7.6% if PAR = vacc); 20.7% (4%) mortality
 - 93.1% case fatality rate
 - Horses primary species affected
- AHS type 1 outbreak
- Source of infection linked back to Southern Africa and to recent imports of Zebra

Overview - Thailand

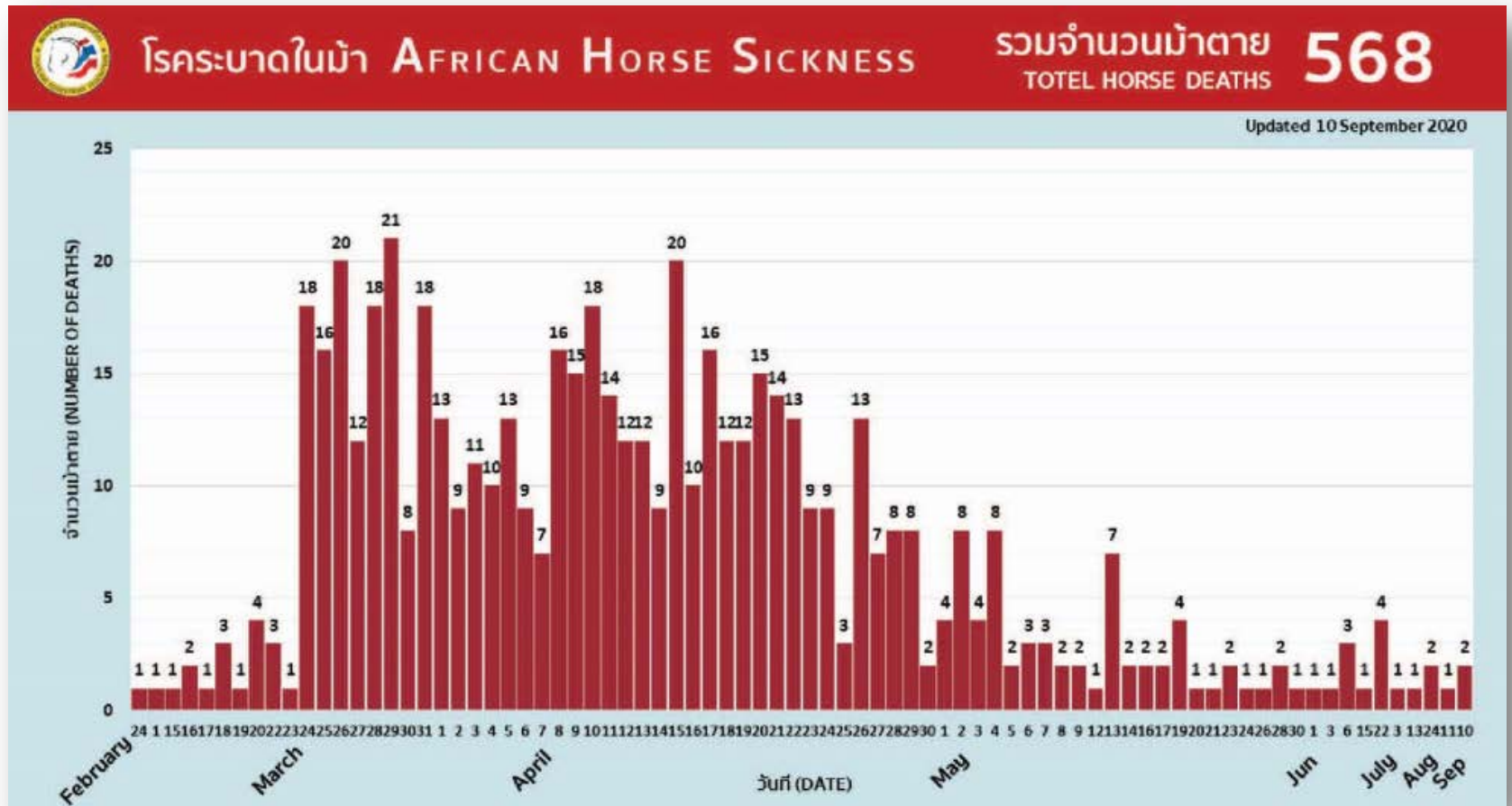
- Control through
 - Movement standstill with hotspot zoning
 - Vector protection
 - Vaccination (LAV OBP bottle 1)
 - 10 316 equids vaccinated in 27 Provinces – these were affected and immediately neighbouring to affected areas
 - Census and surveillance



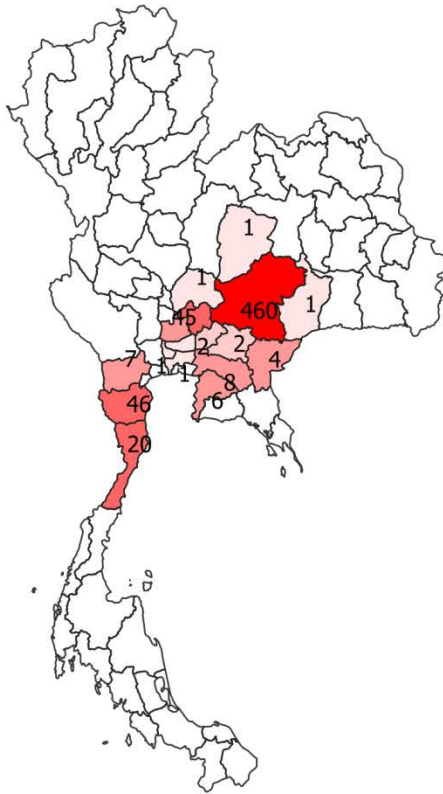
Overview - Thailand



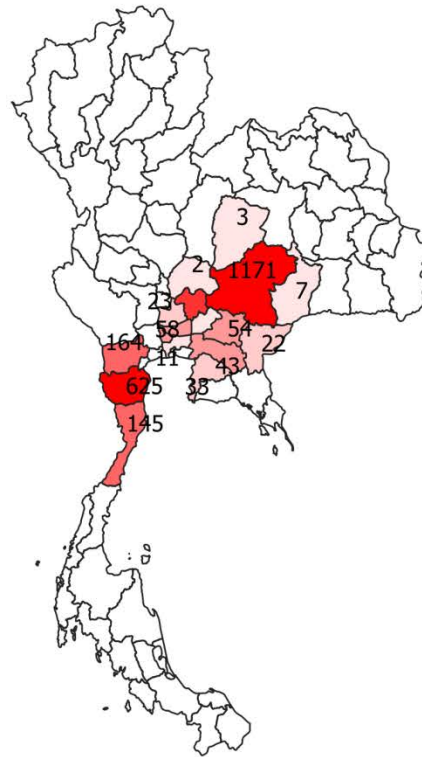
Thailand Outbreak



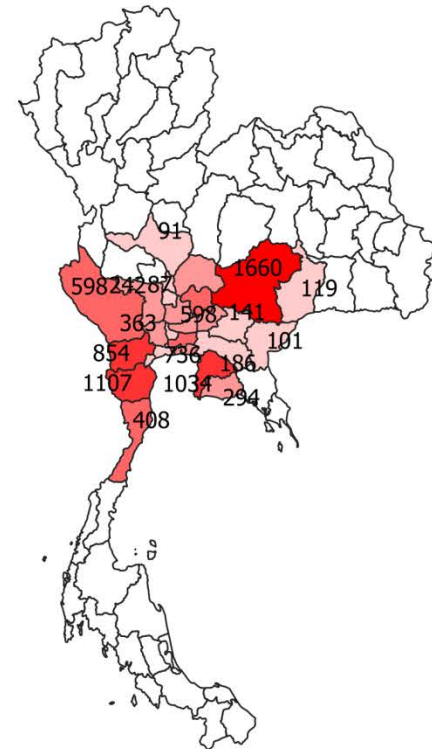
Thailand Outbreak



Cases



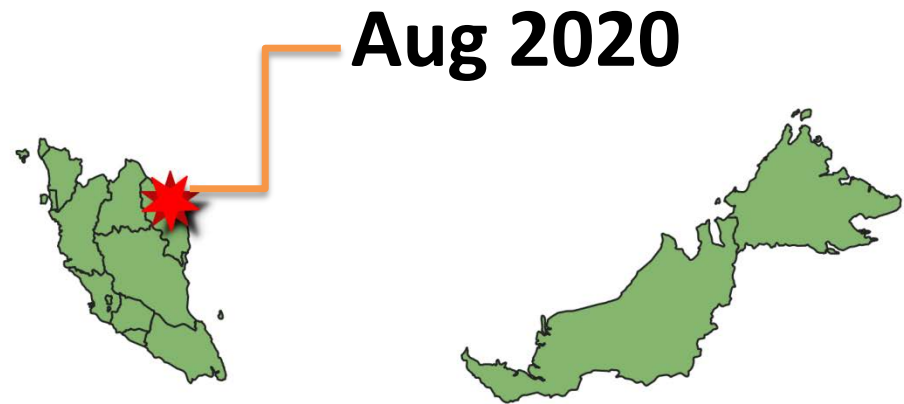
Susceptible



Vaccinated

Overview - Malaysia

- 1 outbreak location (5 cases; no deaths) reported from Malaysia in early August 2020



Cases

Information needed

- OIE AHS webinar series as insight into information required to respond to outbreak
 - Clinical signs, epidemiology, transmission and prevention
 - Diagnostic tests and possible support from OIE Reference Laboratories
 - Insect vectors, their surveillance and control
 - Eradication strategies
 - Outbreak investigation
 - Impact of AHS on the OIE official status and on international movement

Conclusions

- Control and Return to freedom
 - Public private partnerships
- Import processes reviewed
- Census data to assist control and investigation
- Movement and Vector control played large role in mitigating impact
- Global interest after incursions

African horse sickness in South-East Asia

Dr John Grewar (BVSc, MSc, PhD)

Specialist Veterinary Epidemiologist

Research and Innovation Manager

john@saehp.com