

Republic of Yemen



**Summarized by: Dr. Yaser Aleryani
D.G. of Animal Health & Veterinary Quarantine**

Introduction

- Map of Yemen
- Area - about 550,000 Sq.m
- Human Population - approx. 23 millions with annually growth 3.5%
- 75% of the population living in the rural areas. 75-80% of those own or work with animals.
- Poorest people own some animals, but they do not own the land.

YEMEN



SAUDI ARABIA

0 200 km
0 120 miles

Undemarcated Border

OMAN

Rub' al-Khali
(Empty Quarter)



ARABIAN
SEA

Gulf of Aden

Introduction- continue

- Yemen divided into 5 Agrozones:
- 1. Coastal - Tihamah
- 2. Northern - high mountains
- 3. Medal highland
- 4. Southern Uplands
- 5. Eastern - dry, desert

Livestock sector

- Animal in Yemen and their population:
- Small ruminants (Sheep and Goats) - 19 millions.
- Cattle - 1.6 millions
- Camels - 250,000
- poultry - about 90 Millions about more then 70% B.
- donkeys
- horses
- rabbits
- cats and dogs
- Wild animals- deer, foxes, hayna, tigers

Farming system

- Extensive type:
 - in the villages:
 - cattle - 1-2 heads in the mountains, 5-50 head in the Tihamah
 - Sheep & Goats - 30 to 200/300 heads
- Intensive type:
 - around cities- about 7 dairy farms(≈ 400)
 - some fattening farms
 - poultry - from 10,000 to 300,000



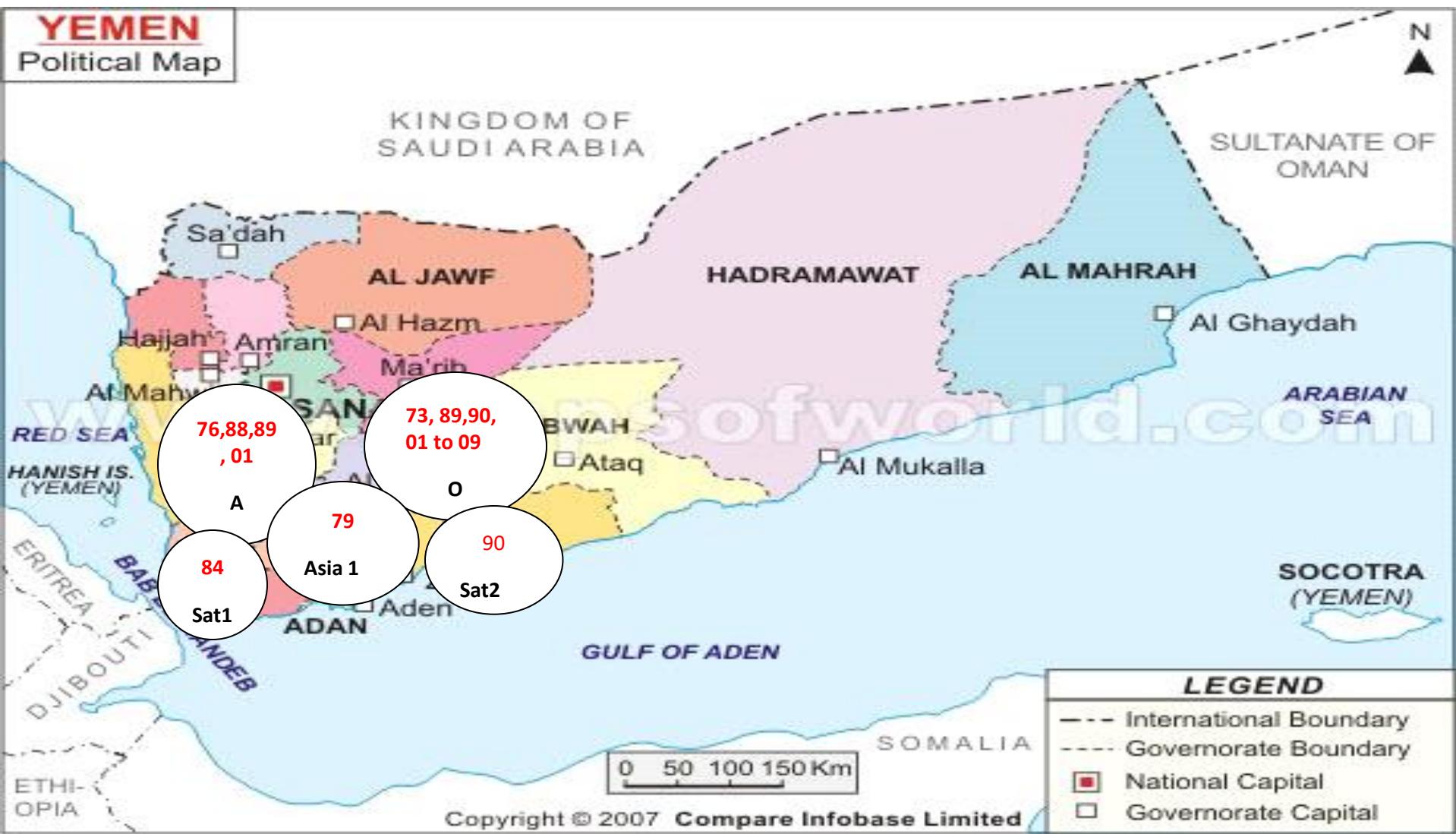
Surveillance System

- HQ - Sana'a
- Regional- 7 Units
- Governorates U.- 21
 - Passive - reports
 - Active:
 - react with reports
 - cluster Abortions
 - RP-like symptoms
 - deaths
 - Survey(random, purposive)

Disease Control

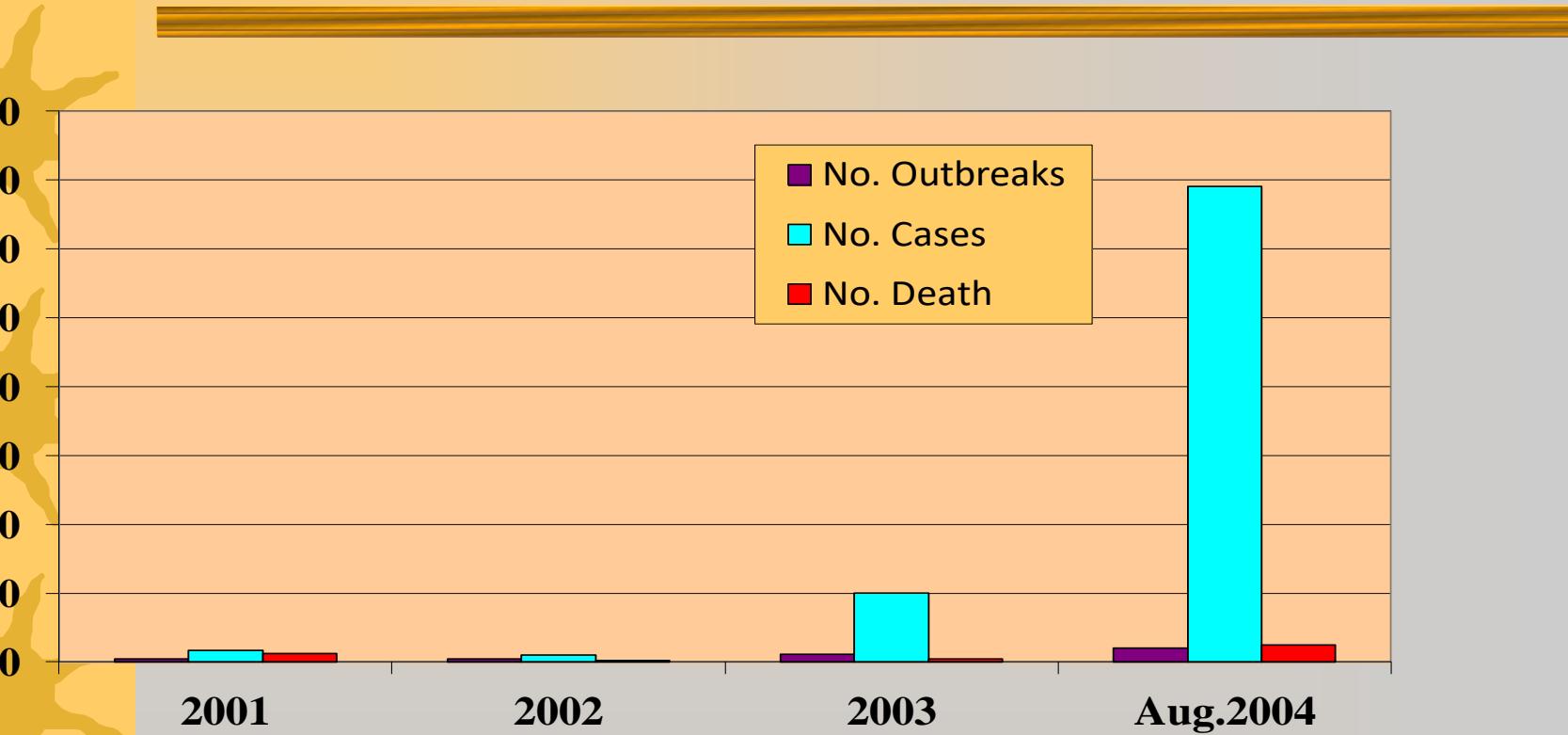
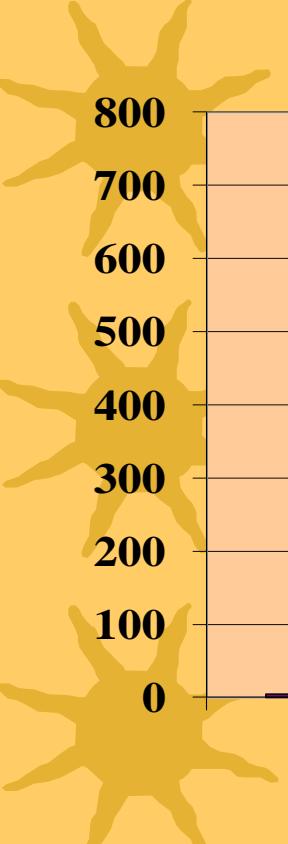
- Vaccination:
 - PPR
 - Sheep & Goat pox
 - FMD - dairy and fattening farms (Bivalent O, A)
 - poultry vaccines- private
 - Clostridium vaccines- private

History of FMD Disease in Yemen

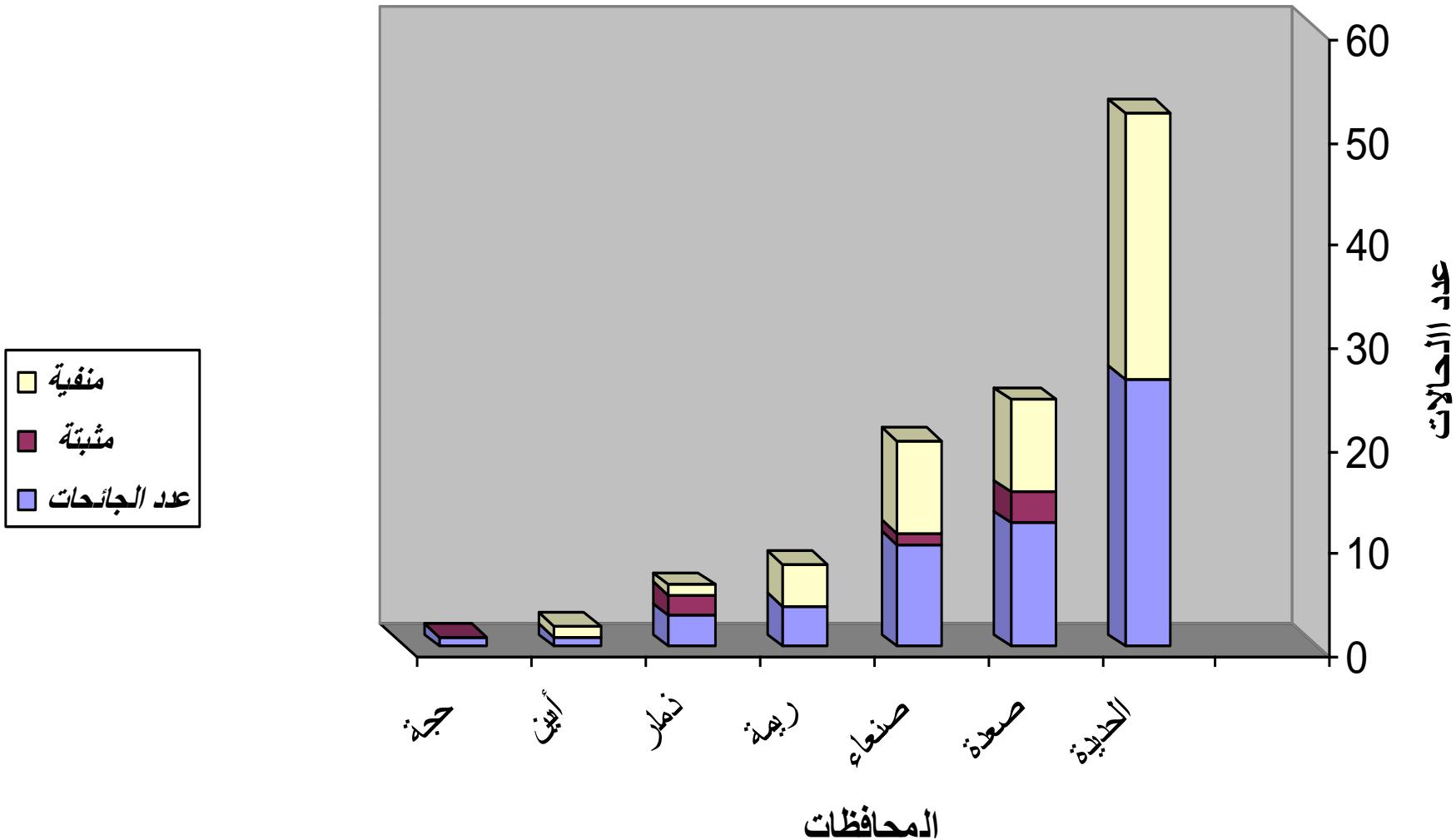


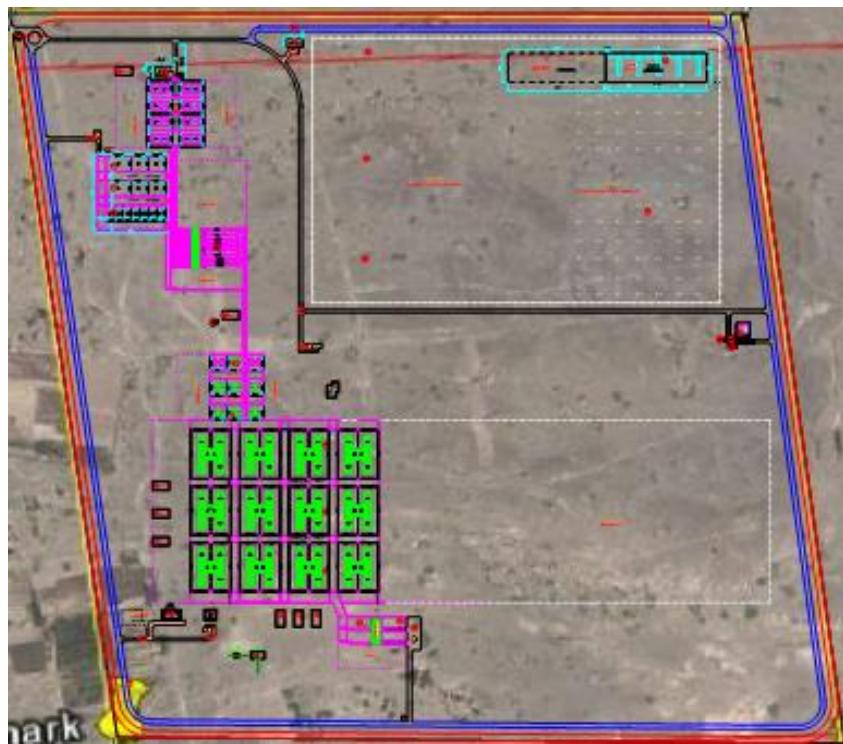


FMD outbreaks



الحمى القلاعية

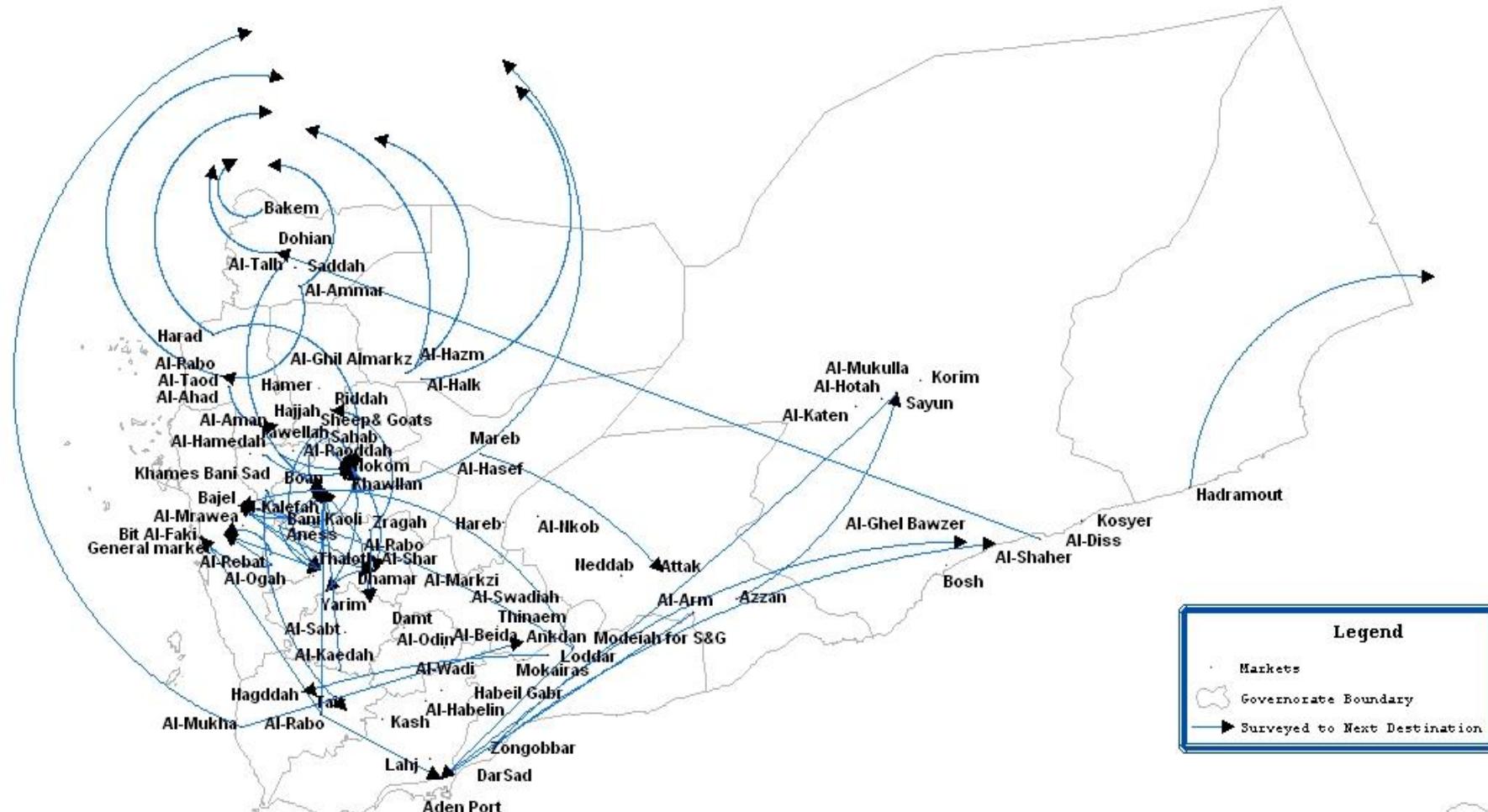




Routes of Yemeni livestock movement between Regional Markets Surveyed to Next Destination Markets



The Survey was made by
ARD, INC
for the LMT in Feb., 05



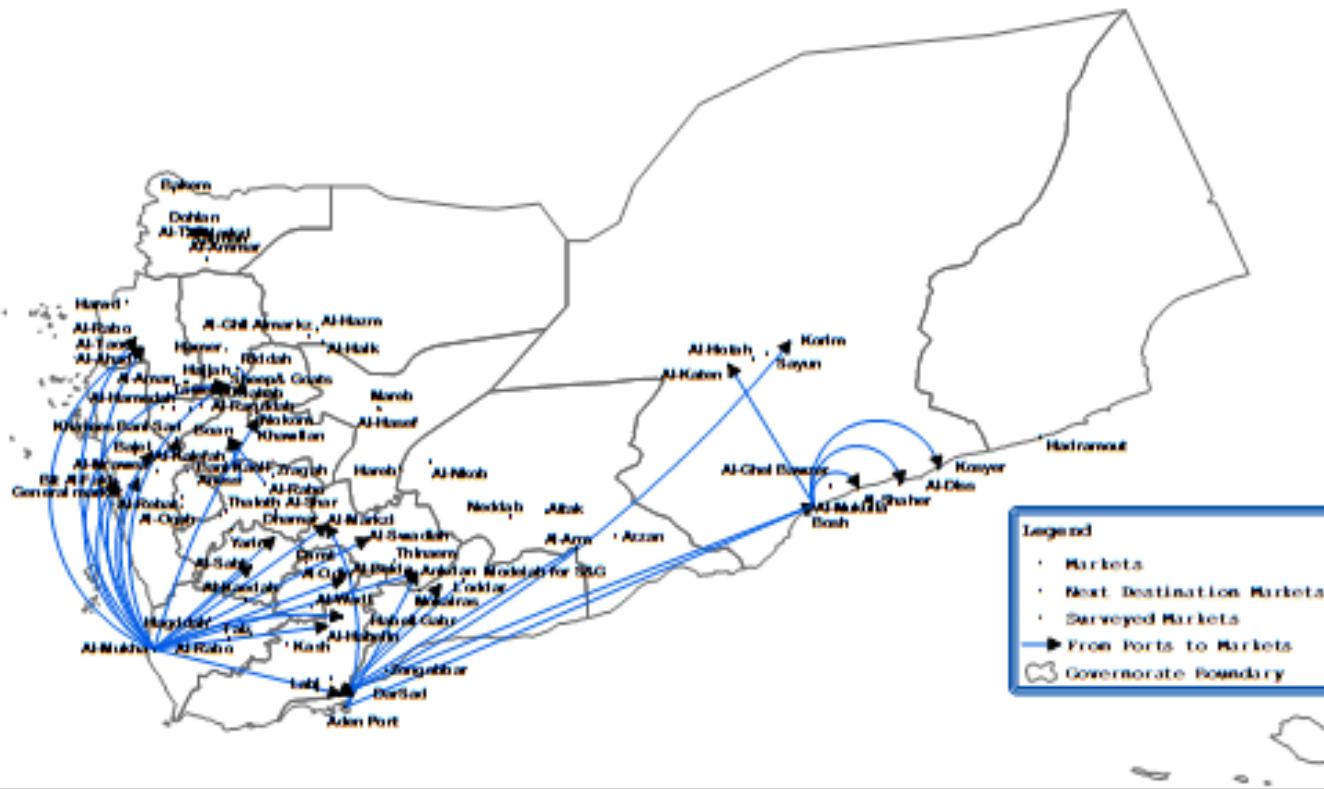


USAID
FROM THE AMERICAN PEOPLE

Routes of Movement of Livestock From Ports of Entry to Markets



The Survey was made by
ARD, INC
for the LMT in Feb., 05





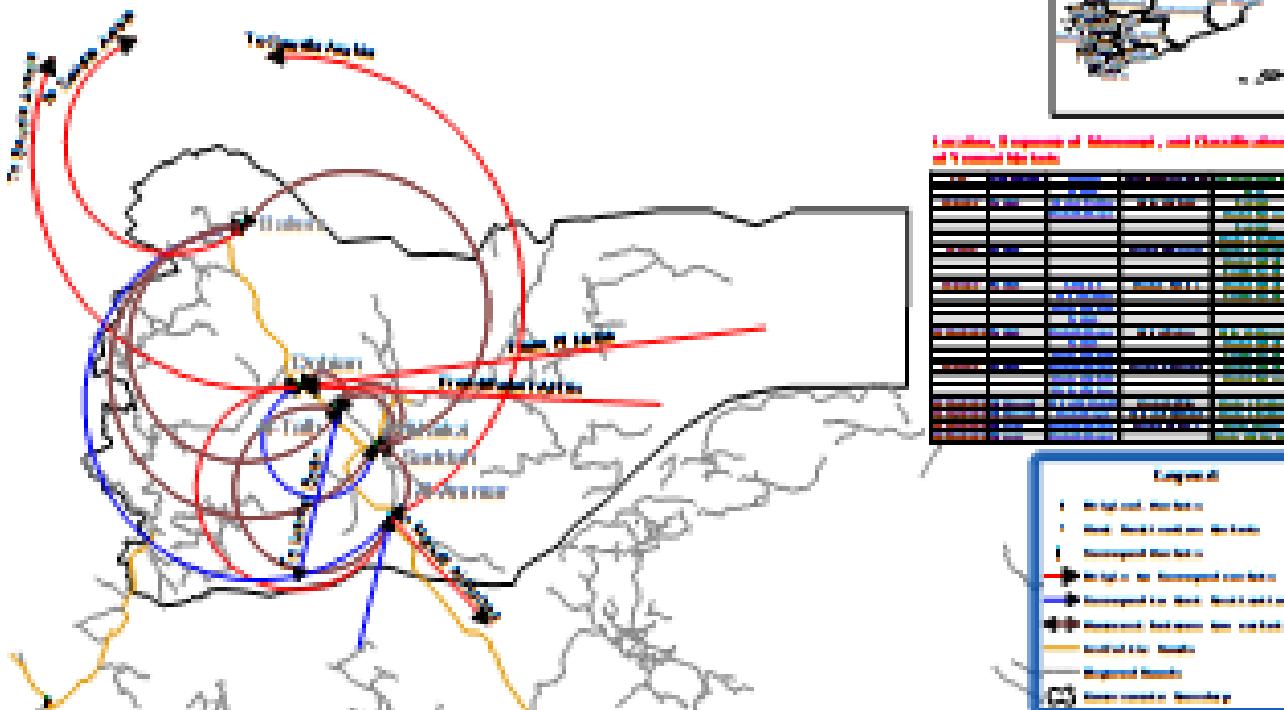
S'ADAH GOVERNORET

Routes of Yemeni livestock movement between local markets



10 of 10

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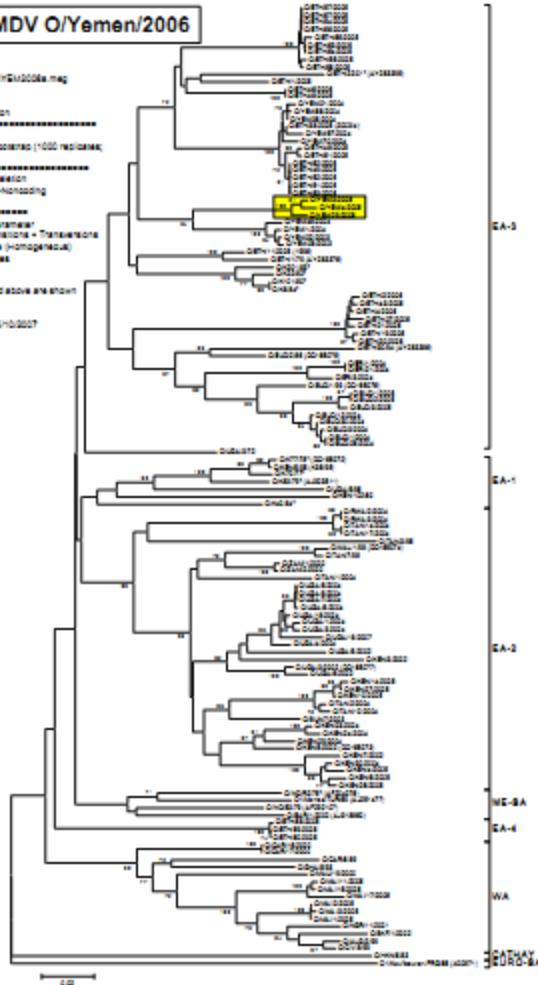
Report on FMDV O/Yemen/2006

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Software: MEGA 3.1
No. of Taxes: 130
Data File: mle/megacommon/Gu2008a.meg
Date: October 2008
Version: 3.1 (Build 130)
Analysis: Phylogeny reconstruction
Tree Interchange: *****
Method: NeighborJoining
Phylogeny Test and options: Bootstrap (1000 replicates)
Bootstrap Support: 1000
Include Sites: *****
Character Coding: Standard
Character Deletion: Parvulus Deletion
Character Position: 1-1000+Non-Deletion+Missing
Substitution Model: *****
Model: Nucleotide Kinetics Scrambler
Substitution Model: 1st=TCAG + Transitions
Pattern among Lineages: Same (Homoplasious)
Resampling Method: Uniform tree
Number of Bootstrap: 1000
No. Of Characters: 1000
GTR: Substitutions: V3000, C3000, T3000, A3000, G3000

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2023年小升初数学真题卷

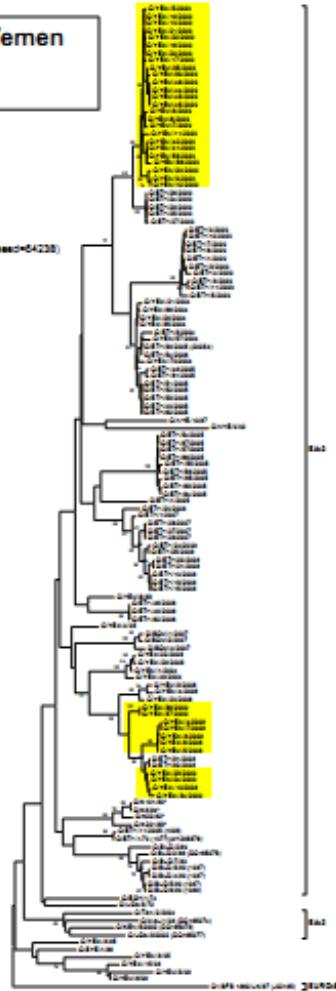


Report on FMDV O from Yemen in 2008-2009

Batch: WRLFMD/2009/00015

* not a WRLFMD Ref. No.

N.J. Knowles & J. Waddington, 5 July 2009



Thank you