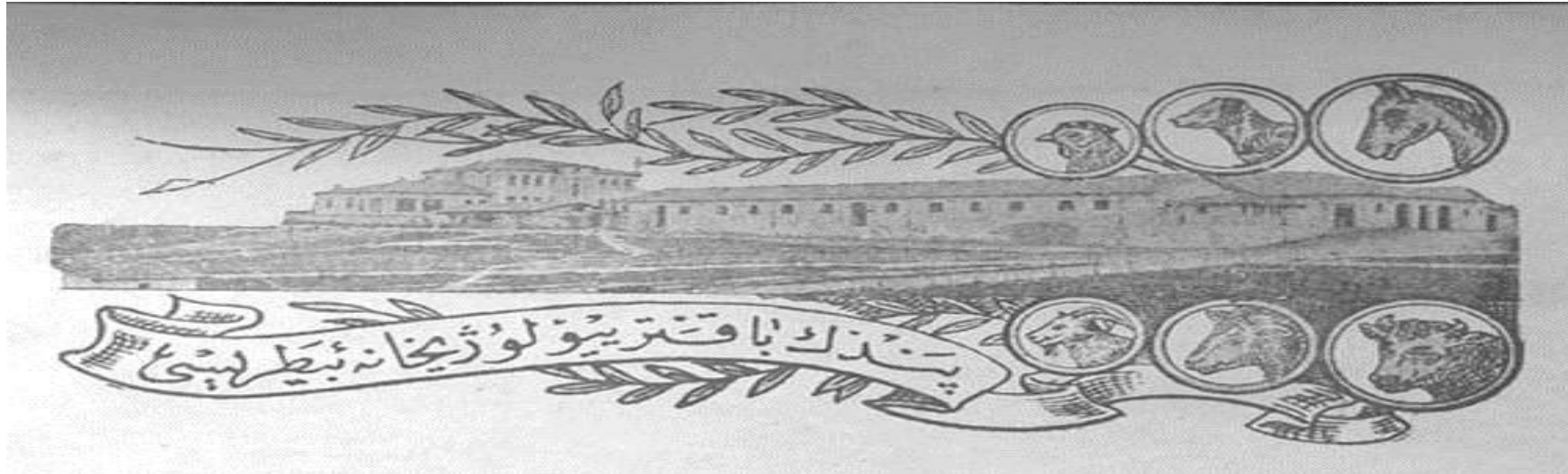




REPUBLIC OF TURKEY
MINISTRY OF FOOD, AGRICULTURE AND LIVESTOCK
PENDIK VETERINARY CONTROL INSTITUTE



LSD Situation, Surveillance and Control Activities in TURKEY



National Reference Laboratory for LSD and SGP



Situation & Activities (in 2013)

➤ **LSD control strategy ;**

LSD control strategy of Turkey is based on Veterinary Services, Plant Health, Food and Feed law no: 5996 and in compliance with Council Directive 92/119/EEC except slaughtering.

➤ LSD is a compulsory notifiable disease in Turkey.

✓ Restriction, Quarantine, Ring Vaccination, Sampling, Diagnosis

✓ Control of animal movements

✓ Cleaning and Disinfection in outbreak areas

✓ Insect control

✓ Vaccination in outbreak area.

➤ National Reference Laboratory is Pendik Veterinary Control Institute

➤ SGP vaccine (Bakırköy strain, local strain; Penpox-M) that produced by PPCI and private companies and this vaccine is used for LSD

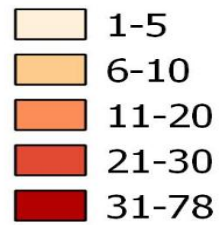




LSD OUTBREAKS – SEPTEMBER 2013



Number of Outbreaks

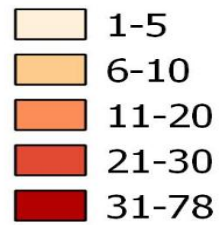




LSD OUTBREAKS – NOVEMBER 2013



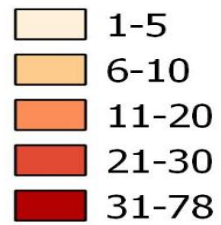
Number of Outbreaks



LSD OUTBREAKS – DECEMBER 2013



Number of Outbreaks





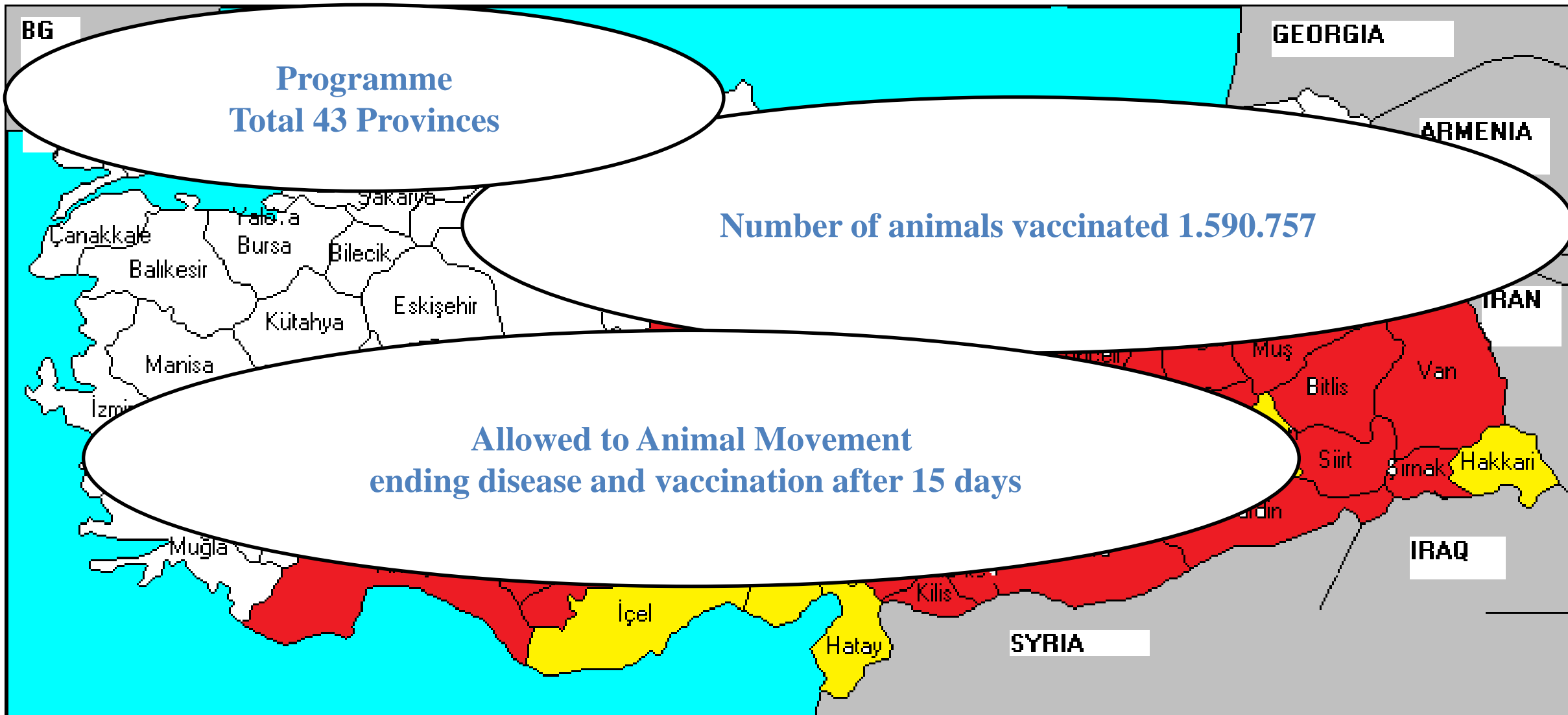
Situation & Activities (2014)

➤ Payment of compensation

- ✓ Eradication of the disease and may occur as a result of loss compensation in 2014 was added to the list of compensation diseases
- ✓ Positive laboratory result and clinically symptomatic animals in outbreak zone compensated to the owners (%50 of the animal value)

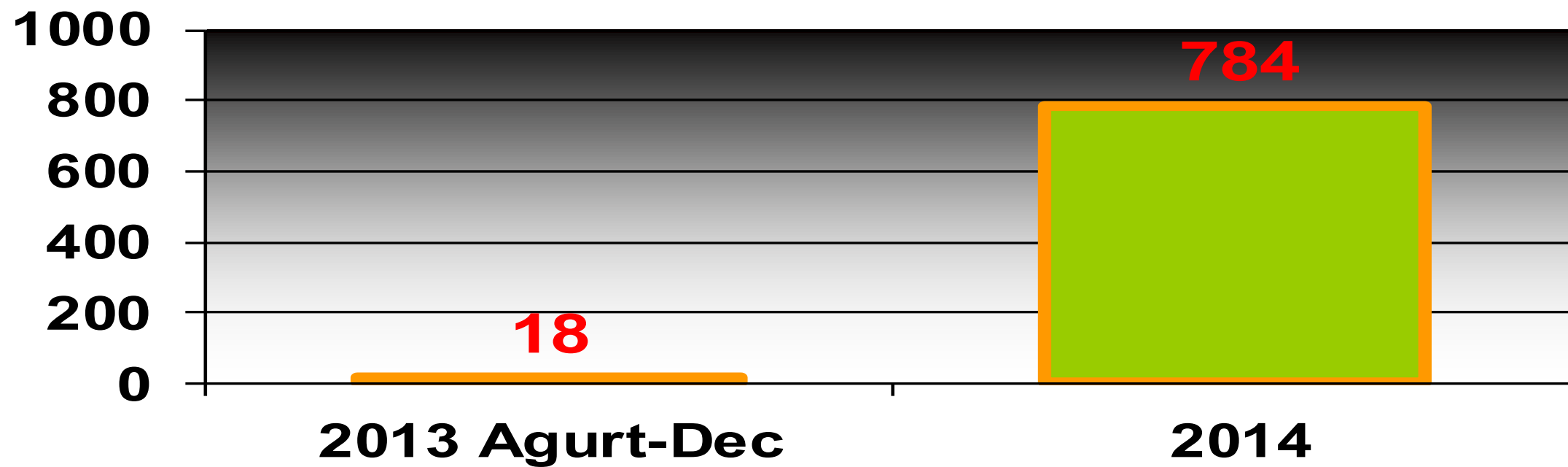


Vaccination Zone 2014





LSD Outbreaks & Years (2013-2014)





Evaluation of 2014

- Some vaccinated animal was sick after vaccination ;
 - ✓ Animals in the incubation period of disease
 - ✓ Biological properties (Lactation, pregnancy, weak body condition) are very effect to occur the LSD; **Predispose factors**
 - ✓ The intency of the outbreaks in region is an other factor.

- Subcilinical infected animals (after the quarantina period (30 days) the animals are allowed to move movement from the outbreaks areas).
 - ✓ Subclinical infected animals were infect new provinces.

- Kurban festival a potential risk for transmisson of the LSD to far away. and control measures should be increased in this period.

- Climatic changes and geografical status;
 - ✓ long summers
 - ✓ late coming winter
 - ✓ warmer winter
 - ✓ windy weather (sand storm)
 - ✓ wetlands
 - ✓ altitude



Situation & Activities (2015)

The disease-control strategy in 2015;

- All provinces in Turkey were included in the vaccination campaign. Vaccination determined by each local authority (because of differences between their climate conditions, geographical status and husbandry system)
- Vaccine dose was increased to 3 times doses sheep and goat vaccine (Penpox)
- Vaccination campaign was planned for all cattle populations (older than 3 months and under 9 months pregnant)
- Compensation rate of 2015 was raised from %50 to % 100.
- Control of vaccination before animal movement after the completion of the vaccination campaign
- Vaccination campaign in the all provinces depending on the workload and staff were completed between %50 and %100.

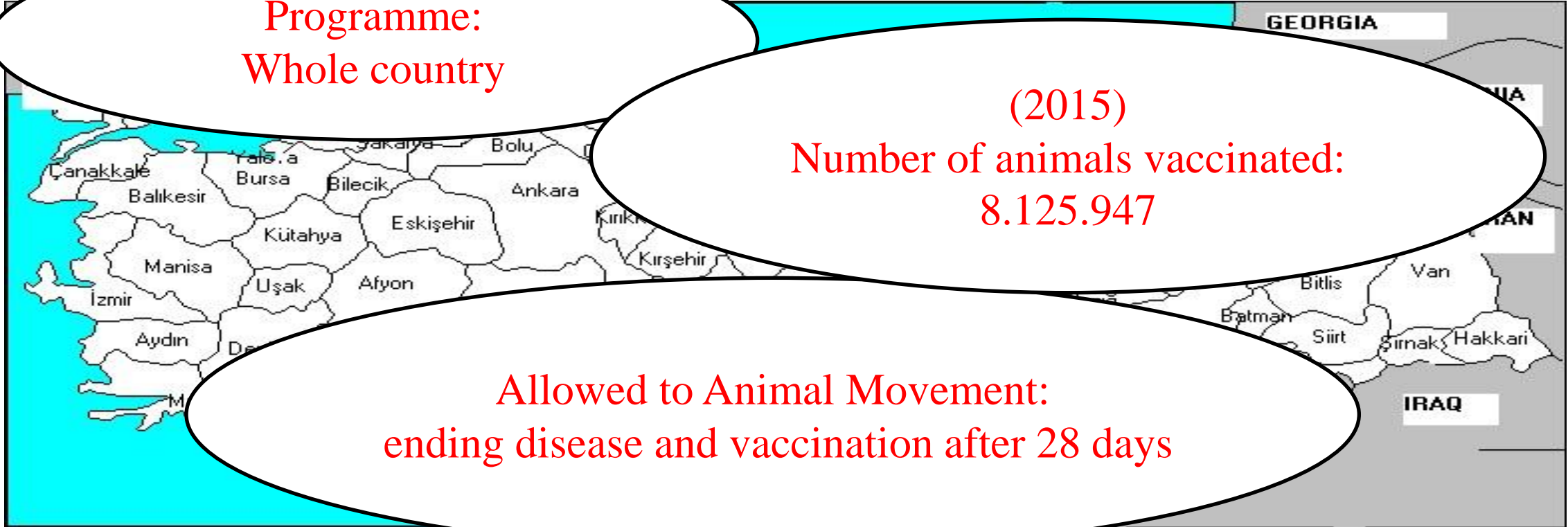


Vaccination Zone 2015

Programme:
Whole country

(2015)
Number of animals vaccinated:
8.125.947

Allowed to Animal Movement:
ending disease and vaccination after 28 days





Situation & Activities (2016)

- All works related to the fight against the disease is still continuing. (Restriction, Quarantine, Ring Vaccination, Sampling, Diagnosis, Vector control)

- Field and scientific studies related to LSD is still continuing.

- We are continuing to develop vaccines from local strain
- Animal movements strictly controlled (very important point for disease control)
 - ✓ Vaccinated animals were allowed to move after 30 days of vaccination
 - ✓ Only smaller than 3 months animals were allowed to move unvaccinated

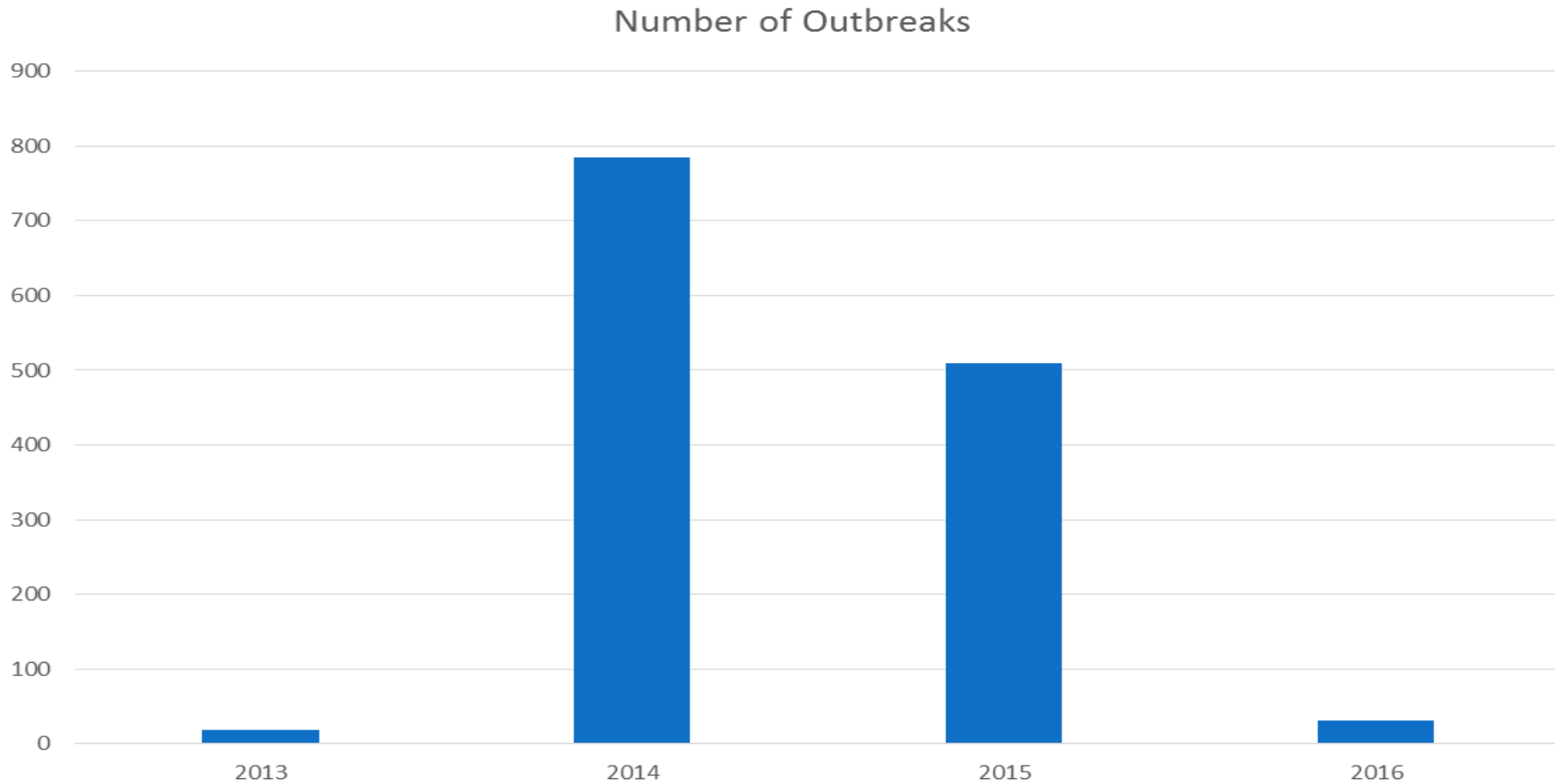
- Vaccine effectiveness study was conducted with Dr. Nick Lyons from Pirbright Institute in Gaziantep on June 2015.

- Vaccine efficacy study conducted by Dr. Kris de CLERCQ from CODA-CERVA (Veterinary and Agrochemical Research Centre) in Belgium.

- LSD vaccine study was initiated at the beginning of 2015 by The National Reference Laboratory.



LSD Outbreaks & Years (2013-2016 April)





Vaccination Zone 2016

Programme:
Whole country

(2016 April)
Number of animals vaccinated:
4.769.092





Possible Reasons for the Small Number of Outbreaks

- Vaccination decreased the number of outbreaks ,
(Same geographic status, same climate condition, different number of outbreaks between provinces)
- High Average Vaccination rate in Turkey
- Due to subclinical and infected animals to provide a certain level of natural immunity
- After the January low temperatures to be seen in many cities in Turkey
- Increased awareness among farmers
- To stipulate vaccination before the animal movement



Situation & Activities (Turkey's Thrace)

- Vaccination of all cattle populations in Thrace was planned.
- Under this program a total of 534.732 animals vaccinated with Sheep and Goat pox vaccine in five provinces in Thrace.
- Realisation rate of vaccination

EDİRNE %91

ÇANAKKALE %50

TEKİRDAĞ %80

KIRKLARELİ %88

İSTANBUL %70





Summary Our Experience

- ✓ Vaccination most important measure
- ✓ Clinical survey must be done periodically
- ✓ Early detection, culled and other control measures should be applied very quickly.
- ✓ Control of animal movement very important especially for subclinical infected and infected in incubation period animals
- ✓ Vector control



THANKS FOR LISTENING