

REPUBLIC OF TURKEY MINISTRY OF FOOD AGRICULTURE AND LIVESTOCK



LSD Situation, Surveillance and Control Activities in TURKEY

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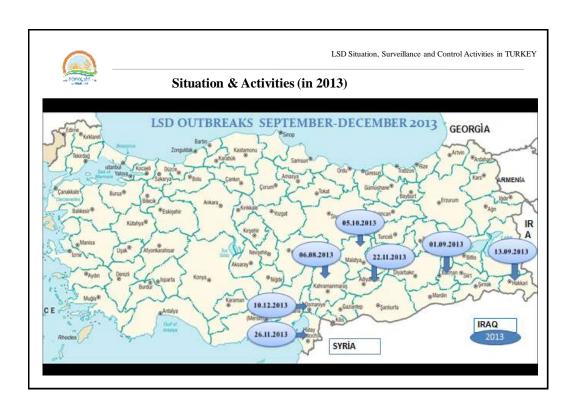
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Situation & Activities (in 2013)

> 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) is used for LSD that produced by PVCI and two private companies

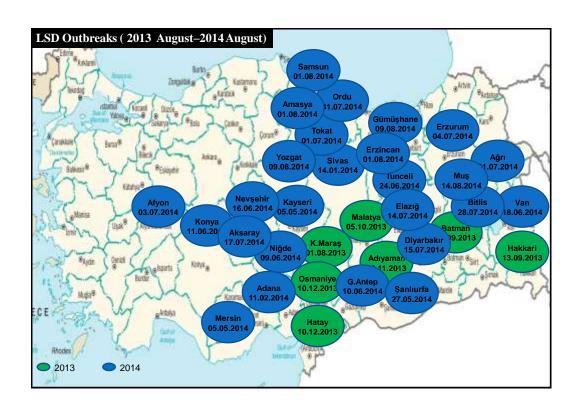


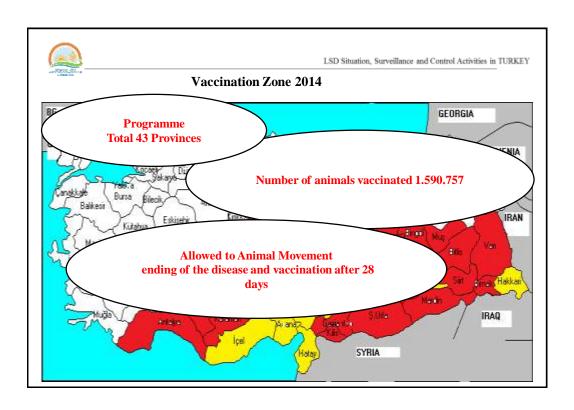


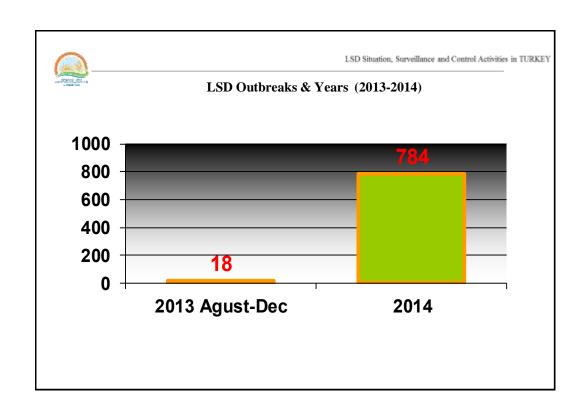
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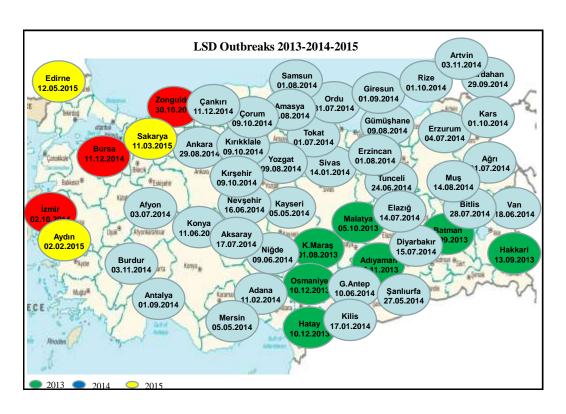
Situation & Activities (in 2014)

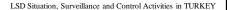
- ➤ Payment of compensation (2014)
- ✓ Eradication of the disease and may occur as a result of loss compensation in 2014 was added to the list of compensation diseases
- ✓ Positive laboratory result and clinically symptomatic animals in outbreak zone compensated to the owners (%50 of the animal value)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













LSD Outbreaks (2014)





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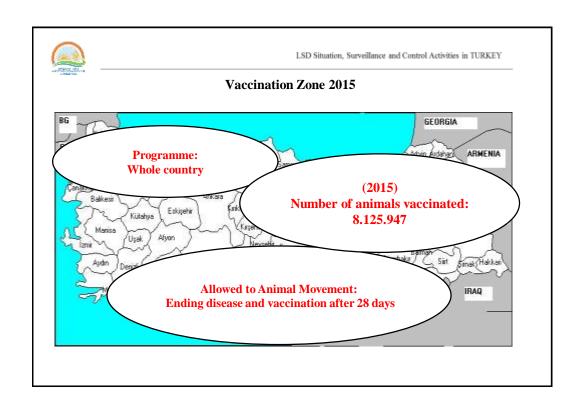
Observations & Evaluations of 2014

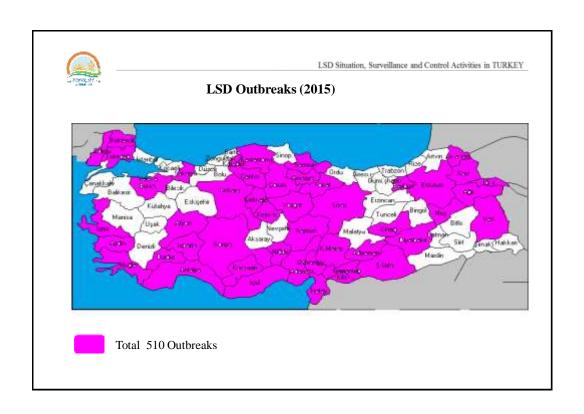
- ➤ Some vaccinated animal was sick after vaccination ;
 - ✓ Animals in the incubation period of disease
 - ✓ Biological properties (Lactation, pregnancy, weak body condition) are very effect to occur the LSD; Predispose factors
 - \checkmark The intencity of the outbreaks in region is an other factor.
- >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 is a potential risk for spread of the LSD to distant locations. Control measures should be increased in periods such as Kurban festival
- ➤ Climatic changes and geografical status;
- ✓ long summers
 - ✓ late coming winter
 - ✓ warmer winter
 - ✓ windy weather (sand storm)
 - ✓ wetlands
 - ✓ altitude

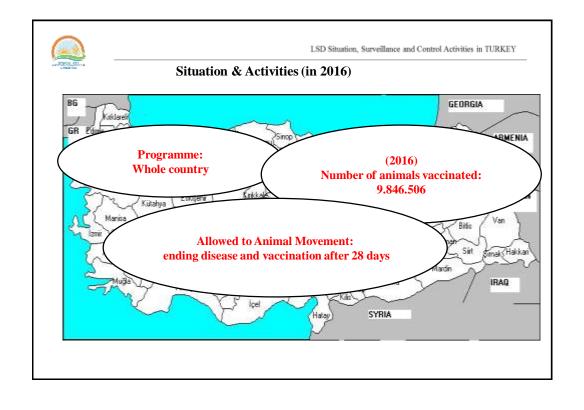


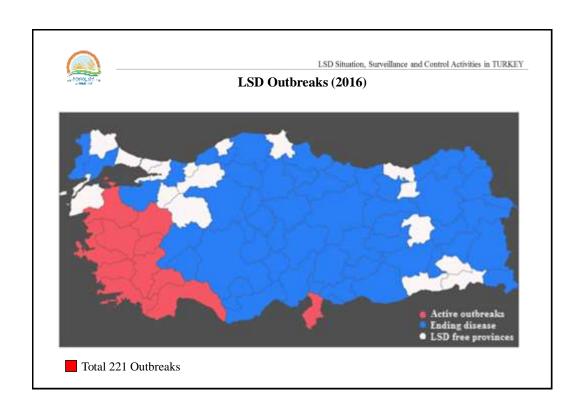
Situation & Activities (in 2015)

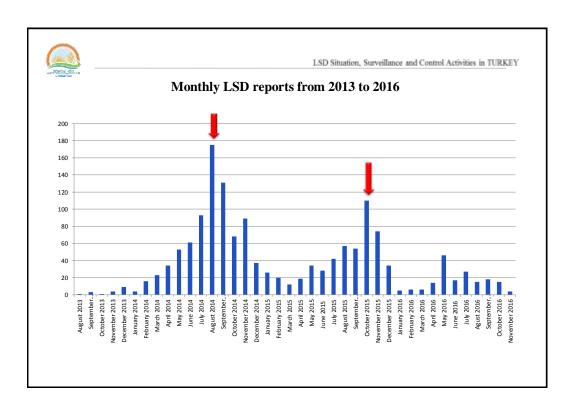
- ➤ All provinces in Turkey were included in the vaccination campaign. Start of Vaccination campaign was determined by each local authority (because of differences between their climate conditions, geographical status and husbandry system)
- ➤ Vaccine dose was increased to 3 times doses sheep and goat pox vaccine (Penpox-M)
- > 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.
- After the vaccination campaign was completed, the animal movement was allowed. Vaccination control became mandatory prior to animal movement.

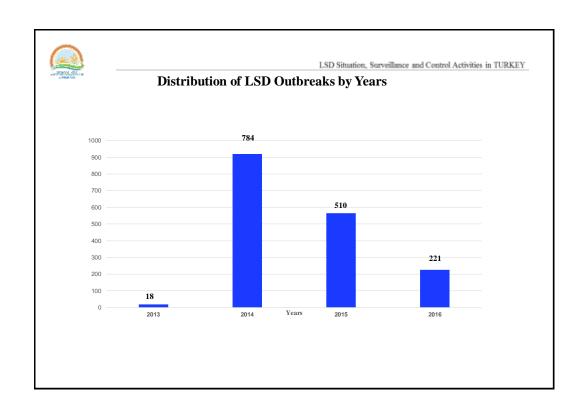


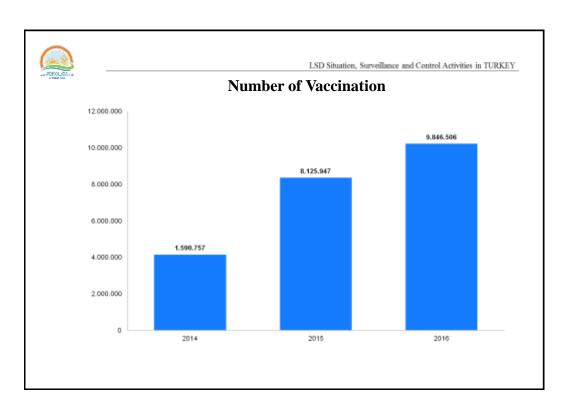


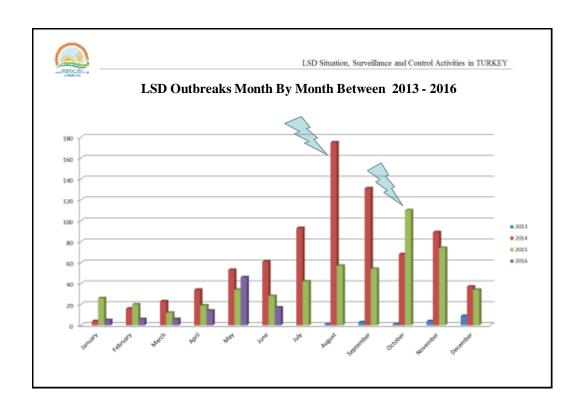


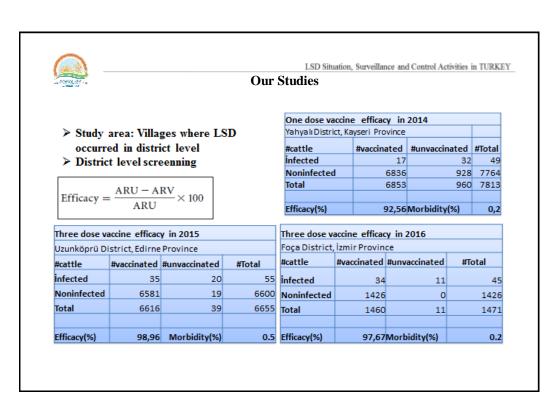
















Clinical symptom after vaccination



!!! No Side Effects (anaflaxia, abortion, local reaction)







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Field Observations in Turkey

- ➤ In winter 2014 also 2015, outbreaks was continued slightly.
- >Outbreaks were seen close or far from water sources.
- >LSD outbreaks also occurred at **all heights** varying between 50m to 1300m by difference in Turkey.
- This could be evidence that LSDV can be transmitted by other vector or by other ways which can survive in the environment for a long time or different conditions or different vector???



Experiences

- **≻Vaccination** most important measure
 - >Rate of vaccination (80-90%) and vaccination time (BEFORE VECTORAL ACTIVITY)
- ➤ Clinical survey must be done periodically.
- >Early detection and confimation, 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??



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