

Lessons learnt from LSD in Israel

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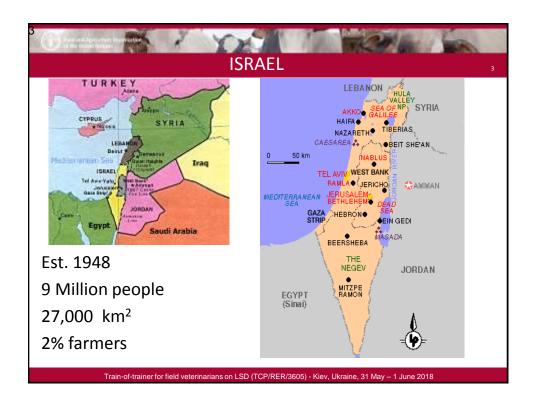
Train-of-trainer for field veterinarians on LSD (TCP/RER/3605) - Kiev, Ukraine, 31 May – 1 June 2018

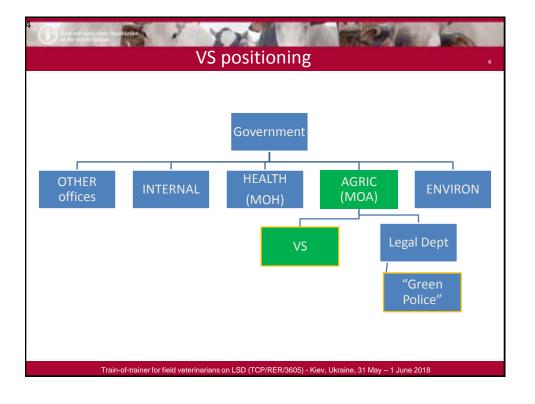
Outline

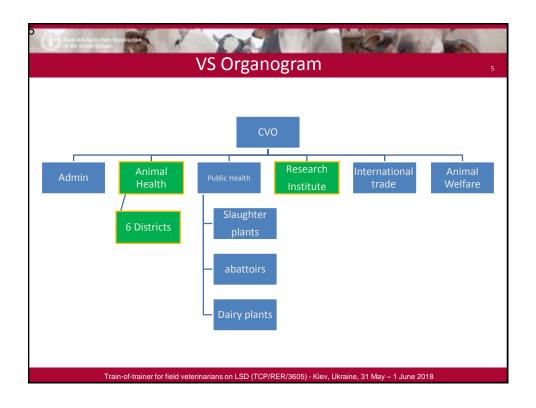
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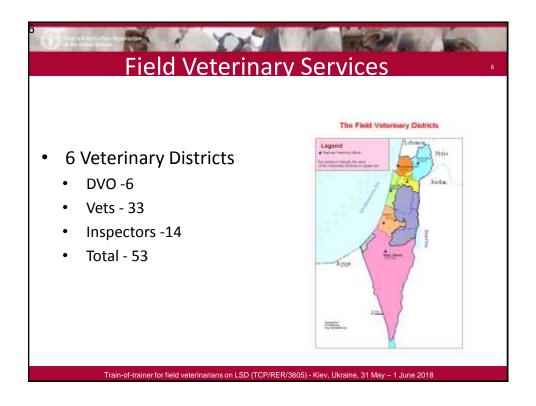
- Knowledge & Information
- Preparedness
- Detection
- Control
 - measures
 - Transmission
 - Vaccination

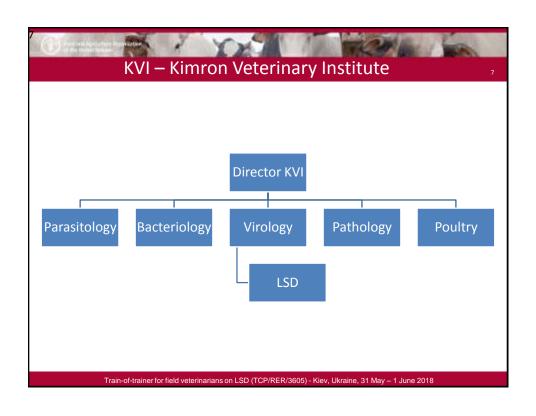
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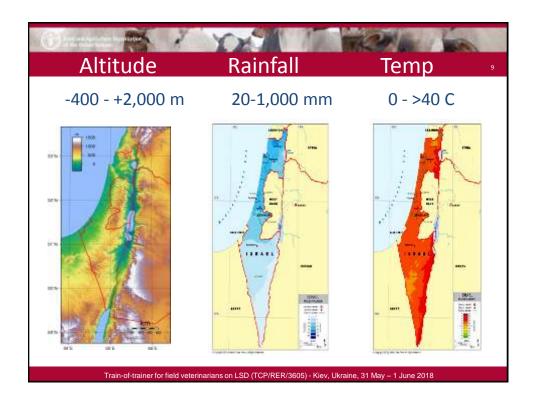




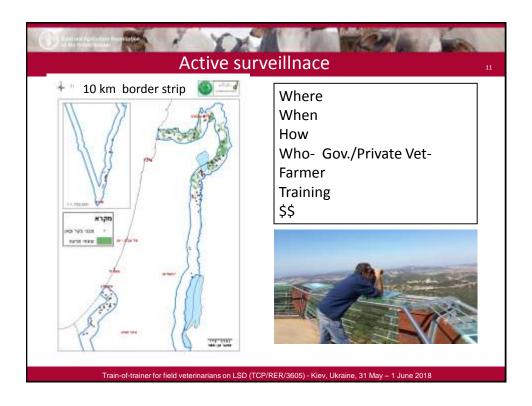




cattl	e populati	on (2012)	8
Туре	Herds	Heads (~)	Farm size
Dairy Farms	828	250,000	40-1,100
Feedlots	457	200,000	50-6,000
Pasture	596	60,000	20- 1,000
Total ~	2,000	500,000	
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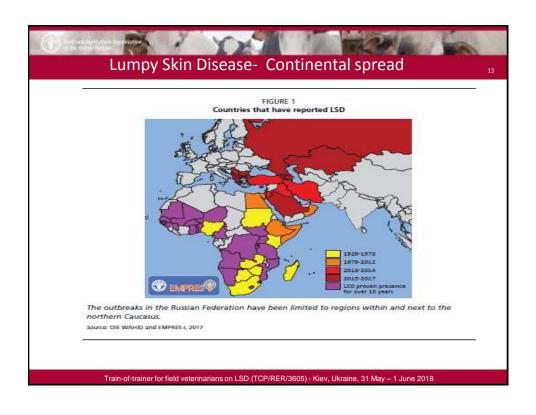


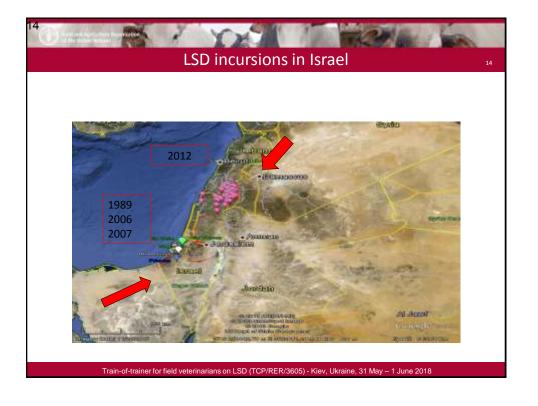


LSD "doctrine" until 2012

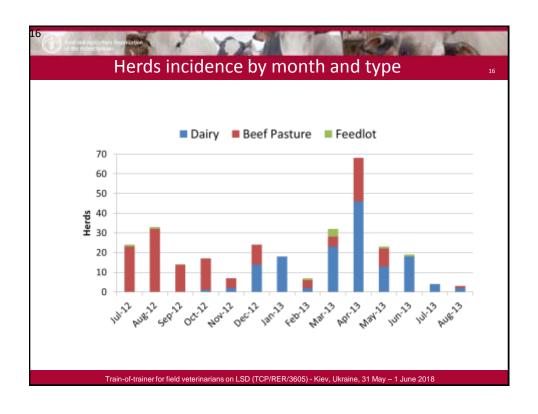
- Trans-boundary summer disease
- Comes from Africa Egypt, Gaza Strip (South West)
- The vector is known (more or less)- Stomoxys
- Sheep Pox vaccine protects (2006-2012)
- Vaccination annual, protection zone
- VS can detect early cases and eliminate the disease

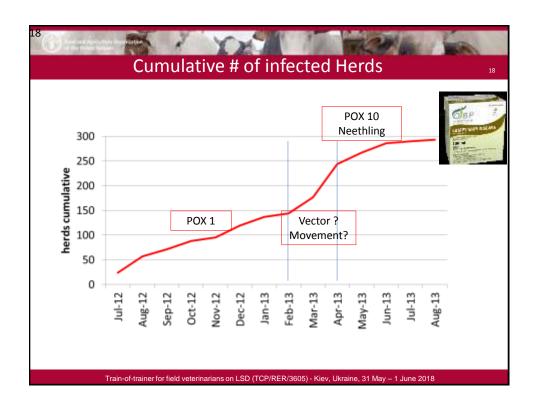
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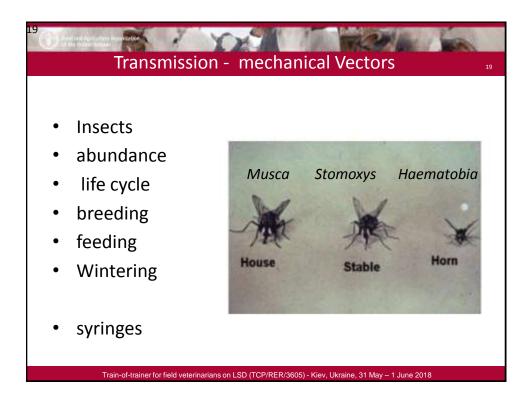




/ear	region	No of herds	Type of farm	Prev. Vacc.	Control method	Culled / died
1989	Western Negev	1	Dairy no-grazing	NO	Stamping Out	>800 heads
2006	Southern coastal plain	1	Dairy No grazing	NO	Vaccinate, clinical test & cull	206 heads 33% of herd
2007	Western Negev	9	Dairy and Beef Small size pasture	Sheep Pox RM 65	Clinical test & cull	508 Dairy 5.5% Beef 33%(10-41)
2012- 2013	north	293	Beef dairy	no	Vaccination Selective- culling	Died- 632 (< 1%) Culled- 451 (<1%)



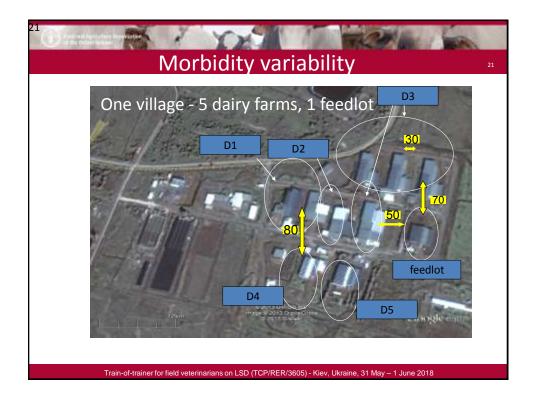




Vector transmission

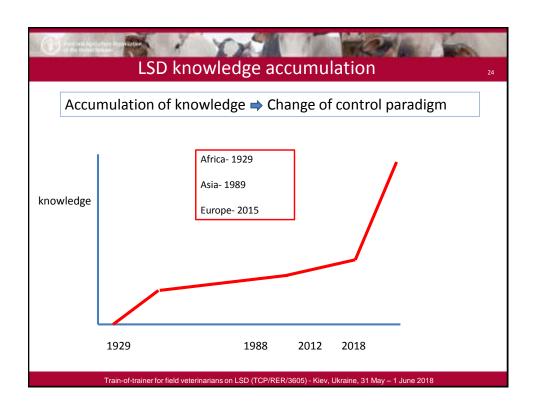
- More than one vector
- · Different vectors- region, season, housing
- Slow & steady spread (compare to BT)
 - With cattle- Horn fly
 - without cattle- Stomoxys
- No effective vector control
- Cattle movement: legal (un dx) & illegal
- · Transit permit is required prior to moving

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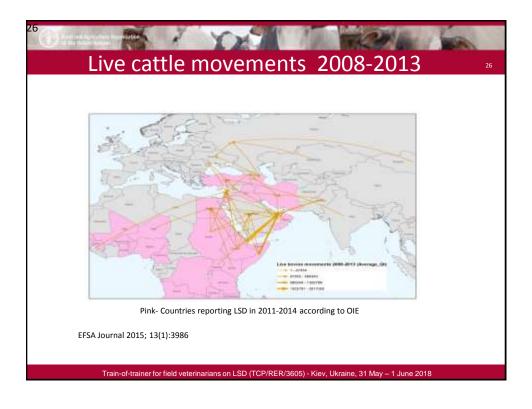


		clinical ~	
		moderate & Severe	Duration (d)
Farm	Heads in herd	cases	first- last case
Dairy 1	219	8%	91
Dairy 2	75	16%	36
Dairy 3	50	2%	0
Dairy 4	475	2%	85
Dairy 5	40	0%	0
Feedlot	300	0%	0





	Neethling OBP	sheepox-10X <i>Jovac</i>
# vaccinated	4,222	4,279
# Non clinical	4,192	4,178
% non clinical	99.3%	98.8%
% Clinical cases	30 (0.7%)	51 (1.2%)
mild	7	22
severe	23	29



Study the variability (epidemiology) Prepare a plan Detect and Respond Contain Control Back to freedom Evaluate and adapt Consult and collaborate- nationally & int'ly



