

Croatian LSD surveillance programme in 2018

Veterinary and Food Safety Directorate
Ministry of Agriculture, Croatia

SCoPAFF Meeting – December, 11, 2018

Lumpy Skin Disease – vaccination data

- Croatian country status - free with vaccination CID 2016/2008
- LSD never confirmed in Croatia
- First vaccination campaign 2016 - **432 145 bovines**
- Second vaccination campaign 2017 - **468 574 bovines**
- **Vaccination coverage over 95% herds**
- **Current (October 2018) vaccination coverage:**
 - **82 664** bovines vaccinated once
 - **146 826** bovines vaccinated twice
 - **178 901** unvaccinated bovines
- Cease of vaccination from Jan. 1, 2018
- Decision based on epidemiological situation and vaccination coverage



LSD surveillance programme design

- In line with OIE Terrestrial Code – Chapter 11.9. - Article 11.9.4. – 2. – started in June 2018
- Map of Croatia – at risk areas – 8 counties – 640 randomly selected bovines for monthly sampling (QPCR & ELISA)
- 540 randomly selected bovines according to vaccination data – immunity control
- Clinical examinations in all sampled herds (10% prev.)



At risk counties

Dubrovnik-neretva - 2/95

- 140 (150) bovines randomly selected irrespective of their vaccination status
- pre-movement clinical examinations

Šibenik-knin

Split-Dalmatia county

Vukovar-srijem

Osijek-baranja county

Karlovac

Sisak-moslavina

Lika-senj county



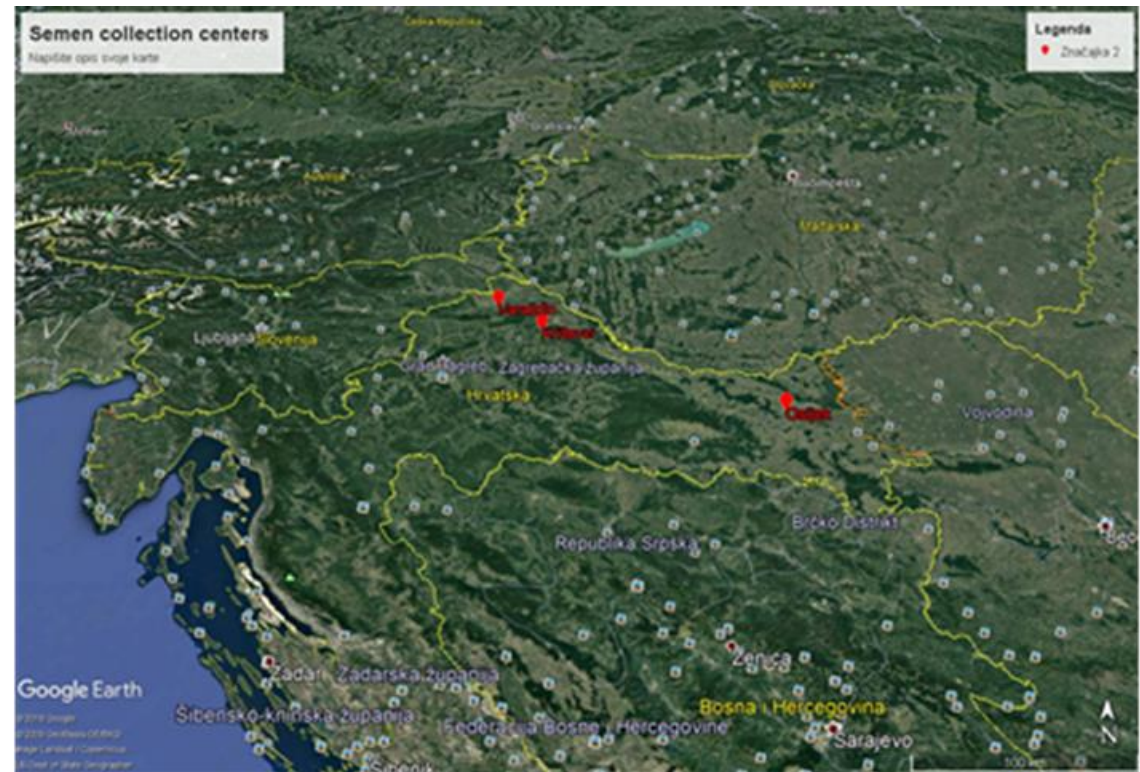
5/95

60 (70) bovines in each county



Regaining of free status - LSD surveillance programme design

- Testing of unvaccinated bulls in semen collection centers
 - VNT
 - ELISA – from June 2018 onwards
 - QPCR – blood and semen
- Pathological examination of dead bovines – no pathological signs on LSD
- Passive surveillance ongoing on the whole Croatian territory



RESULTS / data up to Oct 31

- 36 550 bovines clinically examined

No clinical signs on LSD

- 2 974 samples tested using QPCR method –

All results negative

- 2 929 samples tested using ELISA method

IMMUNITY CONTROL of vaccinated animals

839 samples tested positive



https://www.bing.com/images/search?view=detailv2&ccid=Tizc5Huo&id=64ECB9E7B0A0BB39D2F1FD06FB7DE2F24D8A5E4D&thid=OIP.Tizc5Huo5iXhfZcf8GEghaE6&mediaurl=http%3a%2f%2fwww.ika-online.com%2fwp-content%2fuploads%2f2014%2f09%2flicka_Busa.jpg&exph=451&expw=680&q=GOVEDA+BU%c5%a0A&simid=608018748701671727&selectedIndex=2

Clinical examinations

Clinical examination healthy bovines



- mucosa examinations
- udder and perineal examination
- skin palpation

Clinical examination suspect bovines

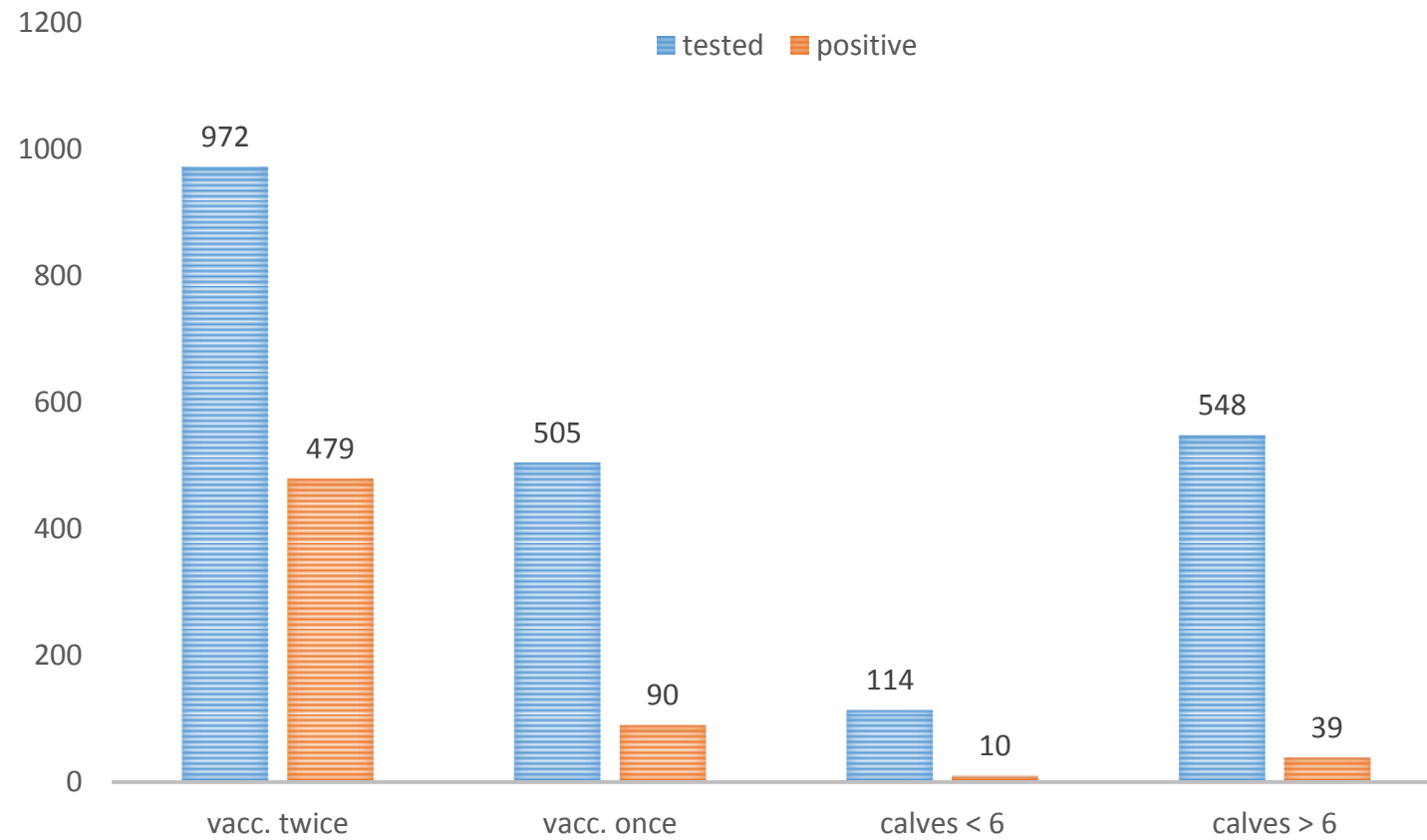
- full examinations with temperature measurement, and
- lymph nodes palpation

Ministarstvo poljoprivrede - Uprava za veterinarstvo i sigurnost hrane

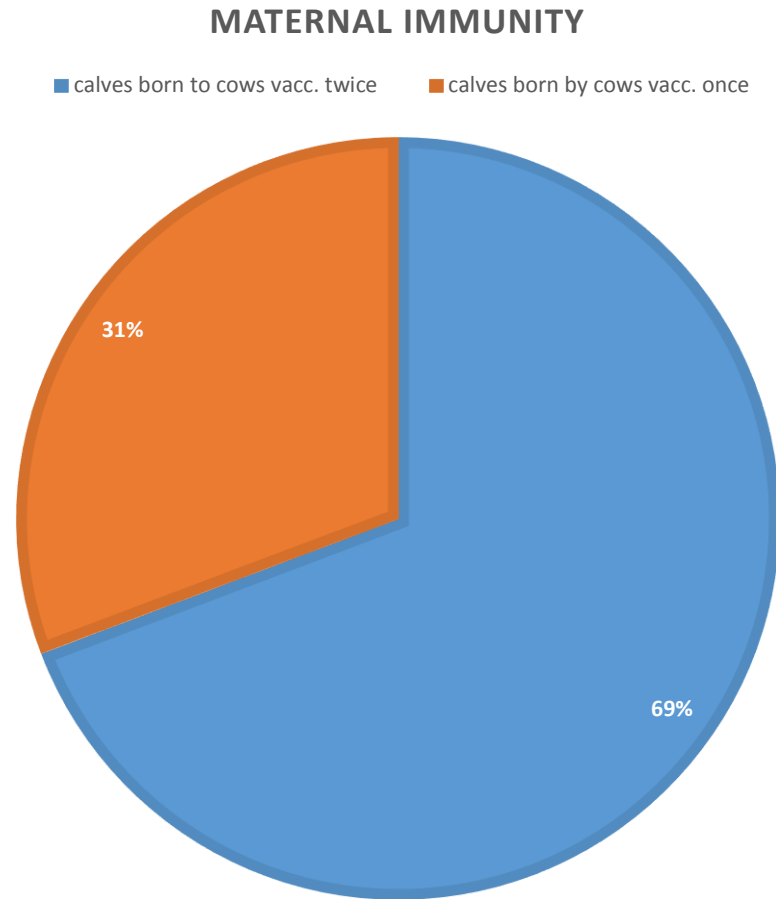
Dodatak 14 Obrazac za klinički pregled goveda

Obrazac za klinički pregled goveda					
Obrazac se koristi za potrebe kliničkog pregleda goveda sukladno Programu nadziranja BKK u Hrvatskoj u 2018. godini					
POSJEDNIK	JIBG GOSPODARSTVA	HR	2012499	ŽUPANIJA	02-BARANJSKA
	Ime i prezime, broj telefona	BEIŠE OD. F. M. KRAMBIĆ		Naselje	B. VEN
		031/4730186		Općina	BEI MANASTIR
Adresa	LAJNER 5/1, B. VEN		Ukupan broj goveda u stadu	1006	
OVO	Ime i prezime ovlaštenog veterinara/ broj telefona	VINKO BENIĆ	031/400- 133	Potpis i pečat	
	Ovlaštena veterinarska organizacija				
PREGLED	Datum:	16. 10. 18.		Broj Labnar-a:	114125
	Životni broj goveda:	02 768576052		Nalaz:	B.O.
	Životni broj goveda:	02 505861521		Nalaz:	B.O.
	Životni broj goveda:	02 50556141		Nalaz:	B.O.

Immunity control - ELISA



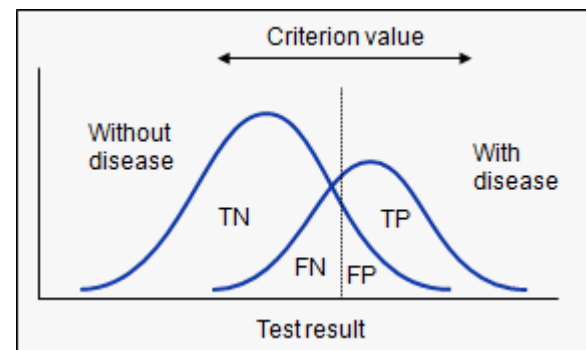
Calves immunity in relation to mothers vaccination status



Unvaccinated bulls in semen collection centers - surveillance data

	Jan.			Feb.			Mar.			Apr.			May			Jun.			Jul.			Aug.			Sep.			Oct.					
Number of samples according to the used test	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n	V a r a ž i d j i n	O s j e c k i	K r i š e v d j e c i n						
VNT	11	23		11	27		11	20		12	27	2	11	16		18	8		3														
ELISA																	10		18	11		32	16	10	16	17	10	16	17	6			
QPCR blood	22	28		33	34		22	20		23	32		29	13		36	19		36	16		32	31	10	32	34	5	32	35	6			
QPCR semen	25	16			8			6	8		5			3					14	5				16			5		4				

- 5 bulls tested seropositive on ELISA tests
- VNT used as confirmation test – all results negative
- Repeated ELISA testing – all following results negative
- QPCR testing on blood and semen samples – all results negative



Conclusions

- No LSD virus circulation in Croatia
- Expected level of seroprevalence in vaccinated animals
- Croatia is free from LSD

Thank you for your attention!