

# 2014 Eradication Programme for Sheep and Goat Brucellosis CROATIA

Standing Committee on Plants, Animals and Food and Feed (SCoPAFF)

June 2015



### **SHEEP AND GOAT BRUCELLOSIS HISTORY**

- Last outbreak of sheep and goat brucellosis in Croatia was in 2013<sup>th</sup> sheep herd in Lika-senj county
  - herd was not regularly tested (high risk municipality in which testing for brucellosis was mandatory)
  - Communication with human epidemiology at local level (the owner got sick)
  - herd was depopulated
- Last outbreaks before 2013 -> 2010 (Lika-senj, and Split-dalmatia counties), 6 outbreaks
- 2004 2008: sporadically (Lika-senj; Split-dalmatia; Karlovac county)
- Problem moslty based on illegal movements... (herds depopulated)



#### **Testing strategy before 2014**

- Laboratory investigation of **all reported abortions** in sheep and goats (abortion reporting was mandatory)
- Mandatory testing of male animals before use for breeding or introduction into the herd
- Before 2012 testing has been performed in municipalities with high risk because of previous outbreaks (2006 - 2010)
- Granting of officially free statuses started in 2012 for all dairy and mixed sheep and goat herds
- $2012 2013 \rightarrow about 80.000$  animals have been tested, both years



- For the first time whole sheep & goat population in Croatia was under the programme (600.000 sheep, 70.000 goats), about 20.000 herds
- Maintenance of OF status in previously OF herds (dairy and mixed herds tested in 2012 and 2013)
- Granting OF status for all remaining herds
- 1<sup>st</sup> test in autumn 2014 (September December)
- ➢ 2<sup>nd</sup> test ongoing (April September 2015)
- Laboratory investigation of all reported abortions



- $\triangleright$  Raising awareness among owners about sheep and goat brucellosis and importance of reporting abortions – distribution of educational materials to owners during testing in 2013 and 2014
- > Premovement testing in the whole country animals have to be two between OF here side and the second and the koza starijih od 6 UZROČNIK SE IZLUČUJE:

ISCJETKOM IZ MATERNICE

iz maternice.

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MLIJEKOM

Najznačajnije širenje infekcije odvija

se u vrijeme pobačaja ili normalnog poroda zaražene životinje jer se

Pozoua zarazente zivotnije jet u velika količina bakterija nalazi u

Posteljici, fetalnoj tekućini i iscjetku

obzirom na važnost otkrivanja i

sprećavanja širenja bruceloze ovaca i koza

Uprava za veterinarstvo i sigurnost hrane

Program nadziranja i iskorjenjivanja

bruceloze ovaca i kosa u Republici Hrvatskoj u 2014.g.

Ministarstva poljoprivrede provodi:



Brucella melitensis. Ova bakterija je iznimno Patogena za ljuđe i uzrokuje bolest koja se često naziva Malteška groznica. Malteška groznica je jedna od najozbiljnijih bolesti koje se prenose s životinja na ljude

Nacionalni referentni laboratorij za Hrvatski veterinarski institut - Zagreb Laboratorij za bakterijske zoonoze i molekularnu dijagnostiku bakterijskih Savska cesta 143, pp 183, 10 000 Zagreb CILJ PROVODENJA PROGRAMA: otkrivanje i iskorjenjivanje bruceloze zaštita zdravlja ljudi ostvarivanje uvjeta za dodjelu statusa "Stado službeno slobodno od bruceloze (B.melitensis)4 krajnji cilj je ostvariti <u>status cijele</u> Republike Hrvatske kao zemlje slusbeno slobodne od bruceloze Ostvarenje krajnjeg cilja, statusa zemlje službeno slobodne od bruceloze ovaca j koza (B melitensis) važno je s zdravstvenog i ekonomskog stajališta, jer se podiže zdravstveni status populacije ovaca i koza u

2/2



### **RESULTS IN 2014**

	Total herds	Tested (%)	Positive herds	Total animals	Tested (%)	Positive animals
2014	20 176	15605 (77,3 %)	25 (0,12 %)	670 372	462 891 (69,05 %)	30 (0,004 %)

Laboratory investigation of abortions:

- ➢ Number of reported abortions: 395
- Bacteriologicaly investigated samples: 104
- Brucella sp. was not isolated



- > All animals positive on **RBT** have been retested (**CFT**)
- In case that more than 5 % of animals in the herd were positive on RBT, whole herd tested with CFT
- All animals positive on CFT -> culled and sampled for bacteriological investigation



#### Location of **CFT positive herds** :



25 herds
30 animals
(29 sheep and 1 goat)

	Number of				
County	animals tested in the herd	CFT positive animals	County	Number of animals tested in the herd	CFT positive animals
	90	2		97	1
	20	1	Zagreb county		
Sisak Moslavina	28	1		14	1
County	10	1	Osijek baranja County	414	2
	15	1		117	1
	5	1	Vukovar srijem County	63	1
	5	2		10	1
	76	1	County	129	1
Lika senj county	146	1		85	1
county	359	1	Virovitica podravina County	114	2
	9	1	Bjelovar bilogora	41	1
Požega slavonia county	10	2	County		
county	18	1			
	6	1	Zadar county	110	1



- All measures are financed from the state budget (except premovement testing)
- Sampling performed by authorised veterinarians
- Laboratory testing performed by the Croatian veterinary institute (CFT only in NRL)
- Cost of sheep & goat brucellosis programme in 2014
   2.3 mil €



## **OFFICIALLY FREE HERDS**

#### December 31<sup>st</sup> 2014

- 720 OF herds (dairy herds), tested in previous years (2012, 2013, 2014)
- All other herds are in the process (2<sup>nd</sup> test is ongoing, under 2015 programme)... interval 6 – 12 months between 2 tests

#### **2015 (and 2016)**

- On December 31 2015, at least 80% of herds should be able to get OF status
- Additional efforts to increase testing coverage
- Continuing education and communication with the owners



### **TASK FORCE MEETING - 2015**

- June 17th 18th, Split, Croatia
- > Brucellosis subgroup... TF team of experts

## Thank you for your attention!