



# BTD vaccination in Croatia in 2015

Ministry of Agriculture  
Veterinary and Food Safety Directorate  
ScPAFF, March 5-6, 2015

# BTD cases in January/February

## January:

6 outbreaks – 3 in Dubrovnik neretva county (goat, cattle)  
- 3 in Split dalmatia county (sheep, cattle)

Serotype 4

## February:

4 outbreaks in Split dalmatia county (sheep)

Serotype 4

# Vaccination

Started on February 2<sup>nd</sup> and should be finalised by April 30<sup>th</sup>

**Goal** – to vaccinate all ruminant population 2 times (booster dose after 21 day)

- 457 000 bovine animals & 667 000 sheep and goats

**app 1 120 000 animals**

**Bluevac vaccine!**



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**C** OMPARATIVE  
**I** MMUNOLOGY  
**M** ICROBIOLOGY &  
**I** NFECTIONOUS  
**D** ISEASES

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## Vaccines against bluetongue in Europe

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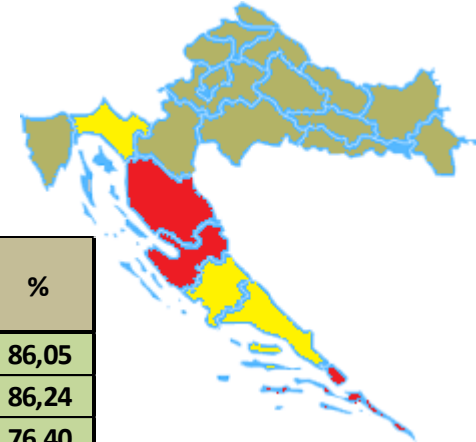
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*„In particular, the analysis*

*performed by Giovannini et al. [61] indicates that when more than 80% of the susceptible population in the territory of origin was vaccinated, the risk associated with the movement of vaccinated animals to free areas appeared acceptable and could further be mitigated by ancillary control measures.”*

>80 %	<i>satisfactory</i>
60%-80%	<i>still some place for improving</i>
<60%	<i>not satisfactory</i>

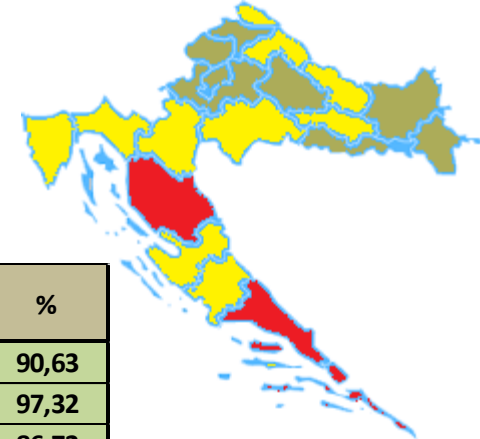
## Results of vaccination per county - cattle



No.	County	Total no. of holdings	No. of holdings covered	%	Total no. of cattle	No. of vaccinated cattle	%
1	Bjelovar - bilogora county	4011	3646	<b>90,90</b>	71707	61702	<b>86,05</b>
2	Brod - posavina county	1073	969	<b>90,31</b>	14157	12209	<b>86,24</b>
3	City of Zagreb	546	458	<b>83,88</b>	3521	2690	<b>76,40</b>
4	Dubrovnik-Neretva county	233	57	<b>24,46</b>	1802	593	<b>32,91</b>
5	Istra county	965	846	<b>87,67</b>	8652	6948	<b>80,31</b>
6	Karlovac county	2190	1922	<b>87,76</b>	16695	13510	<b>80,92</b>
7	Koprivnica - križevci county	4113	3726	<b>90,59</b>	70017	59668	<b>85,22</b>
8	Krapina-zagorje county	2780	2736	<b>98,42</b>	10335	9620	<b>93,08</b>
9	Lika - senj county	1826	1139	<b>62,38</b>	12700	5862	<b>46,16</b>
10	Međimurje county	661	615	<b>93,04</b>	11087	9759	<b>88,02</b>
11	Osijek-baranja county	1705	1644	<b>96,42</b>	82200	74305	<b>90,40</b>
12	Požega - slavia county	721	627	<b>86,96</b>	12013	9986	<b>83,13</b>
13	Primorje - gorski kotar county	306	235	<b>76,80</b>	1506	1169	<b>77,62</b>
14	Sisak-moslavina county	2550	2252	<b>88,31</b>	29091	23713	<b>81,51</b>
15	Split - dalmatia county	1501	1037	<b>69,09</b>	6787	4100	<b>60,41</b>
16	Šibenik -knin county	771	473	<b>61,35</b>	4337	2720	<b>62,72</b>
17	Varaždin county	1297	1167	<b>89,98</b>	8976	7477	<b>83,30</b>
18	Virovitica - podravina county	982	814	<b>82,89</b>	15914	12972	<b>81,51</b>
19	Vukovar - srijem county	1395	1296	<b>92,90</b>	30458	27003	<b>88,66</b>
20	Zadar county	433	194	<b>44,80</b>	4871	2585	<b>53,07</b>
21	Zagreb county	4112	3835	<b>93,26</b>	41688	35453	<b>85,04</b>
<b>TOTAL</b>		<b>34171</b>	<b>29688</b>	<b>86,88</b>	<b>458514</b>	<b>384044</b>	<b>83,76</b>

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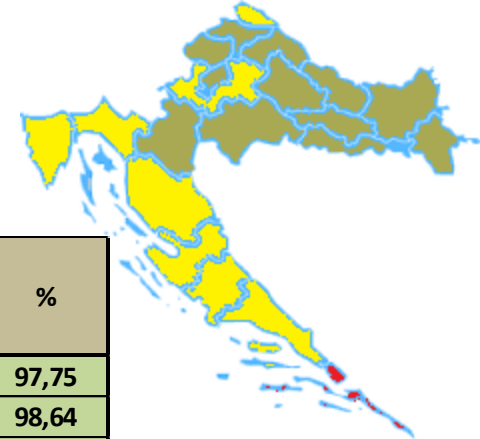
## Results of vaccination per county - goats



No.	County	Total no. of holdings	No. of holdings covered	%	Total no. of animals	No. of vaccinated goats	%
1	Bjelovar - bilogora county	2525	222	<b>8,79</b>	3203	2903	<b>90,63</b>
2	Brod - posavina county	632	138	<b>21,84</b>	896	872	<b>97,32</b>
3	City of Zagreb	88	49	<b>55,68</b>	369	320	<b>86,72</b>
4	Dubrovnik-Neretva county	260	22	<b>8,46</b>	1425	343	<b>24,07</b>
5	Istra county	740	263	<b>35,54</b>	3334	2482	<b>74,45</b>
6	Karlovac county	1094	138	<b>12,61</b>	1749	1334	<b>76,27</b>
7	Koprivnica - križevci county	788	135	<b>17,13</b>	2486	1983	<b>79,77</b>
8	Krapina-zagorje county	388	112	<b>28,87</b>	633	592	<b>93,52</b>
9	Lika - senj county	1898	47	<b>2,48</b>	1958	1160	<b>59,24</b>
10	Međimurje county	108	55	<b>50,93</b>	3915	3054	<b>78,01</b>
11	Osijek-baranja county	1172	299	<b>25,51</b>	2044	1938	<b>94,81</b>
12	Požega - slavonia county	804	90	<b>11,19</b>	1044	664	<b>63,60</b>
13	Primorje - gorski kotar county	894	110	<b>12,30</b>	1443	1001	<b>69,37</b>
14	Sisak-moslavina county	2265	237	<b>10,46</b>	3438	2243	<b>65,24</b>
15	Split - dalmatia county	1480	364	<b>24,59</b>	13287	7583	<b>57,07</b>
16	Šibenik -knin county	1404	310	<b>22,08</b>	7021	4993	<b>71,12</b>
17	Varaždin county	263	141	<b>53,61</b>	4585	4520	<b>98,58</b>
18	Virovitica - podravina county	1014	167	<b>16,47</b>	1504	1185	<b>78,79</b>
19	Vukovar - srijem county	658	222	<b>33,74</b>	1185	1063	<b>89,70</b>
20	Zadar county	2017	239	<b>11,85</b>	13657	8941	<b>65,47</b>
21	Zagreb county	969	204	<b>21,05</b>	2273	1922	<b>84,56</b>
<b>TOTAL</b>		<b>21461</b>	<b>3564</b>	<b>16,61</b>	<b>71449</b>	<b>51096</b>	<b>71,51</b>

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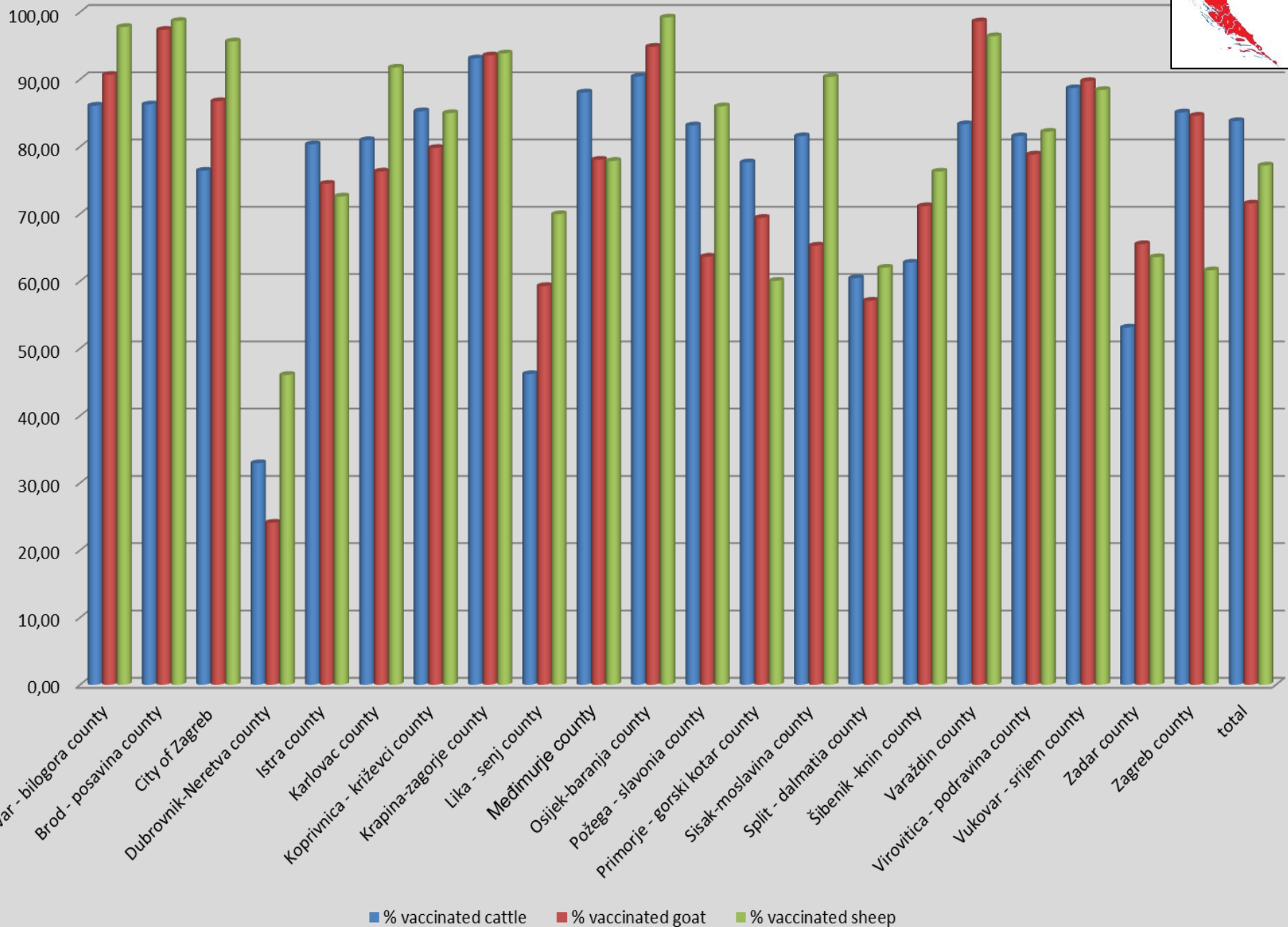
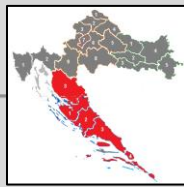
## Results of vaccination per county - sheep



No.	County	Total no. of holdings	No. of holdings covered	%	Total no. of animals	No. of vaccinated sheep	%
1	Bjelovar - bilogora county	2525	2255	<b>89,31</b>	55810	54553	<b>97,75</b>
2	Brod - posavina county	632	501	<b>79,27</b>	9962	9827	<b>98,64</b>
3	City of Zagreb	88	46	<b>52,27</b>	2161	2066	<b>95,60</b>
4	Dubrovnik-Neretva county	260	60	<b>23,08</b>	4213	1939	<b>46,02</b>
5	Istra county	740	490	<b>66,22</b>	18095	13128	<b>72,55</b>
6	Karlovac county	1094	921	<b>84,19</b>	23224	21301	<b>91,72</b>
7	Koprivnica - križevci county	788	597	<b>75,76</b>	10272	8726	<b>84,95</b>
8	Krapina-zagorje county	388	275	<b>70,88</b>	2961	2778	<b>93,82</b>
9	Lika - senj county	1898	1225	<b>64,54</b>	69030	48269	<b>69,92</b>
10	Međimurje county	108	28	<b>25,93</b>	641	499	<b>77,85</b>
11	Osijek-baranja county	1172	936	<b>79,86</b>	37899	37580	<b>99,16</b>
12	Požega - slavonia county	804	631	<b>78,48</b>	20585	17694	<b>85,96</b>
13	Primorje - gorski kotar county	894	502	<b>56,15</b>	31542	18931	<b>60,02</b>
14	Sisak-moslavina county	2265	1846	<b>81,50</b>	39236	35443	<b>90,33</b>
15	Split - dalmatia county	1480	610	<b>41,22</b>	44408	27521	<b>61,97</b>
16	Šibenik -knin county	1404	835	<b>59,47</b>	57961	44202	<b>76,26</b>
17	Varaždin county	263	167	<b>63,50</b>	2371	2285	<b>96,37</b>
18	Virovitica - podravina county	1014	818	<b>80,67</b>	22541	18525	<b>82,18</b>
19	Vukovar - srijem county	658	421	<b>63,98</b>	16330	14433	<b>88,38</b>
20	Zadar county	2017	1234	<b>61,18</b>	100382	63768	<b>63,53</b>
21	Zagreb county	969	716	<b>73,89</b>	25265	15560	<b>61,59</b>
<b>TOTAL</b>		<b>21461</b>	<b>15114</b>	<b>70,43</b>	<b>594889</b>	<b>459028</b>	<b>77,16</b>

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# Results of BTD vaccination in Croatia (Feb. 2015)



Thank you for attention