HOW TO PERFORM STRAY DOG SURVEY

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• Food and veterinary agency of the Republic of Macedonia with support of the RSPCA conducted a Stray dog survey projects in Skopje, Tetovo and Gostivar according to the WSPA methodology.
The purpose of the survey is to estimate the size of stray dog population within the city limits and to estimate the animal welfare status of the animals as well.

Also, the survey of public opinion toward dogs is performed.
The survey was conducted according to the WSPA guidelines and it is consisted from two elements:

- Direct observation
- Research on public opinion
• Key elements of the survey:
• Trained and reliable volunteers
• Map of the city/4 color markers
• Printed maps of the wards
• Check lists
• Proper data analysis
• The counting was performed in May 2010 and 2014 in Skopje, Tetovo in October 2013 and Gostivar in March 2014

• The direct observation is performed early morning between 05:00 and 09:00 when the dogs is most active.

• It must be continuous/according to the weather conditions (rain-that day no counting)
Skopje

- Territory of the city divided in 100 wards
- Direct counting performed into 24 wards
- The direct counting was performed by 6 volunteers-Students from Veterinary faculty Skopje divided into 3 teams
Maps of the wards
• Direct observation-The volunteers were provided with the map of the ward and with a relevant check list
• Public opinion research-interview questionnaire/if it is possible engage professional marketing research company (Skopje 2010)
Check list for direct observation
Following parameters were noticed during the direct observation:

- Sex (male, female, puppies)
- Does the dog have an ear tag or collar
- Body score condition
- Lameness
- Skin lesions
<table>
<thead>
<tr>
<th>Male</th>
<th>Female NOT lactating</th>
<th>Female Lactating</th>
<th>Adult sex unknown</th>
<th>Puppie</th>
<th>Eartag</th>
<th>Collar (without owner)</th>
<th>Collar (with owner)</th>
<th>Body score condition</th>
<th>Lameness</th>
<th>Skin lesions</th>
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Data Analysis/calculation according to WSPA manual
• 2010 estimation in figures:
Males: 54%
Females (non-lactating): 30%
Females (lactating): 3%
Adults sex unknown: 6%
Puppies: 7%
% of stray dogs/collar/ear tag

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Stray dogs 66%

Ear tag 23%

Collar (with owner) 8%

Collar (without owner) 3%
Welfare indicators

- Lameness: 4%
- Skin lesions: 4%
- Without lesions or lameness: 92%
Body score condition

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1% 5
4% unknown
9% 2
73%
Monitoring/Control survey

• In 2014 exact same survey was performed and the results of the comparative analysis is following:
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**ESTIMATED NUMBER OF DOGS**

- **SKOPJE 2010**
  - Counted dogs: 586
  - Estimated number of dogs: 2442
  - Upper limit: 2915
  - Lower limit: 1969

- **SKOPJE 2014**
  - Estimated number of dogs: 1883
  - Upper limit: 2309
  - Lower limit: 1357
According to the counted dogs, 586 in 2010 and 440 in 2014, there is 25% decrease of the number of dogs in city of Skopje.
According to the counted dogs which is neutered, vaccinated and released there is 17% increase of CNVR dogs in city of Skopje in 2014 compared to 2010.
Case study Gostivar

Public opinion survey
51 interviews performed
Volunteers/research company supplied with the questionnaire
Data analysis/results
% of households that keep dogs

- Keep dog: 27%
- Don’t keep dog: 73%
Type of structure of housing unit

- house with yard: 79%
- house without yard: 14%
- apartment in a building: 7%
Stray dog population survey-Gostivar

Did citizens of Gostivar feed the stray dogs

- Yes: 18%
- No: 82%
Did dog bite you in past 12 months

- Yes: 6%
- No: 94%
Type of the dog that bite you in %

- Owned dog
- Neighbor dog
- Unowned dog in the community
- Stray dog
- Unknown dog

Series 1
Attitudes of the citizens of Gostivar
keeping dogs is a waste of money

1-strongly disagree  2-moderately disagree  3-slightly disagree  4-unsure  5-slightly agree  6-moderately agree  7-strongly agree

14  29  12  8  12  22  4
I like dogs very much
Chart Title

<table>
<thead>
<tr>
<th>1-strongly disagree</th>
<th>2-moderately disagree</th>
<th>3-slightly disagree</th>
<th>4-unsure</th>
<th>5-slightly agree</th>
<th>6-moderately agree</th>
<th>7-strongly agree</th>
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dogs should always be kept out of the house
I don’t like being close to dogs
I don’t want to be near to dogs which have skin lesions

- 1-strongly disagree
- 2-moderately disagree
- 3-slightly disagree
- 4-unsure
- 5-slightly agree
- 6-moderately agree
- 7-strongly agree
if a female dog of mine had a litter of puppies I don’t want to keep them
municipality should take care of the stray dogs
Welfare of the stray dogs is very important to me
Food and Veterinary Agency

Chart Title

Series 1

<table>
<thead>
<tr>
<th>Response Level</th>
<th>Count</th>
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<td>2-moderately disagree</td>
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<td>3-slightly disagree</td>
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<td>4-unsure</td>
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<td>5-slightly agree</td>
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<td>6-moderately agree</td>
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<td>7-strongly agree</td>
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people should not feed the stray dogs
I don’t mind to have stray dogs on mine street
Stray dogs pose a danger to the people
stray dogs should not be allowed to breed
Food and Veterinary Agency

Chart Title

- Series1

<table>
<thead>
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<th>Level</th>
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<td>6-moderately agree</td>
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<td>7-strongly agree</td>
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it is not acceptable to kill stray dogs
Thank You for Your attention!

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