

# Greek rabies program 2013-2014

Department of Zoonoses, Animal Health Directorate,  
Directorate General of Veterinary Services, Ministry of Rural  
Development and Food

# Rabies monitoring and surveillance program 2013

- **Passive surveillance to the entire country!!!!**
- **Obligatory Registration of all dogs and cats in the prefectures involved in the programme.**
- **Preventive vaccination of all dogs and cats over 3 months of age in the involved prefectures by their owners.**
- **Preventive vaccination of stray dogs by the municipal authorities.**
- **Vaccination of all domestic carnivores moving into the involved areas at least 21 days before their movement.**

# Rabies monitoring and surveillance program 2013

- Notifiable disease (must be reported to the authorities).
- Practitioners in the involved areas are obliged to report any suspicious clinical case.
- In case of no immediate notification → penalties are imposed.

# Rabies monitoring and surveillance program 2012-2014

## *INVOLVED ANIMAL SPECIES*

- Wild red fox (*Vulpes vulpes*): prevailing “indicator target” of rabies presence in wildlife in Europe.
- Jackals, wolves, dogs, cats, other carnivores, cattle, goats, sheep, swine, bats.
- Any suspicious case related to human exposure.

All samples collected are forwarded to the NRL for rabies (Virology Department of Athens) for the implementation of the necessary diagnostic techniques.

# **Samples examined 2012-2014**

## **2012**

**237 samples were tested for rabies – 9 positive (2 dogs and 7 foxes)**

## **2013**

**588 samples were tested for rabies  
29 positive (1 dog, 1 cat, 2 bovine and 25 foxes)**

## **2014 (1<sup>st</sup> and 2<sup>nd</sup> trimester)**

**241 samples were tested for rabies  
10 positive (2 dogs and 5 foxes)**

FYROM

PERIJA  
(BANIA)



FLORINA

EDESSA

DIANITSA

THESSALONIKI

KASTORIA

VERIA

KATERINI

KOZANI

GREVENA

LARISSA

MITRICA

TRIKALA

KARBITSA

VOLOS

## **Red foxes vaccination campaign 2013**

The first campaign was planned in April-May 2013 but although all the appropriate procedures have taken place, tenders were canceled

The vaccination campaign October - November 2013 was successful

# Red foxes vaccination campaign

- ❖ 24 Prefectures in Greece

## Prefectures

Thesprotia, Ioannina, Grevena, Kastoria, Kozani, Florina, Imathia, Pieria, Thessaloniki, Chalkidiki, Kilkis, Pella, Serres, Preveza, Arta, Trikala, Larisa, Karditsa, Aitolioakarnania, Magnisia, Fthiotida, Evritania, Kabala, Drama

- ❖ In a 50 km radius area around the locations where positive cases are detected independently of the Prefecture



## Red foxes vaccination campaign 2013



## **Red foxes vaccination campaign 2013**

**On Average: 25 baits per km<sup>2</sup> (>20 baits per km<sup>2</sup>)**

**Total Area: 60454,60 km<sup>2</sup> (excluded: urban areas, rivers, lakes etc)**

**"Active "surveillance : Investigation of the effectiveness of vaccination: killing two foxes / 100Km<sup>2</sup> / campaign)**

**Y.A. 1766 / 52303-25.04.2013**

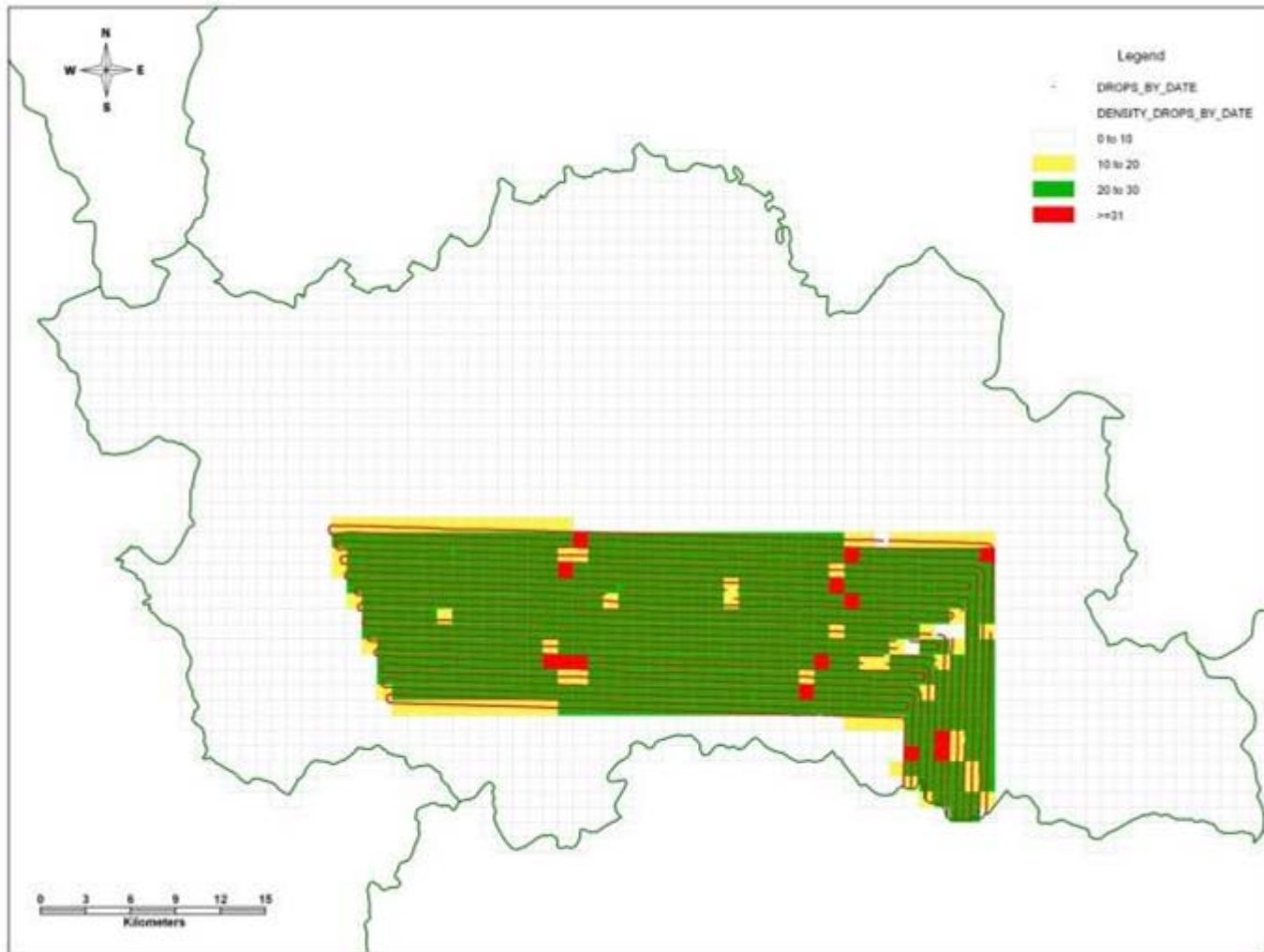
**NRL: Tetracycline detection, Serological testing**

- **Number of baits per Prefecture**

• N. XANTHIS	8030	N. TRIKALON	56770
• N. PREVEZAS	24764	N. MAGNISIAS	57344
• N. FLORINAS	25625	N. KARDITSAS	62119
• N. KASTORIAS	27034	N. PELLAS	62303
• N. AITOLOAKARNANIAS	34881	N. FTHIOTIDAS	75369
• N. PIERIAS	34894	N. CHALKIDIKIS	79843
• N. IMATHIAS	37603	N. KOZANIS	83396
• N. ARTAS	37706	N. DRAMAS	85152
• N. THESPROTIAS	39503	N. IOANNINON	85947
• N. KAVALAS	40886	N. THESSALONIKIS	99805
• N. EVRYTANIAS		43342 N. KILKIS	102217
• N. GREVENON	51299	N. SERRON	114829
• N. FOKIDAS	903	N. LARISAS	133257

- **Total number :1.503.782 baits**

# Data evaluation of dropped baits 2013

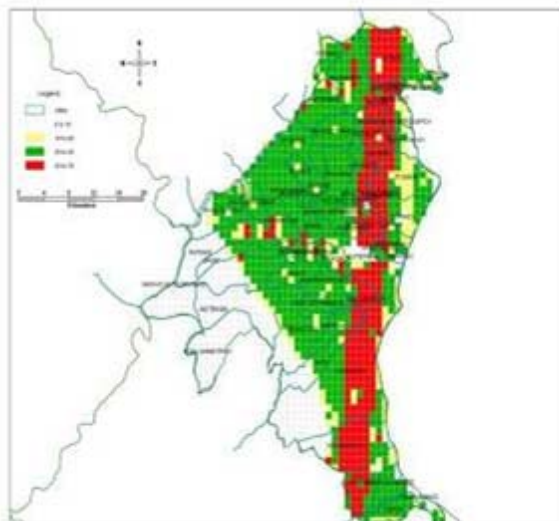


# Final evaluation for 2013

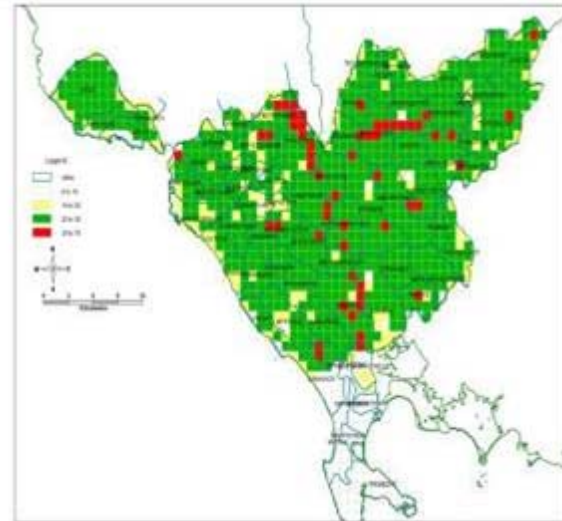
Fthiotida



Pieria



Preveza

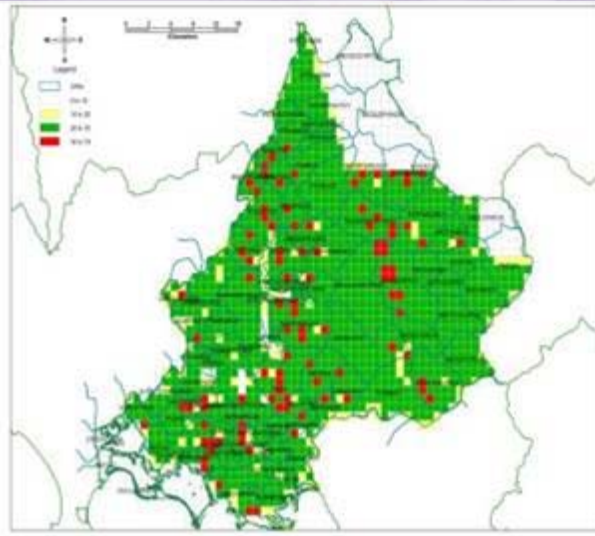
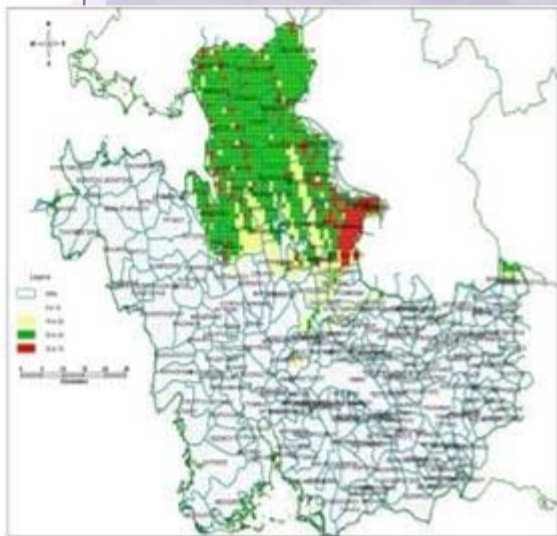


# Final evaluation for 2013

Etoloakarnania

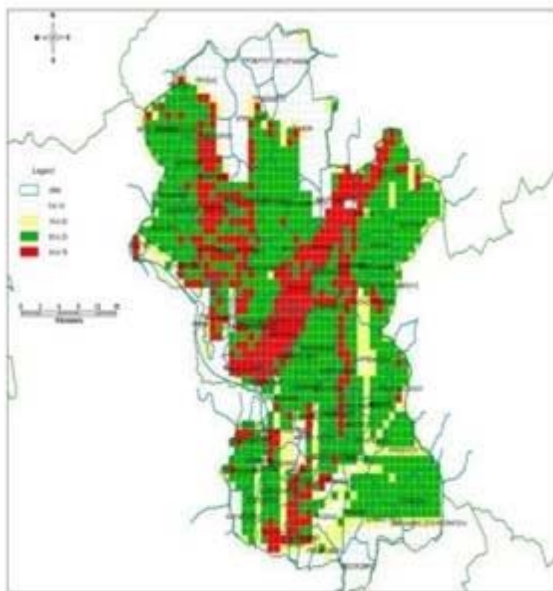
Arta

Drama



# Final evaluation for 2013

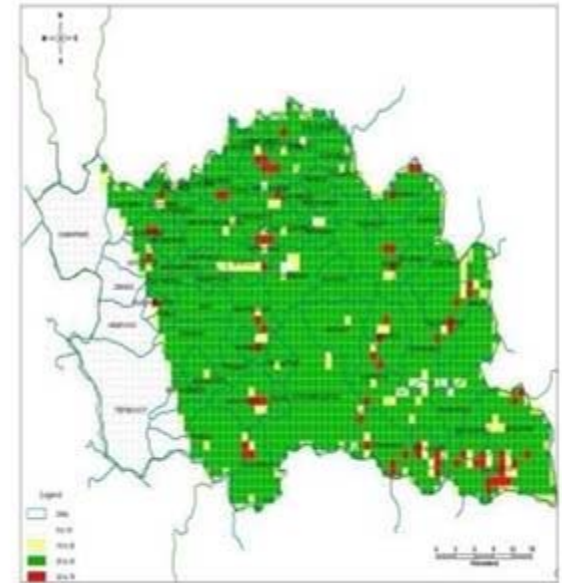
Evritania



Florina



Grevena

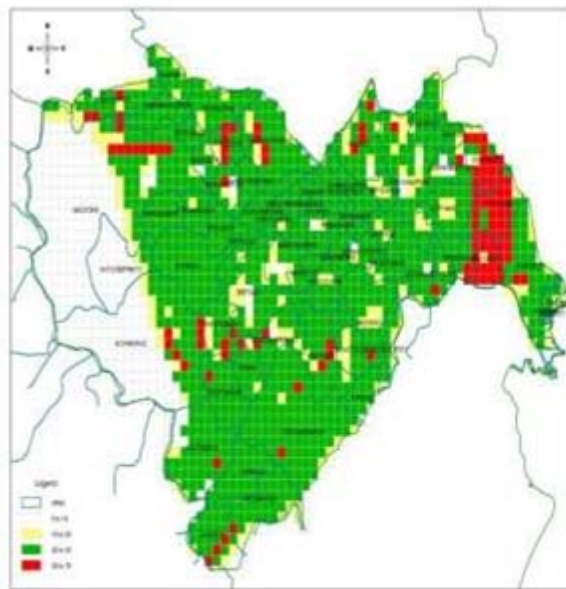


# Final evaluation for 2013

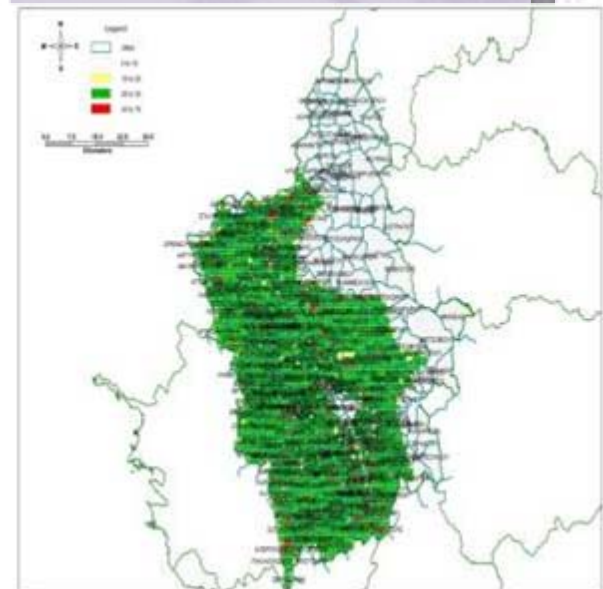
Chalkidiki



Imathia



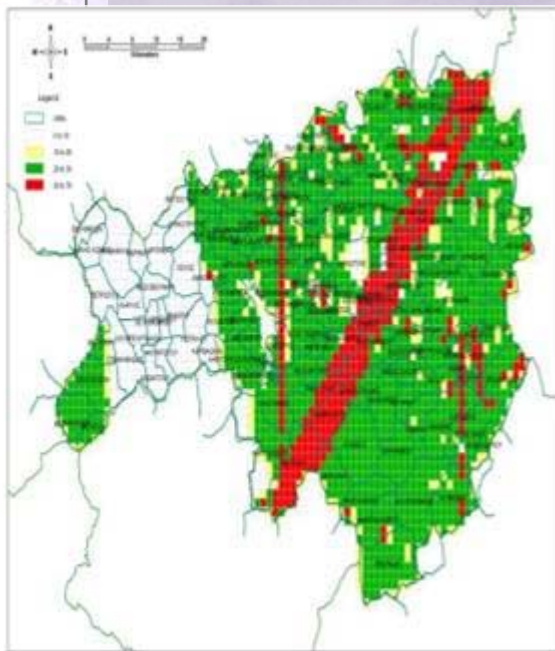
Ioannina



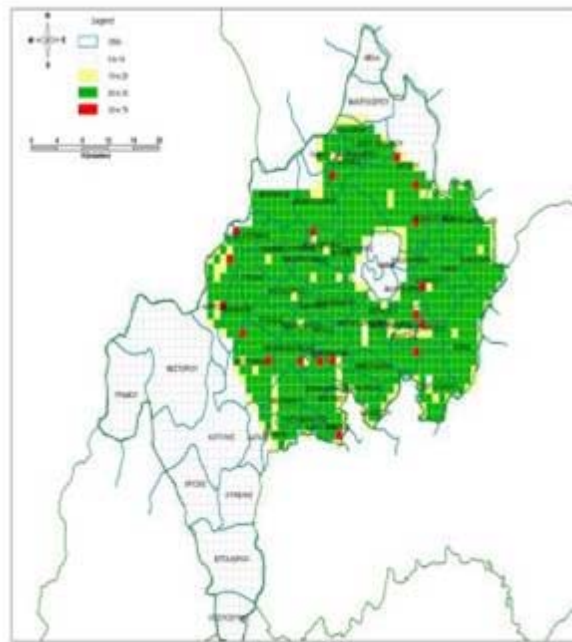


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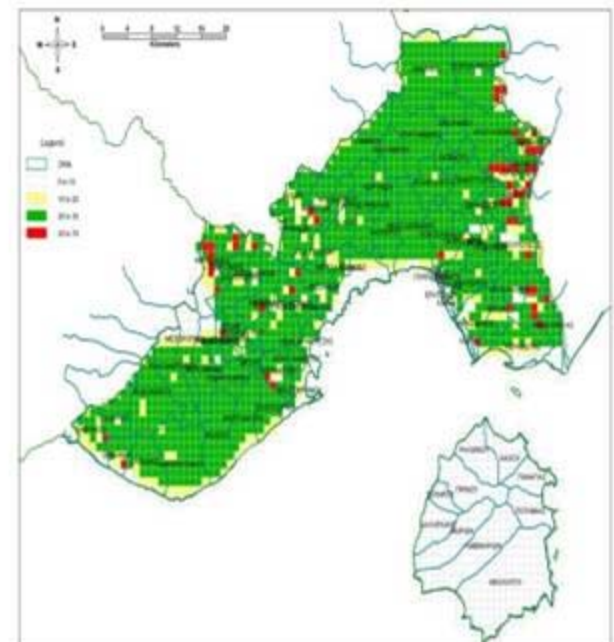
Karditsa



Kastoria

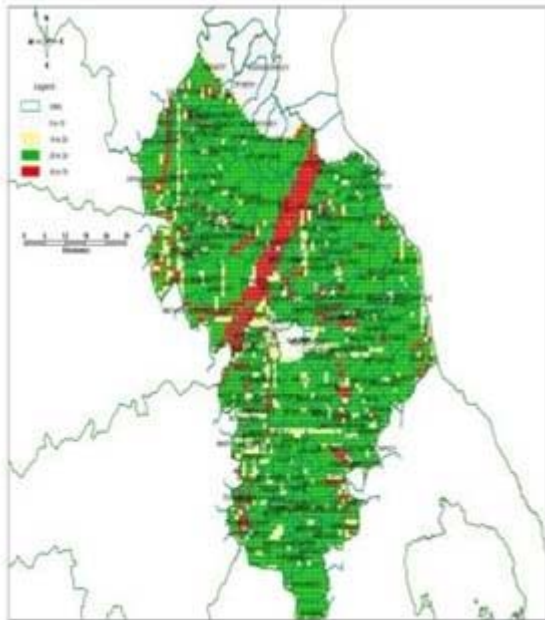


Kavala



# Final evaluation for 2013

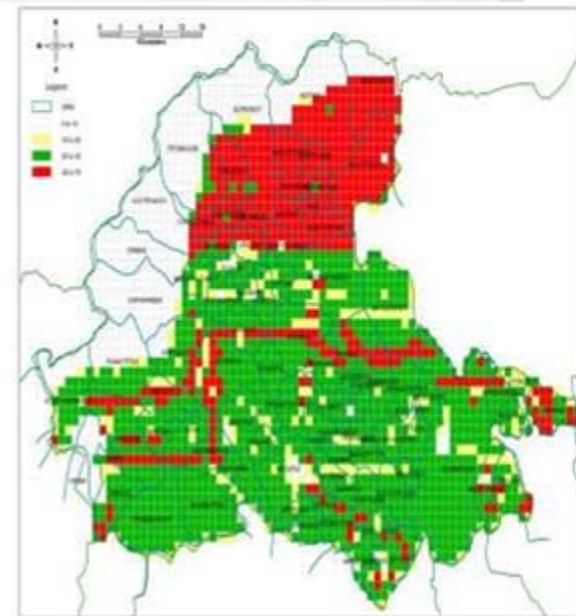
Larisa



Magnisia

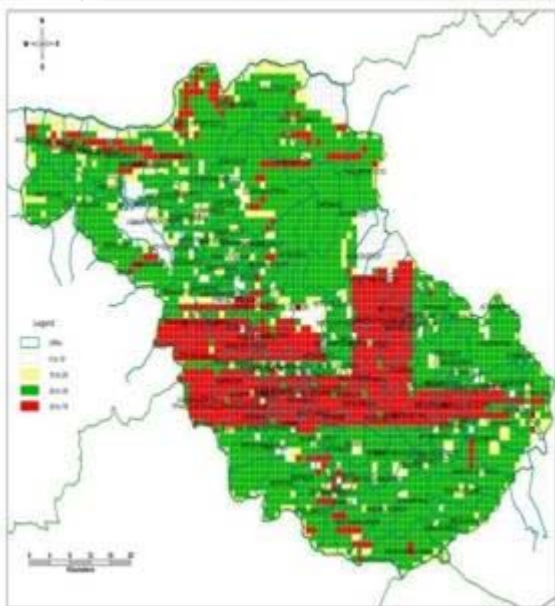


Pella



# Final evaluation for 2013

Serres



Thesprotia

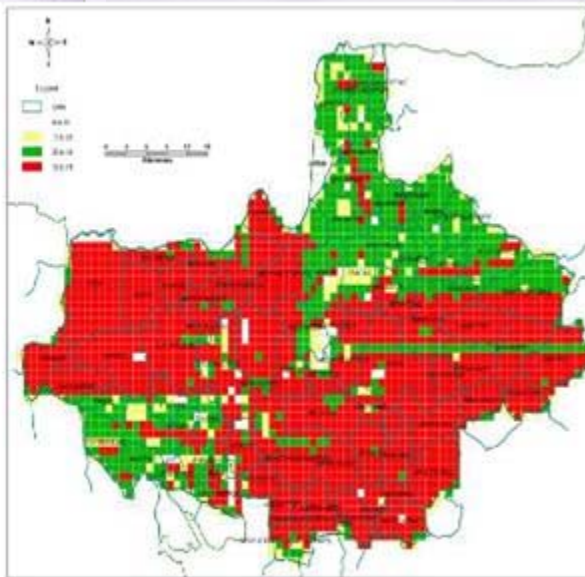


Trikala

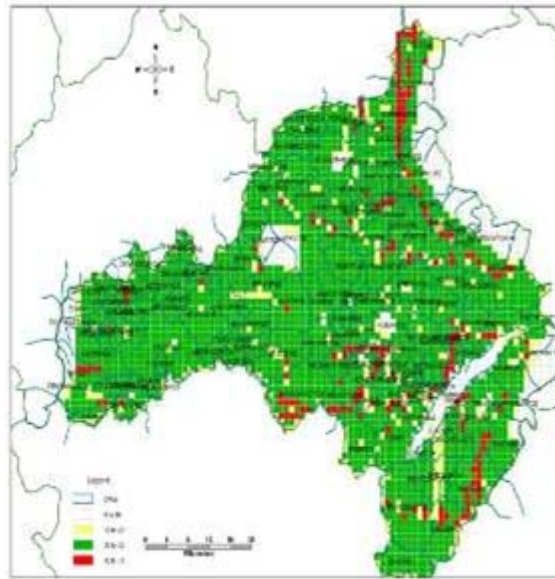


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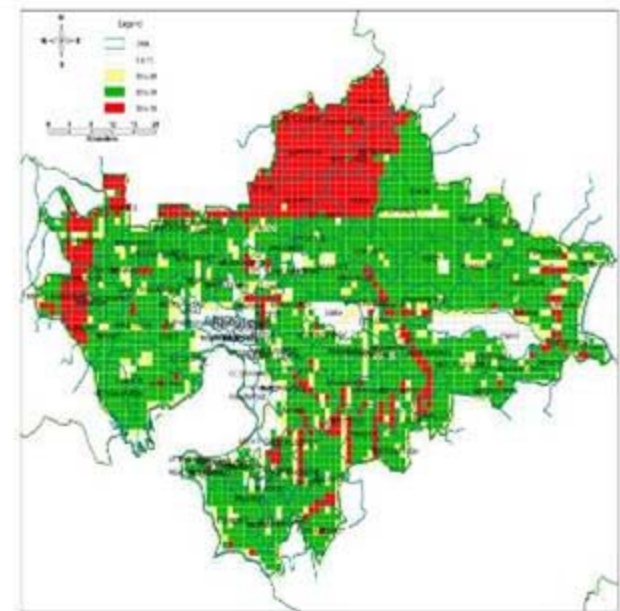
Kilkis



Kozani



Thessaloniki



- As shown from the above maps, the vaccine coverage was in general sufficient.

# Active surveillance 2013

- Within the first vaccine campaign (2013-2014) received by the Virology laboratory samples of **123 Red Foxes**.

The total number of samples of blood / serum was 121.

The total number of suitable samples jaws was 120.

**73/121** were serologically **positive animals**.

**Tetracycline** was detected **in 84/120 animals**.

# Contact

## Address:

Ministry of Rural Development and Food,  
General Directorate of Veterinary Services,  
Animal Health Division,  
Department of Zoonoses

Tel.: +30 2108836420

Fax: +30 2102125719

Email: [ka6u058@minagric.gr](mailto:ka6u058@minagric.gr)  
[koroumarilina@gmail.com](mailto:koroumarilina@gmail.com)  
[ka6u009@minagric.gr](mailto:ka6u009@minagric.gr)



**Thank you**