



**INSTITUTE of PLANT PROTECTION NAAS of UKRAINE**  
*Laboratory of Nematology*

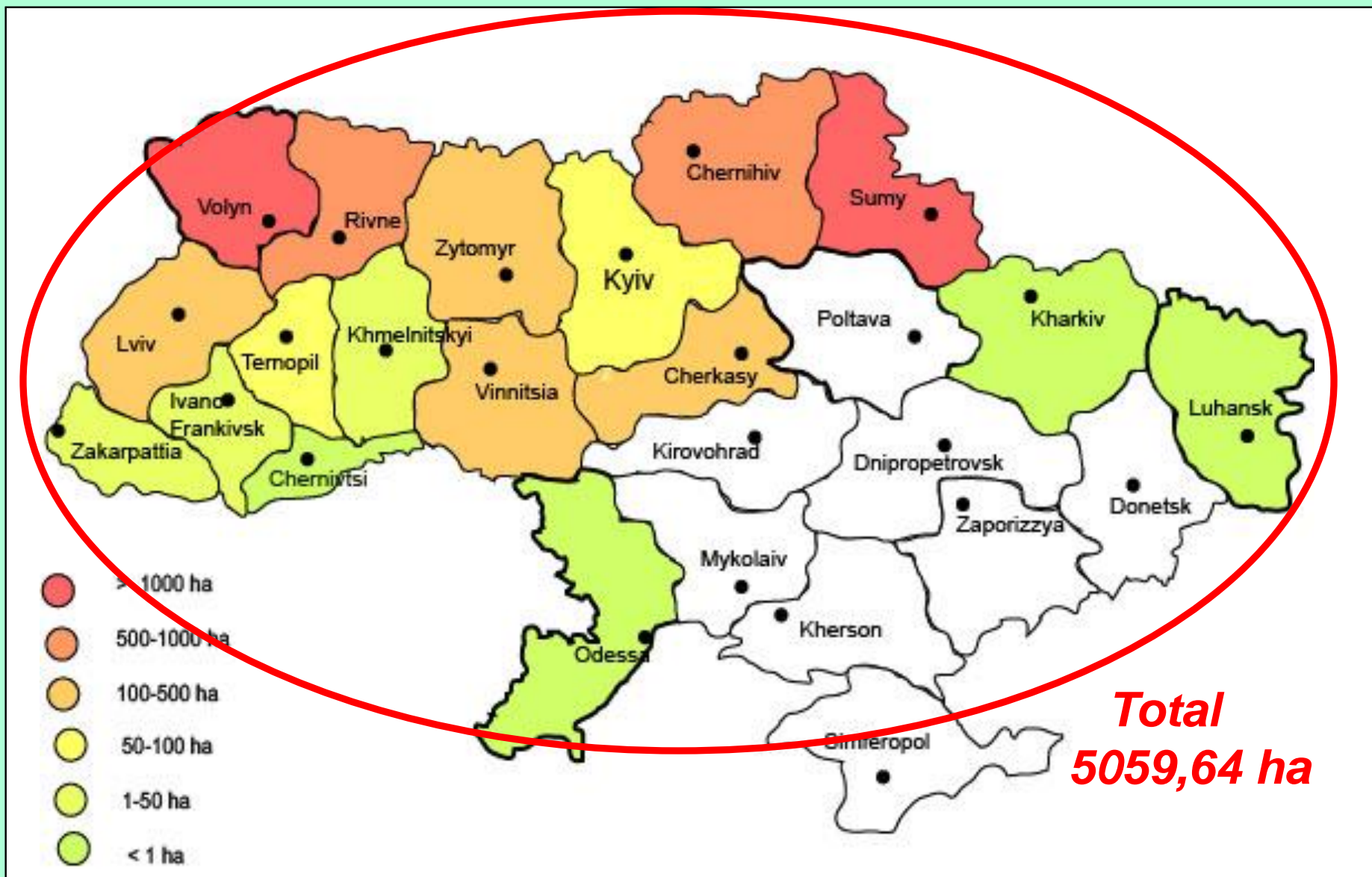
# **DISTRIBUTION OF *GLOBODERA ROSTOCHIENSIS* AND ITS CONTROL IN UKRAINE**



T.A. Galagan, D.D. Sigareva

e-mail: [galaganta@mail.ru](mailto:galaganta@mail.ru)

# Distribution of *Globodera rostochiensis* in Ukraine



# Management of *G.rostochiensis* :

- Quarantine and preventive methods;



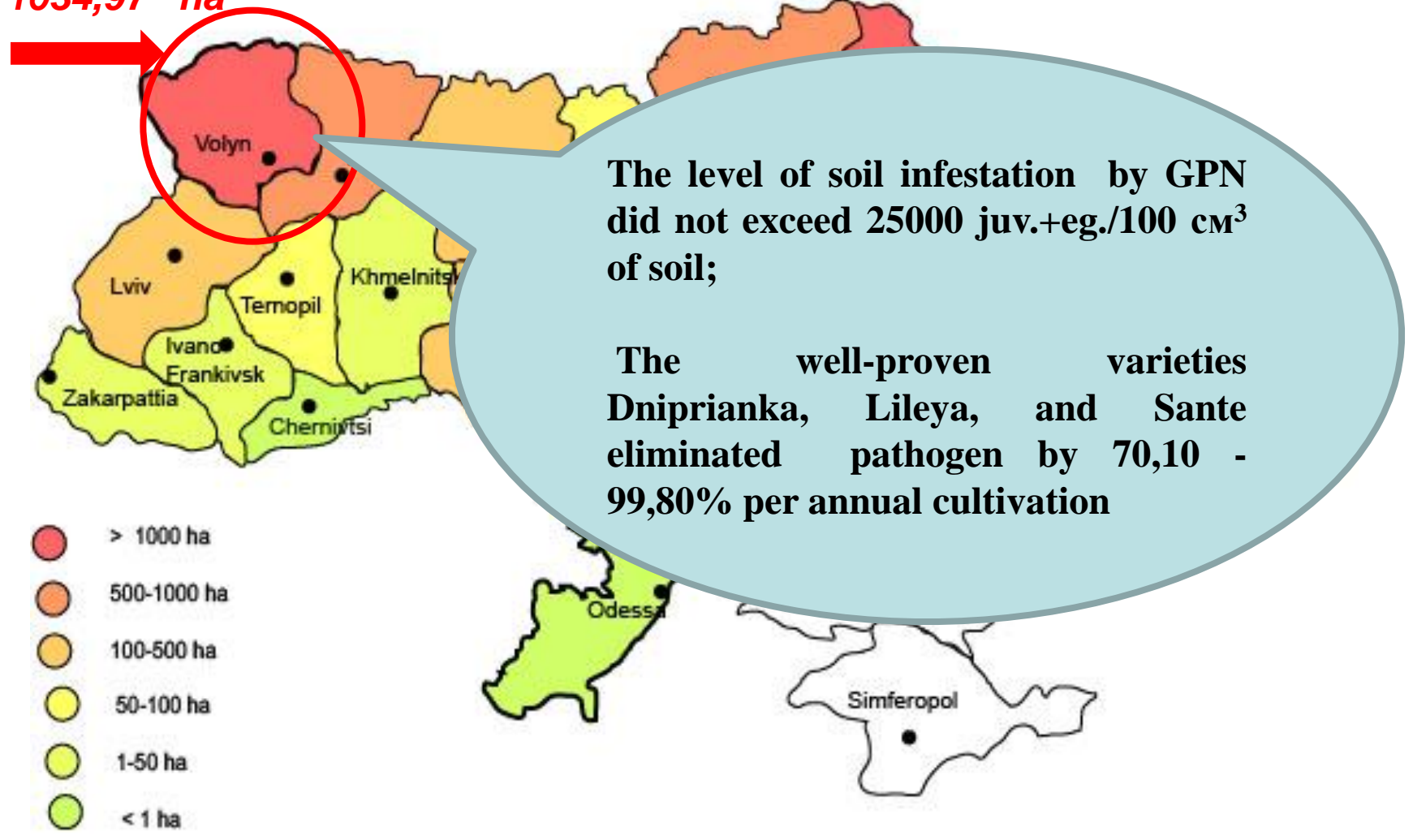
- Control:  
chemical, agrotechnical and biological methods, including use of resistant varieties.

# Control of GPN

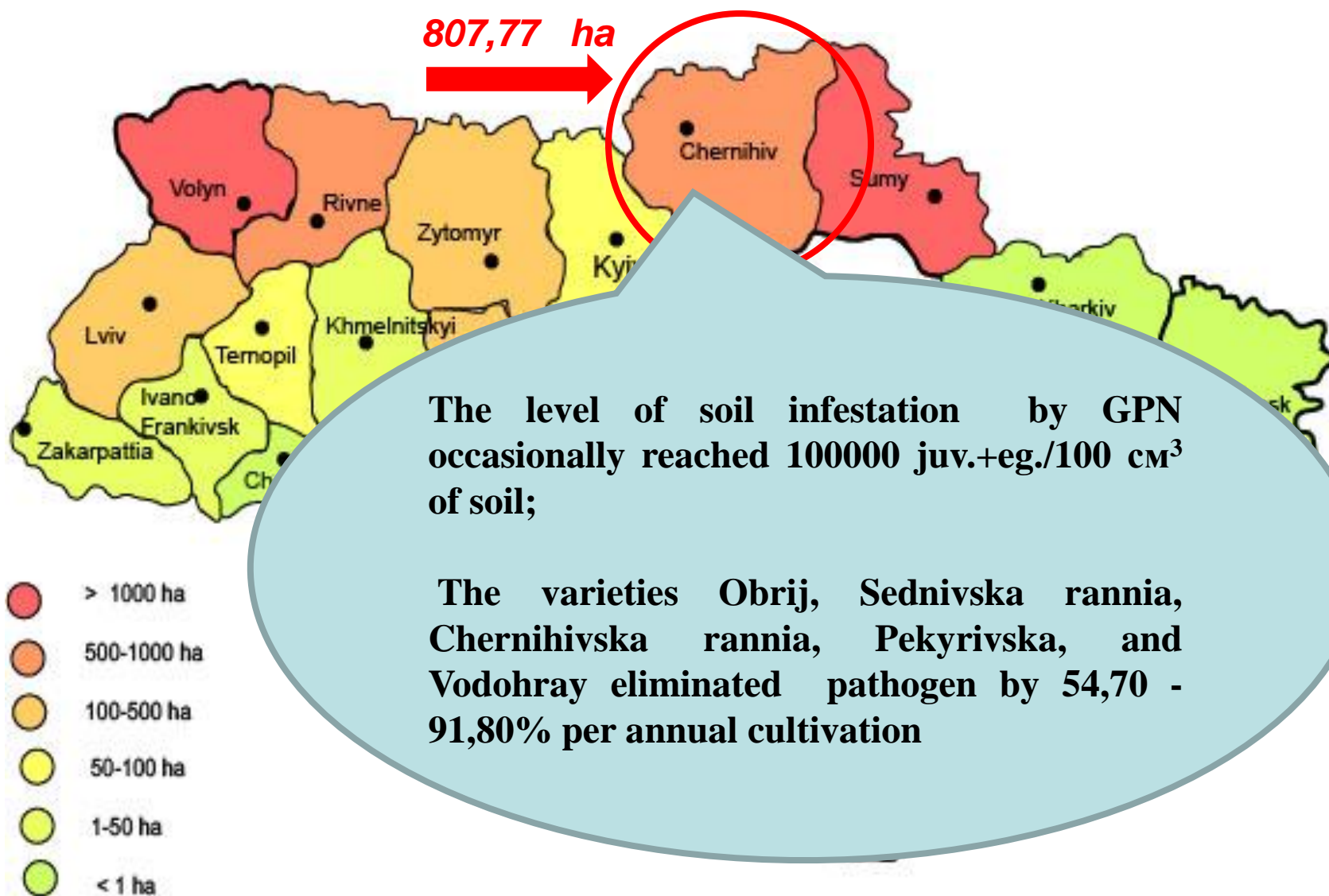
<b>Level of <i>G. rostochiensis</i> population density (j.+eg. /100 cm<sup>3</sup> of soil)</b>	<b>Measures</b>
Very low (1-500)	Annual checking of level of PCN population's density
Low (501-1000)	Annual cultivation of PCN resistant potato variety and checking the following years the level of PCN population's density
Moderate (1001-5000)	3-field crop rotation with non-host plants and resistant potato variety is recommended. Then cultivation of a susceptible variety with periodic control of level of soil infestation
High (5001-15000)	Crop rotation with non-host plants and resistant potato variety (not more than 1 time in 3-5 years)
Very high (>15000)	Crop rotation with non-host plants and resistant potato variety (not more than 1 time in 5 years) is necessary, but better – growing potatoes is not recommended for 10 years

# Resistant potato varieties against *G. rostochiensis*

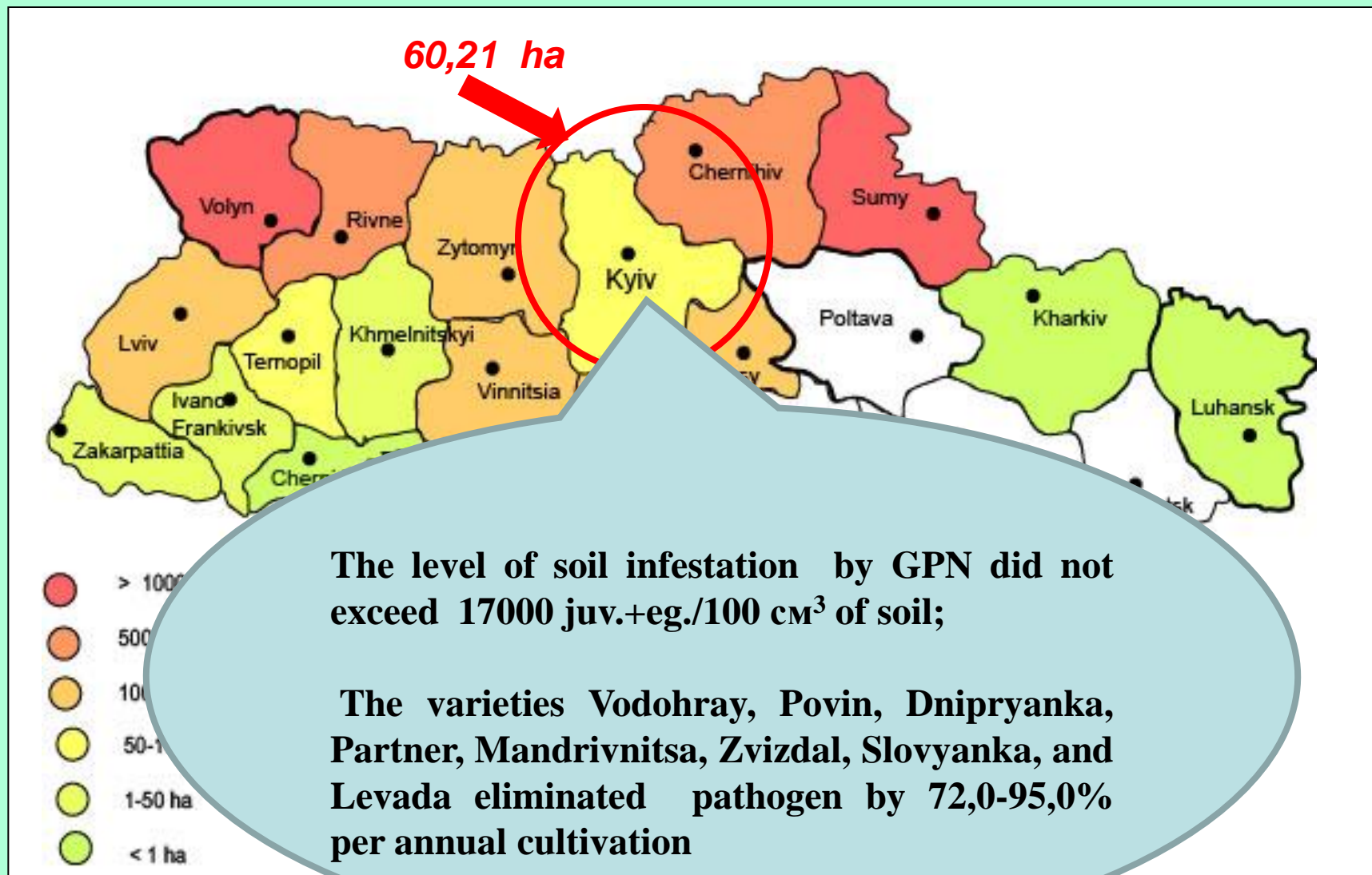
1034,97 ha



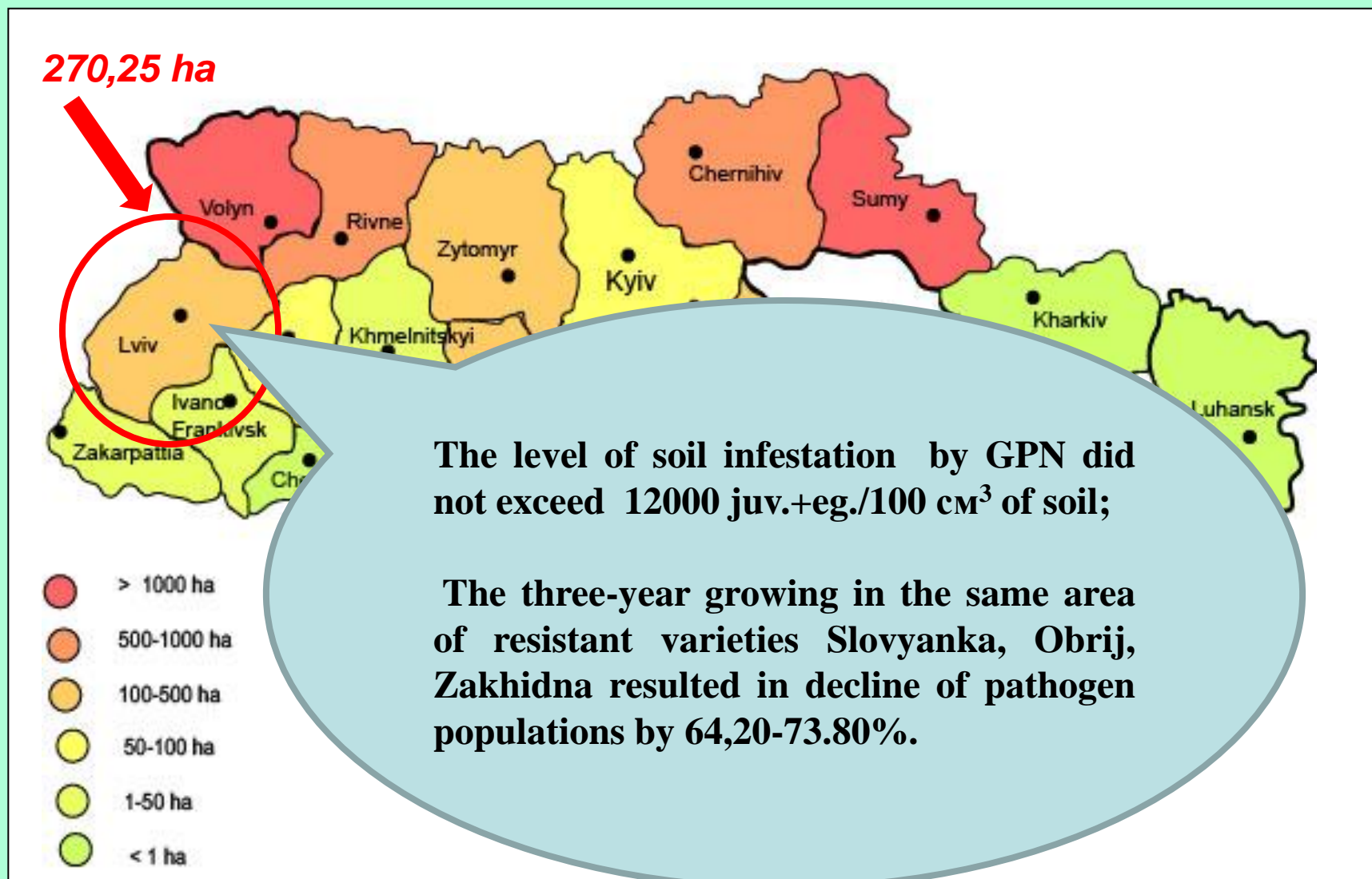
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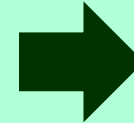
# **Crop rotation on high infested sites (Volyn region)**

**3-field system  
with small grains  
(wheat, barley )**

**5-field system  
(with 3-years  
of lucerne and  
annual – oats)**

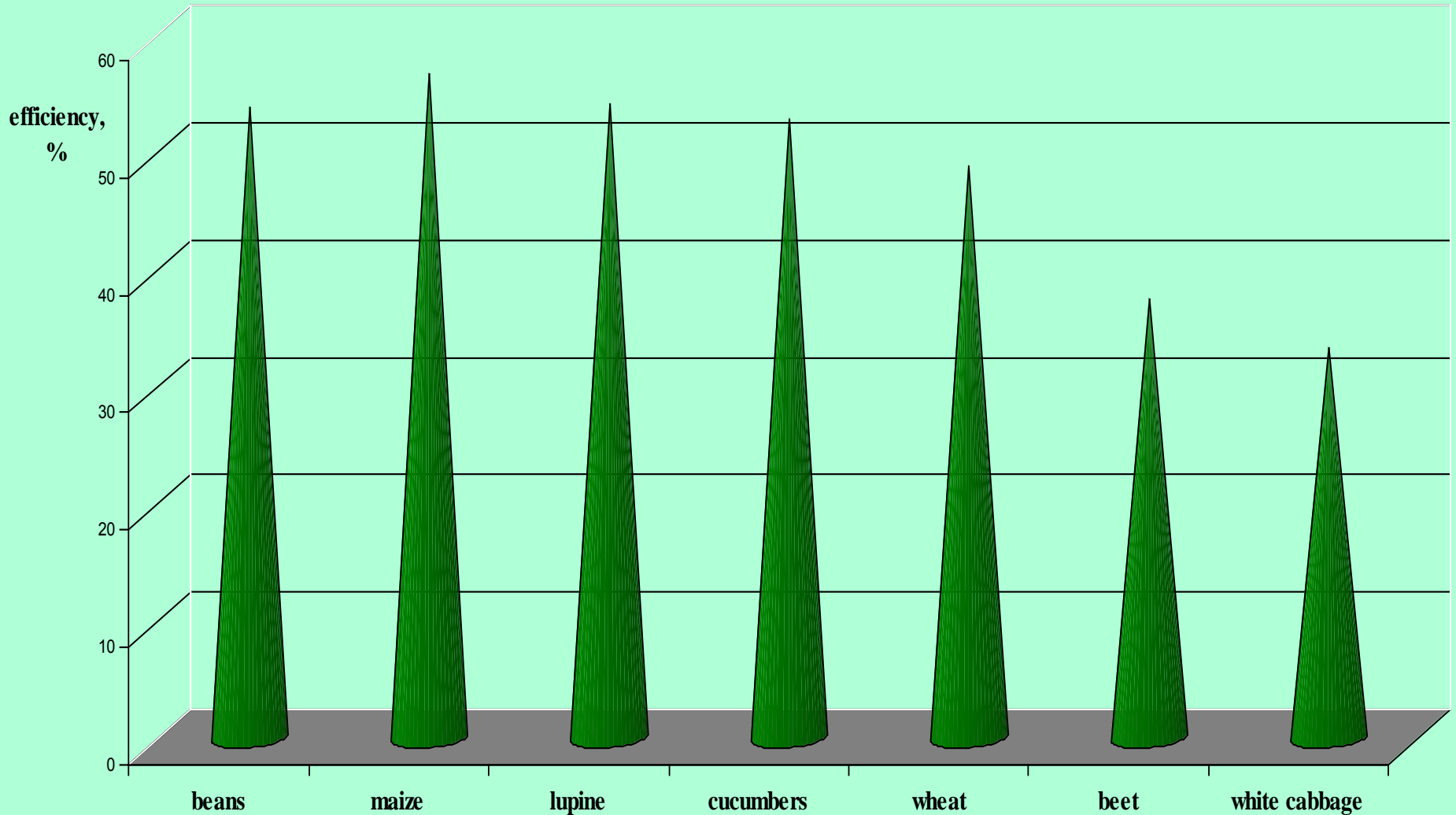


**susceptible  
potato  
variety**

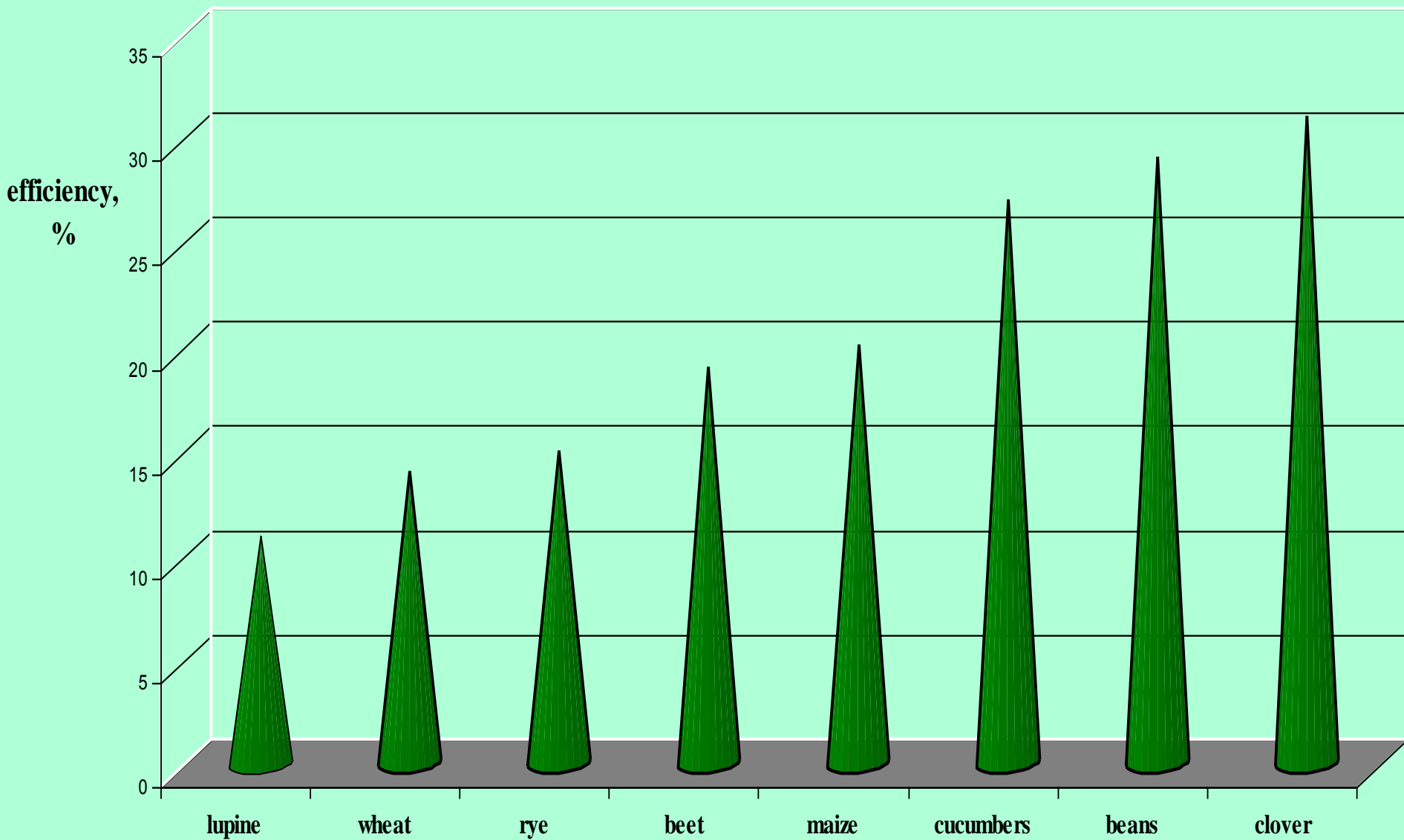


**reduced the level of  
soil infestation of GPN  
by 89-90 %**

# The average efficiency of annual growing of non-host plants (Chernihiv region)



# The average efficiency of annual growing of non-host plants (Lviv region)



*Thank you for attention!*

*Laboratory of Nematology  
Institute of Plant Protection NAAS of Ukraine,  
33, Vasilkovskaya str., Kiev-022, 03022, Ukraine,  
e- mail [galaganta@mail.ru](mailto:galaganta@mail.ru)*