



Wild boar (*Sus scrofa* L.) is the most popular game species in Lithuania. Their high sociality, reproductive potential, adaptability,

sinantrophy, omnivory

and other species specific features allow wild boar to adapt in the changeable environment.

**However**, it causes a set of problems due continuous increase in number and damage to agriculture and forest.



# FEW HISTORICAL FACTS

Lithuanian wild boar belongs to the Central European subspecies **Sus scrofa scrofa**.

In the territory of Lithuania, the wild boar spread approx. at the end of the Early Holocene (i.e. 8-6 millennium B.C.), most in  $3rd - 2^{nd}$  millennium B.C.

In the period after World War 2, the number of wild boar decreased

because of formerly abundant population of

predator (wolf Canis lupus L.),

poaching and disturbance.

Simultaneously, past severe winters

negatively affected survival

of the annual increment of wild boar population; additionally,

almost a quarter of adults were usually lost.





#### Nevertheless,

- abundant supplementary feeding in winter

(notice: it was a strong tradition until 2015),

- poaching prevention,
- reduction of predator number and further maintenance of their lowdensity population

= were good measures recovering wild boar.

#### Today,

#### overabundance exceed permissible levels

that has contributed to the emergency of contagious diseases in the

absence of natural predators (as sparse large carnivores) and suitable climate changes.

#### Unfortunately,

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quantitative management of population, as rule, is referred in danger of diseases; integrated management and monitoring is performed locally









The **quantitative** management of wild boar population is based on the losses of agricultural crops, population size and its annual increment.

The ratio of the population use is calculated by the formula :

N = I + (RN - PN)/y, where N = refers to the ratio of use, I = is wild boar annual increment, individuals; RN = is the actual number of animals on the certain territory, PN = is the economically permissible number of animals on the certain territory, y is the number of years required to recover the balance between animal number and carrying capacity of a certain territory.













## FEEDING

Despite wild boar are omnivores,

they primarily feeds **on plants.** Plant matter comprises around **90% of the diet** as they feed on young leaves, berries, grasses and fruits, and unearth roots and bulbs from the ground with their hard snouts.

### However,

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previous abundant supplemental feeding caused physiological adaptation and rapid increase in abundance. The supplemental fodders were found in the stomachs of even 70% animals and comprised up to 40% of stomach content.











Food	Share in the diet, %
Cereal	47
Potatoes	53
Beets	12
Green plants	6
Roots and bulbs	5
Berries and fruits	1.5-2.0
Tree/shrub roots & mushrooms	0.4-0.7
Food of animal origin	3.5
Needles, leaves and moss	0.2-0.4
Acorns	15
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# HABITAT

The most preferred habitats are the territories of deciduous with spruce forests and mixed spruce-deciduous forests in the central part of Lithuania

Correspondingly,

the local populations of wild boar are most numerous here.

However, it should be considered that the animal number depends not only on natural conditions but most on human factor

(previous abundant supplemental feeding, extensive hunting, attractive mosaic of forest edges and agricultural crops, suitable shelter conditions etc.)

These conditions allowed wild boar spread over the country









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The territorial management should be performed in the forest complex of **5--10 thousand** hectares considering

#### a) the size of the home range,

#### b) seasonal migration /moving of wild boars.

The annual biological increment of wild boar local population is 50-60 %

the annual increment coefficient is 1.0-1.5, and sex ratio is 1:1.5.

The harvesting volume should be changed considering winter severity.

Following severe winters, and then the annual increment is only **0.6-0.7** harvesting volume is reduced up **to 60-70 %**.

If foraging in winter is sufficient, 80-100 % harvesting is allowed.

















### Who is blamed?

Today in game management, we consider the CIC strategy of sustainable hunting.

Some countries (Italy, Spain, Portugal e.g.) indicated that driving hunting, namely, is the best measure to protect agricultural crops against damage caused by wild boar. The drive hunting with dogs is most popular here.

What decision of the control method should be accepted?

#### However,

wild boars usually retreat from such territories despite baiting; **unfortunately**, the baiting recedes into its background (also labour and time expenditures).

#### However,

driving hunting affect animal species differently.

Wild boar distribution differ from one of other ungulates -

= they usually retreat from the home territory as far back as before depletion of the food supply when animals are of the good condition and mortality is low.



## It is notorious that

Wild boars live in the comparatively large social units – mother groups (called sounds)

that are composed of several females and their offspring

The changes in sounds appear when young males move away from the sound **at the age 18 months** 

These young males **become innovat**ors that spread in the new territories.

#### The pubescent males travel longest distances

Only around 11% of females and even 55% of males spread over 10 km.

From the sound territory, males move away on average 16-17 km and

females 4-5 km.

In few cases, single males moved over 100 km (Sweden) and 250 km (Poland)



#### It is still unclear,

why only few individuals are infected on the certain territory while other members of social group are still healthy?

We cannot maintain that they could be infection carriers as the virus acts animals as quick as through

Wild boars catch disease not only through direct contacts (via

secretions, blood, sperm) but also indirectly (via transport, food and

bait, different raw materials etc.) and through placenta to foetus;

Moreover, the virus can also be transmitted by wild birds, insects, and,

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### surely by humans themselves.





