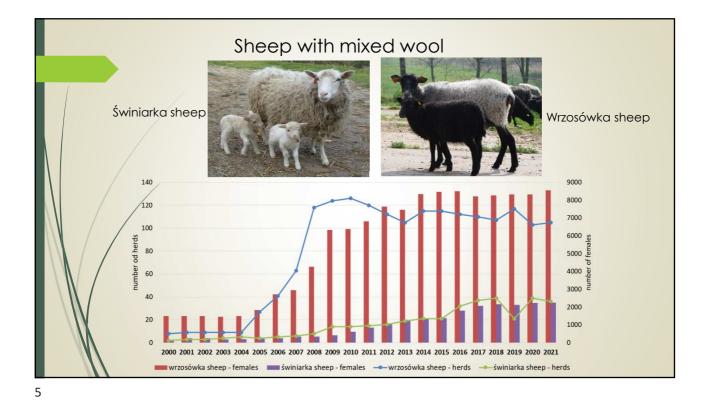
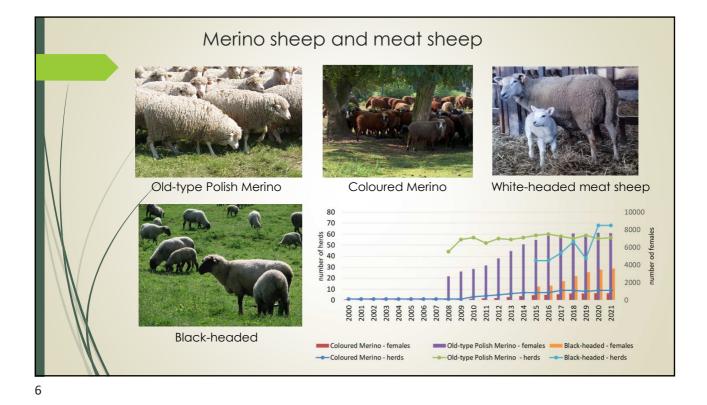
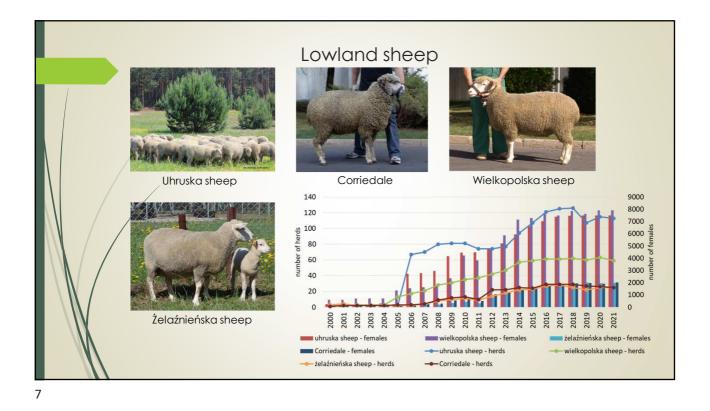
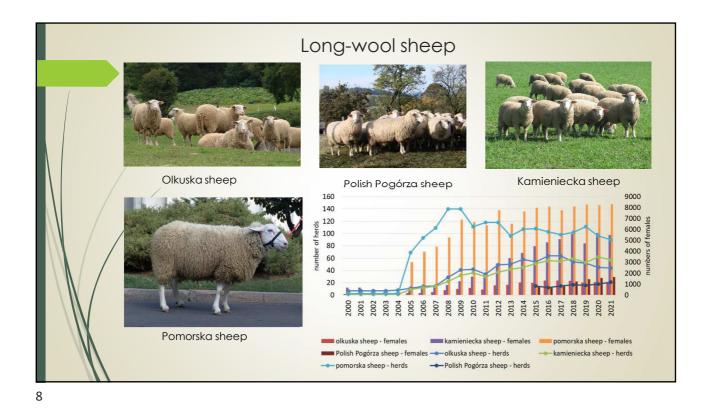


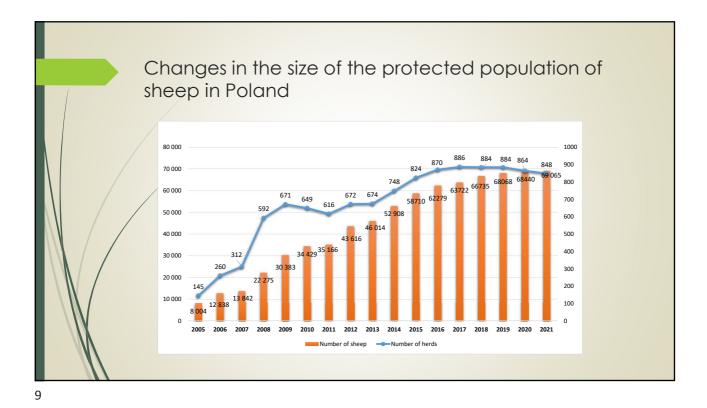
The mountain sheep: Podhale Zackel, Polish mountain sheep and Coloured mountain sheep, represent the woolly-milky direction of use. They provide milk for the production of traditional products (oscypki, bundz, bryndza, redykołki, żentyca), wool, hides, and very tasty meat (lamb from Podhale and Beskidy). The breeds are perfectly adapted to the harsh climatic conditions and terrain of the mountains Mountain sheep are an inseparable element of the highland economy and culture. Cultural grazing of mountain sheep is of particular importance for the preservation of the biodiversity of plant communities in the protected areas of National Parks.



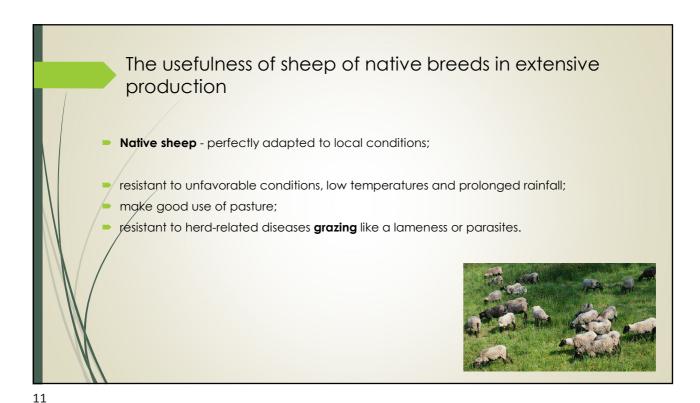


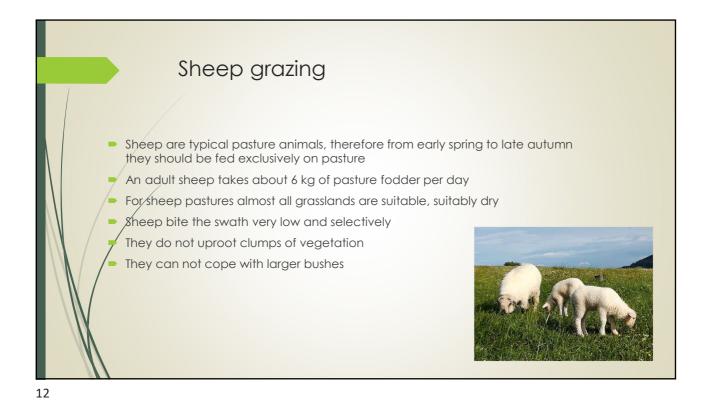














The "ecological" benefits of grazing

Grazing is one of the most effective active protection of xerothermic grasslands!

Sheep - "live mower" - eliminates undesirable species from the turf, biting the bushes, thereby preventing the natural succession.

By trampling, fragments of soil are exposed, which allows grassland plants to germinate more easily.

Contributes to the spread of seeds (Zoochoria) between grasslands and enrichment of subsequent biocenoses with valuable plant species

Sheep manure provides the soil with minerals

It prevents fires by removing biomass

## The role of sheep in active nature conservation

- Active protection consists in restoring the natural state of nature through the use of appropriate care, breeding and protection treatments and the preservation of some elements of nature in a specific state.
- Grazing **prevents secondary succession**, which consists of an increase in the share of shrubs and trees and the impoverishment of biodiversity
- Properly conducted grazing is the cheapest, most natural and environmentally friendly method of maintaining the natural and landscape values of semi-natural habitats

Secondary succession: the forest returns to the meadows and fallow fields



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Use of grazing in protected areas

Grazing prevents secondary succession, which consists of an increase in the share of shrubs and trees and the impoverishment of biodiversity

## **Protected** areas

- National parks
- nature reserves
- landscape parks
- other protected natural and landscape areas
- Natura 2000 areas



## The use of sheep grazing in the territory of mountain national parks

Nature conservation programs in National Parks with the use of extensive grazing of mountain sheep

	National park	Area (ha)	Lead time since
/	Babia Góra	12	2002-2005; 2008
	Bieszczady	300	1998
/	Gorce	24	2004
/	Magura	100	1998-2008; 2008
	Pieniny	52	1992
\	Tatra	150	1981
1			

National Parks of Polish Carpathians

PARKI NARODOWE KARPAT POLSKICH

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## Grazing in the Polish Carpathians

The landscape of the modern Carpathians has been shaped by centuries of mow and pasture economy



Glades and halls created as a result of human activity can exist only when they are used.



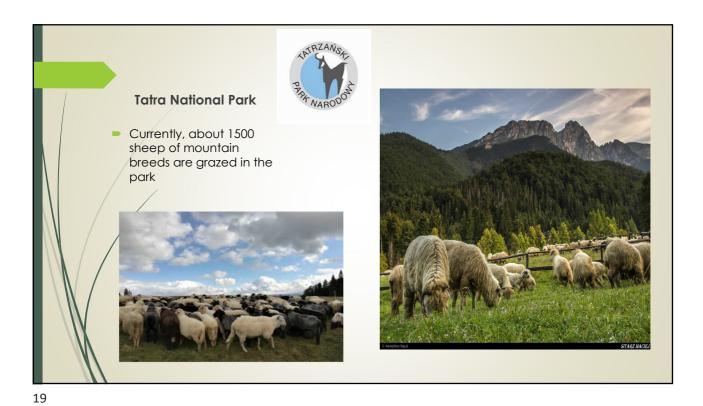
During world war II, 30,000 sheep and cows were grazed in the Tatras!

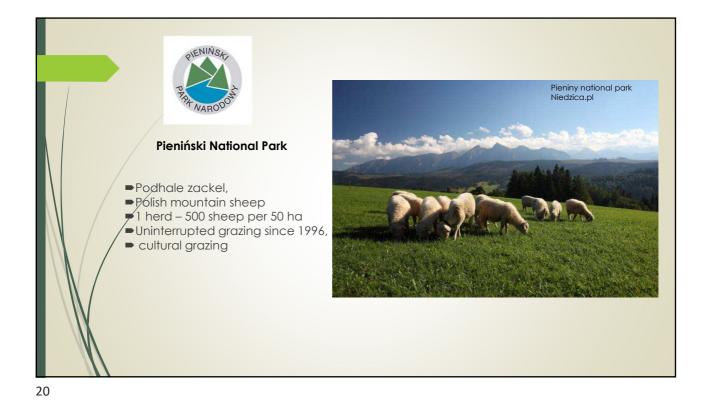
1954 – establishment of TNP

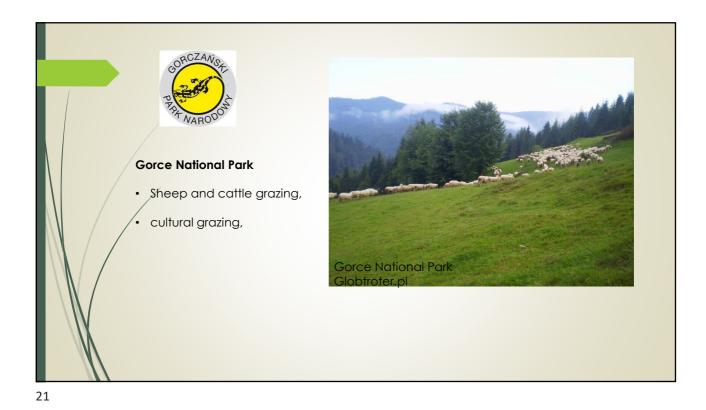
1978 – complete cessation of grazing

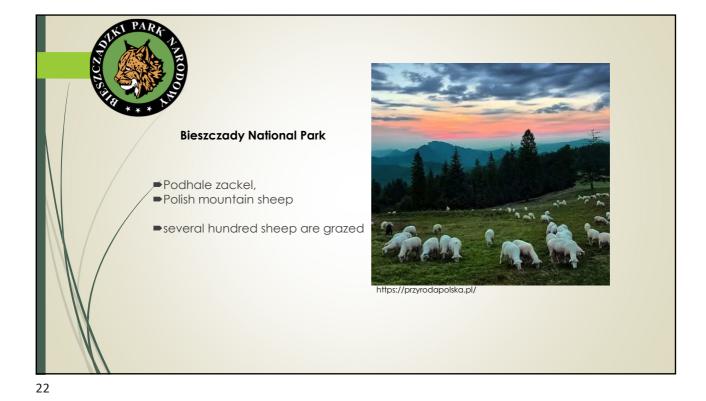
Effect! ecological succession

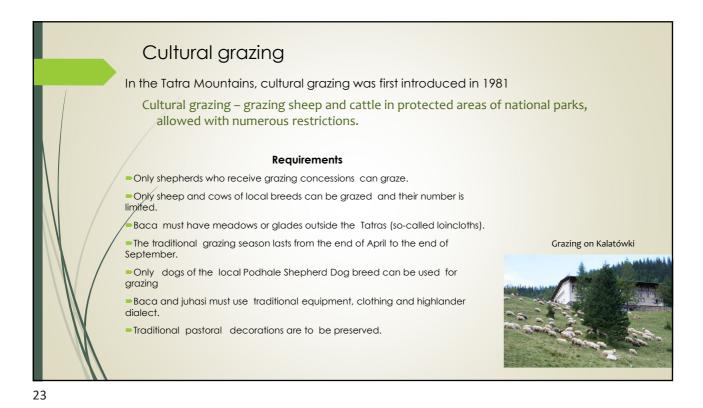
- overgrowing of halls with blueberries, raspberries, forest;
- reduction of biodiversity.



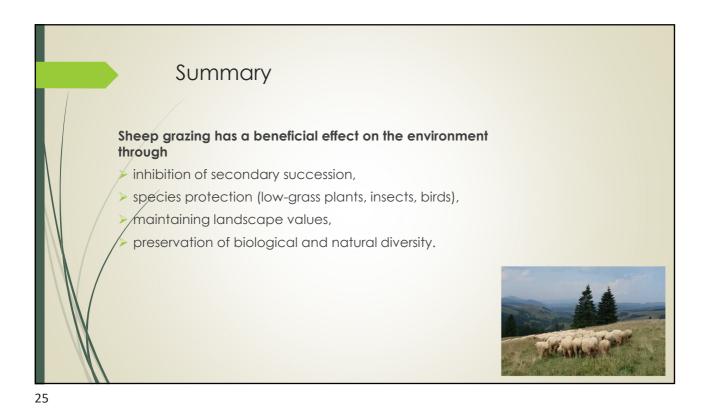
















Extensive sheep grazing serves to protect nature and preserve valuable natural landscapes; carried out in fallow areas, grasslands of mountains and foothills, in river valleys and in mid-forest clearings, it helps to maintain the specific nature of ecosystems and the biodiversity of free-living species. The grazing of animals in mountainous regions has specific culture-forming functions, which distinguishes these areas from other parts of the country, giving a specific character to the entire mountain culture.