

UNIVERSITY OF BELGRADE FACULTY OF AGRICULTURE

**Annual pasture legumes in
Serbia**

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Annual legumes

- Naturalized ecotypes of annual pasture legumes have been sources of well-adapted commercial cultivars
- Annual legumes represent one of the most significant crops in the global agriculture today, with a prominent place in both animal nutrition and animal feeding



Annual pasture legumes

- ❖ The conservation of annual pasture legumes seeds have two important purposes:
 - ❖ the long term preservation of germplasm
 - ❖ the availability of base material to obtain new varieties well adapted to specific soil and climatic conditions

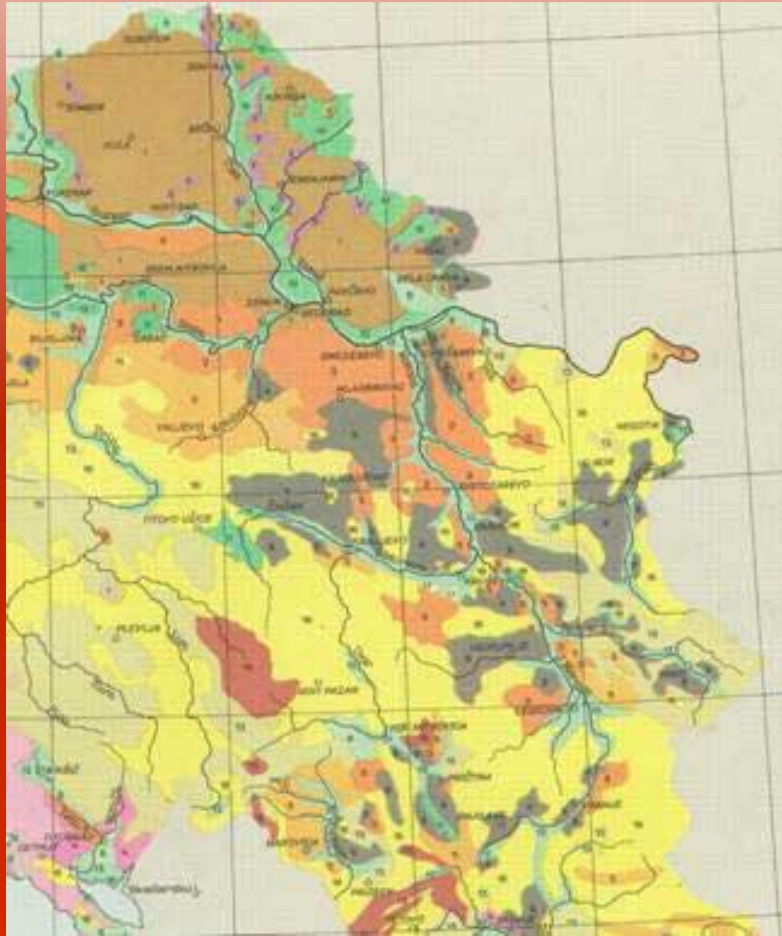




Problem at the natural grasslands in Serbia

- Legumes

- the lack of leguminous species and its share
- longevity of the legumes



- Legumes are increasing soil fertility and satisfying the nutritional needs of other plants



- In Serbian pastures of Balkan areas, annual legumes take special importance as pasture species because of their high quality, production and aptitude to fix atmospheric nitrogen in symbiosis with soil bacteria



Serbian pastures

Location in Serbia

During recent researches and project activities, it has been found area with high biodiversity of forage plants and important for Serbian livestock production

Annual pasture legumes were looking at three locations in Western Serbia, vicinity of city Valjevo

Western Serbia



RESEARCH AREA IN SERBIA

Those locations are: Leskovac (750 m asl.), Bukovica (550 m asl.) and Ravnje (450 m asl.)

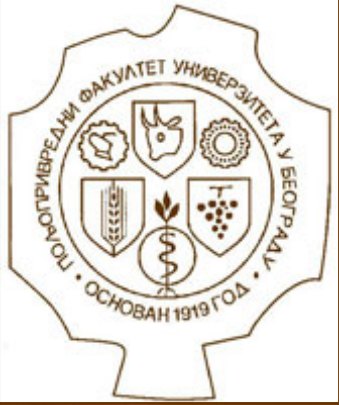
Main goal of past activities was to mark natural grasslands at these sites and determining of botanical composition

There have been determined annual legumes from genus *Trifolium* (*arvense*, *incarnatum*), *Lathyrus* (*aphaca*, *hirsutus*, *annuus*) and *Vicia* (*grandiflora*, *hirsutum*)





- One of the main goals of the programmes related to genetic resources of annual forage legumes is the conservation of a remarkable genetic variability of these crops in the form of collections of accessions of diverse origin and to utilise these local genetic resources for pasture improvement programmes



Thank you for your attention

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