



# IMPACCT CASE STUDY No. 20

## Integrated Management Options for Agricultural Climate Change Mitigation

### Póti Farm, Gödöllő, Szárítópuszta, Hungary

This case study is based on a 45 ha livestock farm that also produces its own livestock feed. The farm is located close to Budapest in the Gödöllő hilly region, on the north-west part of the Great Hungarian Plain.

The main enterprise on the farm is livestock production. Livestock include 45 dairy and beef cattle, 25 goats, 22 sheep and some horses. 15 ha of alfalfa and 10 ha of spring greens for forage is produced and 20 ha of maize sorghum for silage also grown.

The soil is a loamy Ramann brown forest soil and the area has a continental climate. The farm is also used for experimentation and educational purposes.



Gödöllő, Szárítópuszta, Hungary



Alfalfa

The farm has adopted several changes in its practices to improve its financial situation, mitigate climate change and protect the environment. These include:

- The farm is used by the SZIU Crop Production Institute, Szent István University to undertake field experiments on animal husbandry particularly with respect to ruminant breeding and feed studies.
  - The data and knowledge arising from these experiments is utilised by the farm and used for farmer and student education purposes.
- Recent studies have enabled diets and feeding regimes to be optimised, reducing feed waste and the embodied greenhouse gases considerably.
  - New storage facilities for slurry and manures have been built to replace the use of in-field manure heaps. These have been built from ferroconcrete - concrete with metal and/or mesh added to provide extra support against physical stress. The new facilities are likely to have reduced environmental losses of nitrogen as leached nitrate and the greenhouse gas nitrous oxide.. This work has required considerable financial investment of 6.0million Forints (approx. €22,500) however, 1.5million Forints (approx. € 5600 euros) was received as a State grant.



Original case study content collated by SZIU Crop Production Institute, Szent István University

