

Adoption of Innovative Models for the Management of Pastures for Food and Ecosystem Quality

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

A.M.I.P.A.E.

Tematica

Gestione aziendale

Information

Time frame

2019 - 2021

Durata

24 months

Partners (no.)

6

Regione

Campania

Comparto

Zootecnia

Localizzazione

ITF32 - Benevento

ITF35 - Salerno

Costo totale

€318.527,19

Fonte di finanziamento principale

Programma di sviluppo rurale

Programma di sviluppo rurale

2014IT06RDRP019: Italy - Rural Development

Programme (Regional) - Campania

Parole chiave

Animal husbandry and welfare

Landscape /land management

Soil management / functionality

Sito web

<http://www.izsmportici.it/portale/index.php?la=&m=10&p=149>

Project status

completed



Objectives

To elaborate rational management models of natural pastures with specific reference to the soil, climatic and floristic characteristics of the Campania pastures. Identify synthetic indicators of environmental quality of pastures (soil, plant and animal communities). Develop breeding protocols aimed at achieving high levels of animal welfare. Evaluate the quality of the farm products following the PRV and the adoption of the specifications. Create a set of production specifications, pursuant to Reg. 1151/12 title IV, art29 and 31, based on the correct management of the pastures and therefore on the reduced environmental impact, as well as the commercial response to the productions obtained.

Results

The AMIPAE project has made it possible to develop an efficient multidisciplinary experimental design to evaluate the effects of rational grazing; the indicators used consistently with the project have created a knowledge base that can be applied in the future to other similar test cases. On the basis of the results obtained the rational grazing does not create differences in the floristic richness in the short term. In particular, no increases in the number of invasive alien species were observed, which is one of the negative indices considered. This result is perfectly in line with the literature; the results may vary in the future continuing to apply the PRV in the same areas, highlighting dynamics and processes even more encouraging. Intensive grazing in the PRV areas did not have any adverse effects on the soil compared to the grazing area; this was found only a few days after the animals were removed from the test areas. The double grazing shift did not adversely affect the properties of the soil in relation to the non-grazed area. In addition, the results of the AMIPAE project are of

international importance when framed in the context of the 2030 Agenda for Sustainable Development adopted by the UN General Assembly on 25 September 2015. As regards animal welfare, for the farms under test the comparison between the traditional grazing group vs voisin did not show any statistically significant differences. To explain these results, it should be considered that the conditions of the control group are already high and that voisin does not cause changes in conditions that may limit the welfare levels of the subjects bred. The application of PRV allows to satisfy most of the nutritional needs of herbivores mainly fed with grass, keeping the turf in a state where the production and quality of the forage is maximized. Furthermore, the meat produced from grass has a lower cholesterol content than that raised in intensive farming. This allows them to adhere to organic certification and other certification systems, allowing farmers to tick higher prices for their products.

Activities

The project involves the application of the innovative "Voisin" (PRV) method, aimed at creating a rational process for the management of pastures while taking into account the three absolute elements of reference, "plant-soil-animal", as a systemic ecological unit in which each element must be considered according to its continuous interaction with the other elements. The PRV is therefore an innovative system that allows animals to benefit from high nutritional quality feed and increased pasturage availability, as well as a better performance in regards to production of meat and milk.

Context

The "PRV" will be applied to companies partnered with the project, who joined by making available the business chosen in three different provinces, Avellino, Salerno, and Benevento. These businesses present different typologies, in order to test the "PRV" in different environmental, climatic and soil conditions. Furthermore, all companies have ensured that part of the pasture will be managed with traditional methods in order to carry out the necessary comparative analyses with Voisin.

Partenariato

Role	Azienda	Address	Telephone	E-mail
Leader	Istituto Zooprofilattico Sperimentale del Mezzogiorno	Via Salute, 2 80055 Portici NA Italy	0817865111	federico.capuano@izsmportici.it
Partner	Università degli studi della Campania L. Vanvitelli	Viale A. Lincon, 5 81100 Caserta CE Italy	0815666912	rettorato@unicampania.it

Role	Azienda	Address	Telephone	E-mail
Partner	Università degli studi di Napoli Federico II - Dipartimento di Agraria	via Università 100 80055 Portici NA Italy	0812539173	dip.agraria@unina.it
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Partner	Azienda Agricola "Belperio Luigi"	C.da Casaraccio, 5 82020 San Giorgio La Molara BN Italy	3386349574	luiginobelperio@gmail.com
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Pratiche abstract

Description

It is necessary to implement forms of management of grazing animals in order to: maximize the levels of ingestion and the energy yield of the ration in terms of milk and meat; respect the rhythms of the herd or herd (well-being); preserve and improve the forage quality of pork rinds while preserving their specific biodiversity; reduce trampling, pathways and consequent surface erosion; maintain or improve the level of environmental quality; conserve and preserve habitats. Grazing methods are therefore necessary, such as PRV, aimed at harmonizing the many variants related to pastoral activity in the most natural way possible, avoiding or minimizing mechanical interventions. The PRV aims to increase sustainability from an economic and environmental point of view compared to traditional practices, has the aim of guaranteeing animals a high level of well-being, improving the structure and fertility of the soil and increasing productivity per hectare compared to grazing free and / or planting of annual crops.

Link utili

Titolo/Descrizione	Url	Tipologia
Pagina web sul sito della Regione Campania	http://www.agricoltura.regione.campania.it/psr_2014_2020/1611_2/AMIPAE.html	Link ad altri siti che ospitano informazioni del progetto

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://www.izsmportici.it/portale/index.php?sm=0&p=149	Sito web
Video A.M.I.P.A.E. IL PASCOLO RAZIONALE VOISIN	https://www.youtube.com/watch?v=8FNVSvoQTAU	Materiali utili
Video del convegno finale	https://www.youtube.com/watch?v=9vRrAtdUIJw	Materiali utili
Video spot - LA TUTELA AMBIENTALE	https://www.youtube.com/watch?v=jp-WV_xlloI	Materiali utili
Video spot - IL PASCOLO RAZIONALE	https://www.youtube.com/watch?v=XRrOS3yv4kA	Materiali utili
Video spot - LA QUALITÀ DEI PRODOTTI	https://www.youtube.com/watch?v=OFC3a8eilDg	Materiali utili