



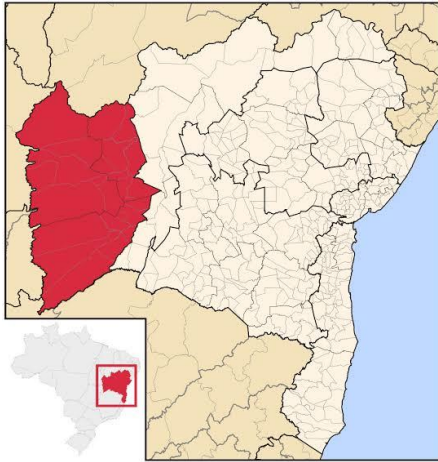
Bahia State University



NEPPA
Animal Science Research
and Extension Center



2016-2018



Area: Western Bahia (45,092 sq. miles)

Number of municipalities: 13

Number of producers benefited: 5,600

Partnership: City councils

Feeding the animals in the dry season is the most limiting aspect of the livestock production in Brazil. Small producers do not have the knowledge of the many alternatives to mitigate the drought effects and year after year they struggle to buy expensive feed to keep the cattle alive or have to sell the cattle for low prices.

In this context, since 2002, forage and pastures, forage conservation, alternative feedstuffs and ruminant nutrition have been areas extensively worked in the research and extension of the Animal Science Research and Extension Center.

Research

Forages and pastures

- Establishment of perennial warm season grasses intercropped with annual grasses;
- Forages grasses for hay;
- Rotational grazing pasture management;
- Pasture fertilization trials;
- Tropical forage legumes establishment and management;
- Annual grasses/
- Seed production;
- rangelands.



Ruminant nutrition

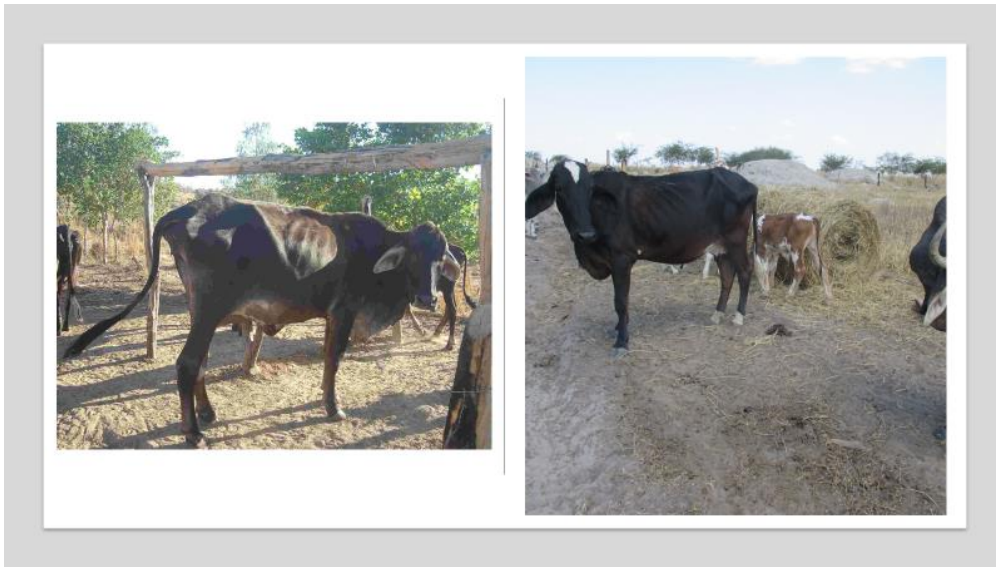
- Animal Nutrition and Pastures Laboratory
- Techniques for improvement of low quality roughages i.e. cotton gin trash, and other byproducts (soybean hulls, sisal), using chemical and biological treatments, for beef cattle, small ruminant and dairy cattle;
- Techniques for grass silages improvement (microbial additives, nutritive additives).



Extension



However, the general situation was still desolating.



Then, the decision was to go further in the problem solution with, not only work on spreading the knowledge, but do direct intervention donating springs and seed to producers.

This intervention project was in a direct way, through the distribution of improved forage plants, and also in an indirect way, through spreading drought mitigation techniques.

The “forage savings” is initial focus of the activities of this new social innovative project.

Many courses, seminars, field days, symposium took place.





Symposiums with book distribution, pocket book with accessible language and pictures, and even an award was created.

In 2017 we created an alliance with 13 municipalities to strengthen the program.



Forage plants unit – on campus



The main Forage plants unit on campus reunites around 50 grasses of different genus and cultivars (*Brachiaria spp.*, *Panicum manixum*, *Pennisetum purpureum*, *Cynodon spp.* and other genus) and tropical forage legumes (herbaceous, shrubs and trees), including some crops used as strategic reserved (e.g. sugarcane, spineless cactus, cassava) and for silage (corn, sorghum, millet). We decided to replicate in three different locations (with the participation of small producers association, syndicates, federations, governmental institutions and municipalities) a core collection to show the producers the importance of diversification of the forage plants instead of monoculture very common in our region and to teach the characteristics of the most important forage plants. In addition, to share them through seeds and springs.

Forage plants unit - replication



To reach a large number of producers and extension agents, the Forage plants unit went to a virtual environment, where interactively users could explore different facets of them.

Forage plants unit – on line



Field days: Alternatives for feeding cattle during the drought

The image displays promotional material for a field day. On the left is a vertical poster with a blue background and white clouds. At the top is an illustration of a red tractor in a field. The main text reads 'DIA DE CAMPO SOBRE SILAGEM' in large, bold, red letters. Below it, in smaller white text, is 'A melhor alternativa para Alimentação do Gado na Seca'. Further down, in white text on a blue background, is '09 de abril as 9h (último grupo 10h30) Fazenda Madras - Riachão das Neves/BA'. At the bottom of the poster are logos for 'REALIZAÇÃO: UNEB, NEPPA, FAZENDA MADRAS VS, and Qualyagro'. Below the logos are the website 'www.neppa.uneb.br', the Facebook page 'facebook.com/neppauneb', and the phone number 'fone: 77 99837.0985'. To the right of the poster is a collage of six photographs showing people at a field day. The photos depict a green tractor, a group of people gathered around a piece of equipment, a large pile of silage, a person presenting at a board, and a tractor in a field.



Hope project in the media

https://www.youtube.com/watch?v=5PeegobX_w

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DANILO GUSMAO
organizador do simpósio

12 Year Old Boy Humiliati

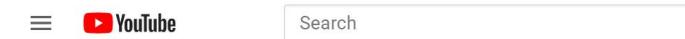
Dia de Campo sobre Alternativas para Alimentação do Gado na Seca

https://www.youtube.com/watch?v=8_Y3PfDDwz4



Cinco dicas sobre Alternativas para Alimentação do Gado na Seca

<https://www.youtube.com/watch?v=Nosuxr4UHDo>



Feno: projeto de pesquisa aponta as melhores opções para fenação

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<http://www.novoeste.com/index.php?page=destaque&op=readNews&title=Dia+de+campo+re%FAne+mais+de+120+produtores+interessados+nas+t%E9cnicas+de+produ%E7%E3o+da+silagem>

<https://jornalnovafronteira.com.br/canais/agronegocio/dia-de-campo-de-silagem-em-riachao-das-neves-reune-mais-de-120-produtores/>

<https://docplayer.com.br/143036975-Experiencias-praticas-de-reserva-de-forragem-no-oeste-da-bahia-prof-danilo-gusmao-neppa-uneb-coordenador-da-faculdade-de-medicina-veterinaria.html>

<https://silo.tips/download/recuperaao-de-pastagens-degradadas>