



FAO Electronic Conference on Tropical Silage

**Organised by
FAO:
[1 Sep-15 Dec
99]**

**Grassland and
Pasture Crops
Group, AGPC**

**Feed
Resources
Group, AGAP**

**Caterina
Batello**

**Stephen
Reynolds**

Andrew Speedy

Len 'tMannetje

Max Shelton



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Electronic Conference on Tropical Silage

Contents: Papers



Introduction to the conference on silage making in the tropics. L.'t Mannetje.



Silage fermentation processes and their manipulation. Stefanie J. W. H. Oude Elferink, Frank Driehuis, Jan C. Gottschal, and Sierk F. Spoelstra.



Use of ensiled forages in large scale animal production systems. Tom Cowan.



Grass and legume silages in the tropics. Titterton, M. and Bareeba, F. B.



The potential use of tropical silage for livestock production with special reference to smallholders. David H. Machin.



Silage from by-products for smallholders. Kayouli Chedly and Stephen Lee.



Silage from tropical cereals and forage crops. G. Ashbell and Z.G.Weinberg

Harvesting and Ensiling Techniques. Dr. Félix Ojeda



García.

Additives to Improve the Silage Making Process of Tropical Forages. Paulo R . F. Mühlbach



The Future of Silage Making in the Tropics L.'t Mannelje



Summary of the Discussion L. 't Mannelje



***Final Remarks and Analysis of Questionnaire* S.G. Reynolds**



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The place of silage in ruminant production in the humid tropics. C.C. Wong



Silage making activities of the department of veterinary services Malaysia. F. Y. Chin and A.B. Idris



Basic reasons of failure of silage production in Pakistan Syed. Hassan Raza



The Use of Silage in Year-Round Feeding System: The Case in Sarangani Agricultural Company, Inc. cattle operation in Southern Philippines. J. M. Montemayor, R.A. Enad and F.U. Galarrita



Silages from tropical forages: nutritional quality and milk production. Aminah A., Abu Bakar C. and Izham A.



Silage quality and losses due to ensiling of Napier grass, Columbus grass and maize stover under small holder conditions in Kenya. P.J.M. Snijders and A.P. Wouters



Wet Season Silage Production at Taminmin High School. Chris Regan



Kikuyu Grass Composition and Implications for Silage Production. Alan G. Kaiser, John W. Piltz, Euie J. Havilah and John F. Hamilton



Silage of *Cratylia argentea* as a dry season feeding alternative in Costa Rica. P. J. Argel, M. Lobo di Palma, F. Romero, J. González, C. E. Lascano, P.C. Kerridge and F. Holmann.



A Comparison of the Nutritive Value of Cavalcade legume pasture and Pangola grass pasture preserved as silage or hay. Chris Regan
Tomato Pomace-Rice Straw Silage as Feed for



Growing Cattle. Rogelio R. Caluya
Rumen Metabolism of Sheep Fed Silage Containing Poultry Litter. Shahid Rasool, S.H.Raza and Tanveer Ahmad



Voluntary Intake and Digestibility of Treated Oil Palm Fronds. M. Wan Zahari¹, S. Oshio, D. Mohd Jaafar, M. A. Najib, I. Mohd Yunus and M.S. Nor Ismail



Sweet Corn Stover Silage Production. A.B. Idris, S.M. Yusoff and A. Sharif



Successful Smallholder Silage Production: A Case Study from Northeast Thailand. Ganda Nakamane



Grain Corn Silage and Forage Corn Silage Evaluation on the Nelore and Canchim Cattle Performance in Feedlot. Anselmo Jose Spadotto *et al.*



Development of Ensiling Technology for the Small Holder Cattle Owners in Zimbabwe. M. Titterton *et al.*



Sweet Sorghum-A fine forage crop for the Beijing region, China. Li Dajue and Song Guangwei



Tropical Maize Silage in Central Brazil. Raúl R. Vera and Esteban A. Pizarro



Evaluation of Different Harvest Times of Four Genotypes of Sunflower (*Helianthus annuus* L.) for Ensiling. Gonçalves L.C. *et al.*



Sila-wrapped Grass Silage Production Using the Small Bale System (SBS) for Feeding of Goats and Sheep.



S.S. Shariffah Noorhani, A. Aini & A.B. Idris
Little Bag Silage. Ian R. Lane



**Effect of Time of Day on the Water Soluble
Carbohydrate Content of Kikuyu Grass. Alan G. Kaiser,
John W. Piltz, John F. Hamilton and Euie J. Havilah**



**Evaluation of Quality and Nutritive Value of Napier
Grass Silage with Different Growth Stages Either
Chopped or Unchopped in Northeast Thailand. Mitsuru
Shinoda *et al.***



**The Use of Molasses to Improve the Fermentation of
Low-Dry Matter Kikuyu Grass Silages. John W. Piltz *et
al.***



**Use of Dehydrated Sugar Cane (*Saccharum
officinarum*) as an Additive to Napier Grass
(*Pennisetum purpureum*) Ensilage. José Neuman
Miranda Neiva *et al.***



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The Conference:

The Conference was structured with 12 invited papers, each of which was supported by shorter (1-2 pages) poster papers. Participants were invited to present a poster paper outlining their experiences or results.

The conference was moderated by Professor Len 'tMannetje from Wageningen with technical assistance from Hector Osorio, CIPAV, Colombia. The papers and posters are published here electronically, prior to final editing and publication of the proceedings in the near future.

Organisers:

The Grassland and Pasture Group and Feed Resources Group of FAO

- Caterina Batello, Agricultural Officer of AGPC
- Stephen Reynolds, Senior Officer of AGPC
- Andrew Speedy, Senior Officer of AGAP
- Len 'tMannetje, Wageningen
- Max Shelton, University of Queensland



Theme:

A review of the potential for use of tropical silage for livestock production, with special reference to smallholders.

The use of silage has long been an integral component of temperate feeding systems worldwide as a means to ensure year-round feed supply to high producing animals. However its use in the tropics has been restricted to isolated cases, usually involving higher return enterprises and particularly the dairy industry. What are the reasons for its apparent lack of application in the tropics? This conference examines this question and all aspects of silage making in the tropics.

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