

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

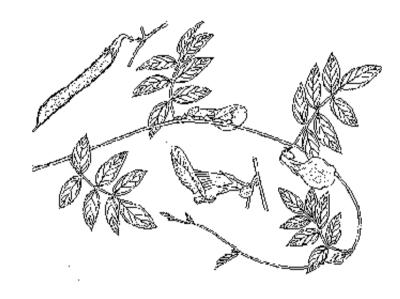
Grassland and Pasture Crops Group, AGPC

Feed Resources Group, AGAP

Caterina
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Andrew Speedy
Len 'tMannetje

Max Shelton

FAO Electronic Conference on **Tropical Silage**



About the Conference

Papers | Posters



Electronic Conference on

Tropical Silage

Contents: Papers















HTML













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 Mannetje





Summary of the Discussion L. 't Mannetje





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 RasooI, 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











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. Raul R. Vera and Esteban A. Pizarro







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.



Tropical Silage

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1 September to 15 December 1999

<u>Papers</u>

Posters

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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