



11-2001

## Forage News [2001-11]

University of Kentucky Department of Plant and Soil Sciences

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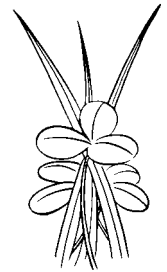
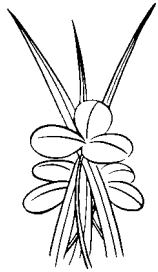
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# FORAGE NEWS



## In this month's issue:

- Grazing Conference November 29th
- Alfalfa Yield vs. Stand Age
- Feed & Forage Composition
- Upcoming Events

## November 2001

*Garry D. Lacefield and Jimmy C. Henning, Extension Forage Specialists • Christi Forsythe, Secretary*

### *Grazing Conference November 29<sup>th</sup>*

The second Kentucky Grazing Conference is set for Lexington. The full day conference will be held Thursday, November 29, 2001 at the Fayette County Extension Office. The program committee has put together an excellent group of speakers from the University of Kentucky, University of Tennessee, and Industry. Our keynote speaker is Mr. R. L. Dalrymple, world renowned grazing enthusiast from Oklahoma. You won't want to miss hearing R.L.'s presentation on "Practical Tools and Strategies for Making Grazing Profitable". After lunch, he will also address the question, "Should I Chain Harrow My Pastures?" In addition, Dr. Gary Bates will discuss Pasture Aeration: Will it Pay?

We are expecting a full group in the Exhibitor Area. Exhibitors will be present representing seed, chemical, fencing, water, fertilizer, and animal health along with other supplies and services of interest to graziers. Commodity groups and educational displays will also be featured. A silent auction will feature seed, chemicals, books, clothing and other items.

The registration fee will be \$15.00 and will cover refreshments, lunch, breaks, conference proceedings and other publications. Listed below is the agenda for the conference. If you have any questions, do not hesitate to contact Dr. Jimmy Henning at 859.257.3144 ([jhenning@ca.uky.edu](mailto:jhenning@ca.uky.edu)) or Dr. Garry Lacefield at 270.365.7541 X202 ([glacefie@ca.uky.edu](mailto:glacefie@ca.uky.edu)).

8:00 Refreshments, Registration, Visit Exhibits

- 8:45 Welcome
- 9:00 The Latest with Max Q, Grazing Maize, and Other Grazing Options--*Dr. Jimmy Henning*
- 9:20 Improving Pastures with Legumes--*Dr. Garry Lacefield*
- 9:40 Harvesting Surplus Growth for Hay and Silage--*Dr. Mike Collins*
- 10:00 Why is the New Zealand Grazer So Successful--*Dr. Chuck Dougherty*
- 10:20 Break - Visit Exhibits
- 10:40 Opportunities for Grazing: County Perspective--*Mr. Dan Grigson*
- 11:00 Practical Tools and Strategies for Making Grazing Profitable--*Mr. R. L. Dalrymple*
- 11:50 Discussion
- 12:00 Lunch and visit exhibits
- 1:00 Pasture Aeration: Will it Pay?--*Dr. Gary Bates*
- 1:20 Should I Chain Harrow My Pastures?--*Mr. R.L. Dalrymple*
- 1:40 Is Shade Necessary in Pasture?--*Dr. John Johns*
- 2:00 Advances in Fencing Supplies and Technologies--*Mr. Buddy Rowlett*
- 2:30 Advances in Watering Supplies and Technologies--*Mr. Ralph Quillin*
- 3:00 Putting it all Together on the Farm--*Dr. Roy Burris*

*ALFALFA YIELD VS. STAND AGE*

The following data was supplied by Dr. Dan

Undersander, Extension Forage Specialist, University of Wisconsin:

Alfalfa Yield	
Year	Percent
1	100
2	102
3	84
4	65

*UNDERSTANDING FORAGE*

NOV 29 Kentucky Grazing Conference  
 DEC 3 Farm Bureau Forage Conference, Louisville  
**2002**  
 JAN 11 Forages at KCA, Bowling Green  
 JAN 24 Five-State Grazing Conference, Rend Lake Community College, Illinois  
 FEB 21 XXII Kentucky Alfalfa Conference, Cave City  
 JUL 18 UK All Commodity Field Day, Princeton

*FEED & FORAGE COMPOSITION*

The following graphic was developed by Dr. John Moore, Professor Emeritus of Animal Sciences, University of Florida and is published in Understanding Forage Quality, a newly released national publication by Dr. Don Ball, et al.

*Garry D. Lacefield* Jimmy C. Henning  
*Garry D. Lacefield* Jimmy C. Henning  
 Extension Forage Specialists  
 November 2001

Feed and Forage Composition								
Analytical Fractions				Chemical Constituents		Other Analyses		
Percentage of Feed or Forage	Moisture				Water			
	Dry Matter	Ash				Various minerals plus sand		
		Organic Matter	NDF	ADF	Cellulose		ADL	
					Lignin			
					Fiber-bound N; Heat-damaged N*			ADICP, NDICP
					Hemicellulose			
		NDS	NDSC	Fructans		NDSF		
				Glucans				
				Pectic substances				
				Sugars				
				Starches				
	Organic Acids							
Crude Protein	NPN (amino acids, amines, urea)		degradable	RDP (DIP)				
	True Protein							
	undegradable				RUP (UIP)			
Ether Extract		Esterfied fatty acids		Pigments and Waxes				

\* Fiber-bound nitrogen and heat-damaged nitrogen are found also in Crude Protein and RUP

- NDF = Neutral Detergent Fiber (insoluble in neutral detergent reagent)
- ADF = Acid Detergent Fiber (insoluble in acid detergent reagent)
- ADL = Acid Detergent Lignin (lignin extracted from ADF)
- ADICP = Acid Detergent Insoluble Crude Protein (from nitrogen found in ADF)
- NDICP = Neutral Detergent Insoluble Crude Protein (from nitrogen found in NDF)
- NDS = Neutral Detergent Solubles (all constituents soluble in neutral detergent reagent)
- NDSC = Neutral Detergent Soluble Carbohydrates
- NDSF = Neutral Detergent Soluble Fiber (undigestible by animal enzymes)
- NPN = Non-Protein Nitrogen
- RDP = Ruminally Degradable Protein (DIP = Degradable Intake Protein)
- RUP = Ruminally Undegradable Protein (UIP = Undegradable Intake Protein)

SOURCE: Dr. John Moore, Professor Emeritus, Dept. of Animal Sciences, Univ. of Florida