FOREWORD

On behalf of the Conference Secretary, Christi Forsythe, and our entire program committee, I want to welcome each of you to Kentucky and our 5th Heart of America Grazing Conference. Special appreciation is expressed to all our sponsors, exhibitors, speakers and moderators. We are excited about the many opportunities that this Conference offers to our “grazing industry”.

We appreciate each of you for taking time from your busy schedules to attend and participate in the Conference. We challenge you to participate fully in all the activities of the day. It is our hope that you will leave with new tools, techniques, practices and information that will be of value to you as you move forward with your grazing program.

Mark your calendars for January 24-25, 2007 and plan to join us at the 6th Heart of America Grazing Conference in Mount Vernon, Illinois.

Best wishes and may 2006 be your BEST YEAR EVER.

Garry Lacefield
HOAGC Program Chairman
Heart of America Grazing Conference  
January 25 – 26, 2006  
Cave City Convention Center  
Cave City, KY

Agenda

January 25, 2006
1:00 PM–5:45 PM Registration / Exhibit Setup

6:00 PM  Welcome & Introductions
Dr. Garry Lacefield, UK Extension Forage Specialist

Dinner

Awards
Dr. Ray Smith, Mr. Dan Grigson, & Dr. Jimmy Henning, UK Extension

Program
Forages in Kentucky
Dr. Garry Lacefield, UK Extension Forage Specialist

Can We Graze Year-round in the Heart of America?
Mr. Ed Ballard, Grazing Educator, IL

January 26, 2006
7:30 AM  Registration & Refreshments / Silent Auction / Visit Exhibits

8:30 AM  Welcome
Dr. Jimmy Henning, UK Assistant Director for Agriculture & Natural Resources

8:40 AM  Pastures for Horses: Challenges & Opportunities
Dr. Bob Coleman, UK Extension Horse Specialist

9:00 AM  From Traditional Confinement Dairying to Grazing Replacement Heifers
Mr. Bill Payne, KY Dairy Producer

9:20 AM  Grazing Program for Goats
Mr. Greg Brann, TN USDA Grazing Land Specialist

9:40 AM  Maximizing Production of Beef Cattle on Pastures
Dr. Justin Sexten, Extension Animal Systems Specialist, Univ. of IL

10:00 AM  Pastures for Wildlife
Dr. Don Ball, Extension Forage Crops Agronomist, Auburn Univ.

10:20 AM  Discussion

10:30 AM  Break, Silent Auction, Visit Exhibits
11:00 AM  Animal Behavior: Impact on Grazing  
Mr. Mark Kennedy, MO NRCS State Grassland Specialist

11:30 AM  Grazing Programs: Environmentally Friendly, Economically Sound and Agronomically Feasible  
Mr. Sid Brantly, KY NRCS Grazing Land Specialist

12:00 PM  Lunch

12:50 PM  Silent Auction Announcements

1:00 PM  Breakout Session

2:00 PM  Break

2:30 PM  Repeat Breakout Session

3:30 PM  Adjourn

Break-out Sessions

SESSION 1: Tall Fescue – Endophyte – Animal Relations
Tall Fescue from 1931-2006  
Dr. Garry Lacefield, UK Extension Forage Specialist

Mineral Supplements and Feed Additives – Can They Eliminate Fescue Toxicity?  
Dr. John Johns, UK Extension Beef Specialist

SESSION 2: Developing Fencing & Water Systems for Efficient Grazing
Chargers, Post, and Wire  
Mr. Ken Johnson, KY USDA District Conservationist

Developing Watering Systems for Efficient Grazing  
Mr. Kevin Laurent, UK Animal Science Extension Associate

SESSION 3: Non-traditional Forages for Grazing
Corn and other annuals  
Mr. Jeff McCutcheon, OSU Extension Educator-Ag. & Natural Resources

Role of Warm Season Perennials in Grazing Programs  
Mr. Mark Kennedy, MO NRCS State Grassland Specialist

Turnips, and other brassicas  
Mr. Dave Robison, Ampac Seed Co.

SESSION 4: Kentucky Producers Panel
Dr. Ray Smith, UK Extension, Moderator

How We Use Our Pastures
Horse - Mr. Doug Gehner
Beef - Mr. Russell Hackley
Goats/Sheep - Dr. Gil Myers
Dairy - Mr. Bill Payne
# HEART OF AMERICA GRAZING CONFERENCE

January 25 - 26, 2006

Cave City Convention Center
Cave City, KY

## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Welcome</th>
<th>Agenda</th>
<th>Table of Contents</th>
<th>Grazing Conference Committee</th>
<th>Sponsors</th>
<th>Trade Show Exhibitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can We Graze Year-Around In the Heart of America</td>
<td>Ed Ballard, University of Illinois</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pastures for Horses: Challenges and Opportunities</td>
<td>Bob Coleman, University of Kentucky</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From Traditional Confinement Dairying to Grazing Replacement Heifers</td>
<td>Bill Payne, Knob Lick Farm LLC, Stanford, Kentucky</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grazing Program for Goats</td>
<td>Greg Brann, Tennessee USDA/NRCS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximizing Production of Beef Cattle on Pastures</td>
<td>Dr. Justin Sexten, University of Illinois</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Growing Forage Crops for Wildlife</td>
<td>Don Ball, Auburn University</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animal Behavior: Impacts on Grazing</td>
<td>Mark Kennedy, Missouri USDA-NRCS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Grazing Programs: Environmentally Friendly, Economically Sound and Agronomically Feasible ................................................................. 36
   Sid Brantly, Kentucky NRCS

Tall Fescue from 1931-2006 ............................................................ 40
   Garry D. Lacefield, University of Kentucky

Mineral Supplements and Feed Additives – Can They Eliminate Fescue Toxicity? .............................................................. 43
   John Thomas Johns, University of Kentucky

Developing Fencing for Grazing Systems ...................................... 48
   Ken Johnson, Kentucky USDA

Developing Watering Systems for Efficient Grazing ..................... 50
   Kevin Laurent, University of Kentucky

Corn and Other Annuals ................................................................. 53
   Jeff McCutcheon, Ohio State University

Perennial Warm Season Grasses in Grazing Programs .................... 59
   Mark Kennedy, Missouri USDA-NRCS

Non-traditional Forages for Grazing: Turnips and other Brassicas .... 62
   Dave Robison, Ampac Seed Company

How I Use My Pastures .................................................................. 65
   Doug Gehner, Kentucky Horse Producer

How I Use My Pastures .................................................................. 66
   Russell C. Hackley, Kentucky Beef Producer

How We Use Our Pastures on Surreal Farm .................................... 67
   Gil Myers, Kentucky Goats/Sheep Producer
Heart of America Grazing Conference

Committee Members

Executive Committee

Edward N. Ballard  
Animal Systems Educator, Retired  
University of Illinois Extension  
1204 N. Long Street  
Shelbyville, IL 62565  
Phone: 217-774-4267  
edward@consolidated.net

Mark Kennedy  
State Grazing Land Specialist  
USDA-NRCS  
6726 S. Highway 63  
Houston, MO 65483  
Phone: 417-967-2028, Ext. 124  
mark.kennedy@mo.usda.gov

Bob Hendershot  
State Grassland Conservationist  
USDA Natural Resources Conservation Service  
831 College Avenue Suite B  
Lancaster, OH 43130-1081  
Phone: 740-653-1559, Ext. 32  
bob.hendershot@oh.usda.gov

Garry D. Lacefield  
Extension Forage Specialist  
University of Kentucky  
P.O. Box 469  
Princeton, KY 42445-0469  
Phone: 270-365-7541, Ext. 202  
glacefie@uky.edu

Allen Ullom  
Extension Educator, CED  
Courthouse Annex 125 S. 8th St.  
Cannelton, IN 47520  
Phone: 812-547-0416  
allen.ullom@ces.purdue.edu

Program Committee Members

Gary Bates  
The University of Tennessee  
252 Ellington Plant Sciences Building  
2431 Joe Johnson Drive  
Knoxville, TN 37996-4500  
Phone: (865) 974-7208  
gbates@utk.edu

Bob Coleman  
Department of Animal & Food Sciences  
912 W.P. Garrigus Bldg.  
University of Kentucky  
Lexington, KY 40546-0215  
Phone: 859-257-9451  
rcoleman@uky.edu

Sid Brantly  
Grazing Land Specialist  
771 Corporate Drive, Ste 210  
Lexington, KY 40503-5479  
Phone: 859-224-7314  
sid.brantly@ky.usda.gov

Dan Grigson  
Lincoln County Extension Agent for  
Agriculture/Natural Resources  
P. O. Box 326  
Stanford, KY 40484-0326  
Phone: 606-365-2459  
dgrigson@uky.edu

Chris Clark  
Hart County Extension Agent for  
Agriculture/Natural Resources  
P.O. Box 367  
Munfordville, KY 42765  
Phone: 270-524-2451  
cclark@uky.edu

Christi Forsythe  
Staff Support Associate  
U.K. Research & Education Center, P.O. Box 469  
Princeton, KY 42445-0469  
Phone: 270-365-7541, Ext. 221  
cforsyth@uky.edu
Phil Howell, CCA
Senior Field Sales Manager
Syngenta Seeds, Inc.  NK Brand
110 West French Street
Elizabethtown, KY. 42701
Phone 270-737-3516
phil.howell@syngenta.com

Frank A. Ireland
Research Animal Scientist
University of Illinois
Dixon Springs Agricultural Center
Rt. 1, Box 256
Simpson, IL 62985
Phone: 618-695-2442
fireland@uiuc.edu

John T. Johns
Extension Beef Specialist
Department of Animal & Food Sciences
810 W.P. Garrigus Bldg.
University of Kentucky
Lexington, KY  40546-0215
Phone:  859-257-2853
jtjohns@uky.edu

Keith D. Johnson
Extension Forage Specialist
Purdue University Agronomy Department
915 West State Street
West Lafayette, IN 47907-2054
Phone: 765-494-4800
johnsonk@purdue.edu

Ken Johnson
Kentucky Producer
PO Box 700
Tompkinsville, KY 42167
270-487-6589, Ext 3
ken.johnson@ky.usda.gov

Robert Kallenbach
Associate Professor
Division of Plant Sciences - 210 Waters Hall
University of Missouri
Columbia, MO 65211
Phone: 573-882-2801
kallenbachr@missouri.edu

Tom Keene
Hay Marketing Specialist
University of Kentucky
Dept. of Plant & Soil Sciences
N-222D Ag Science North Bldg.
Lexington, KY  40546-0091
Phone:  859-257-3144
tom.keene@uky.edu

Gary Letterly
Natural Resources Educator-Christian County
1120 N. Webster Street
Taylorville, IL  62568
Phone:  217-287-7246
letterly@uiuc.edu

Melodie Marshall
Natural Resources Conservation Service
District Conservationist
1050 Hwy 72 E
Rolla, MO  65401
Phone: 573-364-6202, Ext. 3
mel.marshall@mo.usda.gov

Jeff McCutcheon
Extension Educator, A&NR
PO Box 1268
Mt. Vernon, OH 43050
Phone: 740-397-0401
mccutcheon.30@osu.edu

Chris Milam
Logan County Extension Agent for
Agriculture/Natural Resources
121 S. Spring St.
Russellville, Ky. 42276
Phone:  270-726-6323
cmila2@uky.edu

Justin Sexten
Extension Specialist, Animal Systems/Beef
University of Illinois
Mt. Vernon Extension Center
4112 North Water Tower Place
Mt. Vernon, IL 62864
Phone: 618-242-9310
sexten@uiuc.edu
Heart of America Grazing Conference

Sponsors

Illinois Grassland Conservation Initiative Association
Illinois Forage & Grassland Council
Indiana Forage Council
Kentucky Forage & Grassland Council
Kentucky Grassland Conservation Initiative
Kentucky Department of Agriculture
Missouri Forage & Grassland Council
Missouri GLCI Coalition
Ohio Forage & Grassland Council
Ohio State University Extension
Purdue University Cooperative Extension Service
University of Kentucky Cooperative Extension Service
University of Illinois Extension
University of Missouri Extension
USDA Natural Resource Conservation Service
Western Kentucky University
Heart of America Grazing Conference

2006

Exhibitors/Silent Auction Contributors

Gary Allercamp
AGVENTURE D & M, INC.
P.O. Box 794
Elizabethtown, KY  42701

Mike Phillips
CAVERNDALE FARMS
1921 Bluegrass Pike
Danville, KY  40422

Geoff Frank/Laurentia Van Rensburg
ALLTECH
3031 Catnip Hill Pike
Nicholasville, KY  40356

Brad Bennett
CELPRIL
160 County Road 410
Rienzi, MS  38865

Dana Tucker
AMERICAN FORAGE AND
GRASSLAND COUNCIL
P.O. Box 94
Georgetown, TX  78627

Jacob Bentley
CENTRAL FARM SUPPLY OF
KENTUCKY
2840 Summit Road
Big Clifty, KY  42712

Gary Moore
AMERICAS ALFALFA
7099 Parkbrook Lane
Cordova, TN  38018

Doug Bastian
FORAGE FIRST
2901 Packers Ave.
P.O. Box 7790
Madison, WI  53707-7790

Dave Robison
AMPAC SEED COMPANY
403 Wooster Road
Winona Lake, IN  46590

Mike Simpler
HOLLAND EQUIPMENT
P.O. Box 510
Franklin, KY  42135

Ken Carpenter
CAUDILL SEED CO.
1402 W. Main St.
Louisville, KY  40203

Kimberly Field
KENTUCKY DEPARTMENT OF
AGRICULTURE
Forage Testing Program
107 Corporate Drive
Frankfort, KY  40601
Ray Smith
KENTUCKY FORAGE AND GRASSLAND COUNCIL
1405 Veterans Rd.
University of Kentucky
Lexington, KY  40546-0312

Jimmy May
MAY EASTERN GAMAGRASS CO.
4141 Cave Springs Road
Auburn, KY  42206

Bret Winsett
MILES FARM SUPPLY
1855 Pelzer Road
Boonville, IN  47601

Rod Hartzold
MIX 30 – AGRIDYNE
P.O. Box 7510
Springfield, IL  62791

Scott Cooper
MONSANTO COMPANY
707 Huntington St.
Bowling Green, KY  42103

John Langdon
OREGON RYEGRASS COMMISSION
P.O. Box 3366
Salem, OR  97302

Chris Agee
PENNINGTON SEED COMPANY
1280 Atlanta Hwy.
Madison, GA  30650

Randy & John Seymour
ROUNDSTONE NATIVE SEED, LLC
9764 Raider Hollow Road
Upton, KY  42784

Darrell Hinkebein
SMARTLIC SUPPLEMENTS
806 W. Briarwood
Nixa, MO  65714

Gary Coughlin
SOUTHERN STATES COOPERATIVE
4272 Clemens Drive
Lexington, KY  40514

Bill Talley
SUMMIT SEED COATINGS
10100 South Jefferson St.
Princeton, KY  42445

Phil Howell
SYNGENTA SEEDS INC./NK BRAND
P.O. Box 398
Elizabethtown, KY  42702

Chad Stanfield
TURNER SEED
P.O. Box 739
Lavergne, TN  37086

Barry Jordan
WAUKARU POLLED SHORTHORNS
7577 S. 210 E
Rensselaer, IN  47978