



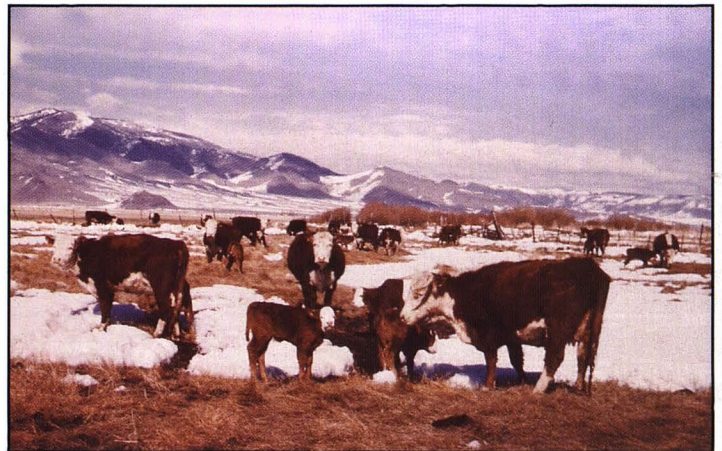
Vol. 33, No. 1  
JANUARY, 1999

# The *Bovine* PRACTITIONER

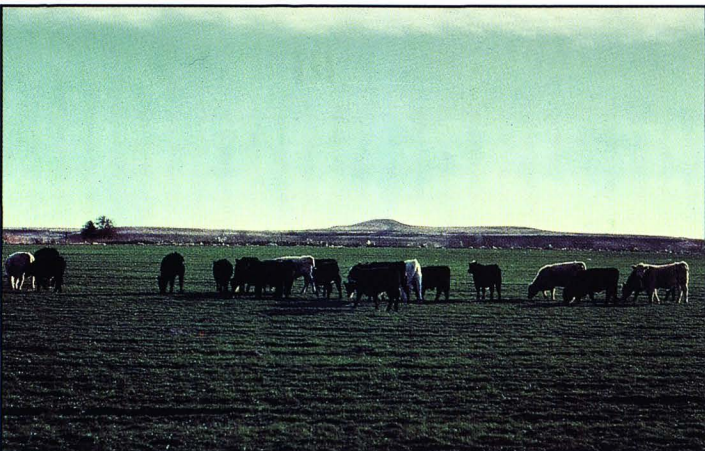
The Journal for All Bovine Practitioners...



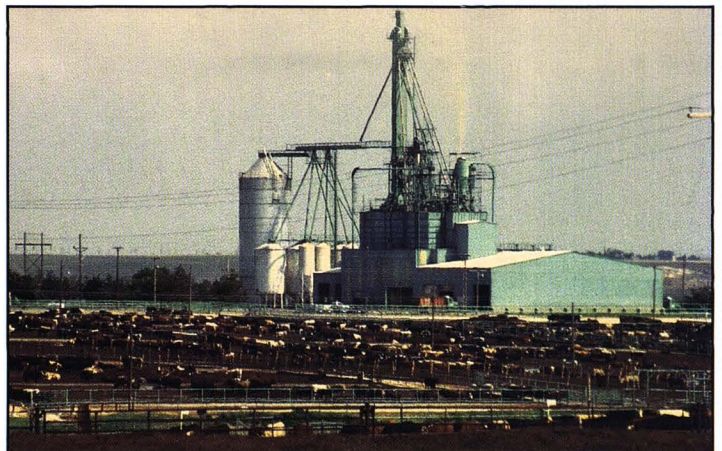
Dairy



Cow-Calf



Stocker



Feedlot

## 32nd ANNUAL CONVENTION

American Association of Bovine Practitioners  
Nashville, Tennessee  
September 23-26, 1999



All product names are registered trademarks of their respective holders.  
© 1998 Pfizer Inc. TX0855/0908 89/501R

**The choice is yours.**

**This or the best guarantee around.**

Don't drive your cattle to barbed wire for relief from lice. Protect them with Dectomax® Pour-On and our exclusive LiceTime Guarantee<sup>SM</sup> program. Only Dectomax offers up to 365 days of satisfaction AND flexible 30-day pen/pasture stocking. Ivomec®, Cydectin® and Ivomec Eprinex® pour-ons

**Compare Pour-On Guarantees\***

	Dectomax	Cydectin®	Ivomec®	Eprinex®
Time allowed to treat all cattle (for lice) in the same pen or pasture	<b>30</b> days	<b>4</b> days	<b>4</b> days	<b>4</b> days
Length of lice guarantee	<b>up to 365</b> days	<b>180</b> days	<b>up to 365</b> days	<b>180</b> days

\*See manufacturer representatives for details.

allow only 4 days. So, if—on day 5—untreated animals mix with treated cattle, you're out of luck. With Dectomax, you're covered for a full 30 days. Dectomax combines the power of doramectin with an alcohol-oil carrier to control lice even under the most severe natural challenge. Choose Dectomax and choose true relief for your cattle. See your veterinarian, animal health supplier or call toll-free 1-888-332-8669.



POWER TO OUTLAST LICE  
**DECTOMAX®**



**Animal Health**



[www.pfizer.com/ah](http://www.pfizer.com/ah)





# The Bovine PRACTITIONER

**EDITOR:**  
**ROBERT A. SMITH, DVM**  
3404 Live Oak Lane  
Stillwater, Oklahoma 74075  
Tel: (405) 372-8666  
FAX (405) 743-8422

**PRINTER:**  
**Frontier Printers, Inc.**  
205 W. 9th  
Stillwater, Oklahoma 74074

## OFFICERS

**President** ..... **Walter M. Guterbock, DVM**  
Visalia, California

**President-Elect** ..... **Larry Hutchinson, DVM**  
University Park, Pennsylvania

**Vice President** ..... **Rod Sydenham, DVM**  
Millet, Alberta, Canada

**Past President** ..... **James E. Sears, DVM**  
Bridgeport, Nebraska

**Executive Vice President** ..... **James A. Jarrett, DVM**  
Rome, Georgia

**Treasurer** ..... **Roger Saltman, DVM**  
Cazenovia, New York

**Parliamentarian** ..... **L. Mac Cropsey, DVM**  
Golden, Colorado

## BOARD OF DIRECTORS

<b>John Ferry, DVM</b> Adams, New York 1st District, 1999	<b>Kenneth Nordlund, DVM</b> Madison, Wisconsin 5th District, 2000	<b>Gary Daley, DVM</b> Turlock, California 10th District, 1999
<b>Richard L. Wilkes, DVM</b> Rocky Mt., Virginia 2nd District, 2001	<b>Mark Kirkpatrick, DVM</b> Ames, Iowa 6th District, 2001	<b>Gregory A. Ledbetter, DVM</b> Jerome, Idaho 11th District, 2000
<b>Charlie Hatcher, DVM</b> College Grove, Tennessee 3rd District, 2001	<b>Darrell C. Payne, DVM</b> Sedalia, Missouri 7th District, 1999	<b>Emile Bouchard, DVM</b> St. Hyacinthe, Quebec, Canada 12th District, 2001
<b>N. Kent Ames, DVM</b> East Lansing, Michigan 4th District, 1999	<b>Steve Lewis, DVM</b> Hereford, Texas 8th District, 2000	<b>David Hamilton, DVM</b> Morden, Manitoba, Canada 13th District, 1999
	<b>Jim Wasson, DVM</b> Armour, South Dakota 9th District, 2001	

## REPRESENTATIVE TO THE AVMA HOUSE OF DELEGATES:

**Darrel E. Johnson, DVM**  
Weyauwega, Wisconsin

**James A. Jarrett, DVM**  
(alternate)

## EXHIBITS MANAGER:

**Samuel Hutchins, III, DVM**  
South Barre, Vermont

## ADVERTISING AGENCY:

**Veterinary Learning Systems**  
425 Phillips Boulevard #100  
Trenton, NJ 08618-1496  
913-451-3475 Fax: 913-451-3929

THE BOVINE PRACTITIONER is published by the American Association of Bovine Practitioners, Inc., at **Frontier Printers, 205 W. 9th, Stillwater, OK 74074 (Tel: 405-372-8500; FAX 405-372-8523)**. Over 6000 copies are mailed to veterinarians engaged in cattle practice and allied institutions. Send new address (please include old address) to:

**Dr. James A. Jarrett, Exec. Vice President, AABP, P.O. Box 1755, Rome, GA 30162-1755**  
Tel: 1-800-269-2227; FAX 706-232-2232  
e-mail: [aabphq@aabp.org](mailto:aabphq@aabp.org)  
<http://www.aabp.org>

THE BOVINE PRACTITIONER is the official publication of The American Association of Bovine Practitioners, published in January and May annually. It also serves as a communication medium between bovine practitioner organizations around the world. All manuscripts and communications must be presented in English.

Copies of THE BOVINE PRACTITIONER are available to non-members for \$25.00 per copy, surface mail, or \$30.00, airmail (overseas).

# Table of Contents

✓ Acute Fluoride Toxicosis in Beef Cattle – K. Bischoff, W.C. Edwards, James Fearer .....	1
Clinical Report - Atypical Rabies in a Cow – Charles L. Stoltenow, Larry A. Shirely, Tyler Jones, Charles E. Rupprecht .....	4
The Efficacy of <i>Serpens</i> spp Bacterin Combined with Topical Administration of Lincomycin Hydrochloride for Treatment of Papillomatous Digital Dermatitis (Footwarts) in Cows on a Dairy in California – Steven L. Berry, Thomas W. Graham, Andrea Mongini, Marit Arana .....	6
✓ Clinical Immune Response to Experimental BHV-1 Challenge of Cattle Treated with Florfenicol at the Time of BHV-1 Vaccination – Breck D. Hunsaker, Louis J. Perino, Kelly F. Lechtenberg, Jeeri Reddy .....	13
Comparison of Three $\alpha_2$ -antagonists, Yohimbine, Tolazoline, or Atipamezole for Reversing the Anesthetic Effects of Medetomidine and Ketamine in Dairy Calves – Hui-Chu Lin, M. Gatz Riddell, Fred J. DeGraves .....	21
✓ Standardized Performance Analysis (SPA) Part 2: What Do the Financial Numbers Mean? – Shan Collett .....	29
Risk Assessment – Douglas Powell .....	37
✓ Clinical Signs, Diagnosis, and Prevention of Bovine Leptospirosis – CA Bolin, DP Alt .....	50
✓ Clinical Efficacy of Enrofloxacin Against Bovine Respiratory Disease Comparing Different Treatment Regimens – M Hamm, T Wollen, R Highland, J Davidson, T TerHune, K Lechtenberg, M Apley, D Miles, M Wray, D Bechtol, A Waite, E Johnson, P Scott, D Copeland .....	56
✓ Evaluation of the Dosage of Tilmicosin for the Treatment of Acute Bovine Footrot (Interdigital Phlegmon) – JK Merrill, DW Morck, ME Olson, CP Dick .....	60
The Association Between Selected Metabolic Parameters and Left Displaced Abomasum in Dairy Cows – T Geishauser, K Leslie, T Duffield, V Edge .....	63
Role of Early Pregnancy Diagnosis by Means of Ultrasonography in Improving Reproductive Efficiency in a Dairy Herd: A Retrospective Study – O Szenci, J Varga, ACs Bajcsy .....	67
Atresia Coli in Calves: Etiopathogenesis and Surgical Management – PD Constable, JC Huhn, DE Morin, DR Nelson .....	70
Pooled Faecal Samples Compared with Individual Samples for Detection of Salmonella in Cattle – Sirikka-Liisa Kivelä, Olli Ruoho, Eija Seun, Eeva-Liisa Hintikka .....	74
Environmental Accidents: The Assessment of the Significance of an Environmental Accident Due to the Distribution of Lead-Contaminated Feedstuffs to Several Hundred Cattle Farms – WM Allen .....	76
✓ Sickness, Mortality, and the Buller Steer Syndrome in a Western Canadian Feedlot – LF Taylor, CW Booker, GK Jim, PT Guichon .....	80
✓ Objective Classification of the Bovine Respiratory Complex into Different Levels of Severity – J Coghe, Ch Uystepuyst, F Bureau, ML Van de Weerd, P Lekeux .....	85
AABP Convention News and Highlights .....	i - xxxii

## Advertisers Index

Bayer Corporation .....	94, 95, 96
Elanco Products Company .....	front of book, 28
Grand Laboratories .....	12, 93
Pfizer Animal Health .....	inside front cover
Pharmacia & Upjohn Inc. ....	84, outside back cover

*Cover photos courtesy of  
Dr. Jim Jarrett (dairy), Rome, GA,  
Dr. Larry Rice (cow-calf), San Antonio, TX,  
Dr. Bob Smith (stocker), Stillwater, OK  
and Mike Hunter, (feedlot), Texas County Feedyard, Guymon, OK*