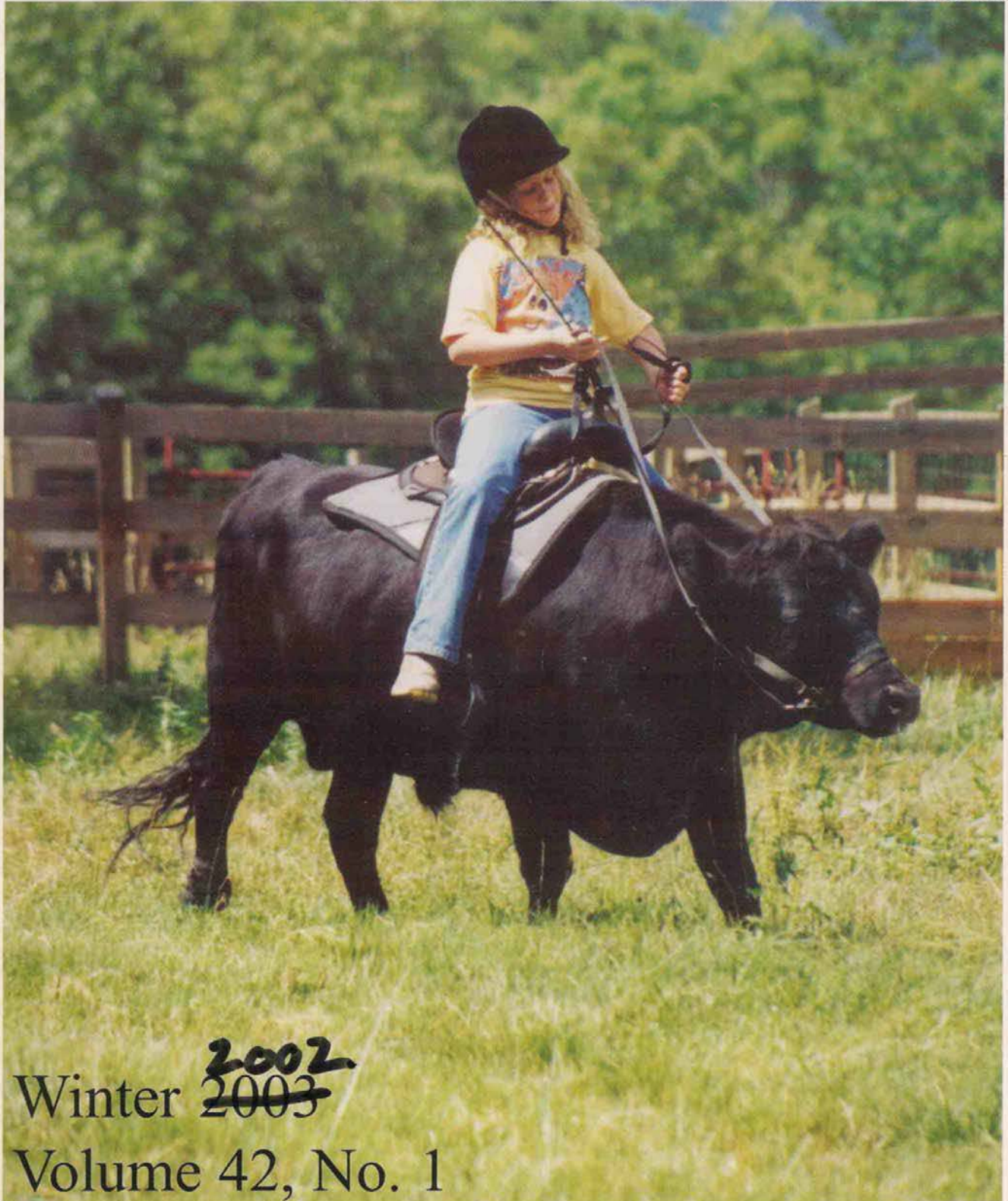


The Dexter Bulletin

Official Publication of the American Dexter Cattle Association



Winter ~~2003~~ ²⁰⁰²

Volume 42, No. 1

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American Dexter Cattle Association

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Term expires 11/2002

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Term expires 11/2002

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Region 14: Michigan, Ontario, Quebec, Eastern Provinces

Term expires 11/2002

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Message from the President

I welcome this opportunity to serve as President of the ADCA. I come to this position having served as a Regional Director for New York and New Jersey, and then Vice President. During my tenure as VP, I worked on the advertising campaign that I hope has done some good for the breed as well as the breeders. I sincerely urge every member to consider service in some capacity in the Association. It is another way to work with Dexters.

My husband, Bob, and I have had Dexters since 1989. Our herd is small, but our intentions are big. If we could win one of those state lotteries, I'd have hundreds of everything furry. Yet we've made the decision to have a small herd so we can spend time with the calves as they're born and maintain work with the adult stock. One of our particular interests has been having Dexters for oxen. Tom, Dick, Harry, and Curly are nearly ten years old and have given us a great deal of pleasure. They've also hauled a great deal of manure!

Our motivation in getting Dexters was to do something for a rare breed and put livestock back on our small farm in central New York State. We've been members of the American Livestock Breeds Conservancy (ALBC) for nearly all of its 25 years of existence. Dexters fit in both categories. They have been little four-legged weed and bush-whackers. Farms need livestock as much as livestock need farms. Dexters are also listed as rare by the ALBC. It feels good to help a breed survive.

Maintaining a viable breed organization can make or break a breed. The ADCA has definitely moved from a few individuals getting together to just keep the Association going. We now have a well-structured

organization working to meet the needs of the breed and the breeders. Each year the annual meeting is bolstered by the show and sale. The importance of the social aspect of the annual meeting can't be disregarded. It is important for us to get to know each other. If it is at all possible, please plan to attend this year's event in Oklahoma. Joanie Storck and others in Region 6 are hard at work bringing this meeting together. If you can't bring animals, do try to enter the video show.

Any association is only as good as the members who value it and work to keep it vital. Surely service to the organization is important, but the everyday with-it-ness is at the core of the breed's success. I can't stress enough how important it is to keep accurate records regarding breeding, calving, and registrations. Rosemary Fleharty, our Secretary-Treasurer, is available to answer questions about paperwork. She has years of experience and remains one of the consistent factors in our success. File those applications for registry as soon as you're sure whether the animal is for breeding or eating. Send in the transfer information expeditiously.

It's often behind the scenes, but efforts are underway by the directors and officers. The Regional Directors are reviewing By-Laws and Rules and Regulations that have been drafted by Donna Martin in North Carolina. As new science comes along, the ADCA Board and officers certainly try to utilize it to protect and improve the breed. Being able to access pedigrees on-line is something for which we are striving.

Elections are going on at the time of this writing. A number of regions will see new leadership in the coming year. Our new Vice President, Stan Cass of Ohio, is working with Rosemary Fleharty to count the ballots. Stan is also taking an active role with various committees. Mark Muir and Patrice Lewis are bringing new ideas to

COVER PHOTO

Ten-year-old Jessica Tobey, granddaughter of Donna Martin and Robert Tobey, takes a ride on Kasper. The steer is eight years old and trained to the yoke. He's obviously trained to kids as well!

Continued on page 4

President's Message, con't

advertising and promotion, and the Bulletin, respectively. We continue to grow.

Absolutely the best thing that we have in the ADCA is the cattle - horned, polled, black, dun, red, tall, and short. There's enough variety there to suit everybody's needs and tastes. Dexters must top the list as our primary concern, the focus of our efforts. The next best thing that we have is each other. By networking, we can share ideas as well as cattle and potential buyers. When I get calls from too far away, I do my best to refer people to someone closer. The important thing is that they buy a Dexter, whether it's from us or somebody else; that's the real priority.

Working together works for Dexters.

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Vice-President's Message

Greetings from Ohio: the recent rains have started to refill the pond, and the Dexters are doing well enjoying some green grass mixed with some round bales. The election of regional directors is going on in full swing as my mailbox has started bulging with the ballots that are flowing in from various areas of the country (and here I thought y'all were sending your Christmas greetings early!). The interest in Dexters continues to grow; we need to continue to grow as an association as well. Committees are alive and working; the show and sale committee chaired by Pat Mitchell has forwarded its rough draft for comments. Please encourage the rest of this year's committees by sending comments or questions to the appropriate chairman: Classification, Wes Patton; Genetics, John Potter; Promotional Items, Mark Muir; Rules and Regulations, Donna Martin; Science, Wes Patton; Technology, Rosemary Fleharty; Video Show, Wes Patton; Website, Mark Muir; and Redistricting of Regions, Donna Martin. Let's keep the lines of communication open as Kathy, Rosemary, and myself team together to share the leadership load for 2003.

Excellent Books for your Home Library

- A Guide to Raising Livestock
- Heather Smith Thomas
- About Cows
- Sara Rath
- Keeping Livestock Healthy
- N. Bruce Haynes, DVM
- The Family Cow
- Dirk van Loon
- The Complete Cow
- Sara Rath
- A Field Guide to Cows
- John Pukite
- Your Calf: A Kid's Guide to Raising and Showing Beef and Dairy Calves
- Heather Smith Thomas

And don't forget to subscribe to
Countryside and Small Stock Journal!

Secretary's Report

The Dexter World Congress was informative and the weather was great—springtime. Wes Patton and I saw some very outstanding Dexters at the show. Most important, the announcement was made of the availability of a **DNA test for bulldog dwarfism**. The first half of the paper that was presented at the Congress is included in this issue of the Bulletin. At the present time we do not know how soon this test will be available here. Julie Cavanagh is investigating several sites where it may be possible to have the testing done, including a site in the U.S.A. Further presentations from the Congress will be available in upcoming Bulletins as we receive permission to reprint them.

After reading the first half of the paper by Julie Cavanagh, you will understand the importance of **having your animals classified**. Having this additional information along with the DNA test will allow breeders to select small genetic disease free (from chondrodysplasia) bulls. Please contact the ADCA and schedule your herd to be classified in 2003. (The ADCA has been offering a Classification Program for the last two years.)

The U.S. is awaiting confirmation of the next **Dexter World Congress** and will be bidding to host the event. More information will be available as your officers continue to pursue this effort.

Information on the **On-Line Pedigree system** should be available shortly. All information for a bid will be forwarded to Directors for a determination of a company to perform this service. We hope to have this new service available early in 2003.

It appears we are having some problems with the U.S. Postal system. **Please make copies of all registration applications prior to sending them.** Some paperwork is getting lost in the mail - one Director sent in \$500 worth of paperwork that I never received. And, some members are not getting their paperwork returned. Please let me know if you have not received paperwork in a timely manner. I try to get all paperwork done in a two to three-week time period but if you have not received it after one month, please check.

Herdbook information will be sent out shortly. Herd listings will only be shown in the herdbook **if you return your herd listing. Please check this information carefully—make sure your address and phone number are correct. Too often we do not receive**

changes of telephone area codes and 911 addresses. The membership booklet is sent to all inquiries, so be certain your information is correct. Also, all membership fees are due on January 1. If you have not sent in your dues of \$20, please do so as soon as possible. **You will not receive a separate notice on expiration of dues - this is your notice.** This will assure that you receive all pertinent information and Bulletins. Membership fees are on Page 22.

When sending in applications for registration, please check them over carefully to make sure they are correct. Make sure your handwriting is clear so I do not make errors on your certificates. Sometimes I have to guess at names, numbers, etc. This causes errors and delays getting certificates to you. And, remember **if paperwork must be returned due to errors on the breeder's part, there will be a \$10 additional fee.**

If you are not receiving responses to e-mails, please check for a virus on your computer. My computer will not open any e-mails with viruses, and it quarantines them so I do not know whom they are from.

ADCA Logo - In the last mailing you received, there was a vote called for on the current logo. The Board determined that the entire membership should have a vote if the logo should be changed. A total of 43 people returned the ballot. The Board made no determination as to how the non-returned votes should be counted. For those of you who have participated in marketing classes, the common result from most marketing surveys that are not returned do not indicate either a positive or negative vote. In this case, of the votes returned, 41 voted to keep the current logo and 2 voted to have the logo changed.

If you have questions at any time, feel free to contact me. We try to help any way we can. If you feel we have not helped you, try us again. We are here to serve you.

Rosemary Fleharty
ADCA Secretary

Your Dues are Due!

Dues for all members and associate members expire December 31.
Please renew by January 1!

Promotional Items

I want to thank the Board of Directors and Officers of the ADCA for electing me to the position of Advertising Promotional/Website Coordinator.

I plan on promoting The American Dexter Cattle Association in a positive and timely manner. This includes keeping the website current and receptive to our members' ideas. One such idea was to have a separate listing for livestock shows in

which Dexters will be shown. I also believe we need more people wearing apparel that boasts the Dexter logo. As members of the ADCA we all enjoy talking to people about our animals, and I would like to use our more than eight hundred members as moving billboards to promote Dexters.

The selection of hats and shirts has changed, and so have the prices. Prices do not include shipping. Please

make checks or money orders out to ADCA, and mail them with your order to my address listed below.

Please consider the denim shirts for other uses besides fairs. Wear them to work! Other ideas for promotional items are welcome for discussion.

Mark Muir

10509 Rte 6
Union City, PA 16438
(814) 438-2185
markedlyn@cs.com

T-shirts

Fruit-of-the-Loom • 5.6 ounces • 50/50 Blend (easier to clean out stains)
Full Dexter head logo
Ash gray w/black logo
Small, medium, large, X-large, XX-large
\$10.00

Hats

Assorted Colors,
with Dexter logo
\$8.00

Shipping

1 to 3 items	\$ 5.00
4 to 8 items	\$ 8.00
9 to 12 items	\$12.00

Denim Shirts

Embroidered head (please specify
either red or black head)
Short sleeved - **\$25.00**
With your farm name - **\$30.00**
Long sleeved - **\$28.00**
With your farm name - **\$33.00**

Crew Sweatshirts

Medium weight • 90/10 Blend • Full Dexter head logo
Ash with black logo
\$20.00

Hooded Sweatshirts

Medium weight • 90/10 blend • Full Dexter head logo
Ash with black logo
\$25.00

Deadlines

Deadlines for submission of articles, photos, and advertising for the Bulletin are as follows:

Spring Issue
February 15
Summer Issue
May 15
Fall Issue
August 15
Winter Issue
November 15

Ideally the Bulletin should be mailed around:

Winter Issue - Dec. 15
Spring Issue - March 15
Summer Issue - June 15
Fall Issue - Sept. 15

2003 Annual General Meeting

Region Six is hosting the 2003 Annual General Meeting. The committees are working on details, but here is the general information:

The meeting will be held in Stillwater, Oklahoma at the Payne County Expo Center. The dates are July 18, 19, 20. We have an air-conditioned hall right next to the show and sale arena for our meetings, meals, and gatherings. We have 10 x 15' booth rentals available to vendors. Already the Missouri Dexter Breeders have reserved a space, and we are waiting on confirmation on a home-made ice cream vendor (yum!). If you know of a vendor that would like to have space to sell their wares, have them contact Pam Malcuit (936)394-2606 or

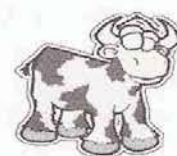
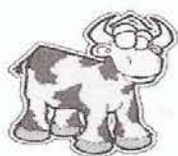
Joanie Storck. These can be animal care products, candles, leather goods, food products, etc.

The Show and Sale will be held on Saturday morning (before it gets too hot). The General Meeting will be in the air-conditioned meeting room adjacent to the show ring, following the morning activities.

There will also be a presentation on the Dexter feedout by Fred Ray of the Animal Science Department of Oklahoma State University.

For more information, contact Joanie Storck at storckranch@yahoo.com or (316) 524-0318.

There will be more information in each newsletter. Plan on attending!



Committees

Advertising

Mark Muir (PA), Chair

Classification

Wes Patton (CA), Chair
Marvin Johnson (KS)
Dean Fleharty (MO)
Mark Muir (PA)
Sandi Thomas (OR)

Genetics Committee

John Potter (MI), Chair
Rosemary Fleharty (MO)
Gary Williams (ME)
Sandi Thomas (OR)

Finance

John Foley (MO), Chair

Special Funding

Open

Promotional Items

Mark Muir (PA), Chair
Stan Cass (OH)
Joanie Storck (KS)
Anna Poole (OR)
Donna Martin (SC)

Rules and Regulations

Donna Martin (SC), Chair
Stan Cass (OH)

Science

Wes Patton (CA), Chair
Dean Fleharty (MO)

Technology

Rosemary Fleharty (MO), Chair
Sandi Thomas (OR)
Chuck Daggett (MN)

Video Show

Wes Patton (CA), Chair
Jane Patton (CA)

Website

Mark Muir (PA), Chair
Oogie McGuire, Webmaster

Show & Sale

Pat Mitchell (MI), Chair
Mark Muir (PA)
Sandi Thomas (OR)
Dean Fleharty (MO)
John Foley (MO)
Joanie Storck (KS)
Wes Patton (CA)

Redistricting of Regions

Donna Martin (SC), Chair
Rosemary Fleharty (MO)
Stan Cass (OH)

News from Yonder

Cathy Braswell, Region 8

1040 Bass Cross Rd.
Hogansville, GA 30230
(706) 637-8767

This summer we have had some rain, but the amount has not been enough to really help the grass. Our Agriculture Secretary has sent a letter to the Governor asking that we be declared in a state of disaster because of dry pastures, lack of hay, and the beginnings of a problem with army worms and other insects. Almost immediately after this announcement, the price of hay went up and any critter that eats it went down. Hopefully we have enough hay lined up to do for the winter. I believe we'll be okay, but it doesn't hurt to trust in the Almighty to take care of us. A lot of folks in our area have had wells go dry, and so far we have been blessed with having enough to water stock and get a bath every couple of days. One of the Farmer's Almanacs says that September will be wet, so maybe it's darkest before the storm. I guess that old saying really fits this time. As far as cattle prices, at the moment it seems the commercial herds are being affected the most. The U.S. herd has been drastically reduced over the last few years, but a lot of it varies by region. But it has always gone in cycles, so if you're in it for the long haul, it will average out for you.

I realize that we all stay pretty much up to the eyeballs in work, but if we can help each other out, it might go a little easier. I mentioned use of scrap lumber awhile back, and a good source is pallets. Some places either throw them out or will give them away. Check with your hardware or feed store to see if they have to return them or get rid of them. They make good hog pens, shelves, chests, and cabinets. Just use your imagination. In these days it is a good thing to be a scrounger. One man's trash is another's treasure; or, as we used to say, Use It Up, Wear It Out, Make It Do, or Do Without. Any of ya'll that needs plans for the banana box brooder (never before offered to the public) can either drop me a line or leave a message on the machine.

Things Don't Always Go As Planned

Donna Martin, Region 8

The Annual Logging and Sawmilling Field Day (weekend) was held in October in Union Mills, North Carolina. Since we live not far from North Carolina, we packed up our eight-year-old steer, Kasper, his yoke and harness, and headed for his first day actually logging. Kasper had attended Drew Conroy's Ox Training Workshop in North Carolina last year and was ready to show his stuff.

We arrived a little late, and it took me some time to figure out how the harness worked, so we were late in following the dozen or so draft horses that had headed for the logging area. Kasper being the only ox present was quite an attraction, and I was looking forward to packing out a big log. We headed in the direction the horses had taken, but eventually took a wrong turn and ended up in a field with a Belgian "guard" horse and twenty-five cattle. They all came running to see what this little steer was doing all decked out and dragging a singletree. I started to panic, but Kasper remained cool and the other animals eventually wandered off. We still had no clue where the horses went, so we returned to camp without a log.

I was looking forward to the next day's activities, including keeping up with the horses. Kasper, however, got homesick or frightened during the night, since the guard horse was wandering around, and at 4:00 a.m. my husband and I were still up trying to pacify him. The next morning, with no sleep and a jumpy steer, we decided to pack up our wet gear (yes, it rained too!), and head home. The experience was one that you tend to remember, so all was not lost, and we look forward to going next year. We hope to do some real logging too!

Just So You Know...

The ADCA web page will be kept up to date! Check it out at:
www.dextercattle.org

American Livestock Breeds Conservancy 25th Anniversary Conference

Kathy Smith, President

On September 21 and 22 the American Livestock Breeds Conservancy (ALBC) held its 25th Anniversary conference at the Hancock-Shaker Village (HSV) in Pittsfield, Massachusetts. It was co-hosted by the New England Heritage Breeds Conservancy (NEHBC). For anyone even remotely interested in livestock, it was a feast for the eyes. There was a collection of rare livestock and fowl that filled several tents as well as the round stone barn on the HSV grounds. I'm proud to say that Dexters were well represented. We brought one bull calf, who became the "bad boy" in attendance. He was barely seven months old, but definitely acted more bull than calf when it came to PR work. (Shortly after his return home, his macho attitude was curtailed by a brief visit from the veterinarian.)

In addition to our rascal, cattle were exhibited by: Gary Williams of Sedgwick,

Maine; Arabella and Nat Dane of Center Harbor, New Hampshire; and Sally and Warren Coad of Woodbury, Connecticut. Sally Coad had worked particularly hard on having a table of Dexter promotional items and photos. It certainly represented us all very well.

Gary Williams brought a DNA-tested red bull, RFF Freedom's Aidan, which was sold to Sally and Warren Coad. Two steers went to the Cothey family of Massachusetts. The Cotheys have an educational farm, Tregelly's Fibers, of rare livestock and fleece/fiber animals. Various other animals were sold, with the average price for steers and bulls being \$1050.

As with all ALBC events, there were many great speakers and the fellowship of livestock enthusiasts. I would strongly urge anyone who sees an ALBC event in their area to attend. Exhibiting Dexters is certainly one of our best advertisements.



Sally Coad with Jubilee Farms Kayla and Daniel Dempsey with his purchased bull calf, Hillcrest's Mr. Henry.



Sally Coad brought out Jubilee Farms Kayla for some spectator petting. Kayla was treated to "cow cookies," aka alfalfa cubes, by some of the children in attendance.

2002 ADCA MEETING, SHOW & SALE

Wes Patton, Region 9 Director

The 2002 ADCA Meeting, Show and Sale was held in Medford, Oregon at the Jackson County Fairgrounds on August 2-4. Planning for this event began over two years ago and the committee, chaired by Anna Poole, put a lot of effort into making this year's event very enjoyable and educational for newcomers and veterans alike.

Things began Friday with a foot trimming service and demonstration. Most of us could definitely use this kind of service, especially before we show our animals, in order for them to be exhibited at their best. Depending on the type of ground they run on back at the farm, trimming may be needed to insure longevity and good production.

The afternoon was filled with demonstrations on animal health, linear scoring, artificial insemination, and pedigree software. The animal health demo was put on by a vaccine company representative who outlined a sound generic health program, and then spent a good deal of time answering questions specific to individual cattle and owners.

Jackson County Livestock Extension agent Randy White teamed up with Dean Fleharty and Wes Patton to demonstrate the use of linear scoring to improve cattle. The new ADCA Classification program was demonstrated

on a live cow with audience participation on the scoring of over twenty linear traits. computer spreadsheet was used to calculate an overall composite score. Members had a chance to see how the program would apply to the genetic improvement of their cattle and were reminded of the schedule for classification the rest of this year.

Kathy White then gave a very informative talk on the use of A.I. in cattle. Some of

The afternoon was filled with demonstrations on animal health, linear scoring, artificial insemination, and pedigree software.

our members are afraid to try A.I. because of rumored success rates, uncertainty of the procedure, and the lack of technicians in their area. Kathy pointed out that the chance for genetic improvement and success rates by qualified technicians outweighed the negatives in most cases. Many members do not have enough cows to justify owning a bull, and if they do, many times they cannot afford to own a high quality one. With A.I. estrous synchronization programs and superior genetics, the owners of one or dozens of cows can take advantage of

this system without having to be bothered with a bull.

A lot of our members are very interested in tracking the pedigrees of their cattle and in keeping production records. Sandi Thomas demonstrated a software program that she is using to make all of that quite simple and doable. She was able to use this program to generate the sale catalogue for this year's event. Those interested in this program should contact Sandi directly.

On Friday evening we were treated to a wonderful talk by Donna Rudd from Alberta on how the Canadian Dexter breeders teamed up to export a large group of cattle to Cuba. Her account of the whole process of gaining approval and then shipping the cattle was

very interesting, and pointed out the fact that group marketing to another country is certainly possible and expands the market for our cattle immensely.

In addition, during dinner on Friday evening, the FFA judging team from Crater High School served as official judges for the 2002 Dexter Video Show. These young people not only did an excellent job of placing the cattle, but they also did a super job of justifying their placings and gave us all a renewed appreciation for the quality of youth coming from some of the FFA programs in our

country. Willo Vieira of Quincy, California took home **Champion Bull** honors on **Glenn Land Black Butte**, while Anna Poole's **Lil Abner** was **Reserve Champion**. Sally Coad of Freedom Farms in Connecticut had **Champion Female** on **Yellowbird** and **Reserve Champion** on **Lithgow Hibernia**. She also had **first place Best Herd**, and Anna Poole had **second place Best Herd**.

The picture contest was a highlight for some, and everyone could vote on the winners. The **top photo** was turned in by Sandra Chaney on a picture of her herd bull, **Istanbull**.

Following dinner, the board of directors gathered to outline the agenda for the general meeting for Saturday morning.

The general membership meeting was held Saturday morning and was very productive. Each member should receive a copy of the minutes from the ADCA.

Saturday afternoon was devoted to the Sale Show, the Sale, and the Open Show. For sale animals, Chris Ricard of Idaho exhibited the **Champion Bull** on an outstanding young red bull, **Celestial IO**. **Reserve Champion** went to **Zediker Ranch Palm** of Zediker Ranch, Montague, California. Both **Champion** and **Reserve Champion Female** went to **Ms Crystal** of Glenn Land Farm, California. Bidding was active on many of the animals, and some went to new breeders while others went to established breeders who found just the right

genetics to add to their herds. The Open Show followed the sale. It allowed those who did not have animals in the sale to show theirs, and for those who purchased animals in the sale to show off their new ones. This was a great idea and created enthusiasm, especially for the new owners. **Champion Bull** was on Glenn Land **Mr. Redfire** shown by Wes Patton of California, **Reserve Champion** was on Glenn Land **Red Man** shown by his new owner, Anna Poole. Anna also came back and showed the **Champion Female** on her own **Liberty of HH**, while Charlee Graham of Washington had the **Reserve** on her **Nellie**.

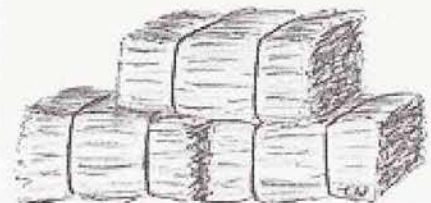
Saturday evening was the annual banquet with live music, a truly outstanding dinner, and the evening was capped off by the "White Dexter" auction of donated items to help cover the cost of the whole event. That turned into a lot of fun and those in attendance contributed liberally to the cause. Those who weren't able to haul cattle back home in their suitcases felt obligated to support the auction by purchasing Dexter-related memorabilia.

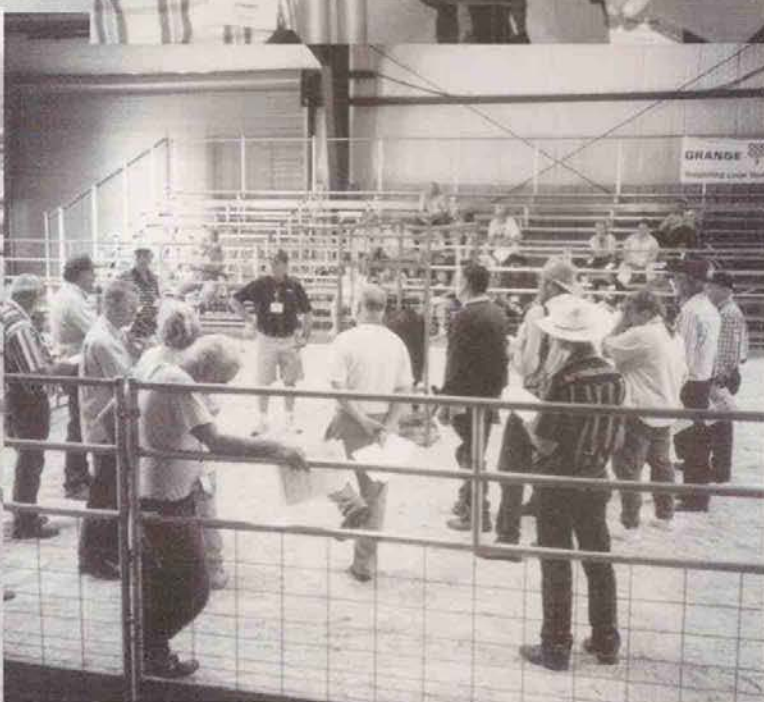
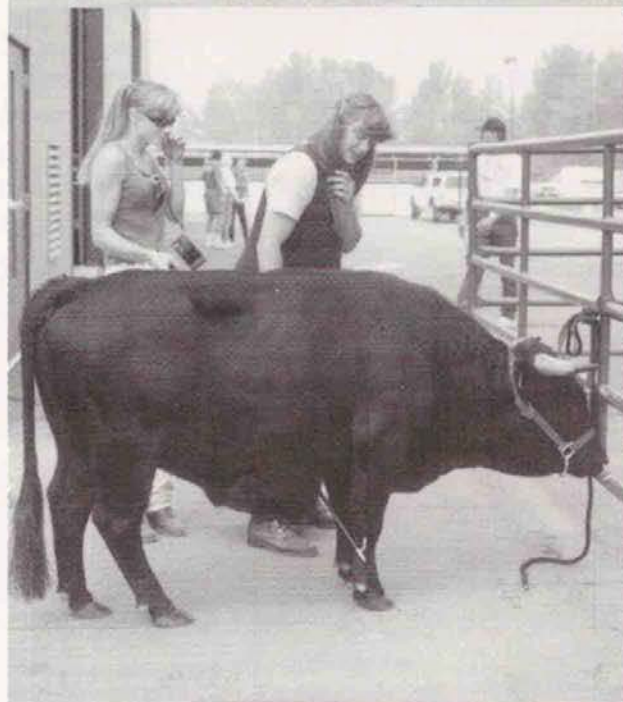
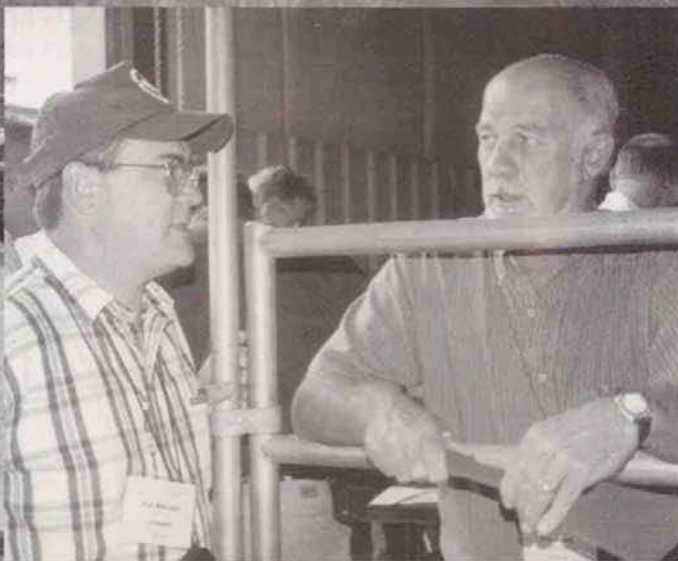
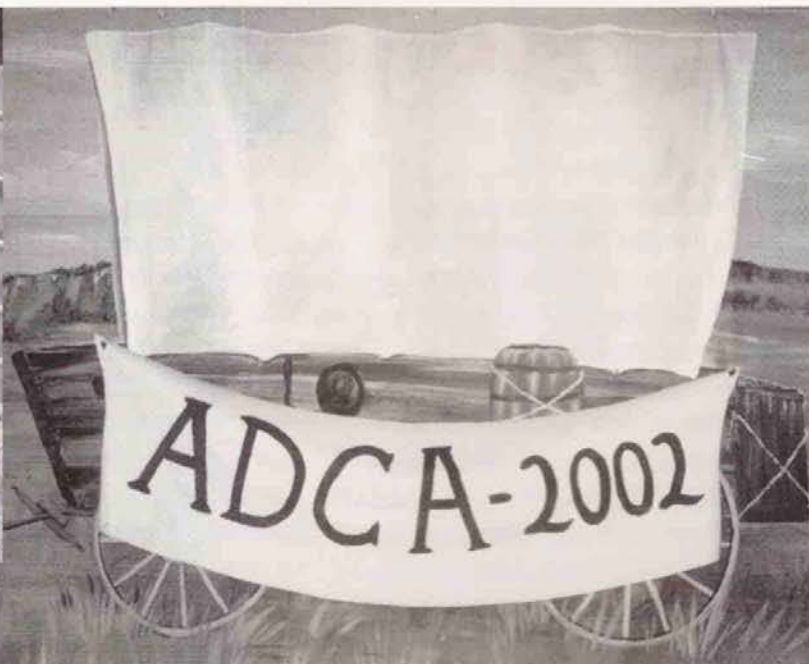
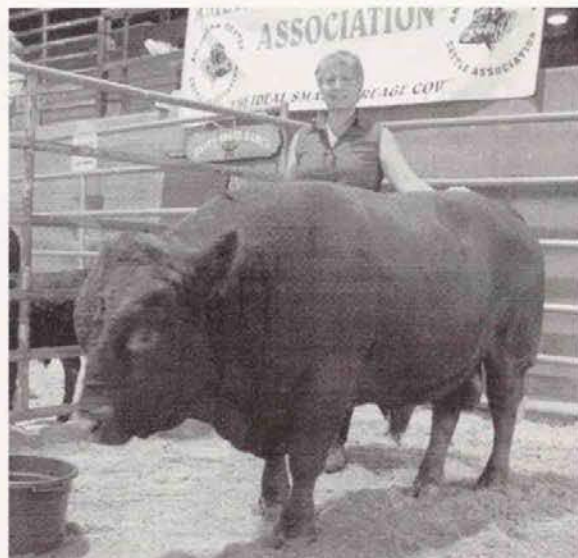
Sunday morning was set aside for the annual Board of Directors meeting which you can read in the Minutes. It was a very productive meeting which resulted in the board deciding to help send our Secretary-Treasurer, Rosemary Fleharty, to the World Dexter Congress in Australia. It was decided last

year to have Wes Patton represent the association at that meeting, so now we will have two representatives. Our delegation is working to team up with some other organizations here in the U.S. to invite Dexter breeders from around the world to come here for the next World Congress. More details on that later.

Kathy Smith was elected President, while Stan Cass became the new Vice President of the ADCA. Kathy had been doing all of the advertising, so Mark Muir took over those duties, plus he will be the monitor of the website. Please send Mark markedlyn@cs.com information that needs to be put on the website. Patrice Lewis (dlldesigns@wave.net) is our new Bulletin Editor. She has been doing the Northwest newsletter for awhile now and has done a super job. We are excited about her doing the ADCA Bulletin.

All in all, the 2002 ADCA meeting, show, and sale was a huge success. Many thanks to all of those who worked so hard to put it together and also to those who were able to come and/or participate by sending in pictures and videos. As you probably know, we are off to Oklahoma next year. Those folks down there have been practicing, so we expect another terrific Dexter event.





2003 TYPE CLASSIFICATION TOURS

Tour Dates	Days	Area	Send App by	App Due	Send for Herd Inv	# Apps Sent 2002 / 2003	Last Classifier	2003 Classifier
* January	14	AR, KS, MO	Oct. 15	Nov. 15	Dec. 10		BM, LJ	
	8	OK, TX	Oct. 15	Nov. 15	Dec. 10		JB	
* February	18	IA	Nov. 15	Dec. 15	Jan. 10		BS, BW, RJ	
	30	MN, NE, ND, SD	Nov. 15	Dec. 15	Ja. 10		DM, GH, RJ	
March	7	CT, ME, MA NH, RI, VT	Dec. 15	Jan. 15	Feb. 10	275	RJ	
	14	NY	Dec. 15	Jan. 15	Feb. 10		RJ, BM	
April	24	PA	Jan. 15	Feb. 15	Mar. 10	480	BS	
	12	DE, MD, NJ, VA, WV	Jan. 15	Feb. 15	Mar. 10		BS, JB	
May	14	OR, WA	Feb. 15	Mar. 15	Apr. 10	131	BS	
	7	ID, UT, MT, NV, CO, WY	Feb. 15	Mar. 15	Apr. 10		BS	
June	12	CA, AZ, NM	Mar. 15	Apr. 15	May 10	80	LJ, BM	
July	8	KY, TN	Apr. 15	May 15	June 10	325	JL	
	10	IN	Apr. 15	May 15	June 10		BW	
	10	IL	Apr. 15	May 15	June 10		RJ	
August	20	OH	May 15	June 15	July 10	315	BS, JB	
	6	MI	May 15	July 15	July 10		GH	
	7	AL, FL, GA, LA, MS, NC, SC	May 15	July 15	July 10		JL	
September	40	WI	June 15	July 15	Aug. 10	350	BS, BM, RJ, JL	
October	14	AR, KS, MO	July 15	Aug. 15	Sept. 10	225		
	8	OK, TX	July 15	Aug. 15	Sept. 10			
November	18	IA	Aug. 15	Sept 15	Oct. 10	350		
	30	MN, NE, ND, SD	Aug. 15	Sept 15	Oct. 10			
* December	7	CT, ME, MA, NH, RI, VT	Sept 15	Oct. 15	Nov. 10			
	14	NY	Sept 15	Oct. 15	Nov. 10			

Classifiers

No.

City

- | | | |
|-----------------------|-----|------------------|
| 1. BS George Harris | 056 | New Milford, CT |
| 2. BS Leonard Johnson | 114 | Edgerton, WI |
| 3. BS Bernard Monson | 092 | Gowrie, IA |
| 4. BS Roger Neitzel | 117 | Beloit, WI |
| 5. BS Ron Johnson | 073 | Ottumwa, IA |
| 6. BS John Batchelder | 071 | Orland, CA |
| 7. G Seth Johnson | 112 | Reynoldsburg, OH |
| 8. G. Brian Schnebly | 126 | Reynoldsburg, OH |
| 9. G. Bill Wachtel | 119 | Big Prairie, OH |
| 10. BS Jerry Luttrupp | 13 | Berlin, WI |

Please contact the
ADCA to get your
herd scheduled.

News From Directors

Region 2

Class on Introduction to Raising Dexter Cattle

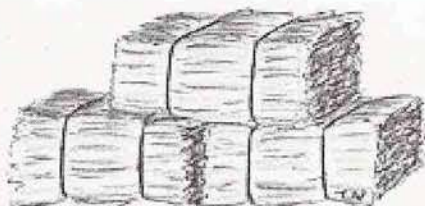
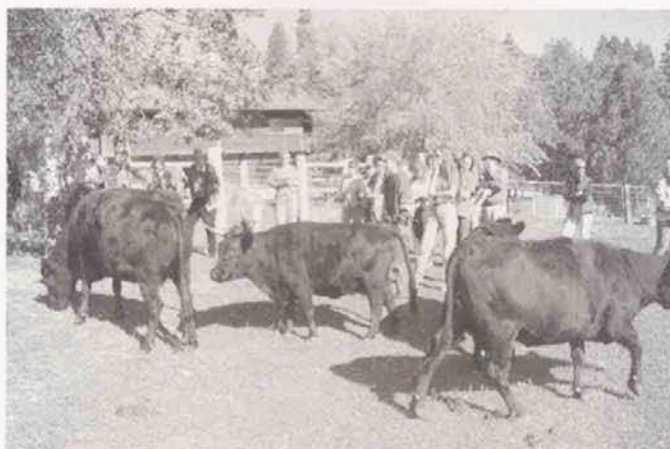
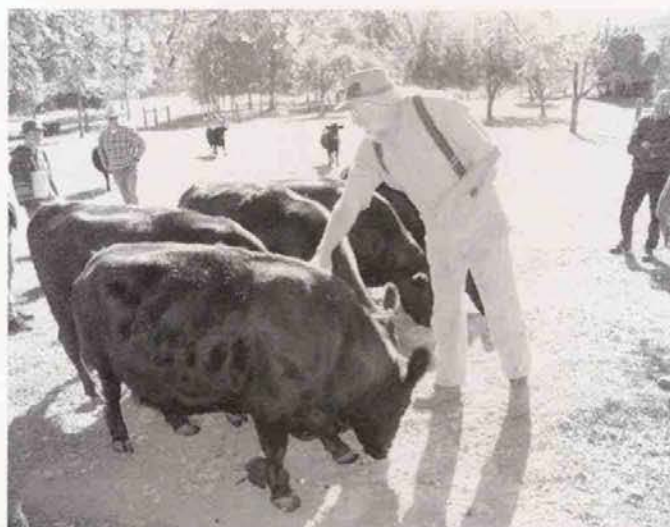
Anna Poole, Region 2 Director

Jack Shipley, along with Anna Poole and Josephine County OSU Extension agent Chris Lowell, gave an "Introduction to Raising Dexters" class October 19th at the Shipley's beautiful Rocky Creek Farm. Thirty-six people attended, and with Jack and Anna on opposite ends of the Dexter rainbow, there were answers for everybody's questions. The basics are the same if they are being raised for beef, milk, breeding stock, or just pasture pets. First and foremost, we pointed out the practicality of the breed. Their heartiness, manageable size, docile dispositions, and excellent meat and milk potential make them very appealing to a wide range of bovine enthusiasts.

After introductions and a very brief history of Dexters, one of Jack's beef customer told everyone about its delicious "fork tender" qualities.

Topics covered were: prices, nutrition, health, pasture management, birthing, butchering, hauling, registering, and everything else that came up. (A tremendous amount of information can be shared during informal classes.)

The Rocky Creek Dexters are real people-pleasers, and their friendly curiosity made even the skeptics fall in love with them. The twenty or so animals were all black and ranging in size - none were huge, and none were extremely small. Some were horned, some dehorned, and at least one was naturally polled. All were beautifully healthy, and apparently very happy little beasties.



News From Directors

Region 8 Redistricting our Region

Donna Martin, Region 8 Director

This year members in Region 8 have suggested dividing the Region due to a significant increase in members and the large geographical area it covers. Region 8 currently includes nine states. Recommendations for dividing the area have included:

Region 8: NC, SC, GA, FL, AL,
part of TN (Eastern time zone)
Proposed New Region: AR, MS, LA,
part of TN (Central time zone)

The ADCA Bylaws state that a review of

Regions can be made every six years. Since Region 8 is currently thinking about restructuring, it was decided at this year's AGM in Oregon that a committee be established to look at all Regions. As Director of Region 8, and the one who brought this issue up, I was given the task of Chairing this Committee. I would like for members in all Regions to contact their Directors and let them know what you think about your Region. The Directors can then inform the Redistricting Committee, and a proposal can be presented for a vote by the general membership.

Region 4 Exhibit and Show Results ♦ Utah State Fair 2002

Carol Ann Traynor, Region 4 Director

Judge

Craig Burrell, Provo, UT

Champion Heifer

Adaline - Dawn Bittner

Reserve Champ. Heifer

Dixie - Dawn Bittner

Champion Cow

Dahlia - Lyle Coombs

Reserve Champion Cow

Fiesta - Carol Kennedy

Grand Champion Cow

Dahlia - Lyle Coombs

Reserve Gr. Champ. Cow

Adaline - Dawn Bittner

Cow-Calf Pair

1st

Dahlia/Duet -

Lyle Coombs

2nd

Rosita/Magnolia -

Neil Sorensen

3rd

Whimsy/Lance -

Neil Sorensen

4th

Julia/Dinah-Mite -

Neil Sorensen

5th

Cocoa/Molly -

Carol Kennedy

Bulls

Junior Champion

Onslow - Chuck Welle

Junior Reserve Champion

Lance - Neil Sorensen

Senior Champion

Freddy - Jason Jacobs

Grand Champion

Onslow - Chuck Welle

Reserve Grand Champion

Lance - Neil Sorensen

Herdsman Award

Chuck Welle

Junior Herdsman

Kylie Hales

Junior Showmanship

Braidan Coombs

Region 9 G'Day, Mate!

Wes Patton, Region 9 Director

Your Regional Director, Wes Patton, is in Australia and will have a complete report for the March issue. We went to Australia for the World Congress where I represented the ADCA and gave two reports at the Congress and Jane sat in for Rosemary Fleharty until she was able to get to the

conference. We have stayed on in Australia as I took a sabbatical leave from the university to study Australian Agriculture. We will be there and in New Zealand until mid-January. We have visited many Dexter breeders and have some interesting pictures and reports to give when we get back.

News From Directors

Region 6 Kansas State Fair Results

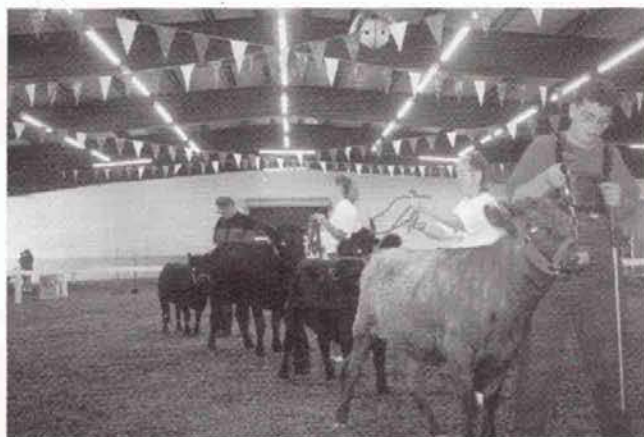
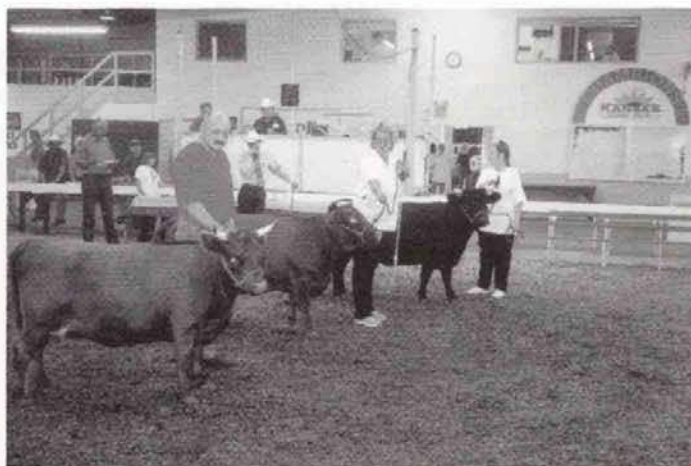
Joanie Storck, Region 6 Director



Early Heifer Calf	SJ Susie	CR Dexters	Craig Rodenberg
Grand Champion Young Heifer	SJ Susie	CR Dexters	Craig Rodenberg
Late Yearling Heifer Calf	White O Morn Aliah	White O Morn Farm	Brenda Stringham
	Rainbow April	Happy Viking Ranch	Tom Olsen
Early Yearling Heifer Calf	Hammers Abagale	Bohl Farm & Ranch	Shellie Bohl
	Rainbow Janet	Little Ark Ranch	Sandra Wilson
	Rainbow Josie	Little Ark Ranch	Sandra Wilson
Grand Champion Heifer Calf	Hammers Abagale	Bohl Farm & Ranch	Shellie Bohl
Reserve Champion Heifer	Rainbow Janet	Little Ark Ranch	Sandra Wilson
Two-Year-Old Heifers	LF Fiona	Rainbow Ranch	Joanie Storck
	Rainbow Hills Sweetie Sue	Sanderosa Ranch	Marge Geiger
Aged Cow	Rainbow Hills Alana	White O Morn Farm	Brenda Stringham
	Rainbow Hills Red Beauty	White O Morn Farm	Brenda Stringham
	Rainbow Hills Kylie	White O Morn Farm	Brenda Stringham
Aged Cow in Pen Class	Hammers Ida	CR Dexters	Craig Rodenberg
Grand Champion Mature Cow	Rainbow Hills Alana	White O Morn Farm	Brenda Stringham
Reserve Champion Mature Cow	LF Fiona	Rainbow Ranch	Joanie Storck
GRAND CHAMPION FEMALE OF THE BREED	Hammers Abagale	Bohl Farm & Ranch	Shellie Bohl
RESERVE CHAMPION FEMALE OF THE BREED	LF Fiona	Rainbow Ranch	Joanie Storck
Cow-Calf Pairs	White O Morn Diva	White O Morn Farm	Brenda Stringham
	by Rainbow Hills Noel		
	Rainbow'dacious II	Rainbow Ranch	Joanie Storck
	by LF Fiona		
	S R Little Ricky	Sanderosa Ranch	Marge Geiger
	by Rainbow Hills Sw'tie Sue		
	Mr. Moon	Bohl Farm & Ranch	Shellie Bohl
	by SJ Alice		
Late Bull Calf	SR Little Ricky	Sanderosa Ranch	Marge Geiger
	Rainbow'dacious II	Rainbow Ranch	Joanie Storck
Early Bull Calf	Rainbow'dacious	Rainbow Ranch	Joanie Storck
	Bohls Mighty Joe	Bohl Farm & Ranch	Shellie Bohl
	SJ Go Go Scotty	BR Dexters	Craig Rodenberg
Grand Champion Young Bull	Rainbow'dacious	Rainbow Ranch	Joanie Storck
Reserve Champion Young Bull	Bohls Mighty Joe	Bohl Farm & Ranch	Shellie Bohl
Late Yearling Bull	Rainbow Hills Fireman	White O Morn Farm	Brenda Stringham
	River Bend Rascal	Little Ark Ranch	Sandra Wilson
Early Yearling Bull	Wolfes BJ T-Bone	Sanderosa Ranch	Marge Geiger
Grand Champion Yearling Bull	Rainbow Hills Fireman	White O Morn Farm	Brenda Stringham
Reserve Champion Yearling Bull	Wolfes BJ T-Bone	Sanderosa Ranch	Marge Geiger
Aged Bull in Pen Class	SJ Albert	Bohls Farm & Ranch	Shellie Bohl
GRAND CHAMP BULL OF BREED	Rainbow Hills Fireman	White O Morn Farm	Brenda Stringham
RESERVE CHAMP BULL OF BREED	Wolfes BJ T-Bone	Sanderosa Ranch	Marge Geiger
GRAND CHAMPION STEER	Rainbow Andy	Rainbow Ranch	Joanie Storck

News From Directors

Region 6 Kansas State Fair Results



News From Directors

Region 1

Missouri Dexter Breeders Association 2002 Show & Sale

John Foley

The first Missouri Dexter Breeders Association Show and Sale was held on June 1, 2002 in Marshfield, Missouri. The quality of the animals for the show and sale was excellent. There were 27 animals for sale and 28 animals for show. There were buyers from seven states: Missouri, Illinois, Iowa, Indiana, Arkansas, Oklahoma, and Mississippi. Buford and Helen Kanatzar donated a bull calf for sale to offset the cost of the show (thank you, Buford and Helen!). There were 15 Yearling Heifers for the Show, and so the class was divided into two divi-

sions. You will notice on the results that the class has two first, two seconds, and two thirds; this is due to having two divisions. Plans are already in process for the 2004 Missouri Dexter Breeders Association Show and Sale. A 2003 Show and Sale was cancelled due to the ADCA Annual Meeting with a Show and Sale being in Stillwater, Oklahoma next year. The Missouri Dexter Breeders Association would like to thank both the sellers for the quality animals and the buyers for their purchase of the animals.

Class	Animal Name	Owner's Name, State	Show Place	Buyer's Name, State	Sale Price	Champions
1	RFF Exposition	Gary Williams, ME	1	Joseph Gemma, MO	\$1000	Grand Champion Male
2	Cushings Lil Valentino	Reid's Great Escape, MO	2		No Sale	
2	Olympus of JP Farms	JP Farms, MO	1	Bart D. Phipps, MO	\$875	Reserve Champion Male
3	Boulder Fork O'Riley	Boulder Fork Farm, MO	2		No Sale	
3	Birchwood Billy Boy	Roger Lein, AK	1	Jeff Yearington, IA	\$500	
3	Boulder Fork Orion	Boulder Fork Farm, MO	3		No Sale	
5	B & H Spring Dandy	Buford Kanatzar, MO	1	Steve Krysiak, MO	\$1210	
6	June Dawn	Boulder Fork Farm, MO	1	Bart D. Phipps, MO	\$1300	
6	B & H Betty	Buford Kanatzar, MO	2	Larry Petty, MO	\$500	
7	Shadow's Noel	Boulder Fork Farm, MO	1	James Berlin, MO	\$950	
7	Nessa of Green Valley	Boulder Fork Farm, MO		Bart D. Phipps, MO	\$900	
7	Shadow's Nora	Boulder Fork Farm, MO		Bart D. Phipps, MO	\$900	
7	B & H Rose Blossom	Buford Kanatzar, MO		Charles Brocar, OK	\$575	
7	B & H Black Pearl	Buford Kanatzar, MO	3	Ernest Uchtman, AK	\$770	
7	Jubilee Farms Dolly	Reid's Great Escape, MO			No Sale	
7	Ophelia of JP Farms	JP Farms, MO	1	Joseph Gemma, MO	\$1350	
7	Orian of JP Farms	JP Farms, MO		Sarah Davis, IL	\$950	
7	Oletta of JP Farms	JP Farms, MO		Bill Werner, IL	\$1030	
7	Olivia of JP Farms	JP Farms, MO		Sarah Davis, IL	\$1050	
7	Opal of JP Farms	JP Farms, MO		Charles Brocar, OK	\$1500	
7	Birchwood Ellie Mae	Roger Lein, AK	3	Sarah Davis, IL	\$1480	
7	Shome Zora 57	Dean & Rosemary Fleharty, MO		Bill Werner, IL	\$875	
7	White-oo-Morn Kaylee	Dean & Rosemary Fleharty, MO	2	Show Only		
7	Birchwood Meggie	Roger Lein, AK	2	Lowell E. Allen, IA	\$1210	
8	Fanny's Great Escape	Reid's Great Escape, MO	3		No Sale	
8	Fern's Great Escape	Reid's Great Escape, MO			No Sale	
8	Arrow B Holly	Ralph Bown, MS	2	Sarah Davis, IL	\$1020	Reserve Champion Female
8	Rainbow Hills Cracker	Ralph Bown, MS	1		No Sale	Grand Champion Female

CLASSES:

1 = Mature Bull
2 = Yearling Bull
3 = Bull Calf
5 = Mature Cow

6 = Young Cow
7 = Yearling Heifer
8 = Heifer Calf

News From Directors

Region 7 News from the Heartland

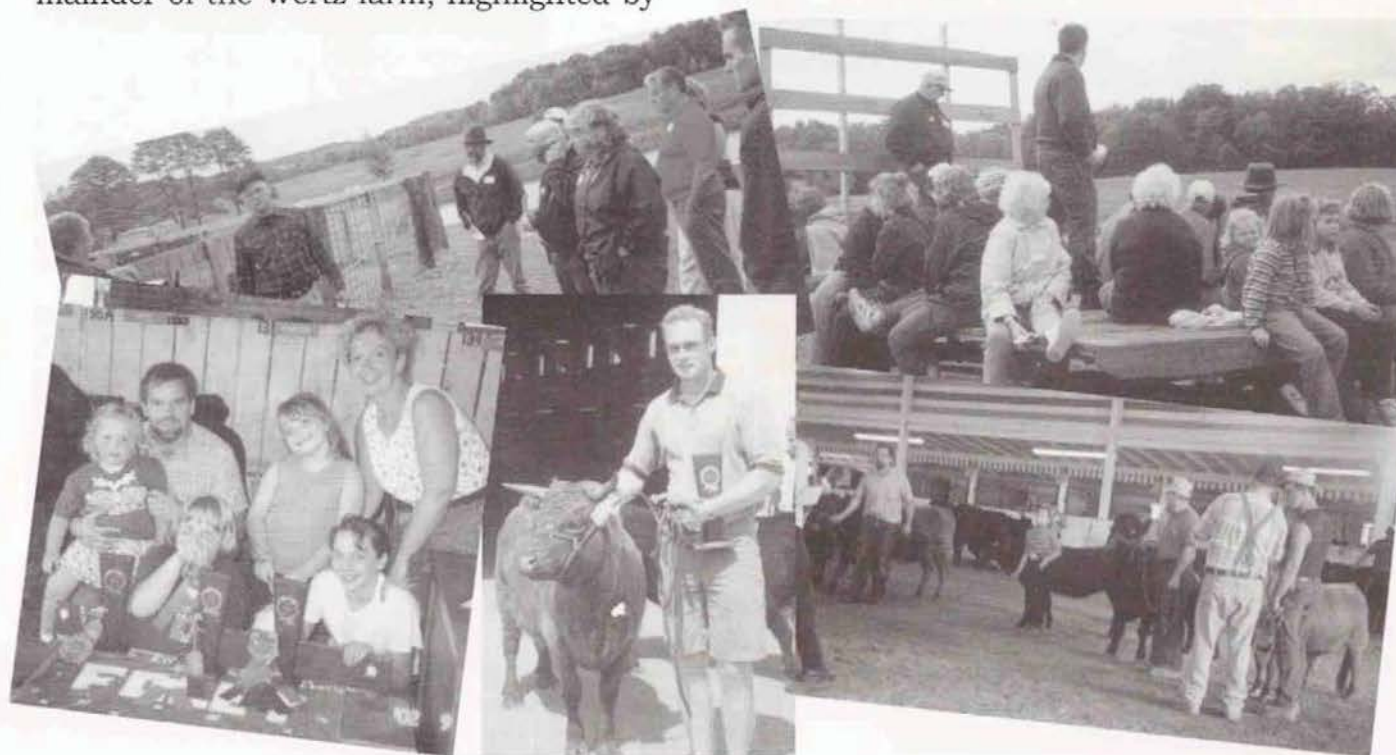
Stan Cass, Region 7 Director

Recently, Dexter cattle owners representing Ohio, Kentucky, and Indiana met at Roy and Liz Boley's farm in rural Ashland County, Ohio to view and evaluate the Dexter cattle herd of Keith and Dawn Wertz. Special guests included Bill Wachtel, national cattle classifier, who graded several of the Wertz's Dexters. Mr. Wachtel also conducted a question-and-answer session about the various strengths and weaknesses of the local Dexters. He suggested various breeding practices and herd management techniques to enhance the quality of individual animals. The Dexter owners were also privileged to hear David White, area sales manager for Vogortone Ag Products, discuss various feeding procedures and plans to aid better animal health and production.

The morning on the farm was concluded with a tractor-and-wagon tour of the remainder of the Wertz farm, highlighted by

the sighting of the month-old twin Dexter calves. The Region 7 meeting was then adjourned to the Perkins Restaurant in Ashland where a delicious meal was shared and the meeting continued.

Newly-elected ADCA vice-president Stan Cass was introduced and he reviewed the recent national meeting held in Medford, Oregon. Cass thanked the local breeders, especially the Wertz's who led the area Dexter contingent at the 2002 Ashland County Fair. The George Foley family took many of the fair awards back to their Indiana farm. The vice-president alerted those present that the 2004 national meeting will be in western Pennsylvania and that the 2006 World Dexter Congress could be held in the U.S. The Dexter faithful concluded their day with possible plans for a show and sale to be held at or near the 2003 Ashland County Fair time.



News From Directors

Region 10 Heifers and Bulls and Oxen - Oh My!

Gwen Casey-Higgins, Region 10 Director

Show at Highland Festival McHenry, Maryland

Region 10 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia) held a meeting and show on June 1, 2002 at the 15th Annual Highland Festival at Deep Creek Lake in Garrett County, McHenry, Maryland. The weather was perfect for the weekend event.

Over 5,000 people attended the festival, along with several Dexter owners who brought cattle to show. We had a total of seven Dexters - several more than the Scottish Highlands on display. We were fortunate to have retired WV Extension Agent, Ralph Dunkel of Franklin, West Virginia, judging the show. Mr. Dunkel provided an excellent running commentary on each animal as it was being judged. Based on the number of animals, we had six classes, including a cattle showmanship demonstration:

- Heifers under 15 months
- Heifers over 15 months
- Bulls
- Oxen Team
- Market Steers
- Fitting & Showing

Each class had their showing and then ribbons were presented to the winners - luckily, everyone

was a winner.

A special thanks for all the hard work supplied by Region 10 member Tom Donaldson, his wife Jo, and daughter Catherine, on the Festival and Region 10 Show. Jo is on the Highland Festival committee and made the arrangements for our Dexter housing and show area. We were also pleased to have Adam Sanders of Oakland, Maryland conduct the Fitting and Showing demonstration.

Other ADCA members and Dexter owners attending included: Rodger, Kim, Brandon and Seth Channell from Shavers Fork Family Farm in Kerens, West Virginia; Robert and Gail Seddon from Olde Towne Farm in Mineral Virginia; Steve, Doris and Jesse Burdette from Non-Cents Acres in Stonesboro, Pennsylvania; Mark and Edlyn Muir from Muirstead in Union City, Pennsylvania; Gary McGinnis from Family Agricultural Project in Oakland, Maryland; and Gwen Casey-Higgins and Larry Higgins from Dog Run Farm in Berryville, Virginia.

After the show, a meeting was held for Region 10 members to discuss local issues and agenda items for the ADCA AGM.

We hope more Dexter enthusiasts will attend next year's Highland Festival on June 7, 2003.

HEIFERS AND COWS

Heifer over 15 months

First Place:

Dixie Karen

Tom Donaldson, Hollifield

Deer Park, Maryland

Heifer under 15 months

First Place:

Dixie Laura

Tom Donaldson, Hollifield

Deer Park, Maryland

Second Place:

Gabby Muirstead

Mark & Edlyn Muir, Muirstead

Union City, Pennsylvania

Champion Heifer

Dixie Karen

Tom Donaldson, Hollifield

Deer Park, Maryland

Grand Champion Female

Dixie Karen

Tom Donaldson, Hollifield

Deer Park, Maryland

BULLS

Bull Calf

First Place:

Finnegan Muirstead

Mark & Edlyn Muir, Muirstead

Union City, Pennsylvania

Grand Champion Bull

Finnegan Muirstead

Mark & Edlyn Muir, Muirstead

Union City, Pennsylvania

STEER AND OXEN

Oxen

First Place:

Nick and Sam

Jesse Burdette

Non-Cents Acres

Stonesboro, Pennsylvania

Market Steer

First Place:

Hollifield Baby Boy

Tom Donaldson, Hollifield

Deer Park, Maryland

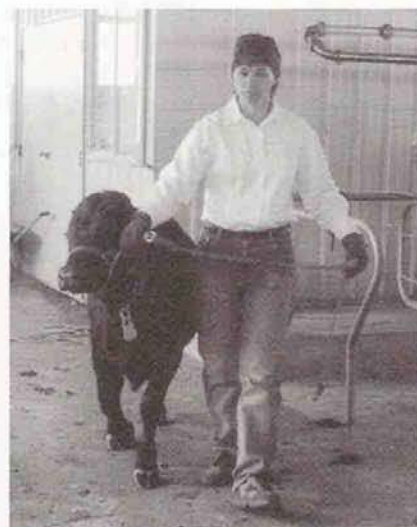
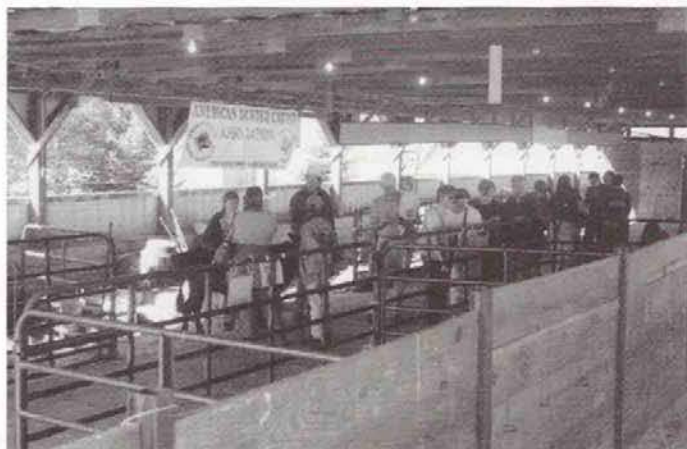
FITTING AND SHOW AWARD

Adam Sanders

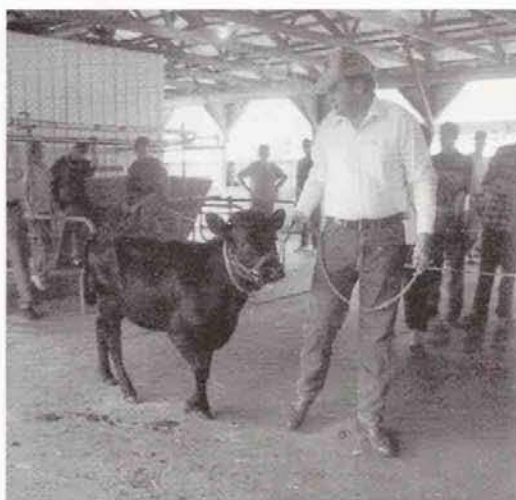
Oakland, Maryland

News From Directors

Region 10 Heifers and Bulls and Oxen - Oh My!



Edlyn Muir with Finnegan



Mark Muir with Gabby Muirstead

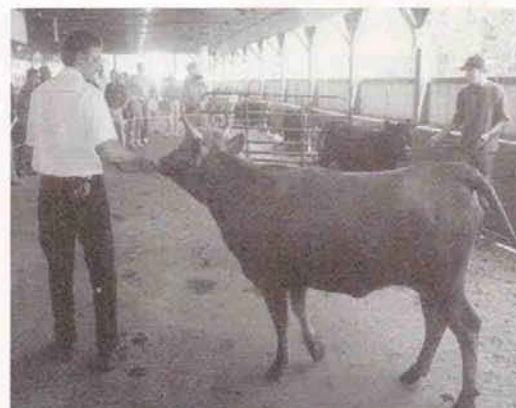


Jesse
Burdette with
Oxen



Hollified Baby Boy & Adam Sanders Showmanship

Dixie
Karen



A DNA TEST FOR CHONDRODYSPLASIA IN DEXTER CATTLE

[This paper is reprinted from "Presenters Papers for the Second World Dexter Congress, Australia, October 11-12, 2002" with the permission of the author Julie Cavanagh. This paper will appear in two parts in the Dexter Bulletin. Following is the first part; the second part will appear in the Spring 2003 issue. The entire paper will be posted on the ADCA website at dextercattle.org.]

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PMB 3 Camden 2570, Australia

³Reprogen, The University of Sydney,
Sydney 2006, Australia

INTRODUCTION

Dexter cattle are a small breed of cattle originating in Ireland. There have been reports of mutant, aborted fetuses in this breed of cattle described as chondrodysplastic fetuses (of "bulldog" calves) as early as the 19th century. The affected fetuses display disproportionate dwarfism, a short vertebral column, abnormally short legs, a relatively large head with a retruded muzzle, cleft palate, protruding tongue and a large abdominal hernia. Dexter chondrodysplasia is inherited in an incompletely dominant manner, in which the affected foetus has two copies of the defective gene and animals with one copy of the defective gene are carriers (or so called "short-legged"). As part of an approach to controlling the disease in Australia, Dexter Cattle Australia (DCA) chose to initiate and support research to develop a DNA based diagnostic test to identify carrier animals, prevent carrier x carrier matings, hence reducing the incidence of chondrodysplastic fetuses. Described below in two sections is (1) the process of developing the chondrodysplasia DNA test, and (2) analysis of measurement data obtained from carrier and normal animals.

*A 4bp insertion in
a homozygous form
is associated with
severe chondrodys-
plasia in calves...*

1. HUNT FOR THE CHONDRODYSPLASIA GENE

As described by Harper *et al.* (1998a), the steps in preventing the transmission of inherited defects are: determine the diagno-

sis; establishing the mode of inheritance; defining the defect at the functional and/or at the DNA level; and determining and implementing an appropriate policy to control the disorder. As Harper *et al.* (1998b) had already determined the diagnosis and the mode of inheritance for chondrodysplasia in Dexter cattle, the next step was to define the defect at the DNA level. This section describes the process followed and the outcomes during the definition of the defect at the DNA level.

MATERIAL AND METHODS

Animals

A panel of 21 Australian animals (7 affected calves, 11 carrier animals and 3 unrelated control animals) was used for the initial mapping and mutation discovery part of this study. The relationship of the animals is shown in Figure 1. There are three popular AI bulls in Australia which are all proven carriers, AI1, AI2 AND AI3. Figure 1 shows the initial pedigree available for analysis including the 3 carrier bulls.

Both AI1 and AI2 are 5th generation descendants of the same bull. However, AI3 does not appear to be related to this founder bull and according to the pedigree is descended from a crossbred cow from a Dexter x Jersey/Red Poll mating.

For validation of the disease-causing mutation, a further eight affected calves from the UK, three from Germany and three from New Zealand were analysed.

Candidate gene identification and homozygosity mapping

A targeted homozygosity mapping approach was used to identify chromosomal regions with known candidate genes (Lander

and Botstein, 1987). Eleven candidate genes were identified based on their known involvement in bone growth and development. The chromosomal positions of the candidate genes on the cattle genome were predicted with the use of bovine and human comparative maps at the Bovine Genome Database (<http://bos.cvm.tamu.edu/htmls/HBM.html>) (Band *et al.*, 2000; Chowdhary *et al.*, 1996; Hayes, 1995; Solinas-Toldo *et al.* 1995).

The panel of 21 Dexter DNA samples was used for a homozygosity mapping approach using 68 DNA markers. DNA markers are spread throughout the genome and allow us to link disease genes to a specific region in the genome.

Location of the candidate gene

To map the selected candidate gene to the cattle linkage map, the International Bovine Reference Panel (IBRP) was used (Barendse *et al.*, 1997). A non-coding single nucleotide polymorphism (SNP) was found in the sequence of an Angus control animal and this polymorphism was used to map the gene to the cattle linkage map.

Mutation analysis

For mutation detection in the candidate gene identified through homozygosity mapping, two affected calves were used, along with a proven carrier animal, and a control animal (Angus breed). The entire coding region of the gene was sequenced for mutations.

RESULTS AND DISCUSSION

Homozygosity mapping in candidate gene regions

Eleven candidate genes were identified on the basis of the clinical description as likely to be involved in chondrodysplasia in Dexter cattle. The candidate genes locations on the bovine map were predicted. Homozygosity mapping was performed in regions predicted to contain the candidate genes. The technique of homozygosity mapping relies on the fact that the DNA surrounding the disease gene will be identical by descent (IBD) (Lander and Botstein, 1987). Simply, if the disease originates from an original founder animal, the DNA surrounding the disease gene will be inherited with the disease. Therefore, DNA mark-

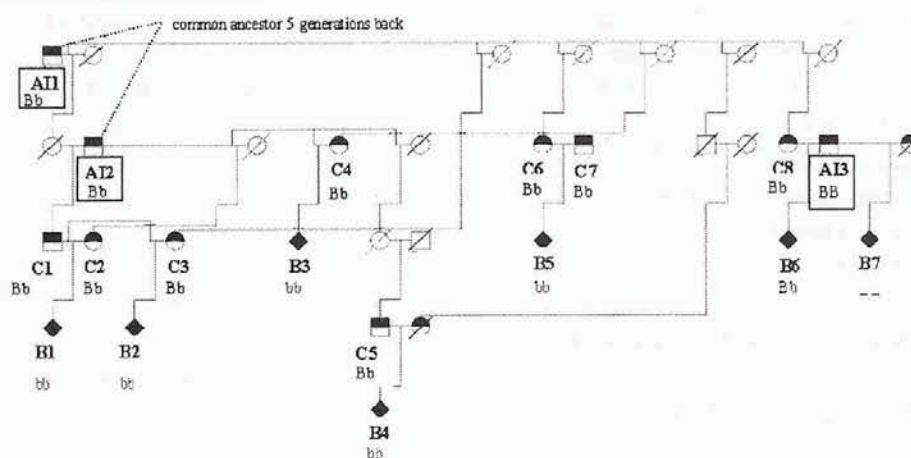


Figure 1. Pedigree of Australian Dexter families including 7 affected calves (B1-B7). The pedigree was drawn using PEDRAW (Curtis, 1990). The letters below the animal ID indicate alleles for the mutation. Note that A13 and B6 do not conform. key: ○ = female, □ = male, ◇ = unknown sex, half-filled = carrier, filled = affected, line through symbol = sample not available

B = Normal copy of gene, b = mutated copy of gene

ers near the disease gene would show homozygosity in affected animals (as they have two copies of the disease gene), but not in parents or controls (as they only have one or zero copies of the disease gene). A potential homozygous region amongst the affected animals was identified. Affected animals B1 – B5 (descendants from sires AI1 and AI2) were homozygous for a single allele for two of the three DNA markers of interest, whilst carrier and control animals were het-

used for commercial, chondrodysplasia DNA testing.

In summary, of 24 affected calves, 20 calves that are not related to the bull AI3 or his female line are tested to have two copies of mutation 1, genotype bb. This includes affected samples from Australia, New Zealand, Germany and the UK. All 22 parents of the homozygous affected calves are heterozygous for mutation 1, genotype Bb. Of the 293 other Dexters for which DNA samples were collected during the

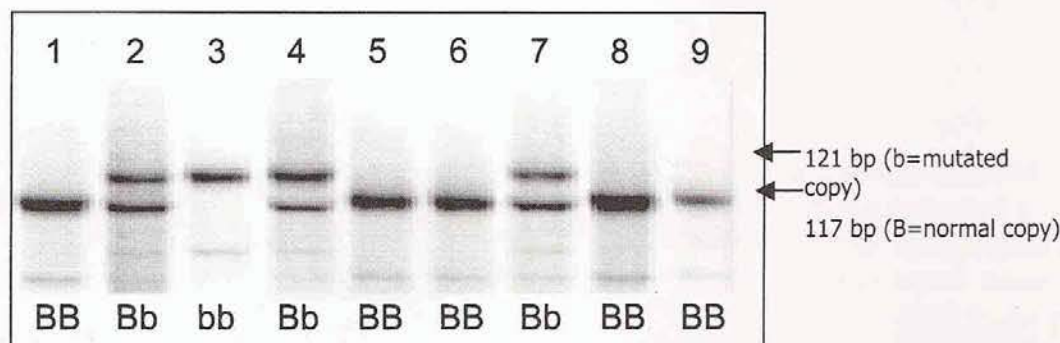


Figure 2. Chondrodysplasia DNA test for mutation 1 - fragment length analysis of 4 bp insertion mutation. The genotypes are indicated for each sample (numbered 1-9), and the fragment sizes are on the right-hand side.

erzygous. Samples B6 and B7 (descendants from unrelated bull AI3) were not homozygous. The LOD score (a measure of statistical significance) for two of the DNA markers was 2.11, which is noteworthy, although not statistically significant due to small family size. As B6 and B7 are related to bull AI3, this region was still identified as a region of interest.

Investigation of candidate gene leads to a DNA test

The location of the candidate gene predicted to map to the region of interest was confirmed by linkage mapping. Sequencing of the candidate gene revealed a 4 bp, GGCA insertion in the affected samples (mutation 1). To genotype samples for mutation 1, fragment size analysis was conducted using polyacrylamide gel analysis on an automated sequencer (LI-COR), as shown in Figure 2. This is the method

used for commercial, chondrodysplasia DNA testing.

Second mutation in the same gene

There is evidence for a second disease-causing mutation within the same gene (mutation 2). Bull AI3 and both his parents did not have mutation 1. Two affected calves, sired by bull AI3 (and with AI1/AI2 on the dam line) had one copy of mutation 1 and one copy of mutation 2, and two affected calves with AI3 on both sides of their pedigree had two copies of mutation 2.

Mutation 2 is associated with the disease in the family relating to bull AI3. Mutation 2 has not been identified in a panel of 70 Dexters unrelated to bull AI3.

The minimum prevalence of heterozygotes carrying the second mutation is estimated at approximately 1.7% in Australia assuming it was only introduced by AI3. Due to herd book restrictions in other countries, it is likely that the second mutation is

only found in Dexters in New Zealand and Australia as AI3 was a grade bull.

CONCLUSION

Based on a candidate gene/homozygosity mapping approach we have successfully identified a causative gene for Dexter chondrodysplasia. A 4bp insertion in a homozygous form is associated with severe chondrodysplasia in calves and is consistent with the introduction of a premature stop codon leading to a truncated gene product, and is thus non-functional. The mutation in a heterozygous form is associated with a varying degree of dwarfism as shown by physical measurements (section 2). This is consistent with the incomplete dominant mode of inheritance. A second mutation causing chondrodysplasia in Dexter cattle, is thought to only occur in Australia and New Zealand. This mutation affects the same candidate gene and has been introgressed from a genetic source outside the Dexter breed.

Dexters have been selected for their shorter, often dwarf-like appearance usually indicative of a carrier animal. The DNA-test will enable informed mating decisions, avoidance of carrier x carrier matings and reduced incidence of chondrodysplasia-affected calves. **A major benefit of the test will be the ability to select desirable breeding animals of a short stature that do not carry the chondrodysplasia defect.**

Finally, there is potential for Dexter chondrodysplasia to be used as model for human dwarfism. Screening of the gene in patients with homologous forms of dwarfism may reveal a disease-causing mutation.

ACKNOWLEDGMENTS

We thank Dexter Cattle Australia (DCA) who initiated the project and assisted in funding, and all the Dexter breeders who were so helpful in providing samples, measurements, accommodation, information and also animals, particularly Margaret Paynter for her time. Professor Bertram Brenig, Professor John Williams and Emeritus Professor Richard Gradwohl kindly provided DNA samples to verify our disease-causing mutation in non-Australian

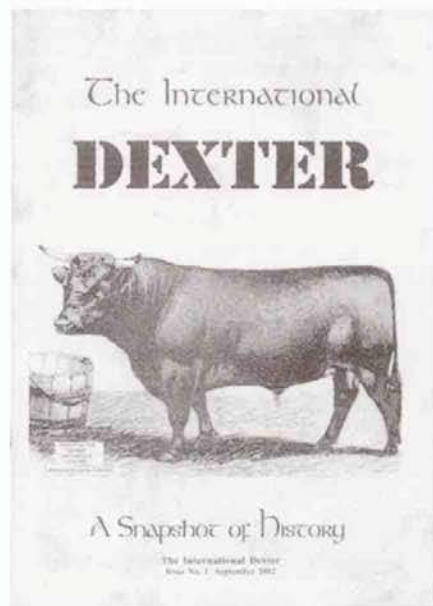
samples. Thanks to the New Zealand Dexter breeders who supported the project by providing samples. Thanks also to Bill Barendse who assisted in mapping the candidate gene.

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The International Dexter

The magazine "The International Dexter: A Snapshot of History" is available in limited quantities from ADCA. The cost is \$5.



Editor's Corner

I'd like to thank everyone for the opportunity to serve the ADCA as your new Bulletin Editor. Please bear in mind that the transition between editors may have a few snags along the way. Things might not be included that should be, or vice-versa.

This Bulletin is less effective without YOUR participation. I'll need feedback and recommendations for articles. Please send all material and photographs you wish to be considered for the Bulletin (emailed photos should be in a **gif** format, if possible; or I can accept hard copies of pictures). I reserve the right to edit submitted materials as necessary for clarity and space considerations.

I'll do my best to put the Bulletin out in a timely fashion. I appreciate your trust.

Patrice Lewis

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plewis@wave.net

Membership Fees

New Membership For individuals who own a registered Dexter.....	\$30
Associate Members not owning registered Dexter cattle.....	\$30
Annual Renewal for all memberships due January 1 of each year.....	\$20
Subscribers to Bulletin Only (non-member).....	\$10
Cost of Herd Book Published Annually.....	\$10

A Spoonful of Sugar

We've always given our little dogs pills coated in peanut butter, but I've recently discovered that a pet cow will gobble any oral medication down when it's lost in a dollop of honey, sandwiched in a slice of bread.

Your Dues are Due!

Dues for all members and associate members expire December 31.
Please renew by January 1!

"OUTCH!"

A little baby boy
came out of my butt today
All slimy and smelly
I nearly walked away
But after looking him over
I decided to stay
Now I love the little guy
He's never far away
But please, Lord
There must be an
easier way.

-- **Katie Cow**

Announcements

Thank You!

A special thank you to Rich Henry for his many years of dedication to the Bulletin. Rich is responsible for improving the quality of the Bulletin over his tenure, and bringing it into the technology age. Words aren't sufficient to express our gratitude for his hard work.

Tattoo Letters for Years are as Follows:

A - 1991	G - 1997	N - 2003	V - 2009
B - 1992	H - 1998	P - 2004	W - 2010
C - 1993	J - 1999	R - 2005	X - 2011
D - 1994	K - 2000	S - 2006	Y - 2012
E - 1995	L - 2001	T - 2007	
F - 1996	M - 2002	U - 2008	

SALES REQUIREMENTS FOR SEMEN

Advertising pertaining to the sale of semen in the Bulletin requires one to state the height of the bull from the shoulder to the ground, and the age at which the height was recorded. The bloodtype for any bull beings used out-of-herd A.I. must be on file with the ADCA.

2003 Annual General Meeting

**Payne County
Expo Center
July 18, 19, 20, 2003
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A full-color book about Dexters direct from England.
\$27.50 check or money order.

The Dexter Cow

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Please order all books from:
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404 High Street
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The common sources [of lead poisoning] are old paint buckets, putty, old batteries, gas oline, motor oil, plumbing materials, linoleum, and some fruit sprays.

From the National Cattleman's Beef Association Website:

"Monounsaturated fats are championed by health professionals for their cholesterol-lowering ability."

(Kris-Etherton, P; Burns, JH. Cardiovascular Nutrition: Strategies & Tools for Disease Management and Prevention, ADA, 1998, p.92)

"Nearly half the fat in beef is monounsaturated, the same heart-healthy fat found in olive oil."

(USDA, ARS. USDA Nutrient Database for Standard Reference, Release 12. Nutrient Data Laboratory homepage [www.nal.usda.gov/fnic/foodcomp], 1999)

Deadlines

Deadlines for submission of articles, photos, and advertising for the Bulletin are as follows:

Spring Issue
February 15
Summer Issue
May 15
Fall Issue
August 15
Winter Issue
November 15

Ideally the Bulletin should be mailed around:

Winter Issue - Dec. 15
Spring Issue - March 15
Summer Issue - June 15
Fall Issue - Sept. 15

Classified Advertising

Classified advertising is limited to Dexters or Dexter semen exclusively, and subject to approval by the ADCA. Prices for animals will not be published.

Make all checks payable to the American Dexter Cattle Association.

Please submit payment and photographs with your ad, and send to:

The Dexter Bulletin
Patrice Lewis, Editor
1226 Sardine Creek Rd
Gold Hill, OR 97525
(541) 855-2018
plewis@wave.net

Advertisement Rates

Ad Size	Single Issue	Four Issues
1/8 page	\$15.00	\$50.00
1/4 page	\$30.00	\$100.00
1/2 page	\$60.00	\$200.00



Celestial Farms

At the recent ADCA Show and Sale in Medford, Oregon, Celestial Farms had the privilege of having our red bull, Celestial IO, named National Grand Champion Bull for 2002. Celestial IO was born and bred on our farm here in North Idaho.

Celestial Farms would like to take this opportunity to thank Mark & Edlyn Muir, of Union City, Pennsylvania for their purchase of Celestial IO.

Also we would like to thank John Wolf of Silverton, Oregon, for the purchase of our other bull from the National Show and Sale, Celestial Eclipse.

Celestial Farms

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Registration Procedures in the ADCA

The white application for registry should be completed as follows. All sections should be completed.

1. Indicate if the tattoo is in the left or right ear.
2. Be sure the name is less than 21 letters.
3. Be sure the birthdate and the sire and dam registration numbers are included.
4. The signature of the breeder should be the person who bred the cow (the person who owned the cow at the time of breeding).
5. The signature of the owner of the dam at time of calving may be different if you purchased a bred animal.
6. The signature of the owner of sire would be the owner of the bull who bred the cow.
7. The transfer application section of the white application form should be filled out only if you are purchasing an animal that is not registered (these should not be common cases) or a calf being sold with its mother (if there is some question as to if the animal should be registered). This may be especially true in the case of bull calves. Most people don't want to register a bull and then eat him.

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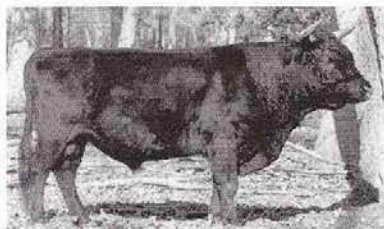
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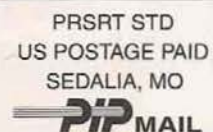
The Last Word

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