

flight

(200-220)

THE OFFICIAL PUBLICATION OF THE VIRGINIA BOWHUNTERS ASSOCIATION

FLIGHT NO. 3

MAY/JUNE 1992

VOLUME 34

Proud Champions—Virginia State Open



From the Office of VBA Corresponding Secretary

Effective April 15, 1992, the NFAA handicap cards will be mailed directly to members from the NFAA headquarters in California. I will no longer be able to issue your NFAA handicap card when your club secretary sends your dues into the VBA office or issue duplicate cards if you lose or misplace your original. You must contact NFAA direct for replacement cards. Their address and phone number is:

National Field Archery Association
31407 Outer I-10
Redlands, CA 92373
1-714-794-2133

There seems to be an awful lot of confusion regarding the **VBA ONLY MEMBERS**. Club secretaries have been misinforming members who are **VBA ONLY** that they can shoot in sanctioned official round tournaments. Yes, clubs can allow a **VBA ONLY** member to shoot, but their scores are not put on their cards and **THEY ARE NOT ELIGIBLE FOR AWARDS**. You **MUST** have a NFAA handicap card and a VBA card to compete for awards. Let's get this situation straightened out. If **VBA ONLY MEMBERS** show an interest in competing, then let's also get them to

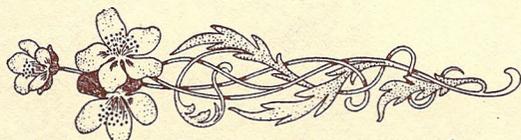
pay their NFAA dues. I have been having all kinds of problems explaining to these people the opposite of what club officers are telling them. This is not only a VBA rule but is also a NFAA rule.

Also, club secretaries or tournament chairmen, please make a note that tournament reports for official rounds are to be mailed to the Corresponding Secretary the **WEEK FOLLOWING YOUR SHOOT**. I would also appreciate the Social Security number for all members, regardless of who they are, and remember to include the birthdate of all members under the age of 18.

Clubs and individuals having credits with VBA for overpayment of dues, 20-pins or for whatever reason, be advised that these credits must be used up by the end of each calendar year or the money will go into the VBA treasury. When I took over this office, there were a few people who have credits that go back a couple of years; so if you do (and you have been notified), please remember to use them or lose them!

-Ann Boyd

VBA Corresponding Secretary



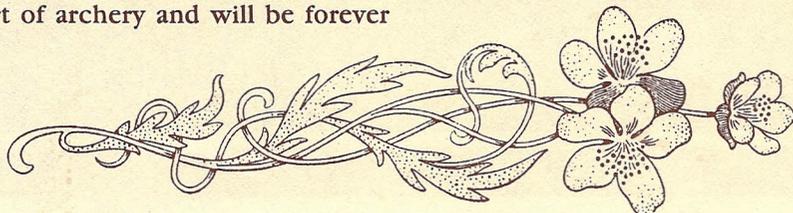
In Memoriam—Nina Enders

On April 1, 1992, the Virginia Bowhunters Association lost a valued and long-time member. Nina Enders died at her home in Selingsgrove, Pennsylvania.

Nina was a former member of Princess Anne Bowmen and a member of the Order of the Golden Feather. She served as VBA Recording Secretary from 1975 until 1983, when she and her husband, Bill, who is our past VBA President, moved to Pennsylvania. Nina was very much dedicated to the sport of archery and will be forever

remembered for trying her level best to keep Bill straight. After moving to Pennsylvania, she was active in her church and the Eastern Star Chapter. She is also survived by a daughter, two grandsons, two stepbrothers and three stepsisters.

Nina will be greatly missed by our circle of friends in VBA. She was a fun-loving, pleasant person who you always enjoyed being around. She may be gone from her place here on earth, but she will remain in our memories.



V.B.A. OFFICERS

Kenneth E. Sorrels, President
P.O. Box 2002
Wise, Va. 24293
703-328-8485 (home)
703-523-4669 (work)

Dave Proctor, Executive Vice President and Flight Editor
3730 Singers Glen Road
Harrisonburg, Va. 22801
703-867-0231 (home)
703-828-4663 (work)

James Barker, Field Vice President
Rt. 1, Box 138-A
Shenandoah, Va. 22849
703-652-8076

John Street, NFAA Director
109 Smokehouse Lane
Williamsburg, Va. 23185
804-229-2746

Ann R. Boyd, Corresponding Secretary
265 Wilkins Drive
Winchester, Va. 22601
703-722-9536 (VBA office)
703-667-1320 (home)

Scarlet Rucker, Recording Secretary
P.O. Box 1263
Galax, Va. 24333
703-236-9659 (home)
703-772-0931 (work)

C. D. Miller, Treasurer
P.O. Box 889
Stuart's Draft, Va. 24477
703-337-4708 (home)
703-337-3600 (work)

Earl McCauley, VBA Field Governor
Rt. 1, Box 1530
Front Royal, Va. 22630
703-636-8609

Robert Keaton, Hunting Vice President
9208 Peabody St.
Manassas, Va. 22110
703-368-4085

John McLaughlin, Conservation Vice President
119 Polk Drive
Manassas Park, VA 22111
703-368-7308 (home)
703-883-6089 (work)

FLIGHT NO. 3

VOL. 34

Published Bi-monthly
Dave Proctor, Editor
3730 Singers Glen Road
Harrisonburg, Va. 22801
Bulk Rate Postage
Paid at Bridgewater, Va.
Advertising Rate - \$2.50 per col. in.

Flight Deadline

The deadline for the June-July issue of FLIGHT will be *July 3, 1992*. Submit your articles of interest to the editor prior to that date. I encourage readers to send in letters to the editor. Remember, this is *your* newsletter.

Club News



Warwick Bowmen *Invites you to the* **1992 State Closed Championship**



Dates: September 5-6, 1992
Place: Certified 5 Star Archery range at the Newport News Park, Newport News, VA.
Directions: Approximately 55 miles east of Richmond, Exit 250B off of I-64. Follow the signs to Newport News Park Campsite office.
For more information and early registration send forms to:
 Mr. John Street
 109 Smoke House Lane
 Williamsburg, VA 23185-3138
 Phone: (804) 229-2746 after 6 p.m.

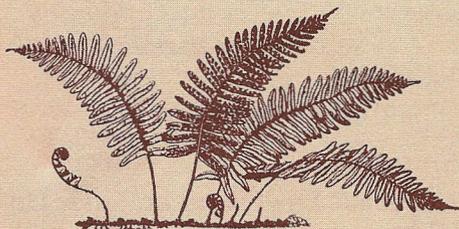
Fees: Adult-\$15; Family-\$30
 Make checks payable to "Warwick Bowmen"

Registration and a reception will be held at the Campsite Activities Building Friday evening, September 4, 7-9 p.m. Snacks will be available. Shooting starts on Saturday. Food will be available for purchase on all ranges.

Some of the many accommodations in the vicinity are:
Newport News Park Campsites (804) 888-3333. Limited amount, call early.
Mulberry Inn (804) 887-3000. Approximately 5 minutes from the range.
TDY Inn (804) 888-6667. Approximately 5 minutes from the range.
Comfort Inn (804) 249-0200. Approximately 8 minutes from the range.
Knights Inn (804) 595-6336. Approximately 10 minutes from the range.

Some of the many attractions/points of interest in the vicinity include:

<p>Water Country USA Busch Gardens-The Old Country Yorktown Battlefield Colonial Williamsburg/ Jamestown</p>	<p>Air Space Museum Patrick Henry Mall (Includes 7 theaters) The Pottery Shopping Mall</p>
---	--



Mark Lawrence **Remembered**

by Jerry Boyd

On May 12, 1992, VBA members lost one of the most liked and well-known archers in Northern Virginia. Mark E. Lawrence or "Mel" died at the age of 48.

When I started shooting in 1966, Mark's name came up a lot as one of the best shots in our area and I soon learned that as I had the privilege of shooting with him so many times. As an archery shop owner, Mark always

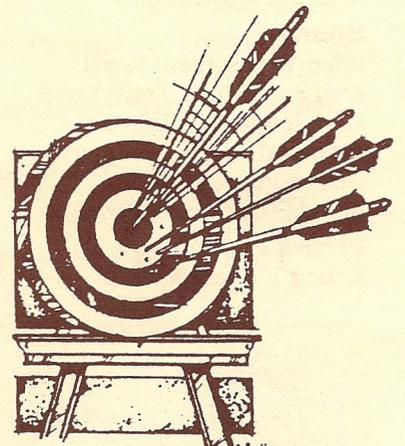
had time to help anyone who developed a problem, whether they were customers of his or not.

Mark is survived by his beloved and devoted wife, June and two children, Tony and Sherry and a grandchild.

Mark's death was indeed untimely and his life was way too short. He will be sadly missed by us who knew him well. May he rest in peace.

Northern Virginia **Championship** **July 19**

Norva will host the Northern Virginia Championship on Sunday, July 19. Starting time 10 a.m. for the Field and Hunter range. The 3D range will be open all day at a casual registration. Awards will be given on both ranges and in all classes. Food and beverages will be available at the club house. For information or directions call Jim at 703/590-6838 or Chuck at 257-0733.



From Chesterfield **Archers**

To All VBA Clubs
Re: Shoot Schedule

Club Members,

Please be advised that Chesterfield Archers will have to cancel all scheduled shoots this year. We all know the wheels of government turn slowly, but in the case of Chesterfield County they barely seem to move at all. We are still working along and hope to have our range ready for next year.

We hope this has caused no inconvenience to any of you.

Thank you,
 Bill Sanger

20-Pin Winners

September 1991-May 26, 1992

Field:

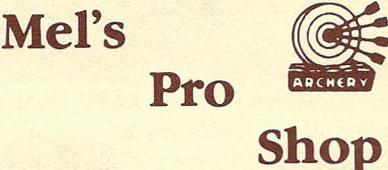
- Tom L. James, Virginia Beach
- Sue Felts, Virginia Beach
- Randall Schultz, Virginia Beach
- Kevin W. Peters, Roanoke
- Auvray K. Kirk, Salem
- Mark Jenkins, Nokesville
- Brian Wines, Front Royal
- Alan Rutherford, Front Royal
- Dennis Kolasinski, Virginia Beach
- Gilbert Boyd, Vinton
- Christopher Bruce, Hurt
- Jimmy Rudolph, Woodstock
- George Michell, Sr., Richmond
- Brenda Dyer, Front Royal
- Jerry L. Tice, Vinton
- John Richards, Vinton
- Brian Hartsel, Roanoke
- Bruce Richter, Chesterfield
- Brian Gilley, Roanoke
- Robert C. Fletcher, Jr., Stephens City
- Nick Willard, Altavista

Hunter:

- Brian Wines, Front Royal
- Alan Rutherford, Front Royal
- Mark Jenkins, Nokesville
- Raymond Crizer, Covington
- Gilbert Boyd, Vinton
- Brenda Dyer, Front Royal

Perfect Pin-Hunter:

- Robert E. Lee, Catawba



Mel's Pro Shop

Bradford Square Shopping Center
13623 Dumfries Rd.
Manassas, Va. 22111

Store Hours: Mon.-Fri. — 1 p.m. to 9 p.m.;
 Sat. — 10 a.m. to 6 p.m.; Sun. — Closed

"If I ain't got it, I'll get it"

Mark & June Lawrence
Phone 703-791-3070

Oneida Eagle, Hoyt, Martin, XI,
 PSE, Golden Eagle, Bear/Jennings
 Compound Bows

"Authorized Service Center"

Complete line of
 tournament and hunting
 equipment

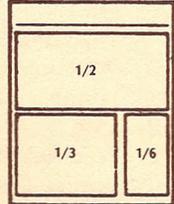
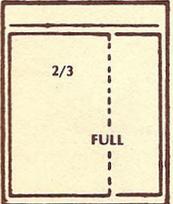
Gift Certificates Available



Advertising Rate for Flight

1/6 page 2 3/8" x 5" \$20.00 1/6 page
 1/3 page 5" x 5" \$35.00 1/3 page
 1/2 page 7 1/2" x 5" \$60.00 1/2 page
 2/3 page 5" x 10" \$70.00 2/3 page
 Full page 7 1/2" x 10" \$100.00 Full Page

(Price is based on camera ready art.)



Important Date Changes

The dates for the 1992 Mid-Atlantic Outdoor Tournament have been changed due to a conflict at Watkins Glen.

The new date for the Mids will be June 20, 21.

The reason for this change is due to running of a Camel Grand Prix race on the same weekend as the regularly scheduled Mids.

For those people who want to camp at the 1992 NFAA National Outdoor Tournament, please call 1-800-236-9728 for a packet about camping there. (There is only 1 (one) private campsite. The state campsites do not take reservations.

Another date change! The date for the 1992 3-D National Championship will be August 22, 23, 1992.



Other Dates of Interest:

1993 National Indoor
 Louisville, Kentucky
 March 27, 28, 1993

1993 National Outdoor
 Blue Springs, Missouri
 July 26-30, 1993

1993 NFAC
 Eugene, Oregon
 August 13-15, 1993

Results from 1992 VA State Open

(Continued—Article begins on page 5)

Senior Male Bowhunter Freestyle

- 1 Billy Reynolds 974
- 2 Harley Mabe 934
- 3 James Kyle 905

Senior Male Bowhunter Freestyle Limited

- 1 Robert Keaton 959
- 2 Robert Coby 710

Senior Male Freestyle Limited

- 1 T. C. Parker 916

Senior Male Barebow

- 1 Urshel Miller 637

Senior Male Freestyle

- 1 Taylor Gibson 1043
- 2 William Lockwood 1003

Senior Female Bowhunter Freestyle Limited

- 1 Jane Mabe 910

Senior Female Freestyle

- 1 Jan Lockwood 1050

PRO DIVISION

Adult Male Freestyle

- SC Jim Thurman 537-272-280-1089
- 2 David D. Schaub 533-267-276-1076
- 3 Dale Rucker 523-266-278-1067

Adult Female Freestyle

- SC Jan Lockwood 509-261-280-1050

Adult Female Freestyle Limited

- SC Debi Barker 496-248-278-1022

Results from the 1992 Virginia State Open

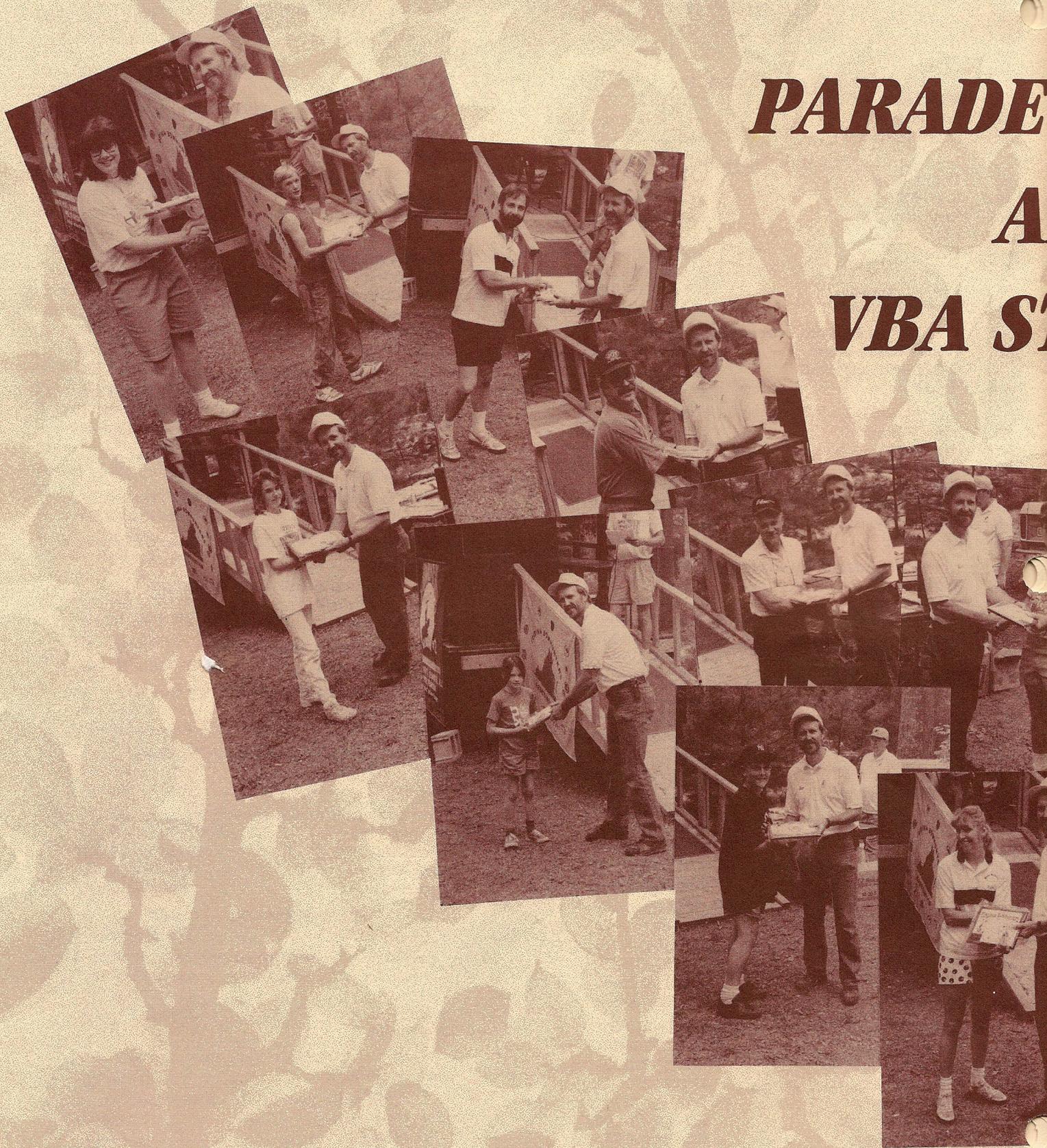
Adult Female Freestyle			AA2	John Boyd	479-236-264-979
SC	Maria Bell	479-246-270-995	AA3	John Mason	465-225-260-950
A1	Brenda Dyer	469-245-274-988	A1	Larry Robinson	429-194-234-857
A2	Alice Christian	418-223-252-893	A2	Watson Knode	398-196-246-840
Adult Male Freestyle			A3	Carroll Willard	411-173-244-828
SC	Thomas Owens	544-277-280-1101	Adult Female Barebow		
AA2	C. D. Miller	542-275-280-1097	SC	Cay McManus	456-247-266-969
AA3	Kendall Woody	540-273-280-1093	AA2	Roberta Jones	363-210-252-825
A1	James E. Lowe		Adult Male Barebow		
A2	Frank Farley, Jr.	518-260-278-1056	SC	Bradley Marshall	495-245-278-1018
A3	George Harman	513-253-274-1040	AA2	Richard Stark	479-239-270-988
B1	John W. Hamilton	485-247-270-1002	AA3	Donnie DeVall	430-212-252-894
B2	Larry Heidlebaugh	463-234-274-971	A1	Bert Cline	418-225-262-905
Adult Female Freestyle Limited			A2	Phil Cantrell	415-204-252-876
SC	Velda Chamberlain	453-240-272-965	A3	James Presley, Sr.	415-204-252-871
AA2	Catherine Heidlebaugh	450-229-274-953	Adult Male Traditional		
AA3	Linda Parker	461-225-258-944	SC	Paul Vogel	392-214-254-860
Adult Male Freestyle Limited			2	Tom Schanbacher	348-157-212-717
SC	Mike W. Smith	510- - -1038	3	Peter Eastman	313-149-182-644
AA2	H. P. "Buddy" Lowman	493-259-280-1032	Young Adult Female Freestyle Limited		
AA3	Charles Waybright	500-251-280-1031	SC	Kellie Fisher	242-143-238-623
A1	Earl Cash, Jr.	476-252-272-1000	Young Adult Male Bowhunter Freestyle		
A2	Dennis Mitchel	455-234-280-969	SC	Jason E. Bledsoe	364-183-230-777
A3	Kenneth Atkinson	468-230-264-958	Young Adult Male Bowhunter Freestyle Limited		
B1	Bev Hunter	418-200-260-878	SC	Chris Willard	432-233-272-937
Adult Female Bowhunter Freestyle			Young Adult Male Freestyle		
SC	Robin Vogel	504-245-276-1025	SC	Bobby Joe Norris	502-265-280-1047
AA2	Amy Withers	473-227-264-964	A2	Chad Waybright	473-234-276-983
AA3	Gloria Smith	472-217-264-953	Young Adult Male Freestyle Limited		
A1	Auvray Kirk	460-212-270-942	SC	Kevin E. Shepard	410-220-256-886
A2	Christi Crawford	410-201-256-867	Youth Female Freestyle		
A3	Anne Vanlew	410-201-230-841	SC	Jessica Megee	494-266-280-1040
Adult Male Bowhunter Freestyle			A1	Karen Baranski	464-216-246-926
SC	Martin Stonesifer	532-263-280-1075	Youth Male Bowhunter Freestyle		
AA2	Ronnie Layman	537-259-278-1074	AA1	George H. Mitchell, Jr.	327-173-168-668
AA3	David Heishman	534-261-278-1073	SC	Ezra Keith	387-185-226-798
A1	Jerry Tice	529-257-280-1066	Youth Male Bowhunter Freestyle Limited		
A2	Clarence Bibee	526-257-278-1043	AA1	Josh Holcomb	239-125-166-530
A3	John Roberts	506-257-280-1043	A1	Dustin Walters	315- 86-170-571
B1	Gilbert Boyd	477-226-266-969	SC	Nick Willard	420-213-238-871
B2	James W. Jones	475-230-260-965	B2	Carson Sams	388-187-230-805
B3	Brian Duncan	451-239-272-962	Youth Male Freestyle Limited		
C1	Scotty Gerbich	446-216-250-912	SC	Mark Heidlebaugh	364-138-240-742
Adult Female Bowhunter Freestyle Limited			Cub Female Bowhunter Freestyle Limited		
SC	Sue Felts	461-207-242-910 (21)	SC	Denya Pecora	452-233-276-961
AA2	Jane Mabe	439-215-256-910 (17)	B1	Lise Leininger	351-177-226-754
AA3	Linda Bradley	422-189-218-829	B2	Jennifer Willard	290-145-174-609
A1	Janice Rucker	423-211-246-880	B3	Beth Pecora	235-126-112-473
B1	Christie Pillar	363-166-166-695	Cub Male Barebow		
Adult Male Bowhunter Freestyle Limited			SC	Dusty Robinson	477-230-234-941
SC	Doug Carico	492-244-280-1016	Cub Male Bowhunter Freestyle		
AA2	Tom Halpin	482-233-270-985	SC	Daniel Leininger	513-252-258-1023
AA3	Robert Estevez	450-222-272-944	A2	Steven Lowe, Jr.	497-250-274-1021
A1	William Helsel	502-235-278-1015	A3	Richard Morris, Jr.	491-248-270-1009
A2	Robert "Ike" Craft	488-244-270-1002	Cub Male Freestyle		
A3	David Robertson	491-238-260-989	SC	Michael Ware, Jr.	535-264-278-1077
B1	Kenny Payne	395-182-262-839	A2	Bobby Lowe	507-258-276-1041
B2	Robert Colby	339-153-218-710	Adult Male Bowhunter		
SC	Howard Faris	481-248-272-1001	Adult Male Freestyle		

(Continued on page 4)

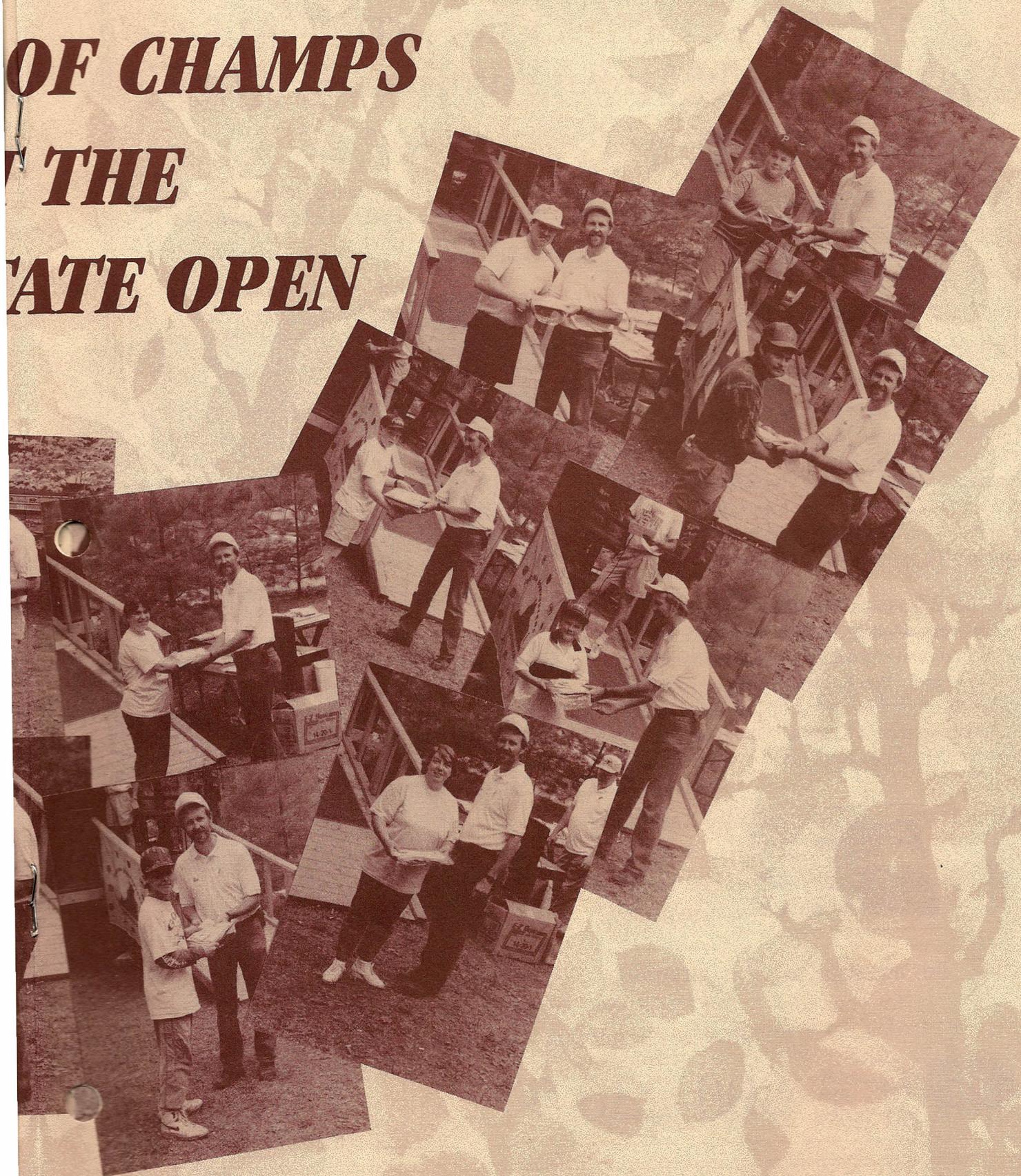
PARADE

A

VBA S'



OF CHAMPS THE ATE OPEN



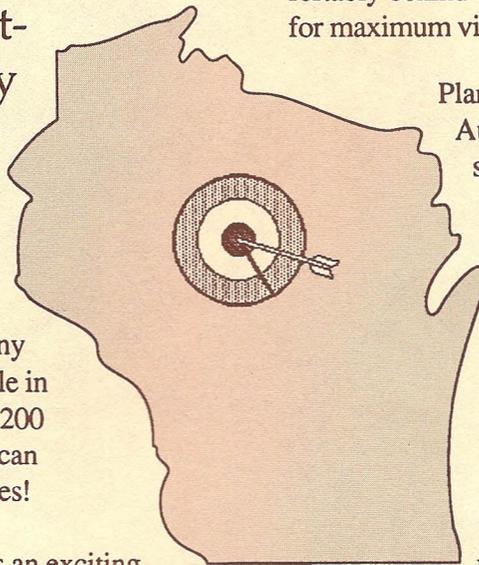
Come visit us for the 47th NFAA OUTDOOR NATIONALS right here in Wisconsin! July 26-31, 1992—Wausau, WI

This is your opportunity to attend a National Outdoor Shoot practically in your own "back yard"

We're planning a "host" of exciting events to make your week-long stay an enjoyable one. Bring the whole family and take advantage of the many attractions and fun activities available in the Wausau Area. With more than 1200 motel rooms and 375 campsites, we can accommodate almost everyone's tastes!

In addition to the shoot itself, there is an exciting Pro-Am event scheduled to begin at 3:15, Sunday, July 26. You can register for the Nationals either Saturday or at the Pro-Am site (providing your NFAA membership is current). We will have a live local radio broadcast from Thom Field, the event site.

Plenty of stadium seating with the sun comfortably behind both shooters and spectators for maximum visibility.



Plan to visit the Wausau Antique Auto Club's 25th Anniversary show, also scheduled for Sunday, July 26—all day.

While you are here stop to view the exhibits at the Leigh Yawkey Woodson Art Museum. Located in a converted mansion, it houses one of the premier wildlife art exhibits in the world. We have 5 municipal swimming pools, more than 50 City and

County Parks, 23 outdoor tennis courts and 10 movie screens to provide entertainment for the entire family all week long! Come, relax and enjoy the experience of a National Tournament right in the "heart" of Wisconsin!

Thanks to Our Sponsors:



For lowest airfares into Central WI, call Marathon Travel at (800) 456-5871, official travel agent to the NFAA '92 Outdoor Nationals.



For a complete listing of motels and camping sites write or phone for your copy of our FREE 1992 Spring/Summer Visitors Guide.

Just use our toll-free 800 number!

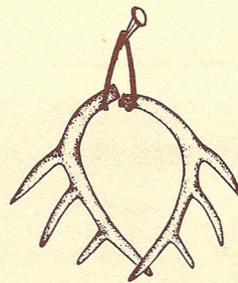


800-236-9728

Wausau Area Convention and
Visitors Council
P.O. Box 6190
Wausau, WI 54401



Virginia Bowhunters Association



SECOND ANNUAL RENDEZVOUS

August 8 & 9, 1992

Glen Maury Park • Buena Vista, Virginia

(Close to Roanoke, Lynchburg, Lexington and Staunton)

SPECIAL FEATURES:

★ Tom Flemming

Nationally-known horn rattler
will present seminars on how to
call in those big whitetail bucks!

★ George LaCross

Renowned Ohio taxidermist and
traditional bowhunter will
offer big game caping seminars.

★ Additional Speakers To Be Announced

★ 3-D Archery Range Available Daily

★ Dealer Equipment Displays On Site

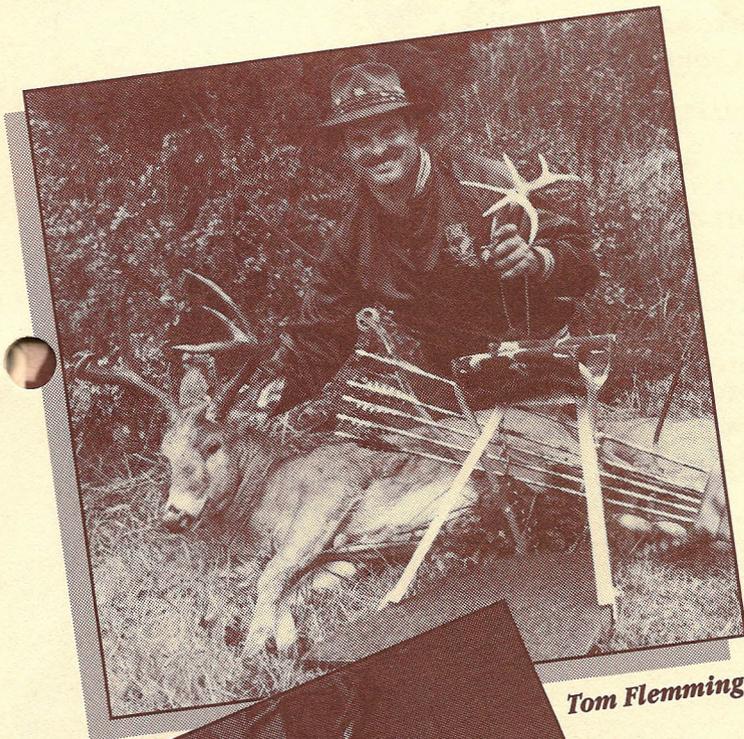
★ Camping Areas, Meals & Parking
Available On Grounds

★ Plenty Of Motels Nearby

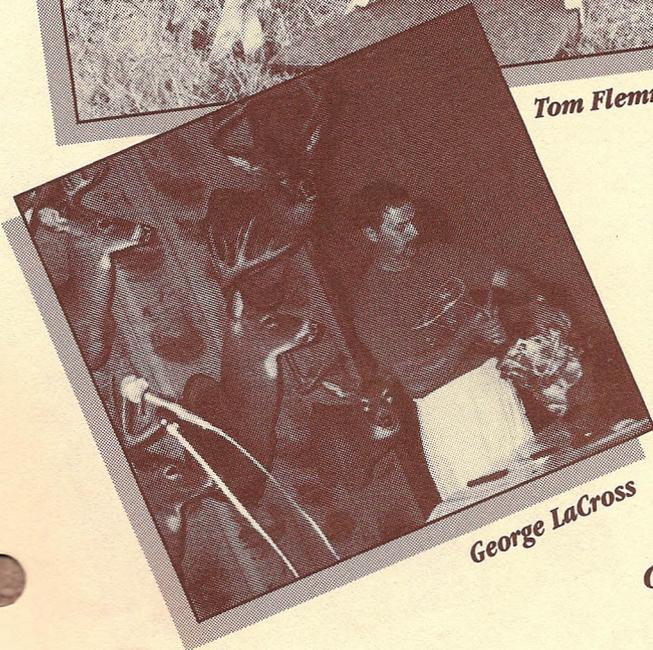
DEALERS WELCOME!

Under Pavilion or Open Air Spaces. Tents and tables available.

Contact: Kenny Sorrels, P.O. Box 2002, Wise, VA 24293
(703) 328-8485 (H) (703) 523-4669 (W)



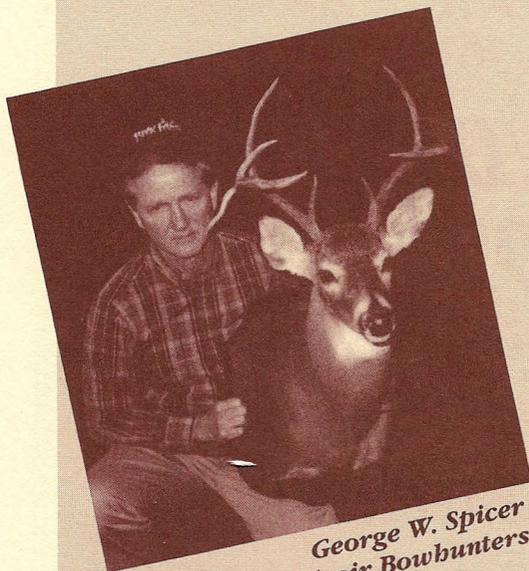
Tom Flemming



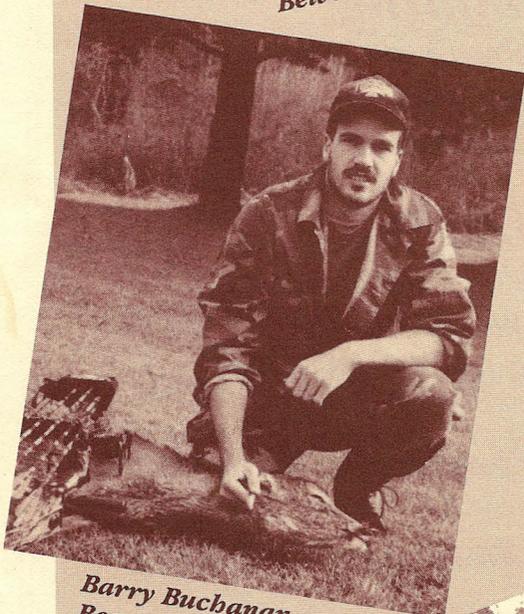
George LaCross

THIS IS ONE BOWHUNTERS' EVENT YOU WON'T WANT TO MISS!

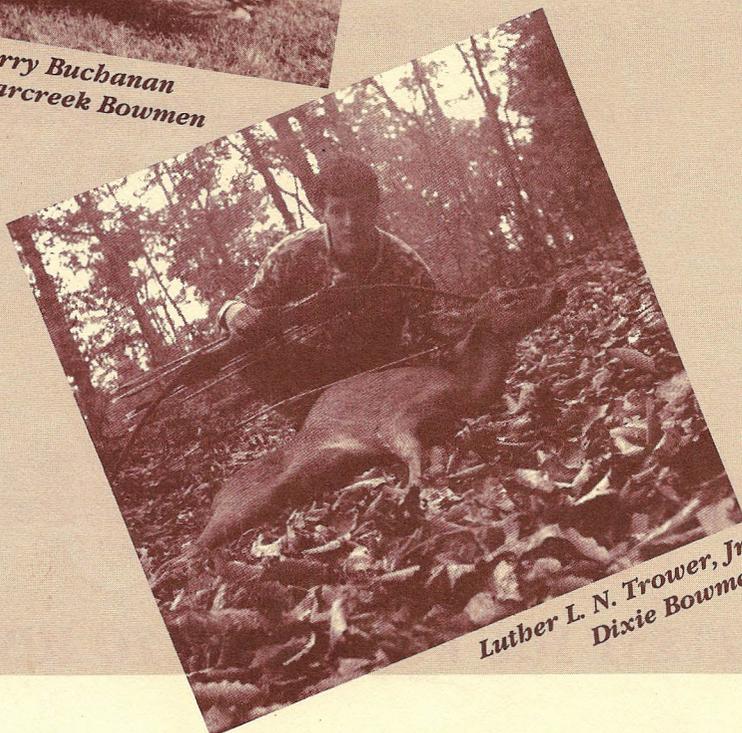
Happy Hunters



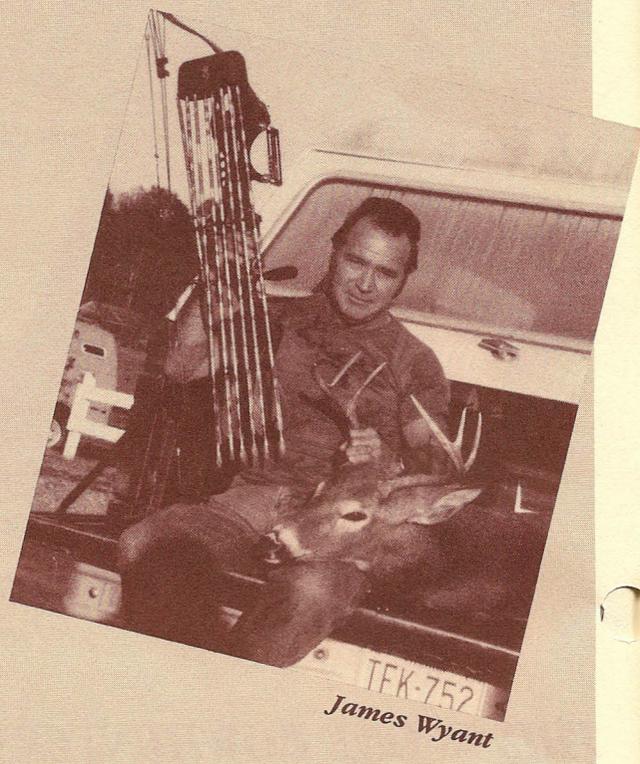
*George W. Spicer
Belvoir Bowhunters*



*Barry Buchanan
Bearcreek Bowmen*



*Luther L. N. Trower, Jr.
Dixie Bowmen*



James Wyant

Southern Maryland Bowhunters Jamboree

August 14 - 16 1992

Eutaw Forest Archers



★ Casual and Multiple Registration

★ Stay the weekend!
Primitive Camping Available



★ Seminars ★ Guest Speakers

★ Archery Equipment Sales

★ August 14—Coon Shoot at Dusk

★ August 15—3D Shoot—10:00 a.m.-4:00 p.m.

★ August 16—3D Shoot—10:00 a.m.-3:00 p.m.

For more information contact
Dennis Spears, President
(301) 248-4899



A portion of the proceeds from this shoot will be donated to the Maryland Department of Natural Resources.

First Cub/Youth Championship Shoot

Saturday, July 25, 1992—Massanutten Archery Club—Front Royal, VA.
 Registration: 8-9:30 a.m. Shotgun Start: 10:00 a.m.

- Cub, Youth, Young Adult only.
- All participants to receive a medal.
- Food & drinks provided for all shooters.
- Winners in each class to receive trophy. 1st, 2nd, 3rd place.
- NFAA Field Round will be shot.
- No registration fee.
- All groups chaperoned.
- Door prizes—all shooters eligible.
- VBA class structure will be used for Young Adult, Youth and Cub.
- Any shooter eligible.

DOOR PRIZES NEEDED!!

Parents May Chaperone, But Not With Own Child Trophies Awarded

CHAPERONES NEEDED!!

*** IBO Range Open For Adults Award Ceremony and Picnic at 4:30 p.m.

DONATIONS ACCEPTED!!

*** \$5.00 Registration Fee

MASSANUTTEN ARCHERY CLUB FIELD/HUNTER PIN SHOOT ON SUNDAY, JULY 26TH.

Accommodations available in the area:

Quality Inn—Front Royal	703-635-3161
Midtown Motel—Front Royal	703-635-2196
Skyline Resort Motel—Front Royal	703-635-5354
Gooney Creek Campgrounds—Front Royal	703-635-2741
KOA Campgrounds—Front Royal	703-635-2741
Scottish Inns—Front Royal	703-636-6168
Strasburg Hotel—Strasburg	703-465-9191

Attractions in the area:

Skyline Caverns	Apple Blossom Mall
Skyline Drive	Golf
Strasburg Emporium—Antiques	Shenandoah Caverns
Oasis Vineyard	Several gift and craft shops
New Market Battlefield	Flea Market

Return To: Lauren Fristoe
 1315 Robin Hood Lane
 Front Royal, VA 22630

or Brenda Dyer
 Rt. 1, Box 1530
 Front Royal, VA 22630

Pre-Registration

Name: _____

Address: _____

Phone No.: _____

Age: _____ Sex: _____

Release Aided? Yes _____ No _____

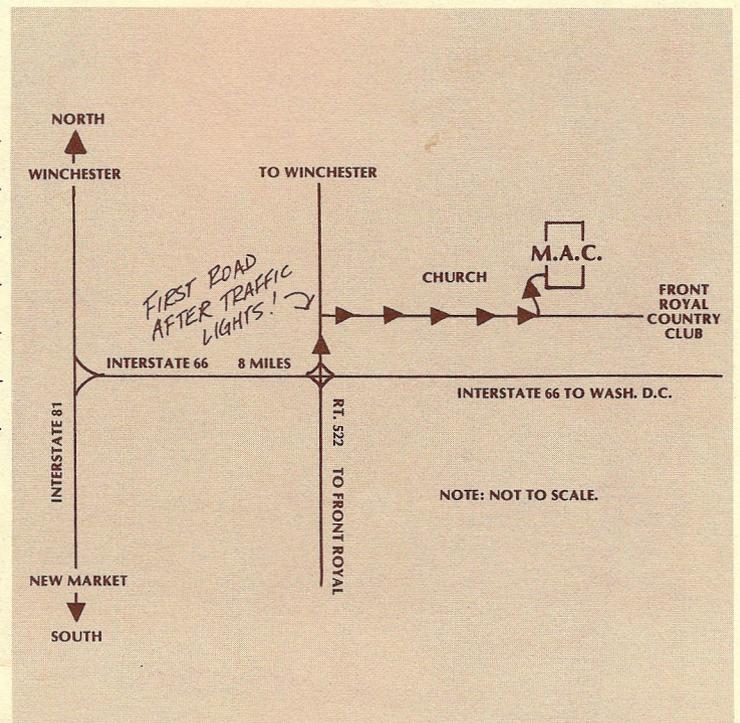
Freestyle _____

Barebow _____

Bow Hunter _____

Traditional _____

Bow Hunter Freestyle _____



VIRGINIA BOWHUNTERS ASSN., INC.

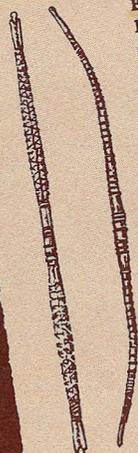
Ann R. Boyd, Cor. Sec.

265 Wilkins Drive

Winchester, VA 22601

Bulk Rate
U.S. Postage
PAID
Permit No. 21
Bridgewater, VA 22812

BOW



BOW. The chief weapon of the early American Indian. Bows were made from many types of springy woods, as well as from bone and horn, and were of different lengths and shapes. The Indian prized his bow and took good care of it, keeping it unstrung and in a bow case when not in use. Even after he had acquired firearms, he usually carried his bow whether in war or on the hunt.

There were four general types of bows in use by the Indians. One was the self-bow, made of one long length of wood, popular with the eastern Indians. Then there was the compound bow, made of several layers of wood, bone, or horn, glued and lashed together, used by some Plains tribes. The third was the sinew-wrapped bow, made of a brittle wood which was wrapped from wing to wing with sinew. This bow was used among the Alaskan tribes. The last type was the sinew-backed self-bow strengthened by a strip of sinew or rawhide, glued and lashed to the back of the bow, much used by the California tribes.

The Eskimo made a bow out of whales' ribs, set on a wooden grip. The North Pacific tribes used a short bow with flat wide wings and a round grip. The Florida Indians' bow was as long as the height of the man who used it. Bows of the Plains Indians were shorter than most, as they usually were shot from horseback. Some Plains tribes, as well as the Apache, bent back the tips of the wings in the shape of a cupid's bow. Pueblo Indians made small painted bows to be used in religious ceremonies and to be buried with the dead.

Bows were made of the wood of the Osage orange (*bois d'arc*), found west of the Mississippi, ironwood, second growth hickory, cedar, dogwood, white ash, and mulberry.

Indians learned the use of the bow from childhood. Many stories have been told of how Indians could shoot four or five arrows, one after the other, before a man could reload his gun. When the Spanish *conquistadores* found that an arrow would go through a coat of mail they adopted as armor the quilted cloth of the Mexican Indians.

The University of California tested the distances arrows could be shot. These tests showed: Osage bow, 92 yards; Apache bow, 120 yards; Blackfoot bow, 145 yards; Cheyenne bow, 165 yards; Yaqui Indian bow (from Mexico), 210 yards; English long bow, 250 yards.