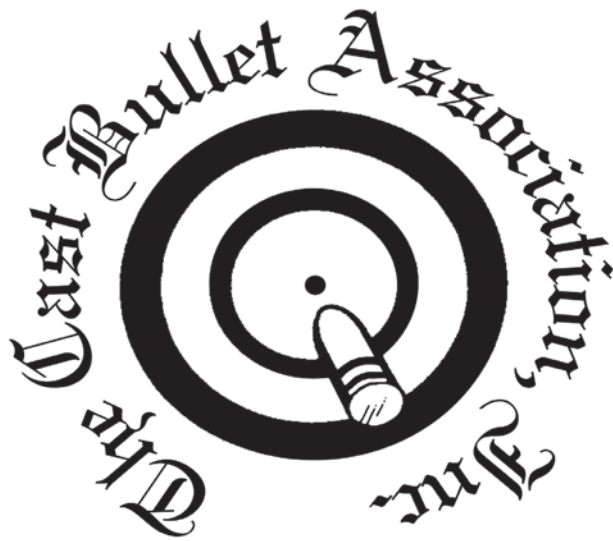


The Fowling Shot

Journal No. 243
September - October
2016



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COMMITTEE
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Journal No. 243 September - October 2016

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2016 CBA Military Rifle National Tournament

Paul Bunyan Rifle and Sportsman's Club
Puyallup, WA
June 11 & 12, 2016

To start things off, the new Class Champions are... tiny drum roll; Ron Heilman, Big Bore. Ric Bowman, Modified Irons. Loren Peter, Off Hand. And... Mike Kastning, Issue *AND* Modified Scope. The man just likes to shoot. And he can! Mike also managed to post four new IS potential records in 5 and 10 shot Groups at 100 and 200 yards. A Single and three Aggregates. I'll leave you in suspense until they're verified.

Still dominating the equipment list are the Workhorse, the 1903 Springfield and its derivatives. 15 of the 20 shooters chose them, while two of the "others" shot 1873 Springfields. One P14 Enfield, one M39¹ Finn, and one 1917 Eddystone made up the remainder. I'm guessing it won't be that much longer before there won't be *anything* but '03's on the line. Nothing wrong with that, but what's happened to the *fun* part? As for loads, Alliant 2400 seems to be most popular, 8 shooters using from 16.5 to 19 gr with 200+ gr bullets. There were only six powder types used, IMR 4759 had 4 users, 5744 and 4198 had two each. And one lonely BB guy used 11.1 gr of Red Dot. Yes, his 350 gr bullet made it through the target backer. We looked close for dents, though.

As for the annual weather report: In a word - *Windy!* That's about as stiff a wind I've ever seen at the Paul Bunyan range, especially so when it was going in two different directions at once, 10 feet apart. We lucked out with no appreciable rain, just a smattering a time or two. It was some better Sunday, but still no cake walk.

Hats off to Jane Ann Anderson, Bonnie Peter and Connie Bowman for their untiring work on keeping the vital job of the Stat office running smoothly. Also a nod to Bud Hyett for his generous assistance in maintaining the very necessary match data updating. And of course, our untiring target crew. Darian Martin, Mason Simon and Kyle Peter, who lived up to their reputation for prompt and correct postings. Loren Peter did his usual fine job of running the line, and also shot the Off Hand event, winning the top spot this time.

Overall attendance was down somewhat, like nearly 10 percent, but those here fought a pretty close contest for the most part, and more importantly, all seemed to be enjoying themselves, which is the whole point.

Next year we'll be out east again, Hawkeye Gun Club, Sioux City, IA. I just hope there's no repeat of the *deluge* we enjoyed the last time there. Hope to see y'all then.

View of the firing line. Photo by Mrs. Schauf



100 Yard 5-Shot Group

Competitor	Class	Comp. #	M1	M2	M3	M4	M5
Mike Kastning	ISS	9	2.310	1.620	1.130	1.664	1.681
Mitch Migliaccio	ISS	24	3.149	2.657	2.606	1.949	2.590
Leonard Westhoff	ISS	4	2.909	2.283	3.046	3.008	2.812
Duane Nelson	ISS	12	4.297	2.695	2.505	1.879	2.844
Andrew Sedivy	ISS	1	3.611	4.516	3.802	2.289	3.555
David Crippen	ISS	10	3.078	12.000	1.217	DSQ	DNF
Ric Bowman	MIS	7	1.696	1.361	1.389	1.455	1.475
Marvin Almaas	MIS	5	2.327	1.262	1.949	1.710	1.812
John Schauf	MIS	2	2.812	2.924	1.587	2.473	2.449
Andrew Sedivy	MIS	13	1.805	5.812	3.111	3.000	3.432
Bud Hyett	MIS	19	3.154	5.627	2.905	4.174	3.965
Mike Henniger	MSS	15	0.791	1.124	1.451	0.976	1.086
Ron Bingham	MSS	8	1.083	1.321	1.588	0.724	1.179
Doug Shellenberger	MSS	3	1.336	1.898	1.206	0.902	1.336
Mike Boynton	MSS	17	2.337	1.153	1.016	1.263	1.442
Mike Kastning	MSS	21	2.307	1.867	1.425	1.245	1.711
Ron Lee	MSS	22	2.349	1.467	2.379	1.626	1.955
Harlan Holter	MSS	18	2.164	2.213	2.284	2.032	2.173
Bill Anderson	MSS	6	2.121	2.599	3.909	2.110	2.685
Ben Locicero	MSS	16	DNF	DNF	DNF	DNF	DNF
Alice Gardner	MSS	20	DNF	DNF	DNF	DNF	DNF
Ron Heilman	BB	11	3.367	2.305	2.546	4.099	3.079
Tim Turner	BB	14	3.650	3.027	6.327	4.261	4.316

100 Yard 10-Shot Group

Competitor	Class	Comp. #	M6	M7	M8
Mike Kastning	ISS	9	1.135	2.050	1.593
Mitch Migliaccio	ISS	24	2.283	3.970	3.127
Andrew Sedivy	ISS	1	4.103	3.728	3.916
Leonard Westhoff	ISS	4	4.025	4.249	4.137
Duane Nelson	ISS	12	4.887	4.194	4.541
David Crippen	ISS	10	15.500	1.698	8.599
Ric Bowman	MIS	7	2.773	2.398	2.586
Marvin Almaas	MIS	5	2.610	2.999	2.805
John Schauf	MIS	2	3.091	2.860	2.976
Andrew Sedivy	MIS	13	4.413	5.275	4.844
Bud Hyett	MIS	19	4.501	6.283	5.392
Bill Anderson	MSS	6	1.686	1.635	1.661
Ron Bingham	MSS	8	1.596	1.797	1.697
Mike Kastning	MSS	21	1.925	2.012	1.969
Doug Shellenberger	MSS	3	2.183	1.959	2.071

Ron Lee	MSS	22	1.923	2.518	2.221
Mike Boynton	MSS	17	2.786	2.087	2.437
Mike Henniger	MSS	15	3.299	1.977	2.638
Harlan Holter	MSS	18	3.552	2.190	2.871
Alice Gardner	MSS	20	DNF	DNF	DNF
Ben Locicero	MSS	16	DNF	DNF	DNF
Ron Heilman	BB	11	4.850	5.321	5.086
Tim Turner	BB	14	5.766	5.276	5.521

100 Yard Score

Competitor	Class	Comp. #	M9	M9-X	M10	M10-X	M11	M11-X
Mitch Migliaccio	ISS	24	95	1	95	1	190	2
Mike Kastning	ISS	9	97	2	92	1	189	3
David Crippen	ISS	10	91	1	95	0	186	1
Leonard Westhoff	ISS	4	90	1	91	2	181	3
Duane Nelson	ISS	12	93	2	82	0	175	2
Andrew Sedivy	ISS	1	89	0	85	2	174	2
Marvin Almaas	MIS	5	96	1	97	3	193	4
John Schauf	MIS	2	93	1	100	2	193	3
Ric Bowman	MIS	7	97	3	93	1	190	4
Andrew Sedivy	MIS	13	85	2	87	1	172	3
Bud Hyett	MIS	19	79	0	83	0	162	0
Mike Kastning	MSS	21	99	3	100	8	199	11
Mike Henniger	MSS	15	98	3	99	5	197	8
Bill Anderson	MSS	6	96	5	99	1	195	6
Harlan Holter	MSS	18	95	1	99	2	194	3
Doug Shellenberger	MSS	3	98	3	95	1	193	4
Ron Bingham	MSS	8	97	3	95	0	192	3
Mike Boynton	MSS	17	97	1	94	1	191	2
Ron Lee	MSS	22	82	2	93	1	175	3
Ben Locicero	MSS	16	DNF	DNF	DNF	DNF	DNF	DNF
Alice Gardner	MSS	20	DNF	DNF	DNF	DNF	DNF	DNF
Ron Heilman	BB	11	87	1	88	2	175	3
Tim Turner	BB	14	77	0	73	0	150	0

200 Yard 5-Shot Group

Competitor	Class	Comp. #	M12	M13	M14	M15	M16
Mike Kastning	ISS	9	2.866	2.119	2.421	3.841	2.812
Andrew Sedivy	ISS	1	6.375	4.366	5.224	5.586	5.388
Duane Nelson	ISS	12	5.080	6.375	7.125	4.246	5.707
Mitch Migliaccio	ISS	24	6.040	6.750	4.960	5.561	5.828
Leonard Westhoff	ISS	4	10.875	10.500	6.500	6.116	8.498
David Crippen	ISS	10	9.375	DNF	DNF	4.262	DNF

Competitor	Class	Comp. #	M17	M18	M19	M20	M21	M22	M22-X
John Schauf	MIS	2	2.349	2.573	4.095	2.786			
Marvin Almaas	MIS	5	3.978	2.838	3.563	3.473			
Ric Bowman	MIS	7	2.615	2.532	5.366	3.819			
Andrew Sedivy	MIS	13	4.000	7.125	6.625	8.162			
Bud Hyett	MIS	19	11.875	8.375	7.750	5.805			
Mike Henniger	MSS	15	2.532	3.085	1.567	3.041			
Doug Shellenberger	MSS	3	2.845	2.198	1.701	3.574			
Bill Anderson	MSS	6	2.565	2.640	2.312	2.941			
Mike Kastning	MSS	21	2.266	2.584	3.219	2.731			
Ron Bingham	MSS	8	3.183	3.293	1.746	3.079			
Ron Lee	MSS	22	6.312	4.861	3.675	4.598			
Alice Gardner	MSS	20	4.909	6.250	5.838	4.002			
Ben Locicero	MSS	16	DNF	DNF	DNF	DNF			
Mike Boynton	MSS	17	DNF	DNF	DNF	DNF			
Harlan Holter	MSS	18	DNF	DNF	DNF	DNF			
Ron Heilman	BB	11	6.006	3.670	4.913	5.584			
Tim Turner	BB	14	4.677	7.875	8.500	8.375			

200 Yard 10-Shot Group

Competitor	Class	Comp. #	M17	M18	M19
Mike Kastning	ISS	9	4.131	5.093	4.612
Duane Nelson	ISS	12	7.500	5.534	6.517
Mitch Migliaccio	ISS	24	6.375	7.375	6.875
Leonard Westhoff	ISS	4	6.250	8.750	7.500
Andrew Sedivy	ISS	1	10.250	8.375	9.313
David Crippen	ISS	10	DNF	17.500	DNF
Marvin Almaas	MIS	5	4.265	4.769	4.517
Ric Bowman	MIS	7	4.635	4.410	4.523
John Schauf	MIS	2	6.500	4.134	5.317
Bud Hyett	MIS	19	9.000	9.000	9.000
Andrew Sedivy	MIS	13	13.000	9.750	11.375
Mike Kastning	MSS	21	3.198	3.760	3.479
Mike Henniger	MSS	15	4.203	3.749	3.976
Bill Anderson	MSS	6	4.096	4.267	4.182
Ron Lee	MSS	22	5.038	3.801	4.420
Doug Shellenberger	MSS	3	5.069	4.198	4.634
Alice Gardner	MSS	20	4.610	5.940	5.275
Ron Bingham	MSS	8	4.081	7.000	5.541
Mike Boynton	MSS	17	DNF	DNF	DNF
Harlan Holter	MSS	18	DNF	DNF	DNF
Ben Locicero	MSS	16	DNF	DNF	DNF
Ron Heilman	BB	11	8.500	6.625	7.563
Tim Turner	BB	14	DQ	11.5	DNF

200 Yard Score

Competitor	Class	Comp. #	M20	M20-X	M21	M21-X	M22	M22-X
Mike Kastning	ISS	9	93	2	97	2	190	4
Mitch Migliaccio	ISS	24	93	2	93	2	186	4
Leonard Westhoff	ISS	4	89	1	90	2	179	3
Duane Nelson	ISS	12	89	2	84	0	173	2
David Crippen	ISS	10	83	0	90	0	173	0
Andrew Sedivy	ISS	1	79	0	84	1	163	1
John Schauf	MIS	2	96	4	93	3	189	7
Ric Bowman	MIS	7	94	3	95	2	189	5
Marvin Almaas	MIS	5	94	0	92	0	186	0
Bud Hyett	MIS	19	79	1	81	0	160	1
Andrew Sedivy	MIS	13	76	1	81	0	157	1
Mike Kastning	MSS	21	100	6	98	3	198	9
Bill Anderson	MSS	6	98	4	97	2	195	6
Ron Bingham	MSS	8	99	2	94	2	193	4
Mike Henniger	MSS	15	96	4	96	4	192	8
Doug Shellenberger	MSS	3	97	4	87	1	184	5
Ron Lee	MSS	22	85	3	96	2	181	5
Alice Gardner	MSS	20	92	2	86	0	178	2
Ben Locicero	MSS	16	DNF	DNF	DNF	DNF	DNF	DNF
Mike Boynton	MSS	17	DNF	DNF	DNF	DNF	DNF	DNF
Harlan Holter	MSS	18	DNF	DNF	DNF	DNF	DNF	DNF
Ron Heilman	BB	11	86	0	82	1	168	1
Tim Turner	BB	14	80	0	85	0	165	0

Grand Aggregate

Competitor	Class	Comp. #	M23	M24	M25	M25-X
Mike Kastning	ISS	9	1.543	1.949	379	7
Mitch Migliaccio	ISS	24	2.752	3.282	376	6
Leonard Westhoff	ISS	4	3.530	3.944	360	6
David Crippen	ISS	10	2.889	DNF	359	1
Duane Nelson	ISS	12	2.849	3.900	348	4
Andrew Sedivy	ISS	1	3.124	4.286	337	3
John Schauf	MIS	2	1.962	2.817	382	10
Marvin Almaas	MIS	5	1.772	2.532	379	4
Ric Bowman	MIS	7	1.633	2.423	379	9
Andrew Sedivy	MIS	13	3.336	5.266	329	4
Bud Hyett	MIS	19	4.095	4.946	322	1
Mike Kastning	MSS	21	1.529	1.854	397	20
Bill Anderson	MSS	6	1.996	1.876	390	12
Mike Henniger	MSS	15	1.182	2.313	389	16

Ron Bingham	MSS	8	1.296	2.233	385	7
Doug Shellenberger	MSS	3	1.313	2.194	377	9
Ron Lee	MSS	22	2.193	2.215	356	8
Ben Locicero	MSS	16	0.000	DNF	DNF	DNF
Mike Boynton	MSS	17	DNF	DNF	DNF	DNF
Harlan Holter	MSS	18	DNF	DNF	DNF	DNF
Alice Gardner	MSS	20	DNF	DNF	DNF	DNF
Ron Heilman	BB	11	2.800	4.433	343	4
Tim Turner	BB	14	3.997	DNF	315	0

Offhand:

Competitor	Class	Comp. #	OH1	OH1 X	OH2	OH2 X	OH-Agg	OH-Agg X
Ron Lee	MSS	22	77	0	78	0	155	0
Duane Nelson	ISS	12	70	0	72	1	142	1
Ron Heilman	BB	11	64	0	78	0	142	0
Doug Shellenberger	MSS	3	67	0	70	0	137	0
Ben Locicero	MSS	16	67	0	70	0	137	0
Mike Kastning	ISS	9	67	0	67	0	134	0
Ric Bowman	MIS	7	71	0	59	3	130	3
David Crippen	ISS	10	67	0	53	0	120	0
Tim Turner	BB	14	63	0	51	0	114	0
Andrew Sedivy	ISS	1	68	0	44	0	112	0
Loren Peter	Open		85	0	82	0	167	0

Class Champions: Ron Heilman, Big Bore; Ric Bowman, Modified Irons; Mike Kastning, Issue AND Modified Scope; Loren Peter, Off Hand



CBA News

By John Alexander
CBA President

New Board Members

I am happy to announce that two members have come forward to take over the Director of Membership and Director of Services jobs. Robert Eggleston of Springfield will be the new Director of Services and David Reiss of Santa Fe, Texas will be taking care of the duties relating to membership. Thanks Bob and David. We appreciate your willingness to help us keep CBA serving its members.

Both of these positions have been held by Eunice Birmley for the last several years. Eunice has done an outstanding job with both positions and can literally be said to have rescued CBA from disaster by taking over at a crucial time. The healthy growth in CBA membership over the last few years would not have happened without Eunice's tireless efforts. Eunice there is no way we can thank you enough. Best of luck in enjoying the additional time you will now have for your many interests.

The proposed rule changes published in the Fouling Shot #239 for January/February were approved by the CBA Board of Directors. Although these changes do not weaken the rigor required to set a CBA national record they are significant changes in the way local and regional matches may be conducted at the option of the match director and for that reason I am repeating the new article 6.1.2 and 6.2.2 below. These should be read carefully to avoid confusion.

6.1.2 For all score targets in the National Tournament and all targets submitted for scoring as possible national records, only one shot per bullseye is allowed. In regional or local matches either one or multiple shots per bullseye are allowed at the discretion of the match director. However, even if multiple shots are fired on each bullseye, a score aggregate must be fired as four separate 5 shot matches and each match must use the proper time required by Article 7.1. and consist of one shot fired on each of the five bullseye during each time period.

If a shooter shoots a score in the first 5 shot match that makes it mathematically possible to break the aggregate score record at that distance or 100/200 yard combined aggregate score record (if both distances are to be shot at the shoot or tournament involved) by firing a record breaking score in the remaining three or seven matches, he may shoot the following matches firing one shot per bullseye on three to seven separate target cards while the other shooters are firing multiple shots per bullseye

during the same three or seven remaining time periods.

6.2.2 For all group targets in the National Tournament and all targets submitted for measurement as possible national records moving backers must be used to verify the shots fired. For local and regional matches moving backers are not required but their use is encouraged.

New CBA Web Page

The Association has signed a contract with Morgan IDS Inc. of Mingo Junction, Ohio to develop a new CBA Web page. We anticipate that a new and improved look will help us in attracting new members and serving existing members better. More news later.

Call for Help to Establish a CBA Group Page on Facebook

A lot of activity about cast bullet shooting is happening on line. It would be to our advantage to make sure that CBA has more of a presence. We need a member who is familiar with Facebook to help in setting up a CBA group page on Facebook. If you are familiar with Facebook and can help us, give me a call at 541-526-1424 or email to the address inside the front cover. ©

CBA-BSA
By Bob Birmley

The CBA has donated \$2,500 to the Philmont Scout Ranch for the purchase of shooting benches to be used at the new shooting range.

The Philmont Scout Ranch is located in NE New Mexico, covers approximately 137,000 acres and has more than 23,000 scouts participate in the program every summer. Each scout will spend two weeks doing everything that scouts do and that will now include safe gun handling and shooting on the new shooting range. The shooting complex, including a classroom, will be used for other events open to the public such as Hunter Safety courses.

I was very proud to represent the Cast Bullet Association

Change Your Address?

To insure delivery of your Fouling Shot,
send address changes to:

David Reiss
4206 S Elm Ave
Santa Fe, Texas 77517
281-935-7610
chefreiss@gmail.com

at the ribbon cutting on April 30. The CBA was in good company. Other sponsors included Hodgdon Powder Co. and Safari International.

I can assure all of our CBA members that our donation was deeply appreciated and what a great way to introduce 23,000 scouts a year to the world of shooting. ©

Bob Eggleston, New Director of Services

It's always interesting as where to start a Bio. The beginning started in September 1938 on Grand Avenue in St. Louis, very close to the inside of a Taxi according to my Mother. I began shooting at the age of 9 under the tutorage of my Father and Grandfather. I graduated to centerfire and reloading at 13, progressed to bullet casting in my early twenties and I've been doing that off and on ever since.

I moved to a SW Missouri town at 11 where a whole new world opened up for a city kid. I went to high school with a graduating class of over 600. Flunked out of first year college after high school, a great party time! Entered the US Navy at 19 years old. Served as Antisubmarine Warfare instructor during the cold war of the 1960's. Married the Lobster Fisherman's daughter while stationed in Maine.

Finished college in 1968, moved to New Hampshire where I could cast bullets and shoot pretty much unlimited. Always enjoyed the outdoors from an early age forward, previously liked to hunt anything that slithered, crawled, walked or swam. Now a days mostly hunt paper targets and enjoy it immensely.

Employed as an Occupational Safety Professional most of the working life, served as safety engineer and safety manager for 36,000 people during my career.

Divorced the Lobster fisherman's daughter and married a lovely Irish lady from New Hampshire. Moved to Pennsylvania to work for GE at their locomotive works in Erie. Loved sailing on Lake Erie and the great perch dinners served there.

Sold all the guns built by my friend Dick Strite while in Pennsylvania, and regretted that, got caught up in Radio Controlled Model Aircraft scene.

Moved to Cincinnati working for GE's Aircraft Engine business, regained interest in shooting and bullet casting. Local range had up to 600 yards of facilities.

Retired from GE in 1998, built a large house in Maine on 45 acres. Not a lot of shooting during those years living there, local Rod & Gun club there heavy into Trap & Skeet shooting, always been a rifle & pistol person. Limited casting and reloading there.

In 2007 relocated to SW Missouri to spend some time with my aging Father. Believe this current residence is number 19!

Enjoying it here, good shooting friends, FANTASTIC wife, great local range, aging gracefully but stubbornly. Doing volunteer work for the local DAV chapter, drive veterans 1-2 days per week to state and regional medical facilities.

Believe the key to mobility is MOVEMENT. Daily walks of 2-5 miles keeps me going. For a 77 year old guy running on a pacemaker battery I am doing remarkably well.

Plan to reload, shoot and enjoy it for quite a few years into the future. Currently reloading for multiple rifle and pistol calibers. Like the concept of cast epoxy coated bullets. Sure wish SR 4759 would become available again, a great cast bullet powder. Keep moving, shooting and reloading! ©

David Reiss, New Director of Membership

My name is David Reiss and I am talking over the position of Director of Membership from long time director, Eunice Birmley. Thank you, Eunice!

I am married to my lovely wife Kathleen and have three children and four grandchildren. Although I have only been a member of the association for a few years, I have been shooting, collecting, handloading, casting, training & most of all, learning daily for the past 41 years. I am currently retired / disabled, but I was a long time police officer (firearms instructor and armorer) and then later in life an executive chef (life long dream). My collection of firearms is very eclectic. Most unusual in my arsenal is a cache of more than 70 Iver Johnson handguns, from new in the box turn of the century (1900) specimens, to working cut-away salesman / training samples and rare one of a kind prototypes. Don't ask me why, I just got the bug.

I started casting when I was seventeen to help feed my small collection (at the time) of handguns. Without cast bullets I would have not been able to afford to shoot during my college years. I attended Stephen F. Austin State University and majored in criminal justice. I was so very fortunate to have William "Bill" Toney as a professor. For those of you that are not familiar with Bill Toney, he was a national handgun champion, WWII intelligence officer and founding member of the US Border Patrol Academy. I have fond memories of him sitting in his office answering his office phone in his loud voice saying, "Charlie, how are you doing", beginning a long conversation with Col. Charles Askins. It was not uncommon for Bill Jordan or famous gun scribes to stop by for a visit. Toney graced the cover of

Guns magazine in the 60's with a headline, "East Texans Can Shoot." It was a great experience and I have other wonderful stories. Later I will relate those experiences with Mr. Toney and his cronies.

Lastly I have been a member of PSC (a private gun club in the Houston area, psc-range.com) since the early 80's. Our club boasts a membership of over 1200. However there has never been a "cast bullet" match in it's history as far as I know. According the CBA president John Alexander, there has never been a CBA match held in Texas, wow! So if there are any members near the Houston area, please contact me. I would love to get something going.

My hope is to transition into this position as smoothly as possible, but please bear with me. If you have any question please contact me, I would love to talk to you.

David Reiss
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Errata

In the Loading Chart on page 242-13 there is an error. The second 32 H&R Mag. load should be 2.5 grs of HP-38, not HP-31.

An Accuracy Sucker in the Back Streets

By Steve Hurst
Tucker, GA

I am a sucker for accuracy; if I miss I want it to be my fault and there are plenty of faults to be found in my shooting. I paid \$\$\$ for a 22 sporter with a match grade barrel and I am very happy. If I do my part it will put 10 rounds under a ½ inch at 50 yards, it was money well spent. I had my 45 reworked by Jim Clark, which cost more than the purchase price of the gun. I gladly paid Jim because the gun has given me years of shooting pleasure. I cannot duplicate Jim's test target short of a machine rest, however the knowledge of the gun's capability makes me work harder just to be worthy of the gun. I never owned a super accurate 44 magnum, that was about to change.

In the late 1980's, after emerging from two decades under Bangor Punta; where some say quality suffered greatly at Smith and Wesson, Smith management decided to get back into the high quality revolver business. The idea was to offer semi-custom 44 Magnum revolvers to dedicated silhouette shooters and hunters.

A group of experienced employees was picked to do the assembly. Each gun was individually machine-rest tested and sent out with the test target. Guns not meeting accuracy criteria were sent back for rework. This prevented

any lemons from reaching the hands of serious shooters, who were sure to notice. The guns were the 629 Custom 44 Magnums.

The 629 Custom guns produced excellent accuracy, but some guns fired phenomenal groups. Those firing exceptional groups were marked DX and sold at a premium price. The DX guns were sold with interchangeable grips and sights. Naturally I had to have one! Yes, I know one group does not guarantee accuracy, but it is better than nothing. I decided on a 6 1/2 inch barrel and put in my order.

When the revolver arrived I opened the blue box to reveal an excellent example of industrial art. The action was bank vault tight and the trigger needed no attention from the local gunsmith. The single action was crisp and the double action was butter smooth. It was apparent someone who knew what they were doing had put the gun together. The 6-1/2 inch full lug stainless steel barrel gave forward weight which promised easy precision shooting. The Morado grips were smooth, none of the usual Smith checkered Goncalo grips which are rough on the hands in a Magnum.

The test target was 5 shots in 1-3/4 inches at 50 yards with Federal 44 Magnum loads. Some of the DX revolvers were shipped with a test target under one inch. I was hoping for one of those. Of course a small test group could have been luck, I was happy with 1-3/4 inches. Why a 5 shot group from a 6 shot revolver? Were they short on ammunition? Someone at Smith should have their fanny spanked for that! What if the chamber not used was out of alignment? I have tested revolvers with one chamber with this condition.

This gun deserved a scope and I had a Leopold 4X extended eye relief ready and waiting. Off came the iron sights, on went the scope. The revolver was already tapped for a scope, so mounting the scope was quick and easy.

There was a copper wash in the barrel and a quick treatment with Sweet's removed it. I guess they don't clean the guns after testing. I grabbed several boxes of my favorite 44 cast bullet loads and headed for the range. The first 6 shots at 50 yards made a 2 ½ inch group, I was hopeful. The next six made that 12 in 6 inches! The next 12 shot "group" will not be mentioned. A look in the barrel revealed rifling covered in lead and the cylinder throats were lead choked. It was not the loads; I could shoot them in a Model 29 with consistent 4-5 inch 50 yard groups and no leading. I wondered if the DX was worth all the extra dollars.

At home, after a lead mining operation with Chore Boy copper cleaners on bore brushes, the cause was revealed. The chambers were smooth, but the cylinder throats and the forcing cone were extremely rough. Stainless steel is hard to machine, so I never expect stainless guns to be as smooth as regular steel, however the DX was unusually rough. There was also a slight choke in the barrel at the frame which does not help accuracy with cast bullets.

Perhaps the test target was a fluke? Before firing a letter

off the S&W I headed to the local armaments store and plunked down a large chunk of change for a box of Federal 240 grain jacketed hollow point 44 Magnum loads. I knew better than complain to Smith about hand load accuracy. I went straight from the store to the range to generate a target to send to S&W with the bad news.

Except - the groups with jacketed bullets were just like the test target and some were better! I shoot 6 and 12 shot groups with a 6 shot revolver, None of this phony 5 shot stuff. Fortunately all the chambers seemed to be equal.

The revolver was performing as advertised. This was a case where jacketed bullets were able to overcome gun limitations and outshoot cast bullets. Target velocity loads might have worked, but this was a 44 Magnum and powder puff loads were not on the agenda. Several hundred dollars of jacketed ammo would probably smooth things up, but I had no intention of doing that. Cast bullets do a fine lapping job, but normal shooting takes a long time. I was not about to shoot 1000 or more cast rounds waiting for good shooting to develop. I recut the forcing cone with a good reamer, but this would not cure the cylinder throats. This was a poster child for fire lapping.

Many shooters are hesitant about fire lapping. However anytime you shoot, you are lapping. Primers contain powdered glass and this provides the abrasive. The most important factor is lapping marks are in the direction of bullet travel, where many machining marks are 90 degrees to bullet travel, which is bad, especially for cast bullets.

Some shooters have used very fine abrasive and polishing compounds to get a mirror finish in the bore. My observation is normal shooting produces a bore condition about equal to a 320 grit surface finish, so I usually use 320 grit Clover silicon carbide for fire lapping. However I did not want to enlarge the cylinder throats as they measured 0.430 which is ideal for the 0.429 bore. I decided to go slow and polish the tops. You cannot replace metal, so it pays to go slow. I agonized over the choice of 600 grit or 400 grit for a few days. 400 won.

I also did not want to over-lap the barrel as it gets 6 bullets for one in each chamber. The barrel was very smooth, so only the rough forcing cone and slight choke were problems. If the barrel is rough or has a bad choke, and the chambers are ok, it is better to hand-lap the barrel.

The usual way to fire lap is to embed the lapping compound into the bullet by rolling the individual bullets in compound on a glass or metal plate. This is a slow, messy procedure I have used with success in the past, but I wanted to try a different way. I reasoned if blow-by is prevented there is no reason to pre-embed the compound as the gun will do the work for you.

Lyman 429421 a 255 grain SWC was cast of 2% tin 4% antimony alloy, the as-cast diameter was 0.433. Usual fire lapping uses a softer alloy, but I wanted to polish the tops and decided on 18 BHN alloy. I washed Clover 400 grit silicon carbide with mineral spirits to remove most of the grease, and added Lee Liquid Alox. The carbide settles rapidly, so I stirred continuously while painting the

unlubricated bullets with a small paint brush. I allowed the bullets to dry overnight.

Cases fired in the DX were primed without sizing, and 3.5 grains of Red Dot was dropped in. Winchester Grex, a granular polyethylene plastic shotshell buffer filled the case so the bullets could be seated by hand. The diameter of the bullets prevented them from entering the cylinder throats.

After six rounds I cleaned and looked - no difference. After 24 rounds I could see a little change at the forcing cone. At 48 rounds the forcing cone was smoother; however there was little change in the cylinder throats. At 72 rounds there was visual smoothing in the throats, I decided to stop, clean and test fire. Yes, 400 grit was very slow, I probably should have used 320!

A word about cleaning; revolvers spray lapping compound out the cylinder gap. This gets into the crane bearings and the action and will continue to cut. You must disassemble the revolver completely! Disassemble, wash with solvent, buff the parts with a clean cloth, lubricate and reassemble. There are special tools for working on Smith revolver actions, if you do not have these and are not experienced, leave this to a gunsmith.

At the range I tried the original cast bullet loads. The result was most satisfactory; the first 12 shots at 50 yards were under 2 inches! There were few streaks of leading, but this did not change in 50 rounds. I retired to the rifle range and proceeded to bounce gallon milk jugs at 200 yards. After I got the hold over, the misses were entirely my fault, I was happy. ©

Tales from the Back Creek Diary

Academic Curiosity Can Be Dangerous, So Kids, PLEASE Don't Try This at Home!

By C.E. "Ed" Harris
Gerrardstown, WV

Both of my Ruger Vaqueros in .44 Magnum and .44-40 have HUGE forcing cones, large enough to accept a .44-40 cartridge, case neck and all with free space all around it! Inserting a .45 Colt bullet pulled from a factory round suggests their forcing cones were cut to normal dimensions

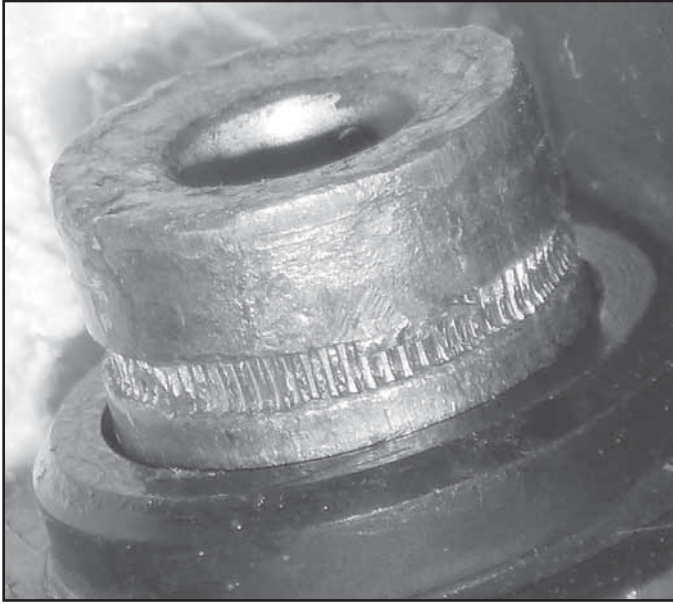
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.45 Colt factory swaged bullet is swallowed up in the forcing cone of the 44-40 Vaquero

for a .45!

It appears that Ruger didn't change their setup when changing from .45 to .44 Vaquero barrels. I say this because both of my Vaqueros, built two years apart, were cut this way. Interestingly, the forcing cone of my .44 Magnum Super Blackhawk is much tighter, as is my S&W Model 544. While a huge forcing cone might be more forgiving of sloppy timing and loose cylinder lockup in a worn out work gun, it is not the ideal choice for gilt-edged target accuracy.



(Left) .45 Colt factory lead fired through the 44-40 barrel of the Ruger Vaquero. (Right) S&W M1917 converted to .45 Colt.

It appears not to affect practical field utility, grouping of one inch per ten yards being satisfactory for a fixed sight utility gun. The Ruger barrel extension protrudes minimally through the frame opening and the threaded barrel shank is well supported. The large Vaquero is not a strength issue, and it doesn't lead either.

While comparing both .44 Vaquero forcing cones to the one in my .45 Blackhawk convertible, I tried both Blackhawk cylinders (.45 ACP and .45 Colt) for fit in both Vaquero frames. They fit, timed and indexed with acceptable cylinder gap. Cylinder interchangeability combined with generous tolerances entertains interesting fantasies for expedient emergency ammo exploitation after "TEOTWAWKI." Hmmm....

Knowing from experience testing Ruger revolvers at the factory, I knew all large frame Ruger single-actions, such as the Original Vaquero are "hell for strong." I decided, purely for academic curiosity to shoot a few W-W factory 255-grain, standard pressure lead bullet .45 Colts and some cast lead .45 ACP wadcutter in both Vaqueros to see how well the "Squeeze Bore" Ruger .45/.44's performed .

Most people would expect that playing .45/.44 "Squeeze Bore" firing .45 Colts through a .44-40 barrel would run the pressure and velocity up, but this was NOT the case. Velocities with the Vaquero were NORMAL for what you would expect for the larger cylinder gap. Cases ejected easily and came out "smoky." Experience testing standard pressure loads in .38 Special, which are normally loaded with fast-burning powders similar to Bullseye, 231 or Unique, the observed Delta-V of sampling hundreds of guns from police orders, was about 10 fps for each 0.001" change in cylinder gap from a "Mean Assembly Tolerance" of 0.006" /-0.002"/+0.000, the build standard at Ruger for new revolvers before proofing. With a similar pressure, lead bullet round like the .45 Colt, similarly loaded with "fast" powder I would expect the same result, and that is exactly what the data here show.

But the proof of the pudding is in the shooting. If you look at this pair of 18-shot

Velocity Test of .45 Colt converted 5-1/2" S&W M1917 vs. 5-1/2" Ruger .44-40 Vaquero with .45 Colt NM Blackhawk cylinder

Ammunition	S&W converted M1917 New .45 Colt Cylinder Cylinder gap 0.004"	Ruger Vaquero .44-40 NM Blackhawk .45 Colt cyl. Cylinder gap 0.008"
New Winchester 255-grain lead	852 fps, 17 Sd, 40 ES	793 fps, 12 Sd, 32 ES
Old Western 255-grain Lubaloy	866 fps, 20 Sd, 52 ES	799 fps, 8 Sd, 21 ES
200-grain FN, 7.2 grs. Bullseye	945 fps, 14 Sd, 34 ES	912 fps, 14 Sd, 42 ES

chronograph targets shot at 25 feet while resting over the roof of the car, if one were to guess which group was the .45 M1917 S&W and which was the .45/.44-40 Squeezebore Ruger, most people not tipped off ahead of time would guess wrong! Kids, please don't do this at home! But I knew that inquiring minds would want to know. ©

“On the Range and in the Field” With the .38 Special and .357 Magnum

By R. Dale McGee

Like many others before me, I spent a lot of time in the field with my .38/.357's revolvers. They were and are a “natural”, a near perfect blend of decent power, accuracy, and size. When I was a youngster, just starting into competitive shooting, the .38 Special was THE caliber for the centerfire stage of NRA Bullseye. Smith & Wesson produced the wonderful Masterpiece series (“K” frame .32's and .38's). Colt had the Officers Models and later the much acclaimed Python.

I, like most of my fellow shooters, confess to a bit of bias in my choice of handguns. The bias is not always logical (I guess that's why they call it “bias”, not facts (:>)). At any rate, in my early years, money was very tight and it



Smith & Wesson K-38 Masterpiece with Bo-Mar Rib and custom grips

seemed to me that Smith & Wesson's offered better value for the dollar, as compared to the Colts. They just simply cost less. Once I was sold on Smiths, I mostly, not always, stayed with them. In later years, I came to add Ruger to my fan base, in addition to my Smiths.

My first major handgun buy was a Smith .357. It would later be labeled by the factory as the Model 27. The large “N” frame plus the 6.5” barrel made this a rather large handgun for general use. It was quite accurate with a variety of cast bullets and handloads, even with .38 Special cases.

My family had a small hardware store and appliance repair center and I grew up in the business. We had one corner devoted to guns and ammunition. I could get ammunition wholesale (we had an FFL) but could also get components wholesale. It was a “no brainer” and I started casting my own bullets and reloading at the suggestion of my father at the rather early age of 14. I was given Elmer Keith's little blue book, “Sixgun Cartridges and Loads” and that became my textbook. Elmer did not lead me astray.

My father and I started shooting at a local gun club. The club was small, but had an excellent range (25 and 50 yards for pistol and up to 300 yards for rifles). The range was on farm land leased from a local farmer. Sometimes we had to run the cows off the range before we started shooting, but to someone who spent a number of years on a working farm, no problem. A good part of the members were older, very experienced, and talented shooters. They were truly a bunch of real “gunnies.” I listened, watched and learned. I noticed that the shooters mostly used lighter loads in their handguns. I asked why and was told that accuracy was king. Plus, the lesser recoil of lighter loads allowed them to recover from recoil quicker on the timed and rapid fire stages. In those days, revolvers were used for the centerfire stage AND often for the .45 stage of the NRA matches. It's hard to imagine that, now, but we were just learning how to make match pistols out of 1911's. New Colt 1911's, of the times, were lucky if they would break 6” at 25 yards. After we learned how to accurize 1911's, 2” or so, at FIFTY yards, were/are feasible. Then the switch to autos came pretty quickly as there is no doubt that an auto is easier to make good scores on timed and rapid fire stages of fire.

On the other hand, while autos can be quite effective in

Load Chart

Loads that work well in my guns:

- 1 - **.38 Special** cases with the H&G #50 or #251 full wadcutter over 3.5 grs. of Bullseye or equivalent (about 850 fps)
- 2 - **.38 Special** cases with the Lee 158 gr. RF ahead of 5.2 grs. of Win 231 or HP-38 for about 950 fps
- 3 - Full load using **.357 cases** for varmints with the Mihec 359640 cast hollow point, loaded long, ahead of 15.0 grs. of H110 (about 1300 fps).

NOTE:

You will notice I often mention using .38 Special cases in my .357 revolvers. You will have to clean the chambers in your revolvers due to carbon/lube build up just in front of the .38 Special case mouth BEFORE using .357 cartridges. You can load comparable loads with the use of a chronograph in .357 cases but I have found that wadcutter loads often shoot better in the shorter .38 Special cases due to better combustion of the relatively small powder charge. YMMV

the field as well as on the range, their habit of tossing brass "to the winds" is not helpful when hunting. I have used auto's in the field a good bit, but much prefer revolvers for this purpose. Good revolvers still have a price advantage, too (compared to most centerfire Match autos). Most of us do NOT have an unlimited budget so that can be really important for us ordinary mortals.

I have used full house .357's when hunting but they have certain definite disadvantages. As I have said before, hunting edible small game, is essentially a relatively close range affair. There is NO advantage using full house .357 loads for this purpose. In fact, they can and do cause unnecessary damage to meat and after all that is one of the main purposes to hunting- to put "meat on the table". Perhaps more important, after you pass 1000 fps, the noise can cause serious, permanent hearing loss, almost instantly. Noise damage is accumulative and most of us do not use hearing protection while hunting. Electronic earmuffs can be helpful under these circumstances but also can be quite distracting (at least in the types I have

tried).

The above reasons are why my chosen .38/.357 loads are similar to my recommendations for the smaller .32's. That is, a "full charge" .38 wadcutter load for squirrels and relatively close range rabbits and a RF or SWC .38 "mid-range" load for general use. One of the things seldom talked about is the value of a good "mid-range" load (say, a 160 gr. RF or SWC at 800-1000 fps) is for the larger animals that may be encountered. I'm thinking, primarily, of coyotes and feral dogs. From time to time, farmers who raise sheep and cattle in this area have been bothered by sheep and calf kills. Further, a feral dog pack is one of the most dangerous animal threats to humans that a hunter is apt to run across. My own grandfather was attacked by a dog pack while walking on his own farm. Fortunately, he had slipped his Colt Banker's Special into his pocket before the walk. It saved him from probably serious injury or worse, without a doubt. I myself have been seriously dog bitten on more than one occasion and I will testify that this is NO fun whatsoever.



Smith & Wesson Model 686-4 with 6" barrel and Simmons Red Dot Sight. This is a superb small game and varmint revolver when properly loaded as well as a fine revolver for the range.

At any rate, a good load with a proper bullet can save the day. The .38 Special got a bad rap for a defense load, back in the day, simply because of the round nose bullets that were used. A round nose bullet simply slips through flesh and if the central nervous system is not interrupted, the stopping power is just not there. On the other hand, a properly shaped cast bullet can double or triple the stopping power of the .38 Special. Ed Harris has written extensively about the efficacy of the "full charge wadcutter" in the .38 Special and my experience in the field matches his recommendations. You seldom hear about "stopping power" when talking about hunting small game, but it IS important. As a youngster, before I learned this, I had some failures on small game. As an example, once I was using a match rifle (.22 rimfire) for squirrel hunting. On this occasion, I couldn't see the head, so put the round just behind the shoulder (standard velocity). The squirrel reacted to the hit but ran off. I am sure that



This is an extremely useful hollow point bullet cast from a Mihec Cramer Style bullet mold. Loaded in a full house .357 it is a SERIOUS load for Varmints. Not recommended for edible small game.

he died, he just became buzzard bait instead of in my bag. That will NOT happen with a body hit in the correct location with a properly shaped bullet in most any centerfire caliber. We owe it to the game (and us) to make clean kills.

That brings up another point. You have to do YOUR part, too. A hit in the gut from a large caliber handgun will NOT do the job. I basically have two aiming points on a small game animal. One is the head, and the other is just behind the shoulder (or as I state, "Through the Slats"). "Through the slats" puts the bullet through the heart and lungs area. It typically gives 100% stops with small game. No meat is wasted, but it IS effective. However, if the animal is a varmint, a shot through the shoulders is my preferred target. Of course, if the animal is facing you, then the chest shot is taken.

Hunting with a handgun can be very demanding. It is up to YOU to do your homework AT THE RANGE, so that you can be effective IN THE FIELD. I have found that handguns require considerably more trigger time than rifles. That was one of my serious motives for starting to cast bullets and reload when a youngster. That allowed me to shoot all I had time for even with a limited budget. I found animal targets to be very helpful when practicing. Not only do you get handgun practice you also are able to "engrave in the brain" as to WHERE to hold on an animal for best results.

Attention CBA Members:

Your articles are needed and appreciated. You can submit articles on disk, by email, typewritten or hand written. Send articles to:
The Cast Bullet Association
6465 Parfet St.
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grlatham@comcast.net

At any rate, I believe that most will find the .38 Special/.357 Magnum to be an excellent choice for handgun hunting of edible small game. There is a terrific selection of appropriate platforms for the calibers. I have a fondness for S&W "L" frame revolvers. The 4" carries better but the longer sight radius of a 6" barrel works better for most of us. On the other hand, my Model 520 with 4" barrel carries a Red Dot Sight and also carries well. It's a bit lighter than my 4" 686 while both shoot VERY well. My 6" Model 686 with Red Dot Sight is also an excellent choice if a bit heavy (and long). The size issue is much reduced by using a good holster rig for the larger handguns. My choice for the bigger handguns is the Bianchi Hush System across the chest holster. I have hunted extremely rough country with that rig without issue.

No discussion of desirable handguns would be complete without discussing the sidearm used when bird hunting with a shotgun. I have spent many days in bird hunting both quail and grouse in the rugged hills of SE Ohio. This is very demanding but very rewarding hunting and one of the most sporting activities that one can do. Often when doing so, I would come across a sitting rabbit (both cottontails and when grouse hunting in Michigan (locally known as "Patridges" or "Pats") the much larger snowshoe rabbits. Snowshoes would bust out of cover and run about twenty-five yards, then sit down, momentarily, to see if we were following. While they were running, I would place my shotgun between my knees, draw my handgun carried cross draw, and when they sat, immediately put a round through their "slats". My absolute favorite revolver for these purposes was my Smith 60-4 (a 3" double underlugged barrel .38 Special with fully adjustable target sights). In spite of the short barrel, I could do quite good work with

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this fine revolver. They are nearly unobtainable these days (they were only made for a short while as a special run) but a good substitute would be a somewhat bigger, but, dandy, Smith Model 15 (4" barreled "K" frame with target sights). These were issue for many police departments in the country for many years. As such, there have been a LOT of them made and can often be found in excellent condition for a decent price.

There are other fine handguns that will work as well as my choices. If your preferences run to single actions, Ruger has made some fine examples. I have a Ruger .357 Single Action with a six inch barrel. I don't have any Colts, but I cannot imagine a better small game revolver than a Colt Python or Diamondback. There are others, but you get the idea.

The main thing is, once you have your loads working well, plan to spend a lot of time on the range. You will know when you are ready (any High Expert or Master NRA Pistol Shot already has the requisite skill). Then it is time to head for the field. I wish you all the best. Say "Hi!" to Brer Rabbit for me! ©

Cast Bullet Action in a Winchester Model 95 Lever Action 30-06

By John Rhodes

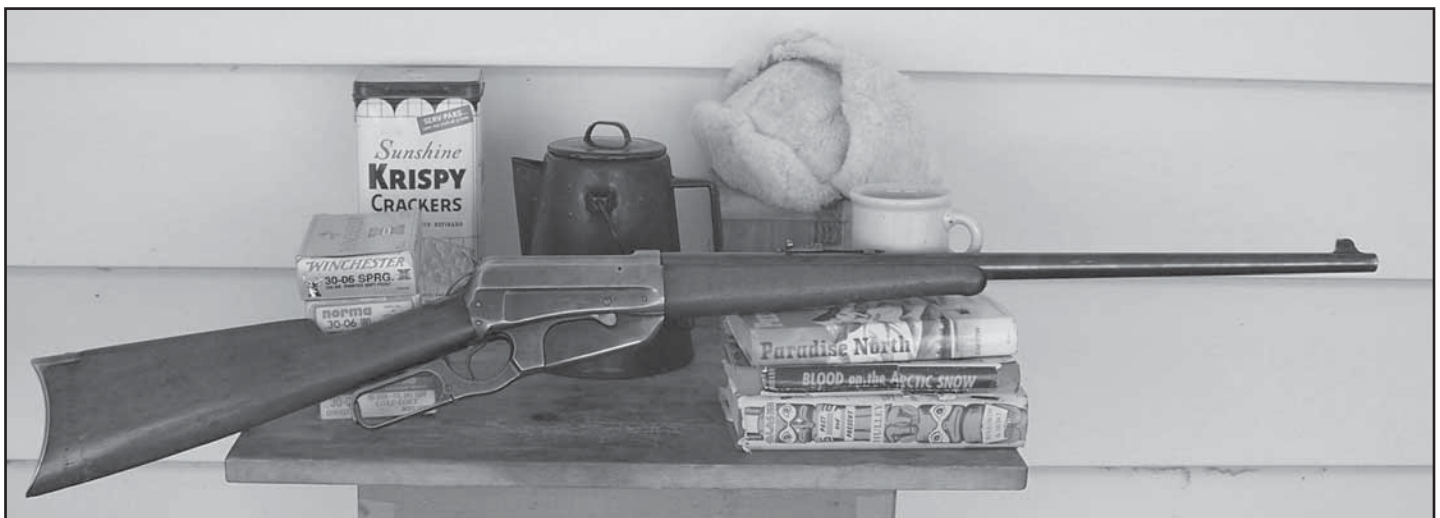
After many years of shooting cast bullets, we tend to learn so many things along the way that we eventually discover what we thought was good performance in a firearm, can really be improved upon. So what takes place when we return to a firearm we had once worked with and years later, apply the knowledge we've gained over the

years and apply it to that old rifle? That's what I'm going to tell you about as I took up re-evaluating my Winchester 30-06, Model 95's performance.

Back in the 1980's I was shooting this rifle with the Lyman #311284, 210 gr. bullet and though I got good results with it, accuracy would deteriorate after a few groups were fired. The load I was using didn't appear to lead the bore but something was causing the problem. First off, back in the 1980's, I was sizing the bullets because I thought it was necessary. I never dreamed of heat treating bullets because it was too technical, used special equipment, and just not worth the bother. I was also using alox lube because that was all I ever saw discussed in the mainstream publications that might mention cast bullets.

Over the years of reading *The Fouling Shot* and being a pen-pal with a number of Cast Bullet Association members, all the above was found to be untrue. Bullets can be loaded and fired as cast which I do often and in many cases, attain better accuracy. Both quenched and heat treating is simple and doesn't involve the use of any special equipment. One other revelation was the use of NECO's Taurak T250 for lube and dusting the bullets with mica. The mica isn't always necessary but in some instances, it sure helps.

Back in the 1980's, the only bullet I used was the Lyman 210 gr. #311284 made up of air cooled wheel weight alloy, sized .309", and lubed with alox. My new tests included both the Lee #C309-200-R, 200 gr. bullet, the Lyman #311299, 200 gr. bullet, and of course the Lyman #311284, 210 gr. bullet. Once again, all the bullets were made up of wheel weight alloy. The Lyman 210 gr. bullet was designed for the 30-40 Krag and can be used in 30-06's but in many cases, it has to be seated extra deep depending on each rifle's lead. In the case of this rifle, I was able to seat the bullet well out of the case which this rifle's lead allows. This also allows the gas check to be located at the shoulder and not some distance below though I know the need to do this



The old Winchester model 95, 30-06 the author was using for the shooting tests. Photos by author.

SHOOTING CHART 1

Bullet Charge/Powder	Three Shot 100 yd Group Size (inches)						Average
----------------------	---------------------------------------	--	--	--	--	--	---------

Lee #C309-200-R cast 200 gr. round nose gas check (non-sized)

24 gr Reloder 7	1 3/16"	1 13/16"	4 11/16"	2 7/8"	2 5/8"	2 7/8"	<u>2.677"</u>
25 gr IMR 4198	3 5/8"	3 3/4"	2"	4 5/8"	2 1/4"	5"	<u>3.542"</u>
25 gr IMR 4895	3 5/8"	5 1/2"	3 3/8"	4 3/8"	4 3/16"	2 7/8"	<u>3.983"</u>
25 gr IMR 3031	3 11/16"	3 1/4"	2 5/8"	4 5/16"	1 7/8"	5 3/4"	<u>3.583"</u>

Lyman #311299 cast 200 gr round nose gas check (non-sized)

24 gr Reloder 7	1 1/16"	2 1/16"	2 15/16"	1 5/8"	3 7/8"	3 1/8"	<u>2.449"</u>
25 gr IMR 4198	2 3/8"	1 9/16"	1 9/16"	3 11/16"	4 1/8"	2 7/16"	<u>2.624"</u>
25 gr IMR 4895	2 3/4"	2 3/8"	1 15/16"	5 1/8"	3 3/4"		<u>3.188"</u>
25 gr IMR 3031	3 1/8"	3 1/4"	3 13/16"	2 5/8"	3 1/2"	1 7/8"	<u>3.031"</u>

Lyman #311284 cast 210 gr round nose gas check sized .309"

24 gr Reloder 7	3 5/16"	2 9/16"	3 5/16"	1 13/16"	1 3/8"	1"	<u>2.230"</u>
25 gr IMR 4198	5 7/16"	6 1/4"	1 3/8"	3 5/8"	4 13/16"	3 3/4"	<u>4.209"</u>
25 gr IMR 4895	3 1/16"	3 1/4"	1 13/16"	2 5/8"	3"	1 9/16"	<u>2.552"</u>
Average velocity was 1355 ft/sec with a 26 ft/sec deviation							
25 gr IMR 3031	4 1/2"	3 1/8"	5 1/4"	2 15/16"	2 5/8"	1 1/8"	<u>3.261"</u>
39 gr IMR 4350	5 1/8"	7 3/4"	5 3/8"				
Average velocity was 1750 ft/sec with a 31 ft/sec deviation							

Lyman #311284 cast 210 gr round nose gas check (non-sized)

24 gr Reloder 7	4 7/16"	7/8"	4 1/2"	2 7/8"	4 3/8"	1 1/4"	3.052"
25 gr IMR 4895	1 3/8"	1 1/4"	2 15/16"	3 11/16"	1 3/4"	2"	<u>2.167"</u>

All tests included Remington cartridge cases and Winchester WLR large rifle primers.

is controversial it is still my preference.

While choosing loads, several things were taken into consideration. This old rifle isn't a bolt action so I wanted to keep the loads on the light side so why not try "what was done before and do it some more," especially when good

accuracy had been the result. I had good results shooting the 200 gr. cast bullets in my Dad's Enfield 30-06 in 2012 through 2013 so I decided to use those same loads. This included 24 gr. of Reloder 7, 25 gr. of IMR 3031, IMR 4198, and IMR 4895. The only other load I included was that 1980's load of 39 gr. of IMR 4350 behind the 210 gr.

The Cast Bullet Association, Inc.

2016 Bench Rest & Military Registered Match Schedule

Schedule Updates Can Be Viewed And Printed From CBA's Website www.castbulletassoc.org/matchschedule.shtml

Be sure to Always Check with the Match Director Before Travelling to the Match

ATGLEN SPORTSMEN'S CLUB, INC. – ATGLEN, PA

Kurt Menkes (610) 444-0340 kamenk@yahoo.com
693 E. Baltimore Pike, Kennett Square, PA 19348
100/200-yd score: 1-23, 2-27, 3-26, 4-23, 5-21, 6-25, 7-23,
8-27, 9-24, 10-22, 11-26, 12-24

BALD EAGLE SPORTSMAN'S ASSN. – HUGO, MN

John Kaufenberg (651) 429-7837 jetstar@comcast.net
3816 Riviera Circle East, White Bear Lake, MN 55110
100-yd score & group: 5-12, 6-16, 8-4, 9-22
The above dates are also open to CBA Military Classes.

CHARLOTTE RIFLE & PISTOL CLUB, INC. – CHARLOTTE, NC

H.L. Yarborough (803) 329-1618 hly@comporium.net
824 McNair Street, Rock Hill, SC 29730
100/200-yd score and Offhand 2-3, 2-6, 3-2, 3-5, 4-2, 4-6, 6-1,
6-4, 7-2, 7-6, 8-3, 8-6, 9-3
Regional Tournament 5-6/7

CLARK RIFLES, INC. – VANCOUVER, WA

Paul Gans (360) 882-0502 psgans@comcast.net
7600 SE Maple Ave., Vancouver, WA 98664-1737
Traditional Bench Rest 100/200-yd score: 1-23, 2-20, 3-19,
4-16, 5-21, 6-18, 7-23, 8-20
Military Matches 100/200-yd score: 1-6, 2-3, 3-2, 4-6, 5-4, 6-1,
7-6, 8-3

EMERALD EMPIRE GUN CLUB – SPRINGFIELD, OR

BENCH REST Rick Parra (541) 521-4823
P. O. Box 929, Springfield, OR 97477 rickparra@comcast.net
Mixed 100/200-yd score & groups: 2-13, 3-12, 4-9, 5-14, 6-11,
7-9, 8-13 & 14, 11-12, 12-10
The above dates are also open to CBA Military Classes.

FAIRFAX ROD & GUN CLUB, INC. – MANASSAS, VA

Mark Mazzocco 703-989-0365 mmazzocco@pobox.com
5526 Vantor Lane, Springfield, VA 22151
100/200-yd score 4-24, 5-29, 6-26, 7-31, 8-28, 9-25, 10-30

HAMILTON RANGE-HAMILTON, MT

Pete Berube 406-375-0050 recurve53@yahoo.com
P.O. Box 517, Hamilton, MT
100/200 yard score and group 4-9, 6-4

ISSAC WALTON LEAGUE of AMERICA – LEETOWN, WV

Scott Lowther (304) 263-9646 scott@progressive-printing.com
42 Cool Glen Circle, Harpers Ferry, WV 25425
100/200-yd score: 3-3, 4-7, 5-5, 6-2, 7-7, 9-1, 10-6, 11-3
WV State Championship: 8-4

KENMORE SHOOTING RANGE – BOTHELL, WA

Roger Ulrich (425) 788-4715 quiltedgun@msn.com
18828 181st Place NE, Woodinville, WA 98072
100/200-yd score: 3-26, 4-23, 5-28, 6-25, 7-23, 8-27, 9-24

MINNETONKA GAME & FISH CLUB – NOWTHEN, MN

Jim Scearcy (612) 384-8589 jscearcy@gmail.com
15130 Crestview Lane, Minnetonka, MN 55345
200-yd score & group: 5-25, 6-29
Region 5 Tournament 7-23/24
The above dates are also open to CBA Military Classes.

MODESTO RIFLE CLUB – MODESTO, CA

Paul Ott (209) 239-3041 Ott52@aol.com
308 N. Sheridan Ave., Manteca, CA 95336-4019
100/200-yd score: 2-20, 4-16, 6-18, 7-16, 8-20, 10-15, 12-10

OAKDALE GUN CLUB – LAKE ELMO, MN

Tom Acheson achesontom@hotmail.com
10386 10th St., Lake Elmo, MN 55042
100-yd score & group: 4-25, 6-6, 7-11, 8-15
The above dates are also open to CBA Military Classes.

PAUL BUNYAN RIFLE & SPORTSMAN'S CLUB – PUYALLUP, WA

Mitch Migliaccio (253) 841-1218 Evenings
yellowing@comcast.net
15908 80th Ave E, Puyallup, WA 98375
Military Matches 100/200yd.score 3-12, 4-9, 6-13, 7-9,
10-10, 11-14
100/200-yd groups 5-14
Military National Tournament 6-11 & 12

SPOKANE RIFLE CLUB – SPOKANE, WA

Don Barron (509) 993-3916 dbarron4570@gmail.com
18710 W. Old Station Rd., Worley, ID 83876
100-yd Traditional score & group: 4-9, 6-11, 8-20
100-yd Military score & group: 3-26, 5-7, 7-9

TAMAQUA RIFLE & PISTOL CLUB – TAMAQUA, PA

David Martin (570) 366-2220 dfmartin61@comcast.net
205 Ronald Ave, Orwigsburg, PA 17961
100/200-yd score, 100-yd groups: 5-1, 6-5, 7-3, 8-7, 9-4, 11-6
Don Eagan Memorial 10-2
The above dates are also open to CBA Military Classes.

VAN DYNE SPORTSMENS CLUB-Van Dyne, WI

Martin Stenbeck: 920-688-2957 msback@charter.net
www.vdsc.org/Map.htm
Military 100/200yds.score 4-16, 6-18, 8-13

WASHTENAW SPORTSMAN'S CLUB – YPSILANTI, MI

Ed Krasny (734) 971-5077
2811 Hampshire Rd., Ann Arbor, MI 48104
edkrasny@comcast.net
100/200-yd score , 100-yd 10-rd. groups:

TO BE ANNOUNCED

WIND HILL RANGE – ALEDO, IL

Stan Livingston (309) 371-9709 stan2350n@yahoo.com
P.O. Box 412, Oquawka, IL 61469
Military: 100/200-yd score: 1-24, 2-21, 3-20
Traditional BR: 5-14, 6-25, 7-23, 8-20, 10-1
The above dates are also open to CBA Military Classes.
Regional Tournament 4-16

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Military Match Reports

Paul Bunyan Rifle & Sportsman's Club

Competitor		Class		Equipment		Bullets						Loads			
Name	Class	100 Yd Agg	Agg	Cartridge	Rifle Mk	Barrel Mfg	Scope	Mould	Wgt	Alloy	Nose	Bullet	Powder	Prrr	Muzz Vel
Home Town		200 Yd Agg		Model	Lgth - Twst	Power	Design			Ladl/Btm	Base	Lube	Charge	No.	Est / Ch
MD Mitch Migliaccio	Mar 14, '15	12 Entries Cloudy w/sunbreaks 45-55 lt to mod wind Range f													
Marvin Almaas	MI	192-11	359-11	30-06	Same>>>										
Tacoma, WA		167													
Ron Heilman	MS	196-6	387-7	30-06	Same>>>										
Puyallup, WA		191-1													
Ben Locicero	MS	180-3	374-10	30-06	Same>>>										
Puyallup, WA		194-7													
Mitch Migliaccio	IS	172-4	320-5	303 Brit	Enfield	24	—	Lyman	211	WW+2%tin	0.303	NRA	IMR 4198	Fed	1500 E
Puyallup, WA		148-1			#1 Mk III	1-10		314299			0.313		15.0	210	
Ron Rhoten	MS	190-5	367-6	30-06	Same>>>										
Woodinville, WA		177-1													
John Schauf	IS	174-6	344-8	7.65x53	Maus	29	—	Schauf	215	Lead/Lino	0.305	LBT	AA 5744	WLR	1500 E
Tacoma, WA		170-2			1891 Arg	1-10		195SP			0.311	Blue S	18.5		
Leonard Westhoff	IS	151-1	330-2	30-06	Same>>>										
Eatonville, WA		179-1													

Paul Bunyan R&S Club Military Rifle Scores

Competitor		Class		M1		M2		M3		M4		M5		M6		200Yd Overall
Name	Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200Yd Overall Agg X Place			
1	Mitch	IS	90	4	82	172	4	79		69	1	148	1			
2	John Schauf	IS	79	1	95	174	6	84	1	86	1	170	21			
3	Leonard Westhoff	IS	86	4	65	151	1	90	1	89		179	12			
5						0	0					0	0			
6	Marvin Almaas	MI	96		96	192	11	84		83		167	0			
7						0	0					0	0			
8						0	0					0	0			
9	Ron Rhoten	MS	95	2	95	190	5	90	1	87		177	1			
10	Ron Heilman	MS	100	3	96	196	6	98	1	93		191	11			
11	Ben Locicero	MS	91	1	89	180	3	98	4	96	3	194	72			

CBA Military Rifle Match - Paul Bunyan R & S Club					6 Entries	7-14-15	65-75 winds variable Range faces N				
			T 1	T 2	*	T 3	T 3	T 4	T 4		
	Name	Class	10 shot group 300 yards	10 shot group 300 yards	10 shot group Average 300 yards	10 shot score 300 yards	10 shot X 300 yards	10 shot score 300 yards AGG-Temp	10 shot X 300 yards	10 shot score Agg 300 yards	10 shot x Agg 300 yards
1	Mitch	IS	8.875	10.875	9.875	78	1	92	1	170	2
2	Leonard Westhoff	IS	15.375	13.375	14.375	75		84		159	0
3					0.000					0	0
4	John Schauf	MI	9.375	10.225	9.800	95	4	91		186	4
5	Ron Heilman	MI	8.625	11.125	9.875	91	3	76		167	3
6					0.000					0	0
7	Bill Anderson	MS	12.500	6.875	9.688	88	3	81	1	169	4
8	Doug Shellenberger	MS	8.500	14.875	11.688	92	1	78		170	1

Paul Bunyan R & S Club CBA Military Rifle																	
MD Mitch Migliaccio			Jul 11th -15		8 Entries		Range Faces N		O'cast, lt to		mod wii from sw, ter		Temp 60-70				
			M 1		M 2		M 3		M 4		M 5		M 6		M 7		
		Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200 Yd Agg X	Grand Agg	Grand Agg X	Overall Place
1	Mitch	IS-	90		90		180	0	86	2	92		178	2	358	2	
2	Leonard Westhoff	IS-	95	1	89		184	1	90	1	81	1	171	2	355	3	
3							0	0					0	0	0	0	
4							0	0					0	0	0	0	
5	John Schauf	MI-	100	6	97	4	197	10	96	4	98	4	194	8	391	18	3
6							0	0					0	0	0	0	
7							0	0					0	0	0	0	
8	Bill Anderson	MS	97	3	98	4	195	7	98	5	100	5	198	10	393	17	2
9	Doug Shellenberger	MS-	98	5	97	7	195	12	95	2	97	4	192	6	387	18	
10	Ron Heilman	MS-	97	3	96	3	193	6	99	4	97	4	196	8	389	14	
11	Bud Lawry	MS-	100	5	98	6	198	11	100	5	98	5	198	10	396	21	1
12	Ron Rhoten	MS	89	2	95		184	2	96	3	93	1	189	4	373	6	
13							0	0					0	0	0	0	
14							0	0					0	0	0	0	
15							0	0					0	0	0	0	
16							0	0					0	0	0	0	
17							0	0					0	0	0	0	
19							0	0					0	0	0	0	
20							0	0					0	0	0	0	
21							0	0					0	0	0	0	

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Paul Bunyan R&S Club Military Rifle Scores																	
MD Mitch Migliaccio		11-14-15		Entries		Range Faces N		O'cast, wind gusting to 25 fm all directions									
		M 1		M 2		M 3		M 4		M 5		M 6		M 7			
		Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200 Yd Agg X	Grand Agg	Grand Agg X	Overall Place
1	Mitch	IS	89	2	88	1	177	3	89		88		177	0	354	3	
2	Leonard Westhoff	IS	89		91	1	180	1	92	4	84	1	176	5	356	6	1
3							0	0					0	0	0	0	
4	Bud Hyett	MI	87	1	86	1	173	2	70		86	2	156	2	329	4	
5	John Schauf	MI	97	5	99	5	196	10	98	4	99	5	197	9	393	19	1 MW
6	Marvin Almaas	MI	93	1	89		182	1	97	2	94	3	191	5	373	6	
7							0	0					0	0	0	0	
8	Alice Gardner	MS	95	2	84	1	179	3	96	1	98	2	194	3	373	6	
9	Doug Shellenberger	MS	95	5	99	3	194	8	100	2	99	6	199	8	393	16	1
10	Ron Heilman	MS	99	5	96	4	195	9	98	5	98	3	196	8	391	17	2

Paul Bunyan R & S Club CBA Military Rifle																	
Mar 12. '16		10 Entries		Cloudy w/rain showers, sun breaks. Light to moderate wind from East													
		M 1		M 2		M 3		M 4		M 5		M 6		M 7			
		Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200 Yd Agg X	Grand Agg	Grand Agg X	Overall Place
1	Mitch	IS-	91		86	2	177	2	83		85	1	168	1	345	3	
2	L Westhoff	IS	88	5	87	2	175	7	90	3	90		180	3	355	10	
3							0	0					0	0	0	0	
4	Bud Hvett	MI	80		83	1	163	1	83		72		155	0	318	1	
5	John Schauf	MI	98	7	97	3	195	10	99	4	99	5	198	9	393	19	
6	Marvin Almaas	MI	90	1	93	3	183	4	92		91	1	183	1	366	5	
7							0	0					0	0	0	0	
8	Bill Anderson	MS	96	3	97	1	193	4	98	3	95	3	193	6	386	10	
9	Mike Bovnton	MS	98	4	98	3	196	7	94	1	96	3	190	4	386	11	
10	Alice Gardner	MS	95	2	92	2	187	4	96	4	93	3	189	7	376	11	
11	Ron Heilman	MS	95	5	92		187	5	99	4	99	3	198	7	385	12	
12	D Shellenberger	MS	94	3	99	5	193	8	96	2	91	1	187	3	380	11	

Paul Bunyan R & S Club CBA Military Rifle																	
MD Mitch Migliaccio		APR 9, '16		7 Entries		Range Faces N		O,cast w/sunbrakes 50- lt breeze from east									
		M 1		M 2		M 3		M 4		M 5		M 6		M 7			
		Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200 Yd Agg X	Grand Agg	Grand Agg X	Overall Place
1	Mitch	IS-	92	3	98	6	190	9	87		88	5	175	5	365	14	
2							0	0					0	0	0	0	
3							0	0					0	0	0	0	
4							0	0					0	0	0	0	
5	Bud Hyett	MI	91	1	89	2	180	3	91	4	93	3	184	7	364	10	
6	John Schauf	MI-	100	5	98	4	198	9	100	4	97	3	197	7	395	16	
7	Marvin Almaas	Mi-	99	2	99	2	198	4	94	2	96	2	190	4	388	8	
10							0	0					0	0	0	0	
11							0	0					0	0	0	0	
12							0	0					0	0	0	0	
13	Ben Locicero	MS-	93	1	88	1	181	2	81		87		168	0	349	2	
14	Doug Shellenberger	MS-	94	2	94	3	188	5	97	3	97	2	194	5	382	10	
15	Ron Heilman	MS	96	4	94	4	192	8	97	4	100	4	197	8	389	16	

Paul Bunyan Range --- Puyallup, WA

Match Director: Mitch Migliaccio

100 Yd & 200 Yd 5-Shot Groups

MAY 14, 2016

Temp: 55 - 70 F

Skies:

Winds: SSW 3 to 10 MPH

Range Faces: North

Competitor	Class	100 YARD 5-Shot Groups					200 Yd 5-Shot Groups					GRAND AGG
		100 Yd	100 Yd	100 Yd	100 Yd	AGG	200 Yd	200 Yd	200 Yd	200 Yd	AGG	MOA
Ron Heilman	Big Bore	1.886	3.288	2.774	1.970	2.480	4.509	4.526	6.125	6.750	5.478	2.609
Doug Shellenberger	ISSUE	2.642	1.464	1.197	2.338	1.910	5.630	7.375	5.193	3.792	5.498	2.330
Wes Westhoff	ISSUE	2.524	2.141	2.692	2.401	2.440	3.982	7.125	3.793	5.935	5.209	2.522
Mitch Migliaccio	ISSUE	2.996	2.836	3.456	2.148	2.859	3.081	6.115	7.775	4.076	5.262	2.745
John Schauff	MOD IRON	2.342	1.402	1.347	1.913	1.751	2.771	5.922	3.037	4.270	4.000	1.876
Marvin Almaas	MOD IRON	1.761	3.292	1.644	1.600	2.074	4.203	3.283	4.936	4.213	4.159	2.077
Ron Bingham	MOD SCP	1.338	1.315	1.767	1.958	1.595	2.171	2.832	2.752	3.276	2.758	1.487
Bill Anderson	MOD SCP	1.406	1.323	2.067	1.849	1.661	3.224	1.984	2.563	2.765	2.634	1.489
Ron Rhoten	MOD SCP	1.716	0.856	2.439	2.066	1.769	4.813	5.439	5.539	2.678	4.617	2.039
Harian Holter	MOD SCP	2.983	1.643	2.751	2.565	2.486	4.365	5.010	4.502	4.742	4.655	2.406

Paul Bunyan R & S Club CBA Military Rifle																	
Jul 9th. 2016		10 Entries		Cloudy w/rain showers, sun breaks. Light to moderate wind from East													
		M 1		M 2		M 3		M 4		M 5		M 6		M 7			
	Class	100 Yd Score	X	100 Yd Score	X	100 Yd Agg	100 Yd Agg X	200 Yd Score	X	200 Yd Score	X	200 Yd Agg	200 Yd Agg X	Grand Agg	Grand Agg X	Overall Place	
1	Mitch	IS	86	1	84	2	170	3	92	2	93	1	185	3	355	6	
2	John Schauf	IS	95	-	80		175	0	91		94		185	0	360	0	
3	Leonard Westhoff	IS	87	1	86	2	173	3	90	2	82		172	2	345	5	
4							0	0					0	0	0	0	
5	Bud Hvett	MI	82	2	90	1	172	3	79		80		159	0	331	3	
6							0	0					0	0	0	0	
7							0	0					0	0	0	0	
8							0	0					0	0	0	0	
9	Ben Locicero	MS	96	2	98		194	2	99	6	96		195	6	389	8	
10	Ron Bingham	MS	100	6	98	7	198	13	93	4	98	5	191	9	389	22	2
11	Ron Heilman	MS	99	8	100	1	199	9	99	4	99	6	198	10	397	19	1
12	Bill Anderson	MS	93	4	93	1	186	5	99	4	97	3	196	7	382	12	
13	Bud Lawrv	MS	93	1	96	2	189	3	96	3	94		188	3	377	6	
14	Doua Shellenberaer	MS	97		100	6	197	6	97	4	95	1	192	5	389	11	3

MODESTO RIFLE CLUB --- MODESTO, CA

Match Director: Paul Ott

TECH DATA & SCORES

June 18, 2016

Temperature: 84

Skies: Clear

Winds: Gusting to 25 mph

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	Scores		Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																Home Town	Breach Seat PBB Only	Firearm Model	Length - Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Quadros, Norm	PBB	194	2	32 - 40	CPA	RKS	None	Weaver	18 Lb.	S. Brooks	228	L	30 - 1	.	Schutzer	W 296	CCI	1500
Royal Oaks, CA	BrchS	186	1	CPA	Bench	28 - 11	CPA	36	. Oz	230	PBB	N N	Pb - Sn	.	.	15.0	BR 2	Est.
Craig, Frank	HVY	197	5	30	Stolle	Hart	None	Leupold	13 Lb.	Accurate	214	L	Lino-type	300	Texaco	imr 8208	Fed	1950
Soquel, CA	.	182	1	BR	Panda	26 - 11	Wood "T"	36	14 Oz	311230	GsChk	N N	.	310	Turax	27.0	205m	Chro.
Coover, Art	HVY	191	0	30	Remington	Shilen	None	Braska	14 Lb.	Lyman	189	L	Lino-type	301	Texaco	imr8208	Rem	2069
Modesto, CA	.	188	0	BR	40X	24 - 11	McMillan	36	0 Oz	311679	GsChk	N N	.	3105	Turax	27.4	9 1/2	Chro.
Ott, Paul	HVY	147	0	7.5 mm	Taner/Ham	Tanner	None	Leupold	13 Lb.	Lyman	190	BP	Lino-type	298	Texaco	imr 4198	RWS	1800
Manteca, CA	.	96	0	x 55	98	26 - 11	Tanner	24	0 Oz	310334	GsChk	N N	.	310	Turax	22.5	5620	Est.

CHARLOTTE RIFLE & PISTOL CLUB, INC. --- CHARLOTTE, NC

Match Director: H. L. Yarborough

TECH DATA & SCORES

Dixie Regional -- May 6th & 7th, 2016

Temperature:

Skies:

Winds:

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	Scores		Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																Home Town	Breach Seat PBB Only	Firearm Model	Length - Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Bedi, Charles	PRO			308	Remington	Remington	1 deg.	Weaver	10 Lb.	RCBS	183	BP	Lino-type	303	LBT	imr8208	Fed	1900
Rock Hill, SC	.			Win	700 SPS	26 - 12	H-S Prec.	36	6 Oz	180 SP	GsChk	N N	.	311	Blue	28.5	210m	Est.
Billings, James	UnP			30	Remington	Hart	1 deg.	Weaver	42 Lb.	Accurate	214	L	Lino-type	300	LBT	Varget	Fed	.
Factoryville, PA	.			BR	XP 100	26 - 11	D. Martin	36	. Oz	310230e	GsChk	N N	.	310	Blue	34.5	205m	.
Bottiger, Jerry	PRO			308	Savage	Savage	None	Weaver	11 Lb.	Accurate	217	L	Lino-type	301	Gray's	H 4895	Fed	1725
Mifflinburg, PA	.			Win	12	26 - 10	Savage	36	8 Oz	311230e	GsChk	N Y	.	310	# 24	28.5	210m	Chro.
Bozarth, Harry	PBB			32 - 40	Miller	Douglas	None	Leupold	16 Lb.	Darr	208	BP	24 - 1	319	SPG	imr 4227	Fed	1425
Lancaster, SC	BrchS			Win	Schutzen	30 - 15	Rice	36	0 Oz	.	PBB	N N	Pb - Sn	321	LLC	14.3	210m	Chro.
Crosby, Billy	UnP			30	Remington	Krieger	1 deg.	Leupold	25 Lb.	LBT	150	BP	Lino-type	304	LBT	imr 8208	Rem	2300
Rock Hill, SC	.			BR	XP 100	22 - 13	Kelbly	35	10 Oz	Custom	GsChk	N Y	.	310	Blue	30.0	7 1/2	Est.
Higgins, William	PRO			308	Savage	Savage	1 deg.	Weaver	11 Lb.	LBT	206	BP	Lino-type	305	LBT	AA LT32	Fed	1925
Indian Trail, NC	.			Win	12	26 - 10	Savage	36	10 Oz	311-220	GsChk	N N	.	311	Blue	27.5	210m	Est.
Jackson, Rick	PRO			308	Savage	Savage	3/4 deg.	Weaver	11 Lb.	LBT	185	BP	Lino-type	304	LBT	imr 4064	Fed	1800
Lancaster, SC	.			Win	12BVSS	26 - 12	Savage	36	10 Oz	.	GsChk	N Y	.	310	Blue	29.2	210m	Est.
Lineberger, Robbie	UnP			30	Remington	Lilja	1 deg.	Sightron	22 Lb.	LBT	180	BP	Lino-type	291	LBT	AA LT32	Rem	2291
Rock Hill, SC	.			BR	XP 100	20 - 13	McMillan	10 X 50	8 Oz	190SP	GsChk	N N	.	310	Blue	27.9	7 1/2	Chro.
Lyle, Mac	UnR			30	Hall	Lilja	None	Sightron	14 Lb.	.	184	BP	Lino-type	.	.	Varget	Fed	.
Rock Hill, SC	.			BR	M	26 - 13	.	10 X 50	. Oz	.	GsChk	N Y	.	.	.	30.0	205m	.
Neelands, Spencer	UnR			30	Hall	Lilja	1 deg.	Nightforce	22 Lb.	LBT	190	BP	Wheel	304	LBT	Varget	Fed	2100
Sharon, SC	.			BR	B	22 - 13	Lee Six	12 x 42	. Oz	.	GsChk	N Y	Weights	310	Blue	30.0	205m	Est.
Silver, Ray	UnR			30	Hart	Lilja	None	Nightforce	28 Lb.	LBT	190	BP	Lino-type	.	LBT	Varget	Rem	2000
Rock Hill, SC	.			BR	#4	24 - 13	BrownPrc	12 x 42	9 Oz	.	GsChk	N Y	.	309	Blue	30.0	7 1/2	Est.
Stallings, Bill	UnP			30	Remington	Krieger	None	Leupold	22 Lb.	LBT	180	BP	Lino-type	304	LBT	Varget	Fed	2200
Chester, SC	BrchS			BR	XP 100	17 - 13	Kelbly	36	4 Oz	Custom	GsChk	N Y	.	310	Blue	30.0	205m	Est.
Stora, Ray	PBB			32 - 20	CPA	Bartlein	CPA	Nightforce	18 Lb.	CPA	208	L	30 - 1	.	.	AA 4100	Fed	1500
Matthews, NC	BrchS			CPA	BR	26 - 14	CPA	15 X 55	8 Oz	Darr	PBB	N N	Pb - Sn	.	.	12.8	210m	Est.

OAKDALE GUN CLUB --- LAKE ELMO, MN

Match Director: Tom Acheson

TECH DATA & SCORES

June 6, 2016

Temperature: 64°F

Skies: Overcast

Winds: NNW 11mph, Gust 32 mph

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	100	100	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		Yard	Yard																Shot	Shot	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	Grp. Agg.	Grp. Agg.	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Alloy	Base Dia.	Charge (gr)	No.	Est. Chro.		
Rockwell, C. V. Minneapolis, MN	LRH	1.347	1.859	308 Win	Remington XP 100	Remington 14 -- 12	None Remington	Leupold 36	. Lb. . Oz	RCBS 165 Sil	172 GsChk	L N N	Wheel Weights	300 310	Carnaub Red	imr 4756 11.0	Win LR	1250 Est.
Acheson, Tom Maplewood, MN	LRH	1.393	1.332	30 Silhouette	Remington XP 100	A & B 12 -- 10	1 1/2 deg. McMillan	36 Weaver	7 Lb. 0 Oz	LBT 312-185	173 GsChk	L N Y	Lino 1 Mono 1	311	Gray's # 24	N 135 23.0	Rem 7 1/2	1900 Est.
Peabody, Joel St Paul, MN	PRO	1.105	1.284	308 Win	Remington 700	Remington	None Remington	Redfield 20	10 Lb. . Oz	.	170 GsChk	.	.	.	.	.	.	.
Scearcy, Jim Minnetonka, MN	PRO	1.999	2.910	308 Win	CZ 550	CZ 26 -- 12	None CZ	Sightron 24	11 Lb. 2 Oz	NOE 311299	200 GsChk	L N N	Lino 1 WW 1	301 311	Whit Lbl 2500+	4759 18.5	Rem 2 1/2	1600 Est.
Studt, Steve Edina, MN	PRO	2.285	2.046	308 Win	Remington 700	Remington	None Remington	Leupold 12	9 Lb. 5 Oz	.	200 GsChk	BP N N	.	.	.	A 2400 16.0	Fed LR	1600 Est.
Barber, Loren Lake Elmo, MN	HVY	0.753	0.861	30 BR	Kelbly Panda	Broughton 24 -- 12	1 deg. Larson	Leupold 40	13 Lb. 1 Oz	Accurate 310235H	217 GsChk	L N N	Lino-type	301 3095	Blue Angel	N 135 26.5	Rem 7 1/2	1800 Chro.
Kaufenberg, John White Bear Lk, MN	HNT	0.683	1.486	308 Win	Remington 700	Remington 20 -- 12	None Remington	Sightron 24	9 Lb. 7 Oz	LBT Spitzer	190 GsChk	BP N Y	Lino + WW	.	LBT Blue	imr 4756 15.0	Fed 210m	1550 Chro.
Olson, Robert Chaska, MN	HNT	2.524	3.171	30 - 06 Win	Winchester 70	Winchester 22 -- 10	None Winchester	Tasco 4 x 12	8 Lb. 13 Oz	Lyman 311299	205 GsChk	BP N N	92-6-2 302	310 3115	LBT Blue	imr 4227 16.5	Win LR	.
MILITARY TECH DATA & SCORES																		
Beech, Russ Ramsey, MN	MMI	2.478	2.587	30 - 06 Springfield	Springfield 1903	Springfield 24 -- 10	None Springfield	.	8 Lb. 9 Oz	RCBS 165 Sil	172 GsChk	BP N N	BHN 15	301 310	LBT Soft	Rel # 7 18.0	S&B LR	1450 Est.

CHARLOTTE RIFLE & PISTOL CLUB, INC. --- CHARLOTTE, NC

Match Director: H. L. Yarborough

TECH DATA & SCORES

June 4, 2016

Temperature:

Skies:

Winds:

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	Scores		Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	200 Yd. Score	Aggregate Score	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Alloy	Base Dia.	Charge (gr)	No.	Est. Chro.		
Higgins, William Indian Trail, NC	PRO	196 6 x 189 1 x	385 7 x	308 Win	Savage 12	Savage 26 -- 10	1 deg. Savage	Weaver 36	11 Lb. 10 Oz	LBT 311-220	206 GsChk	BP N N	Lino-type	305 311	LBT Blue	AA LT32 27.5	Fed 210m	2000 Est.
Jackson, Rick Lancaster, SC	PRO	192 1 x 188 1 x	380 2 x	308 Win	Savage 12BVSS	Savage 26 -- 12	3/4 deg. Savage	Weaver 36	11 Lb. 10 Oz	LBT	185 GsChk	BP N Y	Lino-type	304 310	LBT Blue	imr 4064 29.2	Fed 210m	1800 Est.
Silver, Ray Rock Hill, SC	UnR	200 5 x 190 1 x	390 6 x	30 BR	Hart #4	Lilja 24 -- 13	None BrownPrc	Nightforce 12 x 42	28 Lb. 9 Oz	LBT	190 GsChk	BP N Y	Lino-type	309 309	LBT Blue	Varget 30.0	Rem 7 1/2	2000 Est.
Neelands, Spencer Sharon, SC	UnR	195 5 x 187 2 x	382 7 x	30 BR	Hall B	Lilja 22 -- 13	1 deg. Lee Six	Nightforce 12 x 42	22 Lb. . Oz	LBT	190 GsChk	BP N Y	Wheel Weights	304 310	LBT Blue	Varget 30.0	Fed 205m	2100 Est.
Lyle, Mac Rock Hill, SC	UnR	195 2 x 186 0 x	381 2 x	30 BR	Hall M	Lilja 26 -- 13	None	Sightron 10 X 50	14 Lb. . Oz	.	184 GsChk	BP N Y	Lino-type	.	.	Varget 30.0	Fed 205m	.
Stora, Ray Matthews, NC	UnR	156 0 x 169 0 x	325 0 x	308 Win	Winchester 70	Madesha 26 -- 13	None Winchester	Unertl 36	18 Lb. . Oz	NOE 312299	217 GsChk	BP N Y	Lino-type	302 311	LBT Blue	Varget 28.5	Fed 210m	1900 Est.
Yarborough, H.L. Rock Hill, SC	UnP	197 3 x 195 0 x	392 3 x	30 BR	Defiance Rebel	Lilja 22 -- 13	1 deg. Lee Six	Sightron 50	20 Lb. . Oz	LBT Spitzer	185 GsChk	BP N Y	Lino-type	304 310	LBT Blue	Varget 30.0	Fed 205m	2100 Chro.
Stallings, Bill Chester, SC	UnP	194 1 x 191 0 x	385 1 x	30 BR	Remington XP 100	Krieger 17 -- 13	None Kelbly	Leupold 36	22 Lb. 4 Oz	LBT Custom	180 GsChk	BP N Y	Lino-type	304 310	LBT Blue	Varget 30.0	Fed 205m	2200 Est.
Flinchum, Dale Statesville, NC	HNT	172 0 x 136 0 x	308 0 x	243 Win	Winchester 70	Winchester 24 -- 10	None Winchester	Sightron 36	9 Lb. 8 Oz	RCBS RN	98 GsChk	L N N	20 - 1 Pb - Sn	237 244	Alox	imr 3031 18.0	Win LRP	.

CHARLOTTE RIFLE & PISTOL CLUB, INC. --- CHARLOTTE, NC

Match Director: H. L. Yarborough

TECH DATA & SCORES

June 1, 2016

Temperature: Skies: Winds: Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	Scores		Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																Home Town	Breach Seat PBB Only	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Stora, Ray	PBB	197	2 x	32 - 20	CPA	Bartlein	CPA	Nightforce	18 Lb.	CPA	208	L	30 - 1	.	.	AA 4100	Fed	1500
Mathews, NC	BrchS	188	2 x	CPA	BR	26 -- 14	CPA	15 X 55	8 Oz	Darr	PBB	N N	Pb - Sn	.	.	12.8	210m	Est.
Perrotta, Rich	PBB	194	0 x	32 - 40	CPA	Badger	None	Zeis	16 Lb.	Darr	206	BP	24 - 1	319	Schutzer	imr 4227	Fed	1450
Mathews, NC	BrchS	180	0 x	CPA	44 1/2	30 -- 14	CPA	35	1 Oz	.	PBB	N N	Pb - Sn	321	.	14.6	210	Chro.
Bozarth, Harry	PBB	164	1 x	32 - 20	CPA	Douglas	None	Weaver	16 Lb.	Hoch	208	BP	24 - 1	316	SPG	4227	Fed	1450
Lancaster, SC	BrchS	153	0 x	CPA	44 1/2	28 -- 14	CPA	36	0 Oz	Darr	PBB	N N	Pb - Sn	322	LLC	14.2	205m	Est.
Bedi, Charles	PRO	180	0 x	308	Remington	Remington	1 deg.	Weaver	10 Lb.	RCBS	183	BP	Lino-	303	LBT	imr8208	Fed	1900
Rock Hill, SC	.	177	0 x	Win	700 SPS	26 -- 12	H-S Prec.	36	6 Oz	180 SP	GsChk	N N	type	311	Blue	28.5	210m	Est.
Higgins, William	PRO	176	0 x	308	Savage	Savage	1 deg.	Weaver	11 Lb.	LBT	206	BP	Lino-	305	LBT	AA LT32	Fed	1980
Indian Trail, NC	.	175	0 x	Win	12	26 -- 10	Savage	36	10 Oz	311-220	GsChk	N N	type	311	Blue	27.8	210m	Est.
Lyle, Mac	UnR	164	0 x	30	Hall	Lilja	None	Sightron	14 Lb.	.	184	BP	Lino-	.	.	Varget	Fed	.
Rock Hill, SC	.	DNF	DNF	BR	M	26 -- 13	.	.	.	.	GsChk	N Y	type	.	.	30.0	205m	.
Yarborough, H.L.	UnP	200	5 x	30	Defiance	Lilja	1 deg.	Sightron	20 Lb.	LBT	185	BP	Lino-	304	LBT	Varget	Fed	2100
Rock Hill, SC	.	194	3 x	BR	Rebel	22 -- 13	Lee Six	50	. Oz	Spitzer	GsChk	N Y	type	310	Blue	30.0	205m	Chro.

BALD EAGLE SPORTSMAN'S ASSOCIATION --- HUGO, MN

Match Director: John Kaufenberg

TECH DATA & SCORES

June 16, 2016

Temperature: Skies: Winds: Range Faces: East

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS			
Competitor	Class	Scores		100 Yard Shot Grp. Agg.	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Home Town																	Breach Seat PBB Only	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Palecek, Dave	PBB	196	4 x	1.206	32 - 20	CPA	Krieger	Schutzen	Sightron	16 Lb.	Schauf	218	BP	25 - 1	318	SPG	AA # 9	Fed	1400
White Bear Lk, MN	BrchS	.	.	.	CPA	44 1/2	27 -- 14	CPA	10 x 50	1 Oz	322001	PBB	N N	Pb - Sn	322	.	9.2	205m	Est.
Palecek, Dave	PBB	188	3 x	1.488	32 - 20	CPA	Krieger	Schutzen	Sightron	16 Lb.	Schauf	218	BP	25 - 1	318	SPG	AA # 9	Fed	1400
White Bear Lk, MN	BrchS	.	.	.	CPA	44 1/2	27 -- 14	CPA	10 x 50	1 Oz	322001	PBB	N N	Pb - Sn	322	.	9.2	205m	Est.
Barber, Loren	PBB	DNF	DNF	3.804	45 - 70	Uberti	Uberti	none	Leupold	10 Lb.	RCBS	315	L	20 - 1	.	RCBS	imr	Win	1300
Lake Elmo, MN	.	.	.	.	Govt	1885 HW	280-018	Uberti	3 x 10	. Oz	.	PBB	N N	Pb - Sn	.	.	40.0	LR	Est.
Acheson, Tom	LRH	188	3 x	2.571	30	Remington	A & B	1 1/2 deg.	Weaver	7 Lb.	LBT	173	L	Lino 1	Taper	Gray's	N 133	Rem	1948
Maplewood, MN	.	.	.	.	Silhouette	XP 100	12 -- 10	McMillan	36	0 Oz	312-185	GsChk	N Y	Mono 1	311	# 24	23.0	7 1/2	Est.
Rockwell, C. V.	LRH	162	2 x	2.027	308	Remington	Remington	None	Leupold	. Lb.	RCBS	172	L	Wheel	300	Red	imr 4756	Win	1250
Minneapolis, MN	.	.	.	.	Win	XP 100	14 -- 12	Remington	36	. Oz	165 Sil	GsChk	N N	Weights	310	Carnuba	11.0	LR	Est.
Scearcy, Jim	PRO	186	2 x	2.493	308	CZ	CZ	None	Sightron	11 Lb.	RCBS	186	L	92-2-6	302	Wht Lbl	A2400	Win	1500
Minnetonka, MN	.	.	.	.	Win	550	26 -- 12	CZ	24	2 Oz	180 SP	GsChk	N N	.	311	2500+	15.8	LR	Est.
Harrison, Jack	PRO	169	0 x	1.859	308	Remington	Remington	None	Leupold	9 Lb.	NOE	202	BP	92-2-6	301	LS Stuff	imr4756	Win	1700
Chetek, WI	.	.	.	.	Win	700 LTR	20 -- 12	Remington	8.5 x 25	6 Oz	311299	GsChk	N N	.	3105	Red	15.3	LR	Est.
Scearcy, Jim	PRO	166	0 x	2.297	308	CZ	CZ	None	Sightron	11 Lb.	NOE	197	L	92-2-6	301	Wht Lbl	imr 4759	CCI	1650
Minnetonka, MN	.	.	.	.	Win	550	26 -- 12	CZ	24	2 Oz	311299	GsChk	N N	.	311	2500+	18.5	200	Est.
Kaufenberg, John	HNT	195	2 x	1.215	308	Remington	Remington	None	Sightron	9 Lb.	LBT	190	BP	Lino +	.	LBT	imr 4756	Fed	1550
White Bear Lk, MN	.	.	.	.	Win	700	20 -- 12	Remington	24	7 Oz	Spitzer	GsChk	N Y	WW	.	Blue	15.0	210m	Chro.
Kaufenberg, John	HNT	184	1 x	1.114	308	Remington	Remington	None	Sightron	9 Lb.	LBT	190	BP	Lino +	.	LBT	imr 4756	Fed	1550
White Bear Lk, MN	.	.	.	.	Win	700	20 -- 12	Remington	24	7 Oz	Spitzer	GsChk	N Y	WW	.	Blue	15.0	210m	Chro.
Fredrickson, Lloyd	HNT	178	1 x	2.397	308	Savage	Savage	None	ortex Vipe	. Lb.	NOE	188	BP	92-2-6	301	LBT	imr 4756	Fed	1320
Cameron, WI	.	.	.	.	Win	11	21 -- 10	Savage	6.5 x 20	. Oz	311334	GsChk	N N	.	309	Soft Blue	15.1	210m	Chro.
Hove, Gunner	HNT	171	1 x	2.035	308	Remington	Remington	None	Leupold	. Lb.	RCBS	172	.	Wheel	300	Carnuba	imr4756	WW	1250
Minneapolis, MN	.	.	.	.	Win	700	26 -- 10	Remington	8.5 x 25	. Oz	165 Sil	GsChk	N N	Weights	310	Red	11.0	LR	Est.
Olson, Robert	HNT	144	1 x	3.144	30 - 06	Winchester	Winchester	None	Tasco	8 Lb.	Lyman	205	BP	92-6-2	302	Rooster	imr 4227	Win	.
Chaska, MN	.	.	.	.	Win	70	22 -- 10	Winchester	4 x 12	13 Oz	311299	GsChk	N N	.	3095	Red	16.5	LR	.

OAKDALE GUN CLUB --- LAKE ELMO, MN

Match Director: Tom Acheson

TECH DATA & SCORES

April 25, 2016

Temperature: 52°F

Skies: Overcast

Winds: NE 3-5 mph 60% humidity

Range Faces: North

PERSONAL DATA					EQUIPMENT						BULLETS						LOADS			
Competitor	Class	Scores			Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.	
		100 Yard	100 Yd. Score	100 Shot Grp. Agg.																Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Palecek, Dave White Bear Lk, MN	PBB BrchS	185	1	x	0.974	32 - 20 CPA	CPA	Krieger 27 -- 14	Schutzen CPA	Sightron 10 x 50	16 Lb. 1 Oz	Hoch Darr	200 PBB	BP N N	25 - 1 Pb - Sn	318 322	NRA Alox	AA # 9 10.0	Fed 205m	1350 Est.
Acheson, Tom Maplewood, MN	PRO	192	2	x	1.083	308 Win	Savage 12 LPV	Savage 24 -- 10	None Savage	Weaver 36	11 Lb. 12 Oz	LBT 312-185	L GsChk	Lino 1 Mono 1	.	Gray's # 24	N 135 27.0	CCI 250	1850 Est.	
Harrison, Jack Chetek, WI	PRO	176	0	x	2.535	308 Win	Remington 700 LTR	Remington 20 -- 12	None Remington	Leupold 8.5 x 25	9 Lb. 6 Oz	NOE 165 FN	BP GsChk	92-2-6 N N	300 3095	Lstuff 2700	imr 4759 21.5	Win LR	1700 Est.	
Scearcy, Jim Minnetonka, MN	HVY	188	2	x	1.539	300 BLK	Savage 11	Shilen 22 -- 10	None Boyd's	Leupold 24	8 Lb. 6 Oz	.	205 GsChk	N N N	Lyman # 2	301 310	Wht Lbl 2500+	4227 14.5	Rem .	1600 Chro.
Kaufenberg, John White Bear Lk, MN	HNT	192	1	x	1.211	308 Win	Remington 700	Remington 20 -- 12	None Remington	Sightron 24	9 Lb. 7 Oz	LBT Spitzer	BP GsChk	Lino + N Y	.	LBT Blue	imr 4756 15.0	Fed 210m	1550 Chro.	
Fredrickson, Lloyd Cameron, WI	HNT	179	0	x	1.482	308 Win	Savage 11	Savage 21 -- 10	None Savage	Target 6 x 24	8 Lb. 12 Oz	NOE 311334	BP GsChk	92-2-6 N N	301 309	LBT Soft Blue	imr 4756 15.1	Fed 210m	1320 Chro.	
Olson, Robert Chaska, MN	HNT	150	1	x	1.988	30 - 06 Win	Vinchester 70	Winchester 22 -- 10	None Winchester	Tasco 4 x 12	8 Lb. 13 Oz	Lyman 311299	BP GsChk	92-6-2 N N	310 302	LBT Blue	imr 4227 20.0	Win LR	. .	

MILITARY TECH DATA & SCORES

Rygwalski, Mike Maplewood, MN	MMS	188	4	x	3.599	30 - 06 Sprgfield	Remington 03 - A3	Remington 24 -- 10	None Issue	Leupold 6	9 Lb. 0 Oz	NEI .	193 GsChk	BP N N	92-6-2 .	Taper 3115	LBT Blue	imr 4759 20.0	Rem LR	1600 Est.
Barrett, Mike Forest Lake, MN	MMS	140	0	x	5.459	30 - 40 Krag	Sprgfield 1898	Sprgfield 24 -- 10	None Issue	.	7 Lb. . Oz	.	205 PBB	L N Y	30 - 1 Pb - Sn	305 310	.	imr 3031 16.3	Win LP	1200 Chro.

ISAAC WALTON LEAGUE of AMERICA --- LEETOWN, WV

Match Director: Scott Lowther

TECH DATA & SCORES

Julian "Tweed" Cottrell Shoot - May 5, 2016

Temperature:

Skies:

Winds:

Range Faces: West

PERSONAL DATA					EQUIPMENT						BULLETS						LOADS		
Competitor	Class	100	100	100	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		Yard	Yard	Yard																Shot Grp. Agg.	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Palik, A. J. Gainesville, VA	PBB BrchS	0.500	DNF	196	0x	32 - 40 CPA	CPA	Shilen 28 -- 14	Taper CPA	Mitchell 32	14 Lb. 0 Oz	Hoch 322215	L PBB	20 - 1 N N	.	Alox .	4227 14.4	Fed 150	1450 Est.
Young, Dick Berkeley Spring, WV	PRO	1.091	1.211	192	2x	308 Win	Savage 12BVSS	Savage 26 -- 10	None Savage	Weaver 36	11 Lb. 9 Oz	Hoch Custom	BP GsChk	Lino- type	Taper 310	LBT Blue	Varget 30.0	Win LR	1900 Est.
Lowther, Scott Harpers Ferry, WV	PRO	0.790	1.415	188	4x	308 Win	Savage 12	Savage 26 -- 10	None Savage	Weaver 36	11 Lb. 15 Oz	LBT 311200	BP GsChk	Lymon #2	300 310	BAC WhtLbl	imr8208 26.7	Fed 205m	1750 Chro.
Reyes, Rudy Leesburg, VA	PRO	1.421	1.505	183	2x	308 Win	Ruger 77 V	Ruger 26 -- 12	None Ruger	Weaver 36	10 Lb. 9 Oz	Hoch C 6987	L GsChk	Lino 4 N N	310 WW 1	LBT Blue	N 133 27.1	Fed 210m	1700 Est.
Federline, Dave Knoxville, MD	PRO	1.071	1.686	172	0x	308 Win	Savage 12	Savage 26 -- 10	1 1/2 deg. Savage	Weaver 36	11 Lb. 6 Oz	Lyman 311679	BP GsChk	WW 8 Lino 2	301 310	Black & Blue	imr 4895 28.5	Win LR	1650 Est.
Bottiger, Jerry Mifflinburg, PA	PRO	0.840	DNF	DNF		308 Win	Savage 12	Savage 26 -- 10	None Savage	Weaver 36	11 Lb. 8 Oz	Accurate 311230e	L GsChk	Lino- type	301 310	Gray's # 24	H 4895 28.5	Fed 210m	1725 Chro.
Beveridge, Roger Shepherdstown, WV	HVY	1.400	1.406	193	2x	308 Win	Savage 12	Savage 26 -- 12	None Savage	Weaver 36	14 Lb. 0 Oz	RCBS 200 Sil	L GsChk	Wheel N N	309 311	Orange Magic	N 133 28.0	Win LR	. .
Alt, Ray Inwood, WV	HVY	1.001	1.187	190	3x	308 Win	Remington 700	Remington 26 -- 10	None Remington	Leupold 36	10 Lb. 7 Oz	Accurate 30220F	BP GsChk	Lino- type	302 310	.	Varget 27.0	CCI 200	1650 Chro.

ATGLEN SPORTSMEN'S CLUB, INC. --- ATGLEN, PA

Match Director: Kurt Menkes

TECH DATA & SCORES

June 25, 2016

Temperature: 75 - 85

Skies: Sunny

Winds: ESE @ 3 - 15 mph

Range Faces: East

PERSONAL DATA					EQUIPMENT					BULLETS					LOADS				
Competitor	Class	Scores			Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	200 Yd. Score	Grand Aggregate Score																Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	200 Yd. Score	200 Yd. Score	200 Yd. Score															
Miller, Charlie Lincoln University, PA	PBB BrchS	186 3 x 185 0 x	371 3 x	371 3 x	38 - 55 Win	CPA 44 1/2	Douglas 30 -- 15	Taper	Leupold 8.5 x 25	15 Lb. 0 Oz	Hoch 376 310	325 PBB	L N N	20 - 1 Pb - Sn	372 377	Home Made	imr 4227 17.0	Fed 210	1250 Est.
Granauro, John Wildwood, NJ	PBB BrchS	189 1 x 173 0 x	362 1 x	362 1 x	32 - 20 CPA	CPA 44 1/2	Douglas 28 -- 14	None CPA BR	Weaver 36	14 Lb. 8 Oz	Burton/Dar Taper	207 PBB	N N N	20 - 1 Pb - Sn	318 322	Home Made	N 110 12.0	Rem SRM	1400 Est.
Parker, Ed Christiana, PA	PBB BrchS	196 2 x 163 0 x	359 2 x	359 2 x	32 - 20 CPA	CPA 44 1/2	Ron Smith 28 -- 14	1 deg. CPA	Leupold 8.5 x 25	. Lb. 0 Oz	D. Mos Spitzer	202 PBB	BP N Y	20 - 1 Pb - Sn	319 323	Schutzer	N 110 12.0	Fed 205	1400 Est.
Menkes, Kurt Kennett Square, PA	PBB BrchS	192 2 x 161 0 x	353 2 x	353 2 x	32 - 40 Win	CPA 44 1/2	Badger 28 -- 14	Taper Self/CPA	Weaver 36	14 Lb. 6 Oz	Saeco 732	205 PBB	BP N N	20 - 1 Pb - Sn	317 322	BzWax + Tallow	imr 4759 22.5	Win LRM	1100 Est.
Parks, William Newmanstown, PA	HVY	191 1 x 178 0 x	369 1 x	369 1 x	308 Win	Savage 12	Savage 30 -- 12	None Savage	Weaver 36	. Lb. 0 Oz	Saeco GsChk	200 N N	L N N	WW 1 Lead 1	301 309	Lee Alox	imr 4611 31.0	CCI 200	1850 Est.
Spencer, Bob Westtown, PA	HVY	136 0 x DNF	DNF	DNF	308 Win	Ruger Precision	Ruger 20 -- 10	None Ruger	Sightron 32	13 Lb. 0 Oz	Lyman 309180	165 GsChk	L N N	Lino type	309	Lyman	imr 4198 21.0	Fed LR	1600 Est.

EMERALD EMPIRE GUN CLUB --- SPRINGFIELD, OR

Match Director: Rick Parra

TECH DATA & SCORES

June 11, 2016

Temperature:

Skies:

Winds:

Range Faces: North

PERSONAL DATA					EQUIPMENT					BULLETS					LOADS				
Competitor	Class	200 Yard	200 Yard	200 Yard	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		5 Shot	10 Shot	Score																Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	Grp. Agg.	Grp. Agg.	Grp. Agg.															
Zulyevic, Richard Harrisburg, OR	PRO	3.935	6.238	DNF	308 Win	Ruger M 77	Ruger 25 -- 10	None Ruger	Tasco 36	11 Lb. 10 Oz	Applegate 314004	205 GsChk	BP Y N	Lino-type	301 313	Blue Angel	imr 4895 26.0	Win LR	1800 Est.
Uhl, Kent Oregon City, OR	HVY	1.598	2.046	193 0x	30 BR	BAT S	Lilja 23 -- 13	None McMillan	10 X 50 Sightron	12 Lb. 6 Oz	Accurate 310230	217 GsChk	BP Y N	Lino-type	301 309	Star	N 135 27.2	Win LR	1980 Est.
Allen, Chuck Roseburg, OR	HVY	0.827	2.003	190 0x	30 BR Short	Nesika J	Hart 25 -- 11	None Borden	Leupold 45	12 Lb. 2 Oz	Eagan MX4ARD	215 GsChk	BP N Y	Lino-type	301 310	Red Angel	N 135 28.0	Win SR	1980 Chro.
Edwards, Virgil Sandy, OR	HVY	1.610	1.783	184 2x	30 Lazer	Remington 700	Hart 26 -- 10	None McMillan	Leupold 36	12 Lb. 2 Oz	Accurate 310230E	225 GsChk	L N N	Lino-type	302 311	Blue Angel	AA 2495 27.0	Rem 7 1/2	1900 Est.
Miller, Jesse Springfield, OR	HVY	2.444	3.061	178 0x	30 BR	Stolle Panda	Shilen 26 -- 12	None McMillan	Sightron 10 x 50	13 Lb. 0 Oz	Eagan ARD	218 GsChk	BP N Y	Lino-type	300 3095	Blue Angel	N 135 27.7	Fed 205m	1800 Est.
Harris, Mel Roseburg, OR	UnP	0.846	1.597	198 0x	30 Harris	Remington XP 100	Broughton 21 -- 11.5	None Harris	Sightron 10 x 50	24 Lb. 0 Oz	Eagan MX4ARD	212 GsChk	BP N N	Lino-type	302 309	Star	2230 S 25.2	Win SR	1890 Chro.

MILITARY TECH DATA & SCORES

Leishman, Jeff Springfield, OR	MMI	3.948	6.582	174 3x	30 - 06 Sprgfield	Rock Island 1903	Springfield	None	Modified Iron	. Lb. 0 Oz	Lyman 311299	200 GsChk	L N N	Lino type	311	LBT Blue	imr 4227 21.0	CCI BR	1650 Est.
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SPOKANE RIFLE CLUB --- SPOKANE, WA

Match Director: Don Barron

TECH DATA & SCORES

June 11, 2016

Temperature: 45 - 50

Skies: Cloudy

Winds: Gusting to 25 mph

Range Faces: North

PERSONAL DATA					EQUIPMENT					BULLETS					LOADS				
Competitor	Class	Scores			Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd	200 Yd	200 Yd																100 Yd Shot Grp. Agg.	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	Score	Score	Score															
Berube, Pete Hamilton, MT	PBB BrchS	195 2 x	0.782	0.782	32 Ideal	Sharps Borchardt	RKS 30 -- 11.5	None Self	Unertl 36	18 Lb. 0 Oz	B & D Tpr/Sp	223 PBB	L N N	30 - 1 Pb - Sn	322 322	Javalina	Lil Gun 13.2	Rem 7 1/2	1380 Chro.
Pinney, Bev Salmo, BC	PBB BrchS	193 3 x	1.766	1.766	32x30-30 Short	Musgrave Bolt SS	Ron Smith 27 -- Gain	None Self	Leupold 45	16 Lb. 8 Oz	P. Jones 32-40	230 PBB	BP N N	30 - 1 Pb - Sn	318 322	Chuckls	AA # 9 11.0	Win LR	1375 Chro.
Barron, Don Worley, ID	PRO	179 1 x	1.603	1.603	308 Win	Remington 700V	Remington 24 -- 12	None Remington	Leupold 45	10 Lb. 8 Oz	LBT 310195sp	185 GsChk	BP N N	Lino + WW&Tir	310 310	Red Menace	N 135 28.0	Fed 210m	1900 Chro.
Cavarasias, Ricardo Oroville, WA	HVY	190 3 x	1.331	1.331	30 BR	Gallagher # 3	Lilja 24 -- 12	Taper McMillan	Leupold 36	13 Lb. 6 Oz	Hoch	195 GsChk	L N N	Lino WW 1	300 309	Blue Angel	AA2495 25.5	Fed 205m	1850 Est.
Gallagher, Lloyd Oroville, WA	HVY	184 3 x	1.657	1.657	30 BR	Self # 3	Lilja 24 -- 12	Taper McMillan	Leupold 36	13 Lb. 6 Oz	Hoch	195 GsChk	L N N	Lino WW 1	300 309	Blue Angel	AA2495 25.5	Fed 205m	1850 Est.
Schueler, Ray Nine Mile Falls, WA	HNT	174 3 x	1.740	1.740	250 Savage	Savage 16	Savage 22 -- 10	None Savage	Tasco 36	8 Lb. 8 Oz	Cramer 55 A	106 GsChk	BP Y N	BHN 11	250 258	Lars WhtLbl	Rel # 7 15.0	Rem 9 1/2	1574 Chro.

MODESTO RIFLE CLUB --- MODESTO, CA

Match Director: Paul Ott

TECH DATA & SCORES

July 16, 2016

Temperature: 80

Skies: Clear

Winds: 5 mph

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS		
Competitor	Class	Scores		Cartridge Designation	Firearm Make	Barrel Mfg.	Throat- ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri- mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																Home Town	Breach Seat PBB Only	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Quadros, Norm Royal Oaks, CA	PBB BrchS	186 1 x 180 0 x	366 1 x	32 - 40 CPA	CPA Bench	Ron Smith 28 - Gain	None CPA	Weaver 36	18 Lb. 8 Oz	S. Brooks 230	228 PBB	L N N	30 - 1 Pb - Sn	.	Jerry's .	W 296 15.0	CCI BR 2	1500 Est.
Coover, Art Modesto, CA	PRO	181 1 x 186 0 x	367 1 x	308 Win	Remington 700	Remington 24 - 11	None Remington	Tasco 36	9 Lb. 10 Oz	Eagan MX4ARD	230 GsChk	L N N	Lino- type	300 310	Texaco Turax	imr 8208 27.2	Rem 9 1/2	2000 Chro.
Craig, Frank Soquel, CA	HVY	196 2 x 191 0 x	387 2 x	30 BRL	Panda SS	Hart 26 - 11	None Wood "T"	Leupold 36	13 Lb. 14 Oz	Accurate 309230	216 GsChk	L N N	Lino- type	300 310	Texaco Turax	imr 8208 28.0	Fed 205m	2050 Chro.
Ott, Paul Manteca, CA	HVY	189 0 x 39 0 x	228 0 x	7.5 mm x 55	Taner/Ham 98	Tanner 26 - 11	None Tanner	Unertl 24	14 Lb. 0 Oz	Lyman 311334	186 GsChk	BP N N	Lino- type	298 310	Texaco Turax	imr 4198 22.5	RWS 5620	1800 Est.

OAKDALE GUN CLUB --- LAKE ELMO, MN

Match Director: Tom Acheson

TECH DATA & SCORES

July 11, 2016

Temperature: 90°F

Skies: Partly Cloudy

Winds: 3-12 mph NE

Range Faces: North

PERSONAL DATA				EQUIPMENT						BULLETS						LOADS			
Competitor	Class	Scores		100 Yard Shot Grp. Agg.	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat- ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri- mer	Muzz Vel.
		100 Yard Score	Home Town																	Breach Seat PBB Only	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Rockwell, C. V. Minneapolis, MN	PBB No	172 0 x	2.902	38 - 55 Win	Vinchest 1885	Winchester 26 - 12	None Winchester	Leupold 36	10 Lb. 4 Oz	Ideal 375248	. PBB	L N N	Wheel Weights	357 379	Carnauba Red	Unique 10.0	Win LR	1250 Est.	
Acheson, Tom Maplewood, MN	PRO	192 2 x	1.135	308 Win	Savage 12 LPV	Savage 24 - 10	None Savage	Weaver 36	11 Lb. 12 Oz	LBT 312-185	173 GsChk	L N Y	Lino 1 Mono 1	311	Gray's # 24	Varget 27.5	CCI 250	1850 Est.	
Peabody, Joel St Paul, MN	PRO	184 2 x	1.368	308 Win	Remington 700	Remington .	None Remington	. .	10 Lb. 0 Oz	Red River .	170 GsChk	BP N N	. .	. .	. .	imr 4227 16.9	Fed LR	1600 Est.
Studt, Steve Edina, MN	PRO	179 2 x	2.278	308 Win	Remington 700	Remington .	None Remington	Leupold 12	9 Lb. 5 Oz	Red River .	170 GsChk	BP N N	. .	310 .	. .	imr 4227 16.9	. .	1600 Est.	
Scarcy, Jim Minnetonka, MN	PRO	175 1 x	1.876	308 Win	CZ 550	CZ 26 - 12	None CZ	Sightron 24	11 Lb. 2 Oz	NOE 312-160	165 GsChk	L N Y	92-6-2 .	304 312	. .	imr 4759 19.0	Win LR	1700 Est.	
Hove, Gunner Minneapolis, MN	PRO	149 1 x	2.465	308 Win	Remington 700	Remington 26 - 10	None Remington	Leupold 8.5 x 25	. .	RCBS 165 Sil	172 GsChk	N N	Wheel Weights	300 310	Carnauba Red	SR 4756 11.0	WW LR	1250 Est.	
Harrison, Jack Chetek, WI	PRO	141 0 x	3.895	308 Win	Remington 700 LTR	Remington 20 - 12	None Remington	Leupold 8.5 x 25	9 Lb. 6 Oz	NOE 312229	198 GsChk	BP N N	Lino type	300 3105	Lstuff 2700	imr 4759 26.2	Win LR	1720 Chro.	
Kaufenberg, John White Bear Lk, MN	HNT	187 2 x	1.018	308 Win	Remington 700	Remington 20 - 12	None Remington	Sightron 24	9 Lb. 7 Oz	LBT Spitzer	190 GsChk	BP N Y	Lino + WW	. .	LBT Blue	imr 4756 15.0	Fed 210m	1550 Chro.	
Fredrickson, Lloyd Cameron, WI	HNT	184 0 x	1.709	308 Win	Savage 11	Savage 21 - 10	None Savage	ortex Vipe 6.5 x 20	8 Lb. 12 Oz	NOE 311334	188 GsChk	BP N N	92-2-6 301	301 309	LBT Soft Blue	imr 4756 15.2	Fed 210m	1320 Chro.	
Barrett, Mike Forest Lake, MN	HNT	162 1 x	2.585	30 - 40 Krag	Sprgfield 1898	Sprgfield 24 - 10	None Issue	Nikon 14	9 Lb. 2 Oz	Lyman 311299	205 PBB	L N Y	30 - 1 Pb - Sn	305 310	. .	imr 3031 16.3	Win LP	1200 Chro.	
Olson, Robert Chaska, MN	HNT	158 1 x	2.698	30 - 06 Win	Vinchest 70	Winchester 22 - 10	None Winchester	Tasco 4 x 12	8 Lb. 13 Oz	Lyman 311299	205 GsChk	BP N N	92-6-2 302	310 3115	Rooster Red	imr 4227 20.2	Win LR	. .	
MILITARY TECH DATA & SCORES																			
Beech, Russ Ramsey, MN	MMI	188 3 x	2.753	30 - 06 Sprgfield	. 1903	Springfield 24 - 10	None Issue	. .	8 Lb. 9 Oz	RCBS 308-165 S	172 GsChk	BP N N	BHN 15	301 310	LBT Blue	Rel # 7 18.0	Win LRM	1450 Est.	
Rygwalski, Mike Maplewood, MN	MMI	184 3 x	2.547	7.5 mm x 55	Swiss K 31	Issue 24 - 10	None Issue	. .	9 Lb. 6 Oz	Saeco 315	175 GsChk	BP Y N	BHN 14 .	310 310	LBT Blue	2400 16.0	Rem LR	1550 Est.	
Emole, Dominic Cameron, WI	MMS	181 1 x	2.385	7.5 mm x 55	Swiss K 31	Issue 24 - 10	None Issue	Burriss 2 x 7	9 Lb. 6 Oz	NOE 311334	188 GsChk	BP N N	92-6-3 .	301 309	LBT Blue	imr 4756 15.1	Fed 210m	. .	

ROSEBURG ROD & GUN CLUB --- ROSEBURG, OR

Match Director: Mel Harris

TECH DATA & SCORES

July 2, 2016

Temperature:

Skies: Sunny w/Mirage

Winds: 6 - 18 mph

Range Faces: West

PERSONAL DATA				EQUIPMENT							BULLETS					LOADS			
Competitor	Class	Scores		200 Yd Shot Grp. Agg.	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	100 Yd. Score	Grand Aggregate Score																
Zulyevic, Richard Harrisburg, OR	PRO	93 0 x	5.666	308 Win	Ruger M 77	Ruger 25 -- 10	None	Tasco 36	11 Lb. 10 Oz.	Applegate 314004	205 GsChk	BP	Lino-type	301 313	Blue Angel	imr 4895 26.0	Win LR	1800 Est.	
Jenkins, Roy Oakland, OR	HVY	192 2 x	1.435	30 Harris	Stolle Teddy	Shilen 20 -- 11	None	Leupold 45	. Lb. . Oz.	Eagan mx4ARD	212 GsChk	BP	Lino-type	301 310	.	N 135 25.6	Win SR	1950 Est.	
Allen, Chuck Roseburg, OR	HVY	191 3 x	1.863	30 BR Short	Nesika J	Hart 25 -- 11	None	Leupold 45	12 Lb. 2 Oz.	Eagan MX4ARD	215 GsChk	BP	Lino-type	301 310	Red Angel	N 135 28.0	Win SR	1980 Chro.	
Uhl, Kent Oregon City, OR	HVY	189 0 x	2.374	30 BR	BAT S	Lilja 23 -- 13	None	Sightron 10 X 50	12 Lb. 6 Oz.	Accurate 310230	217 GsChk	BP	Lino-type	301 309	Star	N 135 27.2	Win LR	1980 Est.	
Parra, Rick Springfield, OR	HVY	188 1 x	2.222	30 BR	AMT SS 480	Hart 24 -- 12	None	Weaver 36	12 Lb. 0 Oz.	Eagan H-40	213 GsChk	L	Lino-type	301 310	Blue Angel	N 133 25.9	Rem 7 1/2	1860 Chro.	
Edwards, Virgil Sandy, OR	HVY	184 2 x	2.297	30 Lazer	Remington 700	Hart 26 -- 10	None	Leupold 36	12 Lb. 2 Oz.	Accurate 310230E	225 GsChk	L	Lino-type	302 311	Blue Angel	AA 2495 27.0	Rem 7 1/2	1900 Est.	
Harris, Mel Roseburg, OR	UnP	193 1 x	1.788	30 Harris	Remington XP 100	Broughton 21 -- 11.5	None	Sightron 10 x 50	24 Lb. . Oz.	Eagan MX4ARD	212 GsChk	BP	Lino-type	302 309	Star	2230 S 25.2	Win SR	1890 Chro.	

KENMORE SHOOTING RANGE --- BOTHELL, WA

Match Director: Roger Ulrich

TECH DATA & SCORES

June 25, 2016

Temperature: 58 - 66

Skies:

Winds: North @ 0 - 5 mph

Range Faces: North

PERSONAL DATA				EQUIPMENT							BULLETS					LOADS			
Competitor	Class	Scores		200 Yd Shot Grp. Agg.	Cartridge Designation	Firearm Make	Barrel Mfg.	Throat-ing	Scope Mfg.	Gross Weight of Gun Including Scope	Mould Mfg.	Bullet Wt. As Loaded (gr.)	Ladle or Bottom	Bullet Alloy	Nose Dia.	Bullet Lube	Powder	Pri-mer	Muzz Vel.
		100 Yd. Score	Grand Aggregate Score																	Firearm Model	Length -- Twist	Stock Mfg.	Power	Design No.	Gas Check	Heat Trt. & Bump	Base Dia.	Charge (gr)	No.	Est. Chro.
Home Town	Breach Seat PBB Only	100 Yd. Score	Grand Aggregate Score																
Rhoten, Ronald Woodinville, WA	PBB BrchS	197 4 x 195 2 x	392 6 x	32 Miller Short	Miller CF	Douglas 27 -- 14	None	Leupold 8.5 x 25	14 Lb. 1 Oz.	Schauf 322001	208 PBB	L	25 - 1 Pb - Sn	3165 3255	Javalina Schtzn	AA # 9 11.1	CCI BR 4	1400 Est.	
Schauf, John Tacoma, WA	PBB BrchS	199 6 x 192 1 x	391 7 x	32 - 20 CPA	Stevens 44 1/2	Shilen 28 -- 14	Taper CPA	Weaver 36	15 Lb. 6 Oz.	Schauf 322001	208 PBB	L	25 - 1 Pb - Sn	312 322	Home Made	H 108 10.5	Fed 205m	1350 Est.	
Stewart, John Seattle, WA	PBB BrchS	197 4 x 193 1 x	390 5 x	32 Miller Short	Miller DeHass	Krieger 26 -- 14	None	Leupold 36	14 Lb. 8 Oz.	P. Jones 32002	212 PBB	L	25 - 1 Weights	3225 3225	Alox .	AA # 9 10.8	CCI 400	1250 Est.	
Ulrich, Roger Woodinville, WA	PBB BrchS	199 7 x 190 3 x	389 10 x	32x30-30 Short	Weber Unlmt	Shilen 26 -- 14	None	Leupold 36	23 Lb. 6 Oz.	P. Jones Spitzer	215 PBB	L	25 - 1 Pb - Sn	319 322	Alox + BzWax	WC 820 11.6	Fed 210	1305 Chro.	
Hytt, Bud Granite Falls, WA	PBB BrchS	173 1 x 162 2 x	335 3 x	32 - 20 CPA	Shtlworth 44 1/2	Ron Smith 28 -- Gain	Taper J. Hawkins	Weaver 36	14 Lb. 14 Oz.	NOE 321417	214 PBB	BP	25 - 1 Pb - Sn	310 322	Home Made	AA # 9 9.6	Fed 205	1400 Est.	
McCaughan, Mike Bothell, WA	LRH	185 3 x 178 0 x	363 3 x	308 Win	M.O.A Max	Unknown 15 -- 13	1 1/2 deg. M.O.A	Leupold 8.5 x 25	. Lb. . Oz.	Brooks 230	218 GsChk	BP	Lino +	302 311	2500	Varget 27.5	.	.	
Bingham, Ronald Tacoma, WA	PRO	188 0 x 181 0 x	369 0 x	30 - 06 Sprgfield	Sprgfield 03 - A3	Sprgfield 24 -- 10	None	Bushnell Hunter	. Lb. 6 x 24	Schauf 308300	206 GsChk	L	WW 1 Lino 1	300 308	LBT Blue	A 2400 17.5	Win LR	1600 Est.	
Shellenberger, Doug Puyallup, WA	PRO	178 0 x 174 0 x	352 0 x	308 Win	Savage 12	Savage 26 -- 12	L Throat Savage	Weaver 36	12 Lb. 5 Oz.	Schauf 311299	209 GsChk	L	Lino 3 Scrap 1	301 3085	LBT Blue	W 296 18.5	Win LR	1575 Est.	
Tyskiewicz, Dennis Bothell, WA	HVY	191 2 x 170 0 x	361 2 x	30 PPC	Weber Unlmt	Shilen 27 -- 10	Custom McMillan	Leupold 36	. Lb. . Oz.	Euber	180 GsChk	L	Lino type	. LBT	Blue	N 133 27.0	Rem 7 1/2	2107 Chro.	

(continued from page 243-18)

to be lubed before sizing otherwise their bore riding nose would get crushed in the lube machine due to the lack of lube. Granted, this added an extra step but it was the only way I could see doing it if and when I was going to size the bullets. On the flip side, non-sized bullets can be lubed at any time after the gas check is installed.

One item that reared its ugly head was weather conditions. The old Winchester has a round gold bead front sight perfect for hunting in the woods but next to impossible in the clear bright drought conditions we were having in 2015, the year of these shooting tests. I even taped paper over the front sight forming a hood but that turned out to be of little value. This has never been a problem in the past because this area is known for having 80" of rain a year so normally I'm held up waiting for a dry day so my targets don't turn to mush

While shooting the first 3, three shot groups with the 210 gr. bullet, the day was bright and cloudless and sighting was difficult. I timed my second set of 3, three shot groups for a cloudy, overcast day and noticed the groups were definitely smaller than the previous shooting session. The first and second set of six groups, 24 gr. of Reloader 7 outperformed the 25 gr. IMR 4895 load, though not by much. This was when I decided to shoot one more set of 3, three shot groups on another cloudy, overcast day. When this took place, the 25 gr. of IMR 4895 outperformed the 24 gr. of Reloader 7 load. This second test is shown in Shooting Chart #2. After scratching my head for a while, I decided to combine all of the groups fired to see what the aggregate average was. In this case, the 24 gr. of Reloader 7 came out on top by less than 1/16th of an inch (2.306" versus 2.361").

As it turned out, I was very disappointed in the groups produced by the 1980's 39 gr. charge of IMR 4350 load combination and discontinued using that load.

One more test needed to be run. I wanted to shoot the 210 gr. bullets as cast or not sized to see if that would change the above results. This would also compare the 210 gr. bullet with

the two 200 gr. non sized bullets. During this test I didn't use IMR 3031 or IMR 4198 because they were consistently non contenders in all of the other tests. As you can see in Shooting Chart #1, the non-sized 210 gr. bullet and the 25 gr. charge of IMR 4895 outperformed all of the other loads except the last IMR 4895 loads in Shooting Chart #2.

It was very interesting to notice that in the case of the 210 gr. bullet, both Reloader 7 and IMR 4895 were alternately taking the lead from each other by less than 1/16th of an inch. This would indicate that either load could be used and get the same accuracy. I really wanted to narrow this down so I had to come up with another system to discriminate between the two loads. Since I had been shooting sets of 3, three shot groups at each target, I could measure the size of these sets or group clusters. I had 4 targets for both the Reloader 7 and IMR 4895 so I calculated the average size of each group cluster for each of the four targets. Reloader 7's average was 3 11/16" X 3 3/8" whereas IMR 4895's average was 3 3/16" X 2 5/16", clearly giving the edge to IMR 4895. Granted, this included two of the sized bullet loads and two of the non-sized bullet loads but all in all, IMR 4895 placed more 210 gr. bullet groups in a smaller cluster than Reloder 7.

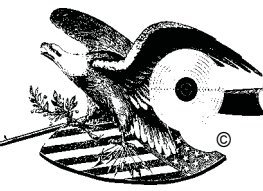
Heat treating (hardening) the bullets and reducing the velocity from 1750 ft/sec. (39 gr. of IMR 4350) to 1355 ft/sec. (25 gr. IMR 4895) solved the deteriorating accuracy problem that accompanied the 210 gr. bullet loads used in the 1980's. Leaving the bullets as cast rather than sizing them also helped tighten the groups. Even though 200 gr. bullets were tried, they didn't measure up to the accuracy of the 210 gr. bullet. So, by using the lessons learned from over 20 years of shooting cast bullets, I was able to improve this rifle's cast bullet performance. ©

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POSTAL MATCH NEWS

This issue of *The Fouling Shot* includes match results for June #6 (Season BR and 6A Pistol), June and July #7 (Season Military BR), May, June, and July #9 (Season Offhand), May and June #21 (Timed fire handgun) as well as June and July #22 BPCR.

By the time this is published, the season matches will have concluded for 2016. You still have time to enter a few of the late fall matches such as the ever challenging "running deer" offhand match. Break out those hunting rifles and handguns!

In preparation for the 2016 postal match guide printing, please send me an email either on the CBA website or at mrkastning@gmail.com if you would like to receive the postal guide in email rather than a printed copy. As printing the guide is the postal match's largest single expense, we would like to be able to more closely estimate the number of printed copies needed.

2016 has been a fun year for the postal matches. Some great targets have been sent in for scoring to say the least. It has been a pleasure to hear from several of you about various matches, general shooting, and discussion. Keep up the casting, loading, testing, and of course, shooting!

Michael



2016 POSTAL MATCH SCHEDULE

- #1 WINTER BENCHREST, group/score/ scope sights, due 1 March
- #2 WINTER OFFHAND, score, scope or iron sights, due 1 March
- #3 WINTER MILITARY BR, group, issue sights, due 1 April
- #4 SPRING ICEBREAKER BR (first-time entrants only), score, scope sights, \$4.00, due 1 May
- #5 SPRING WARM-UP BR, group & score, scope sights, due 1 May
- #6 SEASON BENCHREST, group/score, scope sights, due 1 May, June, July, August
- #6a SEASON PISTOL BR, group/score, scope or iron sights, due 1 May, June, July, August
- #7 SEASON MILITARY BR, group/score, sights**, due 1 May, June, July, August
- #8 MILITARY CARBINE BR, group/score, sights**, due 1 August,
- #9 SEASON OFFHAND, rifle/pistol, scope or iron sights, due 15 May, June, July, August
- #10 MILITARY BIG-BORE BR, group, issue iron sights, due 1 December
- #11 MILITARY OFFHAND, score, sights**, due 15 July
- #12 LITTLE-BORE BR, group, scope sights, due 15 August
- #13 SINGLE-SHOT, score off-hand and benchrest group / score: scope or iron sights, due 1 September
- #14 MID-BORE BR, group, scope sights, due 1 September
- #15 BIG-BORE BR, group, scope or iron sights, due 15 September
- #16 LEVER/PUMP/AUTO BR, group/score, scope or iron sights, due 15 October
- #17 DEER HUNTER, rifle/pistol, score, scope or iron sights, due 1 December, targets \$4.50
- #18 200-YARD COMBINED, group & score, scope sights, due 1 November, targets \$3.50
- #19 200-YARD MILITARY BR, score, sights**, \$4.00, due 1 October
- #20 ANTIQUE MILITARY BR, group, issue iron sights, \$4.00, due 15 November
- #21 TIMED FIRE HANDGUN, score, offhand, fixed sights, 50 feet, due 15 July

** Sights for these matches are: (1)Issue (2)Modified Iron (3)Modified Scope. Unless otherwise stated, each set of group targets costs \$4.00, score \$3.50. For full match details, ask for free copy of our Postal Match Guide.

PLEASE BE SURE TO SPECIFY GROUP OR SCORE AND SIGHTS USED WHEN ORDERING MAKE ALL CHECKS PAYABLE TO "CBA POSTAL MATCH" & MAIL TO:

Mike Kastning
Postal Match Director
PO Box 744
Elk Point SD 57025

Match #6A, SEASON PISTOL BR, 1 June 2016

Competitor home state	Score or Group Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make **** Model	Bbl mfg **** Length & twist	Stock mfr	Scope mfr **** Power	Total wgt rifle and scope lb/oz	Mould mfr **** Design no.	Wgt ready to load (gr.)	Alloy **** Heat treat **** Bmpd	Diam nose **** Diam base	Lube	Use ladl or btm pour	Powder **** Charge (gr)	Pri- mer **** No.	Muzz vel **** est/ chro

Hunter Scope/Group:

John Jeffries 1.197 0.223 T/C T/C Bushnell 4/2 Lyman 58 Lino 0.218 Emmert ladl H4198 Fed 1600
 Washington \$4.50 Rem Contender 10 12 10x 225646 N N 0.225 10.5 205 est
 Other Scores: David Eklof, 1.985"

LRH Scope/Group:

John Jeffries 1.748" 300 Remington 6/15 Lee 150 Lino 0.302 Emmert ladl Unique Fed 1500
 Washington Cert. Savage XP100 14 10 309-150 N N 0.310 10.0 210 est
 Other Scores: None

Break Open/Group

Ray Alt 1.720" 7-30 T/C T/C Bushnell 5/4 RCBS 153 4:1 0.278 LBT ladl Varget Win 1650
 West Virginia \$5.00 Waters Contender 14 9 9x 145-SIL N N 0.285 Blue 24 WLR est
 John Jeffries 1.922 221 TC MGM T/C BSA 6/15 NOE 75 Lino 0.222 Emmert ladl RL-7 Rem 1459
 Washington \$4.50 Fireball Contender 8 15 36x 227-80 N N 0.225 10 6.5 chro
 Other Scores: Dave Federline, 2.121"; DNF-1

Hunter Iron/Score:

David Edwards 30-0x 45ACP Colt Lee Lino 200 Lino Lee btm WST Fed 850
 North Carolina Cert. GoldCup 5 16.0 452-200SWC N N 0.451 Alox 4.7 LP est
 Other Scores: None

LRH Scope Score

John Jeffries 85 - 2x Cert
 Other Scores: None

Hunter Scope Score

John Jeffries 95 - 1x Cert
 Other Scores: None

Break Open/Score

Dave Federline 78 - 1x 32-20 T/C T/C Weaver 4/2 RCBS 174 3:1 0.301 Alox btm 2200-C Win 1175
 Maryland \$5.00 Win Contender 10 15 15x 165-Sil Y N 0.310 14.9 WSR est
 Ray Alt 78 - 0x 7-30 T/C T/C Bushnell 5/4 RCBS 153 4:1 0.278 LBT ladl Varget Win 1650
 West Virginia \$4.00 Waters Contender 14 9 9x 145-SIL N N 0.285 Blue 24 WLR est
 Other Scores: John Jeffries, 77 - 0x; DNF-1

Smallest individual groups: Hunter Scope: Jeffries, 0.897" LRH Scope: Jeffries, 1.516"; Break Open: Alt, 1.399"

Match #22, 200 YARD BPCR, 15 June 2016

Competitor home state	Score or Group Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make **** Model	Bbl mfg **** Length & twist	Stock mfr	Scope mfr **** Power	Total wgt rifle and scope lb/oz	Mould mfr **** Design no.	Wgt ready to load (gr.)	Alloy **** Heat treat **** Bmpd	Diam nose **** Diam base	Lube	Use ladl or btm pour	Powder **** Charge (gr)	Pri- mer **** No.	Muzz vel **** est/ chro

Iron Sights

Les Whiteside 5 hits 40-65 Rem Badger Own 11/2 PJones 489 30/1 0.400 SPG ladl Goex Win 1200
 Missouri \$5.00 Rblock 30 18 N N 0.410 61 WLR est
 Tom Acheson 3 hits 40-70 C-Sharps Badger C-Sharps 12/2 PJones 416 18/1 SPG ladl Swiss2F Fed 1320
 Minnesota \$4.00 30 16 N N 0.410 68 150 chro
 Other Scores: Chuck Malone, 2; Dave Edwards, 0

Scope

Chuck Malone 6 hits 38-50 CPA GMTN CPA MVA 11/12 Lyman 335 8BHN 0.368 Home ladl Oldee 1.5 Fed 1300
 Ohio Certificate 44-1/2 29 12 6x N N 0.380 Made 53 210M est
 Other Scores: None

Match #6A, SEASON PISTOL BR, 1 July 2016

Competitor home state	Score or Group ***** Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- ignation	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro

Hunter Scope/Group:

John Jeffries	1.658	0.223		T/C	T/C	Bushnell	4/2	Lyman	58	Lino	0.218	Emmert	ladl	H4198	Fed	1600
Washington	\$4.50	Rem	Contender	10 12		10x		225646		N N	0.225			10.5	205	est

Other Scores: David Eklof, 1.701"

LRH Scope/Group:

John Jeffries	1.439"	300		Remington			6/15	Lee	150	Lino	0.302	Emmert	ladl	Unique	Fed	1500
Washington	Cert.	Savage	XP100	14 10				309-150		N N	0.310			10.0	210	est

Other Scores: None

Break Open/Group

John Jeffries	1.785"	221	TC	MGM	T/C	BSA	6/15	NOE	75	Lino	0.222	Emmert	ladl	RL-7	Rem	1459
Washington	\$5.00	Fireball	Contender	8 15		36x		227-80		N N	0.225			10	6.5	chro
Richard Dupraz	1.813"	7-30	TC	Super 14	T/C	Weaver	6/15	RCBS	150	Lino	0.277	W-L	ladl	AL2400	Rem	
South Dakota	\$4.00	Waters	Contender	14 9		9x		145-SIL		N N	0.286	2500		15	LP	

Other Scores: Ray Alt, 1.898"; Dave Federline, 3.908"

Hunter Iron/Score:

David Edwards	62-1x	45ACP	Colt					Lee	Lino	200	Lino		Lee	btm	WST	Fed	850
North Carolina	Cert.		GoldCup	5 16.0				452-200SWC		N N	0.451	Alox		4.7	LP	est	

Other Scores: None

LRH Scope Score

John Jeffries 83- 0x Cert

Other Scores: None

Hunter Scope Score

John Jeffries 92 - 0x Cert

Other Scores: None

Break Open/Score

John Jeffries	83 -0x	221	TC	MGM	T/C	BSA	6/15	NOE	75	Lino	0.222	Emmert	ladl	RL-7	Rem	1459
Washington	\$5.00	Fireball	Contender	8 15		36x		227-80		N N	0.225			10	6.5	chro
Richard Dupraz	81 - 0x	7-30	TC	Super 14	T/C	Weaver	6/15	RCBS	150	Lino	0.277	W-L	ladl	AL2400	Rem	
South Dakota	\$4.00	Waters	Contender	14 9		9x		145-SIL		N N	0.286	2500		15	LP	

Other Scores: Ray Alt, 81-0x; Dave Federline, 61 - 0x

Smallest individual groups: Hunter Scope: Eklof, 1.020" LRH Scope: Jeffries, 0.903"; Break Open: Dupraz, 0.950"

Match #22, 200 YARD BPCR, 15 July 2016

Competitor home state	Score or Group ***** Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- ignation	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro

Iron Sights

Chuck Malone	3hits	38-50	CPA	GMTN	CPA		11/12	Santa	338	40/1		Paper	ladl	KIK1-1/2	Fioc	1350
Ohio	\$5.00		44-1/2	29 12				PP		N N	0.370	Patch		53	LP	est
Tom Acheson	2 hits	40-70	C-Sharps	Badger	C-Sharps		12/2	PJones	416	18/1		SPG	ladl	Swiss2F	Fed	1320
Minnesota	\$4.00			30 16						N N	0.410			68	150	chro

Other Scores: Duane Nelson, 4; TomAcheson, 1

Scope

Chuck Malone	8 hits	38-50	CPA	GMTN	CPA	MVA	11/12	Lyman	335	8BHN	0.368	Home	ladl	Kik1-1/2	Fioc	1300
Ohio	Certificate		44-1/2	29 12		6x				N N	0.380	Made		53	LP	est

Other Scores: None

Match #6, SEASON BENCHREST, 1 June 2016

Competitor home state	Score or Group Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make Model	Bbl mfg Length & twist	Stock mfr	Scope mfr Power	Total wtg rifle and scope lb/oz	Mould mfr Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
Hunting Rifle/Group:																
Rudy Reyes Virginia	1.047 \$4.50	308 Win	Remington 788	18.5 10		Leupold 36x	8/8	LBT	209	lino-ww N N	0.302 0.309	LBT Blue	ladl	IMR4895 28.7	Fed 210M	1650 est
Other Scores:		David Pape Sr 1.591"; Bill Urquhart, 1.663														
Production/Group:																
Don Kost Pennsylvania	0.847 \$5.00	308 Win	Remington 12BVSS	26 12		Tasco 36X	11/12	RCBS 165SIL	165	lino N N	0.301 0.309	Orange Magic	ladl	IMR4198 25.5	Win WLR	1850 est
John Jeffries Washington	0.898 \$4.00	308 Win	Savage 12	26 10		Weaver 36	11/15	Lyman 311284	206	Lino N N	0.301 0.310	Emmert H4198	ladl	23	Fed 210	1600 est
Other Scores:		Ben Seaman, 0.980"; David Pape Sr. 1.408"														
Heavy/Group:																
Chuck Becher Pennsylvania	0.593 \$5.00	30BR Win	Rem 700	Lija 22 12	McMillan	Weaver 36x	13/14	Eagan 430ARD	215	ww-lino Y N	0.301 0.310	voodoo N	ladl	H4895 30	Win WSR	2100 est
Jerry Bottiger Pennsylvania	0.666 \$4.00	308x 1.5	Nesika J	Kreiger 22 11	McMillian	Weaver 36x	12/4	Eagan MX420ARD	217	lino N N	0.300 0.310	Grays #24	ladl	N135 28.5	Fed 205M	1925 chro
Other Scores:		Ron Haralson, 1.075"; Jerry Quinn, 1.097"														
Break Action Rifle/Group																
Paul Pollard Ohio	0.880 \$5.00	256 WINMAG	TC Contender	Bullberry 20 14	Woodsmith	Leupold 12x	6/8	EAGAN MX3-25	95	lino N N	0.251 0.260	Carnuba N	ladl	LT30 15.5	CCI 450	2020 chro
Dave Federline Ohio	1.395 \$4.00	25-222 Ackley	TC Contender	MGM 25 10	TC/Self	Weaver 36x	6/8	RCBS 120SP	123	3-1 N N	0.251 0.259	Alox Moly	ladl	A2400 9.7	CCI 400	1500 est
Other Scores:		Phil DeCamp, 1.432"; Brian Poole 1.578"; Ray Alt, 1.586"; Rudy Reyes, 1.839"														
Hunting Rifle/Score:																
Bill Urquhart Virginia	96 - 0x \$5.00	30-06	Remington 1903A3	22 10		BSA 30x	9/2	Lyman 311284	217	50/50 N N	0.300 0.311	Lyman 5050	btm	RX7 24.5	Win WLR	1660 chro
Other Scores:		Rudy Reyes 94 - 1x; David Pape Sr., 80 - 0x														
Production/Score:																
Ben Seaman Pennsylvania	94 - 0x \$5.00	308 Win	Remington VLS	24 12		Weaver 36X	10/12	EAGAN RBR	182	lino N N	0.302 0.310	Grays N	ladl	N135 30	Fed 210	1900 est
Don Kost Pennsylvania	93 - 0x \$4.00	308 Win	Remington 12BVSS	26 12		Tasco 36X	11/12	RCBS 165SIL	165	lino N N	0.301 0.309	Orange Magic	ladl	IMR4198 25.5	Win WLR	1850 est
Other Scores:		John Jeffries, 91 - 1x; David Pape Sr., 87 - 0x; Anthony Alviti, 81-0x														
Heavy/Score:																
Chuck Becher Colorado	98 - 3x \$4.00	\$5.00 -Data as above Win	Savage BVS12	24 12		Burris 22x	11/6	Lyman 311332	185	ww N N	0.301 0.311	Alox N	ladl	AL2400 16	Win WLR	1500 est
Other Scores:		Karl Rudin, 83 - 0x														
Break Open Rifle Score																
Brian Poole Arkansas	88-1x \$5.00	30WCF	TC Contender	TC 24 10	TC	Tasco 14x	7/14	Lee 160TL	168	3-1 N N	0.302 0.310	Lee Alox	btm	Sw Prec 17.5	Wolf WLR	1550 est
Ray Alt West Virginia	87 - 1x \$4.00	7-30 Waters	TC Contender	TC 24 9	Hi Plains	Nikon 14x	8/5	RCBS 145-SIL	153	4-1 N N	0.278 0.285	LBT Blue	ladl	Varget 27	WIN WLR	1905 chro
Small Groups:		Hunting: Urquhart, 0.476"; Prod: Kost, 0.602"; Hvy: Becher, 0.427"; Break Open Rifle: Pollard, 0.583"														

Match #21, TIMED FIRE HANDGUN, 15 May 2016

Competitor home state	Score or Group Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make Model	Bbl mfg Length & twist	Stock mfr	Scope mfr Power	Total wtg rifle and scope lb/oz	Mould mfr Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
REVOLVER																
John Dumdei Nebraska	84 - 0x \$5.00	0.327 Federal	Ruger SP101	3				RCBS 32-098	100	Scrap N N	0.313	Lyman Orange		Un Clays 4.3	Fed 100M	900 est
Brian Capps Indiana	81 - 0x \$4.00	45 Colt SAA	Pietta 5					Lee 452-255	255	ww N N	0.452	PC N	btm	700x 5.7	Win WLP	850 est
Other Scores:		Tom Acheson, 80- 0x; Dave Edwards, 71 - 0x														
SEMI AUTO																
Brian Capps Indiana	89 - 1x \$5.00	38ACP	Astra 400	4				Lee 356-124	125	ww N N	0.357	PC N	btm	HP-38 3.7	Win WSP	1000 est
Other Scores:		John Dumdei, 75 - 0x; Tom Acheson, 46 - 0x														

Match #7, SEASON MILITARY BR, 1 June 2016

Competitor home state	Score or Group ***** Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
Issue/Group:																
Jim Minnig	2.685	30 - 06		US Remington		8/14	Lyman	205	Lyman 2	0.302	White L	ladl	H4198	Win	1600	
South Dakota	\$5.00		03-A3	24 10			314299		N N	0.312	2500		21.6	WLR	est	
Other Scores: Jim Butts, 3.264" DNF-1																
Mod Iron/Group:																
John Jeffries	1.590	7.5x55		Schmidt-Rubin		9/11	Saeco	186	Lino	0.301	Emmert	ladl	H4198	Fed	1600	
Washington	\$5.00		K31	26 10			301		N N	0.310			23	210	est	
Other Scores: Michael Kastning, 2.250" Jerry Quinn, 4.688"																
Mod Scope/Group:																
Ben Seaman	1.255	30 - 06		US Remington	Burriss	9/2	Lyman	195	Lino	0.301	Gray	ladl	H4198	Win	1550	
Washington	\$5.50		03-A3	24 10	6x		314299		N N	0.310			23.5	WLR	est	
John Carlson	1.469	30-06		US Remington	Sightron	9/2	NOE	210	BHN16	0.306	W-L	btm	IMR4227	Win	1570	
South Dakota	\$4.50		03-A3	22 10	6x		314202		N N	0.312	2500		21	WLR	chro	
Gene Crisman	1.501	7.5x55		Schmidt-Rubin	Boyd	9/11	NOE	200	Lyman 2	0.298	Lee	ladl	IMR4227	Win	1500	
South Dakota	\$4.50		K31	26 10	6x		311299		N N	0.309	Alox		19	WLRM	est	
Other Scores: Charlie Huebner, 2.364"; Tom Knadel, 2.080"; DNF-2																
Issue/Score:																
Jim Butts	82 - 1x	6.5x55		Carl Gustav		8/8	Lyman	129	ww	0.301	W-L	ladl	700x	Win	1200	
Pennsylvania	\$5.00		1896	29.1 7.7			266455		Y N	0.310	2500		7.5	WLR	est	
Jim Minnig	82 - 0x	30 - 06		US Remington		8/14	Lyman	205	Lyman 2	0.302	White L	ladl	H4198	Win	1600	
South Dakota	\$4.00		03-A3	24 10			314299		N N	0.312	2500		21.6	WLR	est	
Other Scores: Les Whiteside, 81 - 1x; Jon Welda 79 - 0x																
Mod Iron/Score:																
John Jeffries	97 - 3x	7.5x55		Schmidt-Rubin		9/11	Saeco	186	Lino	0.301	Emmert	ladl	H4198	Fed	1600	
Washington	\$5.00		K31	26 10			301		N N	0.310			23	210	est	
David Cronce	94 - 2x	30 - 06		US Remington		8/14	Lyman	176	lino-ww	0.302	White L	ladl	A2400	Win	1400	
Washington	\$4.00		03-A3	24 10			311291		N N	0.309	2400		16.5	WLR	est	
Other Scores: William Gifford, 93 - 1x; Michael Kastning 93 - 1x; Jerry Quinn, 76 - 0x																
Mod Scope/Score:																
Ben Seaman	95 - 1x	\$5.00 -- Data as above														
Gene Crisman	94 - 1x	\$4.00 -- Data as above														
Other Scores: John Carlson, 87 - 1x; David Cronce, 85 - 1x; Tom Knadel, 64 - 0x																

Smallest individual groups: Issue: Hueber, 2.349"; Mod Iron: Kastning, 1.131" ; Mod Scope: Seaman, 0.646"

MATCH #9 and 9A, SEASON OFFHAND, 15 May 2016

Competitor home state	Score or Group ***** Award	Equipment:						Bullets:						Load:		
		Cart- ridge des- igna- tion	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
SCOPE:																
Kerry Moore	83 - 2x	270	Savage			8/0	Lee	125	ww	0.132	Own	btm	Unique	Win	1800	
Wisconsin	\$5.00	Win	110J	22 12			C277125R		N N	0.278			14.5	WLR	est	
Other Scores: Jon Welda, 77 - 0x																
IRON:																
Pete Voss	83 - 1x	30-06		Remington		8/8	Lyman	200	ww/lino	0.300	4BW	ladl	SR4759	Win	1400	
California	\$4.50		1903A3	24 10			311299		N N	0.311	1ATF		20	WLR	est	
Other Scores: Ron Haralson, 83 - 0x																
Hunter Pistol Scope:																
John Jeffries	71 - 0x	22	TC			6/0	Lyman	57	lino		Emmert	ladl	Lilgun	Fed	1900	
California	Certificate	Hornet	Contender	12 12		Tasco	2.5x	255646	N N	0.225			7	205	est	
Hunter Pistol Iron:																
Pete Voss	78 - 1x	45	Ruger			2/4	SAECO	200	20-1		4BW	ladl	700x	Win	800	
California	\$4.50	Colt	B-Hawk	7.5					N N	0.452	1ATF		6	WLP	est	
Other Scores: Dave Edwards, 62 - 0x																

Match #7, SEASON MILITARY BR, 1 July 2016

Competitor home state	Equipment:							Bullets:						Load:		
	Score or Group ***** Award	Cart- ridge des- ignation	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
Issue/Group:																
Charlie Huebner	3.081	30 - 06		US Remington			88	Lyman	196	Scrap	0.300	JPW	ladl	xmp5744	S&B	1550
Florida	\$5.00		03-A3	24 10				311332		N N	0.311	ALOX		20	LR	est
Other Scores:	Jim Minnig, 3.315"; Jim Butts, 4.492"															
Mod Iron/Group:																
John Jeffries	1.622	7.5x55		Schmidt-Rubin			9/11	Saeco	186	Lino	0.301	Emmert	ladl	H4198	Fed	1600
Washington	\$4.50		K31	26 10				301		N N	0.310			23	210	est
Other Scores:	DNF-1															
Mod Scope/Group:																
John Carlson	1.235	30-06		US Remington		Sightron	9/2	NOE	210	BHN16	0.306	W-L	btm	IMR4227	Win	1570
South Dakota	\$5.50		03-A3	22 10		6x		314202		N N	0.312	2500		21	WLR	chro
Ben Seaman	1.476	30 - 06		US Remington		Burris	9/2	Lyman	195	Lino	0.301	Gray	ladl	H4198	Win	1550
Washington	\$4.50		03-A3	24 10		6x		314299		N N	0.310			23.5	WLR	est
Gene Crisman	1.704	7.5x55	Schmidt-Rubin		Boyd	Leupold	9/11	NOE	200	Lyman 2	0.298	Lee	ladl	IMR4227	Win	1500
South Dakota	\$4.00		K31	26 10		6x		311299		N N	0.309	Alox		19	WLRM	est
Other Scores:	Jerry Quinn, 1.981"; Paul Wyszowski, 2.277"; Tom Knadel, 2.333"; Dennis Bruns, 2.431"; Charlie Huebner, 3.229"															
Issue/Score:																
Jim Butts	87 - 1x	6.5x55		Carl Gustav			8/8	Lyman	129	ww	0.301	W-L	ladl	700x	Win	1200
Pennsylvania	\$5.00		1896	29.1 7.7				266455		Y N	0.310	2500		7.5	WLR	est
Jim Minnig	80 - 0x	30 - 06		US Remington			8/14	Lyman	205	Lyman 2	0.302	White L	ladl	H4198	Win	1600
South Dakota	\$4.00		03-A3	24 10				314299		N N	0.312	2500		21.6	WLR	est
Other Scores:	Jon Welda 75 - 0x; Les Whiteside, 71 - 1x;															
Mod Iron/Score:																
David Cronce	96 - 4x	30 - 06		US Remington			8/14	Lyman	176	lino-ww	0.302	White L	ladl	A2400	Win	1400
Washington	\$5.00		03-A3	24 10				311291		N N	0.309	2400		16.5	WLR	est
John Jeffries	96 - 2x	7.5x55		Schmidt-Rubin			9/11	Saeco	186	Lino	0.301	Emmert	ladl	H4198	Fed	1600
Washington	\$4.00		K31	26 10				301		N N	0.310			23	210	est
Other Scores:	Bill Gifford, 92 - 2x; DNF-1															
Mod Scope/Score:																
Gene Crisman	94 - 1x	\$5.50 - - Data as above														
John Carlson	92 - 1x	\$4.50 - - Data as above														
Ben Seaman	90 - 0x	\$4.00 - - Data as above														
Other Scores:	David Cronce, 87 - 1x; Tom Knadel, 84 - 0x; Dennis Bruns, 79 - 1x; Jerry Quinn, 74 - 0x															

Smallest individual groups: Issue: Minnig, 1.725"; Mod Iron: Jeffries, 1.062" ; Mod Scope: Carlson, .900"; (Crisman .901")

MATCH #9 and 9A, SEASON OFFHAND, 15 June 2016

Competitor home state	Equipment:							Bullets:						Load:		
	Score or Group ***** Award	Cart- ridge des- ignation	Rifle make ***** Model	Bbl mfg ***** Length & twist	Stock mfr	Scope mfr ***** Power	Total wgt rifle and scope lb/oz	Mould mfr ***** Design no.	Wgt ready to load (gr.)	Alloy ***** Heat treat ***** Bmpd	Diam nose ***** Diam base	Lube	Use ladl or btm pour	Powder ***** Charge (gr)	Pri- mer ***** No.	Muzz vel ***** est/ chro
SCOPE:																
Jon Welda	79 - 0x	308x1.5	Ruger		Weaver		Lyman	205	ww	0.304	Alox	btm	IMR4227	Rem	1200	
Minnesota	\$5.00		77	22 10		12x		311284		N N	0.310	Bens		14.4	LR	est
Other Scores:	Stan Livingston, 78 - 0 x; Kerry Moore, 73 - 2x															
IRON:																
Ron Haralson	83- 0x	257	Arisaka	Bauska	Self		10/7	CBE	97	ww+	0.250	Can Tire	ladl	H110	Win	1350
B C Canada	\$4.50		Roberts	29 10				25790		N N	0.257	Moly		10	WLR	est
Other Scores:	Pete Voss, 79 - 1x															
Hunter Pistol Scope:																
None																
Hunter Pistol Iron:																
Pete Voss	60-0x	45	Ruger				2/4	SAECO	200	20-1		4BW	ladl	700x	Win	800
California	\$4.50		Colt	B-Hawk	7.5					N N	0.452	1ATF		6	WLP	est
Other Scores:	Dave Edwards, 30 - 0x															

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THE CAST BULLET ASSOCIATION'S NATURE AND PURPOSE

The Cast Bullet Association is an organization of shooters who enjoy shooting cast lead bullets in rifles and handguns for competition, hunting, or informal target shooting. The Association's central purpose is to help shooters enjoy cast bullet shooting by:

- Stimulating and encouraging experiments in casting and handloading cast bullets that will improve the design, accuracy and effectiveness of the ammunition and increase the satisfaction and enjoyment of shooters.
- Provide well-regulated shooting competitions programs including postal matches. that can be shot on the shooter's

home range, for those who would like to test their loading and shooting skills against others.

- Publishing an official journal, The Fouling Shot, to serve as a forum for the exchange of ideas, to report on the results of experiments, experiences, and competitions with cast bullets; and to report all affairs of the Association to the membership.
- Conducting the Associations affairs in a manner which presents a favorable impression of the private ownership of firearms to the general public and to otherwise support the citizen's right to keep and bear arms.

MEMBERSHIP APPLICATION

I hereby apply for membership in The Cast Bullet Association, Inc. I agree to promote the objectives of the association and will fulfill the obligations of good sportsmanship and good citizenship.

All fields are required

Personal Signature _____

New Member [] Renewal [] CBA Membership #: _____ NRA Member [] Yes [] No

Please Print: Name: _____

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