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JUNE 2018

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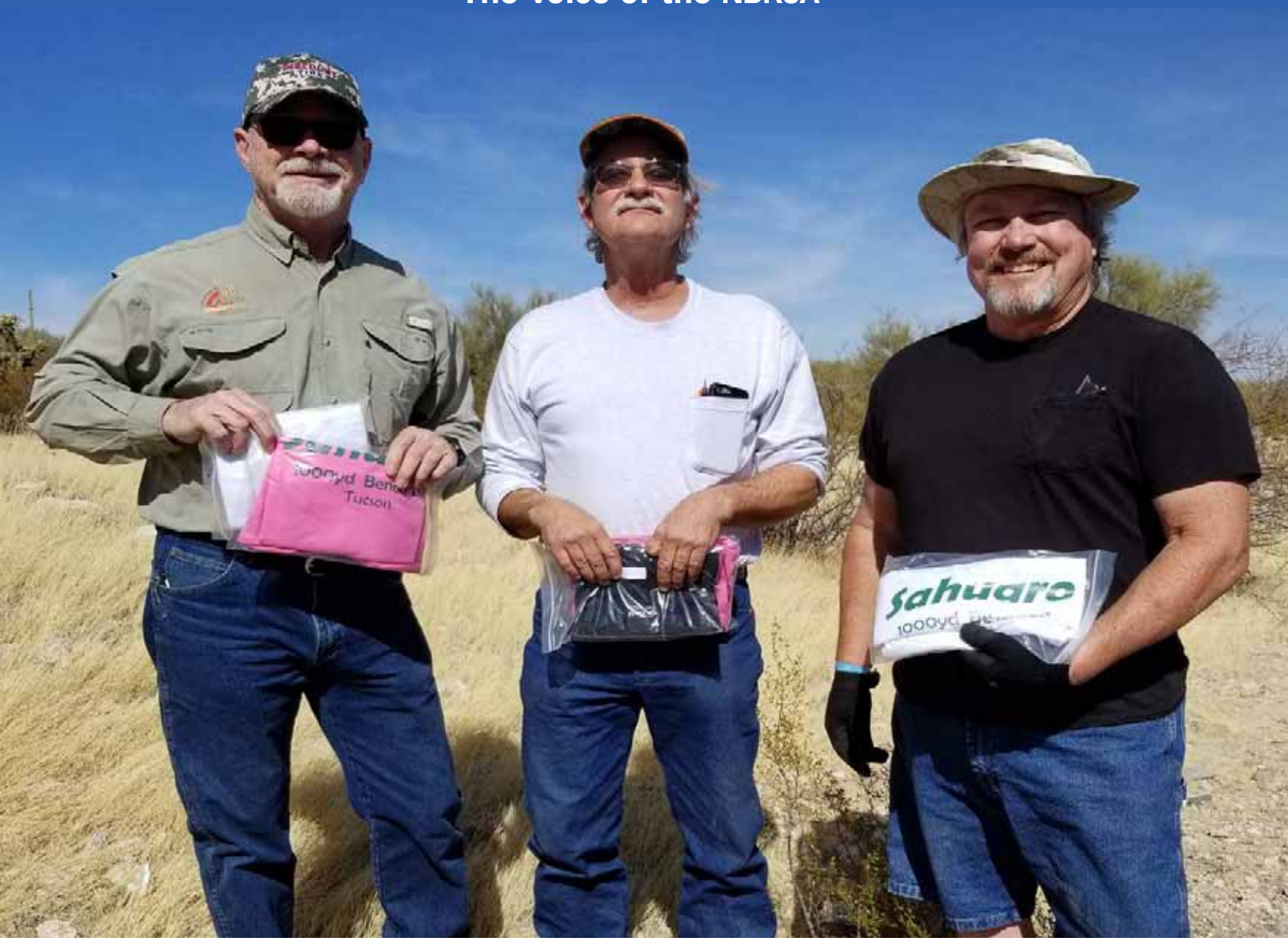

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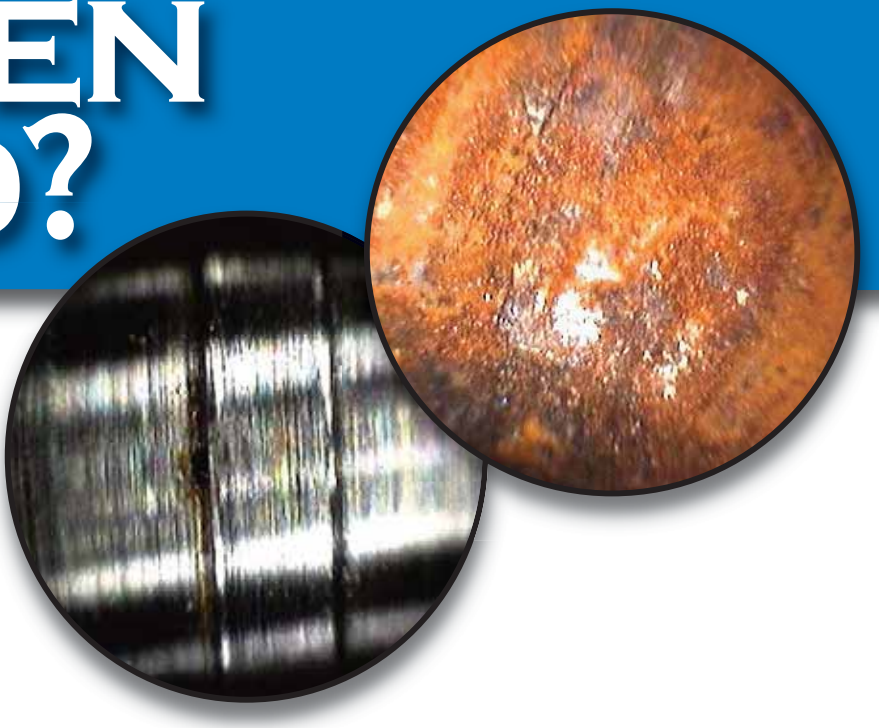

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SAHUARO MATCH - FEBRUARY 10, 2018

The Cover-

My short-range wind flag is a pretty good indicator for the wind, because when it is laying on it's side you know the wind is blowing pretty good. I had forgotten my stakes and hammer so I had to pile large rocks on the tripod legs to get it to stay upright. It was one of those days when about the only thing you could put on your bench without the wind blowing it off was your rifle and rests. The wind came racing across the southern Arizona desert, through the saguaros and ocotillos, like it was in a big hurry to be somewhere.

Averaging about fifteen miles per hour with frequent gusts to about thirty, and if that wasn't enough, it kept wanting to change direction from nine o'clock to six thirty. The flags down near the pits would sometimes indicate a twelve to three o'clock wind which is not what we had on the line. I found myself wishing that a tornado would come through just to calm things down a bit.

It didn't start out that way though, during the first relay it just laid waiting in ambush, letting those shooters to get lulled into a sense of complacency. That allowed some nice groups to be shot, most notably by Super Dave Osborn, Billotte Gang leader Jeff Billotte and brother Mike, who shot all sub-MOA groups. Dave showed us how it is done with his first group being a 3.12" which easily took smallest group in Light Gun. Jeff was right behind him with a 4.93" and was able to consistently print slightly smaller groups for a 6.60" aggregate, winning for Light Gun Group. Dave was only .08 behind him with a 6.68" agg. Wow, that's close.

We actually had no less than 17 individual groups in Light Gun that were sub-MOA, some of which were shot in the hurricane that started in relay two. The top seven shooters in Light all had sub-MOA aggregates. Very impressive considering the conditions.

Our friend Mariah also kept the scores pretty low too, but very close. Super Dave was fourth with a 130, Jeff Billotte third with a 130-2x, Wild Bill Warner second with a 131-3x and then Dale Arenson snuck in there to take first with a 132-1x. Jeff posted the highest single target score with a 48-1x.

Heavy Gun was a little more brutal. No sub-MOA aggregates and only one sub-MOA group all day. That was a 9.56" group by Dale Arenson, winning smallest Heavy group and also taking first in total aggregate with a 12.45". This time the following agg's were close. Places two, three and four were 13+ inches and five and six were 16 inches. Beyond that it got a little messy, with a number of shots off paper.

Heavy Score produced some surprisingly good results. Dave Osborn had a 269-2x, winning first in Score with Jeff Billotte right on his heels with a 264-4x. There were actually four single target scores in the 90's and three of those were 95's. Dave had a 95, but then Dale and Jeff tied for highest targets, both with 95-2x's .

Tired of battling the wind, we retreated to a local taco shop for lunch where a gust of wind slammed the door so hard that it jammed closed and nobody could get in or out. The management finally got it freed only to have it happen again several more times. None the less, we are looking forward to getting together with our friends and doing it again next month on the second Saturday at the Three Points Range thirty miles west of Tucson, start time 7:00 AM if you would like to come and try your hand at hitting a target at 1,000 yards. It PROBABLY won't be blowing that bad next time, but then again out here, you never know.

LIGHT GUN

Jeff Billotte .....6.60"
Dave Osborn .....6.82"
Mike Billotte.....8.85"
Dale Arenson .....9.13"
Ross Herrick .....9.42"
Steve Brown .....9.71"
Bill Warner .....10.04"
Lon Person .....13.04"
John Benz .....16.46"
Bill Zaborewski ..... 24.21"

SMALL GROUP

Dave Osborn ..... 3.125"

Congratulations

LIGHT GUN

Congratulations

LIGHT GUN TOTAL SCORE

Dale Arenson 132-1x
Bill Warner 131-3x
Jeff Billotte 130-2x
Dave Osborn 130-0x
Mike Billotte 132-0x
Lon Person 118-0x
Steve Brown 114-2x
Ross Herrick 110-0x
John Benz 96-0x
Bill Zaboeweski 41-0x

HIGH SCORE

Jeff Billotte 48-1x

Equipment List

Name	Caliber	Action	Barrel	Gunsmith	Stock	Scope	Case	Powder	Bullet
J Billotte (L)	Lazz	McMillian	Pac Nor	Lazzarini	McMillian	Nitefor	R-P	H1000	Breger
J Billotte (H/35)	Lazz	McMillian	Pac Nor	Lazzarini	McMillian	Nitefor	Norma	H1000	Berger
Osborn (L)	Creedmore	Bat	Krieger	Bruno	McMillian	Nitefor	Lapua	RL13	Berger
Osborn (H)	WSM	Bat	Krieger	Bruno	McMillian	Nitefor	Nosler	RL-22	Berger
Arenson (H/29)	Patroit	Bat	Krieger	Bruno	McMillian	Nitefor	Lazz	H4831	Berger
Arenson (L)	Patroit	Rem	Hawk Hill	Harris	McMillian	Nitefor	Lazz	H4831	Berger

HEAVY GUN

Dale Arenson..... 12.46”
Mike Billotte .....13.62"
Jeff Billotte .....13.67”
Dave Osborn .....13.75"
Ross Herrick .....16.00"
Bill Warner .....16.96"
John Benz .....17.31"
Lon Person .....29.35"
Bill Zaborewski .....32.67"

SMALL GROUP

Dale Arenson 9.5625

Congratulations

HEAVY GUN

Congratulations

HEAVY GUN TOTAL SCORE

Dave Osborn 269-2x
Jrff Billotte 264-4x
Dale Arenson 257-2x
Ross Herrick 254-2x
Mike Billotte 147-1x
John Benz 243-0x
Bill Warner 220-1x
Bill Zaborewski 193-1x
Lon Person 182-0x

HIGH SCORE

Jeff & Dale 95-2x

ST. LOUIS BENCHREST CLUB VFS AND HUNTER SCORE - MARCH 11, 2018

WOW, what a rough day for a match! If they post the snow picture in the magazine you will understand that statement. We had a head wind that varied a bit from 1 o’clock to 3 o’clock, but most of us didn’t care much because looking through a snow storm was the real problem. The snow forecast kept many competitors away and most that did show up said they should have stayed home. It was somewhat difficult to see the rings on the target at times and the temperature was in the 30’s. We had 1 Hunter shooter and 6 Varmint for Score shooters.

In the VFS class at 100 yards the winner was Jerry Kloeppel with 250-21X, 2nd was Dustin Martin with 250-14X and 3rd was Robert Miller with 250-11X. At 200 yards the winner was Dustin Martin with 249-3X, 2nd was Jerry Kloeppel with 246-5X and 3rd was Wayne Corley with 245-10X. In the VFS grand the scores were 1st Dustin Martin 499-17X, 2nd was Jerry Kloeppel with 496-26X and 3rd was Wayne Corley with 494-27X.

In the Hunter class it was a one man battle today since Clark Greene was the only competitor to show up, Clark shot a 248-11X at 100 yards then shot one target at 200 yards and decided he would rather sit in the clubhouse where it was warm.

Attached is a photo of trophy winners – left to right Mike Dixon, Clark Greene, Wayne Corley, Dustin Martin and Jerry Kloeppel.

Thanks to all for coming out on such a lousy day and we hope to see you all at our next match which is April 22 at 9 AM. I can’t really guarantee anything on the weather but am willing to bet it will be a warmer and a better day than today!

VFS - 100 YARDS

Jerry Kloeppel..... 250.21
Dustin Martin 250.14
Robert Miller 250.11
Wayne Corley 249.17
Ken Lamb 249.11
Dennis Boyet 248.14

HUNTER 100

Clark Greene 248.11

LEFT_RIGHT: Mike Dixon, Clark Greene, Wayne Corley, Dustin Martin, Jerry Kloeppel.

Contine pg. 8

VFS - 200

Dustin Martin 249.03
Jerry Kloeppel..... 246.05
Wayne Corley 242.07
Dennis Boyet 242.04
Ken Lamb 239.00
Robert Miller 235.03

HUNTER 200 YARDS

Clark Greene 48.01

Shooting in Snowy Conditions

VFS GRAND

Dustin Martin 499.17
Jerry Kloeppel 496.26
Wayne Corley 491.24
Dennis Boyet 490.18
Ken Lamb 488.11
Robert Miller 485.14

HUNTER GRAND

Clark Greene 296.12

VFS - EQUIPMENT LIST

NAME	CALIBER	ACTION	BARREL	GUNSMITH	STOCKER	SCOPE	CASE	POWDER	PRIMER	BULLET
Dustin Martin	6 PPC	Panda	Krieger	Self	Self	Nightfor	Lapua	H-322	Fed	Berger
Jerry Kloeppel	30 BR	BAT	Krieger	Self	Self	March	Lapua	H-4198	Fed	Cheek
Denis Boyet	30 BR	Panda	Krieger	Self	McMillan	Leupold	Lapua	H-4198	Fed	10-X
Robert Miller	6 PPC	Panda	Krieger	N/A	N/A	Leupold	N/A	N/A	68 gr	Bart
Wayne Corley	30 BR	BAT	Lederer	Hoehn	Self	March	Lapua	H-4198	Fed	Hi Score
Ken Lamb	30 BR	Panda	Shilen	Hoehn	N/A	T-36	Lapua	H-4198	CCI BR	Barts

HUNTER - EQUIPMENT LIST

NAME	CALIBER	ACTION	BARREL	GUNSMITH	STOCKER	SCOPE	CASE	POWDER	PRIMER	BULLET
Clark Greene	308S	Rem	Broughton	Smart	Smart	Leupold	Lapua	SRB-118	Fed	150

WAYNE CAMPBELL WINS THE 2018 CACTUS CLASSIC - MARCH 10TH

Thank you for coming out to shoot the 2018 Cactus Classic. We are thrilled to say that this match saw a total of 157 shooters this year, the largest that we have seen in quite some time! Shooters from as far away as Sweden came out to enjoy a mostly sunny week.

The first few days of practice saw quite a bit of wind in the morning, but the rest of the week saw some pretty mild, even if sometimes switchy, conditions. We ended the week of practice on Friday night with a banquet where we gave away prizes that were donated to the match by various sponsors; including scopes, barrels, stocks, and more.

Saturday, we started with Light Varmint 100 yards. Durward Wofford took match 1 with a 0.123, Keith Cottrell took match 2 with a 0.109, Dean Ekstrom took match 3 with a 0.102 which earned him small group for the LV-100, Peter Haxel took match 4 with a 0.105, and Joe Pipola took match 5 with a 0.120. Larry Baggett came in 3rd in the LV-100 agg with a 0.1856, Hugh Williamson came in 2nd with a 0.1834, and Jonas Sandberg came in 1st with a 0.1818.

In the afternoon we shot Heavy Varmint 100 yards. Tom DeBacco took match 1 with a 0.095 which got him small group for the yardage, Gabriel Ledesma took match 2 with a 0.116, Lowell Frei took match 3 with a 0.104, Jack Childers took match 4 with a 0.129, and Greg King took match 5 with a 0.106. Keith Cottrell came in 3rd in the HV-100 agg with a 0.1976, Robert Seeman came in 2nd with a 0.1920, and Wayne Campbell came in 1st with a 0.1864.

Sunday morning's weather took a turn and we ended up with pouring rain in the early morning. Unfortunately for the target crew, it was still pouring while they were putting in the targets. Luckily for our shooters, the rain calmed down by the time we started shooting. The rest of the day saw sunny and fairly calm conditions.

We shot Heavy Varmint 200 yards first on Sunday. William Marsh took match 1 with a 0.271, Dennis Wagner took match 2 with a 0.242, Dennis Thornbury took match 3 with a 0.201 which got him small group for HV-200, Richard Brensing took match 4 with a 0.209, and Dennis Thornbury took match 5 with a 0.252. In the HV-200 agg, Bob Scarbrough came in 3rd with a 0.1921, Dean Ekstrom came in 2nd with a 0.1867, and Wayne Campbell came in 1st with a 0.1731.

In the afternoon we shot Light Varmint 200 yards. Lester Bruno took match 1 with a 0.235, Paul Pennell took match 2 with a 0.241, Gabriel Ledesma took match 3 with a 0.253, Joel Nader took match 4 with a 0.121, and Jack Neary took match 5 with a 0.109 that got him small group for the yardage. For the LV-200 agg, Wayne Miller came in 3rd with a 0.2220, Jack Neary came in 2nd with a 0.1823, and Joel Nader came in 1st with a 0.1821.

For the Light Varmint grand agg, Jack Neary came in 3rd with a 0.2173, Joel Nader came in 2nd with a 0.2127, and Jonas Sandberg came in 1st with a 0.2042. For the Heavy Varmint grand agg, Dean Ekstrom came in 3rd with a 0.2189, Dave Gibson came in 2nd with a 0.2150, and Wayne Campbell came in 1st with a 0.1798. In the end for the 2-Gun grand agg, Andy Shifflett came in 5th with a 0.2331, Jack Neary came in 4th with a 0.2327, Dean Ekstrom came in 3rd with a 0.2308, Joel Nader came in 2nd with a 0.2188, and Wayne Campbell came away our 2018 Cactus Classic 2-Gun winner with a 0.2100.

Another big thank you for making the trip out here to Phoenix, we are thrilled that we had such a great showing this year and always appreciate you choosing the Cactus as one of your must-attend matches. We hope to see you next month for the April 7th-8th Unlimited 5-shot Season Closing Match.

LV 100 YARDS

Jones Sandberg 0.1818
Hugh Williamson 0.1834
Larry Baggett 0.1856
Joe Pipola 0.1956T1
Harley Baker 0.1956T1

LV 200 YARDS

Joel Nader 0.1821
Jack Neary.....0.1823
Wayne Miller 0.2220
Paul Pennell 0.2264
Jonas Sandberg 0.2266

LV GRAND

Jonas Sandberg 0.2042
Joel Nader 0.2127
Jack Neary 0.2173
Harley Baker 0.2231
Hugh Williamson 0.2317

SMALL GROUP

Dean Ekstrom 0.102

SMALL GROUP

Jack Neary 0.109

HV 100 YARDS

Wayne Campbell 0.1864
Robert Seemann 0.1920
Keith Cottrell 0.1976
Wayne Christian 0.1988
Lester Bruno 0.2054

HV 200 YARDS

Wayne Campbell 0.1731
Dean Ekstrom 0.1867
Bob Scarbrough Jr 0.1921
Darrel Loker 0.1971
Timothy Oltersdorf 0.2015

HV GRAND

Wayne Campbell 0.1798
Dave Gibson 0.2150
Dean Ekstrom 0.2189
Bob Scarbrough Jr 0.2203
Mike Conry 0.2208

SMALL GROUP

Tom Debacco 0.09

SMALL GROUP

Dennis Thornbury 0.201

2 GUN

Wayne Campbell 0.2100
Joel Nader 0.2188
Dean Ekstrom 0.2308
Jack Neary 0.2327
Andy Shifflett Jr 0.2331
Hugh Williamson 0.2334
Bob Scarbrough Jr 0.2353
Larry Baggett 0.2362
Lester Bruno 0.2398T1
Gene Bukys 0.2398T2

RIGHT-LEFT: Jack Neary, Joel Nader, Wayne Campbell, Dean Ekstrom, Andy Shifflett

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LV - EQUIPMENT LIST

Name	Caliber	Action	Barrel	Stock	Stocker	Gunsmith	Scope	Powder	Bullet
Jonas Sandberg	6PPC	Neuvo	Krieger	Rune O.	Rune O.	Sandberg	Nightfor	N133	Oakhill
Joel Nader	6PPC	Panda	Hart	Kelbly	Kelbly	Nader	Leupold	8208	Nader
Jack Neary	6PPC	BAT	Bartlein	Scoville	Campbell	Campbell	Leupold	N133	Nader
Harley Baker	6PPC	BAT	Krieger	Leondard	Campbell	Campbell	Leupold	N133	HB
Hugh Williamson	6PPC	Farley	HW	Scarbro	Campbell	Campbell	Leupold	N133	Killer Bees
Gene Beggs	6 Beggs	Hall	Kreiger	Hall	Messer	Beggs	Leupold	H322	Haywood
Andy Shifflett	6PPC	BAT	Bartlien	Scarbro	Shifflett	Campbell	Leupold	LT	JD
Ken Hottenstein	6PPC	BAT	N/A	N/A	N/A	Scott	Leupold	N133	Hotten
Joe Pipola	6PPC	Bat	Krieger	Bruno/McMill	Ocock	Ocock	March	8208	Pipola
Wayne Campbell	6PPC	BAT	Bartlein	Scarbro	WC	WC	Nightfor	N133	WC

No Names Submitted

HV - EQUIPMENT LIST

Name	Caliber	Action	Barrel	Stock	Stocker	Gunsmith	Scope	Powder	Bullet
Wayne Campbell	6PPC	BAT	Bartlein	Scarbro	WC	WC	Nightfor	N133	WC
Dave Gibson	6PPC	BAT	Bartlien	Leonard	Gibson	Gibson	Nightfor	N133	Miller
Dean Ekstrom	6PPC	BAT	Bartlein	Leonard	Leonard	Self	Nightfor	N133	Miller
Bob Scarbrough	6PPC	BAT	Krieger	Scarbro	Scarbro	Scott	Leupold	N133	Hott
Michael Conry	6PPC	BAT	Krieger	Scarbro	Scarbro	Conry	Nightfor	N133	Conry
Jack Childers	6PPC	Viper	Krieger	McMillan	Ocock	Ocock	Nightfor	8208	JC
Joel Nader	6PPC	BAT	Bartlein	Scarbro	Scarbro	Nader	March	8208	Nader
Bruno	6PPC	BAT	Krieger	Scarbro	Lester	Lester	Nightfor	N133	Bruno
Darrel Loker	6PPC	Farley	Lederer	S GY	Loker	Loker	Nightfor	N133	C-Bar
Larry Baggett	6PPC	Bat	Bartlein	Scoville	Baggett	Bagget	Leupold	N201	Baggett

PPC ORIGINS – PART 2

Part I of "PPC Origins" left off at May 1975. Pawlak Laboratories had tested a variety of powders in .22 and 6mm barrels. The parent case's shoulder angle and body taper were altered to assess five factors - pressure, velocity, barrel vibration, peak pressure, and muzzle disturbance. Palmisano and Pindell used that feedback to solidify the PPC's dimensions. To recap:

- Overall length = 1.500"
- Body taper = 0.010" per inch
- Shoulder angle = 30 degrees
- Flash hole diameter = 0.066"

In late May 1975, the two each took a pair of PPC rifles to the Super Shoot in Midland, TX. The cartridge was laboratory vetted, but how would it fair against wind, mirage, and changing air? Lou Palmisano answered that with a resounding win in heavy varmint-100. Through tricky conditions, he steered his .22 PPC to a low 0.2648" aggregate (0.341", 0.313", 0.213", 0.295", and 0.162" - the load was 24.0 of 4198). Ron Prachyl took second place with a 0.3002". The running joke was, "It must be the cartridge. We all know Lou isn't that good a shooter". Three months later at the New York State Championships, John Fournier won heavy varmint and got second place in LV shooting a 6 PPC. Mike Walker edged him out for the two-gun win. The PPC again shocked the benchrest ranks in August 1976, when Lou's 14-year old son won the 200-yard leg at Johnston, NY. David Palmisano ousted 180 competitors with a 0.3280" agg. If people hadn't taken notice to that point, they were starting to. It would take more time before the

cartridge totally dominated short-range BR, but the seed was planted. One by one, top shooters were transitioning from 222's and 6x47's to the PPC. Myles Hollister was an early adopter and famed gunsmith Roy Vail placed high praise on the wildcat.

The PPC was commercialized with a full-page ad in Precision Shooting, August 1975. They touted it as:

"The newest, most scientifically researched benchrest cartridge of the decade. In the Super Shoot, it was the PPC; the only cartridge under 0.3". With the strength of the Swift, the velocities of the Wasp, and super accuracy all its own".

Forty plus years later, it's hard to argue with these claims. Palmisano and Pindell supplied barrels, loading data, precision reloading dies, and bullet swaging tools.

In essence, they gave the sport everything they needed to cut over to the PPC. For their efforts, Lou Palmisano was named the 1976 Benchrest Person of the Year. Lou received the award at the Super Shoot and he was quick to give equal credit to Ferris Pindell. Honorable mention went to Dan Pawlak and the late Bob Hart. Both were ardent supporters of the PPC. In one year, the PPC went from a brainstorming session at Wapwallopen to a full-fledged competitive offering.

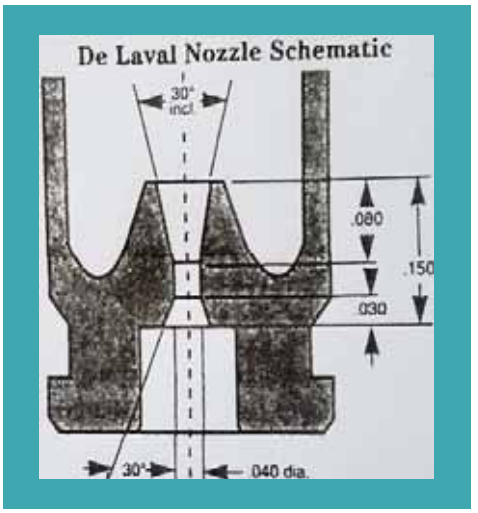
Pawlak Laboratories continued their evaluations beyond the 1975 SS victory. Lou and Ferris were not about to rest on their early success. Perhaps the most insightful report came from Pawlak in June 1975. In a letter dated June 11, he conveyed the following:

"After completing further tests of your .220 PPC we have made more striking observations. We began running statistical analyses on pressure time curves with 24 grs of IMR 4198 and the 53 gr Hornady H.P. We were concerned with the outcome of our calculations which showed that the bullet was exiting the muzzle long after the relative peak velocity had been reached.

To prove the correctness of our data we installed a sensor at the muzzle to show precisely when the bullet left in relation to the pres-

Continue pg.12

sure curve. This test proved our data to be accurate (neglecting friction). What this shows is that the bullet is leaving the barrel some 640 microseconds after the peak pressure had been reached leaving only an approximate 8,000 PSI breech pressure. This is a very low value indicating complete consumption of the propellant and a very low muzzle disturbance. We will be able to approximate the muzzle pressure by installing a second transducer near the muzzle where three pressure characteristics are involved – static, dynamic, and stow. Although we have not tested the .222 in a similar manner, I would extend a guess that this is a unique phenomenon of the .220 cartridge design.



The extended volume of this design is far superior to the .220 Russian in that a large volume/small bullet diameter combination allows less volume sensitivity to bullet movement. This is enhanced by the short L over D and the shallow taper of the case. True, there have been other attempts along this line, i.e. .17 Bee, .224 ICL, 6mm Donaldson International, etc., yet none of these has coupled the short, fat shape with a small primer and even smaller flash hole which is not obvious. In fact, it has been the effort of primer manufacturers to fill an individual cartridge with as much hot particles as possible. This work is clearly documented by nearly every work on the subject. You have perhaps one of the more revolutionary concepts of internal ballistics to come about. The fact that the pressure curves are consistent in shape attests to the efficiency of the system. A theory might be that the small flash hole regulates the flow of hot particles and gases into the case over an extended period of time. More experimentation along this line would be in order.

The benefits of having the ignition properties regulated are immediately obvious; dependence upon very uniform primers is somewhat alleviated and there is a longer duration for heat transfer to the propellant. The same is true of having a late bullet exit; velocity uniformity need not depend so much on uniform pressure profiles. If the propellant weight is consistent and neck tension is negligible then the velocity will tend to be uniform because most of the potential energy available to the bullet will have been imparted to it long before it leaves the barrel.

Mr. Roland Franzen, who assisted in the test and who is past head of the instrumentation department at Diehl in Nurnberg, West Germany for 10 years (Diehl is a military munitions plant employing 14,000 workers) was quite taken with the efficiency of the cartridge. He stated that the 7.62 Nato (.308 Win) round, a sort of standard of the industry, had a great deal of muzzle pressure and in fact all small arms rounds he had ever tested had similar characteristics. You of course have proven the .220 PPC's inherent accuracy.

We have begun tooling up for the vibration tests. Mr. Franzen estimated the first harmonic will attain 2000 Hz. When this value is measured we will be able to find the wave lengths in each barrel so tested. Of course we will directly measure the amplitude of the muzzle whip and its relation to the bullet travel.

The significance of this cartridge design is surely underestimated. Its potential as a military round should not be overlooked. – Dan Pawlak"

This further illustrates the rigorous testing applied to the PPC. In later correspondence, Pawlak confirmed his suspicions on harmonics and whip. The cartridge did exhibit less muzzle vibration than other precision rounds, particularly at bullet exit. This prompted Pindell to hypothesize more about the shape of the flash hole. Leveraging the De Laval passage used in rockets, he believed better ignition could be had via a cone entrance, short cylinder, cone exit contour. This would increase the mass flow of propellant gases in a given chamber. Dan Pawlak agreed with Pindell and took the notion a step further:

"Although all the present mathematical formulas apply, rocket nozzles have been designed for use at atmospheric pressure and below, with chamber pressures reaching a maximum of around 3,000 PSI. Whereas the chamber pressures may vary greatly during combustion, the exit pressure remains relatively constant. In a cartridge case the gases are exiting into a fixed volume which will increase pressure first with the primer gases and secondly with the combustion of the propellant in the chamber. The time factors here are very short and it would be my observation that for the first part of primer combustion that the De Lavel effect would be of value by increasing the particle velocity into the propellant granules. By decreasing the throat diameter and increasing the exit area this can be enhanced, perhaps to the point where the gases bore a hole into the propellant grains before they begin combusting. – Dan Pawlak"

This was pretty heavy stuff. Beyond reshaping the flash hole, they considered inserting cordite rods, painted with a wet mix of priming compound over the De Laval nozzle. The goal was to achieve more uniform ignition top-to-bottom. I don't know if the rod theory ever left paper. Lou Palmisano hinted that had Pawlak not died, the priming rods would've been pursued. That leads me to think it was never attempted. But the idea alone demonstrates their willingness to defy convention.

Lou Palmisano tried to get the gun industry to adopt the PPC. The first inroad was almost forged when Roy Vail showed John Olin, chairman of Winchester's parent company, the .22 and 6mm PPCs. Olin saw their potential and asked Pindell to send him two chambered barrels. Sadly, John Olin passed away shortly thereafter and it is unlikely Winchester worked with either. Palmisano also met with Bill Ruger Sr. in the summer of 1975 and pitched their creation. Ruger was interested and assured Lou they'd offer PPC rifles if and when the round became commercially available. In other words, SAAMI blessed along with factory ammunition. The PPC Corporation even committed to underwrite the start-up cost for anyone willing to load the cartridge. However, that wasn't enough to get the project off the ground. No ammo producer stepped to the plate in the 1970's and that had to be disconcerting.

One representative from a large munitions firm claimed the thirty degree shoulder would be problematic. He estimated a scrap rate of 20% would result from drawing the profile. It seemed like a poor excuse, but that's how the story goes. Then in 1978, Remington unveiled the 6mm BR on their 40XB. It seems the short and fat design was taking root, yet again the PPC was passed over. Unexpectedly, Remington did not produce the brass or loaded ammunition. To feed the new 40XB, one had to form it from their small primer pocket .308. Varminters took to the 6BR more than the competitive set. Benchresters stayed with the PPC on Sako brass, shrinking aggs and breaking records along the way. By 1981, the PPC had consumed short-range BR. Of the 60 shooters who made-up the top 20 in the three classes, all but one shot a PPC. And between the two calibers, 6mm was the perennial favorite. Further evidence of the PPC's success is seen by examining the 179 benchrest records broken between 1975 and 1985. 149 of those were laid with a PPC. If you narrow the time span to 1981 – 1985, all 116 were in PPC chambered rifles.

In the cartridge's first ten years, over one million Sako .220 Russians were imported and sold through the PPC Corporation. Notwithstanding demand, final formed brass and loaded ammunition were not commercially available. Then in 1985, Dr. Henry Cross III requested 10,000 6mm PPC cases. Cross worked with the International Shooters Development Fund (ISDF) and wanted the U.S. Team to evaluate the cartridge. Member were immediately impressed with its performance. They decided to shoot it in the 300-meter Championships of the Americas in 1986 and appointed Lou Palmisano Technical Consultant. Later he was promoted to the Board of Directors of the ISDF. The competition was held at Fort Benning, Georgia in October 1986. Bob Aylward won the 300-meter Free Rifle meet with a 6 PPC. Lones Wigger won the standing 300-meter match shooting the same. The small bore PPC, with an 80 grain flat base bullet, beat the larger, time proven .308 and .30-06. On the heels of that event, Sako flew Palmisano and Pindell to Helsinki. It was time to formally productize the cartridge. The "6mm PPC USA" was born and received a CIP/SAAMI specification. Sako's 6 PPC differs ever so slightly from the wildcat. The shoulder is five minutes sharper and it headspaces off the outer edge (yes, that's minutes not degrees). The base is also one to two thousandths bigger so they won't fit match chambers. Because of these small but significant differences, Lou Palmisano asked Sako to add "USA". In doing so they demarcated the round from competition spec PPC. Sako chambered the USA for a number of years in their Varminter. In 1993, Ruger followed with .22 PPC and 6 PPC No. 1-Vs. The two made it into their Mk II Model 77 in 1994. The Palmisano & Pindell Cartridge finally achieved a degree of mainstream after years of effort and a sizeable investment. Dr. Lou Palmisano eloquently summarized the journey in 1987 by saying:

"It took two guys with a dream to design it. It took the finest, brightest young man I ever knew to test it. It took 4,000 benchresters to prove it. It took two champion U.S. Free Rifle shooter to bring it international fame. And I am grateful to them all"

~Lee Martin

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SAHUARO - MARCH 10, 2018

When was the last time you were disappointed at shooting a 4.8" group? Well, it can be when your four other shots go under an inch and if it wasn't for that one recalcitrant bullet, the fourth one, flying out there another four inches, spoiling a possible world record, that can be a little disappointing. That was the case on my first Light Gun target.

Other than that, it was a great match. Pretty good conditions, fairly light winds of only about 2 MOA left most of the day and a high overcast keeping both the mirage and thermals down. A lot of small groups and high scores were the order of the day.

To start off with Light Gun, competitors shot two 3" groups, four 4", one 5", five 6" and five 7" groups. Out of 33 groups shot in Light Gun, no less than 24 were sub-MOA. Not surprising for this bunch of shooters who consistently perform at a very high level.

The top five shooters in Light Gun had all sub-MOA groups and the top eight had sub-MOA aggregates! Shooters that were second, third and fourth all had 6" aggregates. Super Dave Osborn had a 6.88" and he was fourth! Just ahead of him was Wayne McDonald, third place with a 6.44". Wayne also shot an awesome 3.81" group. Mike Billotte shooting in the afternoon had a very nice 6.31" agg. but was still second to Ross Herrick and his winning 5.43" aggregate. Ross also shot a 3.75" group, just edging out Wayne's 3.81" and winning for smallest single target. What a great bunch of riflemen.

Just like in Group, there were a lot of high scores shot, out of the 33 scores, 26 of them were in the 40's and while it is a little unusual down here in the windy southern Arizona desert to see a 50 score shot, this day we had three of them. Steve Brown had a 50-1X, Mike Billotte shot a 50-2X and Dale Arenson ended up winning high single target with a 50-3X (the same target that had that ugly flyer). That means we had only four targets in the 30's and one DNF.

Mike's total score of 144-3X won the day in Light Gun, just barely beating Wayne McDonald's 143-1X. Nice shooting Mike.

Heavy Gun, while good was not as spectacular in groups. With fewer shooters in the Heavy Class, we still had nine sub-MOA groups shot. Exactly half. Only the top two shooters had not only sub-MOA aggregates but all sub-MOA groups. Super Dave was second with a very respectable 8.65" agg. But Ross Herrick was over an inch smaller with a winning 7.63" 30 shot, three target aggregate. Ross also had the smallest single group with a 6.75". Together with his 7.62" and a 8.5", his groups were extremely consistent.

Scores remained high in Heavy as well. Dave Osborn kept all of his scores in the 90's and posted a 274-1X to take second place, but once again it was, guess who.... Ross Herrick with one of his targets being an impressive 98-4X for the highest single target score and a total of 277-5X to win this months Heavy Gun score.
So it was all over but the shouting, and the moaning! It's alway a little tough to shoot really well and still get beaten. But that's the name of the game. That's how you force yourself to get better, because these guys are all good. Once again our Top Gun, Ross Herrick took three of the four plaques and three of the four "Small Group" and "High Target" tropies. Nice shooting Ross, as usual.

If you care to join us and try to get lucky with some good shooting conditions, we do it every month on the second Saturday, start time 7:00 AM at the Three Points Range 30 miles west of Tucson. You can try your hand against this bunch. Bring the Kleenex though.

~ Dale Arenson

LIGHT GUN

Ross Herrick .....5.44"
Mike Billotte .....6.31"
Wayne McDonald .....6.44"
Dave Osborn .....6.88"
Steve Brown .....7.00"

SMALL GROUP

Ross Herrick .....3.75"

LIGHT GUN TOTAL SCORE

Mike Billotte 144-3x
Wayne McDonald 143-1x
Ross Herrick 142-0x
Dave Osborn 140-2x
Steve Brown 139-1x

HIGH SCORE

Dale Arenson 50-3x

LEFT-RIGHT: Mike Billotte, Ross Herrick, Dale Arenson"

HEAVY GUN

Ross Herrick .....7.63"
Dave Osborn .....8.65"
Dale Arenson .....11.50"
Mike Billotte .....12.83"
John Benz .....13.06"

SMALL GROUP

Ross Herrick ..... 6.75"

HEAVY GUN TOTAL SCORE

Ross Herrick 277-5x
Dave Osborn 274-1x
Dale Arenson 266-2x
Mike Billotte 263-3x
John Benz 258-2x

HIGH SCORE

Ross Herrick 98-4x

CONGRATS WINNERS!

CONGRATS WINNERS!

'Dale 50-3X'
"When a 4" group is disappointing"

Equipment List

Name	Caliber	Action	Barrel	Gunsmith	Stock	Scope	Case	Powder	Bullet
M Billotte	7 Saum	Bat	Krieger	Brackney	Laminate	Nitefor	Rem	H4831	Breger
Herrick (L&H)	30 Patroit	Definance	Krieger	Riesdorff	Tracker	Nitefor	Lazz	H4831	JLK
Arenson	30 Patroit	Rem	Hawk Hill	Harris	McMillian	Nitefor	Lazz	H4831	Berger

2018 NBRSA REGISTERED MATCHES

SOUTHWEST REGION

June 2	HV	100-200	Sloughhouse SR
June 9	LG/HG	1000	Sahauro
June 23-24	VFS/HBR	100-200	Desert Sportsman
June 24	LG/HG	1000	Sloughhouse LR
July 7-8	4 GUN	200	Sloughhouse SR
July 14	LG/HG	1000	Sahauro
July 15	LG/HG	600	Ojai Valley Gun Club
July 22	LG/HG	1000	Sloughhouse LR
July 28-29	VFS/HBR	100-200	Desert Sportsman
Aug 5	HV	100-200	Sloughhouse SR
Aug 11	LG/HG	1000	Sahauro
Aug 25-26	VFS/HBR	100-200	Desert Sportsman
Aug 26	LG/HG	1000	Sloughhouse LR
Sept 8	LG/HG	1000	Sahauro
Sept 16	LG/HG	600	Ojai Valley Gun Club
Sept 22-23	VFS/HBR	100-200	Desert Sportsman
Sept 23	LG/HG	600	Sloughhouse LR
Oct 6-7	LV/HV	100-200	Arizona Benchrest
Oct 6-7	LV/HV	100-200	Sloughhouse SR
Oct 13	LG/HG	1000	Sahauro
Oct 27-28	**VFS/HBR**	**100-200**	**Desert Sportsman** **SW Regional's**
Oct 28	LG/HG	1000	Sloughhouse LR
Nov 3-4	LV/HV	100-200	Sloughhouse SR
Nov 3-4	SP/UL5	100-200	Arizona Benchrest
Nov 10	LG/HG	1000	Sahauro
Nov 18	LG/HG	600	Ojai Valley Gun Club
Nov 25	LG/HG	600	Sloughhouse LR
Dec 1-2	UNL5	100-200	Arizona Benchrest Arizona Invitaionals
Dec 8	LG/HG	1000	Sahauro

SOUTHEAST REGION

July 14-15	LV/HV	100-200	Roanoke Rifle Club Virginia State Champ.
July 28-29	**4-Gun**	**200**	**MGGOA-SE Regional's**
Oct 6-7	4-Gun	100	Roanoke Rifle Club Ted Manning Memorial
Nov 10-11	LV/HV	100-200	River Bend Gun Club Brady Night Memorial

NORTH CENTRAL REGION

June 2-3	UNL/SP	100-200	Prairie Dog Target Club Leg 1 of South Dakota State
June 10	VFS	100-200	Buffalo Rifle Club
*June 16	LV	100-200	Oak Hill Gun Club
June 16-17	LV/HV	100-200	Minnetonka Game & Fish
June 23-24	HTR/VFS	100-200	Boone Valley Izaak Iowa State Score 2-Gun
July 8	HTR	100-200	Buffalo Rifle Club
July 7-8	HV/LV	100-200-300	Prairie Dog Target Club Leg 2 of South Dakota State
*July 15	HV/UNL	100-200	Oak Hill Gun Club
July 21-22	LV/HV	100-200	Minnetonka Game & Fish
*July 28-29	LV/HV	100-200	Boone Valley Izaak Iowa State Group 2-Gun
Aug 9	VFS	100-200	Buffalo Rifle Club
Aug 7-10	**HTR/VFS**	**100-200**	**Boone Valley Izaak** **SR Score National's** **Webster City, IA**
*Aug 18-19	SP/UNL	100-200	Minnetonka Game & Fish
Aug 19	LV	100-200	Oak Hill Gun Club
Aug 25-26	HTR/VFS	100-200-300	Lincoln Izaak Walton
Sept 1-2	LV/HV	100-200	Prairie Dog Target Club South Dakota State-Butch Kimmel Memorial
Sept 8-9	HTR/VFS	100-200	Boone Valley Izaak Iowa State Score 2-Gun
Sept 22-23	LV/HV	100-200	Minnetonka Game & Fish
Sept 30	HV/UNL	100-200	Oak Hill Gun Club

** Shooter Of The Year Matches For NC Region*

MID-CONTINENT REGION

June 9-10	SP/HV	100-200	Northern CO Benchrest
June 16-17	SP/UNL	100-200	Whittington Center Raton NM
July 7-8	**LV/HV**	**100-200**	**Mill Creek Club Group** **Mid-Continent Regional's**
July 14-15	UNL	100-200	Northern CO Benchrest
July 21-22	LV/HV	100-200	Whittington Center
Aug 4-5	LV/HV	100-200	Ouachita Sportsmen's Assn.
Aug 4-5	HTR/VFS	100-200	Northern CO Benchrest
Aug 18-19	LV/HV	100-200	Whittington Center Rattlesnake - WBC Qualifier
Sept 1-2	LV/HV	100-200	Mill Creek Club Kanas State Championship
Sept 8-9	LV/HV	100-200	Northern CO Benchrest 31st Annual Firewalker
Oct 6-7	HTR/VFS	100-200	Mill Creek Club Score Kanas State Championship

2018 NBRSA REGISTERED MATCHES

EASTERN REGION

June 9-10	LV/HV	100-200	Western Wayne CCA Lowell Hottenstein Memorial
June 16-17	LV/HV	100-200	Holton Gun & Bow Club President Cup
June 30-July 1	LV/HV	100-200	Shelby County Bliar Hail Memorial
July 7-8	LV/HV	100-200	Holton Gun & Bow Club Michigan State Champ.
July 21-22	LV/HV	100-200	Kane Fish & Game Club Pennsylvania State Champ.
August 4-5	LV/HV	100-200	Holton Gun & Bow Club Great Lake Invite
Sept 1-2-3	**UNL(10 Shot) LV/HV**	**100-200**	**Holton Gun & Bow Club Eastern Regional's**
Sept 10-15	**4-Gun**	**100-200**	**Holton Gun & Bow Club Group National's WBC Qualifier**
Oct 6-7	LV/HV	100-200	Western Wayne CCA Fall Classic
Oct 20-21	LV/HV	100-200	Shelby County Fall Finals

GULF COAST REGION

June 9-10	UNL/HV	100-200	Seymour, TX-Texas state
June 24	VFS	100-200	Lake Charles- LA State
July 7-8	SP/HV	100-200	Midland, TX-Texas Shoot Out, Gulf Coast Region Sporter
July 22	VFS/HTR	100-200	Lake Charles- VFS & LA State HTR
Aug 4-5	**LV/HV**	**200-300**	**Huntsville, TX NBRSA LR Group National's**
Aug 18	VFS	200-300	Huntsville, TX -Texas State LR
Aug 25-26	LV/HV	100-200	Midland, TX Buffalo Shoot
Sept 1-2	**VFS/HTR**	**200-300**	**Huntsville, TX NBRSA LR Score National's**
Sept 23	**HTR/VFS**	**100-200**	**Lake Charles HTR Gulf Coast Regional's & VFS**
Sept 29-30	**LV/HV**	**100-200**	**Lubbock, TX Cotton Boll, Gulf Coast Regional's**

MISSISSIPPI VALLEY REGION

June 9-10	HTR/VFS	100-200	Holmen State HTR Champ.
June 23-24	LV/HV	00-200	Benchrest Rifle Club of St. Louis East-West-Show-Me Shootout WBC Qualifier
July 7-8	HTR	100-200	Holmen Roy E. Oines Memorial
July 14-15	HTR/VFS	100-200	Benchrest Rifle Club of St. Louis MVR and MO State Champ.
July 28-29	**4-Gun**	**200**	**Benchrest Rifle Club of St. Louis MV Regional's Leg 2**
Aug 26	HTR/VFS	100-200	Benchrest Rifle Club of St. Louis
Sept 30	HTR/VFS	100-200	Benchrest Rifle Club of St. Louis
Oct 13-14	LV/HV	100-200	Benchrest Rifle Club of St. Louis Missouri State Champ.

NORTHWEST REGION

June 2-3	HV/UNL	100-200	Tacoma Rifle & Revolver
June 2-3	VFS/HTR	200-300	Whittecar Rifle Club
June 9-10	VFS/HTR	100-200	North Cascades Sportsman
June 23	HTR	100-200	Tri-Cities Metallic Silhouette
June 24	VFS	100-200	Lewis-Clark Wildlife Club
July 1	HTR	100-200	Whittecar Rifle Range Club
July 6-7-8	UNL	100-200	Tacoma Rifle & Revolver
July 14-15	HTR/VFS	100-200-300	North Cascades Sportsman
July 15	LG/HG	600	Rogue Valley Shooting Sp.
July 28	HTR	100-200	Tri-Cities Metallic Silhouette
July 29	HTR	100-200	Lewis-Clark Wildlife Club
Aug 4-5	SP/LV	100-200	Tacoma Rifle & Revolver
Aug 11-12	VFS	100-200-300	North Cascades Sportsman
Aug 25	VFS	100-200	Tri-Cities Metallic Silhouette
Sept 2	LG/HG	600	Rogue Valley Shooting Sp.
Sept 1-2-3	SP/LV/HV	100-200	Tacoma Rifle & Revolver
Sept 8-9	HTR	100-200-300	North Cascades Sportsman
Sept 22	VFS	100-200	Tri-Cities Metallic Silhouette
Sept 30	LG/HG	600	Tri-County Gun Club
Oct 6-7	LG/HG	600	Rogue Valley Shooting Sp.
Oct 13-14	LG/HG	1000	Rogue Valley Shooting Sp.
Oct 28	LG/HG	600	Tri-County Gun Club

THE SHAMROCK - MARCH 24, 2018

The weather in Dublin Georgia in March is unpredictable. However, it usually involves lots of wind and rain. The Wednesday before the shoot was so windy that no one bothered practicing. When Saturday came along it was dead calm until 10:30am. 85 shooters attended Shamrock Shoot XVII. This is 20 more than we have had in the last few years. Being a World Qualifier match brought many down from Canada.

Wayne Campbell dominated at 100 yards with an LV100 agg of .1666 and a HV100 agg of .1834. In the LV100 Craig Rowe placed second with a .1954 and Billy Stevens was third with a .1960. Billy also got the smallest LV100 group at .080". The groups started to open up in the afternoon for the HV100. Paul Mitchell was second with a .1944 and Scott Mims' agg was .1982. Scott had the HV100 small group at .097".

Sunday was overcast and cold the entire day. The winds were faster; but, there wasn't any mirage.

Wayne apparently decided to let some other folks place first and second. Sunday morning saw Bob Hammack place first in HV200 with the smallest group (.143) and a .1832 agg. Gary Sullivan was second with .2117. And Wayne Campbell came in third with .2263. The afternoon had bigger aggregates for most shooters. LV200 was won by Billy Stevens with a .2079. Robert Seemann placed second with a .2268 agg. He also won small group with .215" shot in the first match. Wayne Campbell placed third with a .2297 agg.

The light gun and heavy gun had two very different groups of people in the top 10. Interestingly Wayne Campbell placed first in both and George Pariso placed sixth in both. So, for the Light grand Wayne Campbell had an agg of .1981 and in second place was Billy Stevens with .2019 and third place was Hugh Williamson with .2286. the heavy grand had Wayne Campbell at .2049 paul Mitchell with a .2247 and Gary Sullivan with .2283.

In the two gun Wayne placed first with a .2015 agg. Paul Mitchell was second with a .2388 agg. Paul placed 8th in the LV grand but moved ahead by placing 2nd In the HV grand. Even placing 6th in both LV and HV grands, George Pariso came in 3rd place with a .2416 agg. Billy Stevens was 4th with .2464 and Hugh Williamson was 5th with .2470.

LV 100 YARDS

Wayne Campbell	1666
Craig Rowe	1954
Billy Stevens	1960
Harley Baker	1978
Donald Rosette	1988

SMALL GROUP

Billy Stevens 0.080

Wayne Campbell

LV 200 YARDS

Billy Stevens	2079
Robert Seemann	2268
Wayne Campbell	2297
Dana English	2432
Jack Neary	2433

SMALL GROUP

Robert Seemann 0.215

Billy Stevens

HV 100 YARDS

Wayne Campbell 1834
Paul Mitchell 1944
Scott Mims 1982
Al Auman Sr 2070
Jeff Graves 2114

SMALL GROUP

SCOTT MIMS 0.097

LV GRAND

Wayne Campbell 1982
Billy Stevens 2020
Hugh Williamson 2286
Robert Seemann 2329
Craig Rowe 2382

HV 200 YARDS

Bob Hammack 1832
Gary Sullivan 2117
Wayne Campbell 2263
Bob Hamister 2404
George Pariso 2431

SMALL GROUP

Bob Hammack 0.143

HV GRAND

Wayne Campbell 2049
Paul Mitchell 2247
Gary Sullivan 2284
Al Auman Sr 2323
Jeff Graves 2412

Bob Hammack

Wayne Campbell

Andy Shifflett put a "bounty" on Wayne Campbell. Anybody who could win the 2 gun, Andy was willing to pay a $100.

Wayne Campbell and Andy Shifflett

Wayne sent him Packing" with his $100 in hand! Wayne finish 1st

Two Gun

Wayne Campbell 2015
Paul Mitchell 2388
George Pariso 2416
Billy Stevens 2464
Hugh Williamson 2470
Al Auman Sr 2488
Gary Sullivan 2602
Jeff Graves 2626
Bob Scarbrough Jr 2667
Harley Baker 2676

LV - EQUIPMENT LIST

	Caliber	Action	Barrel	Trigger	Gunsmith	Stock	Stocker	Scope	Bullet	Powder	Primer	Case
Wayne Campbell	6 PPC	BAT	Bartlein	B&A	Self	Scarbro	Self	Nightfor	WC	V133	CCI	Lapua
Billy Stevens	6 PPC	CST	Bartlein	Jewell	Stevens	Scarbro	Stevens	Valdata	Bart	V133	205M	Lapua
Hugh Wiliamson	6 PPC	BAT	HWP	B&A	Campb	Scarbro	Campb	40X	68	V133	CCI	Lapua
Robert Seemann	6 PPC	BAT	HWP	B&A	Campb	Scarbro	Campb	March	Self	V133	205M	Lapua
Craig Rowe	6 PPC	BAT	Kreiger	B&A	Miller	R. Hunter	Goodling	Nightfor	Self	V133	205M	Lapua
George Pariso	6 PPC	BAT	Bartlein	Jewell	Burby	N/A	Burby	March	Nemi	8208	205M	Lapua
Jack Neary	6 PPC	BAT	Bartlein	B&A	Campb	Scoville	Campb	Leopold	Peinh	V133	205M	Lapua
Paul Mitchell	6 PPC	BAT	Krieger	B&A	Self	Scarbro	Scarbro	Valdata	Self	LT32	205M	Lapua
Steve Turner	6 PPC	BAT	Krieger	B&A	Scott	Scarbro	Scarbro	Nightfor	ST	V133	205M	Lapua
John Horn	6 PPC	BAT	Krieger	Jewell	Self	Scarbro	Scarbro	Nightfor	Miller	V133	205M	Lapua

HV - EQUIPMENT LIST

	Caliber	Action	Barrel	Trigger	Gunsmith	Stock	Stocker	Scope	Bullet	Powder	Primer	Case
Wayne Campbell	6 PPC	BAT	Bartlein	B&A	Self	Scarbro	Self	Nightfor	WC	V133	CCI	Lapua
Paul Mitchell	6 PPC	BAT	Krieger	B&A	Self	Scarbro	Scarbro	Val	Self	LT32	205M	Lapua
Gary Sullivan	6 PPC	BAT	Krieger	Jewell	Stevens	Scarbro	N/A	March	Barts	V133	205M	Lapua
Al Auman	6 PPC	BAT	Krieger	Jewell	Goodling	McMillon	Goodling	Leopold	BT	LT32	205M	Russ
Jeff Graves	6 PPC	BAT	Bartlein	B&A	Stevens	Scarbro	Scarbro	Val	66Br	LT32	205M	Lapua
George Pariso	6 PPC	BAT	Bartlein	Jewell	Burney	Burby	Burby	March	Nemi	8208	205M	Lapua
Bob Hammack	6 PPC	BAT	Bartlein	Jewell	Stevens	Scarbro	Scarbro	March	Miller	V133	205M	Lapua
Andy Shifflett	6 PPC	BAT	Bartlein	B&A	Campb	Scarbro	Self	Leopold	JD	LT32	205M	Lapua
Lee Hachigan	6 PPC	Neuvo	Krieger	B&A	Scott	Scarbro	Scarbro	Weaver	Hott	V-133	205M	Lapua
Mark Engle	6 PPC	BAT	Bartlein	Jewell	D.Bruno	Scoville	Scoville	March	Gener	V133	205M	Lapua

CRAWFISH INVITATIONAL'S - FEBRUARY 24, 2018

LV 100 YARDS

Gary Bristow	2754
Gene Bukys	2812
Jackie Schmidt	2850
Larry Saavedra	3440
Mike Elliot	3460

LV 200 YARDS

Gary Bristow	1734
Gene Bukys	2793
Renard Alrexarder	2830
Larry Saavedra	2998
Mike Elliot	3246

LV GRAND

Gary Bristow	2244
Gene Bukys	2803
Jackie Schmidt	3133
Larry Saavedra	3219
Mike Elliott	3353

HV 100 YARDS

Tim Oltersdorf	2124
Gene Bukys	2318
Jackie Schmidt	2510
James Moore	2582
Mike Elliot	2634

HV 200 YARDS

Gary Bristow	2456
Gene Bukys	2929
Jackie Schmidt	3206
Tim Oltersdorf	3267
Gary Walters	3638

HV GRAND

Gary Bristow	2592
Gene Bukys	2624
Tim Oltersdorf	2696
Jackie Schmidt	2858
Gary Walters	3302

Gary Bristow

2 GUN

Gary Bristow	2418
Gene Bukys	2713
Jackie Schmidt	2995
Tim Oltersdorf	3233
Gary Walters	3723
Larry Saavedra	3753
Ron Sewell	3958
Tommy Long	3968
Mike Elliot	4202
Dikie Pusterjovsky	4245

Congratulations GARY BRISTOW high five

LV - EQUIPMENT LIST

Name	Cal	Action	Barrel	Smith	Stock	Stocker	Scope	Powder	Primer	Case	Bullet
Gary Bristow	6PPC	BAT	N/A	Bristow	N/A	N/A	Leupold	V133	205M	Lapua	BT
Gene Bukys	6PPC	BAT	Bartlein	Bukys	Scoville	Scoville	Leupold	58	205M	Lapua	Bukys
Jackie Schmidt	6PPC	Farley	Krieger	Self	Robertson	Self	March	V133	205M	Lapua	Watson
Tim Ostersford	6PPC	BAT	Krieger	Self	Robertson	Bypne	March	N/A	205M	Lapua	Miller
Gary Walters	6PPC	Panda	Krieger	Dale H	BRX	Stick	March	V133	205M	Lapua	Barts
Larry Saavedra	6PPC	BAT	Krieger	Scott	Scarbro	N/A	Leupold	V133	205M	N/A	Barts
Ron Sewell	6PPC	BAT	Krieger	N/A	N/A	N/A	N/A	V133	N/A	N/A	N/A
Tommy Long	6PPC	BAT	Bartleim	Bristow	N/A	Wilson	March	V133	205M	Lapua	Cheek
Mike Elliott	6PPC	Farley	Bartlien	Bukys	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dickie Pustejovsky	6PPC	RFD	Shilen	Horn	Borden	Self	Leupold	V133	205M	Lapua	Knight

HV - EQUIPMENT LIST

Name	Cal	Action	Barrel	Smith	Stock	Stocker	Scope	Powder	Primer	Case	Bullet
Gary Bristow	6PPC	BAT	N/A	Bristow	N/A	N/A	Leupold	V133	205M	Lapua	BT
Gene Bukys	6PPC	BAT	Bartlein	Bukys	Scoville	Scoville	Leupold	58	205M	Lapua	Bukys
Jackie Schmidt	6PPC	Farley	Krieger	Self	Robertson	Self	March	V133	205M	Lapua	Watso
Tim Ostersford	6PPC	Polar	Bartlein	Self	Adamaykh	N/A	Leupold	13.5	205M	Lapua	Miller
Gary Walters	6PPC	Panda	Krieger	Dale H	BRX	Speedy	March	V133	205M	Lapua	Barts
Larry Saavedra	N/A	BAT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ron Sewell	6PPC	BAT	Krieger	N/A	N/A	N/A	N/A	V133	N/A	N/A	N/A
Tommy Long	6PPC	BAT	Krieger	Bristow	N/A	Wilson	March	V133	205M	Lapua	Cheek
Mike Elliott	6PPC	BAT	Bartlein	Self	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dickie Pustejovsky	6PPC	BAT	Shilen	Horn	Borden	Self	Nightfor	V133	205M	Lapua	Generic

Election Time Is Near!

Members of the Following Regions:

*Eastern

*Mississippi Valley

*Southeast

*Southwest

*European

Now is your time to exercise one of our most precious American traditions…your right to vote. For those members who are not US Citizens but still full members, you too can participate. Nominations are now finalized for your Directors/Alternate Directors and ballots will be mailed to all members on or before June 1, 2018. They must be received back in the Business Office by July 1, 2018. Make your vote count!

SPORTSMAN VFS/HUNTER - MARCH 24, 2018

VFS

What a day started off a little windy, by the second yardage the wind was gusting over 35mph, wind flags were falling over, things were blowing off the bench's and some were talking to themselves trying to figure out what to do next. Next month will be better. Hope to see the old shooters and some new shooters.

Thanks to the guys from Utah for coming to our match and for bring me lunch.
Howard Match Director

VFS 100 YARDS

John Ames 250-17x
Joel Nader 250-17x
Stan LaPointe 249-11x
Dave Blazza 248-13x
Wayne Christian 248-12x
Ron Orton 246-07x

VFS 200 YARDS

John Ames 247-04x
Joel Nader 243-02x
Dave Blazza 238-03x
Wayne Christian 235-03x
Ron Orton 230-03x
Stan LaPointe 230-01x

VFS GRAND

John Ames 497-21x
Joel Nader 493-19x
Dave Blazza 486-16x
Wayne Christian 483-15x
Stan LaPointe 479-12x
Ron Orton 476-10x

HUNTER

Today was much better than yesterday. You can never tell what the weather is going to be here. Nice shooting Sheldon and welcome back it's been over a year, that's great to come back with a 250-14x, looks like you haven't lost your touch.

Hope to see you next month.
Howard Match Director

HUNTER 100 YARDS

Sheldon Turf 250-14x
Dave Reymore 249-11x
Ron Orton 248-09x
Pete Savage 247-07x
Stan LaPointe 243-03x

HUNTER 200 YARDS

Dave Reymore 245-03x
Stan LaPointe 242-05x
Pete Savage 229-02x
Ron Orton 228-02x
Sheldon Turf .....DNF

HUNTER GRAND

Dave Reymore 494-14x
Stan LaPointe 485-08x
Ron Orton 476-11x
Pete Savage 476-09x
Sheldon Turf 250-14x

QUOTE of the MONTH

"WHEN YOU WANT TO SUCCEED AS BAD AS YOU WANT TO BREATHE, THEN YOU'LL BE SUCCESSFUL."

Eric Thomas

ATTENTION READERS

Up-date from the edtor:

I'm pleased to announce, I have only a couple of match results from 2017 season to place in the magazine.

The 2018 match results that have been submitted, have been in the proper format as requested. I want to THANK everyone for taking the time in putting them in the proper format. Steve Lee and I have worked with several clubs and are very pleased with the results. Any clubs struggling with this format, ***excel or word document****, please feel free to contact Steve Lee or I and we will assist you.*

For the few clubs that are still having issues with the format requested, please remember, for prompt placement, numeric order and first name first/last name last is important.

Any question or input don't hesitate to call or e-mail Steve or I.

Thank you everyone :)

Editor and Chief,
Nancy Scarbrough

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BUILDING JOHNSTOWN PA. IN 1947

Pictures of Pine Tree Gun Club being constructed in Johnstown, PA. Many of the early NBRSA matches were held here.

There are two time periods depicted. "Building Johnstown" are the actual range clearing from 1947.

The clubhouse photos show the structure that came later, circa 1955.

~Lee Martin

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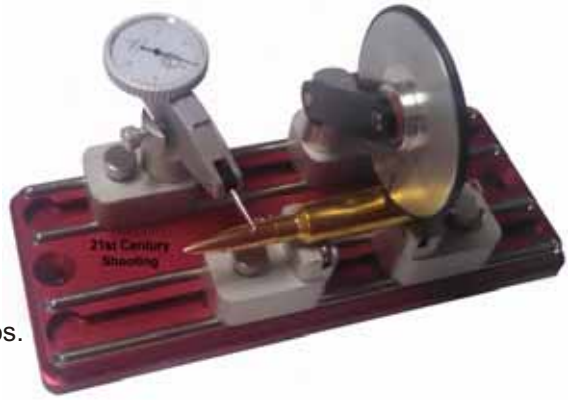

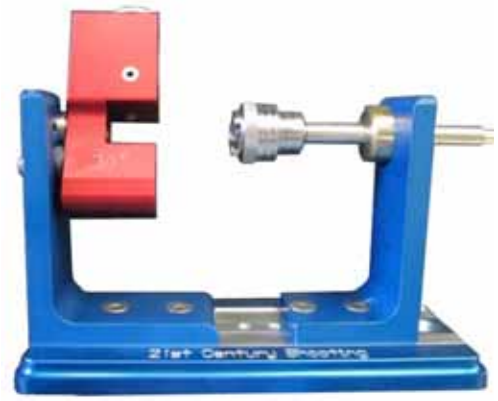

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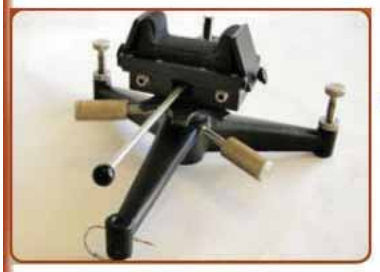

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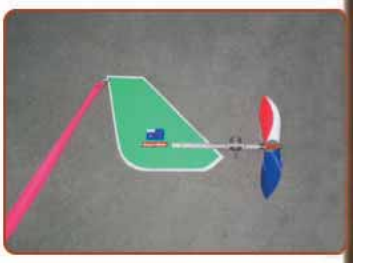

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Ranges, Clubs, and Contacts

ER—EASTERN REGION

Chippewa Rifle Club
GPS: N40 56.820 W81 44.583
Range does NOT have address Hinckley, OH. 44233
chippewarifleclub@gmail.com
Contact: Paul Weihe Phone: 330-592-3260
Email: paul.weihe@yahoo.com
Contact: Bob Abbott Phone: 330-225-1097

Fairchance Rod & Gun Club
102 Hitters Delight Rd. Smithfield, PA. 15478
GPS: N39 48.704 W79 47.179
Contact: Nestor Hernandez
Phone: 412-742-2427
Email: hernanfairchancerg@gmail.com
Contact: Jerry Van Sickle
Phone: 724-569-2216

Fairfield Sportsmen Club
6501 River Rd. Harrison, OH. 45030
Contact: Richard Browning
Phone: 513-738-0004

Holton Gun & Bow Club
6201 Crystal Lake Rd. Holton, MI. 49425
GPS: N43 23.742 W86 05.2566
PO Box 128
holtongunandbowclub.com
Contact: Nancy Scarbrough
231-519-2822
Email: nancyjojs@yahoo.com

Kane Fish & Game
RR 2 Kane, PA. 16735
PO Box 621
kanefishandgameclub.org
Contact: Steve Timpano
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Shelby Cnty Deer Hunter Assn
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WWCCA
6700 Napier Rd. Plymouth, MI. 48170
http://wwcca.com
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Email: danaraven@yahoo.com
Contact: Bill Gammon Phone: 519-453-6734
Email: Bill.gammon@rogers.com

GC—GULF COAST REGION

Hill Country Shooters Assn
GPS: N29 44.695 W098 14.141
421 Range Rd. New Braunfels, TX. 78132
Contact: Cody Engel Phone: 210-535-2170
Email: codyvp@satx.rr.com

Midland Shooters Association
4108 East County Rd. 160 Midland, TX. 79706
Phone: 432-682-2332
www.midlandshooters.com
Contact: Mike Conry
Phone: 432-528-8718 / 432 683-1332
MEConry@suddenlink.net

Seymour Stool Shooters
448 Hwy 283 South Seymour, TX.
Contact: John Horn Phone: 940-636-9984
John.Horn44@gmail.com

SW Louisiana Rifle & Pistol Club
1880 E. Gauthier Road Lake Charles, LA. 70607
Contacct: Larry Tilley Phone: 337-570-6523
landjtilley@yahoo.com

Tomball Gun Club
12600 Zion Rd. Tomball, TX. 77377
PO Box 317
TGCWebsite.com
Contact: Dwayne Pullum Phone: 281-684-9004
Contact: Richard Pullum
Email: richardpullum@embarqmail.com

Walker County Benchrest Club
223A Notch Rd. Huntsville, TX. 77340
GPS:30°45.662N; 95°46.136W
www.walkercobr.com
Contact: Larry Deese Phone: 713-410-5233
larry@walkercobr.com

Llano Estacado Shooters Assn
9 miles S of Wolfforth, Lubbock, TX. 79424
Llano Estacado Shooters - Facebook
Contact: Kelly Morman
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Email: ksmorman@outlook.com

NC—NORTH CENTRAL REGION

Boone Valley Ikes
2944 Fenton Ave. Webster City, IA. 50595
Contact: Ronnie Berg Phone: 515-210-7772
Email: mrberg@iowatelecom.net

Buffalo Outdoor Rifle Club
GPS: Lat/Long 44.333495-106.793740
Range does NOT have address Buffalo, WY. 82834
Contact: Pete Eisele Phone: 307-217-1155

Lincoln Izaak Walton League
10801 S 134th St. Bennet, NE. 68317
Contact: Mike Shapoval Phone: 402-420-5763
Email: mike10shapoval@windstream.net

Minnetonka Benchrest Assn
8310 Hill N Dale Dr. St. Francis, MN. 55330
www.mgfc.org
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Oak Hill Gun Club
12364 Coon Hunters Rd. Blue Grass, IA. 52726
www.oakhillgunclubinc.com
Phone: 563-381-2677
Contact: Jim Schmidt Phone: 563-340-4789
Email: jjwonderland325@gmail.com

Prairie Dog Target Club
287 County Rd. 6 Porcupine, SD. 57772
Email: pdtc57772@yahoo.com
Contact: Don Deckert Phone: 605-288-1919

NW—NORTHWEST

Rogue Valley Shooting Sports Assn
6900 Kershaw Blvd. White City, OR. 97535
Contact: Phil Grammatica Phone: 714-749-7216
Email: philgrammatica@yahoo.com

Lewis-Clark Wildlife Club
27007 South Tom Beall Rd. Lapwai, ID. 83540
Phone: 280-843-2987
www.lcwildlife.org
Contact: Paul Gylling (HTR/VFS)
Phone: 509-553-1118
Email: PGylling@gmail.com

Whittecar Rifle & Pistol Range
578 Blodgett View Dr. Hamilton, MT. 59840
Phone: 406-363-7078
www.whittecarrange.com
Contact: Jeff Jetter Phone: 406-777-5326

North Cascades Sportsman's Club
PO Box 1721 Chelan, WA. 98816
www.chelangunclub.com
Contact: Wally Juneau 509-668-7336
Email: ifish2@nwi.net

Ranges, Clubs, and Contacts

Tacoma Rifle & Revolver Club
8503 Chambers Creek Rd.
W University Place, WA. 98467
www.tacomarifle.org
Contact: Jeff Lewis Phone: 206-407-8299
E-mail: varminthunter1@comcast.net

Tri-Cities Metallic Silhouette
Hwy 12 to Pasco-Kahlotus Rd. Pasco, WA. 99301
www.tcmsa.org
Contact: Bob Birney Phone: 509-531-6151
Email: rebirney@gmailcom

Tri-County Gun Club
13050 SW Tonquin Rd, Sherwood, OR. 97140
Contact: Fred Dobson Phone: 503-358-2643
Email: fdobson3@gmail.com

Yellowstone Rifle Club
7212 Molt Rd, Billings, MT. 59106
Phone: 406-656-2775
www.yrc.org
Contact: Ryan Lienemann Phone: 4062454056
Email: lienemannbr@gmail.com

MV-MISSISSIPPI VALLEY

Bench Rest Rifle Club Of St Louis
2280 Kohn Rd, Wright City, MO. 63390
GPS: N38 53.353 W091 04.763
www.shootingstl.com
Contact: Scott Pieper (Group)
Phone: 636-745-2454
Email: old4and1@gmail.com
Contact; Wayne Corley (Score)
Phone: 636-284-4938
Email: waynecorley@sbcglobal.net

Holmen Rod & Gun Club
W7503 Cnty Road T, Holmen, WI. 54636
www.holmenrodandgunclub.com
Contact: Craig Nagel Phone: 608 783-5522

SE—SOUTHEAST REGION

Middle Georgia Gun Owners Assn
PO Box 4096 Dublin, GA. 31040
GPS: N32 24.3732 W82 53.0574
www.mggoa.com
Contact: Matt Walker
Phone: 478-304-2749
Email: mggoa1@gmail.com

River Bend Gun Club
588 River Bend Gun Club Rd. Dawsonville, GA. 30534
GPS: N34 20.198 W84 14.819
Phone: 770-893-3502
www.rbgc.org
Contact: Jim Andress Phone: 770-876-2351
Email: jim@precisionrifles.co
Email: benchrest@rbgc.org

Roanoke Rifle & Revolver Club
1305 Gun Club Dr. Hardy, VA. 24101
www.roanokerifle.com
Contact: Gil Gross Phone: 276-634-0082
Email: gilgrosscms@embarqmail.com

MC—MID CONTINENT REGION

Land's End Benchrest Shooters
3520 Reeder Mesa Rd. Whitewater, CO. 81527
Contact: Tom Stiner Phone: 970-257-9160
Email: tstooling@hotmail.com

Mill Creek Rifle Club
7215 Gardner Rd. DeSoto, KS. 66018
www.millcreekrc.org
Contact: Don Creach (Group)
Phone: 816-586-9475
Email: dcjcreach@aol.com
Contact: Howard Cowher (VFS)
Phone: 913-287-7677
Email: hcowher@kc.rr.com

Northern CO Benchrest Shooters
38967 CR 51 Eaton, CO. 80615
Contact: Bud Schalles
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Email: budschalles@aol.com

Okie Shooters Range
107 N Main St Apt B Tonkawa, OK. 74653
Contact: John Dumas Phone: 580-670-1996
Email: jack.dumas@aol.com

Ouachita Sportsmen's Assn
278 Maquire Ln. Pencil Bluff, AR. 71965
Contact: Ray Porter Phone: 870-633-8984

Whittington Center
34025 US 64 Raton, NM. 87740
Phone: 575-445-3615
www.nrawc.org
Contact: Mark Motsko
Phone: 505-850-7375
Email: Motsko813@gmail.com

SW—SOUTHWEST REGION

Arizona Benchrest Shooters
4044 W Black Canyon Blvd. Phoenix, AZ. 85086
GPS: N33 27 12.22 W112 37 12.20
Email: azbrs.com
Contact: Ryan Neal
Phone: 480-240-6792
Email: RNeal@CapstonePG.com

GPS: N33 27 12.22 W112 37 12.20
Email: azbrs.com
Contact: Ryan Neal
Phone: 480-240-6792
Email: RNeal@CapstonePG.com

Central Utah Benchrest
377 E 300 S Springville, UT. 84663
Contact: Dave Tunbridge
Phone: 801-571-6755
Email: drtunbridge@gmail.com

Desert Sportsman Rifle Club
12201 W Charleston Blvd. Las Vegas, NV. 89135
GPS: N36.1498 W115.3653
www.dsrpc.net
Contact: Howard Bloom-HTR/VFS
Email: 1964.usmc@att.net
Phone: 702-368-0568

Ojai Valley Gun Club
7343 Rose Valley Rd. Ojai, CA. 93023
www.dock.net/ovgc
Contact: Barry Bluhm Phone: 805-798-2473
Email: TwiLiteZ585@hotmail.com

Palomino Valley Gun Club
2155 Pyramid Lake Hwy Reno, NV. 89502
GPS: N39 51.374 W119 40.046
Email: palominovalleygunclub.homestead.com
Contact: Robert Hoppe (Long Range)
Phone: 775-827-8679 / 775-397-3358
Email: RobH@saturnnet.com
Contact: Steve Archibald (Varmint)
Phone: 775-742-1153
Email: nevadaswa@aol.com

Sahuaro 1000-Yard Benchrest
18300 W Ajo Hwy. Tucson, AZ. 85735
www.tucsonrifleclub.org
Contact:: Karl Hunstiger Phone: 602-971-4400
Email: wfo13@aol.com

Sloughhouse Benchrest Shooters
15501 Meiss Rd. Sacramento, CA. 95683
www.cabenchrest@gmail.com
Contact: John McGaughey (Long Range)
Phone: 209-772-0392
Contact: Dan Lutke (Short Range)
Phone: 408-241-9759
Email: lutke5@sbcglobal.net

Tehama Shooters Association
Unnamed Rd. Red Bluff, CA. 96080
www.tehamashooters.com
Contact: Richard Heinsohn
Phone: 530-339-1287
Email: voyager658@yahoo.com

Visalia Sportsman Association
7398 Ave 328, Visalia, CA. 93291
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