# PRECISION RIFLEMAN

MAY 2018

The Voice of the NBRSA

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Manufacturers of Precision Single-Point Cut Rifled Barrels

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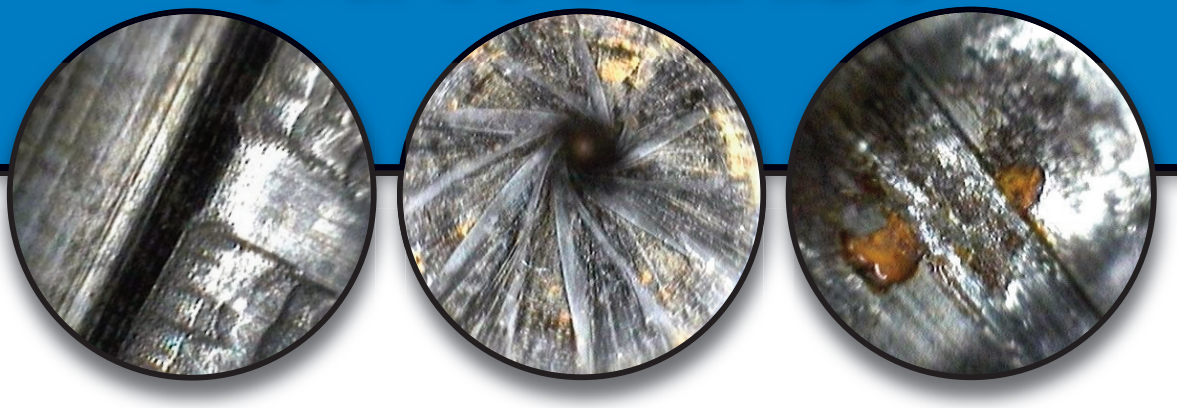

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*Designed, made and sold by precision shooters!*
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# BRUNO SHOOTERS SUPPLY

Visit our website at www.brunoshooters.com

1-800-455-0350

**Prices subject to change without notice!!!!**

## Cleaning Supplies

### SOLVENTS

SHOOTERS CHOICE #7
- 12oz Aerosol ..... $10.95
- 16oz ..... $19.95
- Gallon Can ..... $66.95

HOPPES
- #9 4oz ..... $5.95
- #9 16oz ..... $11.95
- #9 32oz ..... $18.95

BORE TECH
- Eliminator, Carbon/Copper Remover, etc 16oz. $21.95
- Eliminator, Carbon/Copper Remover, etc 4oz... $11.95

KROIL
- 8oz Can ..... $10.95
- 10oz Aerosol ..... $13.95
- 13oz Aerosol ..... $16.95
- 16.5oz Aerosol ..... $18.95
- Gallon Can ..... $69.95

Leak Proof Solvent Bottles 2oz ..... $4.50;
Leak Proof Solvent Bottles 4oz ..... $5.50
Iosso ..... $5.91
Sweets 7.62 200ml ..... $9.95
Butch's Bore Shine 16oz ..... $21.95
JB Genuine (Original) Bore Cleaning Compound $10.69
JB Bore Bright Bore Finishing Compound ..... $9.56

### BRUSHES

Bruno Rifle Bronze Brushes ..... $10.95/doz
(22 cal, 6mm, 6.5 cal, 25 cal, 270 cal, 7mm, 30 cal, 338 cal, 35 cal, 375 cal, 8mm)
Bruno Rifle Nylon Brushes ..... $16.15/doz
(22 cal, 6mm, 6.5 cal, 7mm, 30 cal, 338 cal, 50 cal)
Bruno Pistol Brushes ..... $10.95/doz
(22 cal, 9mm, 38 cal, 40 cal, 44 cal, 45 cal)
Bruno Rifle Bronze Brushes ..... $17.50/doz
(17 cal, 20 cal)
Bore Tech Nylon Brushes ..... $5.50/3pk
(All calibers)
Bore Tech Bronze/Brass Brushes ..... $5.50/3pk
(All calibers)

### BORE MOPS

22 Cal, 6mm, 6.5 cal ..... $11.00/doz
Chamber Mops ..... $6.00/6pk

### CLEANING RODS AND JAGS

Bore Tech Cleaning Rods 36" and 44" ..... $39.95
Bore Tech Jags ..... $7.95
Dewey Cleaning Rods 36" and 44" ..... $39.95
Dewey Jags ..... $4.95
Dewey Adapters ..... $3.95
21st Century Nylon Jags ..... $12.99

### BORE GUIDES

AR-15 and AR-10 ..... $22.95
Standard Bore Guides With O-Ring Specify Cal . $15.95
Bore Guides With Built-In Solvent Ports ..... $17.95

### BORE TECH COTTON FLANNEL PATCHES – 1,000 ct

¾", 1", 1 1/8", 1 ¼" ..... $12.95
1 3/8", 1 ½", 1 ¾" ..... $15.95
2" and 3" ..... $16.95
2 ¼", 2 ½", 2 ¾", 3 ½" ..... $22.95

## Rifle Building Components

### ACTIONS

**Bat** ..... CALL OR SEE WEB FOR PRICING
**Kelbly** ..... CALL OR SEE WEB FOR PRICING
**Remington** ..... CALL OR SEE WEB FOR PRICING

### BARRELS

**KRIEGER** RIFLE BARRELS. OVER 1,000 IN STOCK. PLEASE CALL OR VISIT OUR WEBSITE. BACKORDERS ACCEPTED.

### TRIGGERS – ALL FREE SHIPPING

#### JEWELL

BR with no options 1.5oz-3.0oz ..... $176.00
BR with Bolt Release 1.5oz-3.0oz ..... $187.00
BR Long Shoe 1.5oz-3.0oz ..... $181.50
HVR with no options, 1.5oz-4.5lbs ..... $176.00
HVR with Bolt Release ..... $187.00
HVR with Top Right Safety and Bolt Release ... $214.50
HVR with Bottom Safety and Bolt Release ..... $214.50
HVR with Top Left Safety and Bolt Release ..... $236.50
HVR, no options for Model 7 or XR-100 only .... $187.00
HVR with Top Right Safety and Bolt Release Model 7 or XR-100 only ..... $214.50
HVR with Bottom Safety NO bolt release ..... $203.50
HVR with Top Right Safety NO bolt release ..... $203.50
HVR with Top Left Safety NO bolt release ..... $225.50
Model 70 Winchester Only Trigger ..... $225.50

#### SHILEN – SUPER SALE

Remington 700 Competition Stainless 2oz-6oz. $159.95

#### TIMNEY

**Coming soon – Timney/Bruno 2oz BR Trigger**

AR 15 Small Pin, Skeletonized, Yellow ..... $242.24
AR 15 Small Pin, Solid, Yellow ..... $190.32
Mosin Nagant With Safety, Red, 1.5-3lbs ..... $89.94
Rem 700, 721, 722 with Safety, Black, 1.5-4lbs $116.77
Timney Triggers for Remington 700's, Right Hand:
With Safety, Nickel Plated 1.5-4lbs ..... $125.42
Straight with Safety, Black 1.5-4lbs ..... $116.77
Calvin Elite, with Safety, Yellow 8oz-2.5lbs ..... $181.67
Curved with Safety, Nickel Plated THIN1.5-4lbs $125.42

### SCOPES

#### NIGHTFORCE

Competition 15-55x52mm ..... $2,352.00
Competition Fixed 42x44 ..... $1,742.00
Benchrest 8-32x56mm ..... $1,286.00
Benchrest 12-42x56mm ..... $1,428.00
ATACR Models ..... $2,399.00-$3,298.00
B.E.A.S.T. Models ..... $3,977.00-$4,268.00
NXS Models ..... $1,329.00-$2,125.00
SHV Models ..... $873.00-$1,299.00

#### LEUPOLD

Competition 45 Power Xhair with dot ..... $974.95
Competition 45 Power Xhair only ..... $899.95
Competition 35 Power Xhair only ..... $799.95

#### WEAVER

Target XR - 46x48mm Xhair with dot ..... $799.95
Target XR - 46x48mm Xhair only ..... $799.95
Target XR - 36x40mm Xhair only - Silver ..... $595.00
Target XR - 36x40mm Xhair with 1/16 MOA dot $590.95
Target XR - 36x40mm Xhair with 1/8 MOA dot . $590.95

**WANTED - Any used Nightforce**
**WANTED – Competition Leupold**

### MCMILLAN STOCKS

Benchrest: Bruno/McMillan LV/HV Graphite
Basic Inlet Benchrest or Rem Tang ..... $451.00
McMillan Edge Graphite LV Basic Inlet ..... $451.00
F-Class, A-2, A-3, A-5 ..... $390.00
Clamp Bar Cheekpiece ..... Add $128.00
Decelerator Pad ..... Add $125.00
**All other McMillan stocks available. See website or call**

### L.E.WILSON

Standard Bullet Seaters ..... $42.00
Stainless Steel Micrometer Top Bullet Seater ..... $78.00
Neck Size Die (Less Bushing) ..... $25.74-$39.60
Stainless Steel Neck Die (Less Bushing) ..... $46.80
Wilson Steel Bushing ..... $14.00
Redding Steel Bushing ..... $15.95
Redding Titanium Nitride Bushings ..... $25.95
**See website for full line of Wilson dies**

### 21ST CENTURY SHOOTING

Shellholders ..... $7.75
Cleaning Jags ..... $12.99
Titanium Nitrate Neck Turning Arbors ..... $18.20
Titanium Nitrate Expander Mandrels ..... $18.20
Sandbag Filler ..... $25.75
Case Holders ..... $28.40
Expander Die Body With Ring ..... $28.75
Carbide Cutters ..... $33.50
Barrel Vise ..... $53.95
Tube Micrometer ..... $60.50
Stainless Steel Priming Tool (Less Shellholder) $101.25
Stainless Steel Super Precision Click Head Priming Tool (Less Shellholder) ..... $115.20
Neck Turning Tool Kit ..... $129.99
Concentricity Gauge W/ Dial Indicator & Wheel $224.95
Neck Turning Lathe (Less Arbor) ..... $239.99

### K&M

Shell Holders ..... $2.73
Flash Hole Uniformer ..... $7.74
Expander Mandrels ..... $10.01
Steel Neck Turning Mandrels ..... $10.01
Replacement Cutters ..... $10.92
Expander Die With Mandrel ..... $17.94
Carbide Non-Cutting Pilots ..... $36.36
Neck Turner Body Only with Standard Pilot ..... $47.30
Neck Turner Complete With Steel Mandrel ..... $67.34
Neck Turner Body Only w/ Carbide Cutting Pilot. $72.80
Neck Turner Complete with Carbide Mandrel ..... $95.55
Mitutoyo Micrometers ..... $154.69

### PMA TOOL

Case Holders ..... $12.50
Driver for Case Holders ..... $13.35
Pocket Squaring Tool ..... $29.30
Carbide Neck Turning Mandrel ..... $41.75
Powder Measure Stand ..... $47.03
Mini Quick Trimmer ..... $50.25
Bullet Puller for 6mm PPC / BR / Grendel ..... $58.50
Micro Die Adjuster With Thumb Screw Upgrade . $58.50
Cleaning Cradle for 3 Inch Forend ..... $61.95
Double Rifle Cleaning Cradle - Benchrest ..... $99.95
Neck Turning Tool 30 Degree (Less Mandrel) . $105.50

### REDDING

Deluxe Die Set ..... $67.40-$133.60
Competition Set ..... $280.40-$309.50
Bushing Style Neck Die Set ..... $94.40-$245.00
Bushing Style Full Die Set ..... $97.00-208.40
Presses ..... $123.60-$287.50
Bushings ..... Steel: $15.95 / Titanium $25.95
FULL REDDING CATALOG ALSO AVAILABLE, MANY ITEMS IN STOCK. IF NOT – CAN BE ORDERED QUICKLY

# BRUNO SHOOTERS SUPPLY

## VISIT OUR WEB SITE AT WWW.BRUNOSHOOTERS.COM

### LOADING BLOCKS

| | |
|---|---|
| Bruno Aluminum Loading Block 25 Round | $29.95 |
| Bruno Aluminum Loading Block 50 Round | $39.95 |
| Bruno Acrylic Loading Block 50 Round | $19.95 and up |
| Lyman Loading Block 50 Round | $5.95 |

### NEW LAB RADAR

| | |
|---|---|
| LabRadar, Ballistic Velocity Doppler Radar | $559.95 |
| Bench Rest Plate | $39.95 |
| Tripod | $54.95 |
| Archery Trigger Adapter | $44.95 |
| Air Gun Trigger Adapter | $44.95 |
| 8GB SD Card | $9.95 |
| Padded Carrying Case | $39.95 |
| USB Rechargable Battery Pack | $24.95 |

### CHRONY CHRONOGRAPHS

| | |
|---|---|
| Chrony Chronographs | $81.84-$174.27 |

### BOOKS

| | |
|---|---|
| Airgun Odyssey Soft Cover | $19.95 |
| Berger Bullets First Edition Reloading Manual | $26.39 |
| **Book of Rifle Accuracy by Tony Boyer** | |
| **Hard Cover** | **$42.50** |
| **Soft Cover** | **$34.50** |
| Hornady Handbook 9th Edition | $26.70 |
| Hunting Trophy Whitetails | $19.95 |
| Lyman 49th Reloading Handbook (Hard Cover) | $27.95 |
| Lyman 50th Reloading Handbook (Hard Cover) | $26.99 |
| Lyman 50th Reloading Handbook (Soft Cover) | $19.99 |
| John Nosler "Going Ballistic" Biography | $17.90 |
| Nosler Reloading Manual #8 | $20.10 |
| Snipercraft | $6.95 |
| Varmint Hunters Odessy Soft Cover | $21.95 |
| Whitetail Strategies | $9.95 |

### EDGEWOOD SANDBAGS

Rear Bags

| | |
|---|---|
| Originals Filled | $150.00-$175.00 |
| Mini Gaters Filled | $175.00-$200.00 |
| Gaters Filled | $200.00 |
| Front Bags Filled | $58.00-$86.00 |
| Spacers | $24.00-$29.00 |
| Deadbottoms | $33.00-$36.00 |
| Bolt Holsters | $58.00 |
| Deluxe Bolt Holsters | $58.00 |
| Handpads | $54.00-$58.00 |
| Bench Snake | $66.00 |
| Elbow Pad | $66.00 |
| 15lb box of heavy sand | $18.95 |

**All Edgewood Products Available – See Website**

### HAWKEYE BORESCOPES

| | |
|---|---|
| 17" Shooting Edition | $569.95 |
| 17" Kit with Black Hard Case | $692.95 |
| 17" Kit with Black Hard Case & Angled Eyepiece | $878.95 |
| 17" SuperPro SuperNova Kit | $1,895.00 |

### FEATURED ITEMS

| | |
|---|---|
| Satern Powder Funnels | $12.95-$22.95 |
| Kleinendorst Bolt Disengagement Tools | $28.75-$44.95 |
| Rear Entry Wrenches | $51.75-$67.50 |
| Scales | $23.60-$86.10 |
| Earmuffs | $7.95-$118.79 |
| Tumblers | $49.50-$170.19 |

### LAPUA BRASS

| | |
|---|---|
| 22-250 Rem/100 | $0.92/ea |
| 220 Russian/100 | $0.92/ea |
| 220 Russian Neck Turned/6PPC/100 | $1.89/ea |
| 221 Fireball/100 | $0.66/ea |
| 222 Rem/100 | $0.57/ea |
| 223 Rem/100 | $0.57/ea |
| 243 Win/100 | $0.90/ea |
| 6BR Norma/100 | $0.86/ea |
| 260 Rem/100 | $0.94/ea |
| 6.5 Creedmoor/100 | $1.09/ea |
| 6.5 Grendel/100 | $0.92/ea |
| 6.5X284 Win/100 | $1.20/ea |
| 6.5 x47/100 | $1.06/ea |
| 6.5x55 Mauser/100 | $0.82/ea |
| 7mm-08/100 | $0.94/ea |
| 7.62x39/100 | $0.55/ea |
| 7.62x53R/100 | $0.98/ea |
| 30-06 Springfield/100 | $0.97/ea |
| 300 AAC Blackout/100 | $0.67/ea |
| 308 Palma/100 | $0.80/ea |
| 308 Win/100 | $0.76/ea |
| 338 Lapua Mag/100 | $2.49/ea |
| 50 BMG - per 50 | $241.00 |
| 9mm Luger/100 | $0.22/ea |

**All brass available per 500**
**All brass available per 1,000**
**Please call for 500/1,000 prices – not listed on internet**

**Brass also available in Federal, Hornady, Norma, Nosler, Remington, and Winchester**

### GUNPOWDER

| | |
|---|---|
| Hodgdon 1lbs | $16.70-$25.40 |
| Hodgdon 8lbs | $115.50-$181.20 |
| IMR 1lbs | $18.80-$25.80 |
| IMR 8lbs | $131.40-$186.10 |
| Alliant 1lbs | $16.30-$23.10 |
| Alliant 8lbs | $110.30-$167.00 |
| VihtaVuori 1lbs | $20.70-$35.50 |
| VihtaVuori 8lbs | $201.00-$236.60 |
| Winchester 1lbs | $19.70-$21.90 |
| Winchester 8lbs | $141.00-$160.90 |

### PRIMERS

| | |
|---|---|
| CCI Primers | $26.90-$49.90 |
| Federal Primers | $25.90-$44.95 |
| Fiocchi Small Pistol Primers, 1,500 count | $60.40 |
| Remington Primers | $31.20-$35.10 |
| Unis Ginex Primers | $24.40-$27.60 |
| Winchester Primers | $28.10-$31.70 |

**Save 5% on minimum order of 5,000 primers please call**

### BULLETS – ALL CALIBERS AVAILABLE

Berger Bullets
Sierra Bullets
Berry's Bullets
Hornady Bullets
Lapua Bullets
Nosler Bullets

**GREAT PRICES - SEE WEBSITE**

### RIMFIRE AMMO

SK
Wolf
Lapua
Eley
Federal
CCI
RWS
Aguila
Cascade
Sellier and Bellot

**All rimfire sold by the box**
**All rimfire sold by the brick**
**All rimfire sold by the case**
**Please call for case pricing – not listed on internet**

### 22 MAG AMMO

| | |
|---|---|
| CCI 22 Mag Loaded Ammo - Maxi-Mag HP +V - .22 WMR 30 Grain - Jacketed Hollow Point +V (50) | $14.50 |
| CCI 22 Mag Ammo - V-MAX - .22 WMR 30 Grain - Polymer Tip (50) | $14.99 |

### ARBOR PRESSES

| | |
|---|---|
| **Bruno Arbor Press SALE** | **$89.95** |
| Bald Eagle Mini Arbor Press | $69.95 |
| K&M Arbor Press | $125.00 |
| K&M Arbor Press With Standard Force Pack | $136.50 |

### AMMO BOXES

| | |
|---|---|
| Berry's 50 Round Box | $1.99-$3.49 |
| Bald Eagle 50 Round Box | $4.95 |
| Bald Eagle 100 Round Box | $5.95 |
| MTM 50 Round Box | $3.64-$18.28 |
| MTM 100 Round Box | $3.44-$24.98 |

**New custom built rifles available. Also, chambering in many calibers. Please call.**

## NO CREDIT CARD FEE!

**except Non-USA cards and Action purchases.**

**A UPS HAZARDOUS MATERIALS CHARGE OF $32.00 WILL BE ADDED TO EACH BOX CONTAINING POWDER AND/OR PRIMERS. WEIGHT RESTRICTIONS APPLY. POWDER AND PRIMERS MAY BE SHIPPED TOGETHER UNDER ONE SHIPPING CHARGE.**

**Bruno's terms and conditions apply. See website.**

**All in stock items ship same day if ordered before 3pm**

**99% Guaranteed**

**BRUNO SHOOTERS SUPPLY**
**21628 N. CENTRAL AVE, STE 4**
**PHOENIX, AZ 85024**
**PHONE: 623 587-7641 FAX: 623 587-7645**
**ORDERS ONLY: 1-800-455-0350**

**HOURS OF OPERATION**
**Monday-Friday 8am to 5pm**
**Saturday 9am to 12noon**
**CLOSED SUNDAY**

# ARIZONA - JANUARY& FEBRUARY 2018

The Cover-

Thank you to all the shooters that came out this weekend for the second half of the 2018 AZ State Championships. This weekend was the Light Varmint and Heavy Varmint leg of our State Championships, and combined with the January Sporter and Unlimited aggs to create a 3 and 4 gun.

Both practice days saw great weather.We had cool mornings and warm afternoons with very little wind throughout.

Shooters got to relax and enjoy the great Arizona weather while testing out their loads. We had 26 shooters show up to practice on Thursday, then 41 total on Friday, which is a pretty good turnout for a February match.

Saturday started with Light Varmint at 100 yards. Lowell Frei took the lead straight out of the first match with a 0.108 small group, then took small group in match 2 with a 0.134 and small group in match 3 with a 0.163. Dana Andrus took match 4 with a 0.130 and Grady Hampton took match 5 with a 0.179. Lowell's early lead let him come out on top for the LV-100 agg with a 0.1744, followed by Dana Andrus with a 0.1918, and Larry white at 0.2040.

In the afternoon Heavy Varmint 100 yard matches, Ed Adams took first with a convincing lead at 0.1644, followed by Paul Snow with a 0.1940, and Lowell Frei with a 0.2068. Leaving Lowell on top for the running agg going into Sunday morning.

Sunday saw more of the same great weather. We started with Heavy Varmint 200 yards in the morning, where Lester Bruno came in 3rd with a 0.2479, Stephen Everson took 2nd with a 0.2307, and Dana Andrus took the lead with a 0.2004 in the agg. For the Light Varmint 200 yard agg, Ed Adams took 3rd with a 0.2377, Bob Brackney came in 2nd with a 0.2282, and Lester Bruno took 1st with a 0.2218.

For the Light Varmint grand agg, Dana Andrus took 3rd with a 0.2461, Ed Adams took 2nd with a 0.2332, and Bud Mundy took 1st with a 0.2268. In the Heavy Varmint grand agg, Lowell Frei took 3rd with a 0.2280, Ed Adams took 2nd with a 0.2172, and Dana Andrus came in 1st with a 0.2137. When combined together to make our LV-HV 2-gun, Bud Mundy came in 3rd with a 0.2377, Dana Andrus came in 2nd with a 0.2299, and Ed Adams took 1st with a 0.2252.

These scores combined with last month's Sporter and Unlimited 5-Shot matches to create a 3 and 4-gun grand agg. In the 3-gun, Dana Andrus took 3rd place with a 0.2586, right behind Lester Bruno, who took 2nd place with a 0.2585, with Bud Mundy in 1st with a 0.2560. For our 4-gun grand agg, Bud Mundy came in 3rd with a 0.2579, Dana Andrus took 2nd with a 0.2503, and Lester Bruno had quite the lead with a 0.2368 overall grand agg which won him 1st place.

*Thanks again everyone for coming out this weekend.*
*~Ryan Neal*

### LV 100 YARDS

| | |
|---|---|
| Lowell Frei | 0.1744 |
| Dana Andrus | 0.1918 |
| Larry White | 0.2040 |
| Bud Mundy | 0.2124 |
| Ed Adams | 0.2288 |

### LV 200 YARDS

| | |
|---|---|
| Lester Bruno | 0.2218 |
| Bob Brackney | 0.2282 |
| Ed Adams | 0.2377 |
| Bud Mundy | 0.2412 |
| Wayne Christian | 0.2431 |

### LV GRAND

| | |
|---|---|
| Bud Mundy | 0.2268 |
| Ed Adams | 0.2332 |
| Dana Andrus | 0.2461 |
| Lou Murdica | 0.2481 |
| Lowell Frei | 0.2545 |

### SMALL GROUP

| | |
|---|---|
| Lowell Frei | 0.108 |

### SMALL GROUP

| | |
|---|---|
| Bud Mundy | 0.139 |

### HV 100 YARDS

| | |
|---|---|
| Ed Adams | 0.1644 |
| Paul Snow | 0.1940 |
| Lowell Frei | 0.2068 |
| Lester Bruno | 0.2136 |
| John Verhagen | 0.2204 |

### HV 200 YARDS

| | |
|---|---|
| Dana Andrus | 0.2004 |
| Stephen Everson | 0.2307 |
| Lester Bruno | 0.2479 |
| Lowell Frei | 0.2493 |
| James Coulter | 0.2506 |

### HV GRAND

| | |
|---|---|
| Andrus Dana | 0.2137 |
| Adams Ed | 0.2172 |
| Frei Lowell | 0.2280 |
| Snow Paul | 0.2286 |
| Bruno Lester | 0.2307 |

### SMALL GROUP

| | |
|---|---|
| John Verhagen | 0.101 |

### SMALL GROUP

| | |
|---|---|
| James Coulter | 0.139 |

*Walt Berger*

*LEFT-RIGHT: Ed Adams, Lester Bruno, Bud Mundy, Bob Brackney, Steve Everson, Larry White, Jim Erickson, Tony Debacco*

## SPORTER 100 YARDS

| | |
|---|---|
| Lester Bruno | 0.2056 |
| Keith Cottrell | 0.2102 |
| Earl Horgeshimer | 0.2166 |
| Roy Damron | 0.2178 |

### SMALL GROUP

| | |
|---|---|
| Tony Debacco | 0.111 |

## SPORTER 200 YARDS

| | |
|---|---|
| Joe Pipola | 0.2521 |
| Keith Cottrell | 0.2844 |
| Bob Brackney | 0.2956 |
| Bud Mundy | 0.3117 |

### SMALL GROUP

| | |
|---|---|
| Dana Andrus | 0.261 |

## SPORTER GRAND

| | |
|---|---|
| Keith Cottrell | 0.2473 |
| Lester Bruno | 0.2704 |
| Joe Pipola | 0.2853 |
| Bud Mundy | 0.2927 |

## UNLIMITED 100 YARDS

| | |
|---|---|
| Lester Bruno | 0.1308 |
| Bud Mundy | 0.1434 |
| Larry White | 0.1438 |
| Tony Debacco | 0.1566 |
| Gary Ocock | 0.1886 |

### SMALL GROUP

| | |
|---|---|
| Larry White | 0.091 |

## UNLIMITED 200 YARDS

| | |
|---|---|
| Lester Bruno | 0.2131 |
| Dana Andrus | 0.2418 |
| Greg Evanson | 0.2442 |
| Marty Childers | 0.2513 |
| Max Maxwell | 0.2550 |

### SMALL GROUP

| | |
|---|---|
| Larry White | 0.174 |

## UNLIMITED GRAND

| | |
|---|---|
| Lester Bruno | 0.1719 |
| Marty Childers | 0.2226 |
| Gary O'Cock | 0.2231 |
| Max Maxwell | 0.2238 |
| Tony Debacco | 0.2246 |

## LV-HV 2 GUN

| | |
|---|---|
| Ed Adams | 0.2252 |
| Dana Andrus | 0.2299 |
| Bud Mundy | 0.2377 |
| Lowell Frei | 0.2413 |
| Paul Snow | 0.2500 |
| Lester Bruno | 0.2525 |
| Marty Childers | 0.2683 |
| Mark Walker | 0.2709 |
| Stephen Everson | 0.2759 |
| Wayne Christian | 0.2794 |

## LV-HV-SP 3 GUN

| | |
|---|---|
| Bud Mundy | 0.2560 |
| Lester Bruno | 0.2585 |
| Dana Andrus | 0.2586 |
| Bob Brackney | 0.2950 |
| Larry White | 0.2960 |
| Tony Debacco | 0.3095 |
| Dan Sutton | 0.3137 |
| Stephen Everson | 0.3149 |
| John Verhagen | 0.3254 |
| Gary Ocock | 0.3394 |

## 4-GUN GRAND

| | |
|---|---|
| Lester Bruno | 0.2368 |
| Dana Andrus | 0.2503 |
| Bud Mundy | 0.2576 |
| Tony Debacco | 0.2882 |
| Bob Brackney | 0.2935 |
| Larry White | 0.3026 |
| Dan Sutton | 0.3063 |
| Gary Ocock | 0.3103 |
| Chuck Miller | 0.3219 |
| John Verhagen | 0.3281 |

# DESERT SPORTSMAN RIFLEMAN CLUB

AUGUST 2017

The day started out great. Air balloons were in the air no wind, little mirage, and the temperature at 100+. Starting at 100yds. we had 39 scores (50) and out of that were 7 50-5x scores, but as always, when we went to 200yds the wind came up and the mirage was there, even the 30 cal shooters could not see the bullet holes. But it didn't stop some of the shooters from shooting 14 50's at 200yds. Nice shooting guys. Like I said a day at the range no matter how the weather is a good day.

## VFS

### 100 YARDS

| | |
|---|---|
| John Ames | 250-18x |
| Sheldon Turf | 250-16x |
| Wayne Christian | 250-16x |
| Fran Ito | 250-16x |
| Al Stopus | 250-15x |
| David Blazzard | 249-17x |
| Stan Lapointe | 249-14x |
| Ron Carter | 249-14x |
| Richard Trees | 245-03x |
| Pete Savage | 242-06x |

### 200 YARDS

| | |
|---|---|
| Sheldon Turf | 248-05x |
| Stan Lapointe | 247-05x |
| David Blazzard | 246-02x |
| Ron Carter | 245-04x |
| Pete Savage | 245-03x |
| Fran Ito | 245-01x |
| John Ames | 240-04x |
| Richard Trees | 239-02x |
| Wayne Christian | 235-01x |
| Al Stopus | 234-02x |

### GRAND

| | |
|---|---|
| Sheldon Turf | 498-21x |
| Stan Lapointe | 496-19x |
| David Blazzard | 495-19x |
| Fran Ito | 495-17x |
| Ron Carter | 494-18x |
| John Ames | 490-22x |
| Pete Savage | 487-09x |
| Wayne Christian | 485-17x |
| Al Stopus | 484-17x |
| Richard Trees | 484-05x |

## FACTORY CLASS

### 100 YARDS

| | |
|---|---|
| Steve Weiss | 240-4x |

### 200 YARDS

| | |
|---|---|
| Steve Weiss | 193-0x |

### GRAND

| | |
|---|---|
| Steve Weiss | 433-1x |

## HUNTER

Mirage and wind is what the shooters had to contend with today, the 100yd match wasn't too bad but when they got to the 200yds nobody could see the bullet holes most of the time except for Stan he had his head on straight today. This was his first clean sweep. Congratulations Stan nice shooting.

### 100 YARDS

| | |
|---|---|
| Stan LaPointe | 249-17x |
| Ron Orton | 248-09x |
| Pete Savage | 246-07x |
| Dave Reymore | 246-05x |
| Richard Trees | 223-02x |

### 200 YARDS

| | |
|---|---|
| Stan LaPointe | 244-07x |
| Dave Reymore | 240-03x |
| Ron Orton | 238-00x |
| Pete Savage | 236-01x |
| Richard Trees | 217-00x |

### GRAND

| | |
|---|---|
| Stan LaPointe | 493-24x |
| Ron Orton | 486-09x |
| Dave Reymore | 486-08x |
| Pete Savage | 482-08x |
| Richard Trees | 440-02x |

# SAHUARO 1000 YARDS - FEBRUARY 2018

## LIGHT GUN

Jeff Billotte .....6.60"
Dave Osborn .....6.82"
Mike Billotte .....8.85"
Dale Arenson .....9.13"
Ross Herrick .....9.42"

## SMALL GROUP

Dave Osborn .....3.125"

## LIGHT GUN TOTAL SCORE

Dale Arenson.....132-1x
Bill Warner.....131-3x
Jeff Billotte.....130-2x
Dave Osborn .....130-0x
Mike Billotte .....132-0x

## HIGH SCORE

Jeff Billotte .....48x

## EQUIPMENT LIST

| NAME | CALIBER | ACTION | BARREL | GUNSMITH | STOCK | SCOPE | CASE | POWDER | BULLET |
|---|---|---|---|---|---|---|---|---|---|
| J Billotte (L) | Lazz | McMillian | Pac Nor | Lazzarini | McMillian | Niteforce | R-P | H1000 | Breger |
| J Billotte (H/35) | Lazz | McMillian | Pac Nor | Lazzarini | McMillian | Niteforce | Norma | H1000 | Berger |
| Osborn (L) | Creedmore | Bat | Krieger | Bruno | McMillian | Niteforce | Lapua | RL13 | Berger |
| Osborn (H) | WSM | Bat | Krieger | Bruno | McMillian | Niteforce | Nosler | RL-22 | Berger |
| Arenson (H/29) | Patroit | Bat | Krieger | Bruno | McMillian | Niteforce | Lazz | H4831 | Berger |
| Arenson (L) | Patroit | Rem | Hawk Hill | Harris | McMillian | Niteforce | 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"

## SMALL GROUP

Dale Arenson .....9.5625"

## HEAVY GUN TOTAL SCORE

Dave Osborn .....269-2x
Jeff Billotte.....264-4x
Dale Arenson.....257-2x
Ross Herrick.....254-2x
Mike Billotte .....147-1x

## HIGH SCORE

Jeff & Dale .....95-2x

# PPC ORIGINS – PART 1

In the early 1970's, Dr. Lou Palmisano and Ferris Pindell took a ground up approach to improving benchrest case design. Their efforts gave us the Palmisano & Pindell Cartridge, commonly known as the PPC. It quickly dominated short-range competition and to this day nothing has come close to supplanting it. Veteran benchresters know most of the history behind the PPC's development. The younger crowd perhaps has a grasp of the condensed story. In between those ends is a lot of theory, experimentation, and capital investment. This two-part article delves into the how and why of the PPC. The majority of what I'll share comes straight from Palmisano & Pindell's working papers. Some of this material has been published, other portions have not.

Lou Palmisano was an avid precision shooter and became intrigued with cartridge design in the 1960's. He firmly held that shorter cartridges offered more consistent ignition, and hence better accuracy than longer profiles. According to Palmisano, shorter cases have four distinct advantages:

- Lower ratio of charge height to charge diameter
- More complete powder consumption
- Less muzzle disturbance, and thus more consistent barrel harmonics
- Uniform ignition pattern

He skipped the .219 Donaldson Wasp in his early trials. The wildcat had already been replaced, or as some would say 'bested', by the .222 Remington and 6 x 47. Instead, Palmisano worked with the .220 Swift hull. He was not the first. In the 1940's, Al Bar created his .220 Baby Swift. This was nothing more than a 1.50" version of the parent with slight shoulder modification. The cartridge was written-up by Richard Simmons in "Wildcat Cartridges", 1947. Like Bar, Palmisano found the short Swift laborious to form. Case splitting plagued him as did signs of erratic pressure. Around the same time, H.L. Culver necked his Swift based .25 Dart to 6mm and shortened it to 1.50". It never caught on, though Culver shot it competitively. I reference it here only to illustrate that a few benchrest shooters liked the 0.440"-ish x 1.50" boiler. However, Frank Barnes' 308 x 1.5 probably did more to solidify the short & fat craze than any other wildcat. Many 308 x 1.5" variants emerged during that era, the most notable being Jim Stekl's .22 BR. It became the foundation for the 6mm BR, which would appear in the late 1970's. Ferris Pindell also spent many years working with 308 x 1.5" wildcats. And this is a vital piece of the PPC's history. Its underpinning was most certainly laid in the 1960's. Granted, Pindell and Palmisano used different parent cases and operated hundreds of miles apart. That didn't matter. It was their shared vision and desire to build a better mousetrap that put them on the same path (unbeknownst to one another). Eventually their paths crossed and competitive benchrest was forever changed.

The .220 Russian, from which the PPC is based, was not a common cartridge in the 1970s. It came into the United States thanks to Sako of Finland. At the 1962 World Shooting Championships in Cairo, the Russians shot 7.62 x 39 necked to .22-caliber. Sako later marketed it as ".220 Russian", yet North American distribution was thin. Fred Davis tested a so-chambered varmint rifle for Guns Magazine in 1969. He reported fine accuracy but believed it would do even better expanded to 6mm. Davis implied the short-stubby shape may be tad over-bore in twenty-two. To my knowledge, he never wildcatted the Russian, likely due to its scarcity. Then in 1971, Larry Sterrett covered the .220 Russian in Handloader Magazine and that caught Palmisano's eye. With minor body and shoulder modification, case capacity would be near ideal for .22 and 6mm. Equally important, Sako produced it boxer primed with small rifle pockets. Lou immediately wrote Sako in an attempt to purchase the brass. But before they could respond, fate intervened. One day, Palmisano was shooting with long-time friend Joe Broggi. After lunch, they visited a local gun store to browse. Before leaving, Joe called Lou over to see five dusty ammo boxes. Low and behold, they were .220 Russian. Two weeks later, Palmisano took some of it to the 1974 Super Shoot in Wapwollopen, PA. What followed was the proverbial meeting of the minds. Quoting Dr. Palmisano:

"I showed the case to a number of the world's most prominent and knowledgeable precision shooting 'experts'. Except for Ferris, they cavalierly dismissed the case as just another wildcat. In looking back on it, one has to wonder at those mysterious ways that determine fateful happenings. With so many prestigious men, all with many years experience, showing no interest at all… .'The .222 is it', 'Everything's been tried and nothing beats the deuce', 'You're spinning your wheels Doc', etc, etc". I might very well have thrown in the towel except for Ferris Pindell's enthusiasm. We were confident the .220 Russian case by Sako was what we needed".

The two defined five main goals for their new wildcat. First, no cartridge can perform an infinite number of tasks. Their basic quest was supreme accuracy out to 300 yards. Second, the shape of the case, and subsequently the shape of the powder charge, are

paramount. Third, complete consumption of the powder after uniform ignition is a must. Fourth, low muzzle disturbance and consistent barrel vibration shot-to-shot is intrinsically tied to accuracy. Fifth, the optimum velocity for short-range .22 and 6mm bullets is 3,200 – 3,400 fps.

Pindell's technical acumen had an immediate impact on the PPC's development. He started competing in benchrest in 1946 and knew the sport well. Ferris was also an accomplished tool and die maker, having been employed at Sierra bullets. When he moved back to his native Indiana, Pindell formed his own precision tooling company. Select clients included Winchester, Remington, and Super-Vel, for which he made bulleting swages, dies, and punches.

The first thing they assessed was Sako's .220 brass. While the dimensions were a hit, the hardness was not. Both Pindell and Palmisano knew it was too soft. Moreover, there was too much case weight variation to roll match-grade ammunition. They wrote Sako asking for two improvements: 1) Draw the cups from 70-30 brass with a Rockwell B rating of 79 – 80, and 2) Drill, not punch, the flash holes 0.066" diameter. Sako agreed to the changes, leaving Pindell and Palmisano to focus on the case profile. They began by ordering a standard .220 Russian reamer from Keith Francis. A .22-caliber Atkinson barrel with 1:14" twist was chambered and fit to an Unlimited Class rifle. Test groups were very small and amazingly consistent. The two knew they were on to something. To their credit, they didn't stop there. Even though the .220 Russian seemingly out-performed the Deuce, they pushed the envelope. In December 1974, six more barrels were chambered in .22 and 6mm derivations of the Russian. Each differed in shoulder angle and body taper. Palmisano and Pindell did not specify all the tapers used, but shoulder angles were set at 30, 35, and 40 degrees. Those barrels were shipped to Pawlak Laboratories in Issaquah, Washington where rigorous testing ensued.

Dan Pawlak opened Pawlak Laboratories in the early 1970's after renting a Vietnam War-era plant. Located 3,000 feet up on Issaquah's Taylor Mountain, it was the perfect place to conduct ballistic research. The young chemist quickly struck it big by creating Pyrodex powder. Hodgdon bought the rights to distribute it and muzzle loaders have been in heaven ever since. Tragically, Dan Pawlak and three others were killed when the facility exploded on January 27, 1977. As you'll soon see, Dan was active in the PPC's design from 1974 – 1975. Pindell and Palmisano hoped to evaluate other variables, but Pawlak's untimely death shelved those plans.

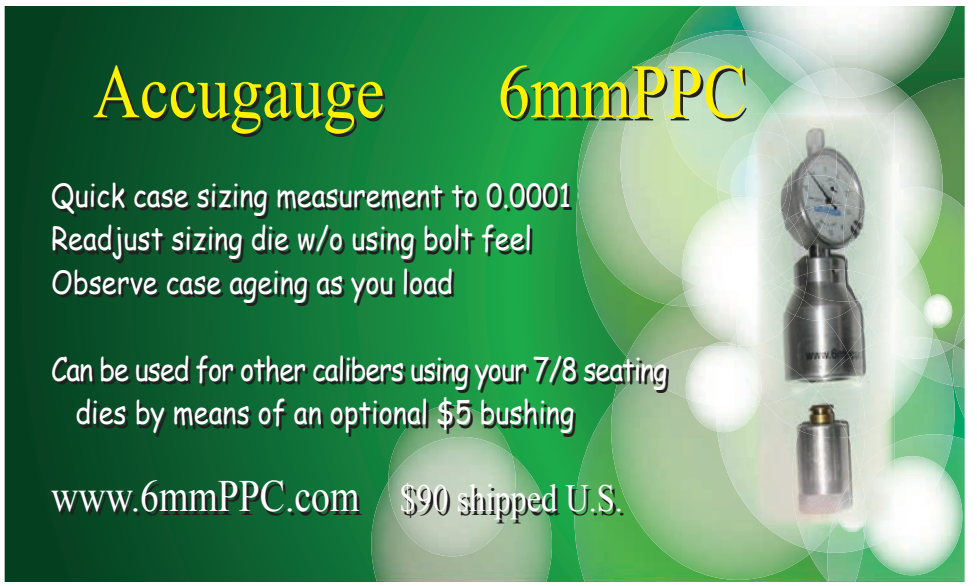
With six barrels and a good supply of brass, Pawlak began testing in January 1975. Five major factors were studied – pressure, velocity, barrel vibration, peak pressure, and muzzle disturbance. He provided his initial findings in a letter to Lou Palmisano dated May 6, 1975. Rather than paraphrase, I'll share Pawlak's exact words:

"Dear Dr. Palmisano,

Enclosed is the data you requested excluding flash hole enlargement which will be forthcoming. I gave you my worksheets because I felt you were anxious to receive the results.

The cartridge is very interesting. It has good pressure capability in spite of its short length, being able to handle 65,000 psi peak pressure without any permanent deformation. The particular geometry of this case coupled with the small rifle primer caused relatively slow (approximately 25% slower) rise times as compared to the .222. This may or may not be beneficial to accuracy. Slower rise times are frequently accompanied by better consistency and of course that would be beneficial.

Hodgdon's H322 would be my first choice of propellant from an internal ballistics point of view. It can be loaded to 100%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loading density in both calibers and give almost identical curve profiles in both.
Second choice would be IMR 4198 but it will not meter accurately. Reloader 7 does not appeal to me at all, especially after I blew the head off a .222 with it while testing for you. You can see the last of the trace coming jaggedly down on the .222 graph.

Third choice would be W748 as it is the most efficient powder tested giving high velocity with low pressure. It might be interesting to try other ball powders with a more suitable burn rate exponent.
Because of the very limited testing I have done with this cartridge, my observations must remain general. However, these curves should give you the basis for further experimentation of your own. If you have any further questions, please contact me.

Best regards,
Dan Pawlak"

It quickly began apparent one configuration was superior across the five factors tested. In the spring of 1975, reamers for the final design were ordered from Keith Francis. The PPC was defined as follows:

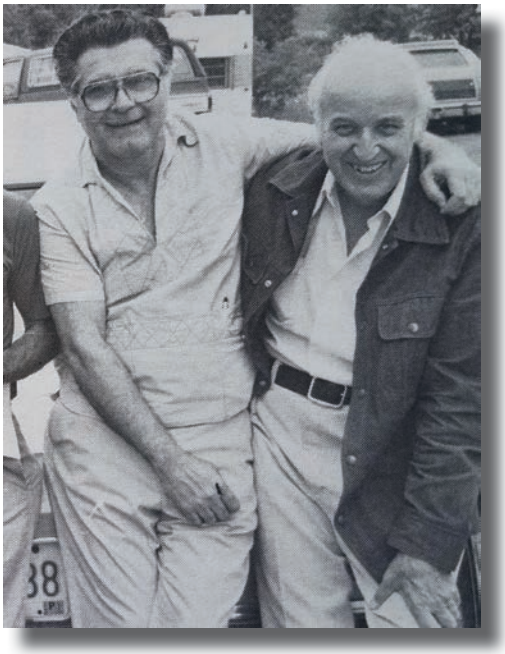
- Overall length = 1.500"
- Body taper = 0.010" per inch
- Shoulder angle = 30 degrees
- Flash hole diameter = 0.066"

Internal volume equaled 33.8 grs of water, compared to 27.5 grs for the .222 Remington and 31.7 grs for the .222 Remington Magnum. Eventually, the flash hole diameter was further reduced. It's debatable whether the current 0.059" – 0.062" offers any accuracy advantage over the original 0.066".

Pindell and Palmisano had plenty of more questions for Dan Pawlak. I'll cover those along with the PPC's first major benchrest victory in Part II. That victory occurred just three weeks after Pawlak's May 9th letter. Things were moving fast.

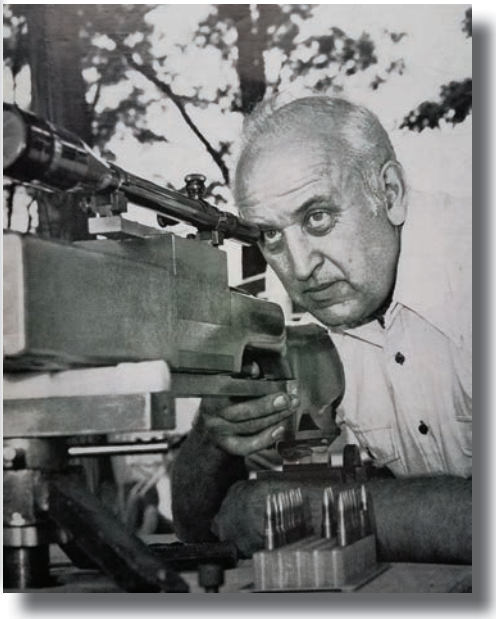
*Special thanks to my good friend Don Jones. He gave me a copy of Dr. Palmisano's "PPC Packet" and it was immensely helpful. They printed around 5,000 of these, all of which were individually numbered.*

*~Lee Martin*



*Lou Palmisano and Ferris Pindell*

*Farris Pindell*



*Dan Pawlak*

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# BEST OF THE WEST - RATON NEW MEXICO

MAY 2017

The NRA Whittington Center in Raton, New Mexico reminded the 41 competitors of the old song 'Home on the Range', where the deer and the antelope play, and play, and play some more.

No one could remember a time when there were so many cease fires called due to animals on the range. On Sunday, we were delayed almost an hour because of the critters.

On Saturday morning, Lowell Frei shot an .052 in the second LV 100 match, winning a trophy for small group. TK Nollan out of Catoosa, Oklahoma won the LV 100 with a .1914 agg. Durward Wofford, out of Melrose, New Mexico took second with a .2174, followed by Jim Hemmert from Kalvesta, Kansas with a .2218.

Saturday afternoon, in the HV 100, 16 year old Brandon McNairy, out of Evergreen, Colorado beat the field, including several former world team members with a .2432 agg. Kelly Ellis, out of Dolores, Colorado came in second with a .2566, followed by Charles Huckeba, from Odessa, Texas with a .2582. Ellis also took home the trophy for small group with a .139.

While Sunday felt like being at a nature preserve rather than a benchrest match with all the animals, it was Richard Brensing from Mullinville Kansas winning the HV 200 match with a .2561. Steve Murphy from Lubbock, Texas came in second with a .2681, and Bud Mundy from Hillsboro, Missouri came in third with a .2979. Kelly Ellis won his second small group trophy with a .313 in the last match.

Sunday afternoon, Hemmert edged out Albuquerque's Ed Adams for first place in the LV 200 match, .2602 to .2637. Brensing took third with a .2782. Murphy won the small group trophy with a .251.

So when the dust settled, in the LV Grand Agg, it was Hemmert .2410, Adams .2433, and Frei .2553. Todd Tyler came in fourth, and Brensing fifth. For the HV Grand Agg, it was Brensing .2736, Murphy .2855, and Tyler .2896. Frei came in fourth, and Mike Bryant, out of Lubbock Texas took fifth place.

For the Two Gun Grand Agg, Brensing's .2718 wins first place and the Alvin Davidson Memorial Trophy. This is the first time the traveling trophy has left New Mexico in almost a decade! Tyler took second with a .2796, just squeaking by Ed Adams' .2797, Frei's .2799, and Hemmert's .2819!

## LV 100 YARDS

| | |
|---|---|
| TK Nollan | 0.1914 |
| Durward Wofford | 0.2174 |
| Jim Hemmert | 0.2218 |
| Ed Adams | 0.2230 |
| Chet Whitebread | 0.2254 |

### SMALL GROUP

| | |
|---|---|
| Lowell Frei. | 0.052 |

## LV 200 YARDS

| | |
|---|---|
| Jim Hemmert | 0.2602 |
| Ed Adams | 0.2637 |
| Richard Brensing | 0.2782 |
| Todd Tyler | 0.2797 |
| Lowell Frei | 0.2810 |

### SMALL GROUP

| | |
|---|---|
| Steve Murphy | 0.251 |

## LV GRAND

| | |
|---|---|
| Jim Hemmert | 0.2410 |
| Ed Adams | 0.2433 |
| Lowwell Frei | 0.2553 |
| Todd Tyler | 0.2697 |
| Richard Brensing | 0.2701 |

## SPORTER 100 YARDS

| | |
|---|---|
| Lou Murdica | 0.2262 |
| Greg Smith | 0.2294 |
| Scott Haywood | 0.2450 |
| Larry Baggett | 0.2542 |
| Charles Huckeba | 0.2604 |

### SMALL GROUP

| | |
|---|---|
| Charles Huckeba | 0.151 |

## SPORTER 200 YARDS

| | |
|---|---|
| Larry Baggett | 0.2735 |
| Todd Tyler | 0.3136 |
| EdAdams | 0.3517 |
| Duke Rovarind | 0.3593 |
| Kelly Morman | 0.3723 |

### SMALL GROUP

| | |
|---|---|
| Lou Murdica | 0.242 |

## SPORTER GRAND

| | |
|---|---|
| Larry Baggett. | 0.2639 |
| Todd Tyler | 0.2956 |
| Ed Adams | 0.3092 |
| Charles Huckeba | 0.3212 |
| Michael Turner | 0.3266 |

## HV 100 YARDS

Greg Smith .....0.3070
Michael Turner .....0.3668
Gary Murray .....0.3798
Jack Snyder .....0.5870
Amanda Lax .....0.7580

## HV 200 YARDS

Michael Turner .....0.4449
Greg Smith .....0.4558
Jack Snyder .....0.4693
Gary Murray .....0.5486
Amanda Lax.....0.6817

## HV GRAND

Greg Smith .....0.3814
Michael Turner .....0.4058
Gary Murray .....0.4642
Jack Snyder .....0.5282
Amanda Lax .....0.7199

## UNLIMITED 100 YARDS

Ed Adams .....0.3278
Charles Huckesa .....0.3406
Durward Wofford .....0.3468
Larry White .....0.3648
Todd Tyler .....0.3732

## UNLIMITED 200 YARDS

Kelly Morman .....0.3457
Scott Haywood .....0.3612
Lou Murdica .....0.3639
Todd Tyler .....0.3811
Duke Rovarind .....0.3837

## UNLIMITED GRAND

Kelly Morman .....0.3643
Ed Adams .....0.3673
Todd Tyler .....0.3771
Lou Murdica .....0.3866
Charles Huckeba .....0.3984

## SMALL GROUP

Durward Wofford .....0.235

## SMALL GROUP

Scott Haywood ..... .....0.359

## TWO GUN GRAND

Todd Tyler .....0.3364
Ed Adams .....0.3383
Larry Bagget .....0.3580
Lou Murdica .....0.3591
Charles Huckeba .....0.3598
Kelly Morman .....0.3628
Scott Haywood .....0.3804
Duke Rovarind .....0.3929
Larry White .....0.4232
Dan Sutton .....0.4403

# LIGHT VARMINT EQUIPMENT LIST

| NAME | ACTION | CALIBER | BARREL | GUNSMITH | STOCK | BULLET | POWDER | SCOPE | PRIMER |
|---|---|---|---|---|---|---|---|---|---|
| Jim Hemmert | Panda | 6PPC | Bart | Bryant | N/A | Barts | N133 | Leupold | 205M |
| Ed Adams | Bat | 6PPC | Bartlein | Adams | Scarbrough | Miller | N-133 | Leupold | 205M |
| Lowell Frei | Stolle | 6PPC | Lederer | Frei | McMillan | Frei | 8208 | Luepold | 205M |
| Todd Tyler | Bat | 6PPC | Krieger | Baggett | Scoville | Miller | N133 | March | 205M |
| Richard Brensing | Bat | 6PPC | Bartlein | Brensing | Robertson | C-Bar | N133 | March | 205M |

# HEAVY VARMINT EQUIPMENT LIST

| NAME | ACTION | CALIBER | BARREL | GUNSMITH | STOCK | BULLET | POWDER | SCOPE | PRIMER |
|---|---|---|---|---|---|---|---|---|---|
| Richard Brensing | Viper | 6PPC | Krieger | Brensing | RimRock | C-Bar | N133 | March | 205M |
| Steve Murphy | Farley | 6PPC | Kreiger | Morman | Scoville | Cheek | Norma | Nightfor | 205M |
| Todd Tyler | Bat | 6PPC | Krieger | Baggett | Scoville | Miller | N133 | March | 205M |
| Lowell Frei | Bat | 6PPC | Lederer | Frei | Speedy | Frei | 8208 | Nightfor | 205M |
| Mike Bryant | CPS | 6PPC | Bartlein | Bryant | McMillan | Bryant | N133 | Leupold | 205M |

## UNLIMITED EQUIPMENT LIST

| NAME | ACTION | CALIBER | BARREL | GUNSMITH | STOCK | BULLET | POWDER | SCOPE | PRIMER |
|---|---|---|---|---|---|---|---|---|---|
| Kelly Morman | Bat | 6PPC | Bartlein | Morman | Baggett/Conry | Tucker | Mix | Weaver | 205M |
| Ed Adams | Bat | 6PPC | Bartlein | Adams | Dodd | Miller | N133 | Weaver | 205M |
| Todd Tyler | Bat | 6PPC | Krieger | Baggett | RFD | Miller | N133 | Weaver | 205M |
| Lou Murdica | Grizzly | 6PPC | Shilen | Sosenko | Kensler | Column | LT | Mario | 205M |
| Charles Huckeba | Hart | 6PPC | Bartlein | Huckeba | Hatl | Huckeba | 8209 | March | 205M |

## SPORTER EQUIPMENT LIST

| NAME | ACTION | CALIBER | BARREL | GUNSMITH | STOCK | BULLET | POWDER | SCOPE | PRIMER |
|---|---|---|---|---|---|---|---|---|---|
| Larry Baggett | Bat | 6PPC | Krieger | Baggett | Scoville | Baggett | N133 | Nightfor | 205M |
| Todd Tyler | Bat | 6PPC | Krieger | Baggett | Scoville | Miller | N133 | March | 205M |
| Ed Adams | Bat | 6PPC | Bartlein | Adams | Scarbrough | Miller | N133 | Nightfor | 205M |
| Charles Huckeba | Bat | 6PPC | Bartlein | Scovell | Scovell | Huckeba | 8208 | March | 205M |
| Michael Turner | Turner | 30-30 | Bartlein | Turner | Speedy | 118 | 4198 | Leupold | Wolf |

# WORLD RECORD MADE 2018

***Richard Pullum from Huffman, TX shot Two(2) new VFS World Records Jan. 26, 2018 at Walker County Benchrest Club, Huntsville, Tx.***

***300yd Agg. (250-7X) and 100-200-300yd Grand Agg. (748-35X)***

***Richard was shooting a 30BR, BAT Action, Bartlien Barrel, BiB bullets & Nightforce Scope***

***Congratulations Richard***

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# 2018 NBRSA REGISTERED MATCHES

## SOUTHWEST REGION

| | | | |
|---|---|---|---|
| May 5-6 | LV/HV | 100-200 | Sloughhouse SR |
| May 12 | LG/HG | 1000 | Sahauro |
| May 20 | LG/HG | 600 | Ojai Valley Gun Club |
| May 27 | LG/HG | 600 | Sloughhouse LR |
| 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

| | | | |
|---|---|---|---|
| May 12-13 | LV/HV | 100-200 | Minnetonka Game & Fish |
| May 13 | HTR | 100-200 | Buffalo Rifle Club |
| May 19-20 | HTR/VFS | 100-200 | Boone Valley Izaak 2-Gun |
| May 20 | HV | 100-200 | Oak Hill Gun Club |
| 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

| | | | |
|---|---|---|---|
| May 5-6 | UNL/HV | 100-200 | Luther Okie Shooters |
| May 5-6 | HTR/VFS | 100-200 | Northern CO Benchrest |
| May 26-27 | LV/HV | 100-200 | Whittington Center |
| June 2-3 | HTR/VFS | 100-200-300 | Mill Creek Club |
| 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 |

# 2018 NBRSA REGISTERED MATCHES

| | | | |
|---|---|---|---|
| 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<br>Rattlesnake - WBC Qualifier |
| Sept 1-2 | LV/HV | 100-200 | Mill Creek Club<br>Kanas State Championship |
| Sept 8-9 | LV/HV | 100-200 | Northern CO Benchrest<br>31st Annual Firewalker |
| Oct 6-7 | HTR/VFS | 100-200 | Mill Creek Club Score<br>Kanas State Championship |

## EASTERN REGION

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

## GULF COAST REGION

| | | | |
|---|---|---|---|
| May 5-6 | LV/SP | 100-200 | New Braunfels, TX-Texas State |
| May 20 | VFS | 100-200 | Lake Charles- LA State |
| 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<br>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<br>NBRSA LR Score National's |
| Sept 23 | HTR/VFS | 100-200 | Lake Charles<br>HTR Gulf Coast Regional's & VFS |
| Sept 29-30 | LV/HV | 100-200 | Lubbock, TX<br>Cotton Boll, Gulf Coast Regional's |

## MISSISSIPPI VALLEY REGION

| | | | |
|---|---|---|---|
| May 6 | HTR/VFS | 100-200 | Benchrest Rifle Club of St. Louis |
| June 9-10 | HTR/VFS | 100-200 | Holmen<br>State HTR Champ. |
| June 23-24 | LV/HV | 100-200 | Benchrest Rifle Club of St. Louis<br>East-West-Show-Me Shootout<br>WBC Qualifier |
| July 7-8 | HTR | 100-200 | Holmen<br>Roy E. Oines Memorial |
| July 14-15 | HTR/VFS | 100-200 | Benchrest Rifle Club of St. Louis<br>MVR and MO State Champ. |
| July 28-29 | 4-Gun | 200 | Benchrest Rifle Club of St. Louis<br>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<br>Missouri State Champ. |

## NORTHWEST REGION

| | | | |
|---|---|---|---|
| May 5-6 | SP/HV | 100-200 | Tacoma Rifle & Revolver |
| May 5-6 | VFS/HTR | 100-200 | Whittecar Rifle Club |
| May 12-13 | HTR | 100-200-300 | North Cascades Sportsman |
| May 27 | LG/HG | 600 | Tri-County Gun Club |
| 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 |

# ROGUE VALLEY - 600 YARDS MATCH

OCTOBER 2017

### LIGHT GUN SCORE

| | |
|---|---|
| Robert Hoppe | 147-03x |
| Bill Johnston | 146-03x |
| George Mac Donald | 143-01x |
| David Wilson | 139-05x |
| Canada Cummins | 136-02x |
| Record | 147-05x |

### HEAVY GUN SCORE

| | |
|---|---|
| Bill Johnston | 287-08x |
| George Mac Donald | 278-05x |
| David Wilson | 273-05x |
| Canada Cummins | 271-03x |
| Robert Hoppe | 263-02x |
| Record | 293-05x |

### TWO GUN SCORE

| | |
|---|---|
| Bill Johnston | 433-11x |
| George Mac Donald | 421-06x |
| David Wilson | 412-10x |
| Robert Hoppe | 410-05x |
| Canada Cummins | 407-05x |
| Record | 431-8X |

### LIGHT GUN GROUP

| | |
|---|---|
| Robert Hoppe | 1.9603 |
| George Mac Donald | 2.1087 |
| Bill Johnston | 2.6170 |
| David Wilson | 2.7513 |
| Canada Cummins | 3.2677 |
| Record | 1.4420 |

### HEAVY GUN GROUP

| | |
|---|---|
| Bill Johnston | 2.9900 |
| Robert Hoppe | 3.3317 |
| George Mac Donald | 3.5227 |
| Canada Cummins | 3.6853 |
| David Wilson | 4.3043 |
| Record | 2.0057 |

### TWO GUN GROUP

| | |
|---|---|
| Robert Hoppe | 2.6460 |
| Bill Johnston | 2.8035 |
| George Mac Donald | 2.8157 |
| Canada Cummins | 3.4765 |
| David Wilson | 3.5278 |
| Record | 1.9840 |

## Election Time Is Near!

**Members of the Following Regions:**

*Eastern

*Mississippi Valley

*Southeast

*Southwest

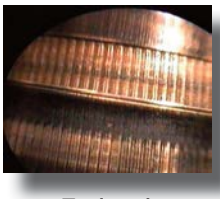
*European

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!

# BORESCOPES: THEIR EVOLUTION AND APPLICATION IN FIREARMS

Abore scope is an optical device that is used to see inside of objects that would otherwise be inaccessible for viewing. Borescopes were first developed to look inside a cannon. Another version, known as an endoscope, was used to examine cadavers. Refined many times over the years, endoscopes have resulted in the wonders of "minimally invasive sugery."

Borescopes are not autoclavable, so they can not be used in medical applications for humans. Borescopes are dramatically less expensive than endoscopes, so they have gained wide acceptance in aerospace, automotive, metal working, firearms, and manufacturing applications. Designed specifically for use in firearms, the Hawkeye® Borescope has become the standard of the industry among gunsmiths, benchrest shooters, varmint hunters, firearms manufacturers, and forensic scientists.

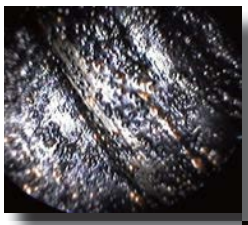


*Toolmarks*

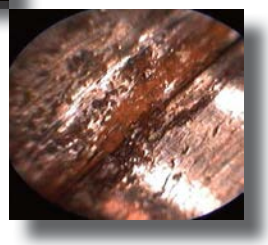
*Damaged Crown*

*COPPER-CARBON TOOLMARKS*

Shooters use it to search for tool marks, defects in chambers and rifling, erosion, and fouling that seriously affect accuracy. Gunsmiths use it to diagnose problems, to monitor processes such as chambering and lapping, and to justify their services. Manufacturers depend on the Hawkeye for research and development when they need to inspect the quality of incoming barrels and in quality assurance on the shop floor. Buyers and sellers of used firearms examine bores to make certain that there are no "surprises lurking in the barrel." Forensic Scientists

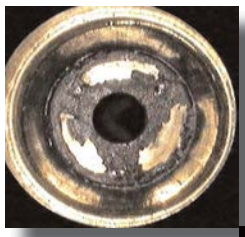


*Never cleaned?*

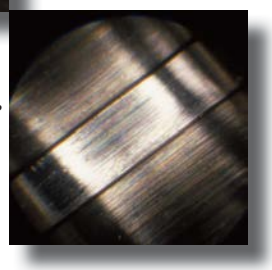


*Rust*

(the real CSI guys), use it to determine twist and land count, to examine sound suppressors, and to preserve valuable DNA evidence that can link a firearm to a crime. The Hawkeye offers two viewing angles. The zero-degree direction-of-view provides an impressive view of twist and forewarns shooters of pending shell separation in well used brass.

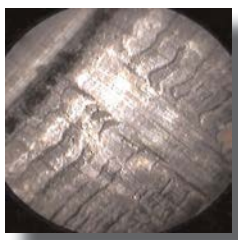


*Cartridge Case*



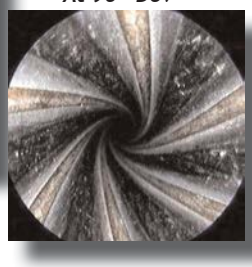
*Match Grade Barrel*

The ninety-degree direction-of-view allows the viewer to inspect the chamber,leade, and bore of a firearm from muzzle to breach. The key applications for a shooter are to monitor erosion and to ensure that their cleaning regimen is working. Usually it isn't!



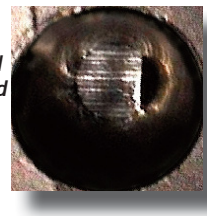
**Land Count, Direction And Fouling At 0° Dov**

*Erosion Of The Leade At 90° Dov*



Video cameras available from Gradient Lens Corporation make it possible to view an image in color on a monitor. Alternatively, the signal from the borescope and video camera can be captured, stored, and transmitted with a computer.

*Blocked Gas Port Viewed By Eye, On A Monitor, And On A Computer.*



Picture this…
a gunsmith in Iowa receives a rifle from his customer in New Jersey. Upon inspecting it with his borescope it is clear that the guy in New Jersey needs a new barrel. The gunsmith's recommendation to the customer by phone fell upon deaf ears. But when he sent a video of the toolmarks, erosion, and fouling in the customer's barrel on the internet, he got the order!
Occasionally, people think that it would be smart to buy a flexible borescope to inspect their firearms. Not a good idea. Flexible borescopes utilize fiber optic strands to transmit light and images and are incapable of producing images of equal quality to solid optical glass. Further, an industrial quality flexible borescope costs far more than a rigid scope. Inexpensive flexible scopes are generally not repairable. The bill for those that are can reach thousands of dollars. So a rigid borescope is actually less expensive, better suited, and more flexible in a shooting application than a flexible borescope.
The "Shooting Edition" of the Hawkeye Borescope is sold exclusively to the shooting market and can be recognized by a green eyecup. This version features upgraded optics and a new mirror technology that protects the mirror from the harsh chemicals we routinely shove down the barrel of our firearms. Hawkeye users experience "360° inspection of lands and grooves with the clarity of a medical endoscope."

# SAHUARO - 1,000 YARDS

DECEMBER 2017

It was the second Saturday of December, the snowplows had been running hard for hours, highways and interstates were a mess with stranded cars and traffic accidents. Airports were closed and airplanes were grounded. Just after sun up we were in position, getting ready for the monthly Sahuaro match, bundled up in jackets, hands shoved in our pockets against the cold. But by the way, we didn't have any snow, that was the east coast. We were trying to withstand 40 degree temperatures in the morning which by noon had quickly warmed up to 73 degrees, T-Shirt weather!

We had another experienced group of shooters show up to once again try their hand at shooting small groups and high scores, and that is just what ensued. The conditions co-operated to some extend, at least during the first and second relays. There were times when the flags were hanging so still that some were wishing for a little breeze to move the thermals around a bit.

Light Gun, in relays 1 and 3 produced a total of 24 sub-MOA groups and the top eight shooters all had sub-MOA aggregates.

Leading the way with small group was Ed Schwenn with his 4.68" group. He finished with a 7.5" aggregate and John Benz was only .06" behind him. Both very nice, but not enough to beat Jerry Riesdorff's two six inch and one seven inch group for a 7.14" aggregate to take first in Light Gun Group. Along with Jerry, Job Benz, Steve Everson, Wayne McDonald and Ross Herrick had all three of their targets being sub-MOA groups. That's some great 1,000 yard shooting.

The good conditions held somewhat for relay three with the wind picking up to 6 to 8 mph. In Light Gun Score, the top three shooters (all in relay 3) had a 135, but Steve Everson had no X's, Jon Benz had one and Pat Billotte had two, winning him first in Score. That's close! Highest single target also went to Pat with his 49-1X.

By relay 4 it was now blowing at 12-15 mph. A full value 3 o'clock wind that surprisingly held pretty steady.

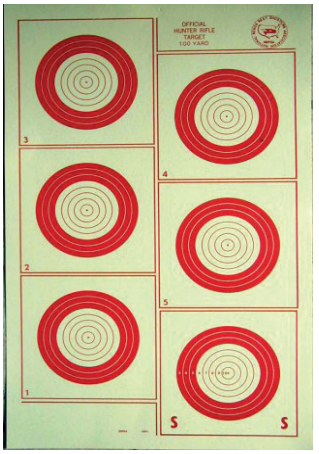
Heavy Gun was equally interesting with 8 sub-MOA, ten shot groups, but only one sub-MOA aggregate. That went to Ed Schwenn who was the only one with two groups below the ten inch mark giving him first place in Group with an 8.83" aggregate. It was Jerry Riesdorff who had the smallest ten shot target with his 6.75" group.

Heavy Score saw the top three shooters only two points apart, but John Benz, shooting in relay 4 took top honors with his 265. Five targets had a score of 90 or higher, although Ross Herrick, also in relay 4 had the highest single target with well centered 95-2X.

That wrapped up another fun shooting match and the last one of 2017. There is room for a few more shooters if you would like to come down and try your luck on the second Saturday of every month.

Contact match director Karl Hunstiger or just show up at the Three Points Range on the Ajo Highway, 30 miles west of Tucson, Arizona. It is definitely a nice place to be in the winter time.

*~Dale Arenson*



## LIGHT GUN

Jerry Riesdorff .....7.15"
Ed Schwenn .....7.50"
John Benz .....7.56"
Steve Everson .....8.48"
Wayne McDonald .....8.60"

## SMALL GROUP

Ed Schwenn .....4.6875"

## LIGHT GUN TOTAL SCORE

Pat Billotte ..... 135-2x
John Benz..... 135-1x
Steve Everson..... 135-0x
Wayne McDonald ..... 130-0x
Bill Warner..... 123-0x

## HIGH SCORE

Pat Billotte .....49-1x

## HEAVY GUN

Ed Schwenn .....8.83"
Jerry Riesdorff .....10.92"
Dale Arenson .....12.29"
Ross Herrick .....12.40"
Lon Persun .....12.52"

## SMALL GROUP

Jerry Riesdorff .....6.75"

## HEAVY GUN TOTAL SCORE

John Benz..... 265-0x
Jerry Riesdorff..... 263-0x
Dale Arenson..... 261-1x
Ross Herrick..... 257-2x
Kim Krueger ..... 252-1x

## HIGH SCORE

Ross Herrick .....95-2x

*LEFT-RIGHT: Pat Billotte, John Benz, Jerry Riesdorff, Ed Schwenn & Lon Persun*

# EQUIPMENT LIST

| NAME | CALIBER | ACTION | BARREL | GUNSMITH | STOCK | SCOPE | CASE | POWDER | BULLET |
|---|---|---|---|---|---|---|---|---|---|
| Krueger | 6Dasher | Pierce | Barthlin | Lil Crow | McMillian | Niteforce | Lapua | Varget | Sierra |
| Herrick (L&H) | 30Patroit | Nesika | Krieger | Riesdorff | Tracker | Niteforce | Lazz | H4831 | JLK |
| Persun (L&H) | 7/284 | Python | Krieger | Riesdorff | McMillian | Niteforce | Win | H4831 | Berger |
| Benz (L) | 6.5/284 | Savage | Krieger | Benz | Savage | Niteforce | Lapua | H4831 | Berger |
| Benz (H) | 7saum | Bat | Krieger | Benz | Leonard | Niteforce | Nosler | H4831 | Berger |
| Schween (L) | 6mm | Borden | Rock | Riesdorff | Shahane | Niteforce | Norma | RL17 | Sierra |
| Schween (H/28) | 6mm | Borden | Rock | Riesdorff | Shahane | Niteforce | Norma | RL17 | Sierra |
| P Billotte (L) | 6.5/284 | Bat | Krieger | Carey | McMillian | Niteforce | Lapua | RL22 | Sierra |
| P Billotte (H/27) | 300wsm | Nesika | Krieger | Carey | McMillian | Niteforce | Norma | H4831 | Berger |
| Warner (L&H) | 6.5/284 | Bat | Krieger | Bruno | McMillian | Niteforce | Lapua | H4350 | Sierra |

# DESERT SPORTSMAN RIFLE CLUB - FEBRUARY 2018

8 brave souls came out to shoot with the temp at 34° bundled up the went to the line, must have bothered some because there was some nice scores. Joel and Dave both cleaned the 100 yd and John cleaned the 200 yd, 5 more shooters missed the mark by 1 point. Come out and watch the match ask some questions, were glad to help and to get some new shooters.

Not a great turn out Sunday it was in the lowers 30's again, I'm glad we had enough shooters for a match.

*~Howard*
*Match director*

### VFS 100 YARDS

Joel Nader ..... 250-20x
Dave Blazza ..... 250-15x
Wayne Christian ..... 249-13x
John Ames ..... 249-13x
Richard Trees ..... 249-09x

### VFS 200 YARDS

John Ames ..... 250-6x
Joel Nader ..... 249-9x
Dave Blazza ..... 248-8x
Wayne Christian ..... 245-5x
Richard Trees ..... 241-4x

### VFS GRAND

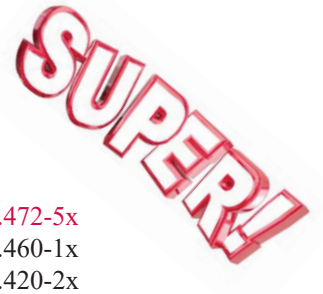
Joel Nader ..... 499-29x
John Ames ..... 499-19x
Dave Blazza ..... 498-23x
Wayne Christian ..... 494-18x
Richard Trees ..... 490-13x

### HUNTER 100 YARDS

Pete Savage ..... 237-4x
Ron Orton ..... 236-1x
Richard Trees ..... 208-1x

### HUNTER 200 YARDS

Pete Savage ..... 235-1x
Ron Orton ..... 224-0x
Richard Trees ..... 212-1x



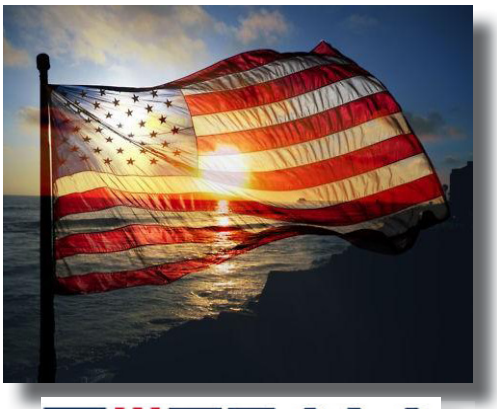

### HUNTER GRAND

Pete Savage ..... 472-5x
Ron Orton ..... 460-1x
Richard Trees ..... 420-2x

# WBC-15 (CANADA) US TEAM POINT STANDINGS

**2019 World Team top 30 standings after two qualifying matches. (Best 1 of 2). The entire list of all competitors is posted on the NBRSA website.**

| WBC-15 (Canada) US Team Point Standings Position | Name | Hi Score | Match |
|---|---|---|---|
| 1. | Wayne Campbell | 140 | Shamrock |
| 2. | Joel Nader | 133 | Cactus |
| 3. | Paul Mitchell | 132 | Shamrock |
| 4. | George Pariso | 130 | Shamrock |
| 5. | Dean Ekstrom | 126 | Cactus |
| 6. | Al Aumen Sr. | 125 | Shamrock |
| 7. | Bob Scarbrough Jr. | 123 | Cactus |
| 8. | Larry Baggett | 121 | Cactus |
| 9. | Andy Shifflett | 121 | Cactus |
| 10. | Billy Stevens | 118 | Shamrock |
| 11. | Harley Baker | 116 | Shamrock |
| 12. | Lester Bruno | 116 | Cactus |
| 13. | Jeff Graves | 116 | Shamrock |
| 14. | Jack Neary | 115 | Cactus |
| 15. | Gary Sullivan | 115 | Shamrock |
| 16. | Gene Bukys | 112 | Cactus |
| 17. | Lee Hachigian | 110 | Cactus |
| 18. | Steve Turner | 108 | Shamrock |
| 19. | Charles Huckeba | 107 | Cactus |
| 20. | Larry White | 105 | Cactus |
| 21. | Bob Hamister | 104 | Shamrock |
| 22. | Mark Engle | 103 | Shamrock |
| 23. | Bud Mundy | 102 | Cactus |
| 24. | Craig Rowe | 101 | Shamrock |
| 25. | Dana English | 96 | Shamrock |
| 26. | Danny Morgan | 95 | Shamrock |
| 27. | Gary Conaway | 93 | Shamrock |
| 28. | Scott Haywood | 93 | Cactus |
| 29. | Darrel Loker | 93 | Cactus |
| 30. | Durward Wofford | 93 | Cactus |



TEAM USA TEAM USA TEAM USA

## "SPECIAL ELECTION" GULF COAST REGION RESULTS

*Mike Bryant has been elected by the Gulf Coast members as their new Regional Director. He will complete the remainder of the term left by the resignation of Scott Hunter, effective immediately. His term will expire in 2019.*

Mike Bryant

*Dickie Pustejovsky has been elected by the Gulf Coast members as their new Alternate Regional Director. He will complete the remainder of the term left by Mike Bryant, effective immediately. His term will expire in 2019.*

Dickie Pustejovsky

*Congratulations to both of these gentlemen. Thanks to all of the members that participated in the election.*

# SOUTHWEST LOUISIANA FEBRUARY 18, 2018

Fifteen shooters were in attendance for the Southwest Louisiana (SWLA) Rifle and Pistol Club's second match of 2018, which was held on February 18, 2018.

We had great weather in the mid-60 degree range, but had springtime switching winds which played havoc with the 200 yard match.

The 100 yard match was won by Ray Perry with a score of 250-20X's followed by Clayton Gray's 250-20X's in second place and Gardner Rose with 250-18X's for third place.

With switching winds, for the 200 yard VFS match, the "X" count went to the winds with Clayton Gray taking first place with a 250-5X's. Bobby Ayo took second with a 247-10X's followed by Larry Dees scoring 246-6X's.

The Grand Agg was skillfully won by Clayton Gray with the only 500 count with 25-X's.

Ray Perry, with the will to persevere, had the high "X" count of 26.

We awarded two NBRSA Score Screamer Awards for the 100 yard match. Ray Perry and Clayton Gray both had a 250-20X score.

As always, we give a special thanks to all attendees, all of whom assisted with the match chores and as a result a good time was had by all.

*LEFT-RIGHT: Bobby Ayo, Ray Perry, Clayton Gray, Gardner Rose and in Front - Larry Dees*

## NORTH CENTRAL REGION SHOOTER OF THE YEAR

**NBRSA North Central Region Director Terry Meyer and Dave Brooks have joined forces to name a North Central Region Shooter of the Year for 2018.**

**This is a NBRSA-Sponsored event. Shooters must live in the North Central Region, a current member at the time of the shoot.**

**Points will be awarded towards the award as follow:**
**Points will be based off a single gun grand, LV OR HV.**
**First place will be awarded 10 Points, Second place 9 Points etc. etc...**
**Trophy will be awarded after the August 18/19 match in Minnetonka.**

**The following are the qualifying Matches:**

| *Oakhill* | *Webster City* | *Minnetonka* |
|---|---|---|
| *June 16th LV* | *July 28th/29th* | *August 18th/19th* |
| *July 15th HV* | *July 28th/29th* | *August 18th/19th* |

*Hope to see ya all their from the North Central Region.*

*~Dave Brooks*

## EQUIPMENT LIST

| Name | Caliber | Action | Barrel | Gunsmith | Stocker | Scope | Powder | Primer | Bullet |
|---|---|---|---|---|---|---|---|---|---|
| Ray Perry | 30BR | Bat | Lilja | Self | Robertson | Nightforce | H4198 | Fed | Old Chism |
| Clayton Gray | 30BR | R.F.D. | Bartlein | Hoehn | Robertson | Leupold | Lt32 | Fed | Berger- |
| Gardner Rose | 30BR | Bat | Bartlein | Brackney | Scoville | Leopold | H4198 | Rem | EBR |
| Kenny Kuperman | 30BR | Bat | Bartlein | LA Precision | TMBR | Nightforce | H4198 | Fed | 10X |
| Larry Dees | 30BR | Farley | Kreiger | Pat Barns | McMillen | Leopold | H4198 | Wolf | Cheeks |
| Bobby Ayo | 30BR | Bat | Bartlein | Gerica | McMillen | Nightforce | H4198 | Fed | Bibs |
| James Hoffpauir | 30BR | Bat | Bartlein | Brackney | Scoville | Nightforce | H4198 | Fed | Bibs |

### 100 VFS

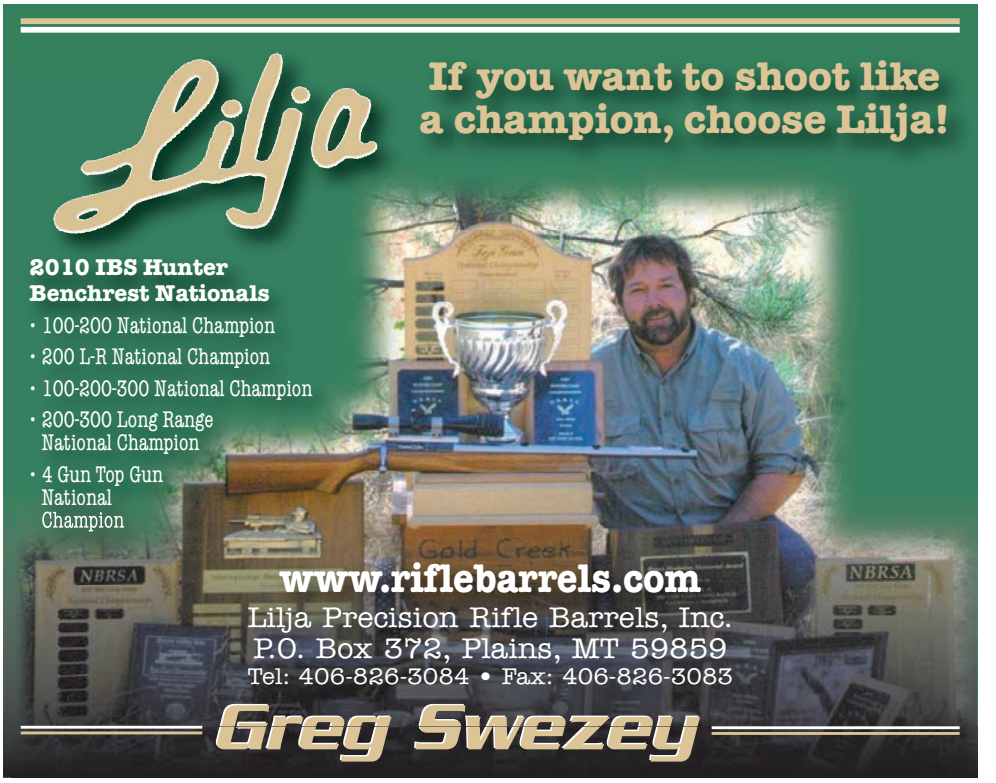
Ray Perry .....250–20x
Clayton Gray .....250–20x
Gardner Rose .....250–18x
Kenny Kuperman .....250–17x
Larry Dees .....250–15x

### 200 VFS

Clayton Gray .....250-05x
Bobby Ayo .....247-10x
Larry Dees .....246-06x
James Hoffpauir .....246-03x
Gardner Rose .....245-03x

### GRAND AGG

Clayton Gray.....500-25x
Bobby Ayo.....496-24x
Larry Dees.....496-21x
Gardner Rose .....495-21x
James Hoffpauir .....495-19x



## Hydro Bullet Seater with extended base and interchangeable loading blocks

Our New 21st Century Reloading Hydro Bullet Seater is designed for bullet seating with hand dies. Height adjustment is a simple twist of the knob with very little effort. With this press you will receive the feedback and data to help control neck tension. Unique design for the field or bench. No need to bolt or fasten to bench. Extended base also available with the New Generation Press.

Precision Products for the 21st Century Shooter/Reloader

260-273-9909

www.21stCenturyShooting.com

Century Shooting Inc.

Made in the USA

Find us on Facebook | Enter **FBOOK10** and receive 10% off order

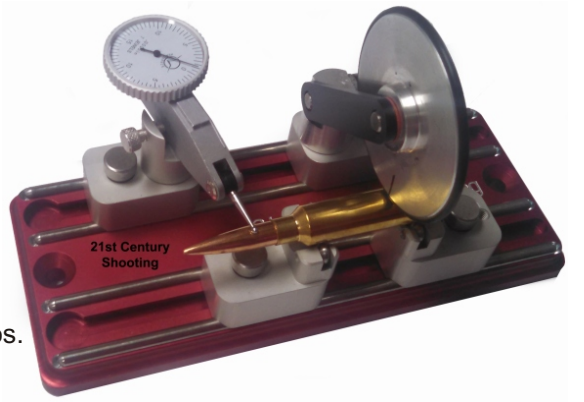
Made In the U.S.A.

## Click Head Stainless Steel Bench Rest Quality Primer Tool

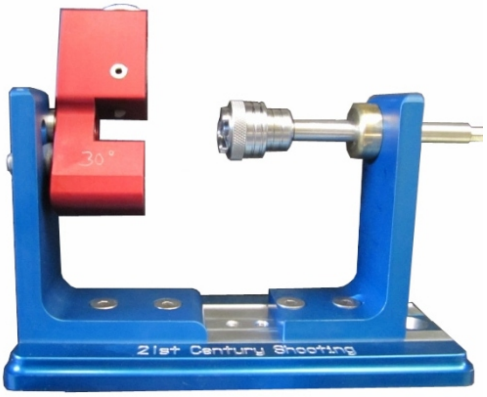
The feel, the precision, the quality and the ease of adjustment of this tool are unique. Features include click head adjustments for precise primer seating and all stainless steel components with aluminum handle.

## Concentricity Gauge with wheel

This device enables the user to rotate the case one complete revolution with about 1/8 of a turn on the wheel. Providing consistent pressure on the case. Easily retrofits in a snap to the 21st Century Shooting Concentricity Gauge (run out gauge - as shown). Features include canting to the left or right to keep the base of the case rotating against the stop. For unlimited setup scenarios. Simply amazing!




## Neck Turning Lathe




The floating design of our neck turner and the universal floating case driver allows the case mouth (bore) to run on the arbor absolutely concentric. Therefore allowing O.D. to be turned concentric with I.D. The tail-stock creates a horizontal inline support for the base of the case. Also allows the operator to keep both hands on the power screw driver or drill. This makes it very easy to control feed rate of the cutting operation, generating a very fine turned finish. Case holder drivers are designed to be the most gentle driver, yet providing an adequate hold.

DOES NOT DRIVE OFF THE PRIMER POCKET
NO PRIMER POCKET OR CASE DAMAGE.
Driver shaft is hexed to use power screw driver or drill.
17cal. Fireball to a .416 Rigby. Also 50cal.

**www.21stcenturyshooting.com**
**260-273-9909**

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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
Phone: 814-837-9644
Email: stimpano@verizon.net

### Shelby Cnty Deer Hunter Assn
7988 Johnston-Slagle Rd. Sidney, OH. 45365
Phone: 937-492-2972
Contact: John Petteruti
Phone: 937-654-7950
Email: jpetteruti@woh.rr.com

### WWCCA
6700 Napier Rd. Plymouth, MI. 48170
http://wwcca.com
Contact: Dana Raven Phone: 734-748-5394
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

### North Texas Shooters Assn
10948 Rector Rd. Sanger, TX. 76266
*GPS: N33 19.351 W97 08.938*
www.shootntsa.com
Contact: Michael Stinnett
Phone: 214-794-8006
mkstinnett@gmail.com

### 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
PO Box 518 Lake Charles, LA. 70602
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*
*Phone: 806-794-8964*
*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
Contact: Scott Moser Phone: 612-961-6761
Email: samoser@comcast.net

### 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

# Ranges, Clubs, and Contacts

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

### 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
Phone: 970-224-3740
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.sacvalley.org
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
www.visaliasportsmans.com
Call: Dennis Thornbury 559 432-4401 559 280-6243
gunhandler@gmail.com

## Officers

**Gene Bukys, President**
591 FM 2402, Eden, TX 76837
713 299-9420 egb243@msn.com
Term Expires 2018

**Vice President**

**Larry Costa, Financial Officer**
2610 Ranch Club Blvd, Myakka City, FL
C: 941 928-2445 Term Exp 2018
hilariocosta1@aol.com

## Committees

***World Records Committee: Group***
Don Creach, Chairman
5498 NW Browning Dr, Kingston, MO 64650. PH: 816 586-9475
Kent Harshman, Committee Member
Ron Hoehn, Committee Member
Lowell Frei, Committee Member

***World Records Committee: Long Range***
Bill Johnston, Chairman
7425 SE Madison Ave, Prineville, OR 97754 - 503 568-5199 billhonda65@gmail.com
Karl Hunstiger, Committee Member
Bruce Bangeman, Committee Member
Richard Schatz, Committee Member
Gary Childs, Alternate Member

***World Records Committee: Score***
Rich Carpenter, Chairman 307 265-8667
PO Box 425, Evansville, WY 82636
box425@bresnannet
Wayne Corley, Committee Member
Mike Guillot, Committee Member
Dan Zaccanti, Committee Member
Ron Powell, Committee Member

***International Representative***
Wayne Campbell
264 Benchrest Ln, Concord, VA 24538
H: 434 993-9201 C: 434 665-2066
wcppc@icloud.com
Varmint For Score Rep (SW Region)
Keith Myers 702 217-3591
keithmyers@yahoo.com

## Regional Directors

**Eastern Region** **Exp 2018**
*Jack Neary, Director*
6204 Wild Oak Dr. North Olmstead, OH 44070 H: 440 716-0600 C: 440-590-5299
*jrneary@hotmail.com*
Alternate: Stan Buchtel
5735 Sherwood Forest Dr.
New Franklin, OH 44319
330 882-6877 *sbuchtel@neo.rr.com*

**Gulf Coast Region** **Exp 2019**
*Mike Bryant, Director*
7761 FM 592, Wheeler, TX 79096
806 826-5958 *bryantcustom@gmail.com*
Alternate: Dickie Pustejovsky
201 Westridge, Huntsville, TX 77340
936-291-9972 ddrep@sbcglobal.net

**Mississippi Valley Region** **Exp 2018**
*Bud Mundy, Director*
314 805-1313 5956 Old Hickory Trail
Hillsboro, MO 63050 *bcmundy@earthlink.net*
Alternate: Bob Hammack
217 494-3582 *rdhammack@msn.com*

**North Central Region** **Exp 2019**
*Terry Meyer, Director*
PO Box 52 Thornton IA 50479
H: 641 998-2860 C: 641 425-3397
td*meyer6ppc@gmail.com*
Alternate: Chris Harris
1102 Page Drive S. Fargo, ND 58103
701-729-2929 *chris.harris@chtrade.com*

**Mid-Continent Region** **Exp 2019**
*Don Creach, Director*
5498 NW Browning Dr. Kington MO 64650
H:816-586-9475 *dcjcreach@aol.com*
Alternate: Cliff McNairy
29233 Valley View Rd
720-480-9213 *zacharymcnairy@yahoo.com*

**North West Region** **Exp 2019**
*Dan Zaccanti, Director*
1542 Tacoma Ave. Bridgeport, WA 98813
509 733-1003 *zaccs@televar.com*
Alternate: Larry Boers
130 Morton Rd Winlock Wa. 98596
360-957-2185 llboers@msn.com

**South East Region** **Exp 2018**
*Steve Lee, Director*
1689 Monteagle Dr. Hoover, AL 35244
C: 205 317-6510 *sclee6ppc@gmail.com*
Alternate: Jeff Thompson 434 944-8595
*flifour@aol.com*

**South West Region** **Exp 2018**
*David Woodward, Director*
34 W Desert Knoll Pl. Oro Valley, AZ
May-Oct 307 455-2296/Nov 7-Apr 520-219-0189 *dwoodward@dteworld.com*

**European Region** **Exp 2018**
*Jean-Marie Deletang*
15 Rue des Martyrs Beausoleil, 06240 France *redneckbr@neuf.fr*

## Staff

**Business Manager, NBRSA**
*Pam Campbell*
PO Box 349
Concord, VA 24538
Office: 434-993-9201
nbrsa@icloud.com

**Editor & Advertising**
*Nancy Scarbrough*
544 N. Buys Rd.
Muskegon, MI. 49445
Phone: 231-519-2822
Email: nancyjoj12@gmail.com

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