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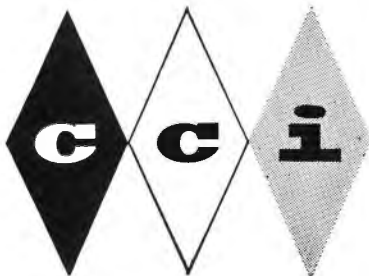
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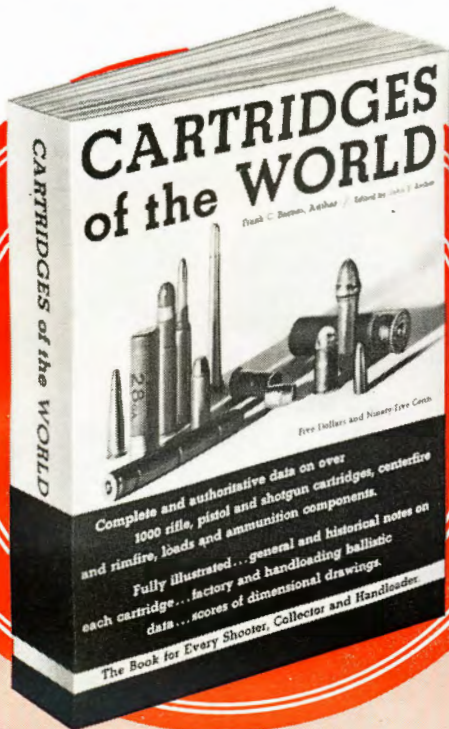
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KNOW YOUR LAWMAKERS

Senator Milward L. Simpson Wyoming



The Second Amendment is unequivocal. It speaks of a basic right which "shall not be infringed." This does not mean that local governments cannot establish regulatory statutes controlling some aspects of the use of guns. They are, after all, potentially lethal weapons. However, the Second Amendment pertains to "the right . . ." which by its very nature demands responsibility as well as champions.

There are interests in the United States that would like to see us disarmed personally, tactically, and strategically, and I think personally that all of these

individuals have much in common.

Representative O. C. Fisher 21st District, Texas

I am very much opposed to any legislation which is designed to infringe upon the right of the people to keep and bear arms. This applies to militia of the State and also to the private individual, subject, of course, to the right of the States to control abuses such as carrying concealed weapons, shooting from highways or elsewhere that might endanger the rights of others. I take a dim view of proposals that the federal government require registration of firearms. As I see it, any control or regulation of the exercise of the right of the people to keep and bear arms should be rigidly protected, and any control and regulation that might be desirable should be assumed by the States and local governmental units.



Congressman Charles A. Mosher 13th District, Ohio

I greatly appreciate your generosity in offering me an opportunity to state for publication my interpretation of the Second Amendment to the Constitution . . .

However, it happens that I am not a "shooter" and that I have not given sufficient attention to the Second Amendment to warrant any statement on my part—therefore, I must decline with thanks.



Congressman Walter Norblad 1st District, Oregon

May I stress that I am a strong believer in individual freedoms and hold as inviolate the right of the people of this country to own and possess guns and to use them for any lawful purpose, as guaranteed in the Second Amendment to the Constitution. I have worked in the past to preserve the right to own and bear firearms and you may be assured of my continued support of this freedom.

Readers Note: All Congressmen may be addressed at "House Office Building," and all Senators at "Senate Office Building," both at "Washington 25, D.C." Address all Governors at: State Capital, name of capital city, name of State.

Guns

FINEST IN THE FIREARMS FIELD

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R. A. Steindler.....Managing Editor
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THE COVER

Photograph was taken by Erwin A. Bauer in the Yukon after a successful moose hunt. Camera was a Hasselblad 500 C with 150 mm lens. Professional Ektachrome film was exposed at 1/125 second at f 5.6. Gun carried by guide is a Remington Model 725 in caliber .280 with a 4X B&L scope.

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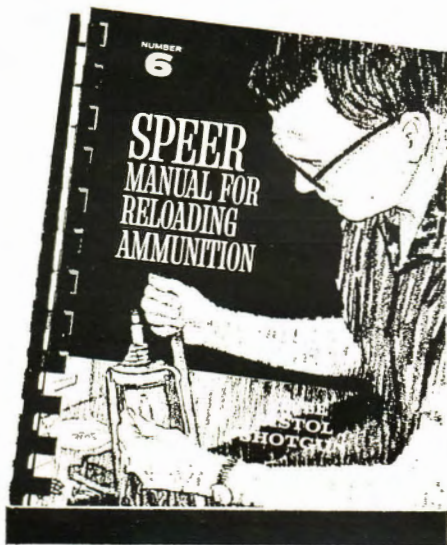


EDITORIAL OFFICES: R. A. Steindler, Jerome Rakusan 8150 N. Central Park, Skokie, Ill., Orchard 5-5602. E. B. Mann, 1020 Parkland Pl., S. E., Albuquerque 87108, N. M., Kent Bellah, St. Jo, Texas.
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PLUS SPECIAL COMMENTS ON TIMELY SUBJECTS BY

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HANDLOADING BENCH

By KENT BELLAH



I HAVE NEVER KNOWN a handloader who was bored. All normal red-blooded men have a healthy, wholesome interest in guns and reloading. So do many women. About half the high school girls in my town are interested. I think guns and loading equipment for teen-age boys and girls is a worthwhile investment for happier youngsters, it helps to make better adult citizens.

Forster-Appelt has a new \$10.95 Therm-O-Matic Shotgun Former that is a dandy. You dial the desired heat to re-form the crimp section on 12 ga. paper or plastic tubes. Different types of plastic use low to medium heat. Paper tubes use higher heat. Working temperature is reached in about 5 minutes.

The Therm-O-Matic Former maintains the correct heat for perfect conditioning. Ten large dots and 24 graduations go from "Off" to "Max" on the dial. You should sort plastic hulls by type, and try the pointer on the third dot. For all paper tubes try the seventh dot. Test several shells to find the best setting for each type. Remember the setting, or mark it. Press shells over the tapered core, twist and remove. Cooled shells are almost as stiff as new. Two seconds is about right to redistribute wax in paper layers, or to form plastic.

High heat melts plastic, and low heat is too slow. To re-wax very soft paper tubes touch grocery store paraffin to the Former Core occasionally. For imperfect crimps (a major fault in reloads) remove only the shot and condition the shell mouth. There is no danger. This is the best shell former we have ever used. The Forster Precision Case Trimmer is the best and most versatile we have used to condition rifle and pistol cases for better accuracy and perfect functioning.

C-H's 907 Shellmaster, at \$69.95, is the best and fastest shotgun loader C-H has ever made. It's well worth the \$10 more than the good C-H 904 Shellmaster, that has many of the same features. All operations end on a dead stop for uniformity. With only 3 stations, operation is simple and easy. The highly desirable shot and powder charge inserts are only \$1 each. They throw extremely uniform charges, and fit all other C-H Shellmasters. The loader has a new shell crimp starter at no extra charge. This is a good tool for a novice or "old hand," with clear, easy to understand instructions.

The large hopper assembly removes, to return powder and shot easily to original containers. Another worthwhile feature is that any single operation can be performed whenever desired. Manual charging eliminates goofs. Sizing, crimping, and primer seating are excellent for perfect functioning

in all type guns. Wad pressure is adjustable. The tool is well made and very sturdy. A change over to 12, 16 or 20 ga. costs \$21. We loaded at the rate of 6 boxes per hour. If you load at half that speed you get nearly 2 free boxes of shotshells per hour, which is good pay per hour for having good fun. C-H's 907 is a winner.

The famous "Shooting Linds," Dot & Ernie, opened the Quail Ridge Winchester Gun Club, Lubbock, Tex., in Oct., 1963, with a thousand Bangs! With no pun intended, this third W-W franchised gun club is a booming concern. If the hundreds of thousands of clays that have been broken there had been powdered in one day the smoke would have blotted out the sun like a West Texas dust storm. Shooters have been very happy with W-W Mark 5 shotshells, which has made W-W happy. I agree with their "Man in Africa," who calls them "smashing." You've read about him, unless you read Braille.

Shotshell reloading got a real shot in the arm in the Lubbock area from the W-W gun club. Everyone wins on these deals. We trust W-W continues to accelerate their franchised gun club program.

Alcan's 12 ga. "Flite-Max" wads are fast and easy to load. They give patterns that compare favorably with factory loads, if proper charges are used. These single unit wads have Alcan's famous "Air-Wedge" base with their "Feltan-Bluestreak" fiber wad inside the shot sleeve. For 1½ oz. loads Alcan originally recommended 19.0 to 21.0 gr. Red Dot, or 22.0 to 24.0 gr. AL-120. Alcan has revised the charges down quite a bit, recommending 17.0 to 18.0 gr. Red Dot, or 21.0 to 22.0 gr. AL-120. You should correct all old loading data, and buy proper charge bars or inserts. Don't use old data. Our best target charge is 17.0 gr. Red Dot.

Alcan has .45 Colt shot cartridges, smokeless blanks, and black powder blanks in red plastic cases. Alcan's adapter permits firing all types in 12, 16, or 20 ga. shotguns. In a 12 bore most shot cartridges gave partial or complete separations. At 15 yards the 206 No. 9 shot averaged 68 pellets in a 16" circle, but only 49 completely penetrated a corrugated cardboard. At 10 yards from a 12 bore, or a .45 Colt custom smooth bore shot revolver (that we unfortunately had to register) the cartridges will not break beer bottles or penetrate tin cans. The shotgun was full choke. Our shot revolver has a very full choke device on the muzzle. Either gun kills small pest birds up to 10 yards, but is more efficient at about 21 feet. The blanks make a good report, and the black powder makes good smoke. All shells use shotgun

(Continued on page 12)

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CROSSFIRE

No Regrets

I have been a subscriber to your magazine for about three or four years. I have enjoyed it very much. When you came up with the idea for a Shooters Club of America, I joined it. At that time I didn't know what it would do, but since I was a member of the NRA, and against anti-gun laws, I thought this new club deserved my support and membership. I have never regretted it, and now that your pro-gun law is making such good progress, I take great pride in my membership.

I have a father who collects guns and who also loves to hunt; my brother also is quite a hunter. As we work together, and live close to one another, we all read your magazine and tell every one who will listen what a great job you are doing. In fact, I have convinced two or three that I know of to join the shooters of America in your club. Keep up the good work, we are cheering for you.

Lindsay Coley
McRay, Arkansas

Pro-Gun Candidates

I would like to compliment you on the article by E. B. Mann in the October, 1964 issue. I refer to "Political Candidates and the Pro-Gun Issue." Both the subject matter and Mr. Mann's presentation of it were excellent, and I hope to see more of both.

The same goes for your policy of publishing statements of political candidates concerning firearms legislation. I think it is a very good idea, whether the statements are for us or against us. In either case it would be a big help in determining more accurately which candidate to support and which to oppose.

The "Know Your Lawmakers" department is also very good in this respect. The notices you send out regarding proposed firearms legislation are interesting and of great value.

I hope to see these things continued or expanded in the future.

Elwood Caster
Lacona, N.Y.

Viva Virgines

I am a steady reader of GUNS and have been more than interested in the stories by George Virgines.

His recent article in the November issue, "Guns of The 101 Ranch," is tops. He takes us back to the Old West which was exemplified by the Miller Brothers 101 Ranch Show.

The pioneers of yesteryear like the Miller Bros. and Bill Cody kept alive the old western thrills and excitements with their Wild West Shows.

Freeman K. Teague
Portland, Oregon

Absurd Proposals

The following is quoted from the November 28 issue of the "New York Daily News."

"The State Investigation Commission is worried about lax regulations of ownership of small arms—pistols, automatics, revolvers—in New York State, and feels that we ought to have tighter laws on them.

"Which recalls to our minds the fact that THE NEWS, back in the 1920s, crusaded for really tight small-arms regulation. Our position was; make small arms only in government arsenals; allow only fighting men, police and the like to have them; confiscate (at reasonable prices in payment) all of them now in private citizens' possession; prohibit their further importation.

"Question: Can anybody even now find any major flaws in that proposal?"

This is an example of what we face here in New York relating to gun legislation. News media, strong appointive bodies, and unfortunately, many law enforcement personnel tend to make guns a whipping post. At the same time, they take a very weak stand in relation to drugs, autos, and other items far more destructive. They also, as you have already noted in the case of the shop owner with an unlicensed gun—make self-defense legally unsafe.

I cannot understand the opposition to mandatory heavy penalties for crimes involving weapons, no parole eligibility, and other similar effective restrictions to illegal and/or anti-social use of guns.

J. M. Greenough
Massapequa Park, N.Y.

Anti-Gun Cartoon

Upon opening the November 27 issue of the "Kansas City Star," I found a cartoon which I view with shock, disgust, and genuine anger. It depicts two boys standing in front of a gaudy display of toy guns. One is saying: "Why bother with that stuff when you can get the real thing!"

This is a low blow to reputable gun owners by a man who obviously does not understand the problem. I would implore all who wish to preserve their right to keep and bear arms to write to the cartoonist and inform him of our indignation. They may address him: Bill Sanders, The Kansas City Star, 18th & Grand, Kansas City, Mo.

Leon Bronstein
Kansas City, Mo.

I agree that we should write to Mr. Sanders, but not indignantly. If enough of our readers would tell Mr. Sanders that there

is already a federal law which prohibits the sale of a firearm to a minor, a law which evidently does not work, and that there is no reason to believe that any additional laws would do any better, perhaps he might get the message. Perhaps he will also see that he could make better use of his talents if he were to editorialize on the parents responsibilities in seeing that their children do not get firearms.—Editors

California Laws

The October 20, 1964 issue of the "Los Angeles Times" carried an article concerning firearms legislation proposed by Governor Brown. The most undesirable parts include:

Fingerprinting all handgun purchasers, raising the legal age for the purchase of firearms from 18 to 21, raising the waiting period for a handgun from three to five days, and that California residents should file a purchase order for any concealable firearms bought by mail from out of state with officials of California.

Personally, I deeply object to the implication that I am a criminal. I feel that this is implied because the governor wants to have my fingerprints, and only because I want to shoot a pistol. Also, I object to having to file a purchase order with a state official if I buy a mail order handgun . . . and I bet that this "official" would complain if he had to give me a purchase order for his golf clubs, or maybe his car.

Loren Werner
Costa Mesa, Calif.

Letter Writer

I would like to thank you for informing me about the anti-gun law which Mayor Tate of Philadelphia proposed. I have written to Mayor Tate and the City Council and have received a very nice letter from Mr. Tate thanking me for my letter and urging me to write whenever I disagreed or agreed with any proposal dealing with firearms.

I think Mayor Tate is trying to make a sincere effort to propose useful legislation toward firearms instead of restrictive legislation toward the honest gun owner. I think he realizes that no anti-gun law will stop criminals from possessing or using guns, and these laws would just handicap law-abiding shooters.

John T. Flynn
Chester, Penna.

Help!

Please help me keep my guns. I have never used my guns to do any harm to my fellow man. Owing fine guns and dogs are two of the few real pleasures in life. I wonder what the anti-gun people are thinking of when they propose laws that will disarm the law-abiding citizens of this country. Surely they do not advocate destroying all dogs because a few have gone mad or bitten someone.

Certainly if these people would devote their efforts to proposing laws that would severely punish those who would put guns or other deadly weapons to illegal use, their efforts would be a credit to themselves and a benefit to the nation.

Larry S. Krause
Chicago, Ill.

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BADGER SLING KEEPER Made of special 1 1/4" hard anodized alloy extrusion—black with plated clamp & screw. Postpaid \$1.25.

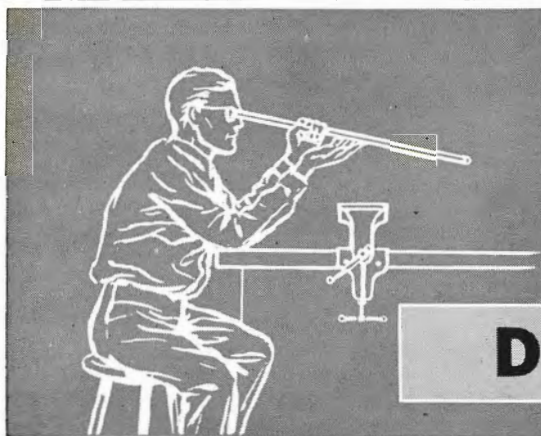
BOLT HANDLES Unpolished \$1.25, Polished \$2.50, Knurled \$3.00. We weld to your bolt body and polish \$8.00, w/knurled handle \$10.00, or alter your bolt for low scope \$6.50. Jewel bolt \$6.50 extra. Buehler Safety \$7.25. Mark II \$4.25. One day service.

FREE CATALOG—Discount sheet ONLY to established dealers and sporting goods stores—we will not honor post card or rubber stamp requests! Phone CAsle 9-2101. (Code 715)

99% Orders Shipped Same Day Received.

BADGER SHOOTERS SUPPLY

Lew Bulgrin, Owner. OWEN, WIS.
Serving Sportsmen 30 Years



For the BEST in production made RIFLE BARRELS

DOUGLAS ULTRARIFLED

STAINLESS STEEL BARRELS
NOW AVAILABLE THROUGH .30 CALIBER

ULTRARIFLED

T. M. REG.
PAT. PEND.

MUZZLE LOADER BARRELS

We are now able to make very good deliveries on muzzle loading barrel blanks. These blanks are made in 32, 36, 40, 45 and 50 caliber. They are all CUT RIFLED with a twist of one turn in 66" and grooves .010" to .012" deep. Lands and grooves are of approximately equal width. The material used is specially processed for our purpose, cold drawn to octagon shape with an especially fine finish that will require little or no polishing. These are available in 1 1/4", 7/8", 3/4", 1" and 1 1/2" at \$29.50 each. We also supply 1 1/2" barrels at \$35.00 each. These blanks are threaded for breech plugs and the DOUGLAS name and caliber is branded on the top flat. Finished length is 42". You may order these barrels with a twist of one turn in 48", 57", or 75" at an additional charge of \$5.00 each. These prices are subject to our regular gunsmith's discount. Write for complete information or order from this ad.

... with these features

- Highest Quality
- Low Cost
- Best Discount to Gunsmith
- Most Calibers 22 to 458
- Chrome-Moly Steel
- Button Rifled since 1953
- Finest Inside Finish
- Record Holding Barrels
- Straightest Sporters

The Douglas ULTRARIFLED* "button rifled" barrel is the finest production made barrel obtainable today. Day after day these barrels insure the attainment of highest accuracy for its owner, are the least trouble and the most profitable for the dealer-gunsmith. You can depend on Douglas barrels.

Write for free descriptive data.

*PATENTED T. M. REG. MADE EXCLUSIVELY BY G. R. DOUGLAS.

"From the rifle barrel capitol of the world"

G. R. DOUGLAS CO., INC.

5504 BIG TYLER ROAD CHARLESTON 2, W. VA.

Ask L. G. Rackel, 1964 Wimbledon Winner,* about Sierra Bullets...



"Your Matchkings were very good to me each time I squeezed the trigger of the .300 H&H magnum rifle in the 1964 National Match 1000 yd. Wimbledon Cup and Leech Cup competitions... A possible 100 with 13 V's in the Wimbledon got me into that shoot-off. In the first shoot-off I compiled a score of 50 and 9 V's. The shot-by-shot shoot-off lasted for 9 rounds in which I took 8 V's and one five. This adds up to 79 Matchkings fired for record at 1000 yards, all of which were in the bulls eye. Of this total 59 went through the V-ring."



This world famous 1000 yd. contest has been won by riflemen using Sierra Bullets in the last 11 out of 12 matches.



Mr. Rackel used Sierra's 190 gr. Match-king H.P. (one of four 30 cal. Matchking Bullets).

SIERRA BULLETS

10532 S. Painter Ave., Santa Fe Springs, Calif.



Sentinel Targets

Jay Gallagher, 23 Pleasant St., Keene, N.H., 03431, recently sent us a batch of his Sentinel Targets. Designed for sighting-in with scoped rifles, we put them through the usual tests and liked them very well indeed. When Marlin's .444 carbine arrived and we put Bob Tremaine to work on the gun, he used these targets too, and liked them well enough to feature one in his article (see page 18). Details on the target are easily spotted at even 200 yards, and you can get a dozen of the targets, postpaid, from Jay for one dollar.

Bushnell Colt Auto Mounts

Last year, Dave Bushnell told us that he was actively working on scoping the Colt automatic, and that, sooner or later, he would be able to lick the mounting problem involved. Well, Dave and his technical staff did lick the problem, and the scope mount that we used with one of Dave's Phantom scopes, stood up under the pounding very well. You should have seen our scores—too bad they won't let me on the firing line with that scoped gun—I could really clean up on the target!

Marlin's Model 99M1

This little semi-auto Marlin carbine is a first cousin of the GI gun, and shoots and handles extremely well. Like all Marlin tubes, this one is Micro-Grooved, is 18 inches long, and the 99M1 is 37 inches long over-all. Chambered for the .22LR, the gun handles 10 cartridges in the tubular magazine, and weight of the empty gun is 4 lbs. 11 oz., complete with sling, but without scope.

Most noteworthy is the re-designed rear sight that is fully adjustable for windage and elevation, and the sight fits on the dovetail grooves on top of the receiver. Tapped and drilled for receiver sights, the receiver is grooved for tipoff scope mounting. The cross-bolt safety is excellent and repeated attempts to jar it loose proved futile. Trigger pull was just slightly under five pounds, and although not in the match class, let-off was smooth enough for any but precision match shooting. Finish of the walnut stock appears to be oil, and is similar to the standard finish used by Marlin on all of their guns.

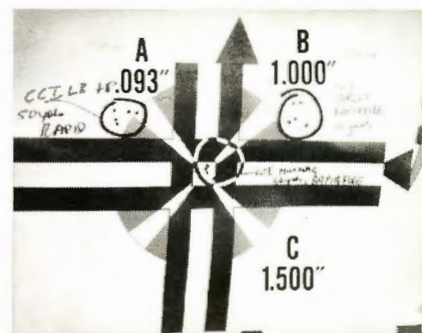
Function tests were conducted with Remington, Winchester, Federal, Eley, and CCI ammo, and in firing over 600 rounds, no malfunctions were encountered. Accuracy of the gun was surprising, and typical were the

groups fired while testing the new CCI ammo. Shooting off-hand, rapid fire from the 50 yard line, groups consistently measured 1.0-1.5 inches. We scoped the test gun with a 4X Marlin scope, found that the combination was a most satisfactory one for plinking, informal target shooting, and knocking off squirrels. Conclusion: A handy, dandy little gun that is just the ticket for plinking and general shooting fun.

CCI Ammo

In February of 1963, CCI of Lewiston, Idaho, began shipments of the first lots of their new LR "Hyspeed" .22 ammo. A year later, the LR "Target" ammo made its appearance, and now there are some new .22 loads available. The .22 hi-vel ammo has now been trademarked as "Mini-Mag," while the standard velocity ammo is known as "Mini-Group." Here is the complete list: Mini-Mag .22 LR and Mini-Mag .22 LR HP; Mini-Mag .22 L and Mini-Mag .22 S; Mini-Group .22 LR.

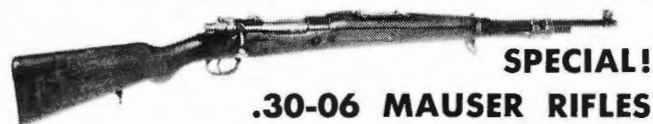
Test ammunition submitted to GUNS Magazine performed exceptionally well in all types of guns, and the target ammo did so well



A—LR,HP; B—CCI Target; C—.22 LR.

that we gave some to a friend to fire in a critical pistol match. Firing at 25 yards with a strong cross wind, using a Browning Medalist, he scored 93x100 with two shots called because of the gusty wind. We did not have the opportunity to chronograph the ammunition, but did run several boxes of each load through a number of rifles and handguns, ranging from the inexpensive plinkers to high grade target guns—in all instances, the ammo did well, providing, of course, the shooter did his share. All in all, another CCI first that will ring the bell for you, the shooter and hunter.

PRICE VALUES OF THE YEAR!



SPECIAL!
.30-06 MAUSER RIFLES

Out of Peru come these beautiful F. N. Mauser Rifles of world renowned Mauser 1924 design, (Improved '98). Originally fabricated in .30-06 cal. for the Gov't. Marked with Great Seal of that Republic. NRA Good to V.G. Cond. \$29.95, \$10 extra for Select. Barrel length 23"; Overall length 43"; Weight approx. 8 1/2 lbs. Original bayonet only \$2.95.

\$29⁹⁵



SPECIAL!
7.65 Cal. PERUVIAN MAUSER Model 1909

Large ring action with special short bolt throw. Guns were made by Mauser Werke, Oberndorf. Features include special medium length action, high clip guide to simplify telescope mounting. Easily converted to other calibers. Grade I, Fair to Good, \$19.75. Grade II, Good to V.G. \$24.75. Grade III, V.G. or Better, \$29.75.

\$19⁷⁵



Cal. .303
SPECIAL!
BRITISH JUNGLE CARBINE

10-shot bolt action, flash hider, 18-inch barrel. Weight 7 1/4 lbs. Guns Excellent to New. These are the last of the surplus Jungle Carbines. No additional supplies available.

\$29⁹⁵



SPECIAL!
Original, Genuine G.I. CARBINES .30 Cal.

These were originally designed by "Carbine" Williams for Winchester, were one of first short, light weapons for new assault cartridges. These original carbines mfg. to U. S. Gov't Ordnance specifications.

\$49⁹⁵



A MARS SPECIAL !!
REVOLUTIONARY WAR 1776 FLINT HORSE PISTOL CAL. .69

The astonishing popularity of this replica of the famous British Tower flintlock pistol as issued during the reign of George II and George III. Brilliant burnished steel barrel and lock, genuine walnut finished stock, solid brass butt cap and mountings, these are visually a "knock out". We sell these smoothbore Cal. .69 pistols for decorators.

GR III Tower
\$29⁹⁵



BERETTA MODEL 948

.22 Cal. L.R. Thumb safety, sensitive trigger pull, lightweight.

Beretta Model 1934, .32 Cal., \$24.95
Beretta Model 418, .25 Cal., \$19.95



.32 Cal. BROWNING

Model 1922. Large auto pistol used as Martial and Police weapon because of high degree of reliability, accuracy. Quality, dependability guaranteed by mfg. standards of maker - F. N. \$23.75



.25 Cal. WEBLEY

Small, compact, gem of production & finish. One of first small .25 cal. autos to have popular external hammer. First convenient .25, like the large .32, constructed with maximum attention. \$21.75. \$21.75. \$24.95.



French MAB Model D

.32 Cal. auto. Represents best principles of design combined with improved post war quality. Uses standard .32 auto shells. Model C .32 Cal. Auto same as Model D but smaller. \$23.95. \$22.95

Condition of Pistols Very Good. All Pistols Shipped REA Express. No COD's

AMMO SPECIALS

- .30-06 American '53-'54. \$6.95 per 100
- Case lot on above in sealed bins...384 rds. \$19.95
- American A. P.\$3.95 per 100; \$29.95 per 1000
- American Tracer\$3.95 per 100; \$29.95 per 1000
- F. N. Blanks.....\$2.95 per 100; \$19.95 per 1000
- Loose F. N. Ball.....\$3.95 per 100; \$29.95 per 1000
- Argentine Tracer.....\$4.95 per 100; \$39.95 per 1000
- American Tracer nc \$4.95 per 100; \$39.95 per 1000
- American A.P.\$5.95 per 100; \$49.95 per 1000
- Incendiary n.c.\$5.95 per 100; \$49.95 per 1000
- Italian.....\$2.95 per 100; Sealed cases, 2000 rds. per case.....\$39.95
- Canadian boxer primed non-corr.....\$3.95 per 100; Cases of 3840 rds. per case.....\$99.95

- .303 British Military \$5.50 per 100; case lot 600 rds. in reusable metal box.....\$28.95
- .7.65 n.c. FN 57 ball.....\$6.95 per 100; \$50 per 1000
- 7.65 n.c. FN Soft Point hunting loads.....\$9.95 per 100; \$44 per 500

MARS EQUIPMENT CORP. 3318 WEST DEVON AVE., CHICAGO 45, ILLINOIS

MODERN BLACK POWDER SHOOTERS \$59⁹⁵ each
ALL PISTOLS AND REVOLVERS ONLY



HARPERS FERRY FLINTLOCK PISTOL

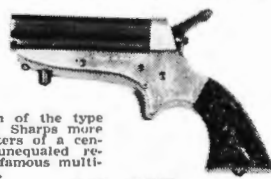
Model 1805 - Dated 1807. Made for the Army at Harpers Ferry Armory. First U.S. Pistol to be mfg. at a National Armory. U.S. Army Police adopted it as their insignia. Flintlock is 16" long, has round steel barrel 10" long. Has rifled bore in .54 Cal., varnished wood, brass mountings. Case hardened lockplate. Marked with spread eagle, U.S. & "Harpers Ferry 1807".



Engraved Scene NEW MODEL ARMY

1860 Colt New Model Army .44 Cap and Ball Revolver. Completely proofed for better & safer shooting. 8" barrel, walnut grips, blue finish, round cylinder. Now special finely engraved cylinder at no extra charge.

.22 cal. SHARPS DERRINGER



4 barrel weapon of the type originated by C. Sharps more than three quarters of a century ago. An unequalled reproduction of a famous multi-barreled weapon.

\$24⁹⁵

.36 cal. BRASS NAVY



A fine reproduction of a famous model .36 cal. Navy, brass framed, percussion revolver. Made in Italy, fully proofed.

\$39⁹⁵



VIRGINIA FLINTLOCK PISTOL

Virginia pistol is patterned after the Harpers Ferry with slight changes as a swivel ramrod which proved stronger, grips & brass buttcap are slightly shorter. Pistol has rifled bore in .54 cal., varnished wood, brass mountings. Lockplate is case hardened, marked with "Virginia" & "Richmond 1812".

Guns shipped Exp. Unless Postage is with Order.

CENTENNIAL ARMS SPECIALS

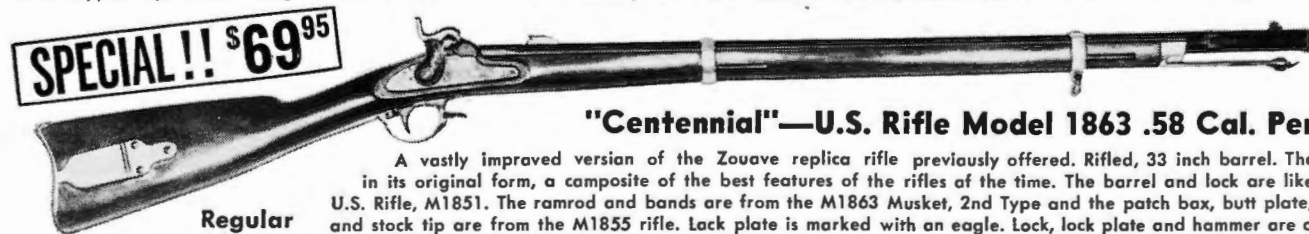
Large Pistol Powder Flask for .36 and larger cal. revolvers. Made in copper just like the original. \$9.95

Small Pistol "Eagle" Flask for .31 cal. or smaller. \$8.95

.44 cal. Iron Bullet Mould, specially made for Centennial Revolvers of .44 cal. \$9.95

Special Find!
Brand New never used Civil War lock plates. One from Starr Carbine, one from Mass Arms Co. With a Maynard Tape Primer. Very limited supply. \$28.50 a pair. Unused with all original case hardening intact, exported to England.

\$28⁵⁰ a pair



"Centennial"—U.S. Rifle Model 1863 .58 Cal. Percussion

A vastly improved version of the Zouave replica rifle previously offered. Rifled, 33 inch barrel. The M1863 was, in its original form, a composite of the best features of the rifles of the time. The barrel and lock are like those of the U.S. Rifle, M1851. The ramrod and bands are from the M1863 Musket, 2nd Type and the patch box, butt plate, guard, stack and stock tip are from the M1855 rifle. Lock plate is marked with an eagle. Lock, lock plate and hammer are case-hardened in mottled colors. Blue-black barrel. Trigger, band springs, and all screws are blued. Butt plate and other fittings in brass. Sights: front blade, rear-3-notch type graduated in 100, 200 and 300 yards increments. (REPLICA - NOT ORIGINAL)

Regular \$125

CENTENNIAL ARMS CORP. 3318 West Devon Ave., Chicago 45, Illinois

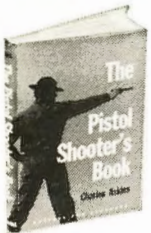
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THE BEST IN FIREARMS BOOKS

Order for yourself . . . gifts for your friends!



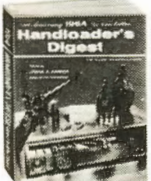
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Revised and enlarged by Joseph E. Smith. The most authoritative reference ever published on military small arms. Special emphasis on U.S. and U.S.S.R. weapons. 711 pages, more than 1700 illustrations covering identification, calibers, ammunition, stripping, assembly, safety and history.
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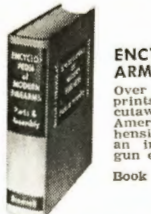
THE PISTOL SHOOTER'S BOOK by Col. Charles Askins.
A noted expert shares his wealth of gun handling "savvy" with you. A book that will definitely aid you in becoming a better shot, perhaps even a champion. Authoritative description of methods, techniques, handguns of all types. Knowledgeable shooters will need this book. For the beginner and expert alike.
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1965 GUN DIGEST edited by John T. Amber.
More than 380 giant pages for hunters, target shooters, collectors and handloaders cover every facet of guns and shooting. Up-to-the-minute catalog shows latest prices on all modern domestic and imported firearms, ammunition, scopes, accessories. **PLUS TWO SPECIAL BONUSES:** New 32-page section on antique guns and 32 pages on reloading.
\$3.95



NEW! 2nd ANNUAL HANDLOADER'S DIGEST Edited by John T. Amber
Important 1964 manual for re-loaders contains ABC's for rifle and handgun, data on how to start handloading, plus up-to-the-minute articles by foremost world authorities; new catalog section lists components, books, manuals, chronographs; revised data included in Case Dimension Chart, Bullet Energy Table, Die and Shell Holder Chart and Maximum Load Tables.
\$2.95

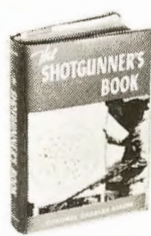


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Over 1,600 exploded view photos, blueprints, sketches, schematic drawings, cutaway photos of thousands of modern American-made guns. The most comprehensive book of its kind ever published—an indispensable guide for every avid gun enthusiast. 1,066 pages.
Book bound **\$20.00**

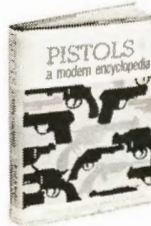
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Shelley Braverman's extensive catalog of obsolete gun parts; guaranteed to fill your need.
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Magnificent book custom-bound in hard covers contains 530 pages, original exploded isometric drawings, world-famous "Pistol Atlas" and much more!
Now reduced to . . . **\$11.25**

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A colorful and dramatic book for the Civil War buff and arms man regardless of his specialty. Above all it is a story of America for all Americans. In 36 chapters, 444 pages, this fascinating book brings you the complete and exciting story of all the guns used in the Great War Between the States, Confederate and Federal. This is the first time such voluminous facts have been brought together in one lucid, readable and unhurried volume.
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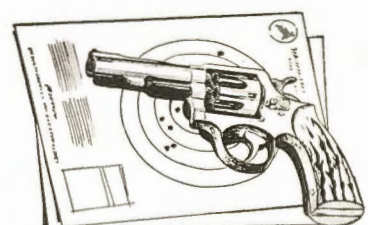
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Special price for set:
PISTOLS WITH RIFLES, A MODERN ENCYCLOPEDIA
Two \$12.50 books for **\$16.50**



THE BOOK OF PISTOLS AND REVOLVERS by W. H. B. Smith.
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Special price for set:
BOOK OF RIFLES (W. H. B. Smith) and BOOK OF PISTOLS AND REVOLVERS
Two \$12.50 books for **\$16.50**



(Continued from page 6)
primers and are not reloadable. My own .45 Colt shot loads listed in past issues are more efficient.

Here's my improved .45 Colt shot load, that works well in rifled barrels. Charge primed cases with 7.0 gr. Bullseye. Make a .452 wad cutter punch, or have a shop make one. Cut very thin card wads and 3/16" felt wads. Use a wooden dowel to seat a card wad and a felt wad over the powder with about 10 pounds pressure. Fill the case nearly full of Illinois Long Range Copper Plated 7 1/2 shot. Seat a .454 gas check skirt down and crimp heavily. Or seat a thin card wad, crimp heavily, and fully seal the wad with white glue. These loads dump most of the charge in 10" at 21 feet.

Plated shot eliminates bore leading and patterns better. No. 7 1/2 shot kills better than smaller sizes. Use the same powder charge

and loading technique for a .44 Magnum, with wads cut .428 and .430 gas checks. These loads are fine for snakes or small game at close range, and are quite safe in settled areas. You can learn fast, deadly aerial shooting by practicing on tin cans tossed in the air. You can soon switch to bullet loads and hit a can nearly every shot. It's good fun and will amaze your friends. When you can hit running game and aerial targets with a handgun you are a darn good practical shooter, and you'll have a great deal more respect for the short tube.

The new Du Pont "Hi-Skor" 700-X shotshell powder is a double base type, especially desirable for 1 1/8 oz. loads at 1150 to 1200 fps in a 12 bore. Our tests indicate it will make a real hit on targets and game. It takes a good shotshell powder considerable time to become popular, as shooters are not quick to change from powders that have given them good results.

Hi-Skor 700-X may be an exception. You'll like it with Du Pont's listed charges and technique. Don't forget to adjust your loader for no wad pressure. Don't try to "improve" loads with heavier charges. Du Pont has revised and reduced shotshell charges, and changed wad pressure, for today's improved components. Ask them or your dealer for their new free data sheet A-36685. Mark old data "OLD" in big letters, and buy new charge bars or inserts for your loader. New R-P shells use standard size primers. CCI 209 primers fit old or new R-P shells, as they were designed to expand old bastard pockets to standard W-W and Federal size. They fit all standard shells.

For 16 years I've had fun calling varmints with the \$3 Weems Wild Call, made by Wayne Weems, Box 7261, Ft. Worth, Tex.

CLIP COUPON AND MAIL TODAY!

Book Dept., GUNS MAGAZINE, 8150 N. Central Park Ave., Skokie, Ill. G-3a
Enclosed is \$_____ in full payment for the books I have checked below. I understand you will pay postage.

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- \$15.00—SMALL ARMS OF THE WORLD
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 - \$20.00—ENCYCLOPEDIA OF MODERN FIREARMS
 - \$ 4.00—FIREARMS HANDBOOK

- \$11.25—FIREARMS ENCYCLOPEDIA
- \$15.00—CIVIL WAR GUNS
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NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____

Please allow 10 days for delivery

His \$4 Dual Tone is better. By blowing hard it brings varmints from great range. Then close the end with your finger and gently blow the "Coaxer" to bring shy varmints into handgun, shotgun or camera range. Weems' new \$5 Dual Tone All-Call is a deluxe model with 3 "voices." Extra 75c voices are Jack-rabbit, Cottontail, Coon and Squeeker. Varmints respond to all. The Squeeker is for close range work on varmints, squirrels or birds. I keep a call in my car and hunting coat. They are fun to use even if you are not hunting.



In testing calls, Weems has called thousands of varmints he didn't shoot. He limits his shooting to varmints that come in easy handgun range. His favorite gun is a Colt 6" .357 Python, loaded with Speer's Hollow Base Wadcutter backed with 3.0 gr. Bullseye and CCI 500 primers, in .38 Special cases. It's my favorite super-accurate load for all hunting, except for extremely long range or large handgun game. It's fine for practice or plinking up to 90 yards or so, and will bag more varmints than heavier loads at up to that range.

When the Lyman-Ohaus 505 Handloading Scale was introduced it was the fastest one available, with the very desirable Magnetic Damper. The new Lyman-Ohaus D-5, at \$15, is lower priced and just as fast, with a better designed, long spout pan, that is much easier to remove and replace without jiggling the scale rider weights. If you want your 505 scale with the improved D-5 pan and hanger, ship it to Sales Dept., Lyman Gun Sight Corp., Middlefield, Connecticut, with \$2.50. Lyman will convert it, and return postpaid, promptly. Lyman hasn't said so, but I'm sure they will soon supply the 505 with the better pan as standard. At least they should.



EIGHTEEN MILLION STRONG

Now and again, somebody gives us a skeptical look (or worse) when we boast that hunting is one of the biggest of the world's participation sports. Next time this happens to you, give them the figures: In 1962, 18,175,396 people purchased hunting licenses. This is an increase of 122 per cent over 1945, when the figure was 8,190,901.

However, let's not rest on our laurels. In the same period, 1945 to 1962, the sale of fishing licenses went up 179 per cent. Trust those fishermen always to have a bigger story to tell!

But 18 million plus is a lot of votes. Could it be that the friendlier tone we have noted in our letters from Law-makers indicates that they are becoming more aware of this?

EXPANSION TESTS

Remaining Velocity

HORNADY 30 caliber BULLETS



150 gr. SP 2030 fps



180 gr. RN 2083 fps



180 gr. SP 2058 fps

COMPETITIVE MAKES



150 gr
2014 fps



150 gr
2020 fps



150 gr
2022 fps



180 gr
2097 fps



180 gr
2094 fps

Remaining velocity of most 30 caliber bullets at 300 yards is approximately 2,000 feet per second. Bullets must expand at the striking velocity to make clean kills at long range.

Bullets are tested by loading them to the 300 yard remaining velocity and shooting them into wet newsprint pulp.

Illustrated are Hornady 30 caliber bullets that successfully

met this test and bullets of ordinary construction that failed. Many bullets fail to pass this and other laboratory tests. Only bullets that meet these tests are dependable for distant kills.

Constant research, combined with our determination to make the very best has resulted in newly improved bullets—the most deadly we have ever produced.

BULLETS FOR HANDLOADING • SEND FOR LIST



HORNADY MFG. COMPANY • DEPT. G • BOX 906 • GRAND ISLAND, NEBRASKA



NEWS from the SHOOTERS CLUB OF AMERICA

When the S.C.A. was conceived and organized, it was the "brain-child" of GUNS Magazine, the one national publication which had long recognized the need for an organization which would have sane, pro-gun legislation as its sole purpose. With the support, influence and authority of GUNS behind it, the S.C.A. has grown into an effective, leading force in the struggle for positive legislation. The rise in its strength and effectiveness has caused the S.C.A. to blossom throughout the nation, and it has been instrumental in bringing forth positive proposals and actions—as well as aiding in the defeat of anti-gun legislation.

Today, having achieved the stature of a strong national organization, the S.C.A. is, in part, separating itself from GUNS. This does not mean the S.C.A. will lose the advantages GUNS can confer, or that S.C.A. members will be deprived of the information and enjoyment GUNS offers. GUNS will continue to work for, support, and be the national voice of the S.C.A., but the Shooters Club will also operate independently from GUNS.

This change has been brought about by a series of requests from potential new members and present active members. Time has revealed the fact that many individuals would like to participate in S.C.A. activities only, and we believe that this will aid the pro-firearms cause in years to come. The S.C.A. has an obligation to open its membership rolls to all who wish to fight for the constitutional right to own firearms, and we are determined that this obligation will be met.

The S.C.A., as an organization separate from, but working closely with GUNS, will have a broader base from which to accomplish its purpose, will be able to operate in more areas, and will draw from a larger and more varied group of potential members. With the additional increase in membership this change will bring about, will come a greater opportunity for the S.C.A. to enter more deeply into the fray. The months ahead will bring, inevitably now that the general elections are history, increased and even more hysterical attempts to restrict the gun sportsman's freedom to exercise his constitutional right. The S.C.A. will be ready for the trying days ahead, as attested to by this announcement.

For those who are not already members, the coupon below is an invitation to membership. GUNS readers who cannot be regular subscribers, but who wish to support the S.C.A., should utilize this opportunity to join at a very nominal fee. Those who desire a GUNS subscription and S.C.A. membership should use this coupon, and the coupon on page 53. This choice allows each individual to exercise his own option, and guarantees you the very lowest cost for both GUNS and S.C.A. membership.



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1965

-A YEAR

Knowledge is the most important weapon we have in our fight to own and enjoy firearms. GUNS Magazine and the Shooters Club of America will, as it has in the past, continue to keep our readers and members informed, on both the national and local level, of pending gun legislation, and on the attitudes of our lawmakers toward this important issue.—Editors

By E. B. MANN

NOW THAT THE sound and fury of the election is over, Americans who believe in "the right of the people to keep and bear arms" are asking each other, "Where do we stand *now*, in terms of firearms legislation?"

The sad fact is that nobody knows! The educated guess is that 1965 will be a year of decision regarding firearms legislation, with action at the national level and, perhaps more dangerous, with "wildcat" anti-gun proposals popping up in dozens of state legislatures. National action is likely to move slowly, and this should give us time to organize whatever forces we have in opposition. The deadly danger at the state level is that state legislatures often act swiftly and with little or no warning on such matters.

November 3rd, "the day of decision," brought landslide victory to one party; crush-defeat to the other. To us, so far as anyone can tell at the date of this writing, it brought neither. Some of our friends in the U.S. Senate, some of our friends in the U. S. House

of Representatives, were defeated. Fortunately for us, the same is true of some of those in both houses who were aligned against us. The score appears now to be about even. Fortunately for us, ours is not a partisan issue.

But there are many new faces in the national Congress as its legislative bodies get back into action. And the sad fact mentioned earlier is that no one seems to know how these new legislators feel about firearms legislation.

Why don't we know? We don't know because some of our national pro-gun leaders have told us that we mustn't dirty our hands with politics—and thousands of us have accepted this as an excuse to sit back on our lily-white hands, do nothing, and then scream bloody murder when anti-gun people are elected. Queries from this office to shooters in many states have disclosed an appalling dearth of information regarding attitudes of candidates regarding firearms legislation. Most answers were simply, "Don't know." Several even chided us for asking! "This is not," they said, "a matter for partisan politics."

That's right! The way a person feels about firearms legislation is *not* a matter of party. There are ardent believers pro and con in both parties. But no voter is bound to either party for support transcending his convictions—and the honest citizen with honest convictions who refuses to participate in politics, or who participates without knowing how the candidates stand on important issues, has nobody but himself to blame for whatever is wrong with the government he finances.

This magazine is an non-partisan as any; but we are not afraid to ask candidates of both parties how they stand on issues we think are important. We believe that firearms legislation is an important issue. We know that it is an issue that will be decided by the legislative bodies of our states and our nation.

If every shooter in America would remember that it is his vote that elects the members of these legislative bodies, we could within a foreseeable future win enough legislative strength to defeat any anti-gun proposal that might be offered. We can't do that by keeping "pure" of politics.

The re-election of Senator Thomas Dodd (D., Conn.) makes it highly probable that the much cussed and discussed Dodd Bill to amend the existing federal firearms statutes may be the first item of firearms legislation to confront us at the national level. In view of this probability, and in view of the wide-spread confusion regarding the Dodd amendments, perhaps it is apropos here to review the content and the circumstances surrounding the Dodd proposals.



OF DECISION?

It should be remembered, first, that Senator Dodd did invite representatives of many branches of the firearms industry and of the shooting sports to Washington to discuss the measures for firearms control under consideration by his subcommittee. As one of those so invited, I can state from personal knowledge that those discussions were long, outspoken on both sides, that they included word-by-word study of the existing statutes as well as the proposed amendments, including testimony from leading law enforcement agencies regarding the need (or lack of need) for additional controls or for changes in the existing statutes, and as to the probable effectiveness (or lack of effectiveness) of the proposed additions or changes.

I was criticized for saying at that time, in an editorial in this magazine, that the action of the Dodd Committee in inviting discussion with industry and shooting sports leaders was commendable, that the discussions were fair, and that the subcommittee members were amazingly amenable to deletions of or changes in their proposals. Those statements were more severely criticized later—largely, I think, because of an increasing, nation-wide misconception of the motivation, aims, and actual wordings of the Dodd Amendments.

In my opinion, Senator Dodd has only himself to blame for these misconceptions and for the vitriolic and ill-founded attacks that have been made on him because of them. As a politician, Senator Dodd is no more averse to publicity than other politicians, and no less willing than other politicians to climb aboard what may seem at the moment to be a vote-getting bandwagon. Following the assassination of President Kennedy, a wave of national hysteria convinced many politicians that any anti-gun publicity was good publicity for whoever could get it—and there were plenty of sensation seekers in the news media who were willing to give it. Senator Dodd let himself be shown and quoted as strongly anti-gun, thereby incurring the anger of untold thousands of shooters; and, to the utter dismay of all who had found him amenable to reason in earlier discussions, even let himself be stamped into attempting to railroad his amendments into enactment in their original wordings, ignoring the changes agreed upon by all parties in those earlier discussions. That attempt was blocked by prompt action by representatives of the National Rifle Association and others. The Dodd amendments were still in the hands of the Senate Commerce Committee when Congress adjourned its last session and so were never offered for enactment.

Just what does the Dodd Bill do? First, it is not a new bill; it is an attempt to amend the old existing Federal Firearms Act. Its intention is to make it more difficult for

juveniles lacking parental consent, persons convicted of felony, and other specified undesirables, to obtain guns by mail-order. In the wordings agreed upon in the discussions between the Dodd subcommittee and the representatives of the firearms industry and shooting sports—and we are advised that Senator Dodd is now content to abide by these wordings—the four note-worthy amendments are as follows:

1. The Federal Firearms dealer's license fee is increased from \$1.00 to \$10.00, and the person licensed must be 21 years of age or over.

2. Manufacturers and dealers must label packages being shipped to show that they contain firearms, and must notify the carrier that firearms are being shipped.

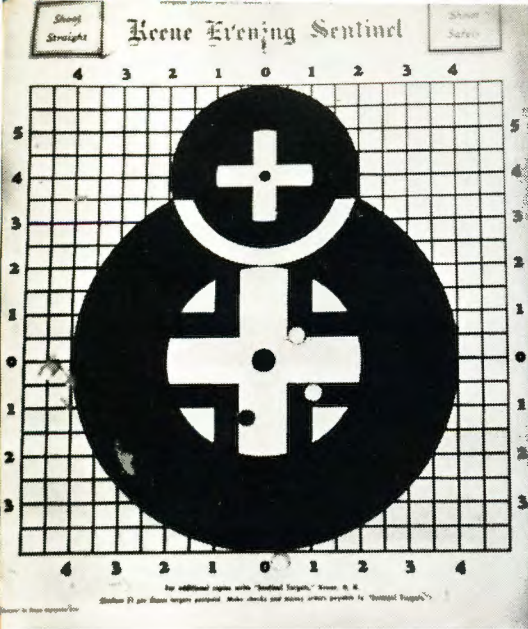
3. Agents of the common carrier (i.e., the express company) are forbidden knowingly to deliver firearms to a person under 18 years of age, or to a known criminal or drug addict.

4. A person ordering a gun by mail shall enclose with his order a notarized affidavit stating his true name, age, address, felony convictions if any, and whether he has complied with local and state firearms laws. The affidavit must also state the name and address of the principal law enforcement authority in the buyer's community. The seller is then required to forward, by registered mail, a copy of the buyer's affidavit and a description of the gun (as to type, but not including serial number) to the law enforcement authority named in the affidavit.

It was (and is) the feeling of the firearms representatives participating in the discussions that the first three of these amendments are not damaging, may even be beneficial to shooting interests. Surely no one will quarrel with the requirement that a firearms dealer should be an adult; and if a federal license is needed at all, it should be worth \$10. Clause 2 imposes no hardship on the buyer; it affects only the shipper.

Clause 3 merely makes it possible for the delivering agent to demand proof that the receiver is 18 or older, and to withhold delivery to persons known to him to be criminal. No one believes that this will be completely effective in preventing guns from getting into bad hands; every one hopes that it will help.

Clause 4 is the principal cause of misunderstanding regarding the Dodd amendments. There is no denying the point that filling out an affidavit and having it notarized is a nuisance that may be annoying to the legitimate buyer—but it is a petty annoyance compared with some of the major ones he might now be experiencing except for the efforts of those who accepted this one! There is no denying, either, that these affidavits (Continued on page 52)



MARLIN'S .444 BRUSH BUSTER

By BOB TREMAINE



Author's test bench, and three shot, 100 yard group fired from sitting position, without sling.

WHEN MARLIN SHOWED some selected gun writers the not-then-available .444 Marlin dummy cartridge at the 1963 NRA show in Los Angeles, the general consensus of opinion was "Wow, what a brush buckler." After firing the Marlin rifle with Remington ammo, and after shooting well over 200 rounds of handloads, I still feel the same awe—that .444 Marlin with the Remington ammo is a real powerhouse combination.

Since the cartridge develops considerable oomph, let's take a look at the improved rifle first. The gun is marketed with a straight stock, and the action is basically that of the Model 336. Tom Robinson and Art Burns of Marlin's R&D began work on the 336 action in the early part of 1963 when they were altering it so that it would feed the straight walled .44 Magnum ammo. The .44 Magnum with the 240 gr. bullet develops an MV of 1850 fps, which translates into an ME of 1820 ft./lbs. Tom and Art, after licking the feeding problem on the .44 Magnum, began to wonder what would happen if . . . the upshot of the wondering was, of course, the .444 Marlin.

The gun that will reach you has a solid steel forging receiver, all parts are heat treated, and the Micro-Groove barrel has a 1 in 38 twist. The chamber pressure of the cartridge is around 40,000 psi, but Marlin has allowed an actual chamber pressure of 42,000 psi. Exceeding this won't do anything for the accuracy, and nothing can be gained by boosting pressures. In order

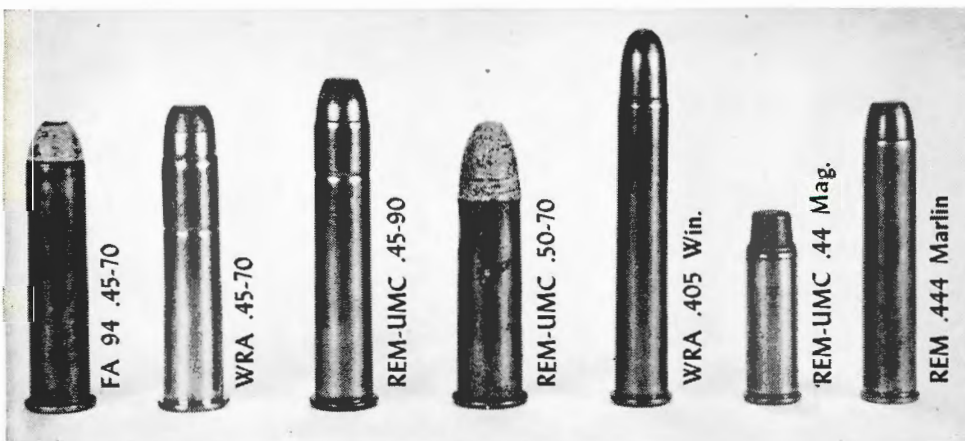
to make the gun more versatile, Robinson and Burns shortened the lever throw by 0.5 inch, while the pull was lengthened somewhat to reduce the amount of recoil felt by the shooter. Another change is the eye relief which on the .444 Marlin is 3.5 inches. This, by sad personal experience of some Marlin staffers, was felt to be a good move—too many of the boys were sporting new surgical stitches over the scope eye. If the shooter finds that the longer pull is uncomfortable, it is a lot easier to remove wood than to add it.

The Marlin gun holds four rounds in the magazine and one in the chamber. Like all of the currently produced Marlin lever-action rifles, this gun is drilled and tapped not only for scope mounts, but also for peep or receiver sights. The standard open sight is a Lyman folding leaf rear and a hooded ramp front sight, and a leather sling with quick detachable swivels is standard on the .444.

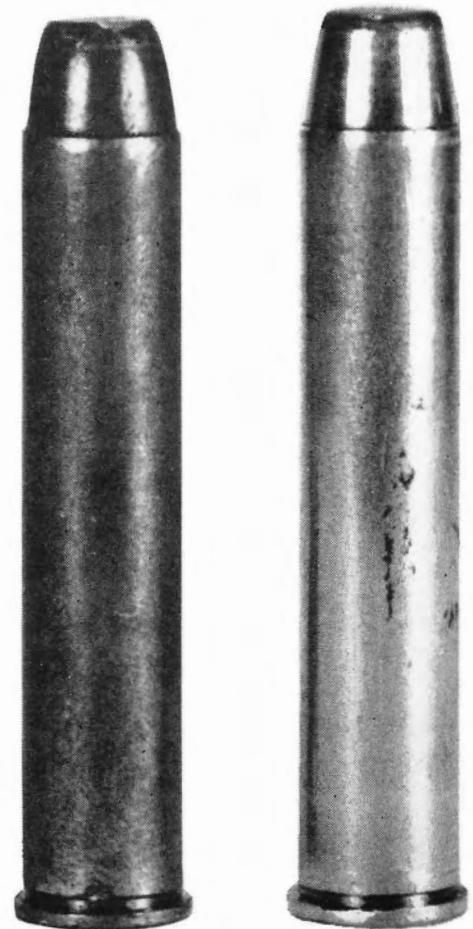
At the present, Remington furnishes the .444 load only with the 240 gr. bullet, the same bullet that is being loaded into the .44 Magnum cartridges. The bullet, Remington Index #75, is a copper jacketed, two cannellure slug which is seated to the upper cannellure and the case mouth is heavily crimped. The loaded round is 2.557" long and weighs 484.3 gr. Case length after firing is 2.216". Pulling ten factory rounds and weighing bullets, I found that the average bullet weight was 237.5 gr., and the average powder load was 49.4 grains of a powder that

strongly resembles 4198. The charge is not compressed, and reaches to within 0.25 inch of the case mouth.

How do the factory ballistics data translate into bullet performance in the field? Two attempts on my part to see for myself were aborted by miserable weather conditions, but I was able to get some reports from the west and the east coast. Art Burns of Marlin dropped a Vermont whitetail at 75 yards. This was a straight-on shot into the brisket, the bullet tore through the heart and nicked the liver. The buck dropped where he stood, and meat penetration was 20 inches. Art was unable to recover the bullet. Another report, this one from Maine, indicated that the gun and ammo will do a clean job at 150 yards on deer, will stop a black bear where he stands at just under 100 yards. In dense woods, the .444 Marlin with the Remington ammo does a superb job of bucking vegetation and the bullet still has enough energy to provide the hunter with venison. Neither Marlin nor Remington spokesmen are willing to say what the combination of gun and ammunition will do (Continued on page 51)



When a new cartridge is announced, it is interesting to compare it with others of the same general size. Right: A Remington factory round (left) and a handloaded round with Norma's 240 gr. bullet.



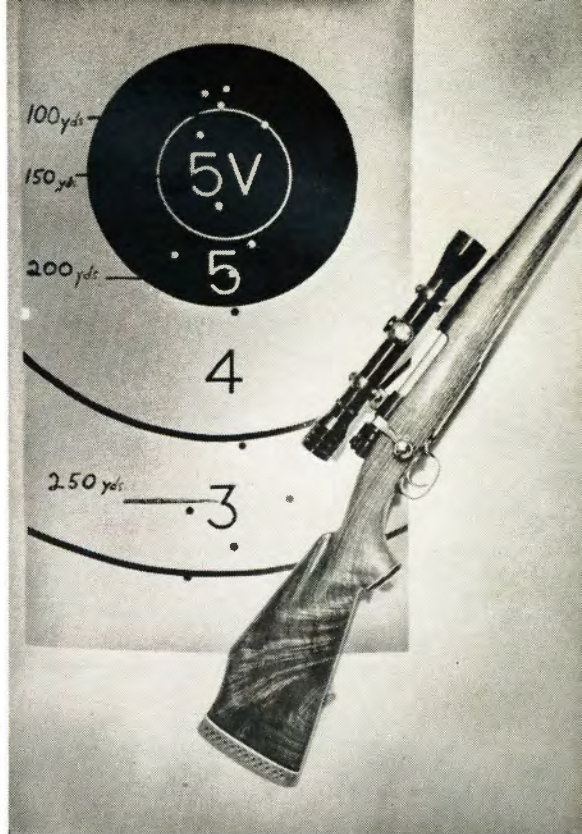
HERE'S THE DEBUT OF A NEW LEVER

ACTION CARTRIDGE IN A BOLT ACTION RIFLE

By WILLIAM SCHUMAKER

THE WORLD'S FIRST bolt action rifle chambered for the new Marlin .444 cartridge evolved from a far flung parentage of gun enthusiasts. Bob Steindler, managing editor of GUNS Magazine, planted the idea in my head and shop during a phone conversation. "I have two .444 Marlin dummy rounds. I'll send you one." As afterthought, he added "I wonder what it would do in a bolt action?"

No chambering reamers were available at the time, but Louis H. (Bud) Miller of Malo, Washington, made them up for us and once again we had embarked on another unusual gunsmithing-shooting project. J. Hall Sharon, the Kalispell, Montana, barrelmaker, made and rushed us a special barrel blank, 1 in 24" twist and of sufficient diameter to be chambered and fitted to a Mauser 98 small ring action. Ted McCawley of Remington provided us with ammunition



**A Guns Magazine
Exclusive:**

.444 Bolt-



Author's .444 rifle on a small ring Mauser action. Redfield 4X scope is mounted on Buehler high rings. Sharon barrel has a 1 in 14 twist. Factory round is shown next to "magnumized" load.



Remington factory ammo grouped well, and appeared mild in this bolt-action rifle. The recoil was not at all objectionable.



Facing page: A 100 yard zero, 3" high, gave drops out to 250 yards as shown on 6" V-ring target. Above, left: The "magnumized" .444, with extended 240 gr. bullet. Center: Components of factory round, with powder resembling 4198.

Right, top: The .45-70; .444 Marlin; .30-06; the .300 Magnum by Winchester. The .444 energy is near that of the .30-06, twice that of the .45-70. Right, below: Factory loaded .444 Marlin cut this large channel in the cross grain of seasoned fir.



Action Rifle...

and with one of these rounds I drove the 240 grain bullet almost diagonally through a 1,000 pound moose during an October hunt in northwestern British Columbia.

Straight-sided old cartridges like the .38-55, .32-40 and .45-70 had long ago been retired and replaced with the modern necked-down versions, until even at the remotest points of the northwest, the Eskimos are using .30-06's, .270's, 7 mm and .300 Magnums. When Marlin announced the "Triple 4," there was an audible murmur of "they're going backwards."

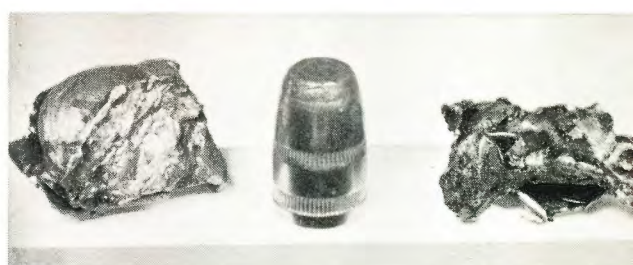
When the ballistics of the Remington-made ammunition listed 3,000 ft./lbs. of muzzle energy and a velocity of 2,400 fps, against 1,320 fps for the .45-70, the blase attitude changed to a new glitter in the eyes of big game hunters who were looking for the compact brush buster to end all brush busters. They wanted a cartridge far removed from the high velocity meat homogenizers.

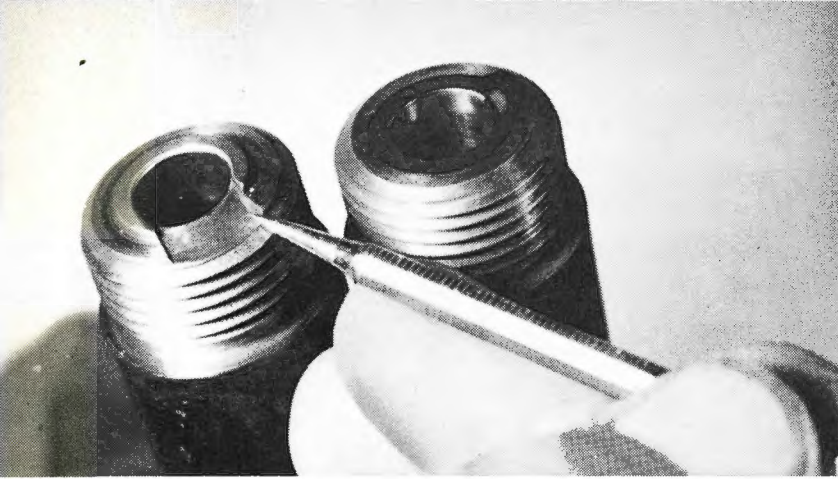
Fitting the barrel to the Mauser 98 action, and arriving at proper headspace for the rimmed .444 Marlin cartridge requires the bolt face to fit against the cartridge base while the forward side of the rim of the chambered round rests on the flat rear face of the barrel stud. In their normal position, the flat-faced (chamber ends) of barrels fitted to Mauser actions make contact with the forward surface of the internal Mauser action ring. The solid head portion of rimless necked-down cartridges then merely extends from the chamber to contact the bolt face. Headspace of rimless cartridges is measured from the shoulder of the case to the face of closed bolt.

With the rimmed cartridge we had a mere .050" to .057", or the thickness of the rim only, to work with between rear end of the chamber and the bolt face. This called for a smaller secondary stud of .045" length and .705" diameter to extend toward bolt face inside the internal action ring. The bolt face shroud extended beyond the

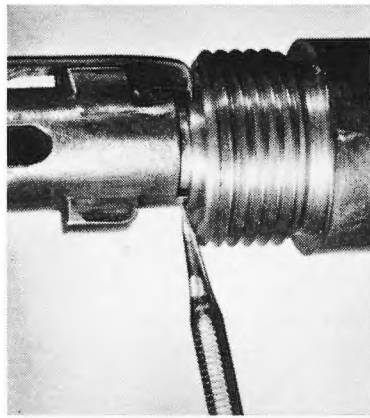


Remington 240 grain bullet weighed only 217 grains (left) recovered from author's moose; only 155 grains from a whitetail.



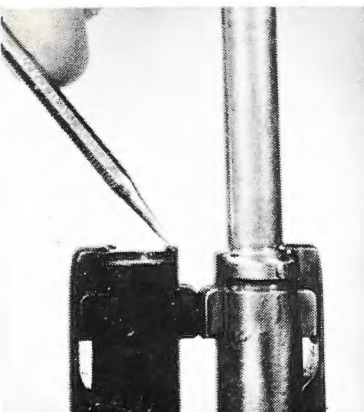
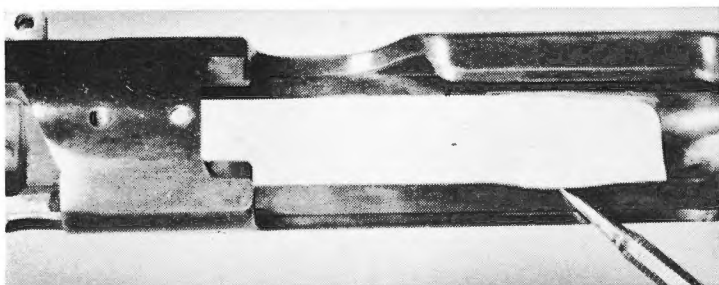


A secondary barrel stud extension and extractor slot were needed to fit barrel to Mauser action in .444 caliber.



Left: Extractor fits into barrel slot; bolt face and stud shroud .444 rim. Normal case protrusion shown at right. Right: Bottom view, showing altered edge of bolt shroud.

.444 Bolt-Action Rifle



Getting the .444 Marlin to feed proved to be quite a job. Mauser opening had to be widened, with extra dip at the point as indicated.



Original bolt (left), and reworked bolt (right) show face and extractor opened and the portion of the shroud extension that was removed to accommodate case rim.

.444 rim slightly and had to be shortened accordingly in order to permit clearing rear of barrel, yet breech the case rim against it.

Due to the secondary stud of the barrel and the rimmed cartridge, an extractor slot would be required which is not necessary with rimless cartridges in Mausers. Normal procedure in fitting barrels to actions when extractor slots are needed, is to turn the barrel securely into action using a barrel vise, after the stud has been threaded and chamber cut to within a few thousandths of full depth. Headspace can then be checked with a gauge and corrections can be made by either reaming the chamber slightly deeper if too tight, or if too loose, removing barrel and lathe turning the stud of the shoulder back as required.

Since the extractor slot has not yet been cut, and you can not determine its precise location until proper headspace is achieved with the barrel cinched into the action, the extractor must be left off the bolt to allow its closing onto the go gauge, and also to permit you to get a correct reading on the no-go gauge.

When we reached this "happy" dimension on the .444, anxiety got the better of us. Several rounds of factory ammunition were fired through the rifle. Not having the extractor fitted, we took a cleaning rod to the range to push out fired cases, but found it wasn't needed. The empties fell out when muzzle was held vertical during bolt opening. This indicated our bolt action might permit handloading beyond factory ballistics!

Before removing the barrel from action to cut the extractor slot, its top and bottom extremities must be marked with a flat chisel-like tool by reaching along top and bottom of right rail ways. Then an index mark must be made on the under-side of the barrel and action junction, so the cinch-up can be returned to the identical position. A lathe milling attachment can be utilized in cutting most extractor slots, but in this instance I took no chances and carefully cut it with a file.

Prior to chambering and headspacing, the bolt face had to be altered to accommodate the .510" rim diameter of the .444 Marlin case, and of course the extractor ground back and contoured accordingly. Bolt face opening of the .444 is larger than the .30-06 class cartridges, but smaller than the belted Magnums.

Getting the chubby, blunt-nosed .444 Marlin ammunition to feed properly out of the Mauser action was a gunsmith's nightmare! Unfortunately I can offer no dimensional solution. As in magnum feeding alterations, it was a touchy trial and error rail grinding operation, coupled with endless feeding tests. Great care had to be taken to avoid overwidening the rail opening, which would allow cartridges to jump out of the magazine. Considerable widening was necessary and at one stage of our work the front rail opening was no longer holding the front of the magazine follower down below the rails, and it kept popping out.

Center rib of the follower had to be ground out about .010" on its right (Continued on page 42)



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GUNS presents special contributing editors: Byron Dalrymple, Erwin A. Bauer, Clyde Ormond, Bob Tremaine, A. M. Pearson, Robert Hobbs, and Ellwood Epps.

If you are seriously considering hunting in Canada, GUNS Magazine will see to it that you get complete hunting information for whatever province you specify. Merely write to Dept. C3, GUNS Magazine, 8150 N. Central Park Ave., Skokie, Ill., 60078, and tell us in which province you want to hunt.



BIRD HUNTING IN

A SURVEY OF BIRD HUNTING IN CANADA WITH AN
IN-DEPTH REPORT BY BYRON DALRYMPLE



CANADA ...

EXCELLENT SMALL GAME and bird shooting can be found in every one of the twelve Canadian Provinces. The shotgunner will find a wide variety of targets in abundance throughout the land, and will be pleasantly surprised by the generous bag limits on most birds.

While most Americans still think of Canada as a wide expanse of uninhabited forests and plains, they will find that civilization is making inroads into this country, and the Canadian government, realizing that it does not take long for a species to be overcome, has instituted a program of wildlife conservation with the object of perpetuating all of the game species.

Ruffed grouse and spruce grouse are found in the wooded areas from coast to coast, and Alberta, British Columbia, and the Yukon are home for the blue grouse. Sharp-tailed grouse are found in good numbers in the prairie provinces bordering the U.S., and in the interior of British Columbia and the Yukon.

The role of Canada as a nesting place and breeding grounds for migratory birds is well known to U.S. sportsmen, and because of this, duck and goose hunting, especially in the prairie provinces, is excellent.

Canada has a Migratory Birds Convention Act, similar to ours, that was enacted after Canada and the U.S. agreed to act together to protect these birds. Those U.S. hunters who are familiar with the regulations set forth in our migratory bird laws will have no difficulty with Canadian regulations. However, the wise hunter will study the Canadian regulations before his trip to be sure that he complies with them all. While Canadians are generally very hospitable, they do not tolerate game law violators.

In the space available, it is impossible to give a complete picture of the small game hunting available in this vast land. We will try to give you a general idea of what you'll find in each province, and we'll start with a report on bird hunting in Ontario, by Byron Dalrymple. His comments will, generally, fit the hunting in most of the other provinces, and recommendations for guns and gear are applicable, also, in just about every area of Canada.



Whether it's geese, woodcock, or duck hunting you want, a Canadian hunt is sure to satisfy.

Ontario

Ontario, in its vastness and variety of terrain and latitudes, is a good bet for a bird hunt alone, regardless of its big game. But most hunters who go into the province are attracted by the moose, bear, and deer. It is these visitors we are aiming at in particular, for almost all of them miss some excellent upland sport (plus waterfowl) by not planning for it in advance.

Perhaps we should speak first of guns—what gun to take, and what loads. It's a simple matter. If one plans to try somewhere along the line for geese, or will concentrate on geese and ducks, then of course the 12 gauge with No. 4 and No. 2 heavy loads, will be the ticket. But I am not so much concerned with those hunts here, for the goose hunting in particular is a specialized business—such as away up at James Bay—and the duck hunting is more than likely to be catch as catch can, not planned as the main hunt.

In addition, most hunters will have to think about compactness and weight of their gear, for they will fly, perhaps, or go back into an outpost camp by boat. My experience has always been that the little 20 gauge is just right. It is fine for uplander game, and it does very well indeed on ducks when you switch to short-magnum 4's. It will also kill the odd goose, when the chance turns up, if the hunter will use a bit of common sense regarding range.

The double gun case, which I use, is in my estimation an essential. When traveling, for example by train up through the Algoma bush, this allows one less piece of luggage to keep track of. It packs handily in a plane, or a skiff. Shotgun ammunition is a little more trouble because it is so heavy. Much depends on how good a shot you are, and how much bird hunting you intend to do. But most of the small towns in Canada, even a good ways north, are well supplied with standard loads for shotguns, and so there is very little worry about taking enough shells along. In addition, it is surprising how many hunters nowadays *drive* to their Ontario hunting, and bulk is then no problem.

There are scores of outfitters and camps in Ontario. Guides are needed in most districts for big-game hunting but not for birds. There are a variety of licenses to suit one's purpose. If you are after moose primarily, your license covers everything else, including birds. Or, skip the moose and you can hunt deer and bear and wolf, plus all small game and game birds, for a \$36 non-resident fee. If you go for bear plus small game and birds, the license is \$21. There are no customs problems about getting a license, or getting your guns and gear into and out of Canada—except handguns. Best idea is not to take one. Be

sure to declare all cameras, ammunition, binoculars, etc.

One of the most delightful ways I know of to hunt in Ontario is to go by rail. The Canadian National and Canadian Pacific both traverse hundreds of miles of bush. And the Algoma Central, going north from Sault Ste. Marie, is an authentic "hunter's special." It bisects the other lines, and even ties in with the Hudson's Bay Line, so you can go just about anywhere you wish, to camps reached only by rail or plane, or you can have the train stop and let you off in the bush to camp and hunt strictly on your own if you wish.

I recall one afternoon when, within about five minutes of Jellicoe, I walked possibly a half mile on an old pulp cutter's trail, flushed ten ruffed grouse and six spruce grouse, came away with five birds in my bag. No. 7½ shot is a good load for them. Or, one can compromise on 6's and use heavier shot for other species, too.

This gets us to the sharptail, for which I'd recommend No. 6 shot. Because the laws change from year to year depending on bird populations, there is no point in detailing districts and smaller areas open for the various birds. You'll learn of these when you get your seasonal hunting-law map. But suffice to say that the sharptail grouse, a bird of the wild hay barrens, jackpine plains, the willows and scattered small poplars and birches, is a perfectly wonderful target, and a hunting experience all by itself. Ontario has its share of sharptails, and offers open seasons in designated regions annually. The seasons, and those on other grouse, fall anywhere from Sept. 15 through Dec. 15, so you are sure to have a chance at one or more, no matter when you go, or to what part of the province.

That unique cousin of the sharptail, the snow grouse or



IF YOU HAVE NEVER HUNTED BIRDS IN



The ptarmigan, or snow grouse, is hunted in some of the northern sections of Ontario in the late autumn.

Although good pheasant hunting is available in most of Ontario, it is often sensational on Pelee Island.

ptarmigan, is another possibility for the Ontario gunner. This grouse, which is brown and white in summer, turns to snow white in winter. The species within Ontario's range is one of the willow ptarmigans, so named because it frequents the northern tundras and the dwarf willows. However, as winter pushes on, ptarmigan make rather extensive migrations to the southward. They have turned up even along the northern U.S. border, occasionally.

This bird is a most unusual target, although the hunting is a bit specialized. That is, you must get detailed information as to which areas are open, and where the birds are most likely to be available. For moose hunters who go late in the season, ptarmigan hunting can be arranged. Willow ptarmigan are a bit smaller at maturity than the sharptail grouse, but are fine eating and sometimes very sporty. Perfectly camouflaged, they flush from underfoot right in the open and most unexpectedly. Loads like those used on the other grouse—No. 7½ or No. 6—do nicely.

The four grouses covered thus far—ruffed, spruce, sharptail, ptarmigan—are the mainstays of the northern upland game birds. But this is by no means all Ontario has to offer. I have long claimed that some of the world's finest woodcock shooting is to be had all along the border area encompassing northern Michigan and southern Ontario. Shooting must be done before the snow flies, since woodcock don't stay after the first hard frosts. But during September and part of October they often congregate along the stream bottoms where willows, small birch and black-haw grow.

Woodcock and ruffed grouse are often found in the same covers, except that the grouse may also be found in rocky areas that woodcock do not utilize. No. 7½ shot in

a low-base load is a good one for woodcock.

The pheasant situation in Ontario is spotty, but at least one of the spots is widely famed for the fantastic number of birds it produces. This is Pelee Island, which is only a short drive from Detroit, Michigan, and Windsor, Ontario. I doubt that big-game hunters will have any occasion to be here. And, the somewhat restricted area limits the number of hunters. But for some years this place has swarmed with pheasants, and the annual hunt gets a lot of publicity and a lot of birds.

There are other pheasant hunting grounds in southern Ontario, that portion generally lying between Windsor (across from Detroit, Michigan) and Niagara Falls. This, and the country to the north of it, is the most heavily settled section of Ontario. It and the lakeshore portions all along Lakes Huron, Erie, and Ontario are excellent duck locations. There is a very small amount of quail hunting also, located in several townships of Lambton and Kent Counties. Rounding out the uplanders, a few open spots are designated each year for Hungarian partridge. But these, like the quail, are scattered and not as certain for the visitor as some of the others species.

Mostly then, unless you go to Ontario specifically for birds, your bird hunting will be dictated by the location you have selected for your big game hunt. If it's deer, let's say, out of Sault Ste. Marie to the east, you'll be into woodcock and ruffed grouse mostly. If you go north up the Algoma line, or out of North Bay into the Timagami and Cobalt country, ruffed and spruce grouse will be the diet, with some lowland shooting tossed in for good measure. West, sharptails, ruffed, spruce grouse all may be in line, and northwest, possible ptarmigan also. (Continued on page 40)

CANADA, YOU HAVE MISSED A GOOD BET!



Hunters set out for blue, snow, and Canada geese on the salt water tidal flats at James Bay, in Quebec.

After a day's shooting, the hunters return to Cabbage Willows camp on the salt water marshes of James Bay.



BIG GAME IN CANADA



**COMPILED BY GUNS SPECIAL CONTRIBUTING EDITORS
WITH PERSONAL REPORTS BY Erwin A. Bauer on ALBERTA •
Clyde Ormond & A. M. Pearson on YUKON •
Bob Tremaine on BRITISH COLUMBIA**

BIG GAME MEANS different things to different hunters. To the midwestern or eastern hunter it will mean whitetail deer and bear; to the western hunter it could mean these plus elk, mule deer, antelope, and perhaps the larger bear of the west and northwest. When you mention big game to a Canadian hunter, however, it means really big game—trophy game like moose, grizzly, caribou, and the various sheep and goats. And, when you think of these animals, you think of the Canadian provinces of Alberta, British Columbia, and of the Yukon and Northwest Territories.

This is not to say, however, that the other provinces do not have big game hunting. Following these special reports on the “trophy provinces,” you’ll find a digest of

big game hunting conditions in the prairie and eastern provinces, all of them worth looking into.

Before we get into a discussion of the game, let’s look at a few of the regulations that apply to all of Canada regarding the hunter and his equipment. You *cannot* bring handguns into Canada, and should not attempt to do so. Rifles and shotguns are permitted without special permission, and 50 rounds of ammunition are admitted free of duty. You must provide Customs with serial numbers and a description of firearms brought in, so that they will be cleared when you return to the U.S. Non-resident big game hunters must be accompanied by a licensed guide. When travelling through a Canadian National Park, all firearms must be sealed by a park

officer. All provinces require that firearms, in transit either by private auto or public conveyance, must be encased, and/or broken down.

Alberta

This remarkable, 255,285 square-mile expanse of real estate in western Canada offers something exciting for anyone who owns a firearm—any kind of firearm. In addition, I found it to be among the most hospitable places a shooter is ever likely to travel. But let's get down to details. Exactly what is there to hunt? How available is it and what does it cost?

A quick check in the Records of North American Big Game (compiled by the Boone and Crockett Club) will reveal that Alberta ranks high in several categories. But it completely monopolizes the category of big-horn sheep. Of the 100 largest heads ever taken, only a handful did not come from Alberta. Of course Alberta can also claim the world record bagged in 1924 by Martin Bovey of Massachusetts.

Although the species was not present there in any numbers a century ago, Alberta is also an outdoorsman's best bet to shoot a really big bull elk. Alberta elk are abundant, and the males have huge heads. Their range is quite extensive, covering most of the Rockies. The season on them usually begins in early September, at which time the most effective method of hunting is by calling the love-sick bulls.

Alberta is not an especially good place to go moose hunting, although these giants of the deer family are plentiful enough. The trouble is that the bulls do not have big enough racks to compete with bulls from elsewhere. A few Alberta bulls have made the Records in the Canada moose category, but the percentage is low.

Both British Columbia and Alaska are better known for goat hunting, and rightly so. Still, there are many good billies on Alberta's side of the Rockies and I have had my share of thrills hunting them.

Alberta is no longer the happy hunting grounds it was for grizzly bears a quarter century ago. Unlike other species of big game, the silver-tip's existence conflicts with ranching and especially with sheep raising. At least that's what stockmen claim and the grizzly has been sharply reduced in numbers exactly as it has everywhere else. To me that's very sad indeed. Still it's possible to get a grizzly and the longer and harder you hunt, the better your chances.

The black bear picture is entirely different; they are numerous along the entire slope of the Alberta Rockies and they are of surprisingly good size. On one typical ten day trip, in the vicinity of Hummingbird Creek, our party spotted six blacks and bagged one unusually large boar. All this was done while concentrating on elk.

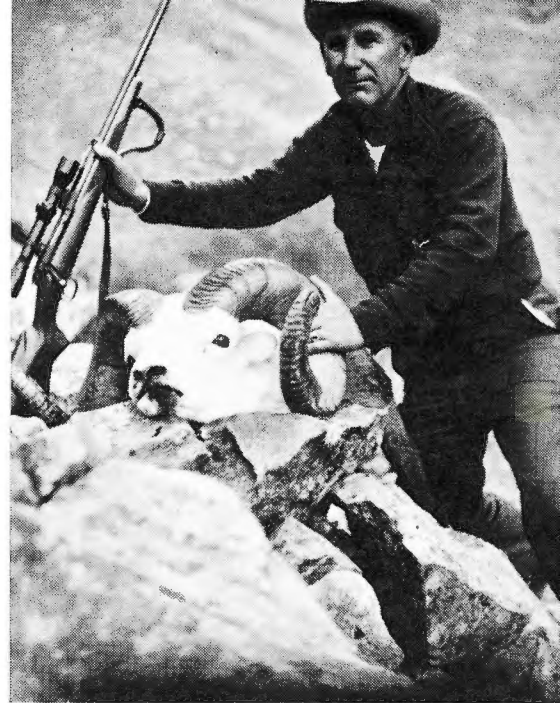
As elsewhere, a man's best bet is to concentrate on other game. Then after he has made a kill, it pays off to check the carcass or pile of entrails left behind daily. Eventually a bear will find this and will not leave it until all is eaten.

The natural range of the mountain lion or cougar does not extend far northward beyond the central Alberta Rockies. But they do exist here in sufficient numbers to make hunting them worthwhile. It's significant that the lion has recently been declared a trophy game animal in Alberta, as compared to its predator or fur-bearing status in all other states and provinces. There are even a number of registered lion hunting guides, such as Clarence "Cougar" Long of Sundre, available for hunting the year around.

A non-resident deer hunter can find far more mule deer at far less expense than he can in Alberta. But mulies are numerous enough and there are enough bragging-size heads in the southern foothill region to be worth mentioning here.

It may come as a surprise to many shooters to learn that there is excellent antelope hunting in Alberta. Of course all of it is concentrated in the southeast quarter of the province. But the herd (which wanders back and forth across the Montana line) is healthy, well-distributed, and during the past seasons, some outstanding heads have been taken.

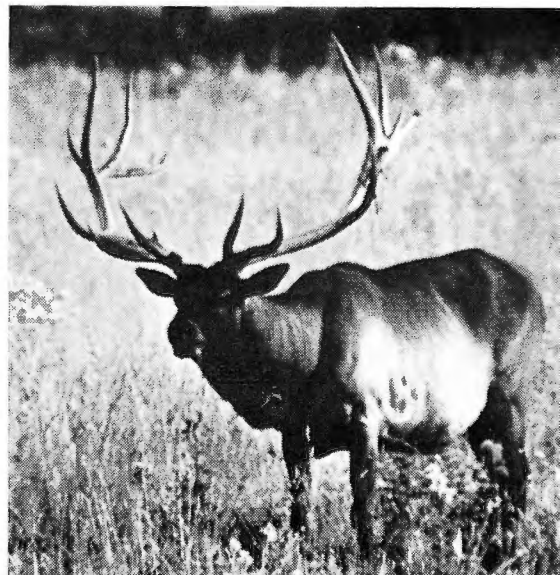
A big game hunting license in Alberta will cost a non-resident about



A fine record Fannin sheep, from the Yukon's famous Pelly Mountain area.



Above: A glacial creek bed in the Yukon. Below: Record elk like this are abundant in Alberta mountains.





The Weatherby rifle in 7 mm Magnum (top); new 7 mm Remington Magnum, and Model 70 Winchester in .300 Magnum; all fine rifles for Yukon hunting.



the same as it does in other top big game areas. The basic license is \$100 and this covers one sheep, one goat, one bear and one antlered animal (moose, elk, or deer).

Big game hunters must make elaborate preparations well before their hunt, because the Provincial law requires a guide for each non-resident big game hunter. This means a hunter must engage a guide or outfitter before the season opens—in fact many months before it opens, to be on the safe side.

As anywhere, there is a vast difference among the outfitters. Some are more capable than others, some have better equipment and they hunt in superior hunting country. There isn't any sure-fire way to classify them beforehand, but a thorough checking of references long before the hunt will let you know what to expect.

Alberta outfitters furnish everything except personal gear, such as firearms, sleeping bags, clothing, toilet articles, cameras, liquor. They *do* furnish horses, saddles, tents, food, cooking and camp gear. I have never been in an Alberta camp where the food was not abundant and well-prepared.

There is one point to keep in mind when selecting an outfitter. As mentioned before, it's required to have a guide for each non-resident hunter, but there are not enough completely qualified guides to meet the demand. What happens, then, is that a few outfitters are forced to pick up non-qualified guides just to "fill out" the party. So—check to be certain you will have adequate guides.



Cartridges for heaviest Yukon game (L to R); 7 mm Remington Mag., .300 H&H, .308 Norma, .300 Weatherby, .300 Winchester, .375 H&H.

What to take on an Alberta hunt? Autumn in that latitude can range from balmy Indian summer days to whole weeks of bitter weather punctuated with snowstorms. The best advice here is to be prepared for the worst. A minimum list of gear would include two suits of woolen shirts and trousers (or jeans), two suits of woolen underwear, a warm (probably down-filled) jacket, a western hat and a cap with ear muffs, gloves, a rain-suit, saddle scabbard and saddle bags (many outfitters furnish these), several changes of heavy woolen socks, two pairs of boots (I happen to like pacs as being most versatile), a sharp knife, a warm sleeping bag and foam mattress (like the Trail Bed) for sleeping. The old air mattress in no way compares with the foam mattress for comfort, warmth, or dependability.

Some optional items to carry would include medicine and drugs you're likely to need, camera and a large supply of film, a flashlight, reading material for stormy days indoors, maybe a deck of cards. Good binoculars and/or a spotting scope will save you plenty of footprints and



Left: The Yukon camp of outfitter Johnnie Johns. Right: Erwin Bauer packs out bighorn trophy from the Oyster Creek area of Alberta. Goat is typical of Alberta's trophies.

probably a Charley horse or two. A bottle of good liniment could prove worth its weight in gold.

What firearms to take on an Alberta hunting trip? There can be almost as many answers to this as there are sportsmen who have hunted or plan to hunt in the province, but I'll try to keep it uncomplicated.

Virtually all of the big game hunting is either high in the Rockies or on open prairie (for antelope). With local exceptions, most of the alpine country is quite open. So there you have a specification for a fairly long-range, flat-shooting rifle with a reliable scope sight. On my first several hunts in Alberta, I used a Model 721 Remington in .270, and with it collected a number of elk and a fine ram. All but one of the elk were one-shot kills. The past two years I've used a Model 700 Remington 7 mm Magnum with a 3X-9X Leupold scope. With it I collected two more elk, a goat and a lion, all of these also one-shot kills. To me the combination appears near-perfect, but any other rifle and scope which will accomplish the same thing for someone else is just as good.

Not too long ago, Alberta wasn't an easy place to reach from anywhere. Situated as it was in the Canadian west, it was a long hard drive, often over poor roads. But luckily all of this is completely changed. Now roads, such as the Trans-Canada Highway, are excellent. And today's outdoorsman can catch an Air Canada jet flight in many eastern and mid-western U. S. cities, hop to Canada and then zoom non-stop to either Calgary or Edmonton, Alberta's twin cities, centrally located south and north.

Yukon

The wide variety of latitudes, elevations, and temperatures of the Yukon, to say nothing of the sparse population, is conducive to vast and varied game herds. The Yukon has them, and because of the combination of these factors, is one of the best big game hunting areas in North America.

Yukon's hunting laws list black and grizzly bear, caribou, moose, mountain goat, and mountain sheep as legal game for the non-resident hunter. Yukon also has small populations of buffalo, deer, and elk on which there is no open season. Hunters may take either sex of caribou and mountain goat, but only rams of the mountain sheep.

In addition to the big-game there are wolves, coyotes, wolverine, and cougar. These are classed as predatory animals, may be shot by the hunter any time.

Non-residents hunting the (Continued on page 48)



BIG GAME HUNTING in the Northwest Territories has never been open to the white man, the trophy hunter. Quite properly, hunting has been reserved for the Indian and the Eskimo. Living in this harsh environment, their lives have literally depended on game.

The first legal game to be taken by sportsmen in the Territories were buffalo, cropped from the overflow of the 30,000 buffs that populate Wood Buffalo Park on the Southern border. Two Alberta outfitters, Stan Burrell of Sundre and Claude Brewster of Banff, pioneered this trophy hunt. For three years all went well, then anthrax struck and eliminated the buffalo as a game animal.

Working closely with the Territorial Council the two outfitters looked over the vast expanse of spruce, tundra, and muskeg for new trophy game. No

scheme that might jeopardize the welfare of the nomadic native population by reducing their food supply could be considered. The MacKenzie Mountains, bordering on the Yukon, appeared to offer possibilities but little was known about the big game potential of this vast area. These mountains were known to contain Dall sheep and caribou, but the exact quantity of each species was uncertain.

Burrell and Brewster conducted an aerial survey during the summer of 1963 in cooperation with Federal authorities. Don Flook, biologist, Glen Bigelo, forester, and Bob Douglas, wildlife expert, represented the government. Another outfitter, Dick Turner of the Territories, and Don Edge, Brewster's chief buffalo guide, completed the party. For eight days they flew from the famous Nahanni watershed north to the Keele and Car-

cajou Rivers. This revealed a variety of game, and areas of scarcity and abundance. There were Dall sheep, so were moose—as many as 30 in an area two miles square. Mountain caribou, not to be confused with their smaller cousins the barren land caribou, were consistently located. Mountain goat seemed to be of trophy size but were not plentiful. Black and grizzly signs were everywhere.

The way was paved for an exploratory hunt in August of 1964. Burrell's party included his old buffalo hunting partner, Elmer Kure of Dixon, and two other Albertans, Roy Morgan of Carstairs, and Norm Keglovic of Calgary. Dr. Hugh Mahoney, a trophy hunter from Lowell, Mass., joined the party. The jumping off point was Norman Wells, easily reached by Pacific Western Airlines. From there is was bush planes and hiking. Spike camp was at Carcajou Lake in the MacKenzie Mountains.

Dr. Mahoney was anxious to explore the area, and the first morning he took his rifle and climbed the shale slope above camp. Unbelievably, there were Dall rams lying just on the crest, and fine heads they were, too. Their black horns made complete circles, then flared up and out as is typical of the Dall. Dropping to one knee he squeezed off a shot, and Dr. Mahoney had his ram! Climbing to the crest where the sheep lay, he spotted a bull caribou at the head of the draw, and with two shots tumbled him. Both trophies were taken so close to camp that the shots were clearly audible.

All in all, the party had a six day hunt that was an unqualified success, taking four Dalls, the caribou, and a grizzly. Moose and caribou were readily available but they were passed by. Primary purpose of the hunt was still exploration.

Claude Brewster's son Bud conducted a similar trial hunt. Included were Frank Sawyer, from Columbus, Ohio, Erwin Bauer, the outdoor writer, and his photographer. They collected sheep, caribou, and moose. Their findings confirmed the findings of the other party about the availability of big game in the MacKenzies.

In 1965, the MacKenzie mountains will be opened to big game hunters. The season will be August 1 to November 1. The license fee will be \$100 for Canadians and \$150 for non-residents, (Continued on page 59)

NEW GAME FRONTIER- The Northwest Territories!



By ROBERT M. HOBBS



Although this big Dall ram was shot by Clyde Ormond in the Yukon, it typifies the type of trophies that are available in both Territories.



GUNS of the Canadian Hunter

By ELLWOOD EPPS

THE MOST POPULAR CALIBER in Canada is the old .30-30. Unfortunately, it is being shoved out of place a little by the big flood of junkers—mostly military—appearing on the market. Second in popularity is the .303 British, which has always been popular in Canada due to the fact it was our military cartridge for many years and many fine British sporting rifles were chambered for it. Right now, this mess of surplus .303's and 6.5's, etc., (and I mean a mess) are on the market for anything from about \$6.00 up, and even then they are overpriced, in my opinion.

We have always had excellent .303 ammunition, our Canadian manufacturer Canadian Industries Ltd. has always given us a fairly good choice of bullet weights and types. We have 150, 180, and 215 gr. soft point, copper point, expanding, and now a new sabre (plastic) tip. Our 180 grain load has a MV approximately 125 fps below the 180 grain .30-06, so you can see, it is quite a potent caliber.

We have just had word from one of the shops in B. C., and believe it or not, they still sell more .30-30 ammunition than any other caliber. Keep in mind that they are located in grizzly bear country. In the west, the .270, and the .30-06 are the most popular, with the 7x61, and lately, the new 7 mm Remington Magnum and the big .300 Winchester Magnum getting a fair run. Very little response has been had to the .264 Winchester Magnum, nor has the Weatherby line of high velocity cartridges caught on. Of the Weatherby calibers, the .300 is slightly more popular, but with the advent of the .308 Norma, it seems to be on the decline. The Ruger .44 Magnum carbine had a brief flurry, and the .280 Remington, although an excellent cartridge, also did not gain any great degree of popularity. Very few, if any, of the English calibers have ever been too popular; there are a few of the .300 and .375 H&H Magnums, but the .275, .240 and similar calibers are rare.

The lever action is still by far the most popular rifle, with the old 94 Winchester leading the parade. Coming after that, are the old 99 Savage and the Marlin guns. I believe these three models would constitute at least half of all types of guns used in Canada, until the advent of the war surplus guns—and not too many of these are used more than once.

Pump actions are next in popularity, then the bolt, although as mentioned, the dumping of military junkers has changed the picture. In last place come the autoloaders, for the boys who never count on the cartridge in the chamber but rely on those in the magazine.

If many readers wonder why our guns are basically the

same as those used in the U.S., the answer is simple. U.S. publications flood the country, and the boys read the U.S. advertising. Our new hunters are lead to believe they cannot kill unless they have a "magnum;" the most misunderstood and over-used word in the gun industry today. In spite of this it is surprising how many of the old-timers are still used, and ammunition is still made in Canada for them. I am referring to the old .38-55, .45-70, .44-40, .38-40, .33 WCF, .303 Savage, .25-35, .22 Savage High Power, .32-40, and even some of the old .57 Snyders and the almost obsolete 11 mm Mausers.

In varmint calibers, the .222 Remington is the most popular, and the .22-250 (even though rifles have never been made for it) is widely used. The .243 has a lot of admirers and the .220 Swift was fairly popular. The .222 Remington Magnum did not go over too well. Appearances are that the new .225 Winchester is going to do an excellent job, but time alone will tell.

Scope sights are not as popular in Canada as in the U.S., although they are quite widely used in the Prairie Provinces for the long range shooting of antelope. In Ontario, Quebec, and the more wooded areas, scopes are used on possibly 15 to 25 per cent of the guns. The main reason they are not more popular is the fact we do not have a buck or a bull law—any deer or moose is legal—and it is not as important to look the head over as it is in areas that have only buck laws.

The popularity of the .30-30 is due to many factors. I believe part of this is the simple fact the lever action guns are light and handy. In spite of the fact that the .30-30 has been on the market for a half century, ammunition companies have never spent any effort on trying to improve the ballistics in any way, shape or form—which, I guess, speaks well for it. The 150 or

(Continued on page 66)

EDITOR'S NOTE

When hunting in an unfamiliar area, the first thing a hunter will usually do is ask the local people what guns, ammunition, and accessories they use. We asked Ellwood Epps, one of Canada's most successful gun dealers, these very same questions. The views he expresses here are his own, based on years of selling, buying, and building guns for his Canadian hunting customers.—Editor



REMINGTON'S NEWEST IS

A POWERFUL PACKAGE FOR BIG GAME

By R. A. STEINDLER

IF YOU HAVE been bemoaning the passing of an era—that is the era of the souped-up .35 caliber cartridge and rifle—you can stop crying! And if you have never heard of those .35's, there is a treat in store for you. Remington has a brand-new gun and a brand-new .35 caliber cartridge—the .350 Remington Magnum!

Just a little over a year ago Remington popped the Model 600 on the public. Gun writers, guides, and shooters immediately took sides, and opinions about the gun were about evenly divided. Let's recap the gun: It has an 18½ inch barrel, a dog-leg bolt that comes from the XP-100 which probably derived from the old Model 30 bolt handle, a plastic rib. The price tag was just under 100 bucks, weight of the gun was announced as 5½ lbs. This led some wag to state that the Model 600 cost slightly over \$18 per pound of gun. In some areas acceptance of the new and startling-looking gun was immediate, in other areas, where fast handling and weight were not major considerations, sales were slow. Construction of the Model 600 was such that anything more potent than the .35 Remington or the



Potent punch of .350 Remington Magnum cartridge was demonstrated by shooting into plastic bottles.

REMINGTON'S .350 MAGNUM!

.308 Winchester would be impossible. Mike Walker, one of the guiding lights of Remington's R&D staff and Charles Morse, another top-flight Remington designer, had been toying with the idea of a hot .35 caliber cartridge for a number of years. This dream cartridge would be ballistically in the league of the .35 Newton, the .35 Whelen, and cartridges of similar ilk. With the exception of a few .35 Newton rifles, guns for these wildcat cartridges had to be custom built. Mike, in the early 1950's, submitted a hot .35 cartridge and gun to Remington's management, but there were other things in the works and the project was shelved for the time being.

With the introduction of the Model 600, the Remington R&D boys had a light weight gun that would be suitable for a heavier caliber brush gun. They beefed it up here and there, and presto, they had had the rifle for the hot .35 caliber cartridge. Thus was born the .350 Remington Magnum—a real power package.

The new Model 600 Magnum, so far chambered only for the .350 Magnum, weighs 6.2 lbs., has a beefed up and free-floating barrel. The ventilated plastic rib has been strengthened somewhat and is a smidgeon wider than that of the standard model. The big change is in the wood! The



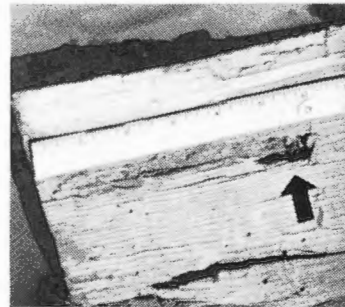
Left to right: The .348 and .358 Winchester; the .35 Remington; and the new .350 Remington Magnum.



Above: Ice-filled plastic bottle shatters as it is hit by the 200 grain Core-Lokt Remington bullet.



Left: On the left is the 7 mm Remington. In the center is a factory loaded .350. Right is the .350 loaded with a 250 grain Speer bullet. Below. Penetration of the 200 grain factory bullet in the end grain of oak log.



stock of the Model 600 Magnum is laminated beech and walnut, and this, to the best of my knowledge, is the first time in U.S. firearms history that an over-the-counter rifle is marketed with such a stock.

Extensive use of laminated stocks has been traced to WWII Germany. It was found that laminating military stocks would give not only a stronger product—that is a laminated gun stock was more resistant to moisture, oil, and general abuse—but stock manufacture was easier since less care in selecting the blanks was needed. Moreover, laminating conserves hard-to-get walnut which, though not really scarce, does, if finely figured, command a higher price than the grade of wood usually put on a standard grade gun.

The beech and walnut lamination of the Model 600 Magnum stock is done in two directions to give the stock not only greater strength, but also prevent warpage. The checkering, still of the impressed kind, is somewhat improved, and the new DuPont RKW finish—a strict trade secret—has proved itself to be rugged and even more durable than last year's much touted Remington finish. A black rubber recoil pad is standard, as are the QD swivels and a leather carrying strap.

Several of the demonstration guns I saw (*Continued on page 46*)

Guns By Forehand & Wadsworth

By C. ELDON SHOMBER

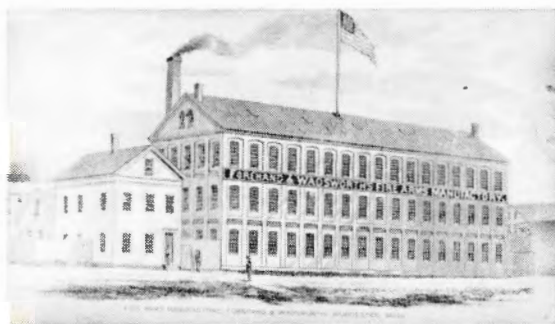
OVER FIFTY YEARS ago, the gun-making firm of Forehand and Wadsworth was dissolved and later absorbed into one of the major arms companies. Were it not for the fact that Messrs. Forehand and Wadsworth left with us a great many samples of their arms, it might be possible that this once-great enterprise would be ignored by today's gun collectors. The success of this firm should be credited wholly, or at least in large part, to a man of great skill, inventive genius, and imagination. The personal drive and initiative of this man started a chain of events and accomplishments that has seldom been paralleled in any field.

This man was Ethan Allen, the son of another Ethan Allen of Fort Ticonderoga fame. The younger Allen, destined to be one of the pioneers of the American arms industry, was born in 1810 in Bellingham, Massachusetts. Little is known about his activities prior to 1832 when he entered the gun business with the manufacture of the

Lambert Cane Gun in Grafton, Mass. Allen soon began expanding his operations to encompass other types of guns, and in the majority of cases, he invented and manufactured his own machines to suit his purposes.

He produced a breech-loading sporting rifle in calibers from .22 to .44, and it is claimed that this was the first breech-loading arm made for the metallic cartridge. A lever-action, breech-loading, double-barrelled shotgun was also produced, varying in weight from 7½ to 12 pounds. Allen's firm also claimed to be the first U.S. company to manufacture laminated or Damascus barrels. One of the first pistols produced by Allen was a single shot .36 caliber under-hammer pistol utilizing the percussion ignition system. This was a single-action pistol with blued finish, 7¾ inches overall with a 3⅞ inch part round, part octagon barrel. Allen called this the Pocket Rifle. Another early Allen pistol was the Gambler's Model. Ranging from .31 to .44 caliber, this percussion gun was a favorite in the early steamboat days of the Mississippi River. The gun came without sights since the effective range was scarcely more than the width of a card table. The Gambler's Model quickly lost its popularity as more and better models became available.

Needing assistance in his growing enterprise in 1837, Allen entered into a partnership with his brother-in-law, Charles T. Thurber. Thurber had been a schoolteacher and claimed the invention of the first practical typewriter. The company name was changed to Allen and Thurber and they immediately began production of their now-famous Allen and Thurber pepperbox pistol. It was given the name because of the arrangement of several barrels rotating around a central spindle. Nipples were set at right angles to the bore and the caps were struck by the single hammer falling on them as they came into a vertical position. Barrel lengths varied from 3 to 7½ inches and were made from .32 to .41 caliber. This pepperbox was a favorite of the 49ers, was the forerunner of the revolver as we know it today. The pepperbox shown was made in Worcester, Mass., at a later date, but is representative of the pepperboxes produced from about 1837 to 1856. It



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has a $3\frac{1}{4}$ inch .32 caliber barrel and carries serial number 185.

In 1837 Allen invented and secured a patent for a new lock for raising and releasing the hammer by trigger movement, the hammer being without a spur. This invention was first applied to the pocket rifles, then to pepperboxes, later to revolvers. This was one of Allen's major patents.

In 1842 Allen and Thurber moved their operations to Norwich, Conn., where they continued expanding and perfecting their line. They added a double-action .36 caliber percussion, paper cartridge, five-shot revolver. Success of this gun was short-lived since the flat bar hammer precluded the use of sights to improve accuracy.

In 1847 the company moved into the old Merrifield Building on Union Street in Worcester, Mass. In 1854 fire gutted the building, and they built a factory adjoining the old South Worcester railway station.

Allen and Thurber at that time produced a .38 caliber percussion target pistol. Measuring $14\frac{3}{4}$ inches overall, it had a plain metal finish, and a 10 inch half round, half octagonal barrel. It featured an outside hammer set to the side and a brass-tipped ramrod under the barrel. Because it was too long as a pocket pistol and too clumsy for target shooting, this type of gun never was accepted very widely.

In 1856 Thurber retired from the business and Allen took as his partner another brother-in-law, Thomas P. Wheelock. Wheelock had previously been connected with the firm for some time, and under the new name of Allen and Wheelock, more new models were added to the line.

The .22 caliber sidehammer revolver was patented by Allen in 1858 and its design refined in 1861. The barrel is $2-15/16$ inches long, and the engraved cylinder holds seven rounds. This gun also features the patented nail used as a cylinder pin. The use of this nail, however, presented a reloading problem since it was very difficult to remove it without the aid of a tool. This was one of the first guns of the line to utilize rimfire metallic cartridges.

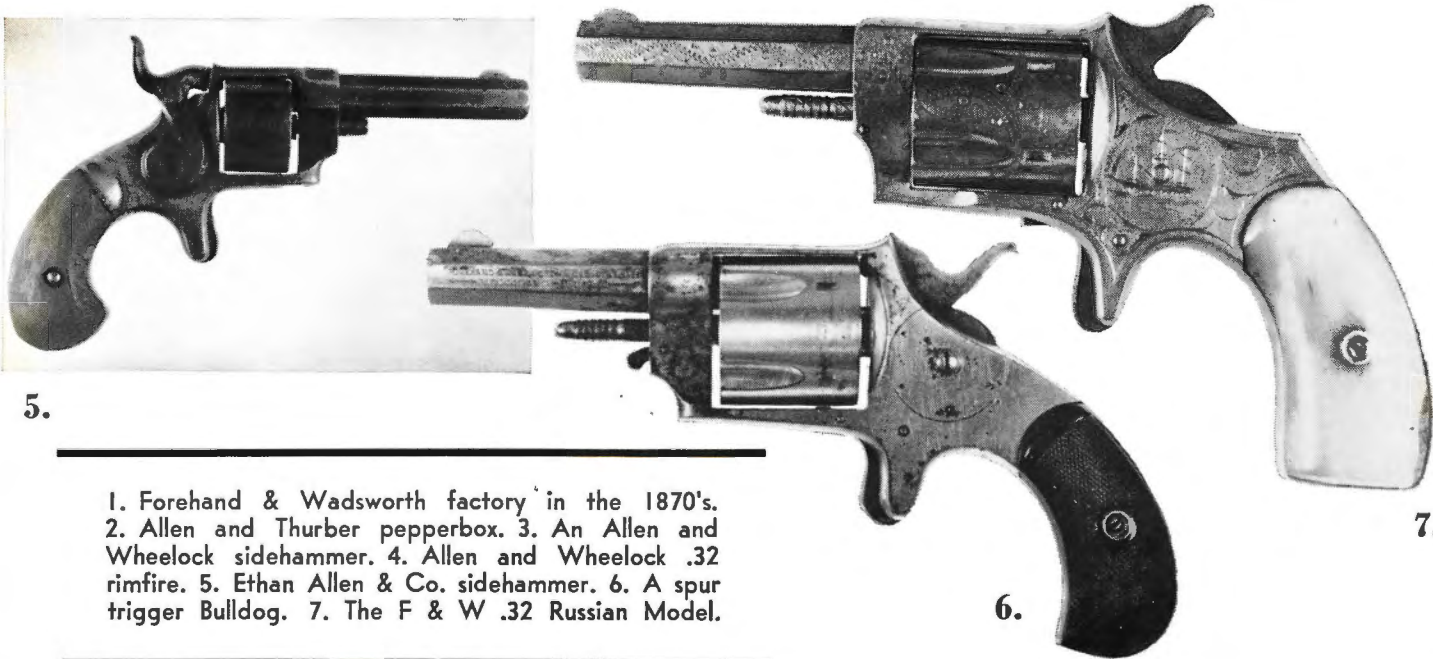
The Allen and Wheelock single shot pistol in .32 rimfire caliber has a center hammer, side-swing barrel, and light

engraving on the barrel flats. Barrel length is $4\frac{7}{8}$ inches.

For a time, Allen and Wheelock employed E. A. Prescott, who later formed his own company. With the production of guns utilizing bored-through cylinders, Allen, Prescott, Moore, Pond, Warner, and Bacon came forcibly to the attention of Smith and Wesson. Rollin White had sold patent rights to Smith and Wesson for the production of pistols with bored-through cylinders. White initiated infringement suits and Warner, Pond, Bacon and Moore then came to terms with Smith and Wesson. However, Allen and Prescott continued production of the offending guns until an injunction was issued against them in 1863. It appears that White was more lenient with Allen and Prescott since, unlike some of their competitors, they did not mark their products with Smith and Wesson's name. Prescott ceased production of his revolvers while Allen and Wheelock turned to the production of other guns after this setback. It is not known what damages, if any, were paid to Smith and Wesson by the firm.

Wheelock died in 1863 and two years later Allen took his sons-in-law, Sullivan Forehand and Henry C. Wadsworth, into the firm. The company name was changed to Ethan Allen & Co. Business continued and, when he was able to do so, Allen resumed production of pistols employing a bored-through cylinder, such as the sidehammer revolver. This is a seven-shot, .22 caliber revolver with birdhead grips, and a $2-7/16$ " barrel.

After Allen died in 1871, control of the business was assumed by Forehand and Wadsworth. Since the Rollin White patents had expired in 1869, the new company was unencumbered in producing bored-through cylinder pistols. There was a clamor for inexpensive pocket guns, and Forehand and Wadsworth added to their line the first of the very few cheap spur trigger models the company ever made. Although Forehand and Wadsworth guns were produced to sell for the lowest possible price, they were some of the best guns to be found on the market at that time. Using some of the same machines used by Allen plus a few new ones, the company maintained a standard of workmanship seldom met (Continued on page 54)



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1. Forehand & Wadsworth factory in the 1870's.
2. Allen and Thurber pepperbox. 3. An Allen and Wheelock sidehammer. 4. Allen and Wheelock .32 rimfire. 5. Ethan Allen & Co. sidehammer. 6. A spur trigger Bulldog. 7. The F & W .32 Russian Model.



Pull!

BY DICK MILLER

KEITH VAN KIRK, of Palatine, Illinois, broke 100 straight International style skeet targets to win the 1964 Illinois State International Skeet Championships, at Chicago's Lincoln Park Traps. This was the first perfect score in the Illinois state International rules event, which had its inaugural in 1963.

Ernie Fordham of Rantoul was runner-up, one target off the pace. Larry Partoll took the junior crown, and Mrs. Lee Mabie of Evanston solved 80 of the more difficult International targets to annex the distaff championship. Other high scores trailing Van Kirk and Fordham were fired by Kenneth Shaw of LaGrange, who broke 98x100, Joseph Partoll of Palos Park with 97, and booster of the International program, John Palacz, who dropped five targets over his favorite course.

Al "Tiny" Lofgren, well-known Midwestern two-way shooter, at home over either trap or skeet layout, has been elected president of the active Lincoln Park Traps, a gun club unique in that it is within sight of Chicago's skyscrapers, and almost part of the Windy City's downtown complex. Dr. Hugo Cutrera has been elected Vice-President, Jerry Froy, Treasurer, and Claude Bernhard, Secretary. J. O. Bengston and Mort Froy have been elected to the Board of Directors. The club now offers free shooting instructions every Wednesday and Saturday under the direction of a trained Committee. This is headed by John Palacz who is a good shooter and also a good shooting teacher, abilities that are not necessarily compatible.

PULL salutes Wrenn Nelson of the Lincoln Park Traps publicity committee. The post of publicity committee is an important one, and one neglected by too many gun clubs. Activity and programs are important to the life of gun clubs, but these programs often do little good unless they are properly publicized.

We are always happy to report outstanding shooting performances by either the very young or by senior citizens. The Grand American invariably produces stories of great shooting by men and women who, by the usual standards, should have long retired from any active sports participation. One of the 1964 top Grand stories, if not the top story, was the 100 straight 16 yard targets broken by Fred Ford of Birmingham, Michigan, on his 84th birthday!

Newsman Bob Atherton, now a New Yorker and formerly from Bucks County, wields a shotgun as well as he does the blue pencil. Bob tied with William Zehner of Oyster Bay,

New York, in the wind-blown Atlantic Indians Signal of Peace Handicap at Shawnee-on-Delaware, and wrote "30" to Zehner's hopes in the shoot-off. Mrs. C. W. Blank of Garwood, New Jersey, edged Philadelphia's Nancy Remmey for the Ladies trophy, and Zehner salvaged the doubles championship for his efforts.

Morris Yarnall, of West Chester, Pa., picked a good spot to break his first 100 straight. After Howard Lewis, Ken Miller, and W. W. Warner had put impressive-looking 98s on the score board, Yarnall went out and won the championship.

Howard Dilts, of Ringoes, New Jersey, is now convinced that good things, and good shooting come in pairs. On a recent Saturday, Howard broke 100 straight in the Quaker City Gun Club's annual championship program, then added 25 straight in a shoot-off, which still left him deadlocked with W. W. Warner of Bristol. He won the title on the flip of a coin and went on to win the All-Around trophy. The next day he broke 146 targets to win the Atlantic City Gun Club's Tercentenary Championships.

Dilts also tied Tom Moore of Philadelphia for handicap honors in the Quaker City Saturday program, but lost that shoot-off. H. T. Bullock of Vineland was doubles winner at Quaker City, by virtue of calling the toss of a coin with Bob Pagliughi. The Quaker City program pitted two of the Nation's finest feminine shooters against each other, and appropriately enough, they split the honors. Mrs. Rhoda Wolf took the 16 yard championship, and Mrs. Mary Christopher topped Mrs. Wolf in a shoot-off for

the handicap trophy. J. H. McCaffery, of Port Deposit, Maryland, topped the field in the WTA program at Glasgow, Delaware for the same week-end.

On the skeet side of the ledger, Holmesburg Fish & Game Association recently concluded a successful two-day program, Ray Corper from Ambler, Pa., took the opening-day 12 gauge event with 100 straight, and Louis Ferrair of Lynnhurst, N. J., topped the four-tenners with 45x50; 410 runner-up Bob Johnson went on to break 99 and win the second day's 12 gauge program. John Golden, Swedesboro, N. J., was runner-up to Corper for the opening day, with Robert Hardcastle taking the runner-up spot to Johnson on Sunday. Donna L. Struble, Glenside, took Ladies honors. In another Holmesbrug club championship event, John Cummings outlasted Alex MacDonald in a shoot-off, 49-48, after both had broken 100 over regulation distance.

Pennsylvania's West Chester Gun Club was the scene of another of those human-interest and colorful trapshooting stories. In a recent event at this active trap club, William Hunsberger won the program with 100 straight, and his wife, Jean, topped the ladies with 98, just two targets shy of hubby's perfect pace.

Clay target gunners helped themselves and their wildfowling brothers in the recent Ducks Unlimited Benefit Shoot, staged over the Atlantic City Gun Club traps. J. C. Moore of Trenton and Dan Sorantino from Cedarville shared in the top trophy division, and duck hunters everywhere shared in the over-all results. Moore topped the 16 yard field with a 99, while Sorantino copped both the handicap honors and all-around trophy.

Bob Fislser won championship honors at the Pine Belt (New Jersey) event, and runner-up Ervin Carslake salvaged the handicap trophy for his day's effort. Bob Pagliughi once again proved too tough in the concluding doubles.

There were 140 hopefuls in the Atlantic City Gun Club's big 200 target Fall event. When the smoke had cleared, 197x200 won the trophy for A. R. Arnell of Trenton. Kathy Gerken from Philipsburg, New Jersey, put together a respectable string of 191 windy targets for a feminine victory. Tom Chrisman, Mechanicsburg, Pa., shattered 376x400 targets for High-All-Around honors.

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Stevan Richards, with his Hammerli pistol.

Meet Steve Richards...

FUTURE PISTOL CHAMP

By PAUL B. GUNNELL

A SMARTLY DRESSED youngster approached the officials of the National Rifle Association in the judges' stand at the National Matches at Camp Perry. He asked if they would consider establishing a Junior Pistol Award. The officials listened politely, then explained that they had thought about it, but feared that it would be a difficult, if not impossible task.

The military bearing, and the intense interest in pistol shooting, of this boy intrigued me. I decided to find out more about him, and the more I learned, the more I became convinced that here was a youngster who would become one of our future pistol champions.

Stevan B. Richards was born 18 years ago at Bolling Air Force Base in Washington, D.C. His father, a Lt. Col. in the Air Force, was stationed in Tokyo from 1955 to 1957, and it was here that Stevan had his first introduction to a real handgun. Given an old Colt .45 auto (sans firing pin) by one of the members of the Honor Guard, Stevan soon learned to field strip and assemble it blindfolded.

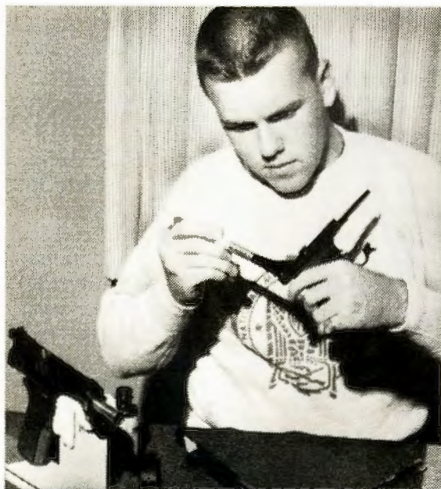
In 1959, the family moved to Annandale, Virginia, and at that time, for his 13th birthday, his parents gave him

a Marlin 39-A rifle with a 4X scope. That Christmas, he got a Winchester 94 in .30-30. At 14, he bagged his first deer, using the .30-30.

The first handgun Stevan owned was a .25 Browning automatic. Since he had little practical use for this, he traded it for a standard Ruger auto with fixed sights. With this gun he won his indoor pistol expert rating.

While working for his Eagle Scout rank, Stevan became interested in smallbore shooting. However, after he gained enough proficiency to earn a merit badge for marksmanship, he returned to his first love—pistol shooting.

While practising at an indoor range in Annandale, Stevan met the people who operated the range, a Marine Major and his wife. They took a personal interest in Stevan's shooting, and suggested that he buy a target pistol. His parents, seeing his desire for a more suitable pistol, surprised Stevan with a new High Standard Citation. After he had this fine target pistol, Stevan began practising in earnest. He did odd jobs at the range to pay for his shooting time, mowed lawns in the summer, shoveled snow in the winter. *(Continued on page 55)*



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BIRD HUNTING IN CANADA

(Continued from page 26)

Newfoundland

This province, comprising Newfoundland Island and Labrador, is mainly noted for its moose and caribou hunting, but there is also game for the shotgunner here. Snowshoe rabbits are well distributed, along with other species of hares. There is no limit on these, and the six month season runs from October through mid-March. For the grouse hunter, ptarmigan are found in most parts of the province, with a season open during the month of October. Daily bag limit is eight birds.

Migratory birds, including canvasback, red head, black ducks, and Wilson snipe, are found throughout the province. The seasons generally run from September through mid-November.

The non-resident license costs \$1.00 per day or \$5.00 for the season.

Prince Edward Island

This is the smallest of the Canadian provinces, and it is heavily cultivated. The combination of many small grain fields and its surprising forest growth make it a fine nesting ground for upland birds. Hungarian partridge, ruffed grouse, and ring-necked pheasant are the three chief upland birds, though they vary in number from year to year. In 1964, only the ruffed grouse was open.

A great variety of migratory birds are present on the island, including ducks, geese, Wilson's snipe, and woodcock. Seasons run from October through mid-December, depending upon the species.

The non-resident license costs \$35.00.

Nova Scotia

This province has a widely varied fare of hunting land, from forest, swamps, grain fields to barren countryside. In terms of numbers taken, grouse and rabbits are the most important small game species. Pheasant and Hungarian partridge are found in most parts of the province, but seem to be more abundant in the Annapolis Valley. Woodcocks are plentiful throughout N.S.

Some of the best waterfowl hunting in the Atlantic Flyway is to be found in Nova Scotia. The black duck accounts for about 60 per cent of the ducks harvested, with goldeneye (whistlers) and teal the other two most important species. Harvests in Cumberland, Yarmouth, and Shelburne Counties have been outstanding. Both ducks and geese are hunted with success along the coastal waters, and on a few inland marshes.

Seasons vary county-by-county, in length and time of opening. Small game licenses for non-residents are \$15.00 (grouse, partridge, and migratory birds); \$25.00 (woodcock and snipe); \$5.00 (pheasant).

New Brunswick

With more than 14 million acres of woodland and a 600 mile seacoast, New Brunswick has a natural endowment of fine small game hunting land. This province's woodcock coverts are among the best in Canada.

Pheasants were introduced here some years ago, and occasionally there is a short open season for them. Ruffed grouse and partridge seasons are open in October, and rabbit season extends from October through February, depending on the county.

As in Nova Scotia, the black duck is the most plentiful of the waterfowl, though good harvests of goldeneye, and teal are made. The Tabusintac area and Tantramar marshes are good spots for pintails, black ducks, brant, and Canada geese. Non-resident licenses are: Class 1, \$35.50 (good for 2 deer, rabbit, grouse, migratory birds, bear, bobcat, and other non-game animals); Class 2, \$25.50 (ruffed grouse, spruce partridge, and migratory birds); Special License, \$10.00 (certain fur-bearing animals such as bear, bobcat, fox, etc.).

Grouse season runs from October 1 through October 31, depending on county; migratory seasons are opened at various times from October through January according to zone designations.

Quebec

The largest province in Canada, Quebec has special appeal for sportsmen. It is estimated that an area of more than 300 million acres of this province is still in its natural state. It is little wonder then that Quebec has an abundance of all types of game. Hunting conditions in Quebec differ somewhat from that in other provinces in that much of the hunting territory is under lease to private clubs or individuals who can determine who will hunt on their preserves.

Birch, spruce, and Hungarian partridge and sharp-tailed grouse are hunted from late September through late November, while ptarmigan season runs from November 1 through the end of January. For those interested only in bird hunting, it is not necessary to travel deep into the interior to find good shooting. All species of ducks and geese are open for hunting from September through late December, with actual dates varying from zone to zone. Woodcock is hunted from late September through November.

Small game non-resident license is \$15.50, which includes upland and migratory birds.

Manitoba

The mostly easterly of the prairie provinces, Manitoba has over 75 per cent of its land area wooded, and nearly 39,225 square miles of water surface. The sharp-tailed grouse is the favorite upland game bird here, is found in all parts of the province, though heaviest concentrations are the Langruth-Amaranth and Pipestone-Melita districts and the Interlake country. The ruffed grouse is found in Manitoba's mixed forest area, and the spruce grouse in coniferous stands. Pheasants, pinnated grouse, and turkey are closed.

The Manitoba marshes are famous the world over as the stopping-off place for waterfowl using three of the four major North American flyways on their migratory flights. Fine goose shooting may be had in the

southern part of the province, but the most famous shooting grounds are the marshes surrounding the Pas, in the west-central portion. The better known duck hunting areas are the Delta Marsh at the south end of Lake Manitoba, the Minnedosa-Oak Lake pothole country, and the Whiteshell.

The non-resident game bird license is \$25.00 for the season.

Saskatchewan

The center of the prairie provinces, Saskatchewan's central plains are located in the heart of the "duck factory" of North America. Mallard, pintails, Canada geese and white fronted geese nest here in large numbers. The best goose hunting is found in the west central prairie regions. Although the birds congregate in large numbers on the lakes in this region, most of the hunting is done on the stubble fields where they feed.

The sharp-tailed grouse (the provincial emblem), ruffed and spruce grouse, Hungarian partridge, ptarmigan, and pheasant are found in varying numbers. Willow ptarmigan are to be found in the far north, but seldom come far enough south to be accessible. Wilson's snipe are hunted in all areas of the province, and sandhill crane hunting is open in the Last Mountain Lake and Quill Lake areas.

U.S. hunters may be disappointed to find that the bag limit allowed here may not be carried into the U.S. in some cases, due to state regulations. Hunters are advised to check with their state game department before their hunt.

The non-resident game bird license is \$26.00, and does not include pheasant (open for residents only) or sandhill crane.

Alberta

The bird hunter will find Alberta ideal for combined upland bird and migratory waterfowl hunts, especially in the southern and central regions. Ducks and geese provide early morning shooting in the irrigation districts of the prairies, while some of the heaviest populations of pheasants are afternoon targets. In recent years, Canada geese have nested on the southern prairies, and the hunter can readily mix his bag of these with upland birds. East-central Alberta is a natural pass for Canada, snow, and white-fronted geese on their way south.

Sharp-tailed grouse and Hungarian partridge are distributed over the southern and central regions. Blue and Franklin grouse can be hunted in the forested areas, and ptarmigan in the northern portion.

The non-resident game bird license is \$25.00.

British Columbia

Although British Columbia is noted mainly for its big game hunting, upland and migratory game birds are found in abundance. The west coast provides excellent waterfowl hunting, and upland birds are also available. The southern interior, owing to its easy accessibility, is probably the most popular hunting districts of the province. The Peace River country of northwestern British Columbia abounds with game, and as it becomes more accessible, it is sure to become a popular hunting area.

British Columbia is divided into 21 Game Management areas, and each has its own seasons, so it is imperative that you check the regulations in the area you intend to hunt. The non-resident small game license costs \$25.00, and is actually a firearms license.

Yukon and Northwest Territories

Though it is rare that hunters will venture to these areas solely for bird hunting, this is not to say that upland and migratory birds are not available. Both of these territories abound with grouse, ptarmigan, and a wide variety of ducks and geese. The inaccessibility of these areas and the lack of outfitting facilities, combined with the mandatory need for a guide, usually limits bird hunting to that done in combination with hunts for big game.



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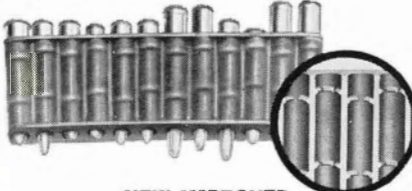
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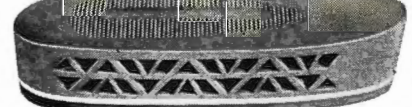
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A .444 BOLT ACTION RIFLE

(Continued from page 22)

side to allow the rim of the last round to come out bind-free and point itself into the chamber. The follower was then widened slightly by welding onto its right side.

Loading the rimmed ammunition into the bolt action magazine calls for positioning the rims successively in front of the round underneath as they are pushed down. Our .444 bolt action will feed only when the bank of cartridges is loaded completely to the rear of the magazine.

Functioning is reasonably satisfactory with the factory ammunition when the rifle is not fired and there is no recoil to thrust the ammo forward. The flatter-nosed 240 gr. Norma .44 bullets give more feeding troubles, occasionally hanging up on the chamber edges. Rimmed cartridge bolt actions such as the M70 .220 Swift and M50 .30-30's had forward sloping blocking plates fixed into the magazines to hold ammunition in the "rim-in-front-of-rim" position and avoid jump-over from recoil.

I'm confident that with such a magazine arrangement, a shorter follower and spring, feeding and rim jumping troubles could be eliminated. It will entail more experimental work, which was temporarily foregone. Robert L. Nestos of Portland, Ore., and I had a British Columbia moose hunt booked for October 16 with Guide Alf Harrison of Burns Lake. Time was getting short.

After scoping the gun with a 6X Redfield Bear Cub in a Buehler mount, and the barreled action in a military stock was cut off to free-float the barrel forward of the front guard screw, testing for accuracy and bullet drop began.

Recoil of the 9 pound bolt-action rifle is not objectionable. It is a comfortable push that gives you the feeling that you've sent something worthwhile on its way, and that its 240 gr. bullet with more energy than a 180 grain .30-06 load, will handle any game on the continent.

Factory ammo contains a 49.5 gr. charge of a powder resembling 4198. At 50 yards five shot groups frequently chopped out jagged holes with all shots touching, or one straying out several widths horizontally. At 100 yards groups opened up somewhat out of proportion to distance, giving 3 to 4 inch groups. Much handloading and experimenting was done in an effort to overcome this. My belief is that the pistol bullets are too soft for the added rifle velocity, and that some bullet distortion is involved.

Zeroing 2 3/4" high at 100 yards, point of impact was dead-on at 150 yards, and only 3 1/4" low at 200 yards. With this sighting arrangement using Buehler Hi rings, the shots are pretty well confined within a 6" black out through 200 yards, and for practical hunting purposes a center hold is permitted. Beyond 200 yards the large stubby bullet drops 15" below center at 250 yards, and is 3 1/2 feet below at 365 yards. Velocity tests over Bud Miller's ballistic pendulum at 40 degrees temperature with factory ammo averaged 2240 fps, with a low or 2212 fps and a high of 2276 fps.

Using RCBS loading dies, 240 gr. Norma .230 dia. Tri-Clad soft point bullets and CCI

No. 200 primers, our first handload contained 40 grains of 4198. Previous articles in GUNS Magazine on the Lever-Power cartridges indicated 4198 to be the best powder. Our first load was mild.

Gradually increasing the charge, loading and firing without any indications of pressure brought us to a solidly compressed load of 52 grains of 4198 behind the Norma 240 grain bullet. Velocity readings were as follows:

- | | |
|-------------|---------------------------|
| 1. 2364 fps | Temperature—40 degrees |
| 2. 2326 fps | Average velocity 2328 fps |
| 3. 2326 fps | Velocity spread 63 fps |
| 4. 2326 fps | Gain over factory 88 fps |
| 5. 2301 fps | |

We must caution readers that no loads used in our bolt-action rifle are recommended for use in the Marlin lever action gun.

Powders slower than 4198 are useless in the .444. Incomplete burning resulted from a compressed load of Ball-C powder and unburned particles had to be wiped from the barrel between shots. With 44 grains of 4227 and the Norma 240 gr. bullet, pressure signs appeared. Five shots averaged 2281 fps, or a 47 fps loss from the still mild-appearing 52 grain charge of 4198. We were losing velocity and gaining pressure, and we stopped using 4227.

We "magnumized" the .444 by pulling factory bullets, and reloading with CCI 250 magnum primers and 55 grains of 4198. Increased case capacity was made possible by seating and crimping the Remington bullets at their first cannellure. Fired at 25° temperature, these loads with extended bullet seating resulted in flatter primers than did factory loads, and for all practical purposes were considered maximum in our bolt-action. A working handload of 52 gr. of 4198, CCI 250 magnum primer, and the 240 grain bullet was settled for. The extended bullet "magnum" loads were not chronographed, but having already gained 88 fps over the factory ammunition, three additional grains of 4198 and the magnum primer undoubtedly brought the over-all gain to approximately 175 fps.

In preparation for the moose hunt I burned midnight oil inletting a Fajen AAA grade feathered crotch stock blank, water-proofed it inside and out with Mayer's stock finish. The 6X Bear Cub scope was replaced with a 4X to give approximately twice as much field of view for the swampy, brushed-in, lodge-pole, and aspen tangle of the moose country.

Grouping with and without upthrust fore-stock bedding tension gave comparable accuracy with the 24" barrel of .700" muzzle diameter, but changes in tension shifted zero. I then free-floated the barrel for the hunt. The barreled action of the .444 bolt-action weighs 6 3/4 lbs., but the dense wood of the stock brought it to 9 lbs. with scope and mount. As many of the curious gun nuts commented during building of this unusual piece, the barrel is mostly "hole." It's like

(Continued on page 44)

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(Continued from page 42)

a .410 shotgun! The .444 Marlin ammo will chamber in some .410 shotguns and will almost certainly fire in them! A bullet .020" larger than the average bore would probably at least blow the choked muzzle to shreds. Do not chamber a .444 in a .410 shotgun.

At the British Columbia hunting camp Guide Alf Harrison and assistant Alex Andrews viewed my "big-holed" rifle and cartridges with interest. Both agreed that the .444 should be a terrific moose gun. Three days of hunting were nearly over when I glimpsed my first moose. I wanted a large antlered bull for the .444 bolt action test, but by now I was considering a cow rather than flunking out.

Alf and I were stalking toward the area where the moose had disappeared when suddenly he stopped, pointing to our left. "Big cow if you want it," he whispered. "No calf with her, no finer meat." I watched her for perhaps 10 seconds. In the dim light of the dense forest she looked huge. "I guess I'd better take her," I whispered back, half reluctant and almost wishing she'd disappear. The moose was at a steep angle, making a true lung shot impossible. Snugging the scope's dot close to her shoulder I squeezed the trigger. The dull thud of the 240 grain Remington soft point bullet mingled with the report. The big animal flinched and trotted away as if mosquito-bitten. When about to sink a second bullet into her rib cage the guide cautioned me, "Hold it, you got her." Soon we heard the coughing that comes from a large animal when lung shot. She had gone a scant 50 yards to die.

When skinning the quarters in camp it was discovered the bullet had nicked the shoulder blade on entry and taken out two ribs going in. The near lung had a gaping wound channel and the rear portion of the opposite lung was badly damaged. Remains of the slug were recovered between the last ribs on the opposite side, and weighed 217 grains. Although no large bones were struck,

excessive expansion and jacket and lead separation indicated that a tougher bullet would be better for large game.

Several weeks later, Bob Parcher and I were hunting whitetail deer on Colville mountain. A three pointer was streaking through the small firs and underbrush when I fired. Within three jumps after the 240 grain Remington bullet tore through his brisket, he piled up once, dropped for keeps within 30 yards. Entering wound was half-fist-size. While it was not possible to locate the brush it had contacted before hitting the deer it was quite evident that this had happened. Only 155 grains of mutilated



Author pays trophy fee on moose.

jacket and lead were recovered from the upper leg on the opposite side. Again it appeared that a tougher bullet is in order.

The energetic thump of the .444's 240 grain bullet is impressive as is socks into earth, wood, moose, or deer. Although both my kills were made at 65 yards, where velocity and bullet expansion is at its maximum, it is evident that big game hunters will have a superb brush-busting rifle with excellent penetration.

In the Marlin 336 lever action all this is packaged into a gun normally thought of as "just a .30-30." It's an old-style cartridge gone modern while retaining its frontier look. And handloading for the .444 bolt action gives me a .444 Magnum!



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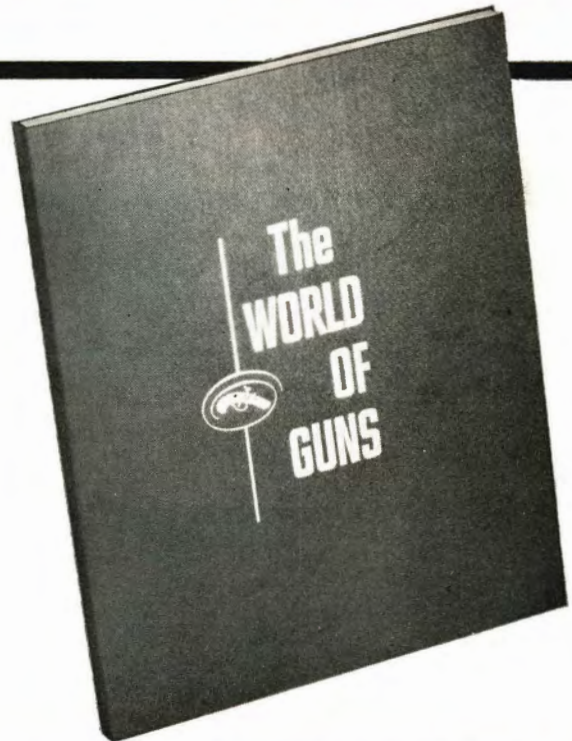
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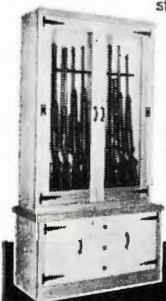


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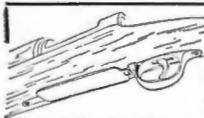
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REMINGTON .350 MAGNUM

(Continued from page 35)

were topped by either Redfield or Leupold pistol scopes. These were mounted well forward for the long eye relief, and both companies will have mounts on the market by the time you read this article. In order to give a firm base for scope mounting in this forward position, Remington raised the barrel bracket that is located between action and barrel. This gives the scope considerable support and helps to keep the scope zeroed. If you don't care for the forward mounted scope, you can have your scope mounted in the standard fashion. This would have the advantage that you maintain the integrity of the open rear sight which must be removed if the scope is mounted forward. In forward mounting, the holes that hold the rear sight are used for the scope mount, thus depriving the shooter of the emergency use of the factory sights. This leaves scope mounting up to the individual buyer, and I consider this as advantage.

Aside from the laminated stock, there is one other major change in the Magnum version—the barrel has been made heavier for the .350 and twist is 1 in 16 inches.

THE .35's

Caliber	Bullet Wt.	Powder	MV (fps)	Twist	Source
.358	200 gr.	2530	2530	1-12	Factory
.35 Whelen	200 gr.	57 gr. 3031	2820	1-16	
	250 gr.	54 gr. 3031	2506		Speer
	250 gr.	54 gr. 3031	2625		P. O. Ackley
.35 Newton	200 gr.	68 gr. 3031	2625	1-14	P. O. Ackley
	250 gr.	66 gr. 3031	2665		Speer
.35 Ackley Magnum	200 gr.	60 gr. 3031	2824	1-14	P. O. Ackley
	250 gr.	65 gr. 4350	2850		P. O. Ackley
.35 Belted Newton	250 gr.	69 gr. 4320	2960	1-14	P. O. Ackley
	250 gr.	69 gr. 4320	2725*	1-16	Remington
.350 Rem. Magnum	200 gr.		2410*		
	250 gr.		2410*		

*Although it may appear that the new .350 Remington Magnum does not compare favorably with other .35's, it must be kept in mind that these ballistics for the new Remington cartridge are based on the 18½ inch barrel, while most of the factory ballistics for the above cartridges were taken in 24 and, in some cases in 26 inch barrels.

The Magnum model holds three cartridges in the magazine and one in the chamber.

The .350 Remington Magnum ammo is loaded with either the 200 gr. or the 250 gr. pointed Core-Lokt bullet. The case is a somewhat shortened 7 mm Remington Magnum case, and this case, in turn, had its origin with the .300 H&H case. Shoulder is 28°, and Wayne Leek of Remington reports that water capacity of the case is 65 grains. I checked capacity of a fired and neck-sized case. Filling it to the shoulder, I managed to get 67.1 gr. of Ball C, Lot #2 into the case. Case length is 2.164 inches, and loaded with the 200 gr. bullet, the cartridge measures 2.741 inches. At press time, no 250 gr. rounds were available, and I received only 20 rounds of the 200 gr. ammo. Originally, the gun was shipped to me so that Jim Thomas of WGN-TV and I could make a movie for his outdoor show and for Remington, but a severe snow storm forced a postponement of these plans.

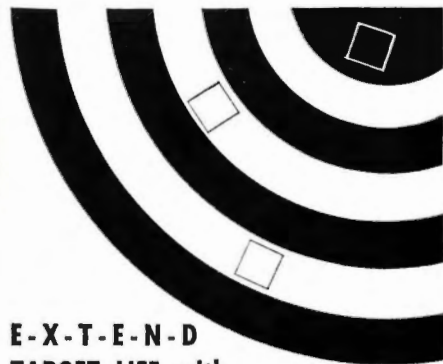
The 200 gr. rounds are loaded with 53.7 gr. of a non-cannister powder. RCBS air-mailed me a set of loading dies, thus enabling me to reassemble the rounds and also start some handloading before the gun had to be returned to Remington.

All testing was done with open factory sights, and penetration tests with Remington ammo and with handloads were nothing short of spectacular. Here are the factory ballistics. It should be noted that these data were compiled with a Remington 600 Magnum gun and a 18½ inch barrel. The data due to be published later were determined with a 20 inch test barrel, and they will therefore differ somewhat.

The ballistics and the inherent accuracy of the gun and the ammunition qualify this Remington creation as an out-and-out big game rifle. Wayne Leek and Les Bowman, big game guide and ballistics experimenter,

but also considerable destruction. One bottle containing frozen water shattered so completely that parts of the bottle were never recovered. Although this is by no means a scientific test, it does indicate that heavy bone, when hit with the 200 gr. bullet from the .350 Magnum, will be damaged considerably and there should be little doubt that the .350 will anchor big and dangerous game. Several experienced Kodiak bear guides, who also saw and fired the gun, consider the .350 Remington Magnum as the ideal big bear rifle in the thick alder country they hunt.

Accuracy tests were hampered by lack of enough factory ammo. All firing was done at 50 yards and range temperature was a chilly 7° with a 15 mph wind. Several three shot groups from the bench averaged 2 inches center to center, but I am confident that the gun is capable of better accuracy. The rela-



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Range (Yds.)	Velocity (fps)	Energy (ft./lbs.)	Drop (Inches)	MRT (Inches)	Trajectory (Inches) sighted in at 200 yards
0	2725	3290	—	—	—
100	2355	2465	2.6	0.7	+ 2.7
200	2025	1820	11.5	3.2	0
300	1730	1325	28.9	8.3	-11.2
400	1470	960	58.1	17.6	-34.2
500	1260	705	103.3	32.7	-73.2

250 gr. Pointed Soft Point Core-Lokt

Range (Yds.)	Velocity (fps)	Energy (ft./lbs.)	Drop (Inches)	MRT (Inches)	Trajectory (Inches) sighted in at 200 yards
0	2410	3220	—	—	—
100	2135	2535	3.2	0.8	+ 3.4
200	1885	1975	14.1	3.8	0
300	1660	1530	34.8	9.8	-13.2
400	1460	1185	68.2	19.9	-39.0
500	1285	920	118.0	35.9	-81.3

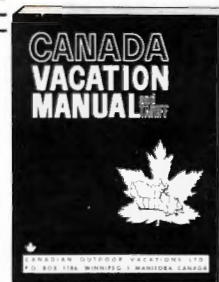
put the .350 through its paces last hunting season. All of the kills were one shot ones, and ranges varied from 75 yards right out to 250 yards. Mule deer and antelope dropped in their tracks, and one large moose moved a few yards before succumbing to the effect of the bullet. Both men were trophy hunting, thus were not overly concerned with meat damage, but they agreed that damage with the .350 was not any greater than that caused by any of the .30 caliber magnums.

Firing from 25 yards at a five inch thick seasoned oak log, the 200 gr. Remington bullet tore clear through the log, leaving an exit hole of about .50 caliber. Shooting into the end grain of the same log from the same distance, bullet penetration was six inches. Plastic bleach bottles filled with water, when hit from varying distances, showed not only excellent bullet performance

tively poor showing was due to the use of the iron sights and the wind made shooting a chore rather than a pleasure. Handloads with the 200 gr. Norma bullet averaged 1.75 inches, and the 250 gr. Speer bullet groups averaged 2.15 inches. On the Remington range at Ilion, New York, scoped rifles produced several excellent groups at 100 yards. Wayne Leek told me of a number of five shot, 100 yard targets where groups measured 0.75" from center to center.

The .350 Remington Magnum cartridge and the Model 600 Magnum carbine chambered for this potent cartridge, offer the big game hunter a powerful, if not the most powerful, bolt-action carbine on the market today. I hope to have a chance to try the new Remington combination on big game shortly and will also report on further ballistics tests as soon as ammo becomes more plentiful and weather conditions permit.

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(Continued from page 31)

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Yukon normally go for the "big four," as in Alaska. These are grizzly bear, moose, caribou, and sheep. The Dall is the sheep species of the Yukon, with the southern boundary of the Territory marking the practical limit of the Dall's range southward.

Licenses for big game and birds cost \$100 for aliens and stateside hunters. These licenses permit the taking of two trophies. Additional big-game trophies cost \$25 each. As an example, a U.S. hunter taking moose, caribou, grizzly, and sheep would pay \$150 in license and trophy fees. In addition, there is, for the non-resident, a special Spring Bear Hunting License at \$50.

One of the most important factors to the non-resident intending to hunt the Yukon is their system of allocating hunting territories to the various outfitters. An outfitter is a must for the non-resident.

In some of the United States, a capable outfitter may, on his own initiative, go into a good game area, develop it, and lay some moral, but not legal, claim to it as "his" hunting country. Other outfitters usually stay out with paying guests, by mutual agreement.

The situation is far different in the Yukon. There, the Canadian government sets aside a particular area for a certain outfitter, and it becomes virtually his property. He is required to maintain certain standards in his camps, the way he harvests game, and in the maintenance of equipment and number of parties he handles. So long as the outfitter does this, the prescribed area is his. He may, if he wishes, sell this hunting country with his outfit, much as real estate is conveyed in the U.S.

At this writing there are 21 registered outfitters in the Yukon, each with a prescribed hunting district. Regulations require that the non-resident hunt with a registered guide, and these are normally furnished by the outfitter as part of his services, for which the hunter pays. In the past, only Yukon residents could be employed as guides. This ruling has caused difficulty in many cases, but efforts are being made to remedy this, and the 1965 season will certainly see an improvement.

Yukon hunts for the non-resident are usually furnished hunts. Everything except guns and personal gear is furnished by the outfitter unless other arrangements have been made. Hunts vary between outfitters as to the minimum number of days, the number in the party, etc., as do prices. In Alaska, the non-resident hunter must figure on \$100 to \$125 per man per day as outfitting fees among the better outfitters. In the Yukon, this is somewhat less. The only sure way of determining this for a current season is by writing the particular outfitter.

When planning a Yukon hunt, it is important for the non-resident to know that the season for most species of big game opens August 1st, and generally runs to November 30. This is true for sheep goats, caribou, and grizzly, with a special April 15 to June 15 season in addition for grizzly hunting in the spring. It is also important for the non-resident to keep in mind that most outfitters begin their season's hunting with the "highest" species—sheep and goats—then work downward out of the highest country as the season progresses, to species (such as moose) that inhabit lower elevations. In timing a hunt, then, it's generally wise to plan a ram hunt early in the season; and caribou and moose hunts for later.

Finally, any arrangements with an outfitter should be made early—by May or June preceding if possible. It's wise, too, to have all agreements in writing, to save later misunderstanding.

In making reservations, the hunter and outfitter agree to meet at some specified place on an agreed date. This is usually at one of the larger Yukon towns, a lodge along the Alaska Highway, or the outfitter's headquarters, from which the party is moved into the hills. Transportation to such a rendezvous is, in itself, a most interesting part of the trip.

One scenic way is from Seattle, Washington, via Vancouver, B.C., to Skagway, Alaska; then complete the journey over the White Pass & Yukon Railroad to Whitehorse. Another is to fly, drive, or take a train to Edmonton, Alberta, then cross into British Columbia on a Canadian Coachway bus, get onto the Alaska Highway at Dawson Creek, and up to Yukon. These buses run all the way to the Alaska border.

If the hunter drives, his vehicle should be in good mechanical condition. Pickup trucks and pickups-with-campers are very popular. Accommodations are now available at reasonable intervals all the way up the Alaska Highway, though costs run from one-fourth to one-third higher for travel than in the United States.

For the hunter whose time is limited, flying is the most popular and economical way. Commercial airlines make regular scheduled flights to Whitehorse. Private or chartered planes have good airport services at such places as Whitehorse and Watson Lake. Where it is part of the arrangement, float planes can be chartered at Whitehorse, Watson Lake, and Dawson City (not Dawson Creek), to take the hunter into "back country," where he is set down upon an available lake. Often the outfitter will meet such a float plane with the pack string.

The Yukon has a limited number of roads for such a vast region. Because of this, only limited portions of the hunt may be made using a road to get from place to place, depending upon the location of the various species.

In the case of sheep hunting, common to the highest and roughest elevations, some back-packing is done. That is, the hunter

(Continued on page 50)

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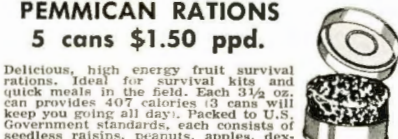
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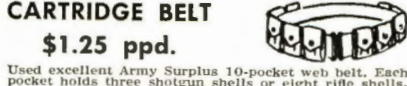
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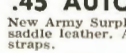
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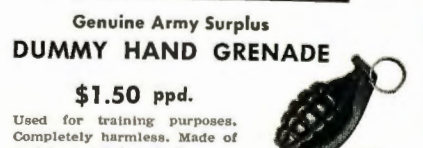
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(Continued from page 48)

hunts from a "bush" camp, bags his ram, and the guide totes the trophy out on his back.

By far the most common means of hunting in the Yukon is, however, by horseback. Camps are set up, usually in advance of the season, using pack-stock to haul in the gear. Hunters reach these camps and do their hunting from a saddle horse. Once the game has been located, via spotting scope or binoculars, and approached to within reasonable distance, then the final stalking is done on foot.

That, in brief, is the situation as regards hunting in Canada's Yukon Territory. It's a magnificent, wilderness land, where there are numerous big-game trophies which will break existing records. It's still wild up there, still breathing history and excitement.

British Columbia

When it comes to big game trophies, British Columbia takes a back seat to no other province. The variety and quality of its big game will convince any trophy hunter that this is truly one of the greatest big game hunting areas in the world.

British Columbia is probably best known for its moose. They grow to enormous size here, are found in most of the province except the coast and coastal islands. When you think of record moose, the first spot that comes to mind in the Cassiar Mountains, in the far northern part of the province. This area has probably produced more record moose than any other, though excellent prospects are also found in the Cariboo District, which is in the east-central part of the province, and a bit more accessible.

British Columbia boasts the largest population of grizzly bear to be found in North America, and is, in fact, one of the last important stands of these highly coveted trophies. Favorite spots for grizzly are the area around Quesnel Lake, in the east-central portion. But even in these regions, your chances of getting a grizzly are speculative, and few guides or outfitters, if any, will guarantee you a shot, let alone a trophy.

Four varieties of mountain sheep are found in B.C., the Rocky Mountain and the California bighorns, and the Stone and Dall. The Rocky Mountain sheep are found mainly between Jasper and Banff, and they seem to be plentiful. Such is not the case, however, with the California bighorn. Wildlife experts estimate that there are only about 1,000 of these in the world, and they are scattered in bands in the central part of British Columbia.

For the goat hunter, British Columbia offers some of the finest specimens anywhere. They are abundant, and their range is so remote that hunting pressure does not seem to reduce their numbers. The conservation authorities estimated that the total population of goats in B.C. in 1961 was over 100,000, and there is no reason to believe that their number today is any smaller.

British Columbia also has more than its share of antlered game animals. The woodland caribou, with its handsome rack, is found in the Rocky Mt. trench and on the eastern slope of the Coast Range from Charlotte Lake northward. Elk were once present throughout the province, but seem to be congregated in the northeastern sec-

tion, in the Red Pass area, in the Kootenay district, and on Vancouver Island. In some of these places, especially where extensive farming is taking place, they are almost too numerous, and their habit of wrecking haystacks and fences makes them unpopular with farmers.

British Columbia also offers some of the finest cougar and wolf hunting in America. This province has an abundant supply of these predators, listed as big game animals.

License requirements in British Columbia differ from those of most of the other provinces. The non-resident U.S. hunter must first purchase an Alien Firearms License which costs \$25. He then purchases big game tags for whatever species he intends to hunt. These cost \$5 each for sheep, grizzly, and moose; \$3 for caribou; \$2 each for goat and elk; and 50¢ for deer.

This takes care of the preliminaries, but there is more. After the hunt, the hunter pays a trophy fee for each of the animals he has bagged. These are priced as follows: sheep, \$75; moose, elk, caribou, grizzly, \$60; goat, \$40; deer, \$25; black bear, \$5.

As in the rest of Canada, non-resident hunters are required to hunt with a registered guide. And although there are many excellent guides in each of the areas, they are all usually booked far in advance of the season. The earlier you can make your plans, the better chance you'll have of getting a guide, and a shot at British Columbia trophies.

Other Provinces

Although Alberta, British Columbia, and the Yukon are generally the first to come to mind when thinking of big game hunting in Canada, this does not mean that there is no big game in the other nine provinces. However, space does not permit us to go into detail on the hunting prospects in each of these provinces, and you should not hesitate to look into these when making plans for a Canadian hunt. In some cases, because of the easy access, proximity to your home, and a somewhat better chance of getting an outfitter, you may be in a better position to afford both the time and money that a hunt outside of the "trophy provinces" will cost. This is especially true if you are seeking a moose, which may be hunted in Newfoundland, Quebec, Ontario, Manitoba, and Saskatchewan. Nearly 5,000 moose are taken in Newfoundland each year. Caribou are plentiful in parts of Newfoundland, and black bear and deer are hunted successfully in almost every province.

To sum it up, there are big game hunting thrills in store no matter what area of Canada you hunt, and the big game hunter should remember that he can combine bird hunting with his big game hunt in every province. The hunter who takes only his rifle, who leaves behind his favorite upland or waterfowl gun, is missing an opportunity for some of the finest bird shooting on the continent.

Canada is justly proud of its excellent forests, prairies, and waters, and the U.S. sportsman who treats them with respect, and who recognizes the need for observance of all of its game regulations will be welcomed back to Canada for many more enjoyable hunts.



MARLIN'S .444

(Continued from page 19)

beyond 200 yards on game, and one Marlin representative was quite emphatic in his views which merely confirmed the field reports—the .444 Marlin is an up to 200 yard cartridge and gun! Trying for shots beyond that range is folly since drop becomes too great and remaining energy is just not there.

Having grown up with a bolt-action rifle, the lever-actions have never been able to excite me overly. Lately, I have begun shooting my .30-30 a great deal, thus was anxious to see how the new Marlin gun handled. I was not only pleasantly surprised, but the straight grip, the greater stock length, the improved eye relief, and the whole appearance of the gun pre-sold me on it even before I had a chance to take it to the range. My first function tests were more fun than I had thought possible, and in firing over 300 rounds, there was not a single failure to feed, extract, or eject! Best of all, the gun, despite its magnum-like appearance, handled exceptionally well, and recoil was not at all unpleasant.

range made further tests impossible—the fine sand in the bullet recovery box was frozen solid. The first recovery test from 100 yards produced a bullet that weighed 136.9 gr., while the second recovery, fired from 50 yards, produced another perfectly expanded bullet that weighed 184.8 grains.

Fred Huntington of RCBS furnished me with loading dies for the .444 shortly after the NRA show, and the #4 RCBS shell holder is the one to use for the Remington brass. Dies are of the pistol variety, that is there is a sizing die, an expanding die, and the seating die will not only seat but also crimp the case mouth. Although .44 caliber bullets are plentiful, and some gave good accuracy, most of the bullets used in the first tests have so much lead exposed that cartridges loaded with them had to be single loaded since loading from the magazine damaged the bullets. Speer, Jurras, and Harvey Jugular Jacketed bullets performed well in preliminary tests, but most of the final testing was done with the jacketed Norma and

Comparison Table

	.30-30	.35 Rem.	.44 Mag.	.444 Marlin
Bullet wt.—(gr.)	170	200	240	240
Muzzle velocity—(fps)	2220	2210	1850	2400
Muzzle energy—(ft./lbs.)	1860	2170	1820	3069

.444 Marlin Cartridge

Range (Yds.)	Velocity (fps)	Energy (ft./lbs.)	Drop (in.)	Trajectory	
				Mid-Range (in.)	Sighted Rifle (in.)
0	2400	3069	—	—	—
50	2110	2372	0.8	0.2	+0.6
100	1845	1814	3.6	1.0	0
150	1610	1381	9.1	2.6	
200	1410	1059	17.8	5.3	-9.6
300	1125	675			-36.7

With a Redfield peep sight mounted on the side of the gun, and firing five shot strings at 100 yards from the bench, groups averaged from 2.5-3.0 inches. With a 2½X Marlin scope with Marlin rings and base, the gun was fired first at the 100 yard target from the bench, then from the sitting position without the use of the sling. Five shot strings of five rounds from the bench averaged between 0.75 to 2.00 inches, and the three shot strings from the sitting position opened up to 2 inches. Although this is not bench-rest accuracy, it is more than adequate for hunting at the under 200 yard range limit for which the gun was designed. A shot string with the last five rounds of factory ammo was fired off-hand at 100 yards, and with the Marlin scope, the group spread to only 2.75 inches—virtually guaranteeing venison in camp that night! Only two bullet recovery tests were made since a later session at the

Remington bullets.

With the Norma 240 gr. bullet and 49.0 gr. of 4198 and CCI 200 primers, several five shot strings from the 100 yard bench measured between 1.5 and 2.25 inches, center to center. Two groups, fired on two different days but at the same target, gave 1.5 inch groups. Loading 49.5 gr. of powder and using the same components did not improve groups, and since only recoil and blast were increased and gain in muzzle velocity was negligible, I settled for 49.0 grains of powder as standard load for the Norma bullet. The Remington bullet gave almost identical results, except that some of the groups with 49.5 grains of powder were just a fraction of an inch tighter than those produced by Norma bullets. The Remington bullet is longer than the Norma product, which has only one cannellure, and this might account for the somewhat tighter groups.



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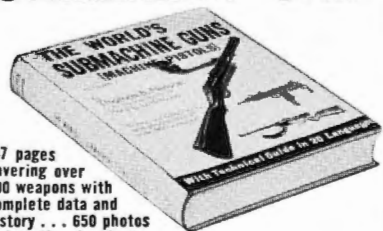
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Again using Remington and Norma bullets, I tried the same loads, but this time used the CCI 250 Large Rifle Magnum primers. Best groups were fired when the load was reduced to 48.5 grains, and groups showed an extreme spread of 1.45 to 2.00 inches. With this load, both the Norma and the Remington bullets produced two absolutely identical three shot groups at 100 yards from the bench—both were fired with scope, and measured 1.45 inch. The Norma bullet with the CCI 250 primer and 48.5 grains of powder gave one fluke group which I was unable to duplicate—three shots went exactly 0.75"! One test group, using the magnum primer and 49.0 grains of powder, was fired with the Redfield sight at 100 yards, and



Marlins, left to right: New Model 99M1; Model 336 in .30-30; and Marlin's newest .444 lever action.

this too I was unable to duplicate—the five shot group measured barely 2.25 inches.

It is not likely that the new .444 Marlin will replace the old .30-30 overnight. But—and this is strictly guesswork—I'd venture to say that the .444 Marlin will become popular with those who hunt in dense timber, and the cartridge is not necessarily restricted to deer hunting. Elk, moose, caribou, and even some bears have already fallen to this new Remington-Marlin combination of ammo and gun. My only reservation is the 24 inch barrel which, at least to me, appears to be unduly long for a brush rifle. Cutting a couple of inches off the barrel should not affect the ballistics too adversely and would make this new Marlin gun an even better brush rifle.



YEAR OF DECISION

(Continued from page 17)

can be falsified, forged, or otherwise made valueless. But—

Clause 4 does *not* include police registration of firearms by serial number. Firearms representatives demanded, and the Dodd subcommittee agreed, that the amendment specifically stipulate that the affidavit shall not include the serial number of the gun.

Clause 4 does *not* give the "police authority" the power to forbid the sale. The original wording here did require that the police authority must approve the affidavit before the sale could be completed; but this was strongly opposed by industry, shooting sports, and law enforcement representatives alike, and the Dodd subcommittee finally agreed that this granting of permissive police power was unjust to buyer and seller alike and should be omitted.

Clause 4 *does* enable (but not require) the local police authority to ascertain whether or not the buyer is of lawful age, is or is not a law-abiding person. Law enforcement people (those present at these discussions, and others) are quick to admit that very few police agencies have the time or the man-power to investigate all of the thousands of mail-order gun buyers. Nobody thinks these affidavits will suddenly make it impossible for criminals and/or juveniles delinquents to obtain guns. Everybody knows that having to fill out the affidavit and have it notarized is a nuisance to the law-abiding buyer, and that many will resent it. The one argument in its favor is that it does place one additional obstacle in the path of the undesirable gun buyer; and if the police do investigate, and do prevent the delivery of a gun into criminal hands (as they already have the right to do, under existing statutes), perhaps it is worth trying.

Doubt was expressed, in our discussions with the Dodd people, as to the willingness of any common carrier to accept the responsibility which Clause 4 imposes. The word "knowingly" weakens that responsibility, but was essential, since certainly the agent of the carrier could not reasonably be punished for delivering a firearm to a well-dressed and affable stranger who later turned out to be a member of the crime syndicate. He could, however, and would be expected to use whatever knowledge he might have about the known bad guys in his community; and he could, and should, demand something better

(Continued on page 54)

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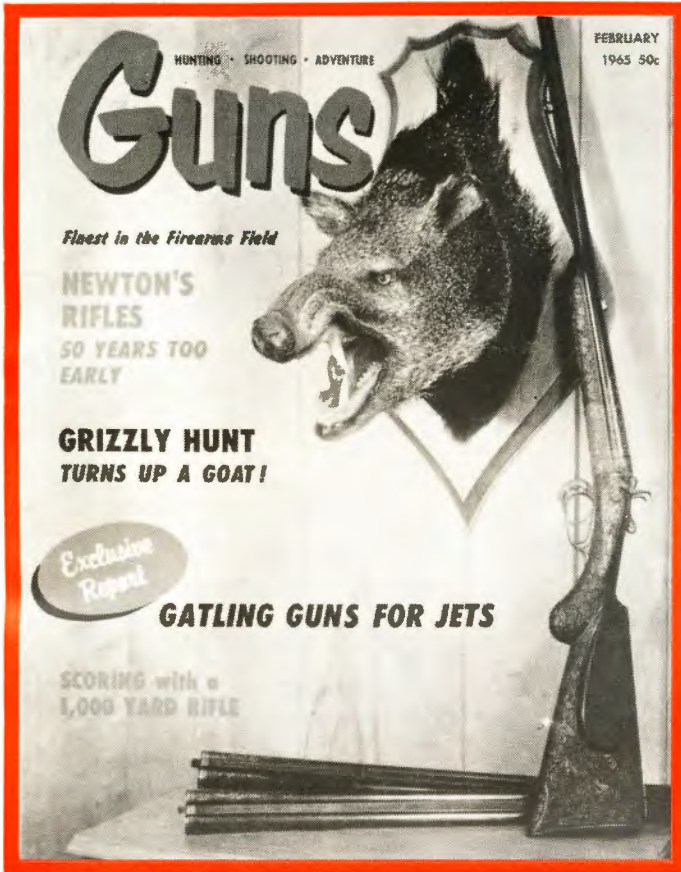
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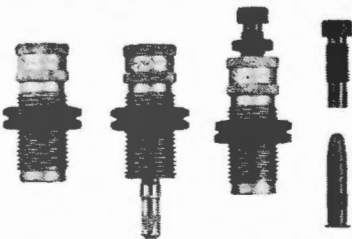
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(Continued from page 52)

than the mere name on the package before delivering a gun to an obvious sub-teenager.

In an address given before the Chicago Railway Special Agents and Police Association last October, William B. Johnson, President of R E A Express, accepted on behalf of his company the responsibility of restricting the delivery of mail-order guns to the extent suggested in the Dodd amendments. President Johnson's sentiments as expressed in this speech are not of a kind that gun people would find very palatable, but they do commit his agents to the exercise of caution in the delivery of mail-order firearms.

Many observers believe that the Dodd Bill will be forced out of committee and presented to the Congress for vote during the 1965 sessions. We do not suggest that you support it; but we do suggest that, before you oppose it so vehemently as to make presently open-minded lawmakers mad at all of us, you remember that there are many bills in the offing that are infinitely worse than this one—and that the men who advised the Dodd Committee that they "had better come up with a gun bill with teeth in it" are still men of power in Washington, ready and eager to "make headlines" with really tough gun legislation.

There is also one bill in preparation that could supplant the Dodd Bill very soon after it is enacted (if it is enacted), and which could go far toward improving the entire "climate" of public and legislative opinion regarding guns and gun laws generally. That bill is the "Pro-Gun Law" in process of preparation by this magazine. You will hear more about that, now that the election is over and once we can learn "Who's Who" in 1965 Washington.

Meanwhile, get into politics in your own community—to the extent, at least, of being alert to what may be (and probably is) cooking in the way of gun legislation. Let us know what you find out. We'll help to the limit of our resources. But don't wait! Rally your friends, the friends of guns and the shooting sports, and take action! It's your state and your community. It's your right—and because rights go hand in hand with duty, it's your duty—to see that it's the kind of a community, the kind of a state, you want to live in.

And if you get your lily-white hands soiled a little with politics, rub a little gun oil on them. You can then at least continue to smell like a shooter. And you might not be able to do that if you let the other fellow run your politics.

SPUR TRIGGERS

(Continued from page 37)

by any of their competitors. One of these is a .38 caliber rimfire revolver made under patents of October 22, '61, and April 20, '75. It has a 2½ inch octagonal barrel with a five shot cylinder and birdhead grips. The company also made several other guns similar to this one, among them the British Bull Dog, Swamp Angel, and Terror. In 1880, the .38 RF gun listed, in some gun catalogs, for as little as \$4.75.

An unusual gun made by this company is the Russian Model 32, fully engraved with bone grips. It too, has a 2½ inch barrel, but is chambered for .32 caliber rimfire. The engraving on the left side depicts a three-masted sailing ship. The purpose behind the manufacture of this weapon is unknown, but possibly it was produced with an eye toward Russian trade.

In 1877, Forehand and Wadsworth produced their Army Revolver which greatly resembled some of the later Smith and Wesson pistols. It was a six shot, single action, solid frame revolver chambered for the .44 centerfire cartridge. It weighed 2 pounds 8 ounces and was 13½" long. This model never did become popular, and the company produced a large number of revolvers, both single and double action. Most of these guns were designed to compete on a nearly glutted market.

Henry Wadsworth retired about 1880, and the firm was renamed the Forehand Arms Company. Manufacture of the small spur trigger pistols was continued until their popularity waned. Emphasis was then placed on double action revolvers and small rifles. Few, if any, new models were added to the line and the general quality of the firearms declined considerably.

Sullivan Forehand died in 1898 and the firm was sold to Hopkins and Allen of Norwich, Conn., in 1902. This company was absorbed by the Marlin-Rockwell Corporation during World War II.

Thus passed from the American firearms scene a company that was founded by a man with an idea and an aptitude for things mechanical. For too long spur trigger guns in general, and these pistols in particular excited very little collector interest. But this attitude is changing slowly, and spur triggers are now being accorded their rightful places in the collector world.

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FUTURE PISTOL CHAMPION

(Continued from page 39)

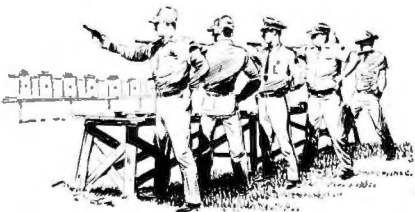
When he finally had enough money saved, he bought a used Smith & Wesson K-38 Combat Masterpiece; later, after earning more money, he purchased a S&W Model 52 automatic in .38 caliber.

Stevan's first pistol award was won on his 16th birthday, while shooting as a Civilian Unclassified at the Middle Atlantic Pistol Regionals, held at Quantico, Va., in 1962. After tasting victory, Stevan convinced his parents that their summer vacation should be spent at Camp Perry, rather than the traditional week in Maine. At Camp Perry, Stevan won five pieces of silver flatware, and bought his first .45, a second hand accu-ri-zed Colt automatic.

As expected, the story of Stevan Richards shows his desire to help anyone interested in the shooting sports. After winning the Junior Virginia State Championship, Annandale High School awarded Stevan a varsity letter for pistol shooting—perhaps the only time a high school in the U.S. has done this! His letter created a great deal of interest in shooting at the school, and Stevan asked the principal if he could form a rifle team, knowing full well that a pistol team was out of the question. Stevan became Coach and Manager of the school rifle team.

During the winter of 1962, Stevan practiced intently for the 1963 National Matches, becoming interested in free pistol shooting. With the help of his grandmother, Stevan bought a Hammerli from Gil Hebard at the 1963 NRA convention.

During the winter of '62, Stevan became interested in joining the Potomac Pistol Club, headed by a retired Air Force General. At the beginning, the team members were reluctant to accept a 16 year old boy



in the club—they finally agreed, however, and soon Stevan was elected as secretary—and was the club's leading shooter!

We asked Stevan a few questions that we thought might interest you. Here are his answers:

Q. Is anyone else in your family interested in shooting?

A. Nobody in my family is a gun hug. However, both my parents were born and brought up in northern Maine, and have enjoyed hunting all their lives. They both taught me to have a healthy respect for all firearms. My dad enjoys pistol shooting, but not competitively.

Q. Why pistol, rather than rifle or shotgun?

A. I believe that pistol shooting offers far more of a challenge than either rifle or shot-

gun. I think that a pistol shooter must have a higher level of concentration, and when a good score is fired, he did it without the aid of a sling, glove, rest, etc.

Q. Who coached or tutored you?

A. My preliminary coaching came from Major Dick Bonney and his wife, Joy, at the Small Arms of the World indoor range at Annandale. My advanced coaching came from many Marine Corp shooters; principally Sgt. Larry Hauseman, W. O. Eubank, Capt. McMillan, Capt. Shank, Capt. Getchell, and Sgts. Bob Hayes and T. O. Smith. I think the one person who influenced me most is a non-shooter, Marine Cpl. Donald E. McIntyre. However, everyone connected with the shooting game has gone out of their way to help me develop and maintain my level of pistol proficiency.

Q. What do your folks say about this?

A. My parents are behind me 100 per cent, fully realizing that through pistol shooting I am developing my self-confidence and self-discipline.

Q. What awards have you won?

A. Since July 1962 I have won: All 16 National Junior Outdoor Pistol Records; the Virginia State Junior Pistol Championship; open awards at Park Police, Washington, D.C., and Quantico. All together I have won more than 57 trophies.

More recently, Steve has become interested and proficient in International Pistol Shooting and hopes to make one of the International squads in the next couple of years. He is now a second quarter freshman at the Ohio State University, is a member of the varsity pistol team and the Army R.O.T.C. pistol team. Says Steve: "I am having a rather difficult time making the conversion from strictly outdoor firing to all indoor shooting. My average has dropped from 290 outdoors to 283 indoors. This past summer I fired in the three NRA international outdoor postal matches (free pistol, rapid free pistol, and center fire pistol) and did rather well." His father was transferred to France late last year, and Steve now hopes to spend the next two summers at an international shooting school in Germany.

Steve's most burning ambition? Qualify as "Distinguished" and make the exclusive 2600 club—before he becomes 20! I have no doubt that he'll make both, that Stevan Bishop Richards will, one of these days, become another United States Pistol Champion!

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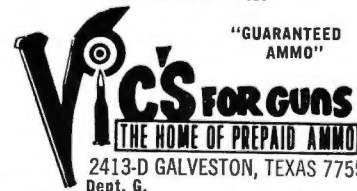
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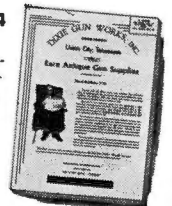
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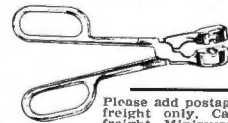
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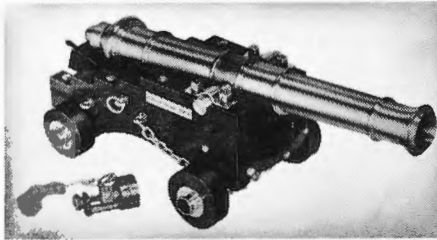
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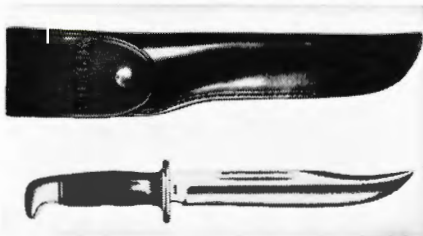
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M1 CARBINE OWNERS will welcome the new receiver sight made by Williams Gun Sight Co., Dept. G-3, 7300 Lapeer Rd., Davison, Mich. The sight slides into rear sight dovetail; no drilling or tapping is required. The Williams Guide Receiver Sight, M1-CAR, sells for \$7.00, ready to install.

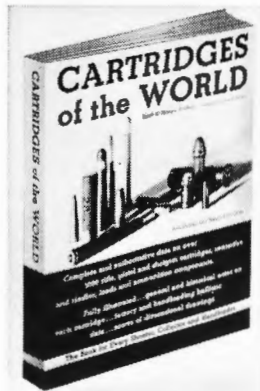


AUTHENTIC MINIATURE CANNONS are perfect for decorative use in home, club, or business. Made of selected walnut and naval bronze, they duplicate the 1798 to 1812 cannons used on Old Ironsides. Unique firing mechanism permits safe firing of 10 gauge blanks. Two models are available, starting at \$250.00. Full information from Admiralty Cannon Co., Dept. G-3, 125 Halstead Ave., Mamaroneck, N.Y.



PISTOL TYPE HOLSTER for Buck Knives, gives a snug, deep seat fit which permits the entire blade and half of the handle to extend into the sheath, thus preventing the knife from falling out and getting lost. Each of the nine knives in the famous Buck line is supplied with the new holster at no extra charge; purchased separately, holsters sell for \$4. Full information from Buck Knives, Dept. G-3, 6588 Federal Blvd., San Diego, Calif.

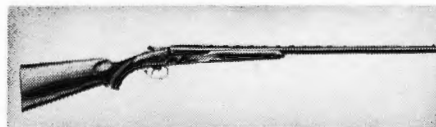
LIGHTWEIGHT COLD WEATHER MASK takes the sting out of winter outdoor sports by keeping the nose and mouth warm, and by warming the inhaled air to room temperature. The mask is made from a unique non-woven fabric which enables the wearer to provide his own "air warming and humidifying system." The mask is available in adult and children's sizes, and sells for \$1.98, at your local dealer. Made by 3M Company.



JUST PUBLISHED! "Cartridges of the World" by Frank C. Barnes, and edited by John T. Amber. This book fills the great need for a single source of information on cartridges—new and old, commercial and wildcat, U.S., and foreign. The data on each cartridge include date of manufacture, ballistics, loading data, dimensional data, etc. The book is profusely illustrated with drawings and photographs. Priced at \$5.95 from your dealer, or direct from Gun Digest Association, Dept. G-3, 4540 W. Madison St., Chicago 24, Illinois.



RONNING BOOT DRYER is small, efficient heating unit that can be inserted into boots or shoes to dry them out without harm to the leather, and without shrinking or stiffening. Made of lightweight aluminum, the Ronning Boot Dryer operates on 110 volt AC current; available in adult and children's size at \$8.00 and \$7.50 respectively. From Baekgaard and Butler, 1939 Waukegan Rd., Dept. G-3, Glenview, Ill.



FIREARMS INTERNATIONAL, 4837 Kerby Hill Rd., Washington 22, D.C., now has available the Matador II. This double barrel shotgun is a vastly improved version of the original Matador, with ventilated rib, single selective trigger, select walnut stock and fore-end, and a new stock mounting system. Available in 12 or 20 gauge, the Matador II sells for \$210.00, and can be seen at your dealer now.



POCKET SIZE instrument measures distances from 40 to 500 feet. The "Range-Finder" is made of durable plastic, and is simple to use. The distances are read directly off a calibrated scale, using a six foot reference height. Priced at \$2.98, the Range-Finder is made by Vexilar Engineering Co., Dept. G-3, Box 6286, Minneapolis, Minn.



THE GAL IN YOUR LIFE will appreciate this warm, comfortable jacket, made of light-weight 27 ounce pure virgin wool Hudson's Bay blanket fabric. Features fashionable collarless neckline, full zippered front, wool cuffs. White fabric is accented with stripes of green, red, yellow and black. Sizes small, medium or large. Price, \$24.95 plus 75c postage. From Alaska Sleeping Bag Co., Dept. G-3, 334 N.W. 11th Ave., Portland, Oregon.



PICK-UP CAMPERS can now be loaded and unloaded with ease to free the pick-up for other uses. Camper Jacks, made by Mail Order Mfg. Co., Dept. G-3, Box 851, Spokane, Wash., are guaranteed to load or unload any camper in four minutes. Set of four Camper Jacks is priced at \$57.45, FOB Spokane. Complete information on request.

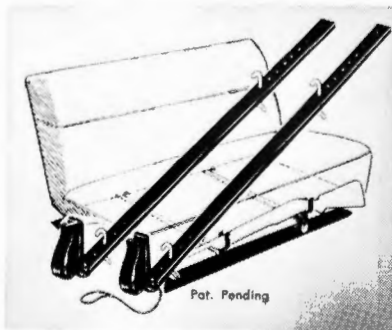
WITH Guns



IF YOU ARE PLANNING a trip to Canada; for a vacation, fishing, hunting, or winter sports, a new book, called "Canada Vacation Manual," can save you time, trouble, and money. To list even a small part of the contents of this big, 300 page book here is impossible. We'll simply say that it covers any travel or vacation information you'll need. Resorts are listed, air, rail, and bus fares are given, and package vacations are offered. You can get your copy by sending \$3.00 to: Canadian Outdoor Vacations Ltd., Dept. G-3, Box 1186, Winnipeg, Manitoba, Canada.



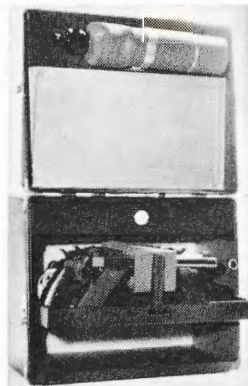
GUN CARE PRODUCTS under the G-66 brand have found wide acceptance by gun owners. The newest item from the Jet-Aer Corp., Dept. G-3, 165 Third Ave., Paterson, N.J., is G-66 Gun Blue Paste. Packaged in a convenient squeeze tube, this new formula gun blue produces a rich, dark, even blue. Priced at \$1.39 per tube, at your dealer.



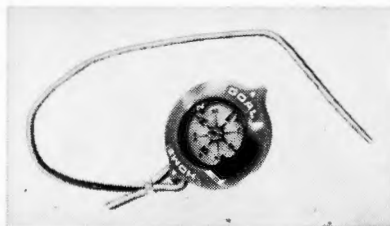
GUN RACK FOR AUTOS clamps under seat to mount the rifle or shotgun just under the front of the seat. Plastic coating protects finish and holds firmly. Locking cable provided for padlock. Priced at \$5.95 from San Angelo Die Casting Co., Dept. G-3, P.O. Box 984, San Angelo, Texas, or at your local dealer.



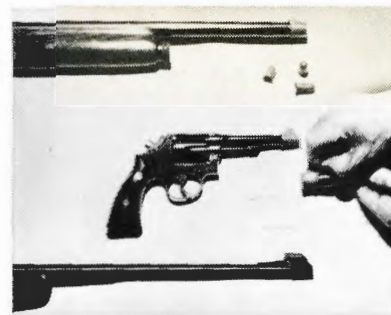
TRU-VU SPOTTING SCOPE BRACKET holds any size spotting scope securely while in pistol case. New adjustable clamp conforms readily to the contour of any scope. Rubber strips prevent metal-to-metal contact. Bracket attaches to underside of pistol case lid with four stainless steel screws. Priced at \$6.50; choice of gold, silver, or black. From your dealer, or Pachmayr Gun Works, Dept. G3, 1220 S. Grand Ave., Los Angeles, Calif.



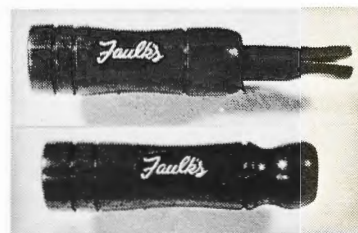
THE GENERAL is a deluxe handgun carrying case that features all wood and veneer construction, vinyl plastic covering, removable gun tray, and reinforced lid for scope mount bracket. The four gun case is priced at \$29.95 and the five gun model is priced at \$32.95, at your dealer or direct from General Luggage Co., Box 16, P.P. Station, Dept. G-3, Worcester, Mass.



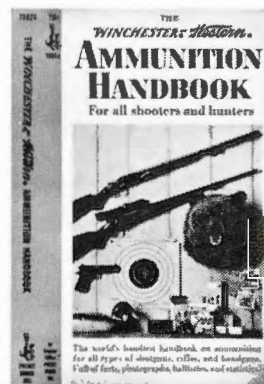
"HOME FINDER" compass is simple to use, and will help prevent you or your children from getting lost. Unique memory dial eliminates forgetfulness and shows you the way into and out of the woods. Perfect for hunters, hikers, and all outdoorsmen. The perfect gift. Priced at only \$2.98 from Jeret Co., Dept. G-3, Box 1357, Sarasota, Florida



TO KEEP THE BORE of your favorite rifle, shotgun, or handgun free of dirt, snow, or moisture, try "Muzzle-Caps." These latex muzzle covers stretch over any size muzzle; you can fire right through them without fear of blow-back or barrel damage. A package of 24 caps sells for \$1.00, from Woodford-Elrad Co., Dept. G-3, 27890 Chagrin Blvd., Cleveland, Ohio.



THOSE WHO PREFER the fine tones of a real wood call for ducks will demand the same for crows and predators. Faulk's Game Calls, Dept. G-3, 616 18th St., Lake Charles, La., makes their crow call (top) with fine walnut barrel and cherry tips, priced at \$2.50. The Faulk predator call has a walnut barrel and precision metal reed, and is priced at \$2.95. These calls are hand tuned, and guaranteed to have a perfect tone.



POCKET BOOKS, INC. have recently published "The Winchester-Western Ammunition Handbook." This 185 page pocket-sized manual has chapters on all types of ammunition, and comprehensive ballistics charts. Most sporting goods stores, book stores, and newsstands now have this valuable book, priced at only 75c per copy.

FOR THE FIRST TIME, "Herco" smokeless powder is available in 11 ounce canisters. In the past, only four and 15 pound kegs were marketed. Herco is a coarse grained shotgun powder for use in heavy loads in all shotgun gauges. Your dealer will have this new Herco package soon.

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Panel of Experts

Because of the heavy influx of questions, it has become necessary to limit the number of questions submitted in one letter to two. Your questions must be submitted on separate sheets of paper, must carry full name and address, and your Shooters Club of America membership number. If you are not a member of the Shooters Club of America, send a dollar bill with each question. Questions lacking either number or money cannot be answered. If you want a personal answer, enclose a stamped, self-addressed envelope for each question.

both the case and barrel.

I use 2400 for feeding my 45-70's. It burns out and gives fine control and accuracy.

For your 300 grain cast bullet I'd say start with 26 grains of 2400. You will have trouble with the original sights as your light bullet with a smokeless load will travel flatter.—C.B.

Stock Bending

I have a 20 gauge Winchester Model 50 automatic shotgun with regular stock specifications. I would like to know whether it is possible or practicable to lower the drop in the stock by approximately one inch by bending down the tang so as to effect the increased drop at the heel. It is noticed that this may be done with pump guns such as the Model 12 but it is not known whether an automatic would operate satisfactorily with the stock tilted at that increased angle. A neck difficulty makes it difficult to handle a straighter stock.

Edwin McKee,
Moultrie, Georgia

I am afraid that the only stock alteration you can have made on the Winchester Model 50 is a lowering of the comb of the stock. A custom stock, though expensive, would be the first answer if you want to stick to the Model 50. Your other choice is of course going to either a double or a pump where the stock changes would not hamper the performance of the action.—P.T.H.

.30-30 Loads

Could you give me some information on the improved .30-30 series loadings.

I had a Savage 99 in .30-30 in which the barrel was shot smooth. I had P.O. Ackley bore and rifle to 8 mm .30-30 Improved and would like to obtain some place to start. I chose 8 mm due to the various bullets available.

Dwight W. Stewart
Canoga Park, Calif.

Your Savage M99 should be excellent chambered for 8mm .30-30 Improved. A good starting load would be a 150 gr. Speer bullet backed with 35.0 grs. IMR-3031 and CCI 250 Magnum primers. Fire several rounds for group, and you can probably work up one, two, or three grains, and of course stop and back off at any indications of pressure.

By the time an original .30-30 barrel has been "shot smooth" and rebored, the rifle (Continued on page 61)

Husqvarna Revolver

I have a revolver which I would like you to identify. It is a double action, 6-shot, serial No. 7928. The barrel is marked "Husqvarna," and "PTB." It fires cartridges marked 7.5 mm Nagant. Could you tell me where it came from; its value; if I can obtain more ammo; how to go about reloading these cartridges; if any standard U.S. manufactured ammo can be fired safely in it.

Tom Humphrey
Columbia, Tenn.

Your Husqvarna revolver was most likely made for the Norwegian armed forces; quite a few were imported into this country about four years ago, and sold as military surplus. Current price on the second-hand market runs about \$8-\$10.

The cartridge is not commercially manufactured in this country and I would not advise your shooting substitute calibers. As far as reloading goes, you might consider that your investment in tools might be more satisfying were you to choose a more widely available caliber.—S.B.

Loads For A .45-70

I have an 1873 Springfield rifle, caliber .45-70. I would like to know if I can use Du Pont 4831 powder to reload shells for this and how much I should use. I will be using a 300 gr. cast bullet.

Donald R. Lacey
Cactus, Texas

I have never used 4831 in the 45-70. I can tell you that you should avoid many coarse grained smokeless powders—particularly considering the light bullet you are using—because those coarse powders will not burn. You'll have parched grains left in the

NORTHWEST TERRITORIES

(Continued from page 32)

which will permit the taking of one each of the big game trophies. The outfitters fees will be about \$100 per day. For example, Burrell is quoting \$2000 for a 21 day hunt, Brewster anticipates a rate of \$2000 for a two week trip.

Since the area is unexplored, hunting parties will have to rely on aircraft exclusively. In future years, when base camps are established, horses may be brought in.

The Game Department of the Territories intends to permit two additional outfitters to operate in the MacKenzies. Arrangements for this year's hunt should be made almost immediately if you intend to be a charter member of the "MacKenzies' Hunting Association," which promises to be a fairly exclusive "club." Export permits for your trophies are free, and your guide will care for them in the field, arrange forwarding, which you pay, to a taxidermist.

Exact location of the hunting camps is difficult to pinpoint. The two Alberta outfitters have selected areas north and west of Norman Wells, about a hundred air miles.

You will be expected to bring your own bedroll, which is to say a good down sleeping bag. An air mattress would be a desirable accessory. You will want your camera and lots of color film. Your guide will carry binoculars and a spotting scope for assessing trophies, but you should bring your binocs, too. Four eyes are better than two.

A list of the best calibers for hunting the MacKenzies would read something like this, in order of my preference. First choice would be the 7 mm Remington Magnum or the 7 mm Weatherby Magnum. Second would be a .300 Weatherby, .300 Winchester, or .308 Norma Magnum. Third choice would be a .284 Winchester, .280 Remington, or .270. A .338 Winchester Magnum or .375 H & H would certainly fill the bill, providing the hunter is not recoil sensitive.

The rifle should be equipped with a scope, either a 4X or a variable. It should have a sling for carrying, and the Whelen type would be best, as it can be used for additional support on long shots.

Your ammunition should have a long spitzer bullet of good sectional density. The advantages of a high ballistic coefficient in flat trajectory and high retained energy are apparent to anyone consulting a set of ballistic tables. Not so apparent, but just as important when shooting along a wind-swept ridge, is reduced wind drift that is directly related to bullet form. Being a handloader, I have been using Nosler bullets with good results, mostly because I like the theory behind the bullet. In actual practice, I have found that both Sierra and Hornady bullets perform well on game, too.

If you fly, take your cased rifle into the cabin of the plane with you—even if some airlines insist that the bolt be removed and packed in your luggage. In deference to the limited space available on the charter aircraft you will be using from Norman Wells, you may be more popular if you take only one rifle, but an extra scope, previously sighted in for the rifle, is good insurance. It goes without saying that you will have

checked all the screws for tightness and carefully sighted it in before you leave home. I always include two screwdrivers to fit the action and mount screws, a few targets, and an extra extractor.

Footgear is important to the success and enjoyment of the hunt. Two pairs of boots should be taken. A pair of light, sturdy, leather boots with 8" tops and rubber composition climbing soles, and for wet weather, "shoe pacs" with 10" to 12" leather tops and rubber bottoms, worn with felt insoles, are the ticket. Boots must be well-broken in and should be waterproofed.

The outfitters will do their utmost, but hunting in the Northwest Territories is rugged and in order to enjoy the hunt, you should be in the best possible physical shape. The Territories are probably the last big game frontiers and hunting success is practically assured.

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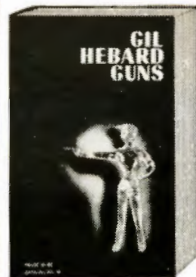


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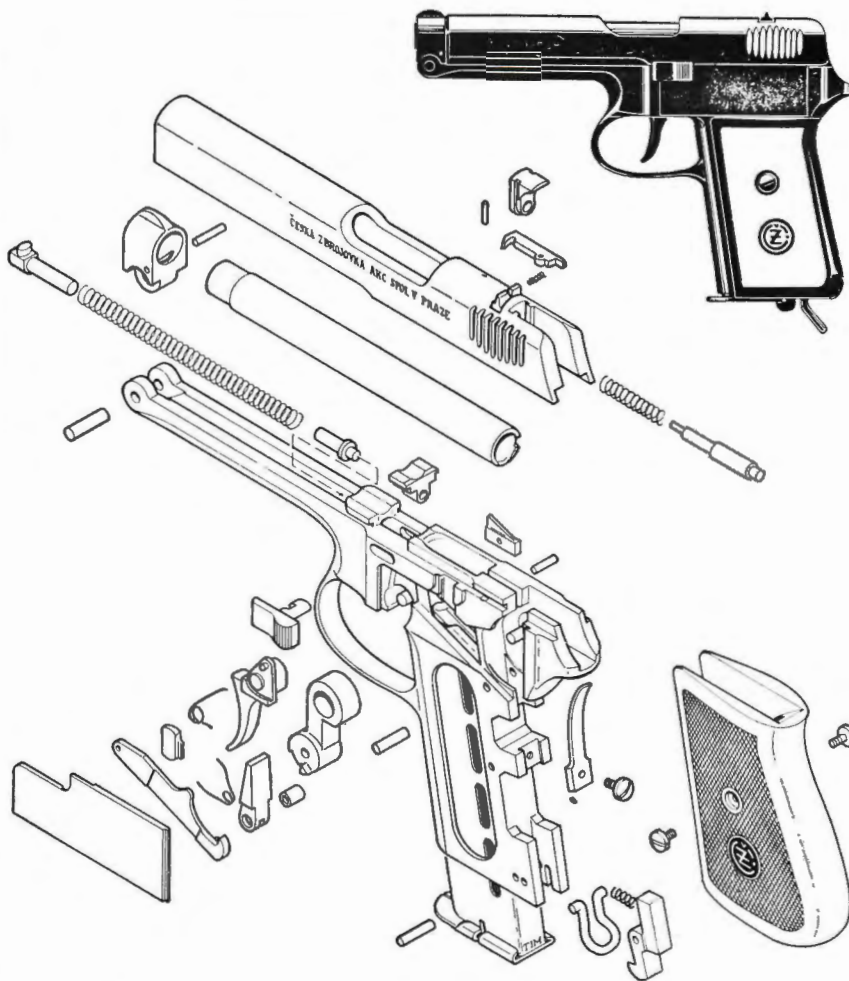
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**AN
INSIDE LOOK**

AT THE CZECH M/38

By SHELLEY BRAVERMAN



IN 1938, the Ceska Zbrojovka organization introduced a modernized version of a very early type of self-loading pistol; solely "double-action," discharge is accomplished by pulling the trigger to cycle the hammer through compression and release. The slide functions conventionally for loading and ejection, but the hammer does not remain cocked; it returns to the "down" position after each discharge, thus eliminating any need for separate safeties.

In addition to safety, ease of maintenance was stressed in the design. A latch makes the barrel and breech accessible for field cleaning; pressed forward, it allows the slide and barrel to rotate on an axle at the muzzle. Removal of the grip allows a cover plate to be slid down and off, thus exposing the lockwork.

As generally encountered in the U. S., the gun is chambered for the .380 ACP cartridge. In Europe, similar

ammunition is known as 9 m/m Kurz (short), but reports persist that certain makes differ sufficiently in rim diameter to cause feeding difficulties.

In addition to the model illustrated, variants exist with internal differences. One form includes a type of "locking or delay" mechanism in which the barrel recoils a short distance and turns out of engagement with the slide. Another is reported to include a sear which holds the hammer at full-cock. Yet another is illustrated in W. H. B. Smith's "Pistols and Revolvers;" this one shows a hammer safety! A possible explanation is that arbitrary military requirements forced modifications upon an already commercial model.

The somewhat unusual magazine capacity (nine cartridges) results in a total of ten rounds in a fully loaded gun. Examined specimens show rifling to be 6 grooves, right hand, about 1 turn in 10 inches.

(Continued from page 58)

may not be in good enough condition to take maximum loads that would be satisfactory in a new rebored gun of similar type. You are wise to request a starting load rather than a maximum load.—K.B.

Valuable Trio

Your offhand estimate of the present value of the following listed rifles would be appreciated.

A Nichols & Lefever double barreled American made rifle. Rifle barrels are .40 caliber, takes .40-72 and .405 cartridges. Barrels are 26 1/8" long, deep right hand rifling, no signs of wear. Two notches in rear sight to correspond with two blade front sights, one on each barrel. Words Nichols & Lefever, Syracuse, N.Y. on top of barrels, same name, less city, on both locks. Outside hammers. Doll head lock, number 948 on underbarrel lug, number 5948 on trigger guard at rear of pistol grip. First five inches of barrels are half octagon. Push catch to open action.

With this rifle are 12 gauge shotgun barrels, somewhat pitted inside, well worn Damascus finish outside, length 30". Separate fore-end for rifle and shotgun barrels. Original stock was French walnut, broken at grip and patched with side plates. I replaced it with a very high quality burl walnut stock.

A Model 1884 45/70 Springfield, Buffington rear sight. Rifle is new and unfired.

A .577 Snider Enfield, also new and unfired.

George T. Shank
Menlo Park, Calif.

To evaluate your double rifle is rough! American doubles are rare but to put a \$ price on them is all but impossible. On top of this you may have a one-of-a-kind item.

I've handled several unique arms and have found that the \$ value cannot be put as high as the average collector would think. \$150 would be too low, \$250 would seem about right. Anything over that and the buyers come few and far between.

Your as new 1884 Springfield is worth \$80.00, and your .577 Snider Enfield is worth about half of that.

I hope this is of some help.—C.B.

Manton Double

I have recently acquired a Joseph Manton double barrel percussion shotgun. I am interested in selling the gun but haven't been in the collecting game long enough to know the actual value of the piece. Therefore I would like to know what you think the piece is worth as far as a collector is concerned. The piece is in "good" condition to say the least. The barrel is not pitted at all and only has a very few minor scratches. The stock is in almost as good shape. With the exception of the missing ram-rod, the piece appears to be in almost original condition. I would greatly appreciate any information you could give me about the gun, especially how to go about selling it.

Robert P. Lloyd
Chapel Hill, N.C.

Your percussion shotgun with the Joseph Manton name was made with Belgian barrels. Joseph Manton was a very famous gunsmith and arms have been found that bear his



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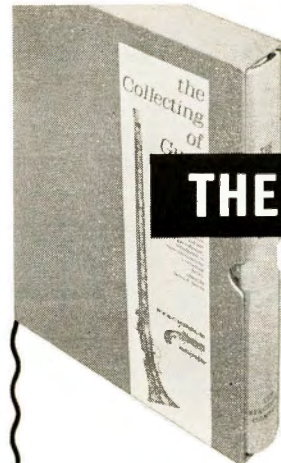
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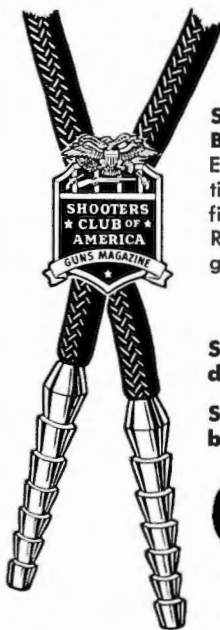
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name but were not a product of his shop. If your piece is genuinely a Joseph Man-ton product it was undoubtedly made late in his career. He died on June 29th, 1835.

There is not much interest in shotguns among American collectors and percussion shotguns are only slightly better. Your piece is probably worth about \$40. to \$50.—C.B.

Brno Mauser

I have several questions about a Brno 8 mm Mauser I recently purchased.

First, the bolt handle is straight out; I was told that most of the Czechoslovakian Mausers had turned down bolts, though some did have straight bolts. Is this correct?

The face of the bolt is slightly pitted in a perfect circle around the firing pin hole. I suppose this is an indication of corrosive ammunition. Will this pitting affect the gun in any way? Is this rifle suitable for conversion as is, or should I replace the bolt with a new one? Can I interchange the bolt with a new factory one like the FN, or will I have to correct for headspace in any case? If they are interchangeable, can I use the bolt sleeve and cocking indicator from the Brno?

I would like to convert this gun to another caliber, but the thought of replacing the barrel doesn't appeal to me. How about chambering it for the .308 or .358 Norma Mag. and necking up or down to .323. Is this idea plausible?

Carl Baylin
Ottawa, Canada

You are right about the bolts of the Brno Mauser, some did have straight handles. Marks on the bolt face are due to corrosive ammo and pitting of bolt face won't affect the gun. I don't know what kind of shooting you do, but the caliber is suitable as is. You can get a new bolt, but must ascertain that headspace is OK. Bolt sleeve and cocking indicators are interchangeable. The gun can be rechambered to .308 or .358 Norma Mag., and of course a wildcat .323. Do however watch those 8 mm bullets—some mike .318, others .323. A reliable gunsmith is your best bet for the job.—P.T.H.

Winchester Model 70

In GUNS, December 1964 issue, you finish up your "Handloading Bench" column with some remarks about the Winchester M70. I am sorry I cannot go along with what you say. The new M70 is probably strong . . . but it is not "desirable." It is cheap and shoddy—a shortcut special with no finish to speak about, with die cast brittle parts. The old M70 had signs of a little love and pride given in its manufacture, take a look at one.

F. S. Hamilton
Reno, Nevada

I believe you and I both have a point or two about the M70 Winchester, new model. Granted, manufacturing costs have been reduced by using some non-steel parts that do not take any strain in firing. The new action is stronger, and a feature I like is that it eliminates the old coned barrel that exposed brass near the vital head. This permitted an internal case defect in that area to blow out the brass, or result in a complete

head separation that could wreck the rifle. The new bolt completely encloses the case.

No doubt manufacturing costs have been reduced with the new bolt, but the new one is just as strong or stronger, and the bolt cap prevents brass and gas under high pressure and temperature from blowing right in your right eye if a primer blows or is punctured. This is another desirable feature. The swaged barrel is good, and all we have fired has good accuracy. The large barrel channel in the stock for a floating barrel is not beautiful, but the trend is to a floating barrel such as bench resters use for the world's tightest groups. It can be glass bedded, if desired.

As I wrote in my article, a little higher grade stock would bring a higher price, and the action could be bedded a bit better. Still, the old model stocks were not much to brag about, and many precision shooters had them tuned up or replaced with a custom stock. A fine custom quality rifle would be more desirable, but the cost is two or three times as much as the new M70. We have always had a few people who would not accept production guns and used custom rifles. Unfortunately, manufacturing costs have greatly increased in this country in recent years.—K.B.

Remington Rolling Blocks

I have two Remington Rolling Block rifles, one 11 mm Egyptian, and one Spanish .43 caliber. Can these be safely converted to modern ammo which is available? If so, what are the best conversions for each and a fair price for the job? Also, do you know a reliable gunsmith who does this work?

S. E. Roberts
Bellevue, Nebraska

Rechambering to .45-70 is about the most feasible caliber since other calibers create higher pressures which your guns might not be able to withstand. The slow hammer fall of these guns make them, in general, not ideally suitable for conversions, especially to the hotter calibers.

It is difficult to arrive at a price for conversion work, since it depends entirely on the amount of time the gunsmith must spend on the job. Check with your local sporting goods dealer for a gunsmith in your locality.—P.T.H.

Rolling Block Conversion

On page 15 of the February issue of GUNS it states that the Remington rolling block, in .43 caliber, is well worth changing to the .44 Magnum. However, on page 63, you tell a reader to keep his caliber as is. Is this not something of a contradiction? What can this action be converted to, other than the .44?

Is it safe to shoot .32-20 High Power cartridges in the Winchester High Wall? Also, what would be a good cartridge to convert the High Wall to as far as a varmint rifle is concerned?

Eldon G. Rapp
Overland Park, Kansas

The Remington rolling block rifle in .43 Egyptian cannot be easily used "as is" because the .43 Egyptian ammo is mighty hard to find. On the other hand the .43 Spanish ammo is much easier to find and rolling block rifles in the Spanish .43 cartridge can be used as is.

A good sound Remington rolling block can be converted to about any of the cartridges used in the 19th century—that is, normal rifle and pistol cartridges.

The Winchester High Wall action will easily handle .32-20 high velocity rounds.

I would suggest converting a High Wall to use a moderate load in the .22-250 varmint cartridge.—G.B.

Magnum Loads

I would appreciate loading data for a .357 S&W Combat Magnum, 4" bbl., using 146 gr. Speer full jacket bullets, Norma brass, and 2400 powder. Which makes the best bullet, half or full jacket; for the .357 and .41 Magnum?

I recently swapped my .44 Mag. for a .41 Mag., and then I read where your comments on the .41 is not a "rave" on the caliber, etc. What is the best bullet weight (and type) for the .41 Mag. using 2400 powder and CCI primers?

Around these parts it cost \$40 to swap from gun to gun in Maggies.

Dr. O. L. Braun
Peru, Indiana

My favorite maximum .357 load is Speer's 146 gr. long jacket H.P. with 16.5 gr. 2400 and CCI 550 Magnums. In a 4" tube it starts at 1302 fps, while the R-P lead bullet load starts at 1180 fps. One grain less powder is faster and more accurate than the factory load.

We settled on this bullet as the jacket covers the bearing surface to eliminate leading. The jacket crimp aids the bullet in entering and leaving the bore in better alignment for much better accuracy, and with the convex base it eliminates slugging, or the possibility of shedding jacket walls in the bore while the jacket base and core are shot out of the barrel. Norma .357 brass has about the same capacity as U.S. makes. It's good brass.

A .41 Magnum is a good cartridge. I don't think it fills any need, especially for reloaders; it won't do anything a .357 or .44 can't do better. It will require many thousands of test rounds over the years to develop loads as highly developed as .357 and .44 loads.

The best current cast bullet is my copy of the 1908 C.E. Heath .44, a 210 gr. Hensley & Gibbs. It duplicates Hi-V factory loads with 20.5 gr. 2400 and CCI 350 Magnums, at 1394 fps in a 6" tube with VS 67 fps. I suggest one grain less powder. A C-H 175 gr. half-jacket with 21.5 gr. 2400 starts at 1521 fps with VS only 36 fps, and mild recoil.

Swapping Magnums at \$40 for a different caliber is a bargain. Where else can one buy so much fun for 5 times that figure?—K.B.

Headspace Problems

I have a Model 95 Mauser which is shooting 1 1/4" groups at 100 yards. All things considered, I like this gun very much; it's lightweight, its accuracy, and lack of recoil. My best results I get with 47 gr. 4350 and a 154 gr. Horandy RN bullet. The person who reloads for me tells me that from looking at the fired cases (two are enclosed) he can tell that the gun has excessive headspace. Can you tell from examining these cases that the gun has excessive headspace? Is this gun safe to shoot?

I am told that M95 receivers are soft and many gunsmiths refuse to separate the barrel

and receiver. Would about .004 or .005 of chrome plating on the face of the bolt correct this?

James O. Tule Jr.
Easton, Penna.

The once-fired cases indicate your 7 mm rifle is unserviceable. I urge you not to fire it, under any conditions. Headspace is excessive. Cases are expanded near the vital head, due to an oversize chamber, and would not even enter our Forster Case Length & Headspace Gauge. They are stretched beyond normal chamber length.

Any of these conditions can wreck a rifle. Plating the bolt face will not correct the trouble. If the rifle has sentimental value I advise welding the breech so it can not be fired by some uninformed, innocent person. The 95 action develops headspace rapidly, and we don't use them.—K.B.

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WATER DOG

By Richard A. Wolters
(E. P. Dutton & Co., Inc., New York, N.Y., 1964. \$5.95)

Dick Wolters is the author of one of my favorite gun dog training books—"Gun Dog." Dick has been training dogs for a long time, and his earlier book caused a lot of comment among trainers, field trial judges, and even the uninitiated took him to task for some of his ideas. The fact remains that the dogs Dick trained work like charms and few of his dogs have ever been faulted. We now have a new book, one that is certain to create even more comment, and it seems likely that a lot of hunters and dog trainers will scream with dismay. Let them—you may want to argue with Dick, but as the old saying goes, you can't argue with success and that is just what Dick had with his "new" method. One of his gems is the categorical statement that training should start when your prospective duck dog reaches the ripe old age of 49 days. Dogs are a lot smarter than a lot of people give them credit for, and there is really nothing that says that you should not start your retriever at this age—might even start a day earlier if you feel so inclined.

Another new idea of Wolters' is the use of whistle commands. I have not tried them since I have no new pup to train at the present, but they sound reasonable enough and again, why argue with success? Planning to train your own water dog? Then get "Water Dog." You'll like it. I did, and when it comes to dog training, I am a hard-nosed super-critic.—R.A.S.

BOWHUNTING FOR DEER

By H. R. Wambold
(The Stackpole Co., Harrisburg, Pa., 1964. \$5.95)

No bowhunter himself, this reviewer cannot evaluate the parts of this book relating to bows, their selection and use, etc. But there is a great deal of good hunting technique and good woodsmanship here that could benefit gun hunters as well as bowmen. The writer's enthusiasm for his sport, plus the longer seasons offered, might even convert some riflemen!—E.B.M.

THE ORIGINAL MAUSER MAGAZINE SPORTING RIFLES

(Reprint of the original English translation
Mauser Manual. Stoen Arms Corp.,
S. Hackensack, N.J., 1964. \$1.00)

Despite the fact that a number of rifle actions have come into being since Peter Paul Mauser created the first rifle that carried his name, the Mauser action still has a great many staunch supporters. I noted several interesting facts in this catalog. One of them is the fact that the original 8mm Mauser had a bore diameter of .315 rather

than the .323 we now consider standard. However, a number of 8mm Mauser rifles, especially some of the custom guns built in Germany after WWI, have a bore diameter of .318. This is just one piece of information you glean from this booklet and for that reason I believe that this reprint is well worth having.—R.A.S.

FORT HALL By Frank C. Robertson
(Hastings House, N.Y., 1963. \$5.95)

In writing of his newly built trading fort, at the meeting place of the Snake and Polneuf Rivers in what is now Idaho, Nathaniel Wyeth said; "Its bastions stand a terror to the sulking Indians and a beacon of safety to the fugitive hunter. It is manned by 12 men and has constantly loaded in its bastions 100 guns and rifles." True, in its beginnings Fort Hall was all of these things, but it was much more. It was the gateway to the great Northwest, and the western outpost of the fur trading firm headed by Wyeth, Hall Kelly and Benjamin Bonneville, whose battle with, and ultimate victory over, the powerful Hudson Bay Company is stirringly told in this book. Frank Robertson was born and raised in Fort Hall country, and his deep reverence for its history stands out in his writing to make this book one of great interest, even to those of us who may never venture there.—J.R.

HUNTING SECRETS OF THE EXPERTS

Edited by Vlad Evanoff
(Doubleday & Co., New York, N.Y., 1964. \$4.95)

This is a book which, when properly understood, is likely to make a better hunter out of you. The 20 contributors are tops in their respective fields, and you can't go wrong by following their advice. At this price, the book is a good investment for anyone who hunts.—R.A.S.



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(Continued from page 33)

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170 grain loads do an excellent job on deer, and in my opinion anyone who cannot kill a deer with a .30-30 simply cannot shoot. When deer are wounded and lost with this cartridge, it is the hunter and not the rifle. For moose, it is slightly too light, though with a perfectly placed shot it will kill moose just as dead as any rifle on the market, but it does lack penetration and power in case you happen to hit some of the big muscles—the moose is a large, powerful animal and takes a lot of killing.


Incidentally we have been working on an improved .30-30, in which we have been able to increase the muzzle velocity better than 400 fps with 150 grain load over the factory loaded ammunition. This was developed in an early model 94, under 200,000 serial number, to make sure the loads were safe. Trajectory appears to be on a par with a .308. I am leaving in a few days to try the improved version on moose—if the weather and game are cooperative. Last year I used my old .30 Newton, killing two moose with it. Neither of them were one shot kills—but that is another story.

My wife and I spend from four to six weeks every fall, hunting, and testing various equipment, and are often surprised at what we can find out. During this time, temperature drops to 45° and sometimes 50° below. We have been in the bush at 30°

below, and have found that such items as the highly rated thermal underwear certainly have no place in the bush in cold weather when you are wearing wool clothing. It might be all right with nylon outerwear. We do not know, but wool outer clothing is necessary for still hunting, and thermal underwear will freeze you. You're better off with ordinary cotton underwear. We also find that those long, thin, turned-up toe, snowshoes are useless for hunting in the north. The snow hardly ever packs during hunting season, and narrow shoes do not have enough support. They will flip sideways and dump you in the snow if you step on a hidden root with either side of the shoe, and with the turned-up toe you have to use a much higher step.

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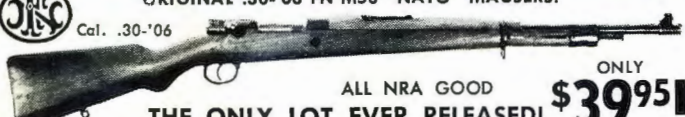
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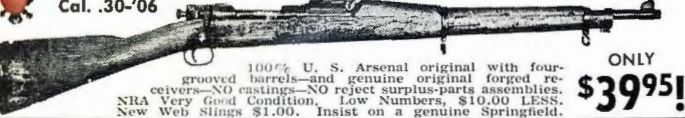
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 Cal. .30-'06



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Original, authentic Belgian Army M50 "NATO" Mausers in the greatest caliber of them all—30-'06. M98 Mausers specially produced by *Fabrique Nationale* during the 1950's for NATO use. All NRA GOOD condition—The only genuine NATO .30-'06 ever released! ALL with ORIGINAL 24" barrel—All milled parts and ALL matching numbers, even including their genuine walnut stocks. Replete WITH Belgian crests and NOT to be confused with any other South American variety with RE-created barrels or those with DE-created receivers.


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Genuine M98 Carbine with turned bolt handle and 18" barrel. NRA GOOD Condition. 8mm ammo only \$4.00 per 100.

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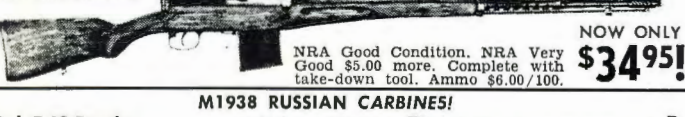
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 Cal. 8 MM



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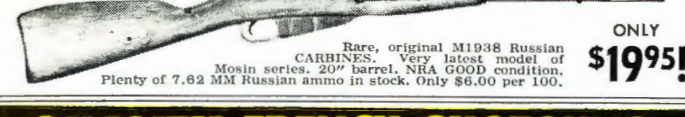
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6.5 Dutch (M.C.) (with one clip)	9MM Browning Long (M.C.)
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.....\$6.00	6.5 Italian Soft Point (20 rds.)
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7.62MM Russian (M.C.)\$5.00
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7.65MM Mauser (M.C.)\$3.50
.....\$4.00	7.65 Mauser Soft Point (20 rds.)
30-'06 Blanks\$3.50
.....\$4.00	308 Win. Soft Point (20 rds.)
30-40 Krag (M.C.)\$3.50
.....\$5.00	30-40 Krag Soft Point (20 rds.)
303 British Military\$4.50
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STAR MODEL B! BRAND NEW!
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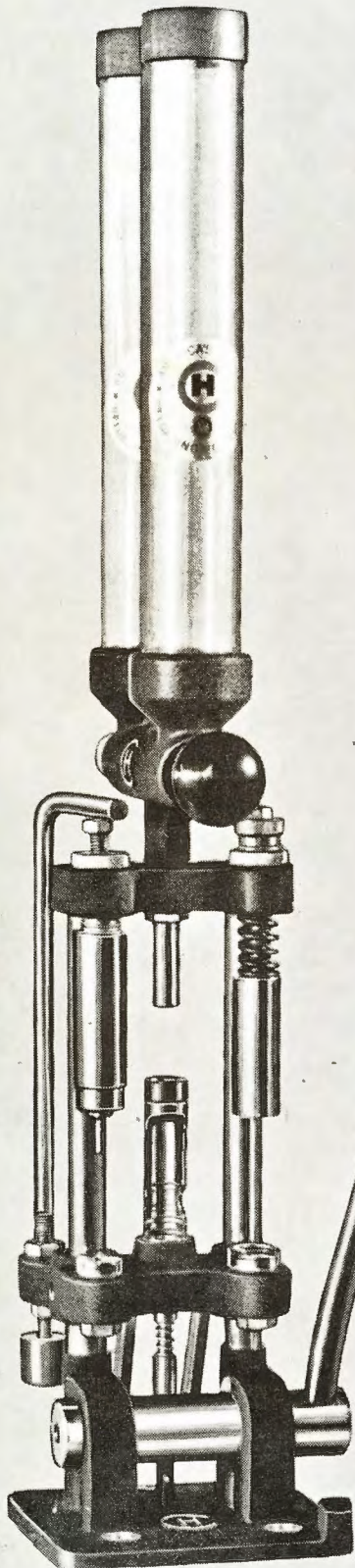
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