

DECEMBER 1958 50c

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Guns

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THE RIFLE
IN ATOMIC WAR



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Location—East of Point Barrow, Alaska
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 $23\frac{1}{2}$ "
(Fish & Wildlife Dept., Univ. of Alaska)
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By HOWARD C. SARVIS
Innovator of Trainfire

It seems that when I carry this gun, I see game. This is as childish as belief in the Easter Bunny but, more than once, after fruitless days with some other rifle, I have picked it up and that day scored. Gun men will recognize the Remington M722. They may not enthuse over the .300 Savage caliber, but I have found the loads are a pretty fair compromise of reachers—outers, brush cutters, and reliable expanders at both near and far ranges. Unglamorous, functional, it is a hard-used friend with many solid qualities, this companion of a hundred adventures on horse and afoot.

MY FAVORITE GUN



By ARTHUR C. JACKSON
U.S. Champion Rifleman
(Testing Hammerli free rifle at Melbourne Olympics)

Like many other competitive shooters, I do not have a single gun to call "my favorite," because the various courses of fire demand several types of arms. For the 50 meter International small bore events I use three Winchester M52s, each one slightly modified to best adapt it to standing, kneeling, and prone positions. I have them fitted with Douglas barrels, Thomas triggers. I also use Winchester for the 300 meter matches, the big-bore Model 70 stocked to my requirements. The Winchester is certainly my favorite—all of 'em.

TRIGGER TALK

PUTTING together a new issue of GUNS is always an adventure; an adventure complete with headaches, of course, but complete with rewards as well. The headaches? Well, which story should we run now, which later, in order to give this and later issues the balanced-diet content we strive for in the hope of pleasing as many of you as possible each month; how to illustrate the story to make it as attractive, as graphic as possible—and many others.

The rewards? Sometimes it's the possibly smug, possibly wrong, but nevertheless sincere feeling that "This is good." We feel that way when we give you a really new story, whether in the "how-to" field or in a new firearms development. We feel it when we can give you "a big name," as in the story by Colonel Whelen in the last issue. We feel it when you write us (as so many of you do so often) to say "Such-and-such a story (or issue) was fine." Thank you for those letters.

You write us too, some times, to say that you didn't like a story, or an issue. "Your last issue was a disappointment; nothing in it for me." Our only answer is, "There are dozens of special interests inside the overall field of guns and their uses. Some include many thousands of readers or potential readers; others have only a few enthusiasts. (There are some sixteen million hunters; perhaps only a few score cartridge collectors, just for example.) We try to touch all of those interested as often as possible; but we can't hit them all in each issue.

You write us some times, too, to tell us that we've blundered; that "nobody but an ignoramus could have made the error you printed." Usually, you're so right! Right not only in correcting the error but right also in saying that nobody but an ignoramus could have made it! Our editorial staff adds up *en toto* to a lot of years of gun experience, much of it pretty intensive, some of it highly specialized. But we don't know it all; nobody does. And most errors in print are errors of oversight rather than ignorance. Ben Franklin is said to have said, "No printed volume is complete till Error hath crept in and affixed to it his sly imprimature." We try to disprove Franklin, but his was a wisdom of much experience. Read proof time after time (as we do), stress accuracy however much you may, mistakes do happen. We make them. We make them less often, we do believe, than most others; but we're trying to do better.

This, we think, is a good issue. The story of "The Comeback of the Colt Rifle" is by our own Bill Edwards, the "man who wrote the book" about Colt ("The Story of Colt's Revolver," published by Stackpole, 1953) and is a terse, fact-packed resume of U. S. gun history. "The Man-Rifle Weapon in Atomic War" is a declaration by an authority of the rifle's place in modern war and what we are doing about it. Three stories ("Doves Are the Wingshot's Best Ego-Deflater," "It Ain't The Rifle, It's You," and "America's No. 2 Game Target") are for the hunters—shotgun, rifle, or both. Other stories and departments aim at other tastes.



THE COVER

In the lusty, lawless boomtowns of the West—on battlefields around the world—on countless target ranges, and as a weapon of law enforcement, Colt handguns have earned honor and acclaim. Today, Colt rifles are bidding for like honors in the world of sport, as Fred Roff recreates the Sam Colt dream.

Guns

FINEST IN THE FIREARMS FIELD

DECEMBER, 1958

VOL. IV, 12-48

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George C. Potash of Chester, Pa. with his big bruin dropped by one shot with a Hornady 180 grain round nose bullet at 80 yards running. A Pennsylvania record when taken.



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GUNS in the NEWS

[Special]—

♦ Newark, N. J. A gun-totin' cowboy surprised an outlaw trying to crack a laundry company safe. The startled badman had fled the scene by the time police showed up, but he'd had to leave before he could get anything and the officers figured the cowboy gunman had done pretty well ... especially considering he was only four years old.

★ ★ ★

♦ Indianapolis, Ind. The thug who tried to loot a record shop here made something of a mistake, even though the store was run by an old-timer. Said old-timer grabbed a gun and routed the intruder in a hail of bullets. The proprietor was Cheyenne Tex Holley, a former Texas Ranger and trick-shot artist who had chased another badman, Pancho Villa, four decades ago.

★ ★ ★

♦ London, England. The term "trap," for the device used in propelling clay pigeons as shotgun targets, originated here and comes from the fact that the original trapshooters placed live birds in a series of boxes, called traps. On signal, the operator of the traps pulled a cord, liberating the birds as targets for the shooters.

★ ★ ★

♦ Washington, D. C. His apartment house had been broken into several times recently and 69-year-old Dr. P. W. Bowman was ready for the young thug he saw beating a 91-year-old tenant. "Put your hands up," he ordered the intruder. "I've got a gun," snarled the thug. "You won't have an opportunity to use it," said the doctor, displaying his .22-caliber pistol. The thug submitted meekly and police came and hauled him away.

★ ★ ★

♦ Birmingham, Ala. When Willie C. Prather picked Mrs. Sarah Sharpe's number from the phone book and began a week-long series of obscene phone calls, he picked a wrong number. Mrs. Sharpe phoned the police, but they could not locate the anonymous caller. Saturday night, Prather tried to force his way into the Sharpe house. Mr. Sharpe met him at the front door, fired a single blast from his 12 gauge shotgun, killing Prather.

★ ★ ★

♦ Kansas City, Mo. You can call Joseph Centimano persistent if nothing else. Robbed of \$225 and a ring, Mr. Centimano grabbed a shotgun and charged out of his liquor store in pursuit of the gunman. He fired, and the bandit went down but bounded back to his feet again and scampered on. Mr. Centimano ran back to his store, got another shotgun and continued the chase. Officers arrived on the scene and arrested a suspect in a blood-stained shirt.

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Joe Hiestand

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Elmer

Keith

says . . .

Remington Teal Wing Blue 572

Some time ago we tested and commented on two color phases of the Remington Model 572 .22 caliber trombone action repeater. Since then we have tested Remington's latest color phase in this fine little rifle. It functions perfectly with Shorts, Longs, or Long Rifle cartridges indiscriminately. It also delivers very good plinking and hunting accuracy.

These rifles have an aluminum alloy receiver and barrel. The barrel has a rifled steel liner. Stock and slide handle or forend are of very light maple-colored hard wood. Barrel and receiver are a very brilliant deep blue, while the sights both front and rear are gold plated and the magazine tube, trigger, and safety are chrome plated. (The gals must have invaded the gun industry! Now we have a Crow-Wing black, a Buckskin tan, and a Teal-Wing blue, not in dress silks but in rifles!)

Although I never did like aluminum in a gun, and do not see how as accurate or as straight a barrel can be made with a thin steel liner inside a barrel of normal outside diameter of aluminum alloy, this ultra lightweight (just over 4 lbs.) but man-sized weapon has its good points. It will be especially useful for airplane transportation, where every pound counts. I know that such a rifle would have produced all the francolin, sand grouse, and guineas we could have eaten on my African trip, and would have done so with a lot less noise than the 12 bore I used. This ultra light weight would also be appreciated by the heavily laden trapper stringing out his traps in the winter.

The rifle holds 20 Shorts, 17 Longs, or 15 Long Rifle cartridges. Breech action is the typical streamlined Remington design, as is the trigger guard. Breech bolt is a long slim rod reminiscent of the Model '73 Winchester but much smaller in diameter. It must be good material as it seems to stand the gaff very well indeed. The rifle fits most shooters, functions perfectly, and is accurate. Being old fashioned, I still prefer all-steel arms, and so does Mrs. Keith and other women here who are shooters. However, many novices to whom we showed the rifle much preferred it with its snappy coloring and light weight to the heavier all-steel rifles.

Sizing & Loading Dies For British Elephant Cartridges

The Hollywood Gun Shop, Hollywood, Calif., now make and furnish sizing and loading dies for all the big English express cordite cartridges. All of these big cartridges can be reloaded by using the English Berdan cap or the caps furnished by the Alcan Co.,

Alton, Ill. Lyle Corcoran's Hollywood dies do a first class job of resizing full length in his big presses, and also a first class job of bullet seating. It is now easy to work up a load for any of the big British bolt or double barrel guns with our cool burning I.M.R. powders. Cast bullets can also be used for light loads, or even paper patched bullets for use with black powder if desired. I.C.I. (Imperial Chemical Industries, Ltd., of London) have dropped many famous elephant cartridges from their lists, but now that dies can be had from the Hollywood Gun Shop, and thick jacket solids and soft nose bullets of proper weight from Fred N. Barnes, Grand Junction, Colo., anyone can reload for his rifle if he has a few cases.

Many sizes of cases can be made easily with this Hollywood sizing die from others that are on the continued list. The .500-.450 3 1/4" can be made from the .470 or .475 straight. The .476 can be made from the .470, .465, or .475 straight by cutting off one-fourth inch and resizing. Likewise, cool burning American powders will give longer barrel life, and Alcan claims to have non-corrosive Berdan caps.

Light Waterproof Gun Cases

The Boyl Co., Des Moines, Iowa, now have a very light waterproof plastic gun cover for field use. It is thin and light, can be folded up and slipped in a coat pocket when not needed, handy to slip on the gun or rifle when a thunder shower comes up or in a wet snow squall.

Gunsmiths Screw Drivers

Bob Brownell of Montezuma, Iowa, markets a set of gunsmiths' screw drivers, or as our British cousins call them, screw spanners. These excellent drivers are made for gun screws and a set of them will enable one to remove or replace screws on fine guns without burring, spreading the cuts, or ruining the original appearance of the screws.

.375 Magnum Rimmed C & H Double

We have been doing some test work with a best-quality Cogswell & Harrison double rifle. This is a most beautiful hunting arm taking the rimmed version of the .375 Magnum. Barrels are 26". There are two triggers, but the front trigger is hinged so it won't rap the finger when firing the rear trigger. The stock has a pistol grip with trap grip cap and extra front sight. Front sight is mounted on ramp and there is an excellent standard and two-leaf wide-angle English V rear sight with platinum center line mounted on a short rear rib. The rifle is superbly stocked in very fancy French walnut of beautiful figure, and the stock is well shaped

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and of excellent dimensions for most men. It is a side lock, and locks and frame are covered with fine English scroll and game scenes. Purdey foreend fastener. Double underbolt and extended top rib with cross bite. Top safety and stalking lever to lock same. The rifle balances, fits and handles like a fine custom arm should do.

We did not have any plain 300 grain soft point but did have 235 grain patent point, and 300 grain Westley Richards copper capped hollow point. The gun is proofed for the heaviest cordite loads and 300 grain bullets. Double rifles are usually regulated for one bullet weight and charge of powder, and as we have repeatedly seen the .375 advertised as shooting three weights of bullets to the same group, we were anxious to find out.

This rifle shoots perfectly with the 270 grain bullet load, putting both barrels right together in the same small group; but with 235 grain it spreads the two barrels into groups. Both groups were good, but the right barrel shot to the right, and both barrels shot much lower than with the 270 grain load. The 270 grain seems standard in this rifle and shots exactly to the sights and both barrels together. With the 300 grain Westley Richards capped 300 grain (for which the rifle was probably never regulated) the two barrels each shot very small groups of around two inches at 100 yards, but the groups of the right barrel was lower and to the right of the left barrel. I believe the rifle would shoot plain soft point 300 grain to the same impact with both barrels, the same as it does with the 270 grain bullet ammunition.

I have owned and tested a great many double rifles and found only one before this that would throw two bullet weights to the same elevation and put both barrels in one group. This was a best-quality Lancaster .375 Nitro Express, loaded with 48 grains 3031 and the 270 or 300 grain Western soft point bullets. This beautiful rifle was no doubt regulated for the 270 grain bullet, and may also have been regulated for the 300 grain soft point.

My advice with all double rifles is to stick to the one weight bullet for which they were regulated. Cogswell & Harrison build these beautiful best-quality side locks in .375 Rimmed Magnum and also in .470. They are available from Winfield Arms Co., 1006-1008 South Olive Street, Los Angeles 15, California, or from Frank Clark Jr., Box 297, Cheyenne, Wyoming. Cogswell & Harrison's address is 168 Picadilly, London W.1, England. The .375 Magnum is an ideal all around rifle for America, and the .470 is an ideal all around big cartridge for Africa and India.

Fine double rifles are, of course, very expensive and the best quality arms in any of the English makes come higher than most men can afford; but they do offer the very ultimate in fine gun building and are perhaps the finest of all sporting rifles for timber shooting of big game or wherever one may need to get into action fast. They are also the most reliable of all big game rifles, as you have two complete single shot rifles with actions are not going to let you down. If you have one missfire (which is rare), you still have that other barrel. I have used them for many years on American game, and I used the .476 Westley Richards on Africa's big five with most satisfactory results. I con-

(Continued on page 63)

12th ANNUAL ROUNDUP of Western Christmas Cards

Illustrated by Robert R. Lorenz



"Merry Christmas"

No. 1052 — Greeting inside:
"and Best Wishes for a
Happy Holiday Season"



"Packin' in a load of
good wishes"

No. 1053 — Greeting inside:
"Merry Christmas and a
Happy New Year"



"Competition"

No. 1054 — Greeting inside:
"Best Wishes for a Merry
Christmas and a Happy
New Year"



"Th' Cowman's Faith"

No. 1055 — Greeting inside:
"May the Peace and Joy
of Christmas be with
you through all the year"



"Greetings from Our Outfit
to Yours"

No. 1045 — Greeting inside:
"Merry Christmas and a
Happy New Year"



"Spurs 'n' Pine"

No. 1057 — Greeting inside:
"Merry Christmas and a
Happy New Year"



"Greetings from our
house to your house."

No. 1056 — Greeting inside:
"With best wishes for a
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MODEL 340B \$3395

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CROSSFIRE

Gun Of The Month

I have enjoyed every copy of GUNS I have ever gotten but your current issue is by far the best. There was not one article that I was not interested in, all of them made wonderful reading.

My favorite is Gun of the Month and I would like to see it every month. I keep them; they make a very interesting "scrap book."

Ronald L. Cuning
Mansfield, Ohio

17,000,000 Strong—Plus

In a recent issue of GUNS you had a letter from Charles Alexander who mentioned his interest in machine guns. You also had a letter from Charles Pernice who mentioned the 17,000,000 shooters in the U.S. Both are interested in pro-gun legislation. It is to these two gentlemen and all other interested shooters that I offer this bit of information.

The American Automatic Weapons Assn. is backing a petition to have the National and Federal Firearms Acts amended. In general, the petition requests amending the acts so that no administrative measures may be taken without the express approval of Congress. It also requests the forming of a Committee to investigate the usefulness of the acts. Petitions are available from the American Automatic Weapons Assn., Editorial Offices, 827 Elmwood, Evanston, Ill.

May I also say that I enjoyed your article on the new Walther P-38's very much. I am glad to see that GUNS is reporting on these weapons as fast as they are available.

C. Von Kriegsfeld
Cicero, Illinois

A Friend in France

On my left lies the March number of GUNS and on my right the February number with that splendid photo of the peerless shooting editor, Elmer Keith. In a drawer of my desk are three favorite books, "Frederic Remington, Artist of the Old West," "The Western Party," and last, but not least, "Sixguns" by Keith. Please tell Mr. Keith, when he is back from safari in Africa, that he has a great friend and enthusiastic admirer here in Alsace. Keith's "Sixguns" is unique. No other author on the pistol and pistol shooting has or will ever achieve such a monumental, comprehensive work on the most fascinating of all arms, the pistol.

As to special comments and wishes, please give the pistol a big place in GUNS. And let me emphasize here that the American pistol ranks foremost in the general interest of shooters. That is true, especially, concerning the American revolvers, Colt, Smith & Wesson, and the beautiful Ruger. The classic, traditional single action six-shooters are the dream of the lads who like the pistol, and American pistol tradition. Another pistol

which commands great attention here, too, is the single-shot standard sporting pistol. I understand Ruger contemplates producing one in the shape and "feel" of the classic single action revolver of frontier days.

The single shot pistol should come with target sights, to handle .22 short, long, and long rifle. It would be the ideal for target and holster or outdoor sporting handgunning. Barrel length should be 7½" as on the old cavalry Colt; of course, coil springs for real usage.

I have just renewed my subscription to GUNS and recommended to rush the order so that I don't miss a single number. GUNS is the best, the foremost shooting magazine existing all over the world. No other publication pertaining to shooting matters offers the standard of your publication. I send you my most sincere wishes and kindest regards.

F. T. Kellermann,
Strasbourg, Alsace,
France

Any more readers want a single shot target and plinking pistol? The U.S. used to have some pretty good ones—Stevens, Smith & Wesson, Colt, H & R all turned out first-rate single shot handguns for field and target. The Ruger pistol referred to by Mr. K. is strictly an experimental handgun made in 22 Hornet caliber. But Bill Ruger, Southport, Conn., might like to know if he could sell enough single shooters to make the tooling up worthwhile.—Editors.

That Question—Answer Question

Your magazine, in my opinion, is without peer in the field of firearms. I enjoy every information filled page and greatly appreciate the fact that the only advertising that appears pertains to guns and hunting.

I would like to make a suggestion, which I'm sure has been made before. I would like to see a question and answer section.

Mr. James Gagliano
Chelsea, Mass.

A lot of people have wished for a question-answer department—including GUNS editors. Trouble is, running such a department (the way we'd insist that it be run) would be a full-time job for a top-flight man. Such men are scarce, and expensive. We're working on it; but, for the present, no can do.—Editors.

Target Shooting, International

GUNS Magazine seems to be increasing in reading interest with every number; at least this is my opinion based on the fact that the articles written and the other notes are so varied that interest is held right along.

My personal interest is target shooting, and in particular, International type rifle shooting. Perhaps articles on shooting tactics, methods, etc., as followed by shooters of known ability in the various countries could be studied and printed in your maga-

zine. Thus, a cross comparison of methods might be made by all interested parties and used by us in those cases where applicable. Of course, this is my personal interest, but I know that International type of shooting is slowly but surely taking hold in the U.S., and it might help those shooters in abbreviating their initial learning period.

The magazine "as issued" is good enough for me. I am binding my copies for permanent reference source.

Domingo G. Cañez
Mexico 5, D. F.

Bull Pup History

In your July issue, in the article about the Bull Pup rifle, the author does not go back beyond 1945 in tracing its history.

I built one with a heavy 30" barrel chambered for .300 Magnum cartridge for 1000 yard target shooting in 1937, and had it at Camp Perry that year. In 1941 it was sent to Springfield armory on request of Al Woodworth, who stated that they wanted to make up one for testing purposes.

At the time this gun was made up, the idea was completely new to me, but shortly after it had been given publicity, one or two others came up with the information that they had the same idea, but had kept it quiet. A patent attorney advised that it had previously been patented in Germany, definitely not a new idea.

Who came up with the name "Bull-Pup" is now lost in the mists of time. Mine was an excellent 1000-yard gun, winning the Montana Wimbledon two or three times, the Northwest Wimbledon at least once, and shot two or three possibles at Camp Perry. Then came the War, and an end to target shooting.

I thought this might be of interest to keep the record straight.

J. R. Buhmiller
Kalispell, Montana

Guns For The One-Gun Budget

I have just read your magazine and was very much interested in the article "Guns for the One-Gun Budget." I have always been a user of the .25's. Here at my gunsmith shop I have ranges up to 300 yards and have tested a lot of rifles for accuracy and drop. I agree with Bob Kindley, but would like to make him a suggestion. As long as you are going to reload any way, I suggest that you try the fine .257 Ackley improved. This does several things for the shooter. The straight case and 40 degree shoulder makes for easy extraction and cases do not stretch. If you are hunting and run out of handloads, for some reason factory .257's can be used.

In most of the rifles that I have built, I have used the 1 in 12" twist and found that the 120 gr. Speer bullet has given me fine accuracy out to 300 yards. The load for this is 49.5 gr. 4350, giving close to 3000 FPS. I have never had a deer get up after I hit him with this load. For the Rem. 722 action I suggest the 117 gr. Hornady round nose with 50 gr. 4350. These loads are near tops, so work up to them. For varmints, I used 37 gr. bullets backed with 54 gr. 4350 for 3400 FPS, and a 100 gr. bullet backed with 51 gr. 4350 for 3200 FPS. All my rifles have the long ¾" throat and I seat the bullets out as far as the Mauser magazine will allow. If using a short magazine, cut the above loads 5 gr. and start up. This cartridge I

feel is a much better choice than the .25-06 standard and improved versions.

If any one is interested in the loads that I have tested, please feel free to write.

Wayne E. Schwartz
Owosso, Michigan

Swiss History

Your heading on the article about Switzerland is not accurate. During the past 600 years the Swiss have been in quite a few wars, but there was only one time the nation was overrun. They never forgot about it, and since then have kept prepared.

In the early days of the Confederation, they fought numerous wars with their feudal neighbors, all of which were neck-or-nothing affairs. Their early battles with the Hapsburgs, and the three fights which wrote off the Duchy of Burgundy as a military power, were characterized by fast movement to close with the enemy and furious attacks as if they were afraid their enemy would not last to give everyone a crack at them. The Swiss mobilized fast and could make 30 miles a day into enemy land while the feudal forces slowly assembled.

Feudal horsemen were the top dogs until the Swiss had at them. They were not accustomed to being attacked by foot soldiers, much less by infantry which did not stop for anything. So the Swiss got a ferocious rep in Central Europe, and for a couple hundred years were highly prized mercenaries. The battle of Marignano closed this era. The Vatican Guard is the last remnant of the ancient "free companies" which were the terror of Europe in the days before field artillery.

Switzerland remained for a long time weakened by internal squabbles, but this had the good effect of keeping them out of the 30 Years' War. Several small wars among the cantons and cities were fought. Internal division brought downfall at the hands of the French, and during Napoleon's day Switzerland became a battleground for the first and last time, so far. The civil war of 1848 was the last armed action in the country.

The Swiss neutral policy is backed with as much force as they can assemble. They know how much treaties are worth when large nations fall out. Switzerland's forces could never defeat a major army. They merely intend to make it cost as much as possible, and they are just the type who can do it.

John P. Conlon
Newark, Ohio

Riflemen and Citizen-Soldiers

It was a great pleasure to read in the recent GUNS Magazine your article on "Guns for a Nation of Riflemen." As a native of Switzerland who served in the Swiss Army, I can say that you have very well understood the spirit and traditions that make the Swiss a nation of riflemen and citizen-soldiers.

I have not visited Switzerland since 1945, when I was there as an American GI on furlough, and of course have not been able to follow recent developments over there; that is another reason why I found your article extremely interesting. Thank you again for a very fine article. GUNS is a splendid magazine. I never miss an issue.

Philippe Courvoisier
Greenville, Illinois

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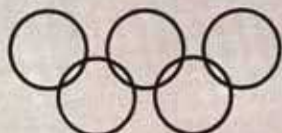
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PICTORIAL HISTORY OF U.S. SINGLE SHOT MARTIAL PISTOLS

By J. M. Kalman and C. M. Patterson
(Scribners, N.Y., \$30)

This limited edition art book is a novelty in the arms field. It must be pointed out that it is simply an art book, a "dreaming" catalog, of exceedingly rare and historically significant collectors military pistols. There are in print other books which illustrate adequately and describe U. S. single shot martial pistols and which cost a good deal less. But when a collector starts thinking of the guns billed as "U.S. Martial pistols," he is treading into a field of collecting where either a benevolent gift-giving grandfather, sheer blind luck, or a lot of money, are the pass-keys. Considering that the book costs less than 1/10th of one percent of some of the better-known martial pistols illustrated, it is not expensive. For the pictures alone make the book. Kalman has turned to water-colors with their happy faculty of transparency, and has obtained the effect of burnished steel, overlaid with a thin film of oil, to give the pictures of guns an unusually realistic quality. Draughtsmanship is of the highest order. Few artists can paint a picture of a pistol that looks like a pistol. Kalman is one such. Dents and marks of service on the originals have been carefully reproduced in the paintings with a fidelity which recalls the life-like work of William Harnett. The sequence of U.S. military sidearms from the days of the Revolution to the turning point of cartridge firearms in the single shot Remingtons has been pictured. Meade Patterson, well known as a collector and student of military arms, has prepared the text. Patterson's descriptions are precise, his details correct, and informative. The original price of this edition (limited to 2375 copies for sale plus 125 presentation copies) was \$22.50. If you can find a copy now at that price, consider yourself lucky. The publisher has upped the price to \$30 in view of the select demand and the high cost of producing such a beautiful book.—WBE

WORLD'S GUNS

Edited by Phil McFarland & Burt Brenner
(Golden State Arms, Pasadena, Calif. \$2.00)

This remarkable book is good for reference, as well as a catalog of things to buy. Thousands of pistols, rifles, muskets, and edged weapons and armor are photo-illustrated and priced. In going through the offerings I noted a number of "sleepers." No, there weren't any Walkers listed as 2nd Dragoons, nor did they overlook the obvious rarity of some specimens. But prices on blunderbusses, for example, are in line with current catalog demands and the goods are there for sale, not listed to attract attention. Numerous rifles and muskets of 1850 to 1900, certainly the most interesting period of weapons design for the collector, are priced from \$50 down to \$9.95. The scope of arms tabulated is tremendous, and such guns as Mausers, Enfields, Lebel's and other standard military arms are on hand in quantity so the

(Continued on page 59)

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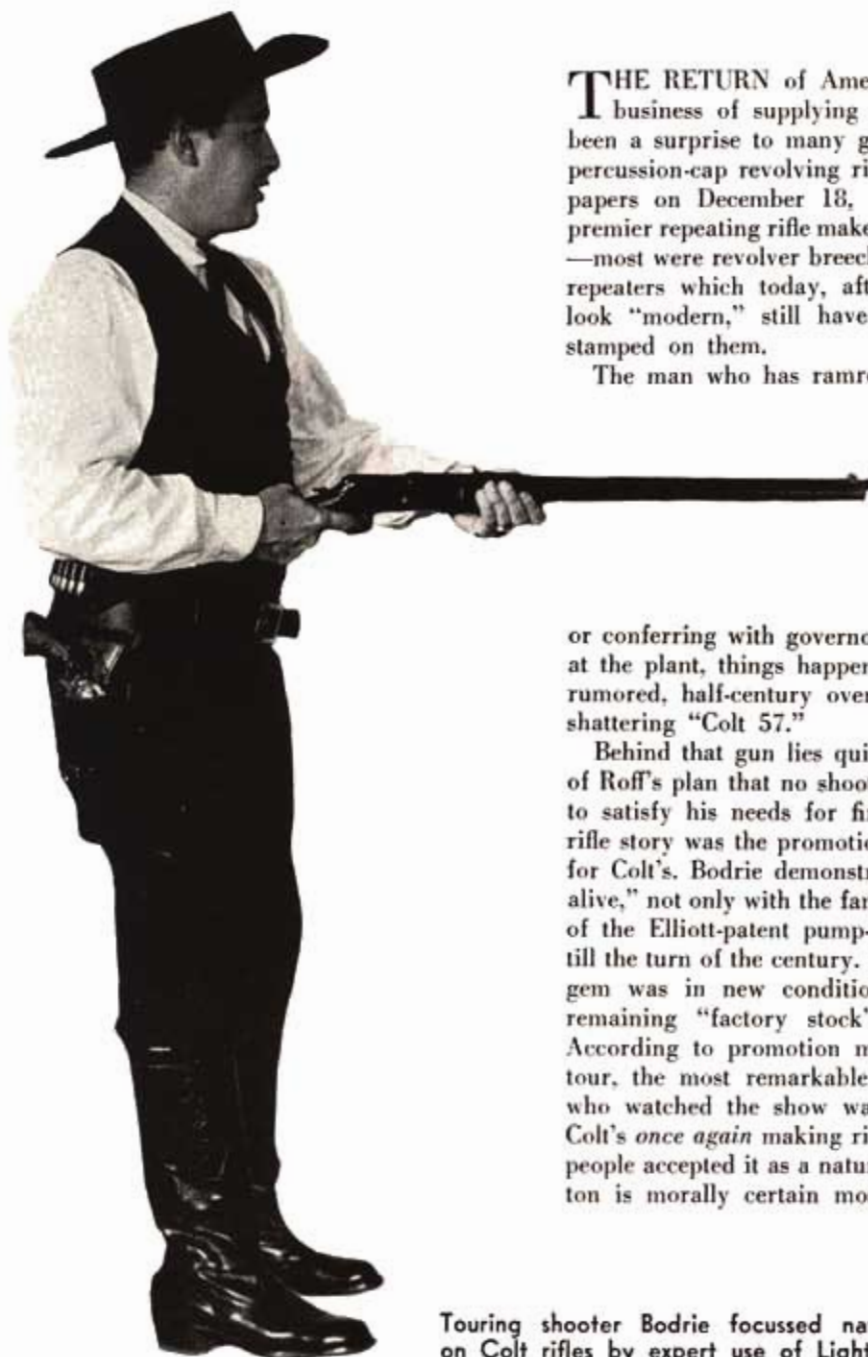


THE COMEBACK

**COLT RIFLES, COLLECTOR-ITEMS ONLY FOR MANY A
DECADE, ARE NOW VERY MUCH A PART OF THE SPORTING ARMS PICTURE**

By WILLIAM B. EDWARDS

Author, "The Story of Colt's Revolver"



THE RETURN of America's oldest repeating rifle maker to the business of supplying shooters with modern sporting rifles has been a surprise to many gun fans. Colt's, which launched its 3-shot percussion-cap revolving rifles by an advertisement in the New York papers on December 18, 1837, was until after the Civil War the premier repeating rifle maker in the world. Dozens of models were made—most were revolver breech rifles, other lever action and pump action repeaters which today, after a half-century of discontinuance, still look "modern," still have definite appeal with that rampant Colt stamped on them.

The man who has ramrodded the return of the Colt is a square-jawed dynamo named Fred Roff, Jr. Nominally VP and sales manager, Roff spends more time making sure the Colt name appears all over the nation, than he does at the Colt plant. In emulation of Mr. Colt himself, Roff's nights are spent travelling, his days at police conventions awarding Colt guns or conferring with governors on hunter-safety programs. When he is at the plant, things happen. What happened last year was the long-rumored, half-century overdue issue of a Colt rifle—the precedent-shattering "Colt 57."

Behind that gun lies quite a story. Part of it is in implementation of Roff's plan that no shooter should have to go outside the Colt line to satisfy his needs for firearms. A straw in the wind of the Colt rifle story was the promotional tour of Joe Bodrie, exhibition shooter for Colt's. Bodrie demonstrated his claim to the title of "fastest gun alive," not only with the familiar Colt Single Actions but also with one of the Elliott-patent pump-action Colt rifles made from about 1835 till the turn of the century. An octagon barreled .44-40, this collector's gem was in new condition, being drawn from the two or three remaining "factory stock" guns deposited in the Colt museum. According to promotion man John Millington who set up Bodrie's tour, the most remarkable comment from the thousands of people who watched the show was the much-repeated observation "Oh, is Colt's *once again* making rifles?" Somehow, hundreds of thousands of people accepted it as a natural thing to see a Colt rifle, though Millington is morally certain most of them had never really seen a Colt

Touring shooter Bodrie focussed nation's attention on Colt rifles by expert use of Lighting Model .44.

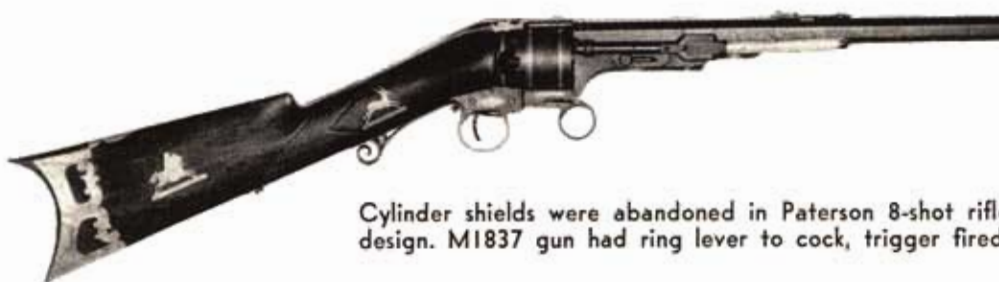
OF THE COLT RIFLE



Test gun was pre-Paterson model made by Pearson, used because of large caliber.



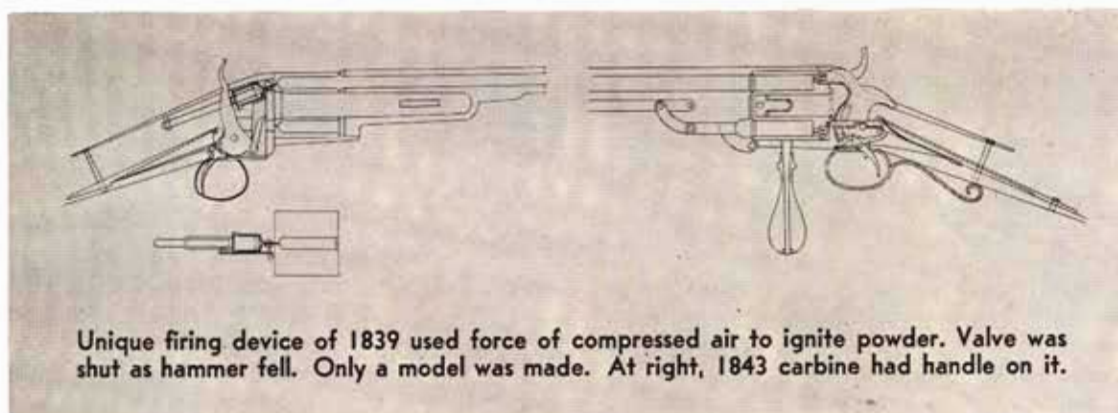
Pistol maker was premier rifle man as well.



Cylinder shields were abandoned in Paterson 8-shot rifle design. M1837 gun had ring lever to cock, trigger fired.



M1839 "New Carbine" was type issued to Army, Navy, Texas troops and were used by Marines in Florida wars.



Unique firing device of 1839 used force of compressed air to ignite powder. Valve was shut as hammer fell. Only a model was made. At right, 1843 carbine had handle on it.



Walker-type revolving rifle was announced in ads of 1847-8 but making and selling pistols took all Colt's attention.



Ramrodding Colt's by astute management is Fred Roff, Jr., sales VP (right), shown with Gov. Freeman of Minn.



M1855 sporting rifle (top) was also made as military arm used by Sharpshooters. Lever rifle was model 1883.

rifle before. But from that tour, plus the ricochets from the rumor "Colt's is making rifles," emerged the Colt 57 sporter in .30-06 and .270 caliber.

The 57 is a good, solid, American-style sporting rifle built on the imported FN Mauser action. At the moment, Roff wanted to get guns into the market, giving shooters a well-built, safe, accurate rifle of standard pattern, and the basic Mauser action, copied at the time in modified form by other leading U.S. riflemakers, was available. Using the Mauser, Colt's acquired barrels of the exclusive poly-grooved system developed by Harry Sefried, leading U.S. arms engineer. Today, Sefried is producing the Colt 57 under the supervision of Colt inspectors.

Manufacturing the barrels in Sefried's shop is not a new thing with the Colt rifle program. Back in Paterson days when the first revolving rifles appeared, the barrels were bought "from the barrel maker in Litchfield" (Conn.), and fitted to the Paterson guns under Sam Colt's supervision. And in 1861 Colt's obtained thousands of barrels from English and Belgian gunmakers: barrels that had to pass the strict Colt factory and U.S. ordnance inspection before being accepted on the Colt U.S. Rifled Musket, in its day the finest military muzzle-loading rifle made.

At the same time, though the Colt 57 topped \$100 in price, Colt's prepared a single shot bolt gun, Colteer .22, to sell for a ridiculously low price. Though the little rifle is plainly finished, it has an excellently proportioned stock. The action design suggests strongly that it is an improvement on the rugged small-bore Mauser rifles, long famous for precision quality. Though the Colteer is a mass-market rifle, when I first saw it I suggested Colt's try a match rifle based on a beefed up, costlier version of the Colteer action. Basically, it has the stuff to make a premium gun. Exponents of a complete package for the shooter, Colt's announced the two with matching scopes, both strongly competitive with other arms.

Further refinement to the rifle program resulted the following year, early in 1958, in settling on three improved big-bore rifles to replace the Colt 57. First were the Coltsman Standard big bore rifle and the better Deluxe. The Coltsman takes the fine Colt scopes, or appropriate iron sights. The action is the big Swedish improved Mauser, with slick side safety and low bolt handle. On the premier grade Custom, the stock is finished slick as glass, with beautifully grained wood and contrasting cocobolo forend cap and pistol grip cap. On all five rifles—Colteer, Colt 57

(now obsolete), Coltsman, Deluxe, and Custom Colt—the front sights are of a unique design. The ramp is moulded with a serrated face toward the eye, with wide blade foresight. The almost universal use of a scope in this field—higher power for accuracy at long range or low power for maximum hunter safety in the woods—has made the Colt and scope ensemble very popular.

With all of these rifles, Colt's has a problem. It is one not easily solved, but it is one with which Roff has been personally concerned for a long time. Perhaps the easiest way to state the problem is by analogy—the Peacemaker "looks like a Colt," and the Official Police "looks like a Colt" and the Woodsman "looks like a Colt." In Sam Colt's day, the revolving cylinder plus the peculiarly high quality of finish (equalled but not surpassed with the newest Custom Colt), marked the rifle as "a Colt," also. Today, some distinguishing mark should set the Colt rifle apart from all others. One step forward is Sefried's special front sight; another is the use of the contrasting wood tips in the premier quality Custom grade.

Yet a look at the rifles which precede these recent re-entries in the shoulder arm field show a combination of "distinctively Colt" characteristics. A study of their success might lead toward the right answer today. The Colt rifle program is now a success. But the rifles are distinctive without being individualistic, and rumor hath it that study is going on now to make Colt shoulder guns say "It's a Colt" as unmistakably as do the Colt revolvers and pistols.

Novelty in the rifle field is old hat at Colt's. When Sam's first successful shoulder guns were built up by Baltimore gunsmith John Pearson, the rotating chambered breech was the distinctive feature. Two patent suits made Sam's path rocky, but both Adam Humbarger and Mighill Nutting, revolving rifle inventors, have faded into the past. The first Colt factory failed and, regrettably, the revolving rifle program was something less than a success. Colt turned his manifold inventive talents to solving the difficulties, but ironically he took the wrong track. When, later with his Hartford factory, he found the answer, difficulties with earlier guns damaged the sportsman's confidence in his improved revolving rifles.

Pre-Paterson experimental guns were subject to the hazard of two or more chambers setting off at once. The recoil and noise was prodigious, and the cylinder itself might burst. A model gun made by Anson Chace in Hartford in 1833 went off this way— (Continued on page 50)



Double rifle of 1880's was limited production, made mostly in .45-70, favorite of Colt's son, Caldwell. Trombone Elliott repeater came in a .22 (left), .44 and .45 sizes, 1885-1903. Big Browning was made as BAR and several Monitor and military styles, like M1922 shown. Colt 57 bolt gun is 1957 model, marking Colt's reentry into sport-rifle market.



Colteer .22 with scope, Coltsman Deluxe, and Custom Colt are now in the Colt line.



Mourning doves held by Curtis are our "most available" bird but often escape shotgun patterns.



DOVES ARE THE WINGSHOT'S BEST EGO-DEFLATER

**"LEAD 'EM ALL YOU DARE—THEN DOUBLE IT!" EVEN THEN,
YOU'LL OFTEN SHOOT BEHIND THESE FEATHERED PHANTOMS**

By WILLIAM CURTIS



MANY HUNTERS ARE surprised when they check the migratory bird take to find the mourning dove topping the lists. The reason actually is simple—they're our most available bird. Chances are you can reach good dove shooting without long or expensive junkets. My biggest expense is usually ammunition, and that's the reason these speedsters are one of my favorite

targets. I like to shoot, and doves give me a lot of action.

I enjoy the change of pace in shirtsleeve dove-shooting. Our season here on the west coast falls between the black-tailed deer season and duck hunting. Ducks can lead you on a cold, cramped trek. Blacktails are a muscle-straining, sweat producing business in August.

Just last year I was chasing bucks over one brushy ridge after another. Deer seem to be getting smarter every year and the ridges steeper. Then came the first of September and dove season. I blew the dust off my pet Model 12 Winchester, dug out an old box of 7½'s, and headed for a stubble field a few miles from where I live near Arbuckle, California.

I parked the pickup under a giant white oak and had to walk only a hundred yards to reach a gravelly wash deep enough to break my outline. Early in the season you don't need much of a blind to hoodwink a dove. After being worked over for a week or two, they can get wary as gun-shy mallards.

I barely got the rocks raked comfortably out from under my rumble seat before hearing the welcome whirr of dove wings. A pair of them came tearing by just out of range and pitched into the wheat stubble a hundred yards away. Almost as if in response to some signal, other speeding forms began to materialize out of the late afternoon heat waves. I heard a rapid bang-bang from the opposite end

of the field. Soon a high-flier came zooming by, right over me. I centered him with the 7½'s, and he bounced into the stubble behind me.

In two short hours I had knocked down a limit of birds and missed that many more. The only time I got up was to retrieve dead dove. A lazy man's sport? Perhaps, but for shooting action hotter than the weather, it can't be beat. That same field paid off for two weeks. The birds scattered then, but certain water-holes produced results the entire season.

A good water-hole around sundown is just about tops for fast action. If the speedy doves are really pouring in, you can pick out the type of shots that have always been your downfall. Nothing will sharpen your eye like experience. I used to shoot over a dinky stock pond in our back pasture. Thirsty doves always came in from the same direction. They stuffed their craws in a mullein patch at the far end of the pasture; then headed for the cool pond.

The pond was wedged in a low place at the foot of a sharply sloping rise. The little mourners would come pelting down that slope like bullets. The first two years I shot there I don't think I averaged over three birds to a box of shells. But I kept banging away. Now, with luck, I can

drop a limit with each box of ammo. It was at this pond I decided that you never shoot ahead of a dove. If you miss one, the chances are good the chilled 7½'s punched holes in the air behind the target.

Mourning doves are remarkably adaptable. During the hunting treks I've made I was surprised to find them over much of the high western, plateau country.

Two years ago I drove to Lassen County in northern California for a crack at the stately sage-hens. I began zig-zagging across the great flats of knee-high sagebrush, all geared up for an exploding chicken. I kept hearing gunfire rattling against the ridges behind me. Finally, unable to contain myself any longer, I got in my pickup and headed in the direction of the shooting. I was positive that some sage grouse hunters must have found the end of the rainbow.

What I found was a freshly harvested wheat field. I could see nimrods hunkered against piles of the pale, chaffy straw. Suddenly, a pair of doves came swerving towards one of the hastily improvised blinds. A blue-shirted hunter reared up, knocking one of the birds spinning. The shooting I had heard were dove hunters enjoying their sport on the high plateaus where you'd (Continued on page 40)



Autoloaders rate high with dove shooters using 7½ shot. Waterhole is good location to hunt.

HANDICRAFT WITHOUT HANDS



Built for fingerless firing is '98 Mauser with stud trigger. At right, M40 WRaco shotgun has slide hook; .22 has forearm knob.



Gunsmith Halvorson and patron and friend George Cutler talk over special details of rifles made for handless shooting.

By EDITH MARK

LAST JANUARY A GUNSMITH DIED. His friends in the little Minnesota town of Houston did not need any magazine article to help them pay tribute to one of their community's most remarkable citizens. But because of the way this craftsman, Edwin Halvorson, lived, his story is unique. For Halvorson, born 72 years ago in 1886 on a farm on Oak Ridge above Houston, turned out dozens of custom-stocked rifles and shotguns, many for famous and wealthy customers. For almost half a century his living was gunsmithing. His satisfied customers are legion—no one has ever heard of a dissatisfied one. Master of an exacting handicraft skill, gunsmith Halvorson was born without hands.

One of Halvorson's first customers—you might call him the man who "discovered" the gunsmith's talent—is George H. Cutler. Head of Cutler's Studio, Photographers, of Winona, Minnesota, Cutler has been a customer and patron of the handless gunmaker for many years. Cutler's eyes light up in appreciative recollection when he tells you about the first gun Edwin made for him. It's a heavy rifle, ten and one-half pounds of sleekly finished, remodeled Enfield. The "tiger flame" maple stock is resplendent with beautiful hand carving, an unusual design expressing Halvorson's search for novel artistic effects. It has no checkering on it, but later

**WORKING TO CLOSE TOLERANCES IN
SPITE OF PHYSICAL HANDICAP,
EDWIN HALVORSON TURNED OUT TRUE
MASTERPIECES OF GUNSMITH'S ART**

Halvorson was active in shop almost to day he died. Below, three rifles are 7mm Mauser, Enfield with unusual stock for friend Cutler, and own M54 Winchester with knobs to make holding easy.



work by this skilled gunsmith shows he was a careful man with the checkering tools as well.

"Maple is a very hard wood," says Cutler. "In this stock the grain runs in every direction. When properly seasoned, the wood is nearly white until oil is burned into it to bring out the rich grain and darken it. With much rubbing and polishing it becomes a rich, glossy chocolate brown."

"There is a secret compartment in the butt of this rifle for carrying sight inserts," Carter says. "I use this prize rifle for target practice only, but Ed Halvorson made

several other rifles in wildcat calibers which I use in big game hunting."

Cutler is an ace photographer, but his hobby enthusiasm is hunting. He is an avid outdoor man and promoter of good sportsmanship and good shooting. He organized the first Winona Rifle Range, with Halvorson as an early member. It was on this range that the handless gunsmith not only became known as a master gunworkman but as a crack shot. Edwin's own target rifle, a much-remodeled Mauser sporter with gleam- (Continued on page 37)

The Man-Rifle Weapon in Atomic War



By HOWARD C. SARVIS

Soldier during Trainfire shoots from foxhole at targets up to 300 meters. Author conceived system by noting similarity of deer hunting to combat.

"THE BOMB" HAS NOT REPLACED THE RIFLE!

**IT IS STILL THE MUD-FOOT MARKSMAN WHO MOVES IN,
MOPS UP, AND CLINCHES VICTORY.**



Target is "Punchy Pete" cardboard, falls down when hit, gives "kill" feedback to trainee.

SIXTEEN MILLION AMERICANS are hunters. 900,000 Americans are soldiers. The hunters come from all walks of life—butchers, bakers, candlestick makers, or astronautical engineers on vacation. The soldiers come from these same backgrounds. They all—the 16,000,000 and the 900,000—have something in common: each man must be skillful with individual small arms. I realized this fundamental relationship several years ago while hunting big game in Idaho.

Several deer sprang out of a clump of brush and ran away. One fat doe stopped on a hillside 200 yards above me, half broadside, in the open. It was an easy shot, and does are legal in Idaho. Ordinarily, I would have just raised my rifle and dropped her. I had done it before.

But this time I lost my nerve. I was standing on a fairly steep side hill, the right foot low, almost sliding down the hard, sandy surface. I tried for a steadier position, prone; but on that slope it was just about the most awkward prone position possible. The doe watched while I squirmed around trying to get a steady aim. Once she seemed tempted to come closer and see what I was doing; then she acted ready to run away. The urgency increased.

I shot at last. The bullet kicked dust almost a yard low, probably splashing a little sand on her. She wagged her tail, took a step or two, uncertain.

It was still an easy shot. I should have stood up and put one in the chest. Instead, I shifted around, still prone, to correct a position already impossible. She took another step or two, began to trot, and then soared away out of sight in the beautiful and incredible bounding leaps of the western mule deer.

I had a good rifle, an adequate load; but hardware alone will not assure success. The trouble lay with the man. It was the last day of the season, my last chance for venison. But, venison aside, the idea of failure was unattractive in itself. And the worst of all, the final blow, was the memory of the whole summer of target practice I had done in preparation for this fiasco! Had I, by firing hundreds of shots from a bench rest at fixed targets, actually schooled myself out of the ability to shoot confidently under live-target pressure?

Target shooting and live shooting are worlds apart, in precision requirements, shooting positions, and especially in state of mind. That winter, the boys coming back from Korea told of bad casualties, of shooting problems and terrain totally unlike the target ranges where they were trained. This terrain and type of warfare brought to light a hitherto unrecognized deficiency in our soldiers' small arms performance. The official stories tended to confirm my own conclusions that something was wrong. For their safety and effectiveness in combat, these young men were entitled to the best weapons training that could be devised.

It is not cricket to tear something down without at least suggesting how to build better. Then began a long process of collecting ideas, culling and compressing them, seeking specific proposals for improvement. A plan began to emerge to make the rifleman the cock of the Army through careful *selection*,

Howard Sarvis is employed at the U.S. Army Infantry Human Research Unit, a field unit of the George Washington University Human Resources Research Office, operating under contract with the Dept. of the Army. The opinions and conclusions are those of the writer and do not necessarily represent views of the University or Department of the Army.



Trainfire teaches rifleman to use available support. Here Pvt. Lloyd Winkleman (Dalton, Neb.) braces against stump as if house wall supported him. Sandbags are also used for rest.



As coach watches, Pvt. Ray Frenz at Fort Carson drops into prone for first time early in Trainfire.

Firing on pop-up targets at unknown distances, Fort Carson trainees use available support at foxhole edge.



realistic *training*—in shooting skill and in cool nerve—and finally rewarding his competence by elite *status*. I decided that, if this was good, there was only one man who could have both the audacity and the over-riding authority to put it over. I sent the proposal to President Eisenhower.

It was like a lucky shot into an ammunition dump, not likely to happen again, ever. My letter released great forces, for many men had been thinking about these problems for years. My letter was like a lens to focus opinion, or a catalyst precipitating action. Ultimately, the ideas were formalized into a system of combat-simulating marksmanship instruction called "Trainfire."

Many things have happened in the intervening years. The experimental research has been done by an agency of the George Washington University, HumRRO (Human Resources Research Office), under contract with the Army. Many men contributed to the development of Trainfire,

often with zeal and enthusiasm beyond the call of duty. Something specific *has* been done, and it is incorporated in a new Army Field Manual, No. 23-71, Rifle Marksmanship Course, Trainfire I, September 1957. This prescribes the marksmanship course which will be given to every male soldier, which in turn means that every U.S. citizen has some kind of stake in it, and should know about it.

Trainfire is an attempt to mass-produce skill. It starts literally with a bang: the man shoots his own rifle, after only a few simple instructions on how to operate it safely. This is to relieve his curiosity, perhaps his fears, at once. It also gets him keenly interested. Almost every training day thereafter, for four weeks, he fires the weapon. While he does this he wears battle pack, canteen, and steel helmet.

All positions are taught, but emphasis is different. Over a third of the firing is from the foxhole, which is standing up, with the support of a sandbag. The squatting position

has been revived because it is quick to get in and out of, adjustable to existing cover, fairly steady, and flexible enough in elevation to see the target with minimum exposure of the firer. Prone is taught but not practiced much, because it is not likely to be used much. Men hesitate to lie down in water, snow, or bloody mud, or on ground with possible chemical or atomic contamination; and even slight grass cover prevents seeing anything from prone.

At first the trainee shoots at aiming points 25 meters away. At this short range, with the man-weapon combination separated from the extraneous variables of light, weather, and distance, he learns steady holding, aiming, and the adjustment of sights. He learns accuracy as evidenced by tight shot groups. He then zeroes his rifle to engage ground level man-sized field targets. From now on all his training is against these "killable" targets.

These are E silhouettes, cardboard cut-outs of a man-like figure in a crouching position, 19 inches wide and 40 inches high. They are mounted on a dug-in target machine which raises and lowers them from a central control tower; when the silhouette is hit by a bullet, it automatically goes down, is "killed." This gives the man instantaneous knowledge of results which the psychologists call "feedback." He then knows what to do next: fire another shot if he misses, or, if he kills, wait for the next target. In some of the shooting practice he does this, being provided with a few extra rounds to use according to his best judgment. This is what

he would do in combat. The automatic target not only provides feedback, but it allows very rapid run-off of practice, for there is no waiting to learn the score. It is also very economical of manpower; pushbutton operation of the targets completely eliminates the former laborious pit details.

Scoring is hit or miss, on the theory that a rifle bullet anywhere in a man's body is enough. If the target goes down, it's a hit; if it doesn't go down, or the man fails to shoot before the whistle, it's a miss. The total hits are the score.

Each shooter has a lane to watch in which targets may appear from 75 to 300 meters away. He takes them as they come, sometimes from the foxhole, out in front of it in various positions, or walking down range and assuming position of choice when the target appears.

Concurrently he receives daily training in something new and important to battle marksmanship: target detection. In this the trainees line up and watch an apparently empty field. Camouflaged men are out there. Sometimes they are motionless in plain sight, from 20 to 350 meters away. At other times they make furtive movements, fire a rifle, or run and go down. The trainee has to spot them, record them on a piece of paper or point a simple aiming device at where he thinks they are. Looks easy? It's not. Many an old game hunter would be completely frustrated. The remarkable thing is that fair to (Continued on page 44)



Conventional rifle practice is (top) outmoded by Trainfire which only has "target" shooting at 1000-inches (above). New bullseye (left) develops new habits of aiming. Trainfire produces accuracy as well as combat riflemen.



**HOW WELL CAN YOU SHOOT YOUR
BIG GAME RIFLE? HOW WELL CAN YOU CONTROL
BUCK FEVER? FIND OUT, AND YOU
WILL BE A BETTER SPORTSMAN, A BETTER HUNTER**

Canada sportsman has shot much game with .303 Ross, says nerve and skill outrank the rifle in hunting results.

By MICHAEL CRAMOND

IT AIN'T THE

IT'S A NASTY QUESTION, but let's face it: How many of us are really fit to shoot a fine gun at a fine game target?

Understand, I'm not trying to talk you out of going hunting; quite the contrary. But if you're Mr. Average among the nearly 20 million men and women who will go hunting this year, I do have a short sermon for you which, if observed, will make your hunt more successful and you a better sportsman.

That sermon in capsule form is just this: Take that hunting rifle of yours out somewhere and shoot at least 20 shots through it at a target 50 yards distant. Study the results, and then govern your shooting at game strictly in accord with what you see on that target.

Some years back, I was a territorial policeman and ex-officio game warden up on the Campbell River in British Columbia. One day a young guy came busting into my office with a story that will do to illustrate my sermon. This chap worked at a logging camp on the railway, and he was really burning. He was scared, too; and when I heard his story, I didn't blame him.

The first words he shot at me were, "I just missed eight bears!"

"Which being true," I said, "and judging by the looks of you that they missed you too, you're a lucky guy."

"You ain't kiddin'! I'm lucky to get out o' there alive! And it's all the fault of that damn gun! Look, there were eight bears, and they weren't 50 yards off! After the first few shots, some of 'em were closer. I shot three times at one lumberin' right toward me not more'n half that distance! Now you know no decent rifle could miss a full-grown bear at that distance! That rifle is just no-damn-good!"

I finally got the details out of him, and they were these.

The garbage from that logging camp was dumped in a ravine a mile or so from camp, and all the bears in the area had spotted that ravine as a free and easy feeding depot. Our friend had seen them there, decided to get himself a hide or two and some bear meat. He went out there with a repeating rifle and, he told me, emptied two complete magazines at various and sundry bears without cutting a hair. He was right; he was lucky to get out of there alive. Not that I think any of those bears charged him; but with that many scared bears in such a small space, it's a wonder he wasn't trampled . . . And he was right again: no decent rifle would miss such big targets, so close.

I said, "I'd like to see that rifle, and shoot it. Maybe then I could tell you what was wrong."

"See it? Hell, you can *have* it! I wouldn't be caught dead with it, a no-good piece of junk like that!"

Well, I took that no-good piece of junk out to the police range and lobbed five shots into five inches without any trouble. I asked another officer to fire it, just to double-check it. He jolted it a little as he picked it up, and his group was like mine only a foot or more to the left. A quick check showed that the front sight was loose, could be slipped back and forth in its slot enough to cause that foot of variance between the two groups. But not enough to account for a whole string of misses on bears; not by a damnsight! . . . As a matter of fact, that same rifle saved my life two months later when I was charged by (of all things) a sow bear.

So what explains the adventure of the little man and the eight bears? Ask any experienced hunter. That man missed his bears for exactly the same reasons that cause at least eight out of ten of the (Continued on page 38)

RIFLE—

IT'S YOU!



For Canada's plains antelope, author urges cool head for long range shot.



Cramond credits caution and aim, more than rifle power, with kill of big grizzly with Ross .303.

Cramond holds cougar shot by partner for portrait. Military guns are about equal in power.



Typical of G.I. calibers are .303s by Canadian Industries, Montreal. Left is 215 gr. Kling-Kor soft point.

AMERICA'S NO. 2 GAME TARGET

By CARLOS VINSON



THE OTHER DAY, leaning comfortably back against a tree in the cool autumn shade with a rifle across my knees and my senses all aglow with that hooky-playing sense of well being I always get on such occasions, I got to thinking about the history, the joys (be-

fore, during, and after), and the guns that go with the ancient and honorable art of squirrel hunting.

The history is long, in truth; and the joys are many: the joys of preparation the joys of doing, and the joys of the table and the liar's bench that come after. The guns—are almost as many; and so are the methods.

My rifle on this particular hunt was a Marlin Model 33-C .22 autoloader with a B-6 Weaver scope. My loads? Nothing very exciting: just common, garden variety Long Rifle ammo with solid lead bullets. This is my equipment for what I call long range squirrel shooting—by which I mean ranges from 40 yards upwards. My eyesight isn't as keen as it once was, and a squirrel's head is somewhat less than a barn-size target.

My first shot this time, as it happened, was a short one. Maybe I had dozed a little, or maybe my thoughts had dulled both sight and hearing, but I came alert in a hurry when a hickory nut hit the ground close beside me. A three-quarters-grown gray clung half hidden near the top of a next-door tree where, possibly, the sight of me had startled him into dropping his current cargo. An older, wiser gray, the chances are, would not have made such an error. I centered the scope, squeezed off the shot, and watched my target pitch down through the leaves to the ground not far from where I was sitting.



Squirrel tails prove effectiveness of this Remington 552 auto and Weaver B-4 scope combination for still hunting.



Using scope .22 on half-hidden heads at 50 yards or better tests Larry Vinson's skill and patience.

FOR MILLIONS OF RIFLE AND SHOTGUN

HUNTERS, SQUIRRELS OFFER

KEEN HUNTING THRILLS PLUS SAVORY

EATING WHEN THE HUNT IS DONE

The rest of the afternoon's still hunt followed the same smooth pattern. The grays and a few fox squirrels were dining heavily on the hickory nuts, and by just sitting and watching the trees with my scope-sighted .22, I was able to bag my limit in about two hours. There's a lot of good eating in six nut-fattened gray squirrels, to say nothing of the sport in bagging them.

According to statistics, more sportsmen hunt squirrels than any other type of small game except rabbits. The little nut-crunching fuzzytails are hunted with everything from bows and arrows to 10 gauge magnum shotguns, but the more experienced squirrel hunters prefer either .22 caliber rifles or shotguns in 12, 16, 20, or .410 borings. For still hunting, the ever popular little .22 rifle is best; and for stalking and dog hunting, shotguns hold a solid advantage.

Before going further into the discussion of squirrel guns and loads, let us first talk briefly about the fuzzytails themselves. Gray and fox squirrels are the varieties usually hunted as game, and both varieties have (Continued on page 42)

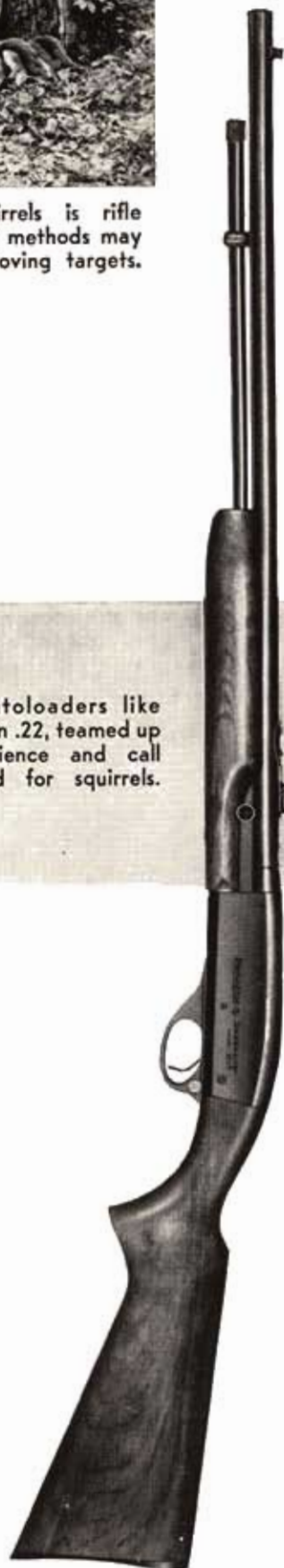


Still hunting for squirrels is rifle sport, but other hunting methods may dictate shotguns for moving targets.

Light autoloaders like Remington .22, teamed up with patience and call are good for squirrels.



Where squirrels can be drawn in to close ranges (under 40 yards) riflemen with good eyesight can score readily with open-sighted rifles, as these trophies prove.



WHICH BULLETS ARE BEST?

By ROBERT V. THOMPSON



Though same in weight, 110 grain .30 and .270 bullets (above) show markedly different shapes.

THE RIFLEMAN'S CHOICE of the best bullet for a wanted performance may depend on that bullet's sectional density. The sectional density is the ratio between the bullet's weight and its cross sectional area. This relationship is important to rifleman for three very good reasons. If a bullet is to carry out to long range and still have good remaining velocity, and energy, it must have sufficient weight, per caliber, to overcome air resistance. For any given diameter of bullet to resist wind drift, it must also have enough weight to keep from drifting excessively. Drift is the cause of many misses, especially at the longer distances. And, when the bullet reaches its target, as in the case of game shooting, it must have good penetrating qualities. This again calls for weight and velocity, enough to drive through bone and muscle and into the vital area.

For a bullet to hold velocity, and energy, resist wind drift, and penetrate deeply, over ordinary hunting ranges,



Lineup above of popular cartridges shows various bullet loading, commercial and handloads. From left to right, they are: .222 Rem., 50 gr. pointed soft-point (Remington); .222 Rem., 55 gr. Sierra semi-pointed (handload); .220 Swift, 48 gr. pointed soft-point (Western); .220 Swift, 63 gr. Sierra semi-pointed (handload); .243 Win., 100 gr. pointed soft-point (Western); .244 Rem., 90 gr. pointed soft-point (Remington); .250 Savage, 87-grain pointed soft-point (Remington); .250 Savage, 100 gr. Hornady soft-point (handload); .257 Roberts, 100 gr. Silvertip (Winchester); .257 Roberts, 100 gr. Sierra soft-point (handload); .270 Win., 100 gr. pointed soft-point (Winchester); .270 Win., 110 gr. Sierra soft-point (handload); .308 Win., 110 gr. pointed soft-point (Western); .308 Win., 150 gr. Silvertip (Western); .30-06 Spgfld., 110 gr. Hornady soft-point (handload); .30-06 Spgfld., 150 gr. Silvertip (Western); .30-06 Spgfld., 180 grain pointed soft-point Remington Corelokt. The long bullet smallbores may shoot better at long range.

**GOOD BULLET PERFORMANCE—LONG RANGE, HIGH
VELOCITY AND RESISTANCE TO WIND DRIFT, GIVING ACCURACY FOR HUNTING
OR TARGET—MAY DEPEND ON SECTIONAL DENSITY**

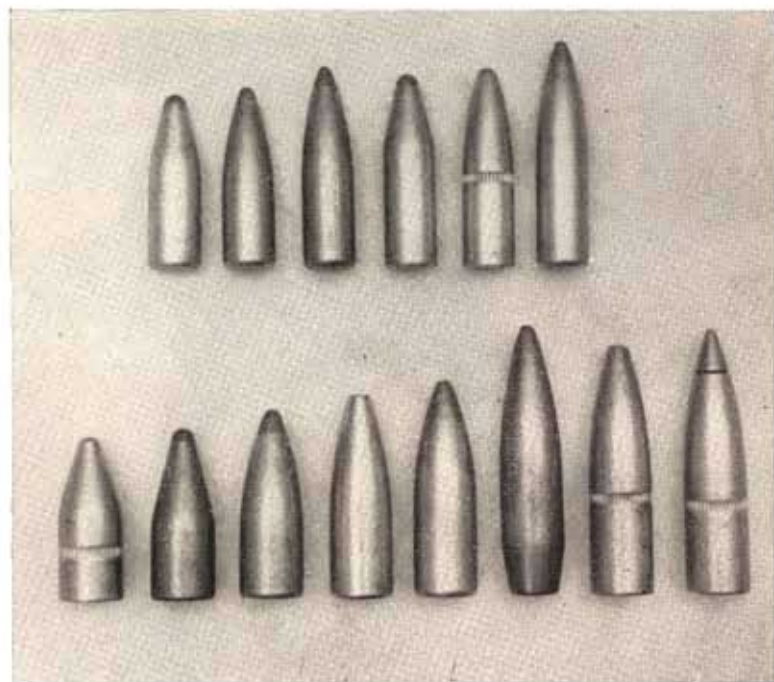
it must have good weight in relation to its diameter. This is where sectional density comes in. The greater a bullet weighs, per caliber, the higher is the ratio between its weight and cross sectional area, or to use the ballistic term, the higher is its sectional density. A .270 caliber bullet will have higher sectional density than a .30 caliber bullet of the same weight. It will also be longer, which explains why many shooters say that longer bullets are more efficient. Two bullets of the same weight, but different calibers, and having the same shape, will react differently. Fired at the same velocity, the small caliber long bullet will shoot flatter, have more remaining energy, drift less in the wind and, in general, will penetrate deeper.

Sectional density is figured mathematically, by dividing the bullet weight, in pounds, by the square of the bullet diameter, in thousandths, or by the formula W/d^2 . This requires quite an amount of figuring, as the bullet weight in grains must be converted to a part of a pound. Then this weight must be divided by the bullet diameter squared, which is a six decimal place number.

The mathematical constants tabulated on page 60 were calculated to eliminate most of this figuring. To find the sectional density of a bullet, use the constant, or figure for that caliber, from the table. By multiplying this figure by the weight of the bullet in grains, the sectional density is immediately determined.

For an example, let's take a .257 bullet weighing 87 grains, and figure the sectional density. From the table, we find a figure of .00216 for the .257 bullet. Multiply this by 87 grains for an answer of .188 (actually 18792 . . .).

(Continued on page 60)



Above are some of the bullets available in commercial loads and handloads for two calibers. Top, left to right: .257 87 gr. Hornady; .257 87 gr. Sierra; .257 100 gr. Sierra; .257 100 gr. Hornady; .257 100 gr. Remington Corelokt; and .257 117 gr. Sierra. At bottom, left to right: .30 110 gr. Remington; .30 110 gr. Hornady; .30 125 gr. Sierra; .30 130 gr. Speer hollow-point; .30 150 gr. Sierra; .30 180 gr. Sierra boat-tail; .30 180 gr. Remington Corelokt; and the .30 180 gr. Remington Bronze Point. You pay your money and takes your choice, based on the characteristics that fit your shooting needs.



Gun of the Month

By CHARLENE SHORE



THE OLD • THE NEW • THE UNUSUAL

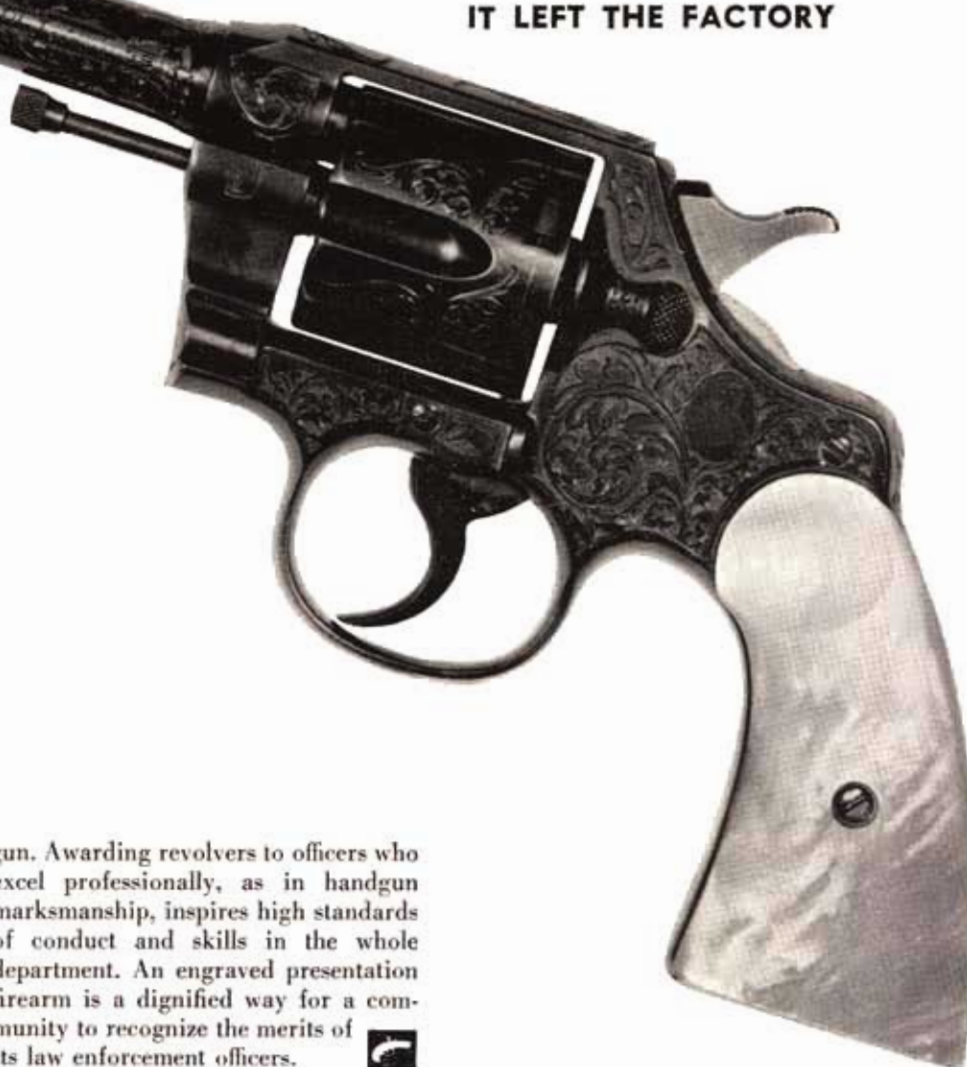


Unusual police presentation revolver is fully engraved in good though simple style, was given to high N. Y. shooter.

**PRESENTATION COLT BEARS
DATE OF AWARD TWO MONTHS BEFORE
IT LEFT THE FACTORY**

A STANDARD ARM of police is the .38 Colt. This one is fancy, but what else makes it suitable for a "Gun of the Month," usually reserved for the exotic, the unique? First, the gun was presented to a police shooter winning a September, 1925 match, but it was not shipped from the factory until two months later! Colt's checked the gun, #521,321 Army Special, now in the collection of Sig Shore, Skokie, Ill. "Our records show this weapon was shipped to Von Lengerke & Antoine, Chicago, on November 16, 1925. It left the factory with blue finish and checkered wood stocks . . . We believe it was not engraved at the time. Since the weapon left Colt's in November of 1925, we are confused as to how it could have been presented to an officer in September of 1925." A possible explanation is that the gun may have been delivered from the VL & A owners, Abercrombie & Fitch, on an emergency order to be presented at some year's-end testimonial police dinner. The engraver is not known, though the work closely resembles Colt "B" grade in style and quality. What makes it unusual is that it was a police award

gun. Awarding revolvers to officers who excel professionally, as in handgun marksmanship, inspires high standards of conduct and skills in the whole department. An engraved presentation firearm is a dignified way for a community to recognize the merits of its law enforcement officers.



Versions of the 17 Javelina range from Winchester high-wall to sleek Mannlicher-stocked sport varmint.



**Sensational 17 Javelina
kills chucks, shocks bear up to
200 yards with no risk of
ricochet, light report and recoil**

By ROBERT M. HYATT

THE 17 JAVELINA



A VARMINT shooter's "dream gun" has focused the eyes of the gun world on Prescott, Arizona. There, two young gunsmiths, Bill Atkinson and Paul Marquart, have completed final tests on a new "wildcat" rifle, which is causing enthusiastic comment wherever gun nuts get together. This rifle is the 17 Javelina, the smallest centerfire

sporting rifle made in America and, possibly, in the world. This baby .17" caliber rifle represents the last word in varmint guns.

The tiny .17 Javelina hurls its 25-grain slug at 3700 feet per second velocity. It will down all small game at 200 yards or better. Jackrabbits have been knocked over at 325 yards. No kick and very little noise make it a prime favorite with the growing number of varmint hunters.

Rifleman seem to fall roughly into three categories: The game hunter wants a rifle that is reasonably accurate, convenient to carry, and delivers a killing punch at game ranges. He is not overly concerned with such factors as "boom" and shoulder slam. Therefore, he is easier to please; but he represents the small group of shooters.

Much more difficult to satisfy is the fast-growing target group which likes to shoot from bench rests, often through scopes. They are concerned primarily with two things—extreme accuracy and minimum recoil. The additional quality of mild report is an important feature and has helped to lure many gal shooters to join these ranks.

Somewhere in between these two groups is the varmint shooter. He has rigid requirements in rifle and cartridge which are peculiar to his type of shooting, and are hardly considered by the advocates of the other types.



A 5-shot group from 17 Javelina on half-inch bullseye at 100 yards measures .256".

The varmint shooter seeks a lightweight rifle firing a small projectile of high velocity that practically disintegrates upon impact, and provides little material to ricochet. Any tendency to ricochet can be a major disadvantage for a varmint cartridge, particularly in heavily populated areas. He wants no bellowing report, blasting the ears off neighbors and creating unfriendly relations between himself and the landowner whose fields and woods he must roam. Bench-rest accuracy, measured in thousandths of an inch, is not essential here, although (Continued on page 54)



Plate at left shows how 17 Javelina cut through $\frac{3}{8}$ " of steel at 50 yards. Cratered hole in $\frac{3}{4}$ " steel plate at right was made by .475 Magnum. Note cartridge comparison.



AMERICA'S GREATEST SHOOTER

YE OLD HUNTER SEZ: SAAMI: SAMPLES ARE ALL MADE UNBELIEVABLE

THE ROYAL ENFIELD

ENFIELD OPPORTUNITY
CALIBER .303
ROYAL ENFIELDS
ONLY \$14.95 UP

Attention Enfield connoisseurs! The small brass stock disc and upper stacking swivel were removed by military directive during World War II.

"THE FINEST RIFLE IN THE WORLD"

COLLECTORS—Order yourself a complete set of all four basic models listed below—save a fortune over what you'd pay elsewhere and have the finest set of superb rifles ever available. All four basic rifles for only \$69.95 when ordered as a set only. A collector's fondest hope.

ONLY \$4.00 EXTRA FOR HAND-PICKED INCREDIBLE SELECTED SPECIMENS!

CAL. .303



No. 1 Mk. V . . . \$19.95!

THE RIFLE DEVELOPED FOR SUPER ACCURACY!

RAREST OF ALL ENFIELDS are these hitherto-unknown experimental No. 1 Mk. V's. Produced in the early 30s, they combine flawless beauty and magnificent manufacture to delight every Enfield and fine rifle lover. Previously a \$100 "Paterson" among Enfields, now while limited supply lasts, \$19.95. A shooter's dream, with the accurate receiver sight.

THE PRIDE OF THE BRITISH ARMY in all wars from 1900s Boer campaign until 1950 in Korea are these beautifully machined true original Mk. III S.M.L.E. rifles. The famed stand-by even today of governments all over the world. 10 rd. magazine and .303 caliber ammo assure perpetual enjoyment. Only \$14.95 in perfect operating condition. (Add \$1.00 for selected walnut stock if available). Original long knife blade bayonet only \$1.45. Leave it to Ye Old Hunter to bring you the best for less. Another top value tremendous bargain.

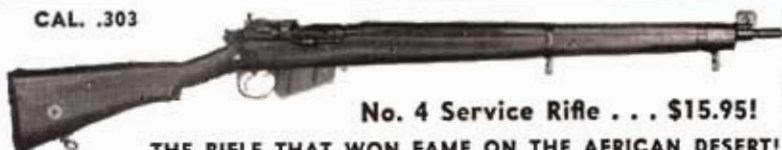
CAL. .303



No. 1 Mk. III . . . \$14.95!

THE RIFLE THAT SAVED THE BRITISH ARMY!

CAL. .303



No. 4 Service Rifle . . . \$15.95!

THE RIFLE THAT WON FAME ON THE AFRICAN DESERT!

BRITAIN'S BEST! Her latest and finest Enfield Service rifle, the No. 4, incorporating all improvements and changes of 50 years of service requirements. Manufactured as late as 1955! Still standard in entire British Commonwealth and many other nations. Proudly in service from Buckingham Palace to Kuala Lumpur! Available now from Ye Old Hunter at only \$15.95 with beech stock. (Add \$1.00 for selected English walnut stock if available.) Original No. 4 bayonet only \$1.00 when ordered with rifle—worth easy twice the price, but yours today at only \$15.95.

CAL. .303



No. 5 Jungle Carbine . . . \$24.95!

THE RIFLE DESIGNED FOR JUNGLE IN-FIGHTING!

THE ULTIMATE IN ENFIELDS! Yes, you may have seen these listed at over \$80 but now Ye Old Hunter brings the famed .303 JUNGLE CARBINE Enfield No. 5 to you at a price ANYONE can afford—only \$24.95! Yes, it's true, amazing condition Jungle Carbine in Cal. .303 ready for instant use as an ideal light weight sporter (7 lbs.), kit gun, big bore plinker, or valuable collector item. Specially developed in WW II as a featherweight hard hitting combat carbine for British Jungle Armies of Asia and Africa.

"The Rifle You Cannot Afford NOT to Buy." WITHOUT DOUBT the most shattering rifle opportunity ever to befall American shooters. An exclusive deal with England permits Ye Old Hunter to offer these superb 10 shot bolt action Enfield repeating rifles at far less than the price of even a .22 American sporter. They all take standard U.S. sporting .303 Ammo available everywhere. Most models with 5-gr. barrels! Never before such magnificent guns at such bargain prices. Get the Greatest American Gun Bargain from Ye Old Hunter! Truly you will never again have such an unbelievable opportunity.

ALL ENFIELDS ARE IN FINE SERVICEABLE CONDITION!

AMMO HERE IT IS! Leave it to Ye Old Hunter to bring gleaming perfect fresh stock .303 British ball 170 gr. magnificent issue loads to you at only \$7.50 per 100! Stock up now to shoot those sensational bargain Royal Enfields for almost nothing! Why pay more elsewhere! Shipped Soonest. Order NOW!

NOW! THE RARE, RARE, RARE Lee-Enfield Mk. II (1892 Model)



CAL. .303 Only \$24.95!

It took Ye Old Hunter to find the last of the famous Lee-Enfields of Boer War fame. Complete with the unique 9 Groove rifling, later used on many Japanese rifles, and first of the British 10 Shot bolt actions. Wonderfully preserved, with bluing almost intact and all with Walnut stocks. Only \$24.95.

COLLECTOR'S SPECIAL!!

Very limited supply of both models—this could be first and last offering.

ALSO—The Ultra Rare LEE-ENFIELD Mk. I*



CAL. .303 Only \$19.95!

Developed during the Boer War from the Lee-Enfield model, this was the first Enfield charger loader, and the first of the Enfield 5 Groove barrels for cordite loads. This was developed to offset the clip loading Mausers used so devastatingly by the Boers. Later issued to territorials and Navy, so S.M.L.E.s could be used by overseas troops. Extremely well preserved, only \$19.95.

ACCESSORIES

Steel Bayonet with Scabbard . . . \$1.99
Rare Swedish Elkish leather flexible slings50c

AMMUNITION

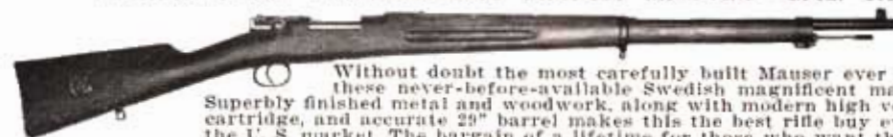
Original, superb quality Cal. 6.5 Swedish issue ammunition only \$1.50 per 100 rounds. (Norma hunting loads available everywhere.)

SELECT SWEDISH SERVICE SPECIMENS SWEDISH KAR 38 MAUSER—CAL. 6.5MM ONLY \$27.50!!



Very latest model Swedish service Mauser, the advanced Kar 38 in very good to better condition throughout. World renowned Swedish quality and precision make this the best possible sporting rifle investment, either in its fine 6.5MM Cal. with 24" barrel, or readily converted to other popular calibers. 6.5MM issue ammunition only \$7.50 per 100 rounds.

MAGNIFICENT SWEDISH M96 MATCH MAUSER—CAL. 6.5MM



Without doubt the most carefully built Mauser ever produced are these never-before-available Swedish magnificent match Mausers. Superbly finished metal and woodwork, along with modern high velocity 6.5MM cartridge, and accurate 29" barrel makes this the best rifle buy ever placed on the U. S. market. The bargain of a lifetime for those who want the very finest.

Special Brochure: "SWEDISH SMALL ARMS". Historical, informative. FREE with each purchase.

ONLY \$22.50!!

AMERICA'S BIGGEST ARMS HOUSE — AMERICA'S LOWEST PRICES! NO CONNECTION WITH NO OTHER HUNTER NOWHERE—NO HOW! ALEXANDRIA, VA., GUN CAPITAL OF AMERICA!

REGISTERED DEALERS: Write on your

HUNTERS LODGE • 20

YE OLD HUNTER

R'S BARGAINS

GNIFICENT INVESTMENTS

SSS — SERVICE SWEEPSTAKES SPECIAL

F.N. Belgium Semi-Automatic Rifle!



CAL. 8MM MAUSER... ONLY \$69.50

(Collectors: Note Arabic Egyptian markings)

Ye Old Hunter illustrates all weapons by actual unretouched photographs so you can see how they REALLY look!

INCREDIBLE AMMO BARGAINS

MINIMUM ORDER 100 ROUNDS. All prices below \$100 rounds. All ammo must be shipped **FREEPRESS** COLLECT MINIMUM ORDER 100 ROUNDS. Sensational New sensational prices! Order now and save!

6.5MM JAPANESE ISSUE.....\$7.50

At last! The first and only offering of this supremely desirable Japanese rifle and cartridge brought to the U.S. by Ye Old Hunter. True, it is a part of a huge initial oriental purchase by Ye Old Hunter, a black belt holder in ammo bargains. 138 gr. FP brass cases!!

6.5MM SWEDISH MAUSER.....\$7.50

Here it comes! The first 6.5mm rifle cartridge ever developed and produced by the ever-lovin' Swedes to standards unsurpassed anywhere on the earth. A real Swedish by any standards. 168 grain bullet, superb brass cases assure reloading with proper components for years to come!

6.5MM ITALIAN IN CLIPS.....\$5.50

Superb appearing original 6.5mm Italian ball ammo for all those imported rifles. Packed in original 6 rd. clips ready to use in all those Italian 6.5 mm rifles and cartridges. Cheapest price ever offered for this magnificent appearing cartridges. Components alone worth double!

7MM MAUSER (WIN. CTG. CO.) \$2.50

Gorgeous original Winchester 7mm commercial export ammo. In original Winchester 150 GR. P. Bullets. Perfect cracked neck to enable tool-less bullet pull and effort; less salvage. Order this "Pullin Ammo" sensation today!

7.35 MM ITALIAN IN CLIPS.....\$6.00

Finest quality recent date issue ball ammo in ORIGINAL 6 rd. CLIPS at the lowest price ever offered. Others sell the clips alone for more than we sell the ammo loaded in them. 128-gr. original issue ball round. The new 'short cartridges' and still among the finest.

7.62MM RUSSIAN RIFLE.....\$7.50

Choice lot of Captured Communist cartridges picked up near alleged spunk remains in California by Ye Old Hunter—the greatest globe grinder of dem. all. 150 GR. FP issue loads. Order now! Don't put it off another day!

.30 CALIBER M1 CARBINE.....\$5.00

Ye Old Hunter left no stone unturned to bring you this gleaming late date ammunition. Manufactured in the mid 40's. It literally sparkles as you lift the lid on these shiny brass cases. No further need to inquire. This is a hand with an eager-beaver crew ready to rush it off.

.30-06 U.S. COMMERCIAL.....\$6.00

Sensational low price on these superbly intact, delightfully mellowed Winchester 150 GR. P. Bullets. Perfectly flawlessly preserved brass cases, 20 rd. commercial original boxes. Manufactured in roaring 20's and 30's. To delight the expert's 50's and 60's and their unbelievable economy and discolored hues; Now!!!

U.S. .30 (.30-40 CALIBER) KRAE.....\$5.50

Leave it to Ye Old Hunter to return triumphantly with this greatest large rifle cartridge bargain in America today. Beautiful original Communist U. S. KRAE 150 GR. FP loads at far less than even reloading components costs. Supply not inexhaustible, so better order now to be sure! Manufactured by Winchester. Etc.

8MM GERMAN MAUSER ISSUE.....\$7.50

Beautiful, crisp, 8MM Ball ammunition, all brass cases and boxer (reloadable) type primers. True 0.323 bullets all with superb accuracy. This is a must for collectors and complete M.C. cartridges. Order today and shoot your favorite Mauser at this shattering price, for stocks of this select ammo cannot last forever. A shooting bargain.

CALIBER .303 BRITISH.....\$7.50

HERE IT IS! Leave it to Ye Old Hunter to bring gleaming perfect fresh stock .303 British ball 170 gr. magnum issue loads to you at this shattering price. Order now to shoot those sensational bargain Royal Enfields for almost nothing! All brass fully reloadable cases! This sparkling ammunition on hand for immediate delivery.

9MM LUGER (PARABELLUM).....\$5.00

At last! Your favorite pistol cartridge at an absolutely unheard-of bargain price. Fine original assorted issue load and this world's most famous cartridge to stand through those no-longer-expensive-to-shoot 9mm Lugers, Brownings, Radoms, Mausers, or what-have-you, NOW!!!

11MM MAUSER RIFLE "Big 11" \$10.00

Don't be trapped into paying a fortune elsewhere for this magnificent German Mauser issue load. Standard 388 grain lead bullet makes ideal sporting load for those original Model 71/84 Mauser rifles. You've been stealing of late. Ammo almost twice Bismark's finger prints. It's so old, but we have never had a misfire to date so order today while the getting's good! Now!

.43 (11MM) REMINGTON.....\$6.00

Who else but Ye Old Hunter would have found this treasure? Original Remington UMC loads in original boxes—275 gr. lead bullet makes superb target or hunting round for those shattering .43 Remington rolling blocks. Appears magnificent—shootability unlimited. Guaranteed. Worth twice this price for components alone!

.44-40 WINCHESTER.....\$5.00

Bare original 217 Gr. Black Powder loads in original Winchester boxes. Function to all readers. Even as well as those choice old Colts and Winchester. Huge new shipment permits this unprecedented low BARGAIN.

.45-70 GOVERNMENT MODEL.....\$6.00

Ye Old Hunter now re-offers the famous sell-out of last winter—best round sale ever made in the United States. These are original 405-gr. lead. Black powder loads. In original sealed Winchester boxes. Ready for collector and reloaders. (save, save, save) as most primers intend with perfect symmetry and complete accuracy. At this price you are always AHEAD. AHEAD. AHEAD. AHEAD.

.45 (ACP) COLT AUTOMATIC.....\$5.00

Unbelievable discovery of enormous underground supply permits this astonishing bargain for all you .45 shooters. All .45's manufactured late date and in perfect condition. (save, save, save) as most primers intend with perfect symmetry and complete accuracy. At this price you are always AHEAD. AHEAD. AHEAD. AHEAD.

"WORLD'S BIGGEST GUN HOUSE."

"WORLD'S LOWEST PRICES."

Manufactured at the ultra-modern F. N. Plant in Belgium for Egyptian export, this fine, precise smooth-handling semi-automatic combines the most modern production methods with the requirement for rigorous front line assault functioning. VERY GOOD condition throughout, typical F. N. quality, all milled parts, 23 1/2" 4-gr. bbl., and standard 8mm caliber plus the extremely low price of \$69.50, make this the most sought after semi-automatic on the market today! 8mm Mauser ball ammunition in stock at only \$7.50 per 100 rounds. Limited production; limited supply. A collector's must. Order today!

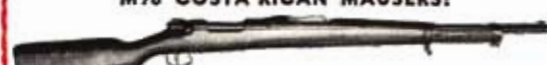
ORIGINAL G 33/40 MAUSER CARBINES



CAL. 8MM MAUSER... ONLY \$44.95!

8mm Mauser Featherweight Carbine! Yes, we know that it will be almost too fantastic to believe, but again, Ye Old Hunter has made a group that will benefit all devotees of fine guns. Original G 33/40 8mm Mauser featherweight carbines, the joy of the German Mountain Troops. Very limited supply. Don't lose out on this magnificent bargain. Good condition! Supply Not Unlimited! Order today and save!

M98 COSTA RICAN MAUSERS!



CAL. 7MM MAUSER... ONLY \$19.95!

Original Oberndorf M98 Mausers! At last! And, unbelievable as it seems only \$19.95! Yes, Ye Old Hunter's done it again! He's swapped the Costa Ricans out of their beautiful original Oberndorf Mausers and now brings them to you for almost nothing! Think of it, then buy NOW! Only one grade, an excellent example of NRA complete and fair and only one price, a real unbelievably low \$19.95!!

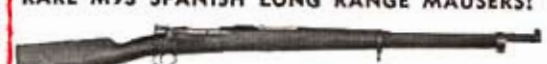
GERMAN MODEL 98 "BOLTLESS" MAUSERS



CAL. 8MM MAUSER... ONLY \$17.95!

They said it couldn't be done, but lo and behold it to Ye Old Hunter to locate this hitherto hidden cache of genuine 98 Mausers, all with bolts thoughtfully removed. Ze find of 20 century for real foresight, who carefully attached away a Mauser bolt. P. N. Mauser screw-threading bolts will interchange and are readily obtainable. A because of Mauser components. All milled parts—barrels, receivers, stocks, trigger guards, magazines, etc. Brand new Mauser military live-leather slings \$1.95. Value compounded. Only \$17.95 today!

RARE M93 SPANISH LONG RANGE MAUSERS!



CAL. 7MM MAUSER... ONLY \$9.95!

YE OLD HUNTER counted it the luckiest day of his life when this treasure trove of rare model 93 Spanish Mauser deadly long range rifles fell into his hands with the surrender of a jaguar group of nonpareil rebels. These lovely rifles are fortunately without bolts, thus avoiding all headache problem! Action alone worth \$20.00!!

ORIGINAL MAUSER MODEL 71/84 "BIG 11"



CAL. 11MM MAUSER... ONLY \$9.95!

The FIND of the century—the BUY of the century. Complete in every detail and fully functional down to the clouds of dust which rise into the air with every stroke on the bolt. Wins it, speaks, there is thunder in the hills. There is no telling what condition you may attain from the hours spent joyfully cleaning up these horrid specimens, with luck, NRA "Fair Condition" is possible! Only \$9.95, complete!!!!

RARE RUSTY RUSSIAN ROMANOFF RIFLES!!



CAL. .30 (7.62MM) ... ONLY \$8.95!

Ye Old Hunter made a cash deal recently in Ulan Bator for these original rusty Russian Romanoff rifles which have been calving deviants for almost three generations—yet they are still amazingly light and complete and can be pleasantly cleaned up to reach the best pretensions of the NRA condition grades! Original 7.62MM (.30) sporting ammo available everywhere so get yourself a superb repeating sporter or your captured collectors item at world's lowest priced Spunk! Remember—this is your rifle too! Cheaper than in Moscow! Caviar aroma exudes from the stocks when scraped.

RED RUSSIAN REPEATING RIFLES "MN"

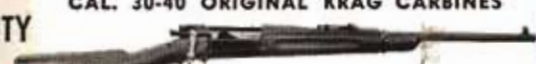


CAL. 7.62MM (.30) ... ONLY \$9.95!

These were specially selected before being offered as ransom by a group of formerly fanatical deviants. Magnificently fair condition throughout—ready for years of faithful capitalist service. Take standard 7.62MM (.30) ammo, as well as Ye Old Hunter's GI Communist Cartridges at only \$7.50 per 100.

OLD HUNTER PUBLICATIONS: send \$5 for story of America's most famed and most biggest Arma Mercenary. Send \$6 for 1st edition colored printing of America's amazing new automatic rifle—the Armatrice AR-10—a world first from Ye Old Hunter's CAPITAL OF THE WORLD, World's Biggest Arms House—World's Lowest Prices. Ship from the East and Save, Save, Save, Save, Save, Save, Save! CANADIAN BUYERS: Write direct to our Canadian Distributor, P. O. Box 628, Peterboro, Ontario. Add 20% to above prices when ordering!

CAL. 30-40 ORIGINAL KRAE CARBINES



ONLY \$24.95!

At last they're here! Ye Old Hunter left no stone unturned in bringing to his beloved followers the ultra-desirable Krag carbine—yes, indeed, this here just-arrived gun is the smoothest bolt action carbine in the world and can be yours for the unheard of low price of \$24.95. The cavalryman's most dependable friend—some smell of horses!!!

ORIGINAL U.S. KRAE "LONG TOM" RIFLES



CAL. 30-40 ... ONLY \$16.95!

At last! The smoothest and most loved U. S. bolt action ever made available at a price anyone can afford! Tried and true, and worn to prove it, these original U. S. Krag 30-40 "Long Toms" are yours. NOW, complete mechanically and worn as tight as you'd want and fortunately, without upper hand guards for only \$16.95! Order today!

NORWAY'S MOUNTAIN MASTERPIECE!



Original Norwegian Krag Carbine, Cal. 6.5mm Only \$19.95!

No, it had to come! Ye Old Hunter was shocked at the crazy prices others are asking for this fabulous precision Krag carbine, so fought his way up Oslo (and closed a deal to benefit all American shooters) for only \$19.95! These rifles have been prized by Scandinavian shooters for generations and were the key to the Norwegian resistance forces during World War II. Now Ye Old Hunter brings this magnificent Krag carbine to American shooters at last at world's lowest prices. Don't confuse this with common Norwegian Krag long rifles, which you may see elsewhere. All rifles are complete and light and with desirable "salt and pepper" bore which means that when the salt did not fit the pepper did, order today as this bargain just cannot last! Original issue Norwegian Krag Ammo 6.5mm only \$7.50 per 100. Cheapest price in U.S.A.!! Ye Old Hunter is all call!

AUSTRIAN MANNLICHER POLICE CARBINES!



Cal. 8MM Mauser Only \$19.88! Fastest Bolt Action in the World!

Another bargain from Ostmark! Ye Old Hunter talked the real deal! Austria out of these beautiful light weight 5 shot 24" bbl. police carbines—a rare lot available in standard 8MM (.8 x 57) Mauser caliber—no sporting ammo available elsewhere in U. S. or Germany! GI Ammo straight from Ye Old Hunter for only \$7.50 per C. Magazine modified for use without tip loading. Ready to go, light and clean, and only \$19.88! Ach Du Lieber. What a masterpiece!

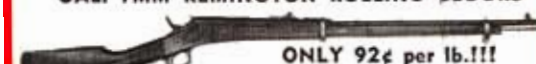
GARRIBALDI'S GREATEST!



Only \$9.95 complete with 100 rds of original ammo!

Yes, this impossibly low price is true! This amazingly machined and fantastically inaccurate six-shot repeating GARRIBALDI'S GREATEST can be bought for ONLY \$9.95 COMPLETE with one hundred rounds of ammo in original clips. This is the rifle that COULD HAVE WON THE KOREAN WAR if the Chinese had been unkind! Enjoy the greatest and greatest big bore shooting of your life with this blood condition Garibaldi's Greatest Repeater! Now!

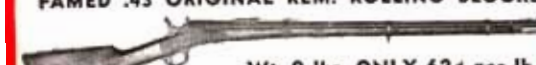
PANCHO VILLA SPECIALS CAL. 7MM REMINGTON ROLLING BLOCKS



ONLY 92¢ per lb.!!! TOTAL PRICE \$8.28!

Yes, here it is, the original "pus crank condition" 7mm Remington. You can almost see the finger prints which the former fanatical owners pressed into the wood as they realized the jig was up, Nobody has Remingtons like these! 1 lb. of the century, only \$8.28, pre-oiled and ready to clean up. The buy of the century, only \$8.28. Also some original "Long Tooth", or ultra rare "Short Tooth" bayonets. These historical specimens, only \$1.95 each. A Treasure.

FAMED .43 ORIGINAL REM. ROLLING BLOCKS



Wt. 9 lbs. ONLY 62¢ per lb. TOTAL PRICE ONLY \$5.58!

You can't buy prime hamburger at this price. Condition of all rifles is "Gun crank special", meaning that the action is clearly visible through the rust and you can see light through the bore. Little of that old elbow grease will clean this fantastic bargain to NRA poor condition. Cracked with component in the hands of fanatical Latin hands. It is truly a precedent shattering bargain at only \$5.58, shipped pre-oiled. Action alone worth this giveaway price. A gun cranks dream. Adorn this historical relic with an original bayonet, only \$1.95, when ordered with this rifle. Supply not inexhaustible.

official letterhead for new sensational discount lists.

10 S. Union St. • Alexandria 2, Va.

CHAMOIS CLOTH SHIRTS

Perfect for outdoors!

Looks & feels like chamois leather



Warm, well-tailored and tough, for hunting or fishing. Sanforized and gets softer with each washing.

Sizes: 14-18, half sizes.

Colors: Tan or Scarlet

\$5.95

POSTPAID

Send for free Gokey Sportsman's Catalog

of fine boots, clothing & equipment.

GOKEY CO. Dept. G
St. Paul 1, Minn.

Pachmayr HAND GUN CASES

If you like to shoot and have fine hand-guns, then you'll certainly want to have one of these deluxe Pachmayr Gun Cases. Rack holds 4 or 5 guns with space for shooting accessories and spotting scope. Keeps guns always ready for that spur-of-the-moment trip to your favorite range. Cases can be locked as a precautionary safety measure. Of rugged lightweight construction, beautifully finished in simulated alligator outside, flock lined inside. Available with or without back door. See your dealer or write for complete information.

FREE! - Send for beautiful illustrated catalog of Pachmayr Gun Accessories.

PACHMAYR GUN WORKS, INC., Dept. G-12
1220 South Grand Avenue, Los Angeles 15, California



GREAT GUNS!

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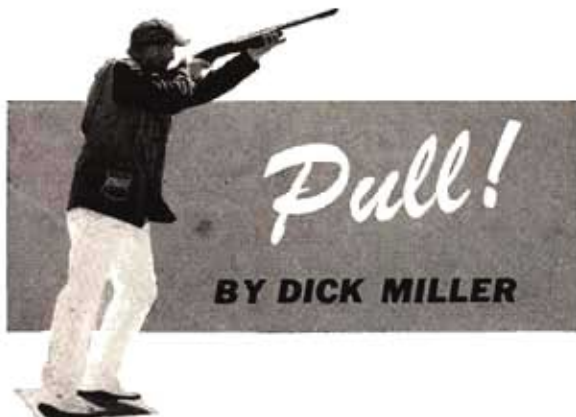
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BY DICK MILLER

"WE WUZ ROBBED" is the standard lament around a trap or skeet club when the local sports pages hit the street after an event at the club. Shooters feel that larceny has been done because their well-staged trap or skeet match rated not more than one paragraph on the sport page, and that paragraph is more often than not "out in left field" between an account of a tiddly-winks match and an outing of a bird-watcher's club. (This is not to belittle bird watchers and tiddly-winks players, who are good fellows, even if they do enjoy a better press than shooters.)

When the paragraph or two reporting the shoot does appear in a newspaper, chances are that some very non-shooting terms will have been used to describe events in the program. Like, for example, the item in an Indianapolis newspaper crediting Mrs. Edna Stark with breaking 196 clay targets from the two-hundred yard line. Now, Edna is a right good lady trapshooter, but, 200 yards is a pretty far piece to break a clay target with a shotgun.

This little item didn't further the cause of trapshooting in Indianapolis, although I'll admit it should have. Had I lived in Indianapolis, I would have presented myself at the club the very next Sunday, to see this unusually fine bit of shotgun marksmanship. I might even have tried to buy the shotgun which would shatter clay targets, or any kind of target, at a range of 200 yards.

Caption writers have been known to goof, too, when writing heads for shooting stories. Witness the Chicago newspaper which credited a winner at the ATA's Grand American tournament of trapshooting with a *skeet* championship.

And—the saddest part of this tale is that shooting's lousy press can be laid smack dab on the doorstep of the gun clubs.

My new job brings me into close contact with many of the very sports and outdoor

writers who are verbally lambasted for failing to give coverage to shooting events. Some of my fellow shooters will be surprised to learn that most sport and outdoor writers are not ulcer-ridden, dour, savagely snarling characters, determined to keep trap and skeet stories from cluttering up their precious pages. They are in reality good fellows, with their own problems to solve.

Asking most sports writers to write a story on a skeet or trap, would be like asking the writer of this column to write a story on atomic energy. And he would approach the task with about as much enthusiasm as I would have for writing the bit on something about which I know next to nothing. If you mention skeet to many sports writers, the guy will wonder whether you eat it, bat it, or kick it. When the same writer is assigned to cover a major athletic event, he will be given charts covering the players. Those charts will tell him the man's age, home town, weight, height, parent's names, tastes in girls, and what he had for breakfast, and what the guy thinks about subjects ranging from hopscotch to Freud. If the game is a professional game, the plays will probably be called in advance for him. Does he get this kind of cooperation from a gun club? Does he even get invited out to the club to burn up a few boxes of shells? Not often!

If a gun club has not made sure that the local sports staff has been introduced to the joys of trap and skeet shooting, that gun club should not in good conscience moan and groan when the writer gives them less than a half-page covering the event. Don't expect the sports staffer to personally cover your shooting event. Contrary to an opinion generally held, sports-writing jobs are not cushy jobs awarded the publisher's favorite nephew, or son-in-law. The sports staffer or outdoor writer is most often a working newspaper man, who carries out his editor's as-

(Continued on page 49)

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Raymon T. Roush, Hoagland, Indiana

(Continued from page 21)

His first interest was photography. Many local farms have large panoramic views of their farmstead done by Edwin. He made some of his own photographic equipment. In Autumn he'd travel to fairs and take pictures.

The story of Edwin Halvorson the gunsmith is remarkable, but the story of Edwin Halvorson the man is an inspiration. His devotion to his wife and little daughter, the material success and esteem of his friends and customers, his affection for his parents while they lived was exemplary. Some years back, while his mother was still alive but quite old, a New York radio show, the "Hobby Lobby," wanted Edwin to make a personal appearance on their program. They offered to fly him to New York and back. The gunsmith was willing to go but his mother, who thought flying was for the birds, began to worry about the trip. Out of respect for her, Edwin cancelled the appearance. Perhaps he did not realize the value of publicity. But he was not one to trade on what he did not have, but only on what he had—a great skill for gunsmithing developed in spite of the impossible hardship of not having hands. It took the man to make the gunsmith under those odds.

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IT AIN'T THE RIFLE—IT'S YOU!

(Continued from page 26)

countless thousands of shots that miss or wound game every hunting season: either he didn't know how to shoot, or he was too excited to know where he was shooting—or both. Probably both. It's not the guns that cause those misses; it's the shooters.

I've got a stock answer to the question, "What's your favorite all-around rifle?" It's the rifle I have in my hands when I see the game. And when somebody asks me, "Will a such-and-such-caliber rifle kill a seven-ringed wampus across a wide canyon?" my answer is, "Sure, if you can shoot it well enough." And if you can't shoot it, a .600 H & H double won't kill a rabbit.

If you're the Mr. Average we mentioned a while ago, you're a business man of one sort

or another, spending 99 per cent of your time earning a living and maybe only two or three days a year in the woods. Unless target shooting is your spare-time sport, you're not exactly a Dead-eye Dick with a rifle. And even if you're an Expert rifleman, seeing big game close up is not an everyday experience. You need, first, to know how well you can shoot with the rifle you're going to use in the woods. You need, second, to find out how your shooting skill is going to be affected by hunting excitement—by what hunters call "buck fever."

The first is easy. I don't say that a box of cartridges and a couple of hours target practice will make you a marksman; but it will at least make you a little more familiar with the gun, and it will show you how good (or bad) you are and thereby enable you to resolve not to shoot except within the range of your ability... But that isn't going to help much if you go hog-wild at the sight of game and forget all you've learned and all you've resolved and start pumping lead all over the landscape! Make, and keep, another resolution: that you won't shoot until you've fairly weighed your own excitement and can control it.

Every hunter tells the classic story about the tenderfoot who pointed his rifle in the general direction of the first buck he saw—and pumped seven fat, unfired cartridges through the action without once remembering to pull the trigger. Most of us, in fact, insist that we were there when it happened. As a matter of fact, it probably did happen, and more than once. That's buck fever. And we all have it.

I'll not soon forget a certain regal buck I had under my sights on one memorable occasion. He was a real prize; a six- or twelve-pointer, depending on whether you count 'em on one side or both; a big beast, fat and heavy. It was one of those shots you dream of: a standing target, not more than 25 yards through a slight morning fog. I took my shot and saw his head swing toward me. I fired again, and he pointed himself for take-off. A third shot, and he was off like a scared goose. It took me a long time to convince myself that all three shots were clean misses.

That's a time when I, too, was ready to blame the rifle. Back at camp, Jack Blower, an old meat-hunter for the railroad construction gangs, took that same rifle and drove a nail with one shot, at over thirty feet. He said, "The gun's all right. You had your sights full of antlers instead of meat."

I know, now, what Jack meant. I was so impressed with the size and beauty of that buck that I held high above him. Down in the Georgia woods, years later, I showed a Mr. Average where his three loads of buckshot, aimed at a medium-sized whitetail, had scored the brush at least six feet above ground level. The man got red, but he gave me an honest answer. He said, "He looked that big to me!" I knew just what he meant.

If you miss, it ain't the rifle; it's you. After all, a .22 will kill a grizzly, if you hit him right. And most of the commonly accredited big game calibers fall into one of two categories: military weapons (such as the .30-06, the .303, the 7 mm Mauser, the 8 mm Mannlicher) specifically designed to

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If you insist on seeing it in print or on mathematical evidence, get out a ballistics table and compare the nine calibers mentioned in the preceding paragraph. Compare them for bullet weight, velocity, energy, mid-range trajectory, striking energy at 100 yards, at 200, at 500, or whatever. You can learn a lot from these figures, some of it surprising. You'll learn, for example, that there is only .2 of an inch of overall difference in the mid-range trajectory height of these nine bullets at 100 yards. And if you have done that preliminary target practice you will know that, at 100 yards (which is as far as you, or most of us, should ever shoot—and then only at the best of targets!)—.2 of an inch is an infinitesimal fraction of your own grouping ability. If you can lay five shots in a 5-inch circle at 100 yards, even from rest, you're not Mr. Average at all; you're practically an expert!

I've used practically every common caliber made since 1894. With them, I've killed black and grizzly bear, Mountain sheep, goat, mule deer, white tail, moose, elk, antelope, cougars, wolves, coyotes, antelope—not to mention rabbits, squirrels, and assorted varmints. I've never found a gun that wouldn't kill, if I held it properly.

I don't recommend it, but I know an Indian guide who has killed several grizzlies, uncounted deer, elk, moose, coyotes, and more grouse than you ever saw, with a .22 rifle. He doesn't leave wounded animals in the woods, either. You see, he has spent 65 years in the big game country. He can see 'em with his naked eye better than I can with binoculars; he can move on dry leaves or crusty snow so silently you can't hear him; he can stalk within 20 feet of an animal that would spook from me at 50 yards; and—he can shoot. Animals don't excite him; they're his everyday acquaintances. He's a hunter.

You can't hunt like that, nor can I. I don't say that you should try. I do say that you can, and should, learn a little something about your rifle and your ability with it before you point it at a game animal; and that you should apply the same sort of judgment to your hunting that you'd apply to a minor business decision. You wouldn't make that decision while your heart was pumping and your nerves jumping under the stress of some sudden excitement. Don't shoot then, either. Like as not, the game will wait until you cool off a little—and if you realize your condition and put your mind on it, you can cool off pretty quickly. If he doesn't wait—well, you saw him; what's to prevent your seeing another?

Don't be ashamed of buck fever. If I had a dollar for every covey of quail I've flushed I wouldn't be rich but I'd be richer—yet a covey rise never fails to send the adrenalin surging through my system, jangling my nerves and tensing my muscles. I've learned to expect it and, more or less, to control it.

And if you do these things, you won't be such a bad hunter. Oh, the guides and the salty old-timers may chuckle a little at your bright new gear and your city pallor, but they'll respect you a lot more than they will the guy who sprays lead and damns his rifle. You'll like yourself better, too, when the hunt is over. You may even bring home a trophy!

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DOVES DEFLATE YOUR EGO

(Continued from page 19)

expect to find nothing but sage-hens or antelope.

This wide distribution is another reason for the dove's popularity. However, in some states he's still protected, and almost every year there are fresh attempts to place them on the no-shooting list in other states. During the springtime they sit around cooing in the orchards and appearing very innocent or, perhaps, peck gravel in your backyard. These friendly gestures have fostered much of the "whoop and holler" against dove hunting. Despite the many charming qualities of the mourners, they're A-1 game birds.

When a touch of chill creeps into the September nights, the doves gather in great flocks around choice feeding grounds. They seem to shed their friendly cloak automatically and grow as spooky as any of the scattergunner's favorites. I've been around fields where the shooting was hot and heavy for several days. Then the wary doves would come sailing over the ring of eager hunters high as any gun-shy honkers. Right over the middle of the open fields, the doves would pitch straight down and begin feeding.

I've found that almost anybody who can drop doves with fair regularity will hold their own in most types of wing shooting. On tackling geese or pheasants, I have run up strings that made me think I was pretty good. Then, when next year's dove season would roll around, my ego would get knocked for a loop.

Not too many years ago I met a fellow who was really a fine pheasant shot. He was pretty cocky about his ability on ring-necks, but never tried anything else. One sizzling September afternoon I finally talked him into a dove shoot. I picked out a stubble field where I knew the speedsters were working.

We each made ourselves comfortable on a knoll at the edge of the field. The doves were resting in the oaks on a ridge behind us. I knew when they came twisting through the trees at our backs we weren't going to have any picnic. Late in the afternoon the streamlined birds began moving into the wheat field. A loner came whistling over the oaks behind my partner. He blasted away with both barrels of his neat double. The dove never even swerved.

The next hour was broken by blasts of his 16 gauge followed by blasts almost equally as loud of cuss words. My inexperienced companion simply wasn't leading his targets far enough. I failed to do so hot myself, but he grew hotter under the collar with every miss. I warned him that you rarely ever shoot in front of a dove.

Finally, a single came barreling over the trees—really carrying the mail first class. He was at least 50 yards high. My friend swung hard and pulled the trigger. A single pellet found the dove's head, and it came spinning to the sun-baked earth.

"I know when I've had my share of luck,"

admitted my companion. He walked over, picked his bird up and headed for home. As far as I know, he's never been dove hunting since. Unfortunately, from the dove's viewpoint anyway, most nimrods don't take their misses so seriously. If they did, there wouldn't be many dove hunters!

Because the mourners are fired at under just about every condition and position possible, no matter what type of gun a hunter claims is tops, others will give him a hassle about his choice. Most of my work is pass shooting on high fliers coming in to feed. For this action I definitely favor the same gun I use for ducks—a full-choke with 30-inch barrels. Fed 7½ shot, the pattern spreads out effectively at just about the 25 or 30 yard range that I want it to. No matter what kind of scattergun you select, you can probably learn something by firing various-sized shot at different ranges and studying the resulting patterns.

I've shot these birds in stubble fields grown over with tangles of tarweed or thistles where you jumped your doves at short range. A quail barrel would fill the bill nicely in such cover, but if you don't own two guns or have a double, the full-choke will still do. You just have to learn to hold your horses until the birds get out there 30 or 40 yards.

At water-holes the gunner bumps into still a different proposition. Here, when the flights really get underway, you can find just about any type of shot known and a few new ones the mourning doves have invented themselves. Many water-hole shooters choose a double with a full-choke tube and an improved cylinder for the closer chances.

I don't think much of dove hunting with shotguns bored for close-range skeet work, although there is no doubt they would give you the biggest patterns at extremely close range. Doves are fragile and rather easily killed, but you get too many tempting chances at extreme ranges. Dusted birds don't survive very often, and no nimrod likes to lose cripples.

Your attitude towards dove hunting has a lot to do with your choice of arms. I have a friend who uses nothing but a .410. The weight of his bag means nothing to him. He enjoys getting away from the city in which he works. The smells and sights of the early fall fields are enough reward for him. A crack shot, every dove he centers in the smaller patterns adds that much extra to a junket that's a success even if he never fires a shot.

Despite the heavy annual dove kill, these feathered bullets hold up better under pressure than most of our birds. Undoubtedly, the chief reason for this is their nesting habits. Only two young are reared at a time on a flimsy stick nest, but they set up house-keeping early in the spring and continue turning out clutches every month even into the fall. I've found females still setting on eggs at the tail-end of September.

Regardless of which side of the fence you sit on when it comes to dove shooting, I know one thing for sure. When these birds begin jetting from one field to another, they leave many a frustrated scattergunner mumbling in his beard. And somewhere out there in the heat and dust you're going to find me—mumbling just as loud as the rest!

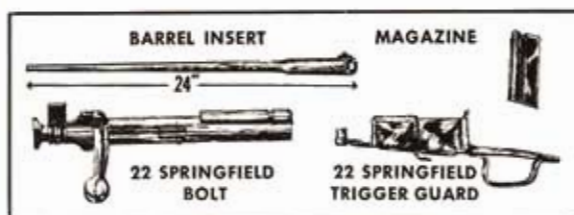
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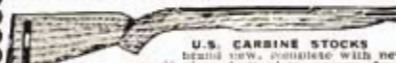
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(Continued from page 29)



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similar habits, so the same hunting methods apply to both.

These squirrels feed principally on hickory nuts, beech mast, most varieties of acorns, hazelnuts, pecans, walnuts, dogwood berries, haws, blackgum seed, field corn, and various other similar food items. The items specifically named are the things which squirrels dine on principally.

Most squirrel hunting seasons are open during the fall and early winter, with a few (especially in the south) opening late in the summer. During normal weather (in the fall), the best hours of the day for squirrel hunting are from sunup until about mid-morning, and from mid-afternoon until just before sundown. Hard rains can upset the timing of squirrel feeding and frolicking activities, and so can cold weather late in the season after the leaves get off the trees. On cold sunny days, the fuzzytails do most of their stirring during the middle part of the day, mainly because it is warmer and more comfortable then.

Real wild gray and fox squirrels found in the backwoods are far different from their town and city park cousins. Those found out in the wild are smart, shy, and thoroughly alert little creatures that will "skeeedaddle" like a blue streak for the nearest den hole at the slightest sight or sound of danger. They seem to hear extremely well and to see even better and these faculties coupled with their swiftness and size, make them anything but pushovers for hunters. Take a tip from me and never

wear any white garment into the woods on a squirrel hunt. Most other colors are all right during the fall when the leaves and other foliage are of many shades anyway, but white is out. It is a warning signal which squirrel eyes spot long before the hunter can see the squirrel.

Still hunting is simply a system of finding a good squirrel feeding spot, slipping back to the place later with a good scope-sighted .22 rifle, and sitting and waiting for the squirrels to come in to feed. Always examine the squirrel cuttings in the feeding nooks to make sure that they are fresh. If they are, you've found a good still hunting location.

In some parts of the country, squirrel-treering dogs still play an important part in squirrel hunting. A good squirrel-treering dog may be of almost any breed or strain, although those which are part treeing-type hound and part "just dog" seem to make the best ones. Many dogs just naturally take up squirrel hunting and treering on their own, by being hunted in good squirrel territory.

Dog hunters usually hunt in pairs. And squirrel hunting with dogs is usually better after most of the leaves are off the trees in the fall. Some squirrels will freeze to the limbs or tree trunks when the dogs tree them, while others will start running for the nearest den hole. Because of this variety of shots offered, quite often one hunter carries a .22 for the shell shots, while the other carries a shotgun for the running shots.

The dog is turned loose in good squirrel woods and the hunters follow along, moving slowly, until they hear the dog bark treed. Then they head for the spot. If the squirrel is running when the hunters get there, if the squirrel dog is a good one he will be running too and following the squirrel's movements. But if the dog is doing his yelping from one spot, around the base of one tree, and if there is no den hole in the tree, the hunters will start searching for a squirrel flattened out on a limb or against the body of the tree up near the top.

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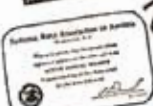
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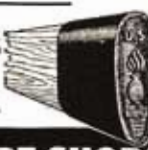
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any other type of squirrel hunting. Here, the hunter or hunters (they take different routes in the squirrel woods if there's more than one) simply ease along through good squirrel woods a la Indian, stopping every 40 or 50 yards for a couple of minutes to look and listen. When a squirrel is spied, the hunter advances toward the tree the squirrel is in.

The usual squirrel woods will contain several different foods which squirrels like, and if it is a good year for several food items the fuzzytails may be scattered out and feeding over a wide area. If so, the stalking hunter is more apt to click than the still hunter. He is usually armed with a shotgun and is of course equipped to deal with either still or running squirrels. The average stalking hunter, however, will get far more running shots than he will still shots, and normally he will see more squirrels than either the still or dog hunters. If he eases through the woods quietly enough and has a good pair of eyes for spying the fuzzytails, he will get a surprising number of shots within easy shotgun range.

There have been many arguments in the past about squirrel guns and loads. From nail-keg stools in the old-time country general stores to present coffee-break chats down at the sporting goods store, the arguments have been carried on. And they always will be, just as they should be. Things wouldn't seem right here in America otherwise.

I have been hunting squirrels regularly for almost 30 years, but I am still classing what I have to say about squirrel guns and loads in the following paragraphs as personal opinions, based on my own personal experiences. But my experiences might well differ from those of others.

As far as squirrel hunting shotguns are concerned, I am personally a 12 gauge fan all the way. I have had too many cripples escape into den holes when I was using the smaller gauges to suit me. I prefer a good 12 gauge over-under with 28 inch full choke and modified barrels, or a 12 gauge pump or auto-loader with 28 inch full choke or modified barrel. In such a gun, I use high velocity (long range) loads carrying No. 6 shot. With such a combination, I rarely have any crippled squirrels escape.

I much prefer an auto-loading .22 for squirrel hunting of the rifle kind, because the auto-loader makes possible quicker and easier second and third shots which may

quite often be necessary. I have found the better grade auto-loaders to be just as (or very nearly) as accurate and dependable as the pumps and bolt actions—certainly accurate enough for the purpose—and they are very well balanced little arms.

When going along with a buddy who carries a shotgun on a squirrel hunt with dogs, I rarely take a scope-sighted .22. Here the plain open sights are sufficient, because most of the shots are at close tree height range, so the scopes are really not necessary.

For still hunting, however, where most of the shots may come at 30 to 50 yard ranges, a good scope is a must for me. As I said earlier, my eyesight is not as keen as it once was, and the scope really does help.

At present, I am using a Weaver B-6 scope with tip-off mount. This scope can be mounted and the whole job zero'd-in in a matter of minutes, and the six-power scope doubles nicely for crow and close-range woodchuck shooting. For squirrel hunting alone, I would choose a four-power scope, but the B-6 is a very nice many-purpose .22 scope. There are other brands, of course, which are just as good for squirrel hunting; but regardless of the scope brand, I am personally definitely sold on the tip-off or similar mount feature which permits quick and easy mounting and zero'ing-in.

I use .22 Long Rifle cartridges exclusively for squirrel hunting. I have fewer cripples with them than when using Shorts or Long, and as far as I am concerned that is sufficient reason for using them.

As for bullets, I have used hollow-points, copperclads, solid lead, and several other varieties on squirrels, and I am a solid-lead-bullet fan almost 100 per cent, for squirrel hunting. Hollow-points mess up too much of the meat of an animal as small as a squirrel; and at ranges beyond 40 yards they do not seem to me to be as accurate as solid bullets. Lead bullets have better mushrooming and shocking powers than the copperclads; and, as far as I am personally concerned, the solid leads are the ideal squirrel bullet.

So, with all these thoughts tucked away in our noggin, let's head for the squirrel woods and enjoy a wonderful day. Leave a few fuzzytails for seed and for the next fellow, but be sure to take home enough for that pot of squirrel and dumplings. It's a feast too good for mere kings; only a good hunter deserves it!

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THE MAN-RIFLE WEAPON IN ATOMIC WAR

(Continued from page 25)

excellent skill is acquired in a short time, frequently by city boys who have hardly seen a blade of grass in their lives.

Qualification comes the last two days of training on a special range which retains most of its natural cover—grass, trees, brush. The target machines are dug in at ranges from 50 to 350 meters and each man has a 30-meter wide lane to watch. Camouflaged as they are, even the close targets are hard to see, the flick of movement as they come up. Target detection and shooting to kill come together here. After each string of shots the men change lanes, to equalize detection and shooting problems. Men alternate on first and second days' shooting, morning and afternoon, to equalize light shift on targets and sights. Scores for the two days are totalled, to determine the rating which will be placed on the man's service record—Marksman, Sharpshooter, Expert.

I have seen all of Trainfire I in detail, every period every hour and day of it, seeing the man-rifle weapon forged out of these young men scarcely a month from civilian life.

I have stood for long hours watching them shoot, studying their scores, talking with them by the dozens, trying a few shots myself occasionally. It is good, far in advance of anything yet tried. One of the best things about it is the interest it arouses, the motivation to try and to learn. Many men have told me they looked forward to the shooting period with considerable anticipation. The cadremen and officers who teach it like it also.

It was wise of the Army to put it into operation, as they are now doing, without delay for possible further improvement. The Canadian Army is also adopting it, and may have it in full operation even earlier than we.

The danger now to our preparedness program is that it would be easy to be satisfied with what we've got and rest on the oars.

Such complacency would not be thinkable in developing hardware. But it is not yet commonly realized that training programs get obsolete almost as fast as weapons. Marksmanship instruction systems can be improved almost endlessly by constant effort and evolution.

Almost as dangerous as stagnation is the threat of unwarranted changes based upon hobbies, hunches or untried concepts. Changes in training, as in weapons, must stem from research, backed by experience and proved out in thorough field tests. What would be the nature of such improvements? Perhaps it would come first through a new appraisal of the rifleman's task.

A common misconception in judging man-rifle performance is to think solely in terms of accuracy. Given a few months to a year, and with plenty of ammo, it is probably possible to teach a healthy person acceptable *accuracy* with a rifle; for example, to group shots within five minutes of angle at fixed targets. It is hard to realize that *accuracy* is not the only thing, perhaps not even the main thing, required in live target shooting. The deer incident illustrates that: I had only

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to hit in an area about a foot in diameter at 200 yards, a six-minute shot.

A former Infantry officer, wounded in action in Germany, once pointed out to me the difficult role of the rifleman. This is the only man in the lowest rank of the military services, said he, who has to make decisions comparable to those of a commissioned or non-commissioned officer. All other rankless soldiers or sailors or airmen are usually told what to do, or can ask somebody. The rifleman is more likely to be alone, and have to decide for himself.

He sees something move. Is it enemy or friend, perchance non-combatant? He decides: enemy. Should he shoot, perhaps reveal his position, endanger his buddies, get enemy mortar fire back at himself—or play it safe and stay deep in cover? He decides to shoot.

Can he hit the damned thing, or man, or part of a man? Decision affirmative.

Does he have to shoot offhand, or will it wait until he finds a supported position? He decides it will wait, gets his elbows down, takes a deep breath, raises his rifle. It wavers a good deal, the sights are on and off the target.

When to pull: now before it moves, or try for a better sight picture? Of the second or seconds of aiming, he has to choose the moment. This is the toughest decision of all. There is no possibility of asking the Sarge about it, or changing his mind later. He may bet his life and those of his buddies on this decision.

If the foregoing has some validity, we need to give the soldier all the practice possible in making these kinds of decisions, in training, to remove their novelty in combat. There is special need for getting more

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situational emotion, the unnerving tension of surprise and time uncertainty, into training, for this is always present with a live target. We have legends and some evidence of human performance with a six-shooter; it might be well to investigate the human "fast draw" potential with a rifle. We should study speed with accuracy, develop a technique, and seek ways of teaching it.

If we can discover the real problems, we may find it easier than many now suppose it to be, to school men in the needed skills. Most American youths have no trouble in learning to drive a car in traffic, a skill which similarly requires quick appraisal, decision, and execution to nicety.

Some of these problems are being studied now, and it is to be hoped that others will follow. There is always danger that an inclination to accept the "status quo" and other human weaknesses will interfere with vigorous prosecution, or that preoccupation with more spectacular interests, such as push-button warfare or space hardware, will cut off research funds. It will be especially easy to put off "until we find time" the studies of motivating rewards which will induce young men to choose the rifleman's role and seek proficiency in it. These might include extra pay and privileges, public recognition, or other aspects of elite status. For it has come as a surprise to many that in the field of modern combat, the rifleman may be a deciding factor. The rifle in the Atomic Age is possibly more important than ever before. Even among the readers of a magazine devoted to guns, there will be some who have questioned the combat worth of what seems, at first glance, to be a horse-and-buggy weapon. Such thinking fails to grasp that the rifle alone is not the "weapon," but rifle-plus-man, with his senses, his intelligence and his great versatility, are the real components of the weapon called "rifleman." This launching tube which a man can carry almost anywhere, along with a couple of hundred 10-cent projectiles he can use (if well enough trained) specifically

and successfully against a hostile as far away as he can see him. These projectiles give no warning, as do most area weapons. There is no protection against them, unless it would be prayer, for they easily penetrate all body armor known to date. A hit, even in a body extremity, is usually incapacitating.

But, it may be argued, an A-bomb will do all these things on a grand scale. This might be true if the enemy would cooperate by huddling into convenient, economical targets, as civilians do in cities. But every army in the world is studying the art of dispersion, with rapid ground and air mobility to overcome its disadvantages when the right moment comes. The modern concept of battlefield "hugging," getting so close to the enemy that he dares not use his nuclear weapons, can be likened to a boxer's fighting. All armies have calculated to a nicety the size of the zone which would constitute a "direct hit"—where nobody would survive—and studied the remarkably simple expedients for survival outside that zone.

The fact is that combat nuclear weapons are in the class of artillery, air bombs, and hand grenades. These "Conventional weapons" also have not usually been decisive in performing real the mission of an army, which is to seek out the enemy and destroy him. Even if we used them in tremendous numbers, as artillery in World War II or our total air superiority in Korea, dusty and shaken but whole men will continue to crawl out of their holes in substantial numbers for the final, decisive, close-range action.

That is where the rifle comes in. With dispersion, air drops, greater night operations including infiltration, the chances increase enormously of meeting individual or small groups of enemy face-to-face, and shooting it out on the spot with what you're carrying. You won't have time for the luxury of "buck fever" then. Only a continuing, open-minded evolution of small arms training systems can prepare the American rifleman for the task of defense.

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(Continued from page 36)

signments. If he covers your trap or skeet shoot, in the great majority of instances, it will be on his own time, and to the tune of static from his wife and youngsters. A number of well-known sports and outdoor writers have told me that they welcome shoot reports from gun clubs, and have asked me to spread the word. To make sure that the shoot reports get printed, here's how they want them:

A shoot report should be mailed on the day of the shoot, or next day at the latest. Newspaper editors have strong feelings regarding the timeliness of news. A shoot report received a week after the shoot smells to them about as appetizing as the family garbage after the same period. When the report is written in shooter's language, the newspaper is spared the embarrassment of the goofs mentioned earlier. Sports editors have the suspicion that an account of an event which says simply that Joe Blow broke 98, Henry Smo broke 97, and Hiram Horsefeather broke 96, fails to raise reader's pulses. If Henry Horsefeather broke his 96 while hitched tandem with a gray mule who had one pink ear, this should be mentioned.

Pictures help any shoot story—and they should arrive with the story, properly identified. In many cities, arrangements may be made with the newspaper to develop the film. When this is true, simply send the unexposed film with the story.

And, please, no pictures of wooden Indians, with expressions on their faces which give the impression that the whole business is very depressing. If you must line up the trophy winners as if facing the firing squad,

ask them to smile. It's the brave thing to do. If you include pictures of trap and skeet shooters holding guns, please ask the subjects to hold the guns in an approved safe fashion. Trap and skeet shooters have piled up an amazing safety record. They didn't accomplish that enviable record by careless gun handling.

Some of the comments concerning newspaper publicity for trap and skeet events apply to this column. From the day that I first walked on a field where clay targets were being shattered, I have heard pitiful means of anguish and pain calling for more national magazine publicity for the sports. GUNS magazine has seen fit to add this trap and skeet column. The editors of GUNS are given to largesse and philanthropic tendencies, but withal they do not pay me enough for this column to support my family. If I must play detective in order to ferret out shooting news, this "Pull" column will probably turn out to be a little jerk instead of a good, strong "pull." If you, the shooters and gun clubs, will give out with the stories of your achievements, your human interest shooting angles, and some photographs of same, we'll all be happy. And, who knows, we may sell other GUNS readers on joining us at the gun club.

♦ San Diego, Calif. The shooting "perfection barrier" has been broken . . . and no fooling. Within a few days, four Marines . . . Stanley Millar, Delbert Faulkner, Michael Pietroforte, and Dale Stone . . . fired perfect 250x250s over the National Match course. The firing was done from the 600 yard line.

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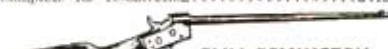
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THE COMEBACK OF THE COLT RIFLE

(Continued from page 16)

Colt had to pay extra to satisfy the gunmaker's demands. Later, afraid the early wet-proof priming cap shields at the back of the cylinder were trapping the side flash and setting off the caps, Colt abandoned the protection. His whole design thinking had been toward streamlining the awkward, clumsy percussion gun with its monstrous hammer into a sleek, self-contained shooting machine. The shields made the outside of the guns sleek and smooth, but Paterson works foreman Pliny Lawton objected, and away they went. The Pearson model was modified, no cap shields, and Colt and Lawton went to see the young company's business manager and backer, Colt's cousin Dudley Selden.

Always at odds over money, Colt and Selden were always courteous but the older, wealthier lawyer remained always a little reserved about going in with Sam's schemes. When the two gun cranks fired the "perfected" model they suggested the firm should produce, and it too blew up, Selden was a little rattled. For a few days in March of 1837, it looked as if the company would fold before fairly started; but Colt settled down to work and made another design improvement which he thought fixed the trouble. He chamfered the front edges of each chamber so that the side flash, where chamber mouth lined with the bore, would not be reflected into the adjacent chambers. Colt surmised that the side flash in front leaked past the loosely fitting bullets to fire the side charges. But the bevel, though patented for the purpose of cutting simultaneous discharges, did not cure the trouble.

Next, Colt designed a lever assembly to push the bullets into the chambers. The lever allowed shooters to use bullets that fitted tightly—modern enthusiasts of cap-and-ball Colts know the compound lever often allows them to shave off a thin "moon" of lead in loading. Such a bullet-seating rammer made the chambers actually watertight, and later one Colt advertising scheme was to boast of the wet-proof chambered cylinder, if the nipples or percussion cones were closed with a bit of wax before caps were put on.

Gradually the revolving rifle design was perfected. Percussion caps were separated by massive shoulders of steel to block side flash. The loading lever—sometimes a separate tool, later permanently hinged to the gun—gave the shooter a cylindrical "mag-

azine" as solidly loaded as a modern cartridge gun. But Colt did not reckon with suddenly having production wrested from his control. A stock-holders' fight tossed Sam out of the shop and onto the road as a salesman. Major financier John Ehlers, gun dealer of Hoboken, N. J., took over production control of the works. "We must begin making something to sell," screamed Selden, and Ehlers satisfied that order. The guns produced under Ehlers' supervision lacked much of being what Colt wanted Colt guns to be, but at least—they were selling guns. The 1839 models included a 6-shot revolving carbine. Several hundred were bought for the Army. Others were issued to the U.S. Pacific fleet, while still others saw service with the Marines in the Florida wars. But the undersized chunks of steel heated to red heat and squashed flat to swell them bigger so the larger Carbine cylinders could be turned from them, had internal fissures and cracks. Ehlers brazed up the cracks and bored the pieces into cylinders. As with the experimental guns made in the early days of the science of working iron, these new Carbine cylinders also double-shotted. One gun's cylinder burst, a fragment injuring a Marine so he died two days later. Lt. McLaughlin, commanding the Marines in Florida, petitioned his superiors to withdraw the Colt Carbines from his forces. Amid recriminations and counter suits at law, the Paterson concern folded. Even purchase of 180 Carbines by the new Republic of Texas did not swell the finances enough to weather the storm. And bad publicity from these excellently designed but poorly made military carbines was to plague the Colt revolving rifle in later years.

Sam Colt was undaunted. In August, 1839, he drew up in the form of a perfected revolving rifle a radically new ignition principle. All guns of the time were either copper-cap fired (the percussion system), or of the old flintlock firing type. Colt's idea was to fire the powder charge with air. One of the first practical applicators of pure research to practical uses, Colt knew of the "Diesel principle." Though Diesel himself had yet to apply the idea of rapidly compressing fuel to ignite it, Colt knew that a fluid increased in internal temperature when compressed. Experimentally he had made a single shot model from a brass flint blunderbuss barrel and a nicely shaped air



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valve system, which allowed him to send a jet of air under sudden pressure into a powder charge. Though the model which survives is only partly complete, the idea must have worked, since Sam drew up a patent and a caveat describing his design. The gun used a center hammer with an exposed cocking spur. The hammer struck a plunger, compressed the air through a tiny orifice, and then suddenly turned off a valve so the flash-back would not smoke up the works. What Colt conceived was a center-fire weapon, only a few decades ahead of the date the world was ready to accept such new-fangled notions. The air-ignition rifle was, so far as is known, never made.

But Colt's prolific talents for design and mass-production manufacture continued to follow the rifle path. Though he made millions from revolvers, the rifle was obviously the greatest challenge. Design advances appear more in the rifles than in the mass-market revolvers. So diversified are the rifle designs, elements of which later showed up in revolvers (Colt invented and patented the solid frame on a revolver, although the first guns to have the solid frame were his rifles), that the student might suspect he made money off revolvers to finance his rifle designs.

During the 1840's, before he set up shop again in Hartford where the Colt factory still hums today, Sam worked for the Navy department. As an independent ordnance contractor, he had funds to work on experiments, and many rifles and carbines were

drawn up during 1842-3-4. The Navy seemed the most promising market—the Colt carbines for Marines and boarding parties, was a well-recommended item. But the younger officers, who had heard rumors of Colt Carbines bursting in Florida, were growing up in the service, and they were prejudiced against his guns.

The year 1847 was the most important one in Sam's life. He received an Army contract for revolving pistols, completed it successfully by subcontracting to Eli Whitney, and at the end of the year borrowed \$14,500 from a rich uncle to return to gun manufacturing. Almost before the ink was dry on his new shop leases, he commenced to work up a rifle. Using the improved basic lockwork of the huge Walker revolver which the Texas Rangers used with such success in the Mexican War, Colt designed a big 8-shot .44 caliber Dragoon-type sporting rifle. Only one survives, in the Conn. State Library, although the gun was advertised on a Colt broadside which is surprisingly like a modern advertising sheet.

But the market demanded revolving pistols, as many as he could turn out, and the Hartford works outgrew itself. The Pearl Street rented shop was enlarged, then new premises rented on Grove and Potter streets, and finally Colt bought several hundred acres of swamp, diked it in and pumped it out, and erected the world's largest private armory on the South Meadows. The company, flushed with the sportsman's demand and with orders from western emigrants for handguns, was ready to expand into the controversial rifle field.

Competition with repeating rifles was small. Two obscure mechanics named Horace and Daniel—last names Smith & Wesson, soon to found a handgun business equal to Colt's—were struggling with an odd lever action gun that used a self-contained bullet-and-propellant package a little like a tiny rocket. Perfected through a succession of engineers after Smith and Wesson sold out and turned to revolver making, the little lever gun became the Winchester. But that was in the future. With the revolving principle still the most practical one for a loose-loading powder and ball gun, Colt had the market to himself.

His first Hartford rifles were beautifully developed solid frame repeaters, six-shots, .44 and .36 caliber. With side hammers, as were all percussion Hartford repeaters, these are today known as the "Root Model" after Colt's chief engineer, Elisha King Root.

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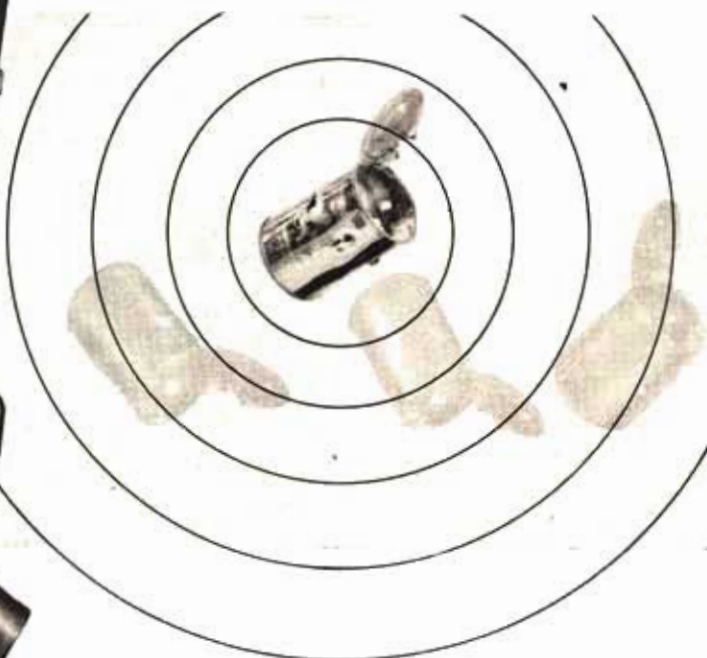
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Less than 20,000 revolving rifles in all types were actually made, though they spanned the sportsmen's needs from light .36 caliber "deer hunting" guns up to .70" elephant rifles. One such elephant rifle was made. It is still in the Colt museum. It may have signified Colt's hope to safari to Africa when the War was over. But his death in 1862 from overwork ended that.

The Colt's rifles saw hard service in the War. The 1st Regiment, United States Sharpshooters, under New York expert rifleman Colonel Hiram Berdan, received 1500 of the .56 caliber repeaters taking the .58 government paper cartridge. Colt's rifles in the hands of Berdan's men were credited with turning C. S. A. General Longstreet's flank at Gettysburg, affecting the outcome of that fateful battle.

For the Union, Colt's produced over 100,000 single shot rifled muskets of a pattern which was originated by Colt and Root as an improvement on the Springfield Armory model. The M1861 Special Model, also made by other contractors as the "1863" model, is today a much-sought after musket for collectors and muzzle-loading shooters.

When the western boom started after the war, Colt's was ready. Handguns were in demand and so were rifles. But the field was in a state of uncertainty, and no manufacturer really knew what would come as a perfected principle for rifles. The highly improved model of Smith and Wesson's little Volcanic lever action carbine led the field, and the lever action seemed to be the best repeating system of the day. Colt's plunged into the lever action rifle business. Their venture lasted one year. At the end of making about 8500 guns, they turned to another form of mechanism.

Why, is one of the interesting sidelights of what may go on behind the scenes in the gun business. Colt's lever action repeater of 1883 was a fine, successful rifle. Mechanically, it was protected by patents and quite different from other rifles except for the

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lever. But it looked very much like the Winchester. The cartridge, naturally, was the same except that, instead of "Winchester," it was marked with the Colt name. But when shooters began calling the new lever gun the "Colt-Winchester," the team down the river in New Haven decided something should be done. Briefly, according to legend, they made a few revolvers, took them up to Hartford, and politely asked Colt's president General William B. Franklin what he thought of them. Franklin could see the writing on the wall, and the lever action rifle was discontinued. Colt's turned instead to perfecting a pump action repeating system. On hand today in the Winchester factory museum are a half dozen excellent model revolvers, suggesting that the story is more than just a legend. There is a happy ending: Winchester's revolvers were mostly made by Hugo Borchardt, naturalized American of German birth. Colt's later hired Borchardt, made him master mechanic, a job equal to works manager in today's factory set-up.

The sportsman's dream in the 1880's as well as today, it seems, was to go to Africa. Today, American game lacks the exotic variety it had in the buffalo era, but even then the variety and size of Africa's animals lured the U.S. gunner to far shores. Sam Colt's son, Caldwell Hart Colt, was caught with this dream and was instrumental in setting the double barreled Colt rifle into production. Chambered mostly for .45-70, the Colt double rifle exists in a very few specimens today. Though serial numbers over 300 are known, few survive. The gun was much like a standard hammer shotgun, except for the boring and sights. Though novel, it had little lasting effect on the Colt rifle program.

Most important, in point of numbers produced, was the pump rifle designed by William H. Elliott. Made in three frame sizes, in .22, .45-70, and a middle size taking the .32-20, .38-40 and .44-40 sizes, it was a highly popular and fast-shooting sportsman's rifle. Exhibition shooter Fred Elliott of the 1890's used Colts and Colt trombone rifles, and in point of finish, reliable working, and solid construction, they were not excelled by any other. But at the end of the century the new automatic pistols of John Browning promised to double Colt's handgun business, and the rifles were gradually dropped from the line.

Colt's returned to the rifle business in 1918 with large contracts for the Browning Automatic Rifle and, after the war, continued the gun as the Colt Monitor. Brownings were made in the old Sears-owned Meriden Firearms Factory in Meriden, Ct., operated by Colt's "for the duration." Later,



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Monitor production was resumed at Hartford. The Meriden guns were regular BAR M1918 and as modified, but the Monitors were snubby little jobs, chunky but fast-handling, sporting 20" carbine barrels and slightly modified internal buffer groups and recoil spring assemblies in the butts.

That brings the story of Colt rifles to the present, for no new models either sporting or military were put into the works until Fred Roff came to the century-old firm with new management in the 1950's. And today Roff's efforts to put Colt's once again in the front with rifles, as with pistols, meets a challenge. That challenge is, to solve the question of "what looks like a Colt rifle?"

Production today is far less difficult than it was in Sam Colt's Paterson period, and subject to far less hazards. Now, barrels are of the finest steel obtainable, actions made

according to standards strictly controlled by government proof houses to ensure absolute safety. In Colt's time, design was no problem, for whatever he put his hand to reflected his thinking. But the period from Colt's death to the present showed a variety of different principles—lever, pump, automatic—none truly commercial successes. None have their descendants in the Colt line today.

Right now, Colt's is turning out excellent rifles, of high quality so far as finish, basic design, and fundamental accuracy in the various calibers is concerned. But to really forge ahead, they need a spark of something that says "Colt." How to get it—and they will get it, for there is no "give up" either in Colt history or in Fred Roff's make-up—and what will it be, are questions not yet answered. That is the challenge Colt will meet in the near future.

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THE 17 JAVELINA

(Continued from page 33)

consistent accuracy is a must for small-animal kills at fair ranges.

In the thickly populated regions of the country, notably the east and midwest, varmint shooting and bench-rest target firing on regulation ranges are the only types of shooting considered fairly safe.

With these considerations in mind, something radically new in caliber and case design is indicated. Popular wildcat cartridges offer little improvement over existing factory loads. Several ultra-high velocity .22s are in use which pose no ricochet problems, yet which blast the eardrums of bystanders and will echo and re-echo from the surrounding hills, scaring Old Bossy so that she will give no milk for two days. On the other hand, some very good .22s have a mild report and are quite accurate, but about every fifth shot will be buzzing off into the lower forty to the detriment of life and property. In either case, there's an end to a peace-loving varmint shooter's pleasant Sunday afternoon afield.

The new 6 mms. with bullet weights of 75 to 100 grains, are definitely on the "cannon" side for use in thickly settled localities. Atkinson and Marquart decided a new caliber might solve some of the problems posed by existing rounds for varminters.

A new development in varmint cartridges generally utilizes some standard caliber and hangs an existing cartridge case on the back, with a slight change in shape (usually an "improvement" that has already been tried and discarded by several previous experimenters). Extravagant claims are then made for it, regarding accuracy, power and devastating effect. The undeniable fact remains that any varmint cartridge of .22 caliber or larger will have a projectile weighing at least 45 grains, traveling at 3000 fps, and regardless of exact case shape, charge weight or propellant type, one of the foregoing objections will apply.

In view of these facts, A & M decided that any definite improvement in this class of cartridge should have a bullet of perhaps 25 grains, which could be propelled at a velocity well in excess of 3000 fps without too sharp a report. It should be adequate for killing varmints at medium ranges, and should give freedom from ricochet danger. Obviously, this could not be attained by using one of the existing varmint calibers, since bullet weight would be too great. In fact, caliber

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would have to be one never ordinarily considered.

The decision was made to go "whole hog" and design a combination from scratch, exclusively for varmints. Bullet was held at 25 grains, as that is the lightest weight that would kill consistently at 200 yards with reasonable velocities. Case design could be argued about endlessly, so a practical and time-tested shape was adhered to, of sufficient capacity to produce the desired velocity. No claims were intended for double venturi shoulder design, inverted primers, or other magical hocus-pokus.

The .17 caliber was chosen, as adapting itself perfectly to the weight and proportions visualized. Previous experiments had been conducted on this caliber, using cases from the .22 Hornet right up to the .30-06. This is going from the reasonable to the ridiculous. It has been suggested that the .22 LR would be "just the thing" if necked to .17, or perhaps that using the .300 H & H Magnum case in .17 caliber might give velocities in the neighborhood of 10,000 fps!

Since Hornet brass is sometimes inclined to lack uniformity and the excellent .22-3000 cases are no longer manufactured, the next to be considered were the .218 Bee and .222 Remington. Both will be available for some time; the Bee case would be easily adapted to the single-shot actions and the .222 would be ideal in magazine type bolt action rifles.

Preliminary work was done with the .222 case shortened somewhat. Tests indicated that promising results could be expected. Different case lengths were tested and various rifling twists were tried. It became obvious that about 20 grains of 3031 powder, when case design was such that this was nearly a full case, would give a velocity of 3650 fps without excessive pressure. Cases were reloaded as many as ten times with this load, without primer pocket enlargement. Using the 25 grain Sisk and Barnes bullets, a rifling twist of 1 turn in 14 inches was not sufficient to stabilize bullets. One turn in 12 inches stabilized them nicely.

Test rifles were built both in hunting and target weights, with rifling twists of 1 turn in 14", 12", 11" and 10".

The hunting rifle was used during the Arizona javelina hunt, and accounted for the first of the hardy little wild pigs. Somehow the name stuck and the cartridge is still known as the 17 Javelina (without the decimal).

A & M's first .17 caliber tests were conducted about five years ago, using a Winchester high-wall action and a light sporter barrel chambered for the .170 Landis Woodsman. Accuracy was fair. The chosen load gave a velocity of 3700 fps with the necked-down .22-3000 case.

Several advantages were immediately apparent. Ricochet danger was at a minimum; any body-hit produced an instantaneous kill on jackrabbits and other available varmints, and a half day's supply of ammunition could be carried in one shirt pocket. A considerable hole was blown in the far side of every jack hit at ranges up to 200 yards. Others were killed at 275 yards, just as quickly and still with extensive tissue damage. The previously mentioned discontinuance of .22-3000 cases prompted the development of the current cartridge, using other cases.

A number of rifles in .17 caliber have been built for varmint shooters throughout the

U. S. In custom gun work it is impossible to govern entirely the combinations of actions and cartridges which are desired by customers. As long as a desired combination is safe, the customer's wishes are fulfilled as nearly as possible.

A good .17 barrel, fitted to a good action (especially in the bolt action class) offers an excellent potential for a fine, accurate varmint rifle. The Sako bolt action is one ideal choice for the 17 Javelina cartridge. Model 70 Winchester and Schultz & Larsen actions have also been used with marked success.

Regarding accuracy, 5-shot groups below .300" have been fired at 100 yards by Ted Holmes Gun Shop, Mattoon, Ill. They tried a 17 Javelina rifle built for them, upon a Schultz & Larsen action and with an Atkin-

(Continued on page 58)

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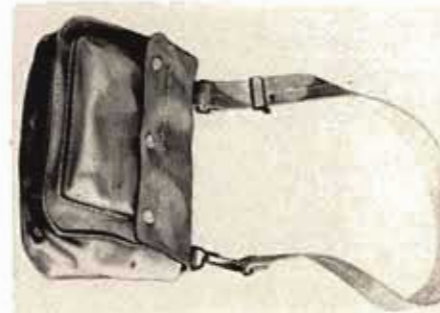
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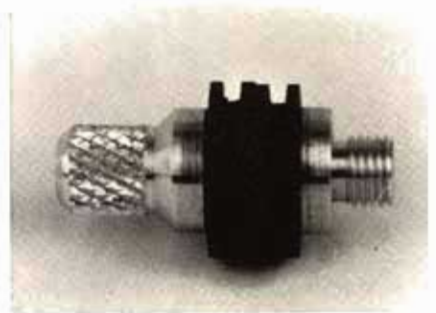


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son and Marquart barrel. A & M's test groups with a light Sako sporter measured from slightly under .400 to only slightly over. An obvious difference was noted in the accuracy attained with bullets of different makes. Since Ted Holmes' bullets have become available in limited quantities, they have been largely used for test purposes.

Any cartridge which will consistently group under one-half an inch is certainly accurate enough for varmint shooting, which is the sole intended purpose of the 17 javelina. When loaded to a velocity of 3600 fps (25-grain bullet, 21 grains of powder), this cartridge has sufficient remaining velocity at 100 yards to bulge the back of a 3/8" steel plate. At 50 feet, the plate is cleanly pierced.

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ARMS LIBRARY

(Continued from page 12)

buyer need not be disappointed in ordering. A wide variety of fine English sporting rifles are listed in the half-a-hundred price range.

The purist will grin a trifle to find Boer Mausers listed as "Irish," the editors doubtless being confused by the expression "damned Orangeman," relating to one sympathy of Irishman during the Troubles, and the mark on the gun "O.V.S." standing for Oranje Vrie Staat, Orange Free State, in Africa. The collector, whether automatic pistols, muskets, modern military auto rifles, or cased duellers is his yen, will find something for him in this big Golden State catalog. Eight feature articles including a running commentary on firearms history, essays by Major James E. Hicks on military accouterments, Donald Bady on auto pistol collecting, Roger Marsh on allied and soviet post-war light automatics, all add spice to the fare. The reception of this just released catalog has been so excellent, Golden State is laying plans for future catalogs which may well grow into the constant reference book of this century's weapons, as Bannerman's catalogs have been for arms of the past. Write for one and see.—WBE

RUCNE PALNE ZBRANE

By J. Lugs
(Prague, 1956, 2 vols., \$25.)

Usually a reviewer can at least read the volume he reviews. I cannot even read these two remarkable volumes from behind the iron curtain, but the pictures alone make them worth the money. For the arms man who reads Czech, these are a gold mine of information. For example, Vol. I consists of photographs from page 189 to the final page 401, with three or more firearms per page. Of these, over 150 were strangers to me, and I have seen a lot of guns. Even old favorites (as I thought one to be) took on a new look, such as the Forsyth lock, a "typical specimen," which on second look was marked "Wien." Collectors of Austrian Forsyth pistols will take notice! Muskets of the mid-19th century are illustrated in considerable detail and the model dates are evident from the captions, since many words in English and Czech are similar in weapons terminology. Some of the pictures came

from guns Mr. Lugs evidently had at hand; some are copied from other journals. The British Textbook of Small Arms (1929) served as source for some plates, but Herschel Logan's book on "Handcannon to Automatic" yielded up a Collier for Mr. Lugs' photocopyiers, and many early American arms are also shown. Automatic weapons enthusiasts will especially have a field day with Mr. Lugs' two books. Three versions of the Czech pistol grip magazine sub-machine guns is shown, ZK 476 with wood and wire stock, and a Model 23 of earlier design, round frame. On facing page (326, Vol. II) are two designs to give the burp gun boys a jolt: "Samopal ZB47," with wood stock and folding stock, a sort of thumbhole style of handle for submachine gun design. The Schmeisser-like ZK 466-015 of Czech make is also novel to these eyes, and such weapons as the double action Hungarian Model 48 automatic pistol are, we are told, still in the U.S. Army's "secret" list. The pictures in Vol. II (pp. 249 to 404) conclude with portraits of men of arms; Eli Whitney and Samuel Colt share top billing over Antoine Lebeda and Vincenc Augustin; Horace Smith and Hiram Berdan share a page with Sylvestr Krnka and Paul Mauser. Benedated portraits of Soviet designers Fedorov, Tokarev, Degtarev, Simonov, Sudajev, Goryunov, and Shpagin are shown, and brief biographies of each are included in the text. At the end is John C. Garand. Evidently Czech arms men are very impressed by Garand: on page 306 is shown the ZK 420-S, a turn bolt gas operated job which, except for minor manufacturing changes, is substantially similar to the latest Garand modification, the M14 rifle, including the gas port placed back near the breech and the half stock. Conspicuous by absence are pictures of the Model 52 light machine gun, the Soviet M1951 series of light weapons, or the SHE Czech light automatic rifle, which are so popular in the Near East. Second best to these is a photo of the Tokarev 1938 carbine, showing its prototype relationship to the SKS-46 rifle. Exclusive distributor of these rare books in the U.S. is Service Armament Corp., 8 Old Fort Lee Rd., Bogota, N. J. Price the set, \$25 post paid.—WBE

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WHICH BULLETS ARE BEST?

(Continued from page 31)

MATHEMATICAL CONSTANTS FOR FIGURING SECTIONAL DENSITY

.22 CAL.	(.224)	.00284
6MM	(.243)	.00242
.25	(.257)	.00216
6.5MM	(.263)	.00206
.270	(.277)	.00185
7MM	(.284)	.00177
.30	(.308)	.00150
.303	(.311)	.00147
.32	(.321)	.00139
8MM	(.323)	.00137
.33	(.333)	.00129
.348	(.348)	.00117
.35	(.358)	.00112
.375	(.375)	.00101
.44	(.427)	.00078
.45	(.454)	.00069

Another use of the table is to find the bullet weight of another caliber, having the same sectional density. Take our .257 bullet weighing 87 grains, which figured .188. To find the weight of a .277" (.270 caliber) bullet with a sectional density of .188 we use the table to find the mathematical figure for the .277" bullet, which is .00185. Divide the desired sectional density figure of .188 by .00185 and we have the bullet weight: 101.6 grains.

The closest bullet to this figure is the 100 grain .270 bullet which, for all practical purposes, has the same sectional density as the 87 grain .257 bullet and, therefore, somewhat similar behavior. The 110 grain .270 bullet with a .204 sectional density, can be used to advantage by handloaders, being a little better for windy days, and long shots.

Following is a table of sectional densities, categorized from poor to excellent. These figures are a general classification, taking into account: type of shooting, range, wind drift, remaining energy, and penetrating qualities. On calm days some of the listed ranges can be increased, but when that old devil wind starts kicking bullets around, you will soon find the listed ranges are all that can be counted on with any certainty.

SECTIONAL DENSITY RATINGS

Sect. Density	Rating	Used For
.100-.140	Poor	Varmints to 200 yds.
.141-.190	Fair	Varmints to 300 yds.
.191-.240	Good	Var. & Game to 400 yds.
.241-.290	Very Good	Game 400 yds. & over
.291 & up	Excellent	Largest Game—Short & long range

It will be readily noted that none of the .22 bullets fall into the good or better class. The best of the .22 caliber bullets for bucking wind, and distance, is the 63 grain with a sectional density of .179. Anyone who has used the high velocity .22 bores knows that velocity falls off very fast, and the bullets drift considerably farther than the larger caliber, heavier bullets.

Many of the light weight bullets, in other calibers, will fall into the "fair" class, and for shooting across long distances, especially on windy days, a little heavier bullet will

(Continued on page 62)

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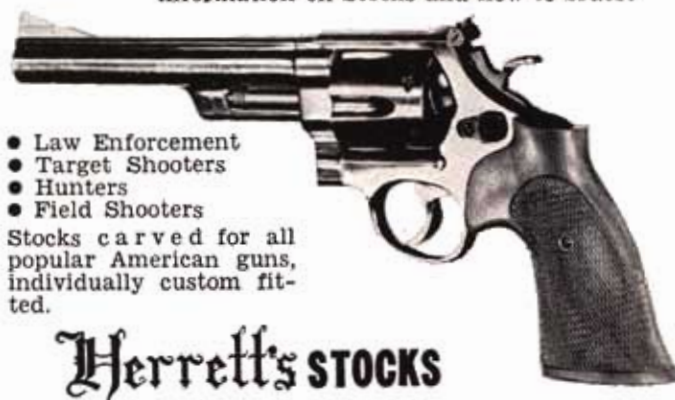
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(Continued from page 61)

work better, even though it doesn't shoot quite as flat. With many of the cartridges available today, the next heavier bullet rated in the "good" class will only shoot about 1½" lower at 300 yards, with a 200 yard zero setting. It's a lot easier to hold a bit higher, and not be bothered with as much wind drift when using the heavier bullet, than to hold 'way off target for windage with lighter, shorter bullets.

Here is a table showing bullet positions of three different cartridges, used for all round shooting. These figures are for scope sighted rifles and have been corrected to allow for the scope height above the bore:

Bullet Position from Line of Scope Sight (In.)

Cartridge	100 Yds.	200 Yds.	300 Yds.
.257 — 87 gr.	+1.5	0	-7.3
.257 — 100 gr.	+1.9	0	-8.9
.270 — 100 gr.	+9	0	-5.6
.270 — 130 gr.	+1.3	0	-6.7
.30-06—110 gr.	+1.2	0	-6.8
.30-06—150 gr.	+1.6	0	-7.6
.30-06—180 gr.	+2.1	0	-8.7

From this table it can be seen that the next heavier bullet, for these cartridges, shoots nearly as flat as the lightest bullets. When zeroed at 200 yards the .270 has only 1.1" difference between the striking point of the 100 grain and the 130 grain bullets. The .30-06 has 1.2" difference between the 110 grain and 150 grain bullets, and the .257 has 1.6" between the 87 grain and 100 grain bullets. The difference of bullet paths at 100 yards is only .4", which is negligible. Even more important, to large game hunters, is the 180 grain .30-06 bullet which shoots only 1.1" lower at 300 yards than the 150 grain.

Always be sure to zero your rifle for the bullet you intend to use. Most rifles will shoot a different group center with different bullets, so a slight sight adjustment is necessary, to bring them back on aim.

For varmint hunting, either handload a good pointed, soft point bullet, or, if you use factory ammunition, use hollow point, or soft nose pointed bullets, in preference to controlled expansion types. These are intended to hold together on game animals, and won't open consistently on the smaller varmints. I have seen good handloaded 150 grain spitzer soft point bullets, out of a .30-06, cut crows in half at 200 yards, when a controlled expansion bullet, with its heavier copper jacket, would not have opened, on such a small target.

When choosing a heavier bullet, don't use round nose, or flat nose bullets, unless absolutely necessary. These will not shoot as flat as the more efficient pointed types, and will lose velocity and energy faster, thereby partly overcoming the advantage of the higher sectional density of the heavier bullet.

A word of advice on the excellent class from .291 and higher. To take full advantage of these more efficient, heavier bullets, for game shooting over 200 yards, you must have a large capacity cartridge case. The case has to hold enough powder to send the bullet at practical velocities, while still maintaining safe pressures. This will rule out some of the smaller case capacity cartridges for these heavier bullets, and you will have to stay in the very good class, with sectional densities from .241 to .290.

For all round shooting, day in and day out, over all ranges, and all wind conditions, choose a bullet with enough sectional density to do the job efficiently. Select a bullet shape that efficiently overcomes air resistance, and a bullet nose that is designed for your type of hunting. Light, short bullets start out like a streak of light, but the lack of sufficient weight immediately subjects them to a fast loss of velocity. A medium cross wind will turn them off target enough to make hits over 200 yards a questionable matter. Wind drift is much harder to estimate and correct for, when using light bullets, than the disadvantage of having to hold a little higher with heavier bullets. By making sure that your bullets have proper sectional density to hold up over long distances and buck wind drift, you will increase your chances of hitting your target. Just because the lighter bullets shoot a little flatter does not mean they are more efficient under all conditions. A little more weight in the bullet will pay off when the crosshairs settle on the target and the ever present wind is doing its best to chalk up a miss for your efforts.

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MONEY BACK GUARANTEE

NEW METHOD MFG. CO.
6-12 Bradford, Pa.

Name _____
Address _____
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ELMER KEITH SAYS

(Continued from page 9)

sider the fine double rifle the finest sporting weapon made for close-to-medium range shooting of any big game.

This C & H .375 is sighted for 100, 200, and 300 yards, which is as far as one should ever shoot at big game. For the man who wants the absolute ultimate in a reliable rifle with perfect shotgun balance, quick easily picked up sights, and the fastest of all safeties, the fine best quality double is in a class by itself.

Anderol Preservatives and Lubricants

We have recently tested some new Anderol products. One is a spray-on preservative for any iron or steel. To completely coat a firearm, you need only hold it out and press the button on the spray can. A smooth even coat of this preservative grease is sprayed on.

We gave it a most rigid test by coating one half of a brightly polished Colt sixgun barrel and leaving the other half uncoated. Then we hung it up over Eddie Schaller's blueing tanks. After he had blued a lot of arms and parts, with steam and fumes from the hot caustic blueing salts rising and thoroughly coating the barrel, the barrel was left hanging until the next session of blueing. When taken down and examined, the uncoated section of the barrel was thoroughly rusted, while the coated portion was as bright as the day we sprayed it. If the fumes from boiling blueing salts will not rust through the preservative under intense heat and the condensation from cooling and again being subjected to the same treatment, we feel that Lehigh Chemical Co. of Chestertown, Md., has a very worthwhile and fool proof gun preservative and one that is very quick and simple to apply.

We also tested their gun grease and gun oil, finding them both very high quality products. The gun grease certainly smoothed up stiff working parts after being blued. Barrels were coated with their gun oil and left standing on end for days in a hot attic, but the bore was still coated full length and no rust appeared.

Ruger Bearcat .22 L.R.

Bill Ruger now offers an entirely new, light weight, single action sixshooter called the Bearcat round barrel, patterned after one of the early Remington revolvers. Light alloy frame and stock straps are integral and one piece; the trigger guard is brass finish;

other parts, steel. It has a 4" round barrel. Sights are fixed, patridge type, and the front sight is amply high, so that the little gun shoots a bit low. This is as it should be, allowing the individual to file down the front sight until the arm shoots exactly right for him. The gun is very light (17 ounces) and very small (built to about the same scale as a .31 caliber cap-and-ball pistol), but it is amply heavy and strong for any and all .22 L.R. ammunition. The excellent Remington-type single action grip is adequate for two fingers and, with the little finger curled under the butt, makes a very good grip.

The new arm incorporates the same coil springs throughout as the famous Single Six, but has a differently shaped frame. The cylinder carries a bear and a mountain lion, and the name Ruger Bearcat. The cylinder is full, no flutes in its sides. This adds not only to its strength but also to its appearance. The little arm has an excellent loading gate, the extractor rod button is large enough to balance the rest of the assembly in appearance, and the base pin catch holds the base pin perfectly against recoil. Trigger and hammer spur resemble the Single Six in shape and appearance. The brass trigger guard hooks into frame at rear and is held in place at front end by one screw and as the

(Continued on page 65)

SHOOT!

Harvey Prot-X-Bore Zinc Base & Jugal Jacketed Swaged Hand Gun Bullets

Fastest, most accurate bullets. All popular calibers, N.E.W. Casting kit for Jugal jacketed bullets; 44 S&W, 4 Mag., 38 S&W, & 357 Mag. N.F.M. (shoot from the muzzle) moulds for Prot-X-Bore size bullets. Send 25¢ in coin or stamps for Loading Tables and complete information on 16 types & weights of bullets.

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Lakeville, Connecticut

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POWERFUL

.38 S. & W. CALIBER



THE FAMOUS ENFIELD COMMANDO 5" S&W 6-shot. Rugged, sturdy, dependable. Only \$16.50. 2 for \$30.00 (V.G. to Excel.)

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30-06 U.S. Enfield (Mfg. by Winchester, Remington, Eddystone), 6-shot. Only \$32.50. 2 for \$57.50. (V.G. to Excel.)

Norwegian Krag 6.5, 5-shot \$16.50. 2 for \$30.00; Barreled actions \$9.95. 2 for \$16.00. (V.G. to Excel.) 6.5 ammo \$7.50 per 100.

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(Continued from page 63)

stock straps are integral with the frame, a lot of useless screws are eliminated. Rear edge or face of the front sight is corrugated to eliminate glare. Firing pin is separate and rebounding, as on the Single Six. The little arm is precision-made throughout of excellent materials.

I gave the little gun a thorough test with Remington high speed .22 L.R. and found it exceptionally accurate, in fact it will stay under a fo-bit piece at 15 full yards from the muzzle if you are good enough to hold it. This I consider very good accuracy for fixed sights and a 4" barrel on a light weight .22 sixshooter.

Priced at \$49.50, the new Ruger Bearcat should enjoy enormous sales, as it is a quality weapon in every respect. Owing to its diminutive size, light weight, and excellent accuracy, many will prefer it to the larger Single Six, or any other existing .22 pistol. My hat is off to Bill Ruger for an excellent job of both design and manufacture. The little gun gets a clean bill of health from this reporter.

.270 Bullets

Speer Products Co. of Lewiston, Idaho, has an excellent heavy bullet for the .270 Winchester in their 170 grain. This makes a better big game load, to my notion, than any lighter weight bullet, including the factory 150 grain, Dominion Cartridge Co. of Canada, loads a 160 grain that I think is the best factory big game load for the .270.

New Adjustable Compensated Choke

The Multy-Choke Company (333 Roberts

St., East Hartford, Conn.) is now offering a new variable choke complete with compensator. The new choke is very similar, both in design and construction to the time-tried, famous Poly Choke, but with this difference: anyone can install it. The buyer can install it himself, or can have your gunsmith install it. He doesn't have to send the barrel to an authorized Poly Choke dealer. The new choke will be available only in 12 bore at first, but other gauges are expected later.

Anyone using a single barrel gun for diversified shooting should have one of these choke devices fitted, to give the different patterns needed. Ruffed grouse, quail, woodcock, and cottontails are usually killed at 15 to 25 yards from the gunner and should be taken with improved cylinder boring if you want anything left for the table. On the other hand, late season cock pheasants may run ahead of you for a quarter mile and then get up at 40 to 50 yards. You need a full choke for them, and also for pass shooting at waterfowl, either ducks or geese. The variable choke devices make one gun do all the many shotgun jobs.

The new Multy-Choke has its compensator behind the choke device, to bleed off pushing gas at this point so the wad column will have less tendency to drive forward into the base of the shot column and thus spread it. The new choke provides seven different settings, and all are available in one revolution of the sleeve, by a twist of the fingers. Sample sent us for test was very easily installed: simply cut off barrel back of choke, square up muzzle, then turn barrel back to fit the sleeve. Heat and solder in place with any good flux, cool and screw on the choke. And the job is done.

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1. The names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Publishers Development Corporation, 8150 N. Central Park, Skokie, Ill.; Editor, E. H. Mann, 8150 N. Central Park, Skokie, Ill.; Managing editor, William Edwards, 8150 N. Central Park, Skokie, Ill.; Business manager, George E. von Rosen, 8150 N. Central Park, Skokie, Ill.

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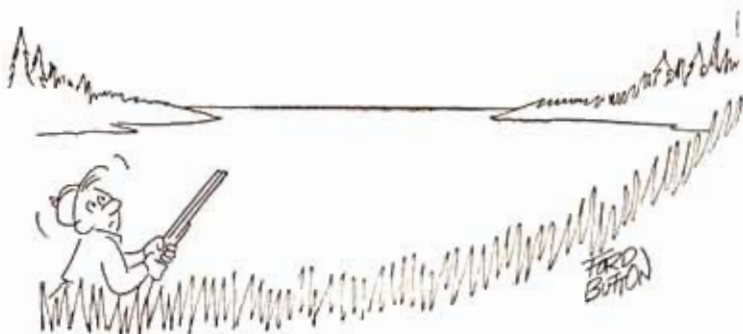
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