

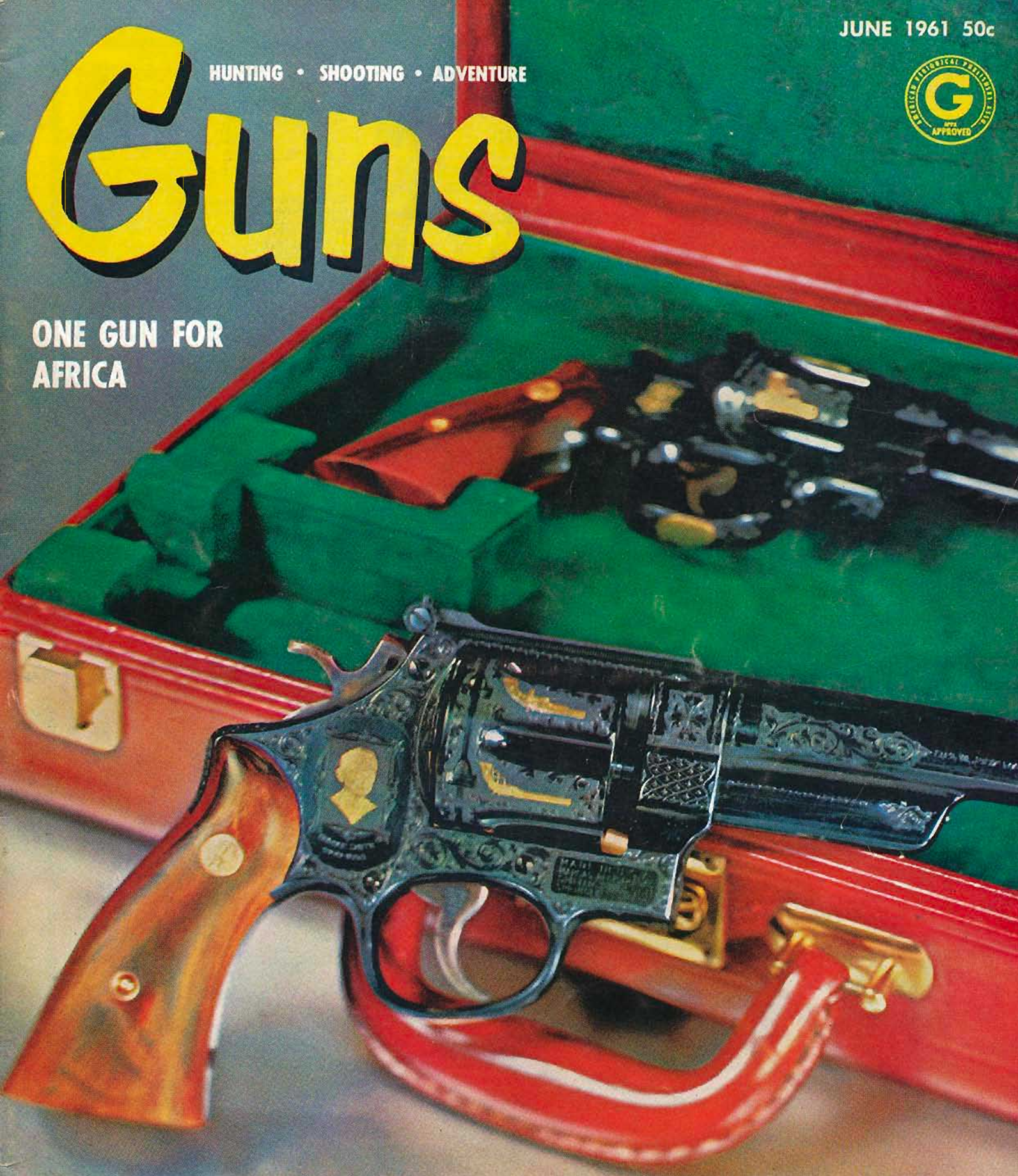
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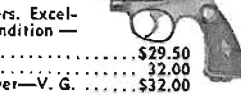
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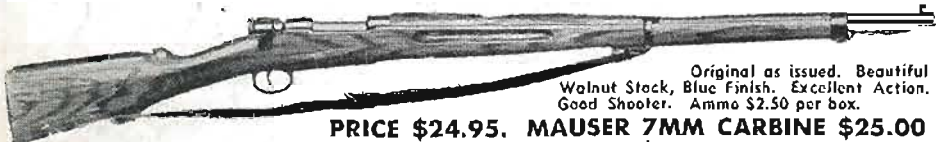
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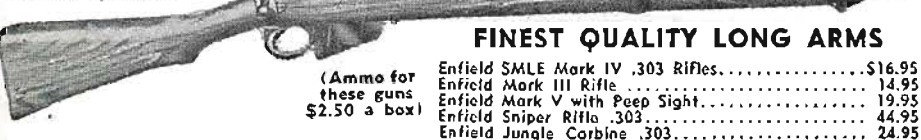
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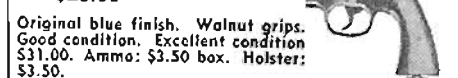
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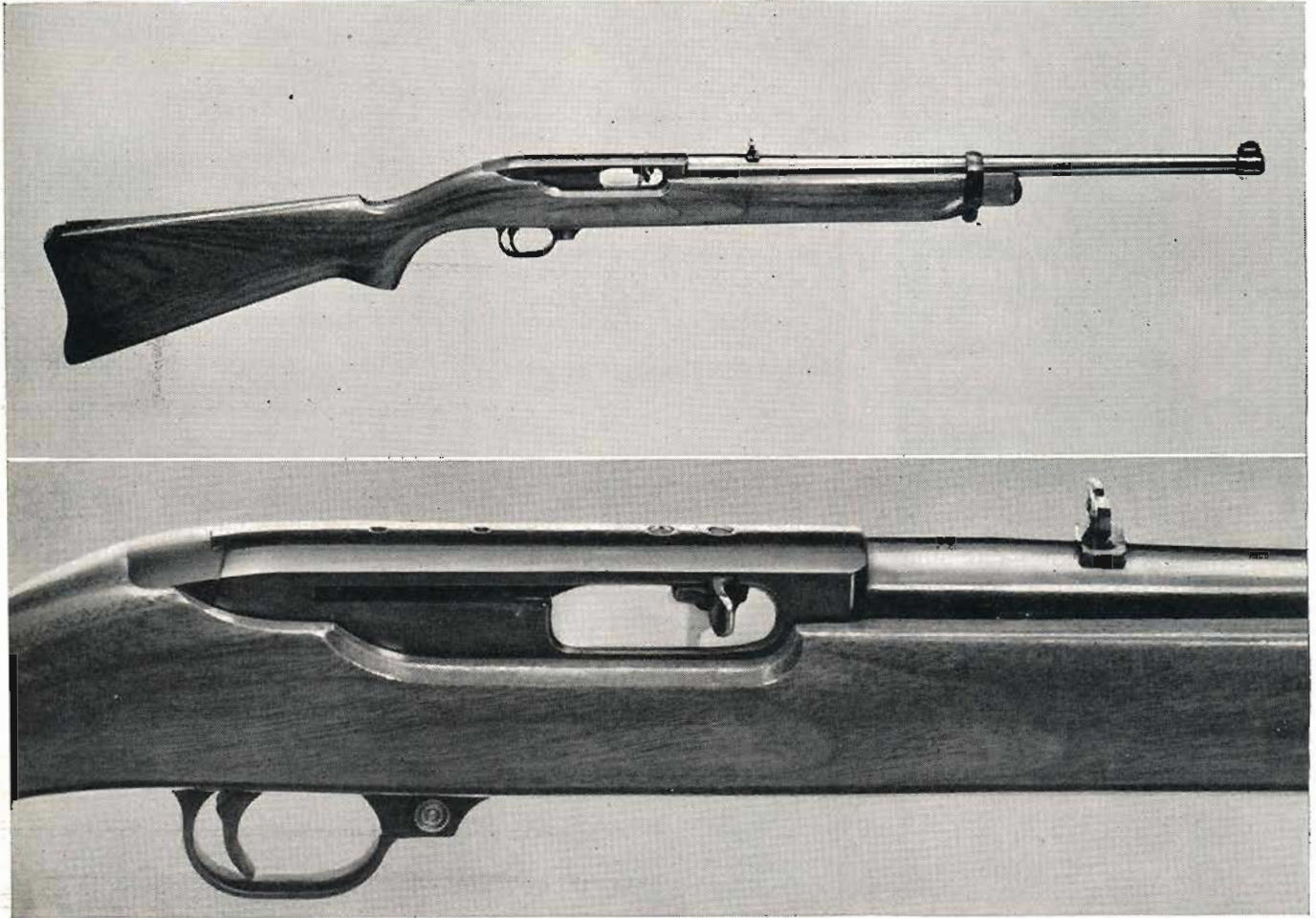
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KNOW YOUR LAWMAKERS

Congressman Earl Wilson
9th (Bedford) Dist., Indiana

WHILE PRESSURE GROUPS campaign, and rightfully so, against discrimination of various types in our nation today, it seems to me that Americans should be more concerned about the growing trend toward infringement on the Second Amendment to the Constitution, which guarantees the right to all to have and to bear arms. There is an increasing trend in the legislative bodies of the states and nation today to make it more difficult for Americans to own, keep and use firearms of various types. This seems to me to be as much of an insidious attack on a phase of our liberties as is any attempt to curtail any of the other freedoms. . . Having been a farm boy with a modest background, I grew up with a love for the out-of-doors and will always stand ready to guard the American privilege of having and using a firearm for peaceful, recreational pursuits. I also count myself among the number who feel it is a good idea to have a firearm around my home for purposes of protection. In addition to hunting, I greatly enjoy trap and skeet shooting and spend many leisure hours on the range. At present I am competing with the Prince Georges, Md., Rod & Gun Club in one of the best trap and skeet leagues in the east. Magazines such as "Guns" do much to foster interest in firearms and deserve the praise of all.

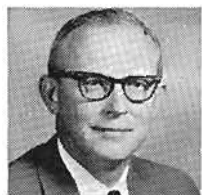


Congressman Paul Findley
20th Dist., Illinois

I . . . CAN OFFER very little comment at this time (on the 2nd Amendment). If you would like to send me some reference material, I would be glad to look it over and then give you my ideas.

Congressman James F. Bottin
2nd Dist., Montana

I HOLD AS INVIOLEATE the right of the people of this country to own and possess guns and to use them for any lawful purpose. The framers of our Constitution were men of vision and though the ideas may have been basically different at the time of the adoption of the Amendment, the reasoning applies equally as much today. It is my belief that the Federal Government has no right to regulate the possession of guns by the people of this country, but that this is the province of the states. The word "militia" is of special significance today. With the power of world destruction in the hands of a few men (some of whom need mental examination), the availability of people in the various states to be able to organize and provide for the protection of this country is vital. This would be a duty not only to the country but to our families. There are exceptions to any general rule. We must have some control over the interstate transportation of guns that are designed for violence or for evil purpose. I think specifically of the sub-machine gun. Montana, my state, provides a stiff penalty for the possession of this type of weapon. Any exception, however, must be studied with care and not passed in the heat of debate or passion. We cannot give up our right to defend ourselves, nor must we allow ourselves to be placed in a position of unnecessary regulation or registration.



Congressman William Henry Harrison
Wyoming at large

THIS AMENDMENT IS of importance in today's world, and it should remain un-abridged. In my opinion, the Founding Fathers' meaning of the word "militia" was used in a broad sense, not only to cover the organized military, but also to cover those who would be called upon to aid in defending this country in the event of an emergency. I believe that it was realized that the right to keep and bear arms was important, not only for the preservation of the country, but for protection of the individual. This right, of course, could be restricted through reasonable laws such as registration, but should never be completely eliminated.

. . . In reply to your question as to my name, I am the great great grandson of William Henry Harrison and a grandson of Benjamin.



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

Guns

FINEST IN THE FIREARMS FIELD

JUNE, 1961

Vol. VII, No. 6-78

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THE COVER

This magnificent pair of Smith & Wesson .357 Magnums were the property of the late W. H. B. Smith, whose story we published in the September, 1960, issue. Unique engraving includes portraits of founders of the S&W company and portraits of various S&W models, in gold, plus elaborate scrolling. Smith's collection of beautifully engraved S&W revolvers was among world's finest.

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EDITORIAL OFFICES: E. B. Mann, R. A. Steindler, 8150 N. Central Park, Skokie, Ill., ORchard 5-5602.
 W. B. Edwards, 843 Judson Ave., Evanston, Ill. Elmer Keith, Salmon, Idaho. Kent Bellah, St. Jo, Texas.

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THIS SEVENTY-EIGHTH issue of GUNS is the first in which William B. Edwards has not been listed as our Technical Editor. Mr. Edwards' resignation, which became effective March 1st, is not a severance of relations but merely a change of functions. Because of other interests, Mr. Edwards is no longer able to devote full office time to editorial duties, but he will continue to work with us in a close advisory capacity as Technical Consultant and frequent contributor. Bill's home address is 843 Judson Ave., Evanston, Illinois.

Replacing Edwards in our office staff is R. A. Steindler, formerly with Hearst Magazines, recently well known as a freelance writer in the field of guns and shooting. Bob Steindler's title on the masthead of GUNS, GUNS QUARTERLY, and SHOOTING GOODS RETAILER will be that of Managing Editor. We expect that his name will become even better known than it is now in all areas of gun publishing, the shooting sports, and the firearms industry. Bob is a devoted gun enthusiast, with a keenly inquiring, science-trained approach that will, we believe, benefit both GUNS and its readers.

Several new names appear also, with this issue, on our Editorial Advisory Board. As our new Military advisor: Col. Lyman P. Davison, chief of the Chicago Office of Special Investigation, USAF. Col. Davison is an expert in firearms investigation and identification, an ardent competitive pistolman (Master), and a hunter of wide experience.

To advise us in matters relating to Trapshooting we are proud to add the name of Dick Miller, widely known in the shotgun sports and well known to our readers as the contributor of our popular "Pull!" department.

Adding a new category as well as a new name, Jim Dee, Director of Shooting Promotion, Sportsmen's Service Bureau, will keep us up-to-date on the Junior Hunter Training Program in which he is an active leader. The work of Sportsmen's Service Bureau in the promotion of shooting sports has been the most progressive and the most effective new action in this direction that has been undertaken in many years, and we are pleased indeed to welcome Jim Dee as a member of our "family."

And, finally, joining Bill Toney as our advisor on police matters is Chicago Police Detective Frank J. Schira, President and Executive Director of the National Police Officers Association. Those who remember Schira's widely published statement of the NPOA's position in defense of civilian ownership of firearms will appreciate our pride in having him with us.

Other new names will be added to this Advisory Board in the months to come, and we will announce them as they occur. . . . E.B.M.

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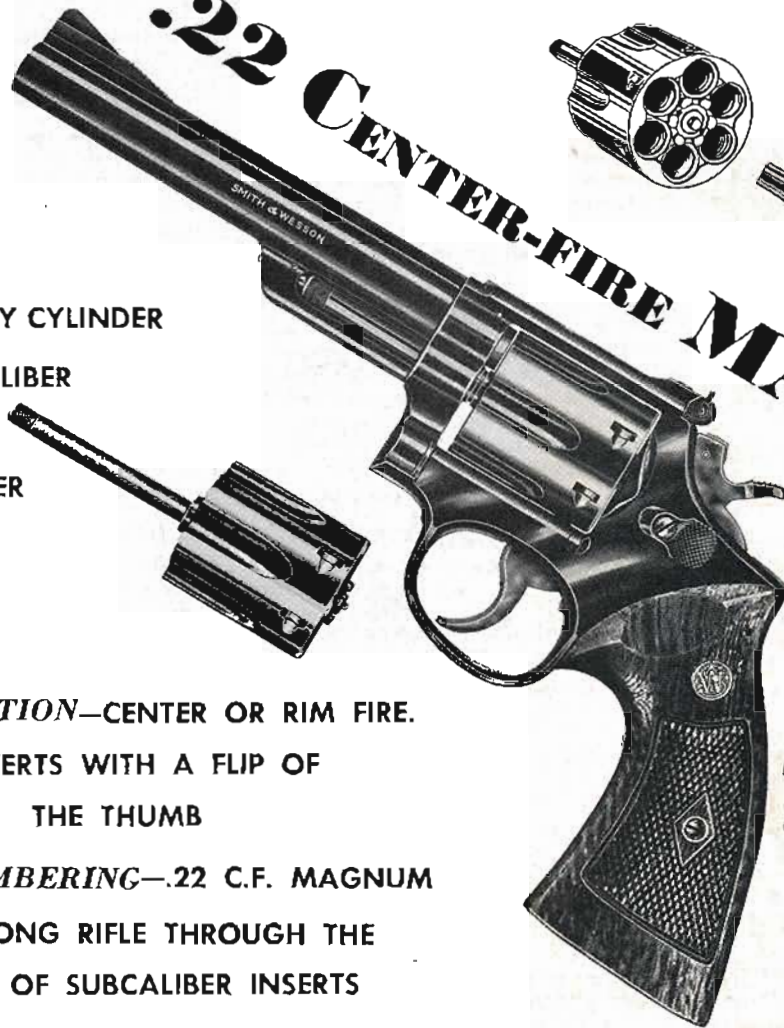
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Elmer Keith says . . .

The Ruger .44 Magnum Carbine

I was one of the men Bill Ruger invited up to his farm in New Hampshire some months ago to try out his new "Deerstalker" carbine in the .44 Magnum caliber. Bill asked all of us not to print anything about this baby until after March 21, but I see some of the magazines broke the deadline. Since it is Bill's gun and Bill was picking up the checks for the nice hunt he gave us, I think he had a right to set a release date and I'm glad Bev Mann, my editor, observed it. My story, along with Bill Edwards', about the "Deerstalker" is in Vol. IV of "Guns Quarterly," out April 1st, but I'll repeat some of it here, in case you missed it.

I have never favored automatics for hunting, and the new Ruger is a five-shot auto-loader, but it is a good one, and maybe my 30 years of work on the development of the .44 Magnum cartridge prejudices me in its favor. Anyway, I like it. The little rifle balances well and handles very fast, and should be ideal for timber shooting of deer and black bear or even larger game at close range. The .44 Magnum sixguns have demonstrated the effectiveness of this load on game, and the new jacketed Winchester-Western loads and the Norma .44 Magnum Carbine load should be even better. The "Deerstalker" is a real gun, not only as to fit and feel but also as to cartridge potential.

One of the things that appeals to me as an old timer is that this carbine combines with the .44 Magnum revolvers to make a rifle-handgun-cartridge combination similar to but better than the old .44-40 carbine-sixgun. The same cartridges will serve both the carbine and the revolver, and this should be a big selling point for hunters and also for law enforcement officers.

The new Ruger Carbine has smooth flowing lines, and the one-piece stock carries a rather full fore-end to house and cover the gas take-off and action rods. Take-down and re-assembly are fast and simple, the only tool being the rim of a cartridge to loosen or tighten a single screw. Safety is a cross bolt in the front of the trigger guard. Magazine holds four shells which, with one in the barrel, gives five shots as fast as you can pull the trigger. It loads slick and easy, and there is no detachable magazine to get lost or to get battered so it will not feed properly. Recoil is practically nil, being lighter than my two Winchester M92 carbines. Accuracy with the new Remington full jacketed bullets is a consistent 2½" at 100 yards, which is plenty good.

I predict that this new Ruger will become a very popular deer gun, especially for white-tails or for muleys in the timber. It will

also be fine for fishermen working the Alaskan streams where the big brown bear may be met at any turn. It weighs only 5 pounds 12 ounces, so it won't add much to the load. My hat is off to Bill Ruger for further improving the .44 Magnum load and for bringing out the first modern carbine for it.

.22 R.F. Magnum Smith & Wesson

We have been testing a little Smith & Wesson Kit Gun for the new .22 W.R.F. Magnum cartridge. This cartridge makes a real small game killer of the little gun. It seems just as accurate as a fine K-22 for the .22 L.R. or mag cartridge, but is a very much smaller and lighter gun to carry.

The little gun has ramp front and fully adjustable rear sight, and a perfect trigger pull. It would stay on a silver dollar at 15 yards, if you can hold it. Being smaller, it is a bit harder to shoot than a larger heavier gun, but the inherent accuracy is there and if you do your part it will account for any small game very nicely. It seems a far better killer even than the .22 L.R. high speed hollow point.

We took the little gun to Alaska with us, and it is ideal for killing spruce grouse or other small game, and it is so small and light you hardly know you have a gun on you. To my notion, this .22 Mag Kit Gun is the most effective small sixgun I have seen for the big game hunter wanting a very light auxiliary weapon for killing small game for the pot. It is equally useful and effective for the fisherman.

For a lighter load, we found the old .22 Special (or .22 W.R.F., as it is also called) made an ideal shot and light load in this gun. It seems to shoot exactly the same at close grouse ranges. This load would be good on frogs, cottontails, and other easily killed game; but the magnum load will prove better on big fox squirrels, big grouse, or sage hens. For anyone wanting a very light super-accurate, target sighted .22 caliber pistol that will really do the work, we heartily recommend this new S & W Kit Gun for the .22 Rim Fire Magnum cartridge. Jack Nancolas wants to kill some freed cougar with it, and it will do the job.

Bama Hair Socks

These are short moccasin-type socks of goat hair, to be worn over wool socks in rubber boots or leather top rubbers. We found by test that they do take up the natural perspiration and keep the feet warm and dry. With a couple pairs of them on a trip, the hunter or fisherman can have warm dry feet. They are fairly thick, and allowance must be made for them as to boot size, but they pad

the feet in addition to keeping them warm and dry. For sale by Bob Hinman Outfitters, Box 1222, Peoria, Ill., at \$1.95 per pair. These are almost unknown in this country, but are widely used abroad.

.300 H & H 220 Grain Norma

We used this ammunition from a .300 H & H Jefferson Rifle with K-4 Weaver scope in Alaska in taking a very nice small grizzly at long range. It was superbly accurate ammunition, and we knocked the bear over at 400 yards from prone position as she stood on her hind feet, and hit her again running at that range. All bullets expanded well even at long range.

I never did consider any .30 caliber as an ideal rifle for grizzlies, even small ones; but this load performed as well as any factory 220 grain .300 H & H we have used over the years, and I started using a .300 Magnum on game back in 1926. One of the guides also secured his mulligan bull moose at 200 yards with one shot that broke left shoulder and went on through heart. The bull ran about 60 yards, stopped, teetered around awhile, then reared and fell over backwards. The bullet broke the heavy shoulder bone before entering and smashing the heart. We were hunting with Don DeHart of Slana, Alaska.

Bohlin Police Holster

Edward H. Bohlin, 931 N. Highland, Hollywood 38, Calif., makes a very fine holster for all police and peace officers, to be worn on a Sam Browne or other wide belt. It has the belt loop fastened with heavy glove fasteners so the holster can be snapped on or off the belt in a few seconds. The pitch of the gun is adjustable in the holster, even allowing for use as a cross-draw holster. Adjustment is regulated by a glove snap on the back.

The holster is of stiff, heavy leather, fully lined. It covers and protects the rear sight, and incorporates his famous spring-operated safety strap with slot for the hammer spur of the gun. The gun cannot be jerked from the holster until that spring-loaded strap is jerked up and released.

All told, this is one of the most practical police holsters we have seen. It is made for the .44 Mag. in S & W or Ruger, or any smaller gun of most any make. For my own use, I would prefer it with a fixed belt loop to fit tight on a waist belt, and with the holster in the fixed position with butt tipped well ahead for my own plain clothes draw. Bohlin can make them to suit most any fancy, using finest leather and workmanship. Such a holster is good life insurance for the police or peace officer.

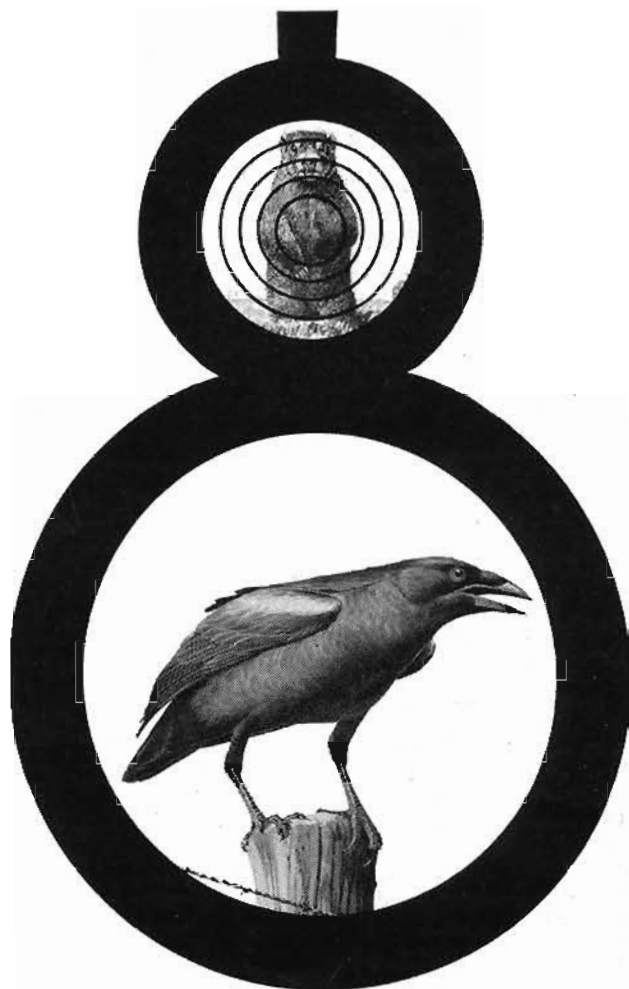
Speer Half-Jacket

Speer Products Co. of Lewiston, Idaho, are now out with their version of the Half-jacket .44 Magnum bullets. These bullets still incorporate something of my original nose and sharp shoulder shape, but the forward lead bands are smaller in diameter, evidently to prevent their slowing back into a shapeless blob of lead on the nose, as about all half-jacket bullets of pure lead core do when fired at high velocity from sixguns. These are very well made bullets in 225 grain hollow point or 240 grain solid. They load perfectly and easily, as the hard base jacket

(Continued on page 63)



**MODEL
24**



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for powerful 22 magnum
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CROSSFIRE

"Anonymous"

I have no respect for a man who sends scurrilous material through the mails and has not the courage to sign his name. On the other hand, I must minimally respect the caution of a man who knows better than to sign his name to some of the letters I have recently received without signature but bearing the postmark of St. Louis 3, Mo. I can agree in part with some of this writer's reference to anti-firearms legislation; but much of the rest of his missives are, in my layman's opinion, grossly libelous of men in high places. I suggest that my unknown correspondent cease writing me, and assure him that all of his letters to date have gone, and all future ones will go, to the federal offices of investigation I consider best equipped to handle them as they deserve.—E. B. Mann, Editor.

Antique Arms Data Wanted

As the author of a forthcoming book on U.S. Firearms of the 1816-1865 period, I am urgently in need of photographs or pictures clipped from magazine articles, etc., which clearly show the lockplate markings on all arms produced during this period by the following contractors;

| | |
|---------------|--------------------|
| A. CARRUTH | H. DERINGER |
| B. EVANS | W. L. EVANS |
| A. MCRAE | L. POMEROY |
| J. ROGERS | E. WHITNEY |
| M. T. WICKHAM | EDWARDS & GOODRICH |
| TRYON | B. FLAGG |
| E. BUELL | LANE & READ |
| MILL CREEK | N. STARR |
| A. JENKS | JUSTICE |
| KRIDER | SCHALK |

Many of the above were marked in more than one way. It is my desire to procure enough information to depict each marking variation of all of the arms produced by every contractor of the above period.

If you have information regarding any of the above, please contact:

Robert M. Reilly
3604 W. 84th Street
Chicago 52, Illinois

A Continuous Revolution

Among the most important of the articles you have published in your fine magazine were three about armed citizens for national defense: "22s For Survival," "Where Are Tomorrow's Minutemen?," "The Rifleman in Civil Defense."

I am glad to see that others, like myself, are interested in this sort of thing. More articles of this nature are in order. Especially useful would be an article on the basic equipment necessary in Civil Defense action. Probably much of such equipment would have

to be suitable to carry on the back in a pack.

I am deeply concerned by the complacency of many Americans; by their lack of interest in many of the things that have made America great. Democracy is a continuous revolution. Unless we realize this and stop being so busy with the urgent that we have no time for the important, this Great Experiment that we call "a Democratic United States" could fail.

Keep up the good work.

Richard V. Underwood
Stillwater, Oklahoma

Wants Trap-Door Rifle Data

I am gathering information and conducting serious research for the eventual purpose of writing a truly complete, accurate and comprehensive series of articles (or a book) on the U.S. Springfield "Trapdoor" longarms. It would be greatly appreciated and immensely helpful if owners and/or collectors of any model or type of Trapdoor Springfields would write me and supply information on their guns. As much data as is possible would be desirable, but as a minimum this information should include Serial Number, Model, Type (rifle, carbine, etc., for example), Description and dates of inspectors markings, etc. The more of this kind of information that I can accumulate, the better I will be able to establish relationships between serial number, date of manufacture, model, type, etc.

I am particularly interested in receiving data on the more unusual variations, such as experimental types, Officer's Models, Shotguns, etc., but information on ANY type or model is of value. In addition, official Ordnance publications, manuals, letters, etc., from the period from 1865 to 1894 are desperately needed. A listing of the full title, and date of publication of such documents would be appreciated.

Richard D. Branum
4049 McDermed Drive
Houston 25, Texas

Writers Please Note

I have been a regular reader of a number of American shooting & outdoor publications since about 1934, and spend many a pleasant hour reading over old numbers. It is both interesting and amusing to read the various buildups over the years that accompany the announcement of a new cartridge; the gun editors' "This is it" write-ups, followed later by the field reports. In due course, the ballyhoo dies down, the years of fault finding set in and pass on, until another arrives that "has everything." Such a cartridge was the .257 Roberts, now being talked out of business by the "six em-ems."

(Continued on page 14)



Is extreme velocity the only reason for owning a Weatherby Magnum?

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comb, slanting 45° fore-end tip, and meticulous hand checkering are unmistakably Weatherby.

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HANDLOADING BENCH

By R. MARK SQUIRES



RELOADING FOR BLACK POWDER RIFLES

ARE YOU the proud possessor of grandfather's old Sharps Buffalo Rifle? Have you given up the idea that it may ever be fired again? You are not alone in this belief. There are thousands of people just like you who possess these larger black powder rifles but cannot shoot them because the proper cartridges cannot be bought; but, you can make and load them yourself.

What are these larger black powder cartridges? For our purpose let us say that these are the cartridges brought out between 1870 and 1900 whose original loadings were 50 grains or more of black powder. A few of these cartridges such as the .38-55 and .45-70 are made today. The cartridges in question are all of the centerfire metallic type.

In 1873, Winchester introduced their new lever-action repeating rifle chambered for the .44-40. This rifle proved immediately popular, with 760,000 of them being manufactured. It gained fame as "The Gun That Won The West," a title it shares with the Colt Single Action Army.

The .44-40 was a great improvement over its predecessor, the .44 Henry Flat rimfire. It utilized a 200 grain lead bullet backed up by 40 grains of black powder to give a velocity of 1300 feet per second. It was quite adequate for almost all the then plentiful North American game, encountered at short ranges.

However, a demand was soon created for a repeating rifle which could use a larger, more powerful cartridge similar to the army's .45-70. Cartridges such as the .45-2.4 Sharps were then available but only in single shot rifles. Accordingly, in 1876, Winchester

brought out their Centennial Model rifle. This rifle was chambered for the .40-60, .45-60, .45-75, and the .50-95; the former two being shortened versions of the .45-70 Springfield. Other arms makers followed suit and soon we had a line of Ballard, Bullard, Marlin, Maynard, Sharps, Remington, Wesson, Winchester, and Peabody cartridges adapted to many varied repeating and single shot rifles.

The majority of these rifles were chambered for the "Express," "Buffalo," and "Long Range" rounds, ranging from .38 to .50 caliber and loaded with anywhere from 50 to 140 grains of black powder. The more common cartridges, some of which are still available in quantity were the .38-55, .38-56, .38-70, .38-82, .38-90, .40-50, .40-60, .40-65, .40-70, .40-82, .40-90, .40-110, .44-60, .44-70, .44-90, .45-60, .45-70, .45-75, .45-82, .45-85, .45-90, .45-120, .50-70, .50-90, .50-95, .50-100, .50-110, .50-140, and the .50-115.

A word of explanation concerning these rather intriguing sets of numbers is now in order. The early cartridges were named by their caliber, powder charge, and sometimes, bullet weight. An example is .45-70-500. The first number designates the caliber, in 100ths of an inch; the second figure is the weight of the black powder charge in grains; the third number gives the weight of the bullet in grains. When something like .45-120-550-3¼ is encountered, the last number is the length of the case. Most of the early Sharps cartridges were named according to caliber and case length, such as .45-2.6. With the exception of the .38-55 and the .45-70, none of these cartridges are manufactured today.



Cartridges above, from left to right, are: .44-70 Sharps Necked; Model 1882 Maynard; Ballard; Sharps Straight; Winchester Model 1886; Peabody "What Cheer"; Bullard; Model 1873 Maynard; and, last, percussion Maynard.

Where, then, will the prospective reloader for a fine old Sharps or a Winchester '86 get his cases? What loads should be used?

The first question, seemingly the hard one, is relatively simple to answer. Many of the old cartridges were simply necked down, lengthened, shortened, or otherwise modified versions of a common existing case. Today's wildcatters are nothing compared to yesterday's arms maker. The most common round was the .45-70, which was modified to form over 20 different cartridges! A few of its offshoots were the .38-56, .45-60, and .45-90. These were necked down, shortened, and lengthened versions of it. If the case you have in mind is less than 2.5" long, has a body diameter of .502 (roughly), and a rim diameter between .598 and .605, it may be made from re-sized .45-70 brass. Many other currently manufactured cartridges may be used as the basis of an older round. The large British Express rounds, like the .450 and .500 Nitros, may be used to make such cases as the .45-120, .38-90, 50-140, and other 3 1/4" cases. The .405 Winchester and the .348 Winchester may also be used to form such cases as the .38-72 and .45-75. Basic cartridge cases for use as-is, or by re-forming, are distributed by Nonte-Taylor, Inc., 1112 Bueva Vista, Decatur, Ill.

The owner of an old rifle who wishes to make cases for it should first obtain the measurements of the original case and match it to a currently manufactured case. The .45-70 may be used as is in many of the straight case .45's with a case 2.10 inches or longer. To make up for the reduced case length the bullet need only be seated further out.

What loads should be used? We are now at the crux of the matter. It is possible to make a fairly accurate generalization which works for all the rifles of a given caliber. The question is divided into four parts and each is treated separately.

The basic four parts concern the components of the finished round.

First, the case. This has been discussed previously. Re-formed cases from new brass are to be used. Even if original cartridges for the rifle are obtainable, they are usually in too bad a condition to be worth the trouble of deactivating and reloading them. Some are more valuable as collector's items.

The primer presents hardly any problem. If modern reworked cases are used, the primer for which they were designed should be used. For example, .38-70's are being loaded in sized .45-70 brass. The primer to use is the large rifle primer.

What powder should be used? Most of today's smokeless rifle powders are not at all compatible in rifles of 1870-1900 vintage. On the other hand, why use black powder? It has no real advantages, but presents problems of fouling, messiness, and laying down a smoke screen, which are not necessary.

The one powder that works well in all of these rifles is Unique. It develops low pressures, is easy to handle, and does not make you unpopular at the range. What is more, it is extremely economical.

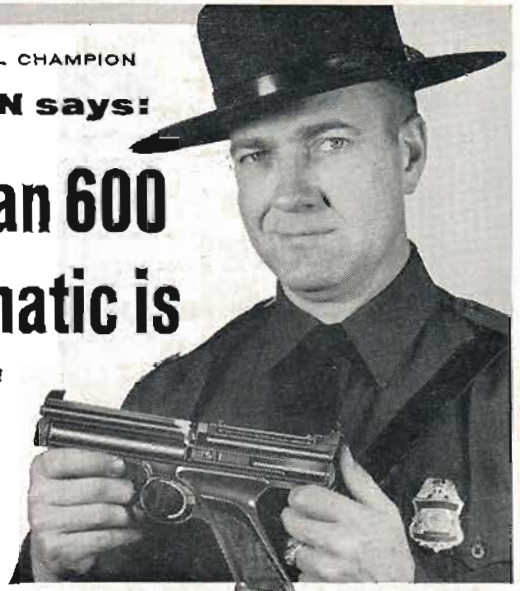
Unique came out in 1898. It has been successfully used since then in practically every cartridge and is also good for blasting tree stumps. It is a fast burning powder of the double base type, primarily used in heavy revolver loads and reduced loadings of big-bore rifles.

(Continued on page 46)

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Johnson Smith Co. Dept. 954 Detroit 7, Mich.

(Continued from page 10)

Kent Bellah, in the February issue, states that a good .244 extends varmint hitting to 400 yds., and possibly 450. He goes on to say that "400 yds. is a pretty fur piece to blast fur out of Texas jacks consistently." This 400 yds. maximum is further confirmed by Elmer Keith in his account of the .264 Win. on jacks, in the July number. This from a mighty shooter with a mighty gun, from a bench position over the cab of a truck.

I never tire of Mr. Keith's stories. You can really smell the bush and wild game in them. One written for another magazine in May, 1936, on "Off-Season Shooting in Idaho" is most enjoyable and food for thought in this enlightened 1960. Writes Mr. Keith of those good old days: "... Have used a .257 Rem. Roberts and factory ammunition a great deal this year and killed well over a hundred each of chucks and jack rabbits with it. The chucks up to and including 350 yds. and the jacks up to and including 480 yards range. My note book shows four kills of jack rabbits on my last trip at 450, 460, 475, and 480 yds. I used the 87 gr. bullet at 3350 ft., using an eight-power Lyman Targetspot scope, shooting from prone position with sling before witnesses."

With the great influx of recent new calibres, from the sublime Win. .22 r.f. Magnum to the ridiculous .257 Condor, could it be that 1960 shooters are being over-gunned, and as a result are deteriorating in marksmanship? Or is it possible that the .243's, .244's and .264's aren't much, if any, better in the field than our old .250's, .257's, and .270's with 1960 loads. From my own

experiences and observations here in South Australia on our game, the latter appears to be a distinct possibility.

Thank you for a year of really good publications. And tip your writers to save their old articles and read 'em over once in a while. It'll improve their shooting!

J. E. Mansfield
Somerton Park
South Australia

Needless to Say

I enjoy your fine magazine very much, think it is one of the best. But the article "Tune Your Luger For Targets" turned my stomach, as I'm sure it did other Luger collectors. The beautiful rare Luger carbine that you picture certainly is a fine way to devalue a gun fast! I would have liked the article much more had you made a point of explaining that some Luger models are worth more in their original state and, if only for the sake of us poor collectors, should not be altered. Needless to say, it would be a shame to ruin a rare 1902 or 1904 piece, of which there are only a few in existence.

John D. Kneibert
DeKalb, Mississippi

Trail Blazers

Mann had a good editorial on the 73rd issue of GUNS. You guys have blazed one hell of a trail, wide and long, and have done more to promote shooting than any magazine before or since. The way to get things done is to turn the job over to a guy like your publisher, who wants to make money and is willing to pour a few bucks in the kitty on the chance that he may get a return. Since I wrote my first piece for you in 1955 it has been a pleasure to be part of GUNS and perhaps contribute some small help in making it "The Finest in the Firearms Field." The imitations I've seen have let their ignorance show up like a sore thumb, all too often. You guys in the office oughta beam with pride. I do.

Kent Bellah
Saint Jo, Texas

A Colt Convert

Last summer I had the privilege and pleasure of spending a day at the Colt Patent Firearms Manufacturing Company at Hartford, Connecticut. I was amazed at the meticulous attention to detail I witnessed in a so-called mass production factory. I watched skilled workmen use all types of gauges. The fitting of the parts was by hand, filing with different files and various kinds of hones. The barrels were rifled to a mirror like appearance, and the tolerances were terrific.

Before receiving their famous VP (verified proof) mark, Colts are all target tested and fired with heavy overloads. Then and only then, if the gun passes these extreme tests, does it receive the VP mark.

If Samuel Colt could walk through his factory today he would be proud of the company's efficiency and of the superb new Colt pistols.

Dr. Sherman B. Kepple
Cleveland 24, Ohio

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These 8- and 10-power scopes provide the precision accuracy needed for shooting at extreme ranges and small targets. Adjustments are ¼ minute micrometer click. Reticle is constantly centered. Objective lens has range focus adjustable from 50 feet to 1000 yards. K8 or K10, \$59.50. See them at your sporting goods dealer.

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GUN RACK



By THOMAS R. RICHMOND

Should We Adopt the 9 mm Parabellum?

ONE OF THE hottest controversies in ordnance circles today is whether or not the United States, as the leading member of the North Atlantic Treaty Organization, should adopt the 9 mm Parabellum (or Luger) cartridge. The 9 mm is standard throughout NATO and most of the other nations of the world, as is the 7.62 mm NATO (or .308 Win., if you prefer) which the United States recently adopted along with the new M-14 service rifle. It is obvious that standardization of small arms ammunition would be of great advantage in combat, since many situations are possible where the NATO powers will be literally, and not figuratively, fighting side by side. The advantages of the .308 over the government .30-06 are clear cut, but not so with the 9 mm Luger and .45 ACP rounds.

Those who favor the .45 ACP scream that it is a battle-proven killer, that the United States has millions of stockpiled .45 cartridges, and that to adopt the 9 mm would make obsolete millions of Model 1911A1 auto pistols, the current sidearm of our military forces. On the other side of the fence and shouting just as loudly, the proponents of the 9 mm Parabellum state that the 9 mm is the most popular pistol and submachine gun round in existence today, and that it is the current military cartridge of most of the major and minor powers of the world.

Ballistically speaking, the .45 ACP moves a 230 gr. copper-jacketed slug at 860 fps with 378 ft/lbs of energy, and the 9 mm Luger a 125 gr. jacketed bullet at 1150 fps with 365 ft/lbs of energy. These energy figures are practically valueless and are noted for information purposes only.

Before we can discuss intelligently the relative merits of the two rounds, we must first know exactly what makes a bullet kill, and what makes one pistol round more powerful than another. In 1906, the U.S. Army ran a series of tests for the Thompson-LaGarde committee to determine what makes a bullet kill. This is the prime military consideration—a soldier must be able to kill effectively with a minimum of shots fired, preferably one. Human cadavers, mules, and steers were used to simulate actual conditions as closely as possible in the experiment, and definite conclusions were reached. The killing and shocking power of a given bullet depends mainly on five factors: velocity, shape and composition of the bullet, its weight, its diameter (cross-sectional area), and the momentum (mass x velocity) that it possesses.

In other words, the ideal bullet that would transmit the maximum shocking and stopping

power to a human target would be of relatively high velocity, be made of lead in a blunt shape with no jacket, be relatively heavy, and be of large diameter. Both the 9 mm Luger and the .45 ACP possess one or more of these desirable characteristics, but neither has all of them, so a compromise must be sought. General Julian Hatcher has formulated a system for calculating relative stopping power based on the above factors, and comes up with a value of 29.4 for the 9 mm Parabellum, and a value of 60.0 for the standard government .45—which means that according to this system, the .45 ACP is twice as powerful as the 9 mm.

This in itself should give the vote to the .45; but unfortunately the military must take another factor into prime consideration, and that factor is penetration. A bullet's power to penetrate objects is important when your enemy is wearing body armor (like the Red Chinese and North Koreans wore dur-

(Continued on page 43)



Nebraska prairie dogs, farm pest and favorite target

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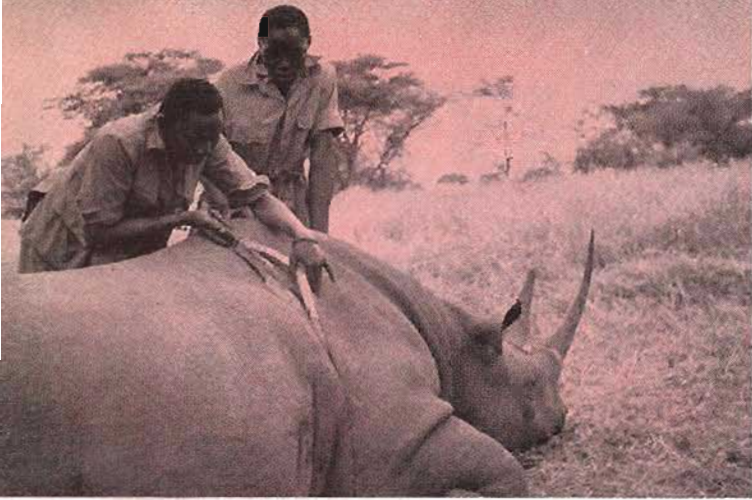
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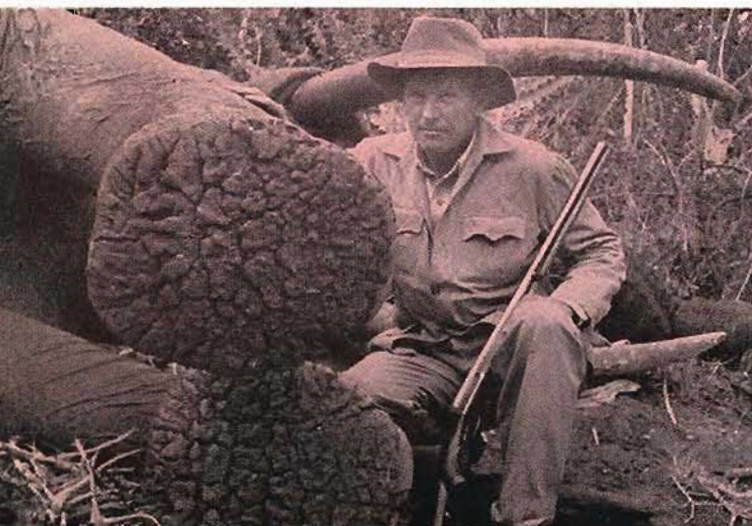
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Hibben took thick-skinned and dangerous game, plains game, with .300 Magnum, but shot first elephant with White Hunter's big .470 double.



HERE AGAIN IS THE OLD DISPUTE ABOUT THE ALL-AROUND RIFLE. BUT BE SURE YOU READ THIS ALL THE WAY

One Gun For Africa

By FRANK HIBBEN

Frank Hibben is a college professor, noted anthropologist, writer, and a hunter whose wide experience and skill entitle him to a hearing in any company. Coming soon—other stories on other men's "all purpose" rifles.

THE FELLOW WHO advocates any rifle as the all-purpose rifle has even less regard for his own popularity than the man who judges a baby contest in his own county. The judge who picks the prettiest baby winds up with at least one friend—the winning baby's mother. The man who picks the all-purpose rifle is likely to have no friends at all.

In many articles right here on these pages, experts have proved with ballistic chapter and verse that there is no such thing as an all-purpose rifle—even for deer. If you are going to hunt the Virginia whitetail in his brushy thickets, you need one rifle; if you will hunt the mule deer of the far west, you need another. If your quarry is to be something heavy, like moose or elk, or something potential-



Ikoma tribal warriors, who kill lions with spears, wear lion manes as head dresses, performed ritual dance in honor of author's blond-maned Tanganyika lion killed with one 40 yard shot from Weatherby .300.

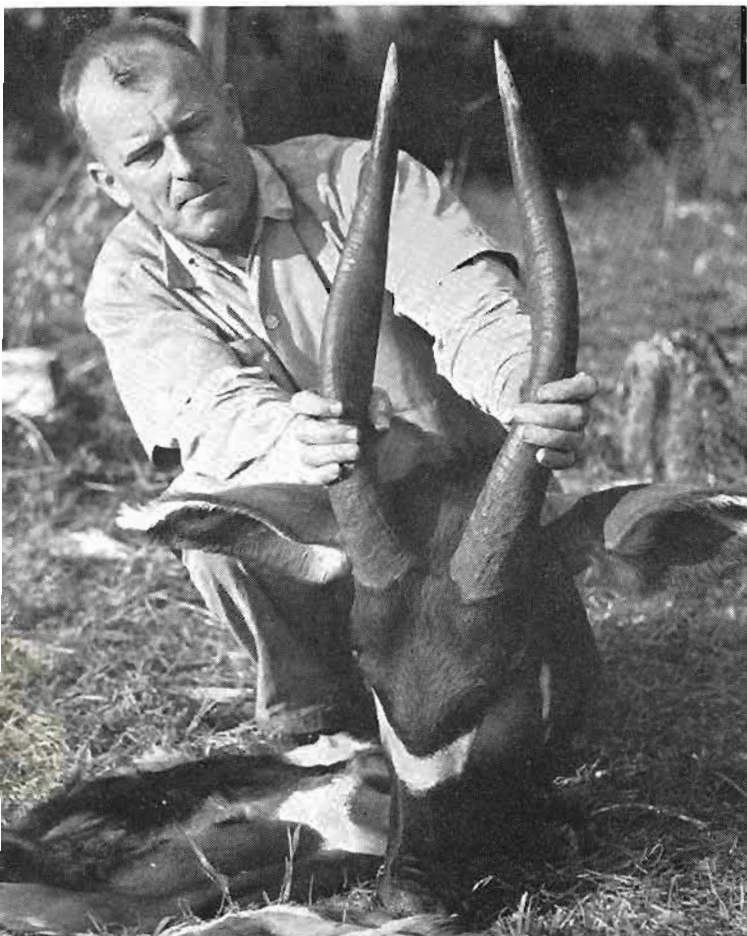
ly unpleasant, like bear, the experts divide again into at least two groups. Elmer Keith, with a very large following, advocates a big bore and a heavy slug. "Hit 'em where it hurts—with something that matters." . . . But there is also a vociferous group which argues that a smaller bore with plenty of zip is all you need for a caribou or a grizzly. A .264, they tell you, will kill any bruin, and do it from such a distance that, if the excitement grows too intense, you can throw the rifle away and climb a tree . . . Thus are the lines drawn between the big slugger group and the advocates of tiny bullets at express velocities.

Even among varminters there are divided opinions, to state it mildly. The fact is that the hunting of any kind of game anywhere in this weary old world divides the faith-

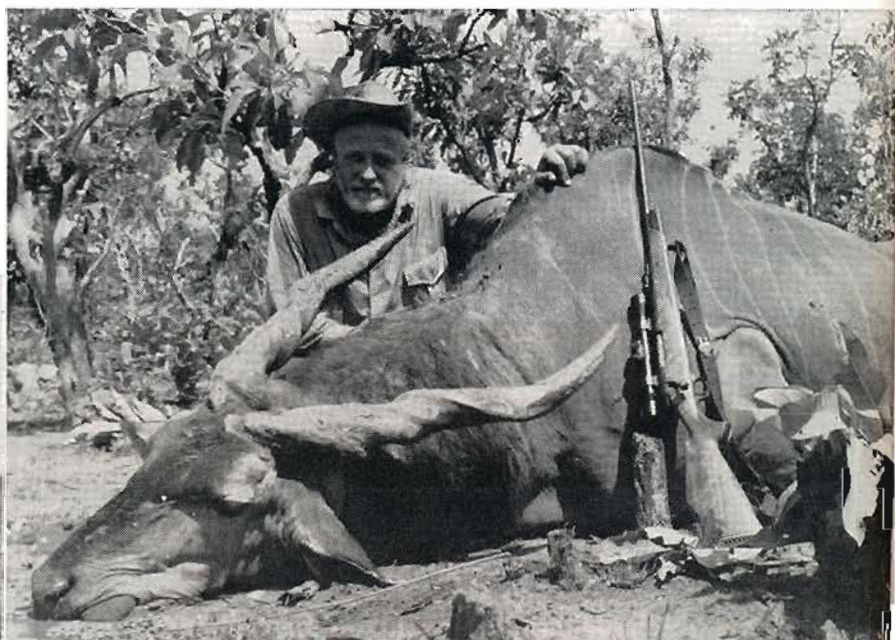
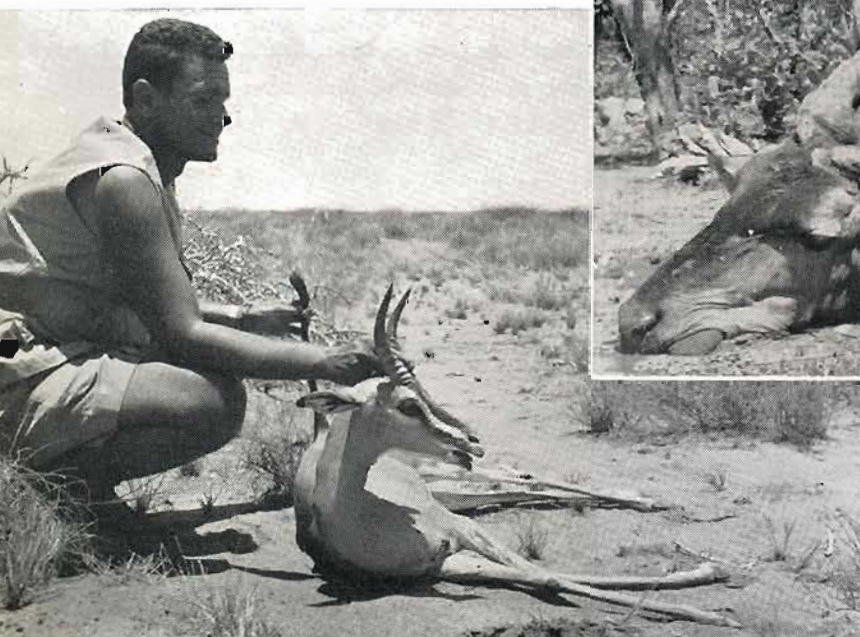
ful into almost as many circles of backers as there are makes, calibers, and bullets—or more, because one must not forget the wildcatters who dream up their own calibers and roll their own fodder.

So why can't I have a Hibben Circle? If I'm its only member, so be it.

I got into the all-purpose rifle thing quite accidentally on my first trip to Africa five years ago. I simply couldn't afford the battery of beauties I had seen and envied in the pictures of the well-armed African hunter. In fact, I couldn't even afford a second rifle. I figured that my rifle was plenty good enough for the plains game, and if it wasn't good enough for the thick-skinned game, and beasties that might bite, I'd rent a rifle. From the volumes you



It took eight weeks of hunting, one shot from Weatherby .300 at some 30 yards, to bag rare Bongo antelope (above). Most plains game shots were 300 yards or more.



Not Hemingway, but present Lieutenant Governor of New Mexico Tom Bolack, with his giant Eland.

Extremely rare Dibatag (left) was taken at 400 yards in Somalia in 1960 with the .300 Magnum.

read about them, you'd think that .470 to .600 British double rifles would be, down there, a glut on the market—but they're not. By no means every White Hunter or safari agent has an extra; and those who do ask \$10 a day rental, plus ammo at a dollar or more per round. (I flinched every time I fired one, and it wasn't all recoil!)

So, by necessity born of economics, and maybe, too, partly by sheer perversity, I lived through most of my safari with only one rifle—a Weatherby .300 Magnum.

I should add here and now that in so doing I lacked the full approval of the White Hunters. These men, I found, have somewhat fixed opinions about firearms. Among the Kenya White Hunters, I got the impression that if it doesn't smell like cordite it isn't a gun. My own White Hunter on that junket, one Andrew Holmberg, handed my Weatherby back to me after an examination and remarked in his quiet, British colonial manner, "You may find that a little light against elephant . . . but it will be all right for dik-dik." Dik-dik, as if you didn't know, are the smallest of all antelope. They weigh about eight pounds. Andrew, in the British vernacular, was "pulling my leg." But he wasn't *just* kidding; he believes in the big rifles.

Since the Weatherby was all I had, it rather goes without saying that I used it. I used it quite a lot. At that time, there were still a few corners of Kenya which had not been hunted, and Andrew took us—my wife, Brownie, and me—into one such corner. What with hunting for trophies and hunting for meat for the pot, we shot 30 species in the first week of hunting.

To feed the Weatherby, I had brought along a supply of 180 grain soft-nosed, some factory loaded and some homemade. I had also some boxes of (Continued on page 39)



Why Not Learn From this Design?

By HARVEY BRANDT



Jap LMG of WWII reveals few parts, construction simple as a pocket pistol, to take full-caliber 6.5 ammo. Design details suggest U.S. might do well to study the principle of blowback guns.

NOTHING INTRIGUES the gun crank more than a strange weapon, when the weapon is a machine gun. When some of the most informed experts in the field are unable to provide anything other than baffled expressions or vague theories when confronted with it, the crank's curiosity changes to fascination, and an intense desire to identify his find.

Such a weapon is this so-far unidentified Japanese Light Machine Gun. Although the gun has typically Japanese

characteristics, there is a complete absence of any identification other than a two-digit serial number, and the symbol painted on the magazine, which, translated, means "Honor." The only information regarding the history of the gun was obtained from the former owner, who stated that "the son of a widow of a friend" brought it back from the Japanese home islands in 1945.

The following technical data was taken during a personal examination of the weapon. (Continued on page 52)

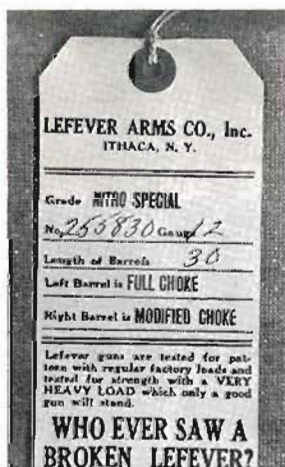


The LEFEVER No Money Can Buy

By COLONEL GEORGE W. BUSBEY



Gun and gunner (above) match memories of years past with plans for years to come. Arrow (left) points to owner's name; engraver's signature is in scrollwork, trigger guard. Note slogan on tag.



EXTRACT FROM letter of Sheldon M. Smith, President of Ithaca Gun Company, dated 25 February 1958:

"Your letter arrived at our plant almost on the birthday of your Nitro Special. Our records show Lefever Nitro Special Double No. 255830 was started in our plant February 28th, 1928. The records show it to be a 12 gauge gun with 30 inch barrels, originally choked full and modified. The gun was proof tested on March 26th, 1928, utilizing Remington Proof Loads. Work was finished on the gun on September 17th, 1928, and it was shipped out of our plant on November 1st, 1928, to the Montgomery Ward Company."

I was a second lieutenant student officer then, at the Cavalry School, Fort Riley, Kansas. My pay was approximately \$143.00 a month, before deductions. The price of a Lefever Nitro Special was \$28.00. I did not have \$28.00, and I disliked debt. Nevertheless, in March 1929, I received the heretofore described Lefever and bound myself to pay for it by the month.

Eventually, I received title and a metaphorical key that has unlocked many a golden door on three continents for more than three decades. How much longer we twain may weave our tapestry of memories is unimportant. Priceless is the knowledge that my gun has given me faithful service and something more: it taught me never to alibi a miss,

never to blame the gun or load, never to regret the one that got away. It is an honest gun.

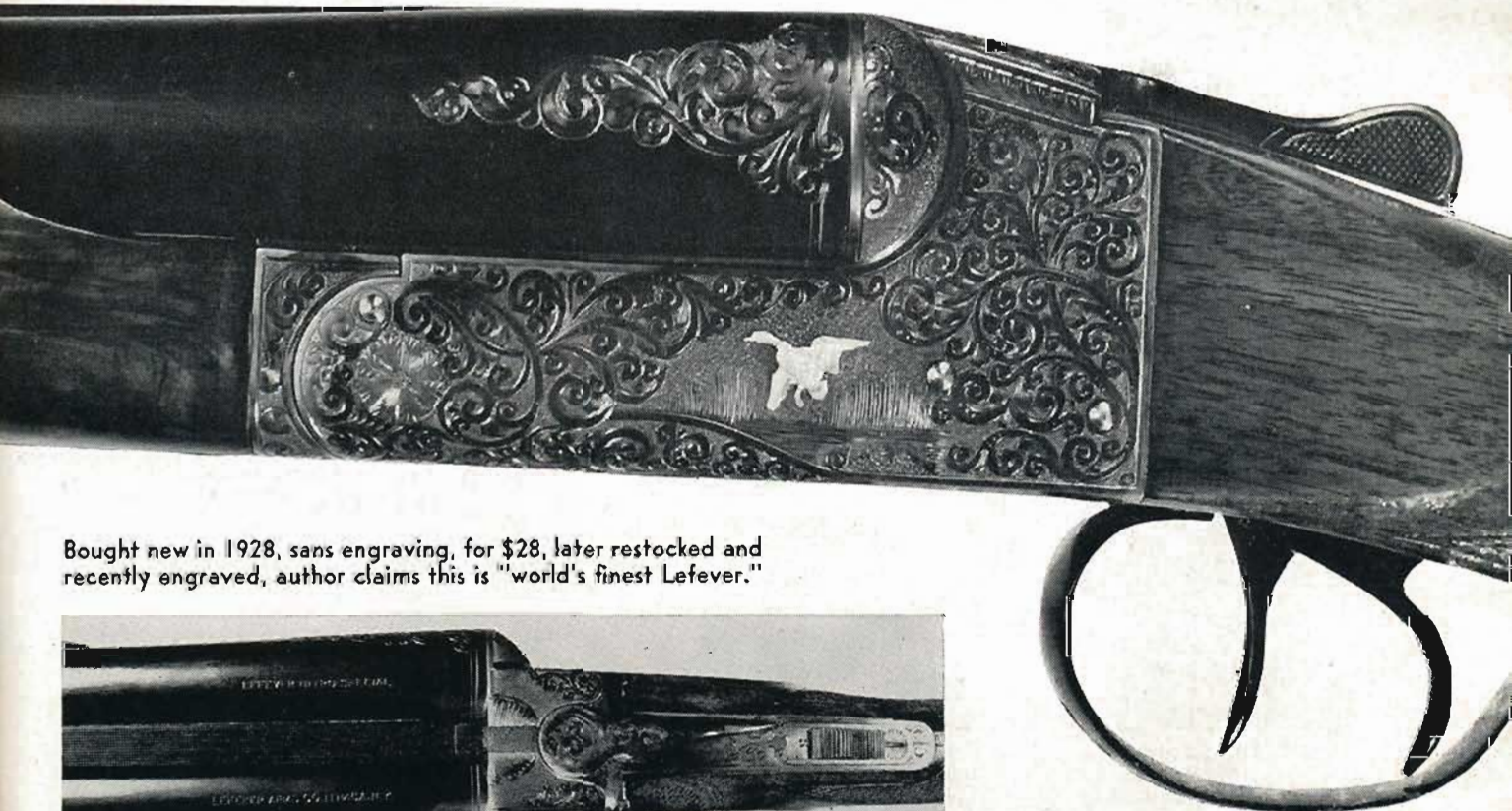
Fort Riley's environs were a quail hunter's paradise, but the open season was only 11 days a year. For a considerably longer period, there were doves and ducks. I could hit quail and doves, but not ducks. My mentor, First Sergeant William Morrow, 9th U. S. Cavalry, and the Lefever, tried to teach me the secret, but my ability to read and my inability to ignore the dogma of numerous writers kept me in the duck eight-ball class for a lot of years. The honest but well disciplined Lefever had a bad time while I tried to apply the various formulae of *leads* which, allegedly, were necessary to kill ducks. Along the way, I took up trap shooting, and there, after being further irritated by well meant advice, finally learned that each man and his gun is a wedded combination, a law unto itself.

I killed a few ducks and, while standing beside Whiskey Lake as a gale blew the cattails to a leaning rest, snapped a shot at a passing wisp of snipe and killed seven. This added to my knowledge that snipe were among airborne things not necessary to *lead*, and must have convinced the Lefever that I was progressing toward sanity.

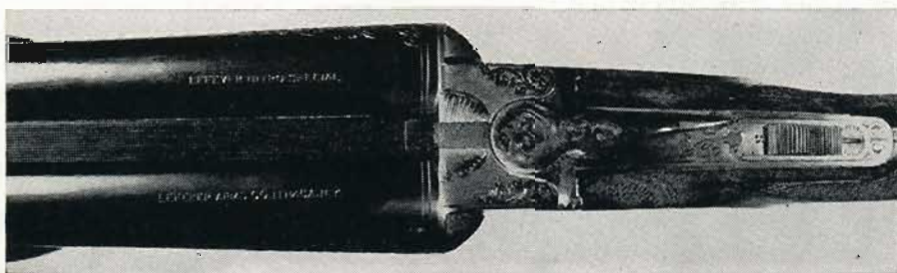
Moving to Fort Meade, South Dakota, in 1933, and on to northern Minnesota, I shot ruffed and sharptail grouse and discovered some good snipe territory. We learned something about snipe, and we (Continued on page 41)

AFTER 33 YEARS AND UNCOUNTED THOUSANDS OF SHOTS, ONE AND ONLY

"BUSBEY GRADE" LEFEVER IS —NOT FOR SALE!



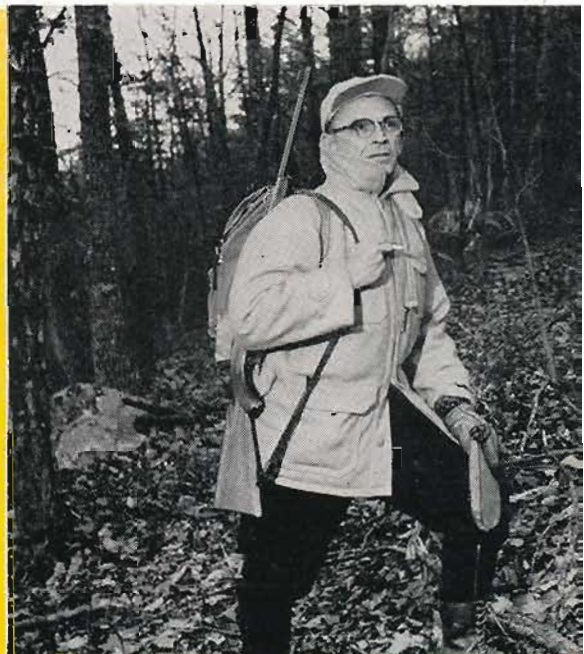
Bought new in 1928, sans engraving, for \$28, later restocked and recently engraved, author claims this is "world's finest Lefever."





A cozy hour over a map the night before, plus compass and a cool head, are cheap insurance against miseries and dangers of being lost.

A little forethought and a few tips from experienced hunters regarding garb and gear can prevent a lot of unnecessary hunting woes.



**You Can't Hit 'em,
If You Don't See 'em!**



TOO OFTEN, THE VETERAN WHO FILLS HIS TICKET YEAR AFTER YEAR WON'T TELL HOW HE DOES IT. HERE ARE A FEW OF THE "SECRETS" THAT BAG WHITETAILS

By CHASE HUNTER

THE WOODS were quiet and still. Every little noise re-echoed from tree to tree, and a frisky squirrel scampering through fallen leaves sounded like a rhino rumbling through piles of crumpled cellophane. An occasional breeze shuffled the leaves and startled the waiting hunter. He would watch intently for a while, not quite knowing just how a deer would sound if one should come.

Sitting still is a real problem when you think the frost is hanging in icicles from your nose, and you know that flapping a red handkerchief is not a way to entice a wily whitetail to within gun range. And don't let anyone kid you, it's damned cold in the woods at daybreak on a West Virginia mountain in December! The hand warmer had long since been shifted from the outer coat pocket to rest beneath many layers of clothing against a bare belly where blood could circulate the heat. It helped, but a couple more like it would have been welcome.

The hunter could hear a small hunting party over on the next ridge, driving down toward the valley, so he waited and sat as still as his shivering muscles would allow. Every chipmunk became a stag, and every falling leaf thundered against its brethren on the ground like the clomp of a cleft hoof... Then there was a noise that was different.

Through the dense brush, the noise came slowly toward the hunter. It would stop momentarily, then come a little nearer. A brief glimpse disclosed a patch of brownish fur, and the tension grew.

Suddenly the whole animal came into view. He was watching back over his shoulder toward the noise of the drivers, and he was moving ahead of them. Then he must have decided that the intruders would pass him by, for he calmly lay down next to a windfall.

Can you shoot a deer when he is down? What rules apply?

You can't hit a man when he's down, and you can't shoot a duck sitting on the water. What is the rule about a bedded-down deer?

Perhaps if that lever action Model 64 had had a scope, a rule would have been written. But it had a peep sight, with the disc removed for better vision. Several times, the hunter raised the rifle, but he just couldn't get a good sight picture among the many shades of brown. It is difficult to distinguish between fur and autumn leaves at 100 yards in the woods. (Continued on page 55)



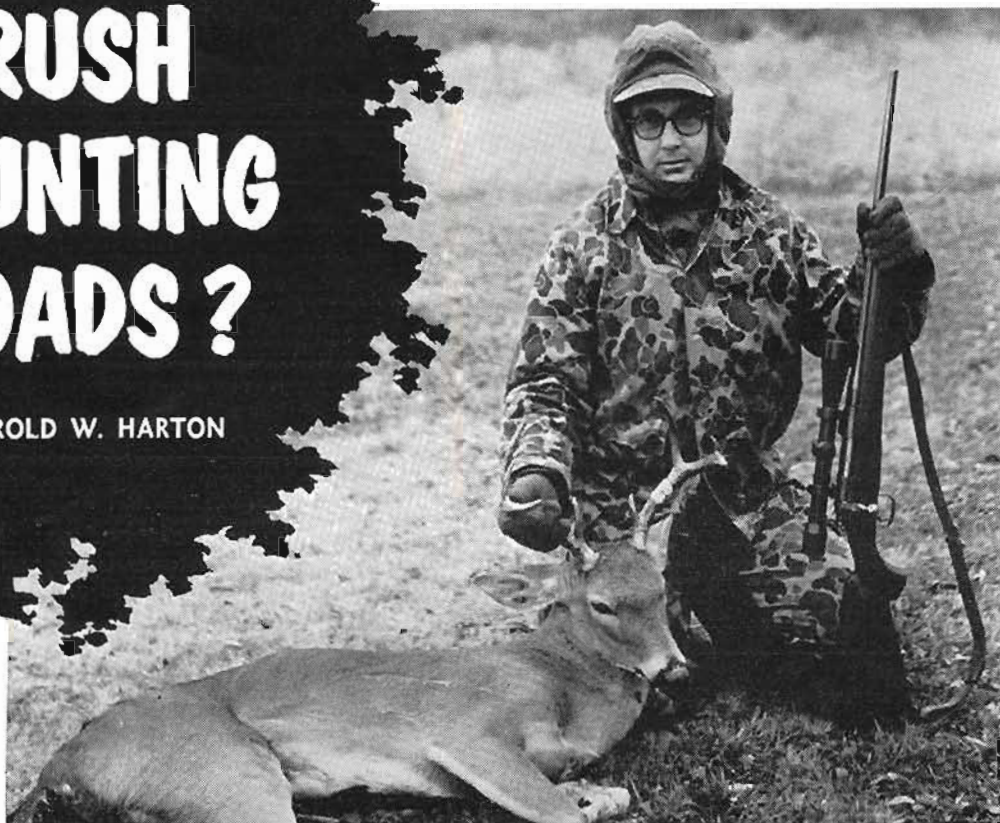
Take it from the voice of experience, the most precious single item of hunting gear is a good camp cook! If you are one, your welcome is assured with any party.



WHAT IS A BRUSH LOAD AND WHAT
ISN'T DEPENDS ON WHO'S HUNTING

BRUSH HUNTING LOADS?

By HAROLD W. HARTON



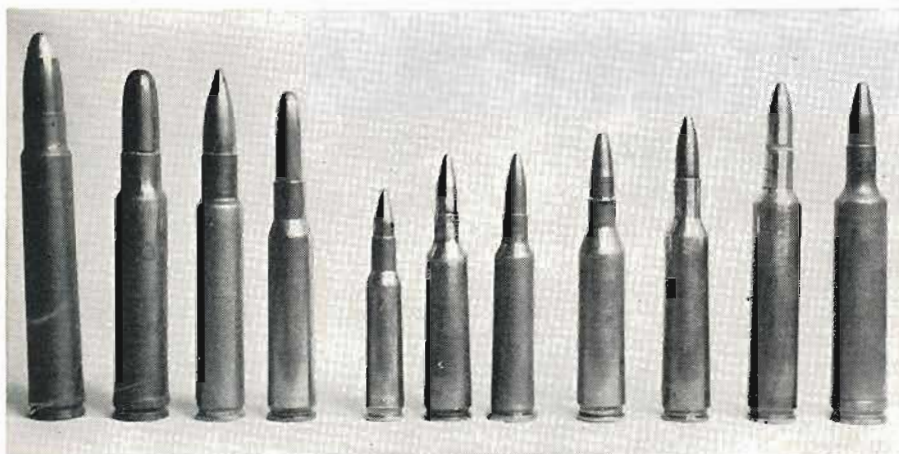
LIGHT BULLETS at high velocity, or heavy bullets at moderate velocity? It's the old, old argument, with two strongly opinionated schools of thought debating it. Texas is a great place for controversy, and this particular one is, I think, hotter here than anywhere—for two reasons. For one thing, Texas hunting terrain goes from one extreme to the other, from dense brushland to wide-open prairie, in dif-

ferent areas; and, for another, Texas laws permit a wider range of hunting calibers and loads than would be legally permissible in many places. The following should be read with that last fact in mind, else you'll be throwing up your hands in horror and writing the editor, "Those guns are illegal!" Maybe they are, where you hunt. Certainly you should check the hunting laws wherever you hunt; because, if you add

all the legal restrictions of the various states together, a *lot* of guns are illegal!

Down here, when we speak of "brush buckers," we think of such rifles as the time-tried .30-30, the .45-70, the long and short .35 and .375 Magnums, the .35 Whelen, .35 Remington, .30-06, 8-06, and many others. My own brush buster is a favorite 8 mm-06 Imp which I load with 200 grain Barnes bullets for the brush, and with 175 grain Sierra Spitzers for the open range.

A conversion that is catching on like wildfire here is the Model 92 Winchester rechambered to the .44 Magnum. This should be another dandy for the brush, and the lever action would be fine for that fast follow-up shot. Now I hear that Ruger is making an autoloading carbine for the .44 Magnum cartridge, and (Continued on page 60)



Some of these cartridges conform to accepted ideas, some do not. Left to right: .375 Mashburn Imp. Mag.; .35 Short Mashburn Mag.; 8 mm-06 Imp.; 7 mm Norma; .222 Rem.; .22-250; .219 Mashburn Imp. Zipper; .243 Win.; .244 Rem.; .25-06 Imp.; .257 Weath. Mag.



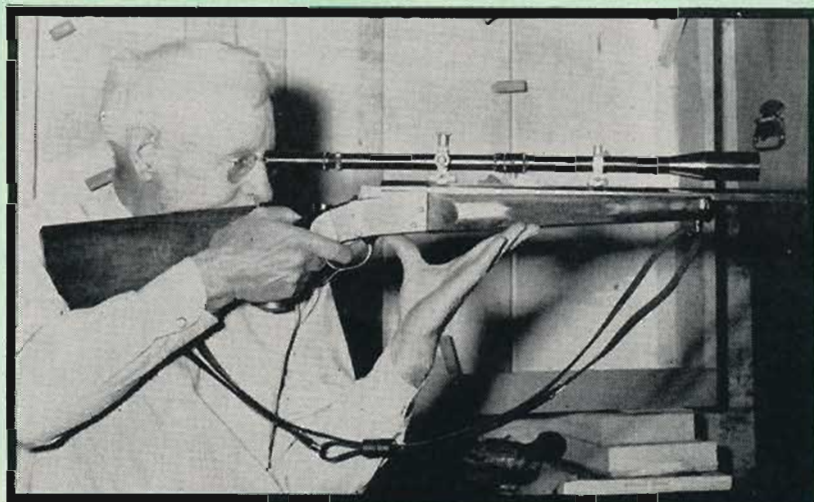
His 'Collector' Guns Shoot

By BILL JENSEN

GUN COLLECTORS are much given to specialization. One collects only Colts, another only Winchesters, another only martial pistols, and so on. Others limit their interest to guns of a given type or period. Homer C. Bosworth of Virginia City, Montana, specializes too, but his specialty is broad. He collects rifles, shotguns, and pistols, domestic and foreign. His requirements are only that something in their design, their craftsmanship, their use, or their history is interesting to him—and that they will shoot. His is a shooting collection, pure and simple.

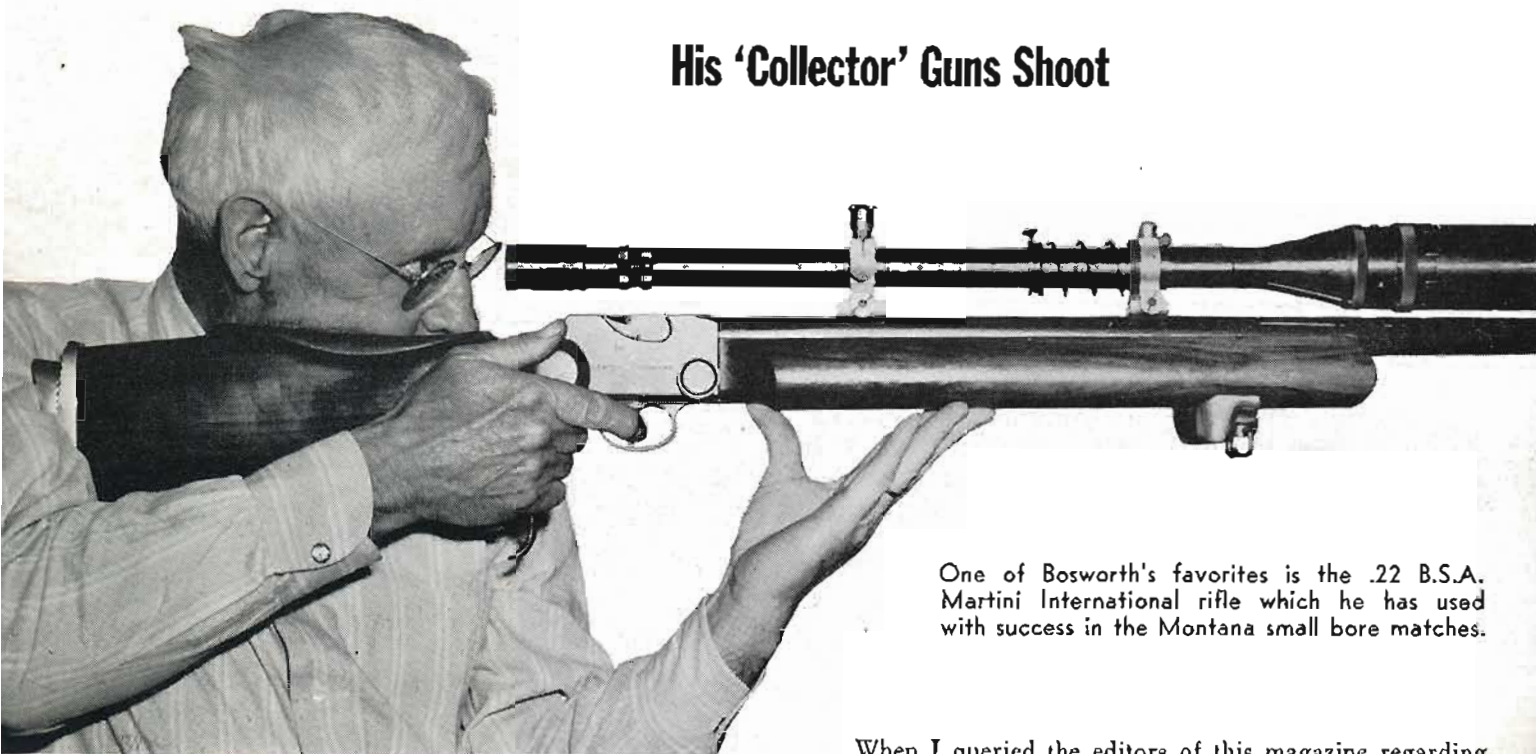
For many years, Bosworth has collected firearms that appealed to him. All are unusual in some respect, and in addition to pointing out their design and craftsmanship, Bosworth can discourse at length

Guns above are: (a) .22 Stevens Walnut Hill; (b) .218 Bee Winchester low wall, Buhmiller barrel; (c) .219 Wasp Winchester Hi-wall, Pride barrel; (d) .22 Haenel sporter; (e) .22 Marlin M 39A with Vaver sights; (f) .22 Ballard target, Peterson barrel; (g) .32-40 Stahl target with D.S. triggers; (h) .22 Winchester M52 Sporter; (i) .22 Stotzer Free Pistol with D.S. triggers; (j) .32-40 Steigle target rifle; (k) .22 B.S.A. Martini International target; and (l) .22 Schuetzen.



Surrounded by new and old guns, Bosworth test fires his Haenel .22 Sporter equipped with 12X target scope, demanding accuracy.

His 'Collector' Guns Shoot



One of Bosworth's favorites is the .22 B.S.A. Martini International rifle which he has used with success in the Montana small bore matches.

upon the origin and past history of his selections. But no matter how beautiful or how unusual a piece may be, no matter how interesting the history that may be attached to it, a gun does not remain long in his collection unless it is also functional and accurate. He has spent endless enjoyable hours handling, cleaning, restoring, and maintaining the items he has collected, but none are retained for looks only, or even for rarity. They are all working guns, used regularly on the range and in the field.

Bosworth's active interest in gun collecting started about the turn of the century, but the guns in his present collection have all been acquired since 1938. Earlier guns were all sold or traded.

When I queried the editors of this magazine regarding their interest in an article about the Bosworth collection, Technical Editor Bill Edwards wrote me as follows: "The caption of one of your photos refers to a .32-40 Stahl target rifle. Two questions arise: is the rifle truly .32-40 in caliber, or is it for the 8.15x46 cartridge which is more common in Germany? The possibility of German origin leads also to the second question: is 'Stahl' really the name of the gunmaker, or is the word part of one of the German phrases, *Fluss stahl* or *Guss stahl*, meaning fluid steel or cast steel respectively? The German language capitalizes the initial letter of nouns, and many people not familiar with this fact assume that a word or phrase indicates a proper name because of the capital."

I forwarded these questions to the gun's owner, and this is his reply: "The Stahl rifle is truly a .32-40, was not made for the 8.15x46 cartridge. The rifle bears, on the left



Pride of ownership shows on Bosworth's face (above and right) as he sights and fondles the .32-40 Stahl Martini-action which aroused curiosity of our technicians who thought it might be more common German 8.15x46 caliber. Bosworth proved his point.

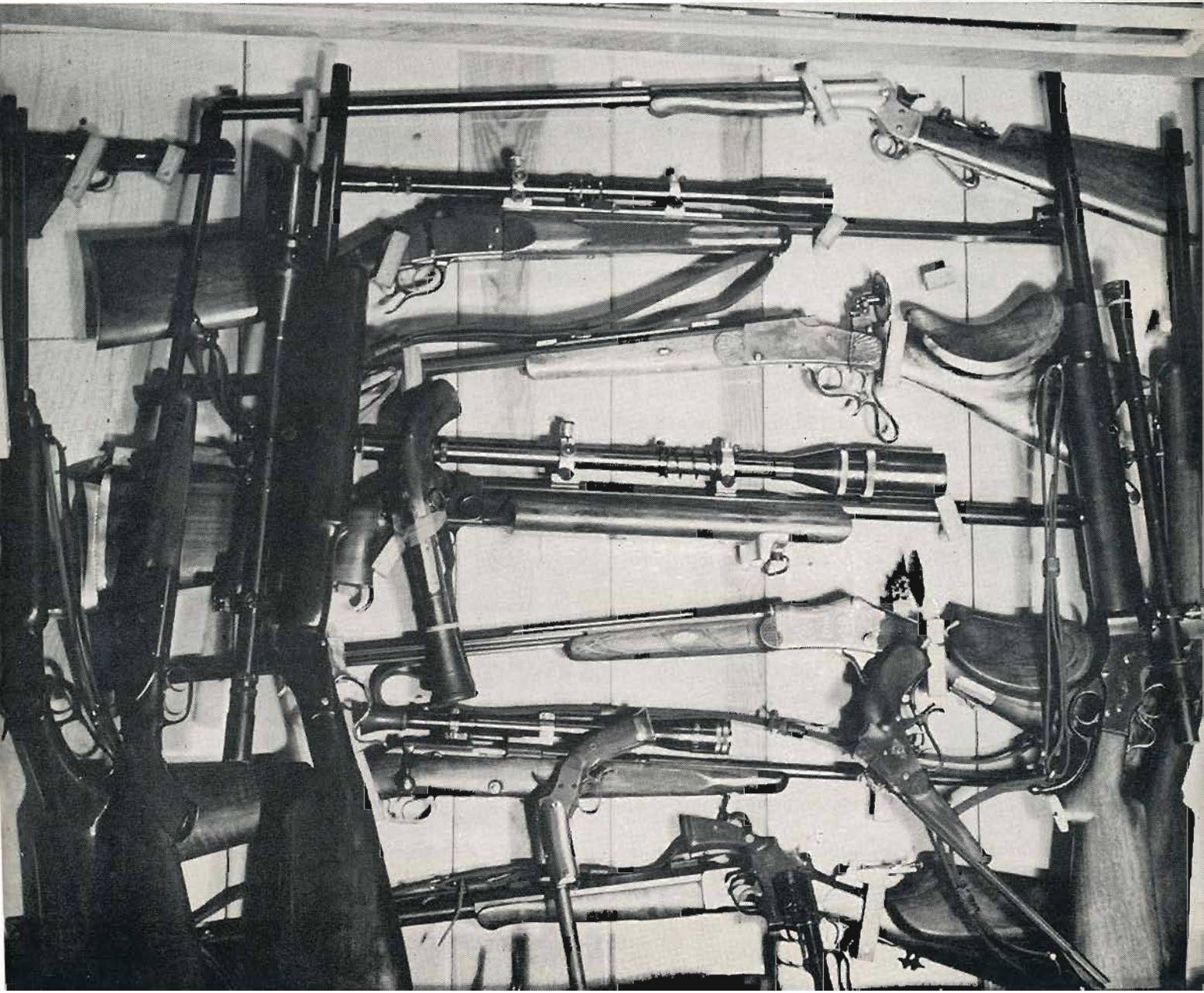
side of the barrel, in gold, the words, 'System Stahl;' and the left side of the barrel is marked, 'Albany, N.Y.' This is the way Stahl of Albany marked his barrels, so I would say he was the maker." Bosworth's special interest appears in the last words of his comment: "The rifle has a 30 inch half-octagon barrel, very finely rifled and finished. *It is very accurate and reliable.*"

The picture at the bottom of page shows several Bosworth pieces in a wall rack and standing. The rifle at the top of the rack, horizontal, is a Stevens of which Bosworth is especially fond and of which he writes: "This Stevens Premier .25-20 tip-up rifle I purchased from James Farr, of Princeton, New Jersey. It used to be Marcus Farr's small bore rifle. Marcus Farr was at one time the champion rapid-fire marksman of the world. This rifle is fitted with Pope rear peep sight, with windage and elevation adjustments and six different (Continued on page 61)



This .22 caliber Schuetzen target rifle by J. Hubel of Salzburg, Austria, has optical peep and D.S. triggers.

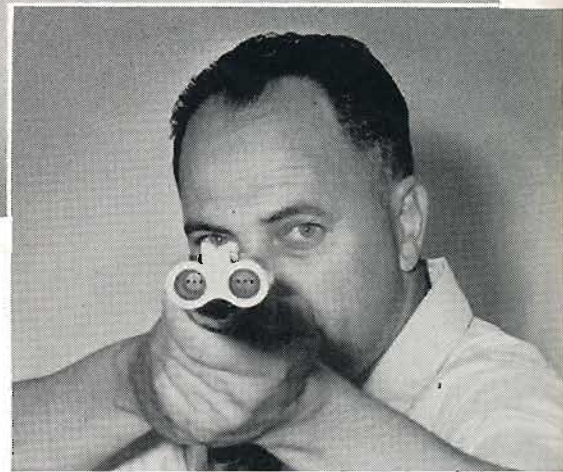
Rifles, top down, horizontal: .25-20 Stevens Premier; .22 Haenel; .22 Hubel Schuetzen; .22 Martini Internation B.S.A.; .32-40 match rifle; .22 Winch. M52; .32-40 Stahl target. Rifles, left to right, vertical: .22 Marlin M39A; 8.15x46 Gebruder Rempt; .219 Wasp Winch.; Stevens Walnut Hill; .218 Bee Winch. Low Wall. Pistols: Colt MT; percussion lock; .25 Stevens; S&W K22; .22 Stotzer Free Match single shot.



Don't Label Doubles

ROYAL RIFLES FOR AFRICA
ARE ALSO CONNOISSEUR'S CHOICE FOR OUR
OWN NORTH AMERICAN BIG GAME, IN
APPROPRIATE CALIBERS

By JAMES W. WILLIAMS



Author sights .470 Rigby, points out shotgun-like ease of handling. Front view of .600 Jeffery shows detachable striker discs in breech.

MENTION DOUBLE RIFLES in the average gun gathering and the reaction is likely to be, "So who can afford an African safari?" The trouble is, I think, that few people really know much about double rifles. The common and quite natural image the words bring up in the mind of the average hunter is that of the huge, tank-stopper doubles used on elephant and rhino. A man said to me recently, "Who needs a double? There's no game on this continent that needs that kind of power."

He didn't know that double rifles can be had in any caliber. He didn't know, either, that a fine double rifle has advantages above and beyond its caliber. It handles, balances, and points like a fine shotgun, carries its safety on the tang where it should be, delivers its two shots lightning fast and without aim-disturbing movement. And it's lovely to look at.

For the Adirondack and Pennsylvania deer hunter, a double in .303 British, 7 mm rimmed, .30-30, .303 Savage or similar caliber would be perfect. With 24" barrels, it's shorter and handier than any magazine rifle, and the second shot can be gotten off faster than with any other rifle except the semi-automatic. So far as weight is concerned, a good

double in the calibers listed above weighs no more than a comparable magazine rifle.

We hear conflicting stories about the difficulty in making a double rifle shoot to the same point of impact, and this is a major manufacturing problem. But all good gunmakers guarantee their rifles to group in less than 2" at 100 yards. John Rigby, one of the most famous British gunsmiths, made double rifles in .22 Savage Hi-Power caliber, and won various field trials with this rifle and cartridge. Holland and Holland developed their .240 Apex, a flanged shell of 6 mm caliber, firing a 100 grain bullet at 2800 foot seconds velocity. This was done around 1920, long before we Americans had any interest in the 6 mm line of cartridges. Using this cartridge in their "Royal" model, the British Field Trials were won and it was found (Continued on page 47)

'For Africa Only'

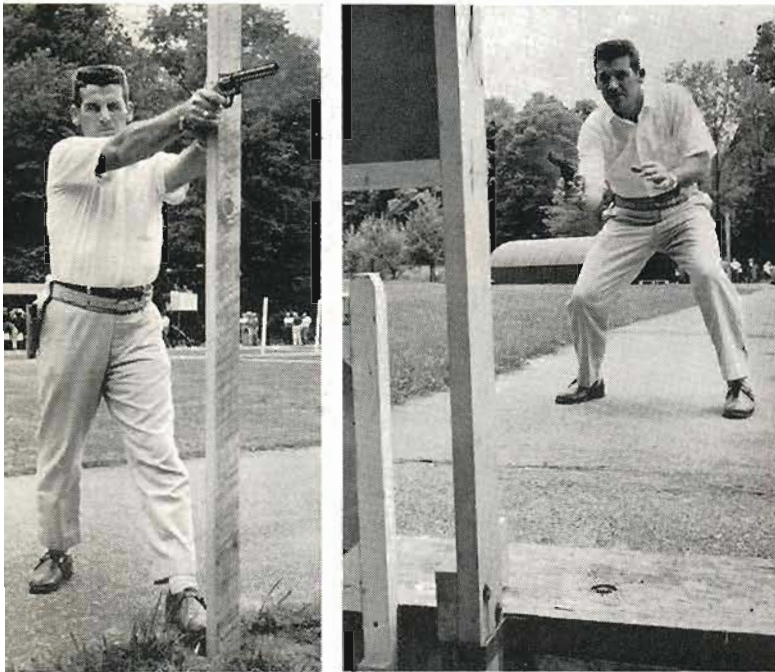


Top above is German Merkel 8x57 over-under with German scope mounts. Second gun is 9.3x74 side-by-side with imbedded action for high velocity.

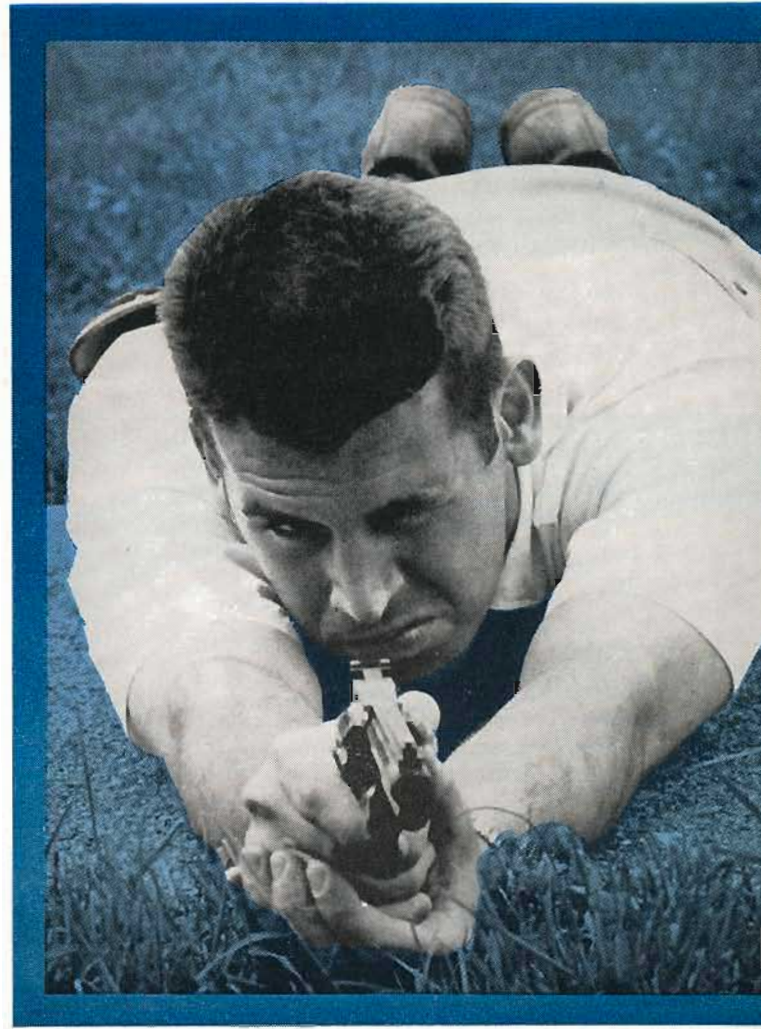


Four British doubles support author's claim that they are "lovely to look at." From top to bottom: a .425 Westley Richards formerly owned by Maharaja of Gwailor; .465 Holland & Holland; .470 Rigby; and, at bottom, a .600 Jeffery. But doubles come in medium to small calibers also, are adaptable to American as well as African hunting.

**BETTER GUN TRAINING MEANS
BETTER ENFORCEMENT AT LESS COST**



Firing from right-hand rest past barrier, from combat crouch, and from highly accurate prone position, Bob Matt demonstrates Indiana University police training.



These Guns CUT Taxes!

By DICK MILLER

YOU CAN hang a badge on a man and call him a policeman, but does the bright new badge on his chest insure that he is combat-ready with revolver or riot gun?

If we accept the thinking of half the towns, villages and cities in the United States, it does. By some strange and mysterious quirk of wishful thinking, city fathers of half our American cities seem to feel that putting a man in uniform, hanging a badge on him, handing him a revolver, and putting a riot gun in a squad car with him, instantly and automatically prepares him to engage in personal combat with any and all desperate criminals. It ain't so!

Another alarmingly high percentage of city administrations make a different but almost equally tragic error. They recognize that simply to issue a badge and firearms to a man does not necessarily qualify him to use the firearms in his profession, and they provide range facilities, target-type, for the training of police officers in the use of firearms. They encourage or even, require officers to fire a specific number of rounds per month, at *target practice*.

But the required or optional firing is done at paper targets, for score, under match conditions. This type of firearms training is certainly



Bill Toney displays proud smile and clean score made with borrowed gun.

Winners' awards are presented by Colt's representative. Far right: surrounded by guns, trophies, Matt and pretty secretary do a clean-up chore.



better than no training at all, but it does not prepare the officer to engage in combat with a criminal, who can be expected to shoot back. It does not teach the policeman to bring his firearm into use in the shortest possible time, and with a reasonable expectation of accuracy. Target shooting does not demonstrate to the officer how he can fire accurately with either hand, nor does it teach him to make himself the smallest possible target. Officers die because of these flaws in their training.

The Practical Police Pistol Course, familiarly called PPC, can make the officer combat-ready with an important tool of his profession. Only the PPC does prepare (Continued on page 53)



Firing big Colt's Python .357 Magnum from two-handed sitting position, Bob Matt's face reflects intense concentration with which law enforcement officers compete in this post-graduate combat firearms training course.



John Alshuler, 13, and Steve Meyer, a 15 year old, check in with ex-Police Chief Bart Tyrell for assignment to Junior Rifle work.



**BEGUN AS A FACILITY FOR THE PAN AMERICAN GAMES,
THE WAUKEGAN RANGE IS NOW A PRIZED COMMUNITY SERVICE**

Why Not Do This In Your Town?



Class goes out to range for Captain Couch's lesson on range safety, M-2 rifle nomenclature, and correct target shooting positions.



Completely absorbed in riflemen's common problems of putting bullets into tight groups, Alshuler coaches while Meyer fires. Capt. Couch's son, Ted, age 12, holds both New Jersey and Twenty-nine Palms Marine Base Junior crowns.

By BILL WILSON

YOUNGSTERS in Lake County, Illinois, are being afforded a real opportunity to learn rifle shooting these days at the Waukegan International Shooting Association range. Captain Wallace "Dutch" Couch, USMC, volunteered his service to instruct the basic NRA junior course. Twenty-two boys and girls were graduated from the first group started last August and another twenty-eight will have finished by early December.

I followed a typical pair of boys through their instructions in the latest class. They were John Alshuler, 13, and Steve Meyer, 15, of Waukegan. Both are members of Class Two, Junior Rifle Course.

On the first Saturday afternoon, these lads checked in with former Waukegan police chief, Bart Tyrrell, and were assigned to a relay. From there, they attended Captain Couch's lecture on range safety and nomenclature of a Springfield M-2, .22 caliber rifle. Chalk talks and sight picture diagrams completed the first week of instruction.

The following week, the boys returned to the range and were introduced to Rangemaster James Wade, USA, retired. "Big Jim" in turn introduced "Little Jim," his 13-year old son who holds the Illinois State Junior Pistol championship earned at the Elgin matches in August, 1960. Wade himself was a member of the US Army pistol team

for many years, and holds the coveted Distinguished Pistolmen's Badge. He recently tied for national civilian champion at Camp Perry.

After Wade's talk, Captain Couch wound up the indoor sessions with a lecture on principles of rifle shooting and then the boys moved to the outdoor 50' range for "dry fire." Couch employs the "buddy" system, with each boy taking turns helping the other in "snapping in" practice.

By the third week, John and Steve were firing live ammunition from sandbag rests and slings. Group shooting, Couch emphasized, is the most important thing at this point, with sight adjustments and shooting for score to follow. All targets and ammunition are furnished as a part of the course.

Ted Couch, 12, who holds the New Jersey Junior Rifle championship and the Twenty-Nine Palms Marine Corps Base Junior crown, acts as a model for his dad. Ted demonstrates the proper method of getting into a sling and goes through the positions of prone, sitting, kneeling, and off-hand. From the wings, Mildred Couch, his mother, looks on approvingly and with a truly professional eye, since she holds over 50 medals for skeet, pistol, and small bore arms. She was New Mexico's woman skeet champ for three years running. *(Continued on page 52)*



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

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NOW IT CAN BE TOLD—the COMPLETE story! Just off the press—reprints of the superb AMERICAN RIFLEMAN series, "Surplus Military Rifles" written by the NRA TECHNICAL STAFF! This 24 page booklet FREE during May with the purchase of ANY three items advertised below, INCLUDING ammunition in the lots indicated. (One only to a customer—additional copies \$.50 each.) Read about the SUPERIOR rifles depicted below and learn WHY these are the STRONGEST, SAFEST, MOST EXPENSIVE TO MANUFACTURE, MOST RELIABLE, MOST EXACTING rifles ever designed and manufactured. The most exciting array of selected military rifles EVER available—let alone from ONE

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Cal. 8MM



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The finest selection of the famed German made SS (Super Strength) Model 95 ever available! Paul Mauser's most expensive masterpiece—the SPECIAL SS (Super Strength) model with the THIRD locking lug behind the bolt. Also a special bolt guide rail to REINFORCE the receiver wall and make this the world's smoothest—not to mention a special SPORTER follower, ALL matching numbers, ALL milled parts, NEW bayonets, AND the three models below to choose from—ALL in the popular 7MM caliber! Better order today!



M95 (SS) MAUSER RIFLE!

Cal. 7MM



Read the above introduction to convince yourself that these German made Mausers are the answer to your wildest desires, and order today this accurate, hard-hitting masterpiece. Grade I of the above with original finish and very good or better condition only \$24.95! Grade II, good or better and in perfect shooting shape only \$22.95! 7MM M.C. ammo only \$6.00 per 100. Used military slings .50. NEW bayonets only \$1.95 complete with scabbard.

ONLY \$2295!



M95 (SS) SHORT RIFLE!

Cal. 7MM



The rifle designed to please EVERYONE with the ultra modern 22" barrel. Like all the rest, this is in absolutely good or better condition good or much better. Complete like the rest right down to the special cleaning rod. This M95 Model is so accurate and flexible that it was never used at close range—as witness the un-used bayonets—only \$1.95. Used leather slings, only 50c ea.

ONLY \$2395!



M95 (SS) MAUSER CARBINE!

Cal. 7MM



The perfect little Mauser Carbine complete with a genuine 18.74" Carbine barrel and in absolutely good or better condition. All the same desirable features of the larger models depicted above and at a weight that permits you to take your son or wife hunting. All models have the beautiful Chilean crest on the receiver ring for full aesthetic fascination. Original slings .50, NEW bayonets \$1.95.

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WW II MODEL 98 MAUSER!

Cal. 8MM



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Cal. 8MM



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G33/50 SWEDISH MAUSER CARBINE!

Cal. 6.5MM



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Cal. 7MM



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Cal. 44-40



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house! Now you can throw away your OTHER rifles! AN INCREDIBLE OPPORTUNITY! Imagine!—All the famed British Enfields, all the great Mausers—(the ultimate M-98 with long or short barrel, plus the rare carbine . . . the premium (SS) Super-Strong M-95 in THREE Models . . . the elite M-94 (G33/50), the racy M-93 and the classic of craftsmanship, the fine M-91.) Also for you collectors, a nucleus of an outstanding collection. In addition, today's M-1 Garand, the super-strong U. S. Model 1917, and NOW the rifle desired by EVERYONE—the incomparable U. S. Caliber .30-06 SPRINGFIELD. ORDER TODAY WHILE THIS FANTASTIC SELECTION IS STILL AVAILABLE!

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Cal. .30-06




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Cal. .30-06



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Cal. .30-06



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Cal. .303



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Cal. .303




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Cal. .303



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Cal. .38 WEBLEY & SCOTT REVOLVERS!

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(Those few with asterisk (*) above are partially shooatable but fully componentable.)

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Cal. 8x50 Austrian



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Cal. 8x50 Austrian



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RUSSIAN MODEL 91!

Cal. 7.62 Russian




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FRENCH M1916 MANNLICHER!

Cal. 8MM Lebel



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ITALIAN TERNI MODEL 91!

Cal. 6.5 Italian



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ITALIAN 70VV SNIPER RIFLE!

Cal. 6.5 Italian



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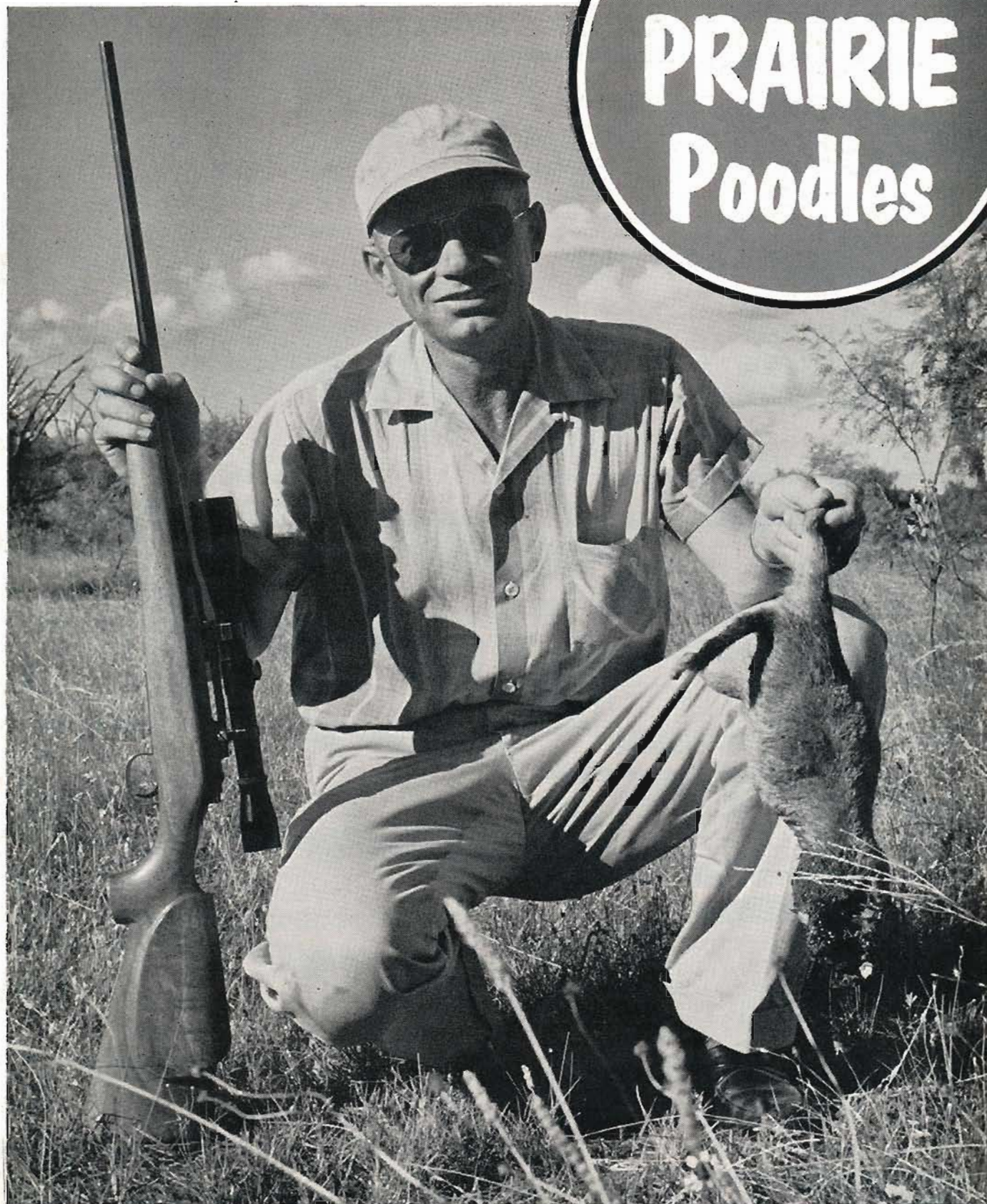
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Guns For PRAIRIE Poodles





Good spotting binoculars and a flat-shooting .222 caliber or bigger, mounted with a 6X or, better, 8X scope, are recommended by author.

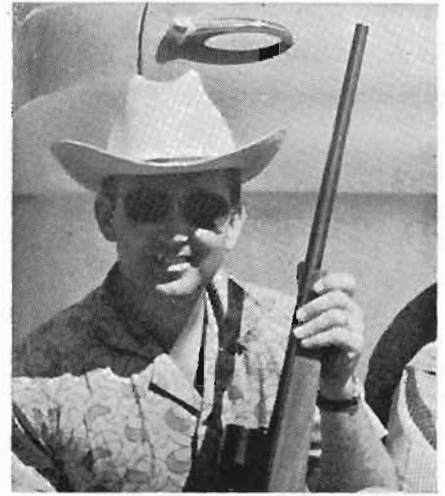
By HAROLD W. HARTON

PRAIRIE DOGS are unquestionably one of the finest targets obtainable for the varmint shooter. These little fellows were once scattered in great numbers from Texas to Montana, and from Nebraska to Utah. They still extend over these areas, but their numbers are greatly depleted. At one time, a single "town" in Texas measured 100 miles wide and 250 miles long, roughly three times the size of the state of Massachusetts. A single town in Arizona contained 7,200 burrows by actual count. This gives an idea of the prolific nature of the prairie dog. He is a smart little guy, with excellent vision and an engineering ability without peer. Although all the prairie dogs I've seen look alike, there are 4 varieties: the whitetail, the black tail, the Gunnison, and the Utah.

The destruction of the prairie dog came about because, as the prairies were settled, they became a menace to livestock. Many cattle and horses had to be destroyed because of a broken leg caused by stepping in a prairie dog hole. They have been destroyed mostly by poison grain. Sprinkle poison oats or corn around a town a few times, and the dogs will vanish.

Most ranchers don't want prairie dogs on their land at all, but there are a few who don't mind them as long as they are kept in control. Here is where the varmint hunter comes in. I know of several "towns" that have been kept in control by a small group of careful varmint shooters. The towns have never been shot out, yet they have not grown. This makes a good arrangement for both the shooter and the land owner. In the ranch country where the prairie dogs are found, there are sheep ranches, and the varmint shooter keeps the predators as well as the prairie dogs in control. This can be worth a lot to a sheep rancher, as a large fox can play havoc in young lambs, as can coyotes and bobcats.

Recently, a couple of my shooting buddies, R. B. Skaggs and John A. Smith, and I went over to an adjoining county



Author's own pet rifle is .22-250 with Zeiss power scope on Buehler mounts.

at the invitation of our friend the game warden, Bill Swope, to spend an afternoon of visiting and shooting prairie dogs. The afternoon was hot but the shade of the small mesquite trees that surrounded the dog town made the weather more bearable. The town was in a small swale on top of a hill. The dogs were out and busy when we arrived, but they dived down at the sight of us. We got out and made ourselves comfortable and got ready.

As always, it wasn't long until they started to come out again and the fun began. Skaggs got the first chance, and made a nice head shot 210 yards. Smith followed with a neat shot at 234 yards. Now the pressure was on me.

Presently my chance came, but it was a long way out. I put the pointed post right under his chin, and let fly. The bullet hit the middle of the belly and, of course, made an instant kill. Not all our shots were as good as those three, but the targets kept coming, and we spent a very enjoyable afternoon. This was a nice hunt and we didn't overdo it. We took 10 dogs. We can go back again.

As to loads for prairie dogs, type of rifles, etc., it's every man to his own, of course, but I'll tell about our equipment. Shaggs' gun was a 24" Apex sporter barreled 722 Remington; a custom rifle with French Walnut stock. His scope was a 6X Lyman in Redfield Jr. mounts. His loads were 24 gr. 3031 behind the 50 gr. Hornady in the standard .222 Rem. Smith's gun was the same action and barrel, with a Cherry wood stock. His scope was 6X Weaver in Smith mounts. His loads were 20.5 gr. 4198 behind the 50 gr. Hornady. My own rifle was a .22-250 Douglas 24" medium sporter barrel, 98 Mauser action, French walnut stock. My scope was a Zeiss 6X with picket post and Buehler mount. My loads were the 60 gr. Hornady bullet in front of 40 gr. 4350.

All of these loads are very accurate in our rifles and give no signs of excessive pres- (Continued on page 62)

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Pull!

BY DICK MILLER

DAN GRIGGS, a twelve-year-old youngster from Las Cruces, won the New Mexico Grand Handicap in the New Mexico State Trapshoot. Dan, in his second year over the traps, defeated R. L. Woods of Albuquerque in a shoot-off, after both had broken 95 regulation targets. Woods dropped two targets in the extra inning, while the youngster lost the range on only one.

Leonard Ginn, another shooter from Albuquerque, was High-Over-All in the New Mexico state event, with 739 of 800 targets. Larry Gravestock of Amarillo, Texas scored 382x400 to win the overall open class championship. In a closed division (New Mexico shooters only), C. Martinelli of Gallup cracked 379x400 for the title. Martinelli also took home the New Mexico Doubles title, and Ted Boudreau was high in 16-yard events.

Lois Russell unseated Kitty Tellyer for the State Ladies Championship in a shoot-off. Bill Felty was high junior, and Dougie Davis took the sub-junior honors. Evelyn Fuller took the open Ladies trophy on the 16-yard event. Bill Hutchings outlasted both M. L. Fuller and Pardner Tellyer in the industry class.

Bill McCord was elected president of the New Mexico State Trapshooting Association. Don Beck was reelected Vice-President, and Kitty Tellyer was reelected Secretary-Treasurer. Leonard Ginn was reelected State ATA Delegate, with Ted Boudreau and Gene Sites alternates.

o o o

Good shooting, good scores, and good crowds were reported in the Florida Mid-Winter Chain of Trapshoots. James Null, Jr., of Grover, Missouri, was high gun in the 500-target marathon warmup at the Sarasota Gun Club, with 492x500. Henry Decker from Vincennes, Indiana, was high class winner with his 459x500 marathon production.

Other class winners were Robert Owens. Broussard, La., in Class A; Fred Aldridge of Freeport, Illinois, in Class C; E. H. "Sherm" Morris, from Crossville, Illinois, (another of my old shooting buddies, along with Henry Decker) in Class D, and Edna Stark, Indianapolis, High Lady.

George Silvernail nailed down the Gulf Coast Grand Handicap at Sarasota with a near-perfect 99. Dr. Al Foxworthy of Tampa was just one target off the pace for runner-up. J. H. Conner picked up the third place marbles after a photo finish with Roy Mason, O. Eberly, and Wayne Richards. Agnes Buckles, the pride of the Bluegrass state, bested Floridian Punkin Flock by one target for the ladies trophy.

A record 287 shooters toed the line in this event, up from 266 of a year ago, according to maestro Bill Hoffman. 198s were popular

in the 16-yard class races at Sarasota. George Newmaster and Robert Owens posted 198 efforts in AA, Bill Wallock of Sandusky, Ohio, topped Class B with 198, and another 198 by my neighbor, Frank Mitsch of Cedar Lake, Indiana, was good in Class A.

Orville Eberly from Unjoutown, Pa. won C Class, and Class D went across the nation to Bill Labombarde of Nashua, New Hampshire. Katie Mills of Miami saved the day for the home state with a victory in the ladies event.

It wasn't planned that way, but the Circus City 16-yard race at Sarasota was close to an all-Illinois event. Homer Clark, Fred Aldridge, and Keith Albert, from Alton, Freeport, and Decatur, respectively, were class winners. The one non-Illinoisian place went all the way out of the country, to W. J. Oliver, from Niagara Falls, Ontario, Canada.

Bob Owens continued his winning ways at Sarasota, by racking up 198x200 and a win in Class AA. Adolph Nelson from Detroit and Dick Morrison from Morristown, Tenn., were two targets off of Owens' pace, at 196, in Class A. Roy Mason was good in Class B, his 196 getting him away from 195s, fired by M. O. Blackslce, Medina, Ohio, and Horace Miles of Horse Cave, Kentucky.

Cliff Webber of Anchorage, Alaska found the Florida climate to his liking, and edged Paul Graff of Hamilton, Ohio for Class C honors. Lester Lund, Walcott, Iowa took Class D, with Lorne Packham of Riverdale, Maryland the runner-up. Wind-blown targets in the Sunshine Skyway events at St. Petersburg did not bother Walter Gries from Benson, Illinois. Walter's 97 won Class A and high gun in a 16-yard race which featured a mass of ties in all other classes, necessitating shoot-offs the following day. Leonard West flew in from Dayton, Ohio in time for the Handicap events of the same day, and flew high with a 98 and first place. Wayne Richards of Tampa and John Doleshaw of Columbus, Wis., tied for runner-up, with Doleshaw winning the shoot-off. High Lady was Helen Snyder of Washington Court House, Ohio with a good 88 in the wind.

Pennsylvanian George Newmaster was hot in the Sunshine Skyway program. His 198 was good in the 200 target events, and he broke a perfect hundred in Wednesday's 100 target race. Homer Clark Sr., the Alton ace, was runner-up in AA to Newmaster with a 194 effort. Frank Dissinger and James Null both had 196 productions in Class A. John Doleshaw picked up another trophy in Class B. M. C. Forrester was good in Class C, and Vinton Porterfield from Waldo, Ohio found the range for 191 in Class D.

On the same day that George Newmaster's (Continued on page 62)

ONE GUN FOR AFRICA?

(Continued from page 18)

220 grain full-patch heavies. I had sighted my rifle so that all of these would shoot with fair accuracy at 200 yards. (Curiously enough, the 220 grain stuff shot high at that range.) I had full confidence in the rifle, was ready to shoot at any game offered.

Today, things are different in Kenya, The Kenya Game Department has stipulated officially what the White Hunters had been advocating all along, that nothing smaller than .400 caliber can be used for any of the large or dangerous game. But at the time of which I write, there was no such law, and Andrew Holmberg was, I think, in spite of his own convictions, curious to see what my rifle would do.

Came a cold, misty morning when some ten days of our safari were gone, and we were confronted by a very nice rhino with a better than 30 inch horn. "Shoot him under the chin," said Andrew. So I did. I cranked a 220 grain load into the Weatherby and shot the rhino under the chin. He snorted, whirled, and dropped to his knees. I shot him again



Klipspringer (above), other small game were clean kills when solid bullets hit them.

on the point of the shoulder. The rhino fell as if he had been poleaxed. This was all at a range of 40 feet.

And this brings up another thing about African White Hunters. They believe in taking a client up close, where he can't miss! It is my personal opinion that, for rhinos, buffalo, and other African fauna with nasty dispositions, 40 feet is too close. I told Andrew so. "Andrew," I said, "why don't we stand off at maybe a hundred yards and take them? Then, if something does go amiss, we can always throw our guns away and skinny up a tree." But Andrew was not amused, nor was he convinced.

On that first trip, I chickened out when it came to elephant, and we shot a couple of bulls with Andrew's .470 double—which, incidentally, had a nasty habit of firing both barrels at once. But in Mozambique, on another trip, I did try the Weatherby .300 Magnum on elephant. I had plenty of precedent; Weatherby himself had polished off a pachyderm with one of his favorite rifles.

We tracked a herd of five bulls for only a short distance in the early dawn of a Mozambique morning. We came up to the elephants feeding quietly through some scattered trees.

We had spotted a couple of large tracks in the bunch as we trailed them, so I had every reason to expect some really good pieces of ivory. As soon as we could see the nearest bull fairly clearly, my little Portuguese guide began to jump up and down and yell, "Beeg wan, beeg wan!" I could see with half of one blood-shot eye that the near bull was not a "beeg wan" by any stretch of the imagination. However, the alert elephants had heard the human voice and started to shuffle off.

With a 220 grain solid in the throat of the .300, I snapped off a shot as the bull shifted into high gear. I aimed just where the edge of the elephant's ear bisects his shoulder. The bullet hit true. The bull squealed through his trunk, but he kept on running. In about 30 yards, he stopped. He stood swaying. I walked up alongside him and aimed carefully at the spot a little below and between the eye and the earhole. The bullet entered the elephant's brain and he died instantly.

Before the hunt in Mozambique and since then, I have shot elephant with various rifles, from Andrew Holmberg's .470 double rifle on down, and I can see very little difference in the general effectiveness. It usually took two or three shots, even with a really heavy slug, to do the job. I recall a story going the rounds of the bars in Nairobi at the present time which deals with two white hunters who shall remain nameless. These two fellows, both with heavy double rifles, shot a charging elephant so that a movie company could get some really spectacular pictures. The combined efforts of these two experts not only failed to stop the elephant, but the bull galloped through a whole circle of cameras and hysterical cameramen and got clean away. I understand that the pictures are really spectacular.

I killed all of the African 'Big Five' with my Weatherby .300. I also pinned a couple of buffalo through the shoulders with the same rifle. In both cases, the beasts bellowed, galloped on a few steps, and then caved in. I have also shot buffalo with the .378 Weatherby, the .460 Weatherby, the .458 Winchester, and a galaxy of double rifles from a .465 to a .577. As far as I can tell, there was little choice between them for ordinary run-of-the-mill buffalo potting. An old friend of mine, Colonel R. L. Harrison, now unhappily gathered to his ancestors, has been on 11 trips to Africa and on every trip tried to kill a Cape buffalo with a single shot. He never did it. Colonel Harrison at his death owned over 100 guns of different makes and calibers.

Soft-nosed 180 grain Hornady bullets in the .300 Weatherby are ideal sleeping pills for lion and leopard, in my opinion. They also work excellently for the heavy-bodied plains game such as oryx, and even eland. The ordinary eland, in the thousand pound class, is often very hard to get down and keep down. I found that a solid bullet through the shoulders does the job very well indeed.

The flat-shooting, long range characteristics of the Weatherby are, of course, a tremendous advantage in most African hunting. The eland is as shy as a politician at a budget hearing. Many of the other African animals now, with increasing hunting pressure, are getting very difficult to approach. Often the

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ranges are 300 yards or better. Frequently, also, the game is in motion. Most of the stuff doesn't stand and look at you any more. They run like hell when they smell gasoline. Slow-moving bullets with a high rate of fall just won't get there and do the job under these conditions.

How about the little stuff? I have shot dik-dik, oribi, steinbok, and duikers, all with the .300 Weatherby. On a few occasions, I must confess, the results were a little messy. I usually had 180 grain soft-nosed in the gun when we were stalking lion baits or ordinary game. Then, if something delectable presented himself, I simply flailed away with whatever I had. An oribi or a duiker weighs about 15 pounds. In a few cases, the heavy bullet carried away a considerable portion of the animal in question. However, if I had a

chance to put in a solid patch cartridge, the situation worked very well even on dik-dik. A solid bullet placed anywhere behind or through the shoulder made a neat quick kill. Both the trophy head and the meat were adequately preserved.

I used the .300 Weatherby on the whole gamut of African game, and it seemed to do the job very well indeed. I have also used the .300 on most varieties of North American game. I have managed, in a checkered career, to gather in all species represented on this continent except musk ox. I found that the .300 does the job on a mountain sheep or goat far across some blue-shadowed canyon, or on grizzly bear or an Alaskan brownie at Andrew Holmberg's favorite distance.

So there you have it. The defense rests. This is my candidate for the universal all-purpose rifle. Are there, dear reader, any drawbacks? Any flaws in this rosy picture? You bet there are.

How about a charging animal? Especially one with teeth or tusks and an unpleasant disposition? Is the .300 Magnum an ideal gun for this exciting situation? Elmer Keith of the OKH school of thought would say no. I would, too.

During my series of experiments with Andrew Holmberg, he told me, one fine morning in western Kenya, to shoot a big bull buffalo in the chest with my .300 Weatherby. I did. The 220 grain solid slug seemed to hit him fair and square, but the bull grunted, turned, and ran back into the heavy cover along a small stream. Four hours later, we were still trailing that particular buffalo. We could tell by the blood and gunk that the buffalo coughed up that he was struck in the base of the throat instead of the chest. Twice the bull laid in wait for us, then he changed his mind and went on.


About noon, our gun bearer, Ngoro, who was doing the tracking, pointed to some bright blood on an upturned leaf. In that same instant, the buffalo jumped out at us, roaring like a jet engine. He knocked Ngoro down and jumped clear over him. Andrew and I scattered like quail. We both fired as the bull passed between us. Andrew, of course, got both barrels of his .470 into the

bull at a range of six feet. The buffalo galloped past us about 50 feet, slid to a stop, turned, and came back to finish the job. We managed to polish off the buffalo without any further excitement. But as both Andrew and I sat in the blood-spattered dust and wiped our brows, we concluded that there must be a moral in this near-escape. Maybe the moral is that, sometimes, *no rifle is perfect*.

Other items, too, shook my confidence from time to time. I shot a zebra which we needed for a lion bait. It was necessary to get at him through a bit of grass. The fast-moving .300 bullet never got there. At the second or third shot, I finally hit the zebra in the shoulder. Andrew, watching the animal through his binoculars, announced that the hit was right on and the zebra was dead. The zebra, however, failed to enter into the spirit of the occasion. He galloped off with two or three hundred of his fellows.

About a mile away and an hour and several disgusted remarks later, we finally sorted him out and finished him off. We found that the first bullet, deflected by a grass stem, had not penetrated the zebra's shoulder blade but had blown back to the surface. The zebra with that superficial wound could have lived to a ripe old age to tell his grandchildren that a .300 Magnum didn't hurt a bit.

I had scope trouble too. At least I would like to blame it on the scope. The very sharp recoil of the Weatherby tends to shake scope mounts of even the most durable varieties. Not only this, but with the enthusiastic nimrod banging away in all directions, the sharp recoil tends to lay the foundation for some really splendid flinching. I caught myself several times giving gracefully before the recoil long before I pulled the trigger.

Is there an all-purpose rifle? I think perhaps the argument stems from the fact that the question, as usually phrased, is too short or not properly worded. "Is there an all-purpose rifle—for me?" or "What is your (or his, but not *the*) all-purpose rifle?" are questions that can be answered affirmatively, within reason. I still think my .300 Weatherby Magnum comes very close to being the all-purpose rifle for me. I'm going to take it back to Africa on the next trip. 

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THE LEFEVER NO MONEY CAN BUY

(Continued from page 21)

also killed some ducks amidst interesting scenes and companions. Piloted by Lady Blue, my lovely little Setter, the Lefever gave me an unprecedented double and two singles with four shots at the first sharp-tail grouse I ever pursued. That performance was never duplicated on sharp-tail but, a year later, en route to the Hanson ranch near Fort Meade, I dismounted to open a gate and saw a flicker of movement in sparse cover beside the road. Hastily grabbing and loading the gun, I consecutively killed four prairie chicken from the pack that foolishly refused to flush simultaneously. Mr. Hanson heard the shooting and greeted me with the dry comment that it was the shortest day's shooting he'd heard. Lady Blue seemed to think that she might as well have stayed in bed, but we all had a hearty ranch dinner and pleasant conversation.

During the next two years, I shot pheasants, a few more prairie chickens, some skeet and, on a memorable trip to the sand hill country on the southern South Dakota border, killed two limits of mallard.

Ignorantly trifling with a prison term, I stumbled on quite a migration of snipe refreshing itself on the military reservation, and concluded—I think logically—that it must be open season. The six couples I collected were delicious, and neither Lady Blue nor the Lefever manifested any pangs of conscience.

In August, 1936, we three—Lady Blue, the Lefever, and I—tried city life in Chicago for

four years. Our experiences varied from pleasant and unusual to tragic and romantic: I shot a limit of doves within the corporate limits of Elmwood without being noted as more than an eccentric. Shot pheasants, too, in fields surrounded by flourishing suburban towns and, on side trips to Indiana, killed some quail and lost Lady Blue to pneumonia. With only the Lefever remaining to solace me, I got married.

Back at Fort Riley in 1940, with no dog, only the Lefever and the sympathetic assistance of my old hunting companion, Mr. J. J. O'Neill, kept me from abandoning shooting entirely. We three fought for our limits through the first and—I swear—the last dogless shooting season of my life. Then I got Lou, an incongruous mixture of worthlessness and unforgivable lack of decent behavior at home and choke-bored superiority of bird handling afield. Happy days seemed to have returned, except that a trio of madmen were embroiling the world in sanguine lunacy. Sadly, I told the Lefever that this was one hunt that it would have to sit out.

But before I departed, I took stock—took stock of stock, fore-end, and all visible metallic components of my gun. Honesty forced me to admit that, with the exception of the bore, the Lefever showed signs of wear. So I snatched a short leave of absence, shot a plenteous lot of Ozark quail over Lou's points, and did some serious drinking and visiting with my good friend, John H. Bishop, then boss of the Warsaw, Mo., stock factory.

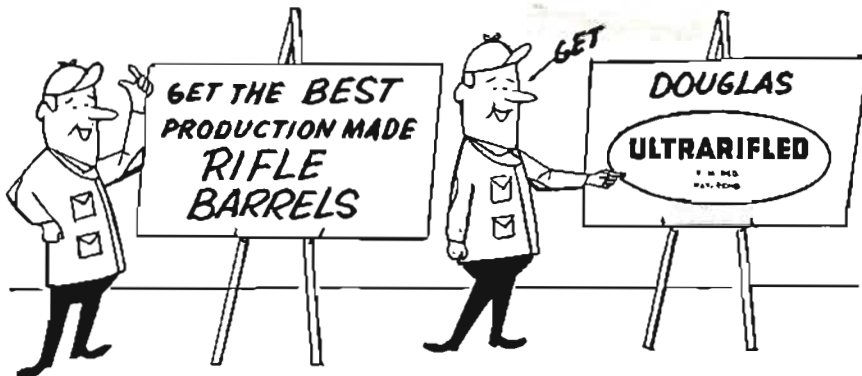
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Somewhere along the line, we arranged that the Lefever should stay with John and that he and Charley Fajen would collaborate in administering a complete beautification during my absence. In a moment of seriousness, I added that, if I did not return, Warsaw seemed a proper place for the Lefever to remain. This called for another drink, and when Harold Bugeon, then proprietor of the Ozark Tavern, wandered in, I sold him Lou. There wasn't a dry eye in the house.

Lou died under the wheels of a truck. I lived. The Lefever got a beautiful blue dress and superb walnut accessories. Perhaps there is a moral here, but I do not know what it is. I know that there was no shortage of guns to be had in Germany, and that I used some of them to collect snipe, pigeons, ducks, and coots. It was all right, but it wasn't the same. So, in 1946, I took a short trip home and tried hard to see clearly the dressed up gun that John and Charley placed in my hands. After watching me for a few minutes, John drawled to Charley that I reminded him of a cowboy with a twenty dollar horse and a five hundred dollar saddle.

Possibly a little previously—game wardens were rare that year—we opened the dove season and, thereby, gave the tapestry one of those outstanding pictures that come rarely in a lifetime. I shot better than I had ever done, and did it as easily as a fancy lady smiles. The Lefever went back to Germany with me, and shooting picked up.

In 1948, we were home again and, for two years, revisited many old and quite a few new gunning places. Grouse and ducks in northern Minnesota, pheasant in South Dakota and Iowa, ducks and geese on the Illinois and

Mississippi Rivers, quail in Illinois and Indiana, doves here and there, and snipe wherever they could be found. A trip to Beardstown, Illinois, introduced me to the master duck caller, Mr. Fred Rohn, and inspired me to attempt a new game.

I bought calls and records purporting to make anyone a duck caller. After a year of practice, I revisited Mr. Rohn and asked him to judge my progress. Politely, but with finality, Mr. Rohn ended that phase of my life. He did not actually say that he thought me a superior addition to the cause of waterfowl conservation, but he did make it clear that he would do the calling while I confined my efforts to shooting at what he called up. Since then, I have frightened no ducks by intentional noises of any kind. It has not made me a superior duck shot, but it has eliminated one handicap. As if in gratitude, the Lefever seems to outdo itself when ducks are unusually wary.

Unexpectedly, in 1950, the Pentagon sent me to South America. After my official installation in Asunción, Paraguay, I went shotgunning. That just about tells the story of my unofficial activities for the next 43 months. By then, I had two good hunting Cockers and, shortly afterward, two pups were added. The Cockers and the Lefever got along fine. To try to describe adequately the shotgun hunting in Argentina, Paraguay, and Brazil would only lead to hard-to-swallow superlatives, and run into volumes of print. Some highlights must suffice.

Imagine a valley three miles wide and twenty miles long, grassland, brush, some timber, slightly rolling, with water-filled depressions with boggy rims, small-to-medi-

um-sized streams, appropriately inhabited by thousands of *Perdices* and *Martinets* that lay well to dogs and never flushed as bevies but only as singles, both species delectable on table. I had such a valley, and it was only 28 miles from my house, accessible by one of the only two paved roads in the country. Add that the ranch entrance held a cool, spacious house where refreshment was always available and pleasant conversation a leisurely must! The Lefever, the Cockers, and I knew it intimately during the six months open shooting season each year.

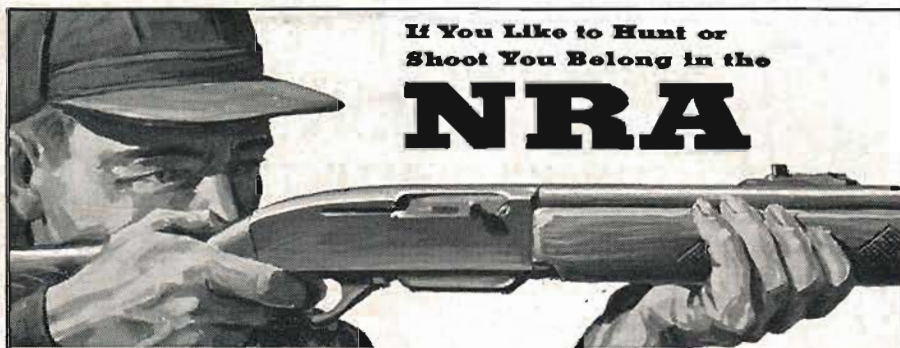
There were snipe in the bogs and ducks on the water in my valley, but it was to other places that we went for serious shooting of those things. There were five estancias with small plane landing strips where fabulous numbers of edible ducks traded for hours at a time and the only concealment necessary was the shade of a palm tree—concealment from the sun's rays. There were several places where from dawn, for hours and, again at evening, the huge tree ducks, locally called *Bragados*, weighing an average of eight pounds, provided shooting undreamed of elsewhere, and met the most demanding gourmet's demands at table.

There were places where great flocks of *Palomas*, the steel blue wild pigeon, fed on rice or other grain and offered the patient shooter recompense for long waiting by providing shooting as difficult as he could wish. There were places where *Palomitas*, apparently identical with our Mourning Dove, gave shooting of every type known to man. The reason for gunning was reasonable: six months for upland game and no close on waterfowl.

How did we shoot, the Lefever and I? We shot a lot and with that much opportunity, I improved. There were days when I felt the beginning of hope that I might become a really good shot as, for example, the time I killed 30 consecutive *Perdices* without losing one shot at. But those days were rare and stand out only as rarities. Much better were the hundreds of hours spent collecting mixed bags of whatever game bird flushed and, heedless of misses, other hours of resting in many a lovely spot while the Cockers panted and whined, eager to be a-hunting again. The Lefever never faltered, and I would hesitate to guess how many thousand rounds of diversified ammunition it accepted and served forth excellently.

From 1954 to date, the gun has harvested ducks, geese, quail, doves, pigeons—clay and band-tail—snipe, pheasant, coots, and cats in satisfying quantity, without complaint. But, at the end of the 1958 season, I began to notice that while the shotgun's exterior was marred only by service strips, there were some evidences of internal deterioration. In one of the most sensible moments of my life, I wrote to Ithaca's boss and some wonderfully cooperative action followed. Chronologically, it went as follows:

February 1959: gun received by Service Department, Ithaca clinic, and diagnosis completed. March 1959: treatment underway



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with plastic surgery promised by engraver McGraw, who will "sign" his completed work. Interestingly, although Mr. McGraw has been with Ithaca almost 50 years, only within the last three has he been signing his engravings, and the practice began almost by accident. The story is taken, in substance, from a letter from Mr. Ed Thompson, boss of Ithaca's Service Department.

At a dinner for a retiring official, Sheldon Smith, Ed Thompson and McGraw were talking about the wild life paintings of Louis Agassiz Fuertes. Fuertes was a close friend of Mr. Lou Smith, Sheldon's father and long-time ruler of Ithaca Gun Company, and was frequently commissioned to painting illustrations in early Ithaca gun catalogs and other advertising material. Sheldon Smith happened to mention that he had a picture of a jaguar which Fuertes had painted and given to Lou as soon as it was finished, but that, unusually, it was not signed. Ed Thompson then suggested that McGraw ought to sign his gun engraving jobs, and Sheldon Smith approved the idea and ordered it done in the future. McGraw was pleased, and it seems probable that these "signature guns" may become collectors' items in years to come.

April 1959: several members of Ithaca staff are now interested in creating a unique "Busbey Grade" Lefever. June 1959: sadness and delay enter: Mr. Harry Lake, master worker on double guns, seriously ill. September 1959: illness and tragedy at Ithaca plant: McGraw ill for several weeks, and Harry Lake died. From letter of Ed Thompson:

"Harry Lake is gone. He was one of the grand old men who helped put and keep Ithaca guns on the map for many years. I think he knew more about Ithaca double guns than any man we ever came across, including the original designer of the 1909 model and the greatest gunmaker we ever knew, Emil Flues. Harry's going marks the end of an era, in that he is the last of the gunmakers capable of servicing an Ithaca double in every way. I will have Mark Senecal, the head of the high grade gun department, assemble your gun, and will then thoroughly test it, myself. It looks now as though you not only have the finest Lefever Nitro Special ever put up but that you have the last one."

On October 20, 1959, my Lefever was in my hands again. I studied his shining exterior with pleasure more mature but, perhaps, no greater than when I first unwrapped it from Montgomery Ward's package more than 30 years before. We have been tempered by those years, during which a lot of feal companions have passed to a land where, I hope, they will greet me with habitual sarcasm and endless insults as of yore, the while they secretly plan to share with me the finest of their treasured shooting grounds. And all my dogs...

Meanwhile, any collector who wants my signed Lefever had better resign himself to waiting until my obituary notice appears in print.

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GUN RACK: Should We Adopt the 9 mm Parabellum?

(Continued from page 15)

ing the Korean conflict), or is behind a wooden door, or behind a plexi-glass windshield. Maximum penetration is achieved by maximum velocity with a hard-jacketed pointed bullet of relatively small diameter; in other words, those factors which contribute to maximum penetration directly subtract from maximum transmitted shocking power. In its present form the 9 mm Luger (standard loading) will go through ten 7/8" pine boards before coming to rest, as compared with six pine boards for the .45 ACP. The smaller calibre load gives good penetration but not enough shock on impact, while the latter load transmits adequate shock, but doesn't penetrate deep enough when faced with an obstacle in front of the target. The low-velocity .45 is not as easily deflected as the high-speed 9 mm though, and this may be important under certain combat conditions (such as fighting in heavy brush).

Another point given in favor of the retention of the .45 ACP is its great accuracy. It is one of the most accurate of all big-bore pistol cartridges. But in combat, the auto-loading pistol is a close-range defensive weapon, and under these circumstances accuracy is not important. A man at close range is a big target, and about all that is necessary is to get the bullet out of the barrel. Long range offensive work is for the man with a rifle. Also, the crude fixed sights on current military autoloaders don't allow all the accuracy that either the 9 mm or .45 cartridges are capable of delivering.

Recognize that in comparing these two rounds, their advantages and disadvantages are being considered from the standpoint of use in autoloading pistols, since revolvers for military combat work (only) are practically obsolete. The Colt Model 1911 and 1911A1 are the official sidearms of our Armed Forces, and pistols made by Walther, Star, Llama, Beretta, Browning, MAB, and Neuhausen are all used by foreign powers.

Rapidity of fire is probably the prime advantage of autoloaders. A revolver cannot be fired as fast (with aimed shots) as an auto-loader, and in combat a man's life may depend on fast successive shots. No revolver made today can be reloaded as fast as an auto-loader; in fact, by the time the six-gun man has the empties shucked in his hand, the man with the auto has swapped magazines and is in action already. Magazine capacity of the automatic is considerably more than a revolver, and they generally weigh less and are more compact; something that can be important when a soldier is in full combat gear and every extra ounce of weight detracts from his fighting efficiency. A well-designed auto (as all military weapons must be) will stay in the fight with a reasonable amount of dirt, mud, and other foreign matter in the action, while the close-fitted parts of a revolver with their minimum tolerances require very little foreign debris to put them out of commission. Incidentally, the Colt model 1911 was the only weapon, pistol or revolver, to pass the Army's accept-

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ance test 100%, which is enough said for functioning reliability.

It was customary in the Korean conflict for those officers armed with the Colt .45 to carry two extra loaded magazines on their pistol belts, which is only fourteen extra rounds. Any more than two extra clips represents an added load when you are burdened down with a map case, binoculars, and other gear. The 9 mm cartridge is considerably lighter than the .45 ACP, although both are of the exact same overall length (1.165"). This, plus the fact that a pistol shooting the 9 mm Luger can be made much lighter than a comparable .45, is a point in its favor. The relatively heavy recoil of the .45 cartridge becomes much more severe when fired in a light arm, and this effectively limits its weight between extremes.

As it is now, most soldiers who fire the big Colt .45 agree that the recoil is difficult to control, and that any attempt to lighten the weapon would pose a drain on combat efficiency. Bear in mind that, although more 9 mm ammunition could be carried by the pistolman for a given weight, it takes approximately two 9 mm slugs to do the work of one .45 bullet, so there is no real advantage, broadly speaking, unless you carry almost double the number of rounds. Actually, in most military situations, hand-to-hand fighting, where you can take advantage of extra ammunition for a pistol, is not common.

The armies of the world today are tending toward a pattern of lightweight small arms, and as stated previously, the weight of a weapon firing the .45 cartridge is somewhat limited. The 9 mm cartridge is extremely popular and efficient in the new lightweight submachine guns of various foreign powers, the most notable example being the Israeli UZI 9mm Submachine Gun. These weapons can be made unbelievably light and cheap from stamped parts of no great tensile strength, and their fully automatic feature overrides the advantage of the .45 ACP bullet for one-shot kills on men, as two or three slugs will hit the target at the same instant anyway. Tankmen, paratroopers, military police, assault commandos, and those specialized-services men whose jobs prohibit the carrying of a heavy, cumbersome rifle, can be armed with a cheap, lightweight 9 mm submachine gun with a folding wire stock. In most instances, these guns are cheaper to manufacture than auto pistols and are considerably more effective, plus being much easier to control and less "nervous" on full automatic fire than the .45 cal. Thompson Submachine Gun and the .45 cal. M3A1 "Grease Gun" of WWII and Korean War fame.

It is with submachine gunners that the weight saving of the lighter 9 mm ammunition becomes really considerable, giving a combatant much more firepower than was possible before with the heavier .45 rounds; and as the trend of modern armies is toward mobility and firepower, this is a very important feature in favor of the 9 mm Parabellum. Emphasis is placed on sustained volume of fire and saturation of a given area, and not on individual soldiers firing at an individual enemy, so the more rounds a man can carry the more effective

he will be as part of the fighting machine.

During an actual shooting war, the United States would probably find itself, as usual, supplying vast quantities of arms and munitions to our various allies. By adopting the 9 mm Parabellum, ammunition manufacturing facilities could wholly devote themselves to the manufacture of components for one particular cartridge, thus expediting the whole process. Logistics, or the problem of supplying and transporting the implements of war, ammunition being a major item, would be greatly simplified. Gone forever would be the headaches and mix-ups of WWII when we were supplying ammunition to Great Britain. To make use of our .45 ACP ammo, they converted their Webley Mark VI revolver from .455 to .45 ACP and chambered their Enfield revolver to .38 S&W. This posed a problem for Canada, too, since her standard military round was the 9 mm Parabellum, and she had to supply Britain with .45 ACP ammunition. Adoption of the 9 mm cartridge would solve the problem of interchangeability of ammunition on the battlefield also, allowing all the Allied troops to use each others' munitions. In an emergency, 9 mm shells can be used in current Russian submachine guns, making possible the use of captured military stores and weapons. .45 ACP cartridges cannot be used in any Russian weapon, thus denying our enemies the utilization of captured ammunition.

It is said by those in ordnance who favor the big .45 round that the adoption of the 9 mm cartridge would make obsolete the tremendous stockpiles we have of .45 ammo. This didn't seem to bother the Army when they adopted the 7.62 mm NATO round and shucked the Garand, BAR, and the .30 cal. LMGs plus hundreds of millions of rounds of .30-06 ammo to the scrapheap. The conversion from .45 ACP to 9 mm would require much less effort and expenditure on our part, and would aid our allies immeasurably in their struggle to keep their heads above water.

If the 9 mm Parabellum hasn't enough shocking power, it can be easily hopped up with little trouble. Even though the metal-cased bullet is detrimental to stopping power, it must be retained for penetration purposes; but the shape of the bullet could be changed to a semi-wadcutter for greater shock on impact. Velocity could easily be boosted up another few hundred foot-seconds without a too sudden increase in effective breech pressure. On the other hand, the same modification could be made on the .45 ACP, making it more than three times the man-stopper the 9 mm is.

So in the final analysis, whether or not the 9 mm Parabellum will be adopted by our Armed Forces depends entirely on what the long-range objectives of our military leaders are. Would standardization of ammunition be helpful, or would it hurt us in the long run? Can the Army withstand the 9 mm conversion while at the same time undergoing the 7.62 mm NATO conversion?

It's a two-sided problem, any way you slice it. No article like this can solve it; the best we can do is try to lay the cards out on the table. There are aces on both sides.

See Big New Subscription Offer—Page 54

HANDLOADING BENCH: Reloading For Black Powder Rifles

(Continued from page 13)

Probably the most important factor in the accuracy of the loaded round is the bullet. There are two general types of bullet available: cast and jacketed. Cast bullets are made of lead, either pure or in alloy form. Jacketed bullets are comprised of a lead core encased in a copper or similar metal jacket.

Of the two types, which is better? The jacketed bullet meets with immediate disfavor. The reason for this lies in the barrels of the rifles for which we are loading. They were made of soft steel and will not stand up to the increased wear caused by a jacketed bullet. More friction is created and consequently, more pressure is developed.

But isn't a jacketed bullet more accurate and more dependable on game than a standard load bullet? That is grounds for a long-winded and hot argument. A properly made lead bullet will do any job expected of the rifle as well as a jacketed bullet, whether it is hunting or target work. The case for lead bullets is that they are easily obtainable, economical, exceptionally accurate in the older rifles, do not harmfully affect the bore, and most closely duplicate the original factory bullets. (The Lyman Gunsight Co. supplies a complete line of Ideal moulds in all calibers, weights, and shapes which perform excellently in the old rifles.)

Try to pick a bullet for your rifle which

zine repeaters; and hollow points are for hunting. Gas check bullets don't have much use in the old rifles because the velocities usually stay under 1500 feet per second.

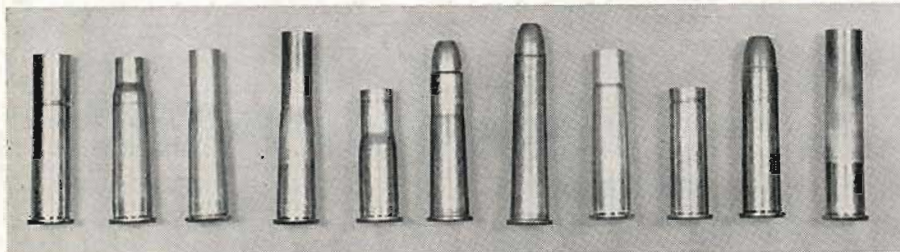
The hardness of the bullet depends pretty well on the individual gun. Generally speaking, 10 parts lead to 1 part tin is the hardest practical alloy. All bullets should be well lubricated to avoid leading.

Thus far, the components are taken care of. How to load? Start with primed cases of the proper size and weigh the charge carefully. Measuring is satisfactory but really fine accuracy is achieved with weighed charges. If fired cases are being used, it is not necessary to full length size them, nor is it necessary to go to the bother of cleaning them if they were previously used with smokeless powder.

Powder charges, according to bore diameter are listed in the table following. All loads are for *Unique* only! These are all suggested loads which are well below maximum. Loads are for the standard bullet weight in a given caliber. With these loads in mind, the reloader may experiment to find the best load for his particular rifle. Powder charges should never be raised more than 1/2 grain at a time. Keep in mind that most of these rifles were designed to operate at a pressure of 25,000 pounds or less.

Seat the bullets by hand or in a die. Crimping is not necessary for single shot rifles. Light crimp may be used for repeaters. Keep a record of all the lots you load, paying special attention to their performance.

The suggested loads give roughly 11,000



Cartridges above are all formed from .45-70 brass. Left to right: .45-70; .33 Win.; .38-56 Win.; .38-70 Win. (not yet fire-formed); .40-50 Sharps 8N; .40-60 Win.; .40-65 Win.; .40-82 Win. (short case; seat bullet out); .45 Danish; .45-60 Win.; .45-90 Win. The .38-70 and .45-90 are from .45-70 cases redrawn to 2.40".

| Cartridge | Grains Powder | Standard Bullet | Bullet Weight | Cartridge | Grains Powder | Standard Bullet | Bullet Weight |
|-------------------------------------|---------------|-----------------|---------------|--------------------------------|---------------|-----------------|---------------|
| .32-40 Winchester, Ballard & Marlin | 6.0 | 319289 | 175 | .40-110-3/4 Winchester Express | 10.3 | 403168 | 210 |
| .38-55 Winchester, Ballard & Marlin | 7.0 | 375248 | 250 | .44-60 Creedmore | 9.5 | 446187 | 465 |
| .38-56 Winchester | 7.7 | 375248 | 250 | .44-77 Sharps and Remington | 10.0 | 446187 | 465 |
| .38-70 Winchester | 8.2 | 375248 | 250 | .44-90 Sharps | 11.0 | 446187 | 465 |
| .38-72 Winchester | 9.5 | 375167 | 275 | .45-60 Winchester | 10.0 | 457191 | 300 |
| .38-90-217-3/4 Winchester Express | 10.0 | 375248 | 250 | .45-70 Gov't | 11.0 | 457193 | 410 |
| .40-50 Sharps Straight | 7.0 | 403168 | 210 | .45-75 Winchester | 10.0 | 457191 | 300 |
| .40-50 Sharps Bottleneck | 7.0 | 403168 | 210 | .45-82 Winchester | 14.0 | 457191 | 300 |
| .40-60 Winchester | 7.5 | 403168 | 210 | .45-85 Bullard | 12.0 | 457191 | 300 |
| .40-65 Winchester | 8.0 | 403168 | 210 | .45-2.4 Sharps | 10.0 | 457125 | 500 |
| .40-70 Winchester | 9.0 | 403169 | 245 | .45-2.6 Sharps | 12.0 | 457125 | 500 |
| .40-70 Sharps Straight | 8.2 | 403169 | 245 | .45-90 Winchester | 14.0 | 457191 | 300 |
| .40-70 Sharps Bottleneck | 8.2 | 403169 | 245 | .45-3/4 Sharps and Winchester | 13.0 | 457125 | 500 |
| .40-72 Winchester | 9.5 | 403173 | 295 | .50-70 Gov't | 12.0 | 515141 | 450 |
| .40-75 Bullard | 7.0 | 403169 | 245 | .50-95 Winchester | 12.0 | 509135 | 310 |
| .40-82 Winchester | 9.7 | 403169 | 245 | .50-100-450 Winchester | 15.0 | 509134 | 360 |
| .40-90 Bullard | 8.0 | 403173 | 295 | .50-110 Winchester | 17.0 | 515141 | 450 |
| .40-90 Ballard | 7.5 | 403173 | 295 | .50-3/4 Sharps & Winchester | 15.0 | 512138 | 450 |

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is as near to the original factory bullet as possible. For example, if you own a Winchester M76 chambered for the .45-60, the correct bullet is Lyman's #457191. This bullet weighs the same, and is roughly the same shape as the original factory bullet.

There are many different weights available in the different sizes so there is plenty of room for experimenting. Having decided to use cast bullets, which one or type should you use? The number available is astounding. There is a choice of flat point, hollow point, roundnose, pointed point, flat base, conical base, hollow base, concave base, and gas check.

Pointed bullets are ruled out because they require a higher velocity to stabilize them. Roundnose bullets are best in single shot rifles; flat points are best for tubular maga-

p.s.i. in straight cases 2" in length, with slightly lower pressures in bottleneck or longer cases of the same caliber.

Remember! Your loads are no more accurate or dependable than you make them. Care and precision in their loading will pay off at the range or in the field.

Great fun and enjoyment is to be had for the asking with these old rifles, but remember—safety first! Have any rifle for which you plan reloading checked over by a competent gunsmith; if he says it isn't safe—it isn't! Don't go ahead and play around with your life; having a breech block embedded in your forehead is an unpleasant experience.

What about the cost? The total outlay is under \$25.00. This includes mould, dies, capper, decapper, powder, primers, lead and cases.

NOT ALL DOUBLE RIFLES ARE "FOR AFRICA ONLY"

(Continued from page 28)

that this combination would group into less than 2". These groups were fired using iron sights. If one were to mount a telescope on the rifle, it would do very much better.

Mounting a telescope, however, has its problems on a double rifle. It has to be done at the factory in order to have the proper regulation. The additional weight of the telescope, if mounted with the rifle regulated with iron sights, would disturb the accuracy, and many a good double has been ruined by having work done on it by gunsmiths not familiar with the breed.

If a man is a good hunter and stalker, he won't take shots at extremely long range. A good hunter takes pride in killing cleanly and in not causing needless suffering of game, and the average hunter is simply not qualified to do this at long ranges. Most shots in woods or brush are taken at less than 100 yards, and for that type of shooting, the double with its good open sights is a natural.

So far as sights are concerned, I'm a firm believer in the wide V type with a platinum line in the center. This, in conjunction with a gold bead front or a gold sight like the Redfield Sourdough, is a splendid combination. Most double rifles have a standing bar and folding leaves, either two or three in number, and a front sight with a folding night sight in the base. The British call it a "moon" or jack sight. It can be lifted up from the front sight base to superimpose itself over the front sight, and it presents to the shooter a greatly enlarged bead. Usually this type sight is used in the heavier caliber weapons, for shooting in poor light, at short range.

If a person has a desire to hunt the most dangerous game on the North American continent, the double is made to order for him. Chambered for the .375 Magnum cartridge, it's one of the finest tools a man could use. Any grizzly, Kodiak, or polar bear could be dispatched with ease with a weapon of this type. If .375 doesn't seem adequate, a .400 Jeffery chambered for the 3" case using the 400 grain bullet can be used by the man who demands more power. Both would be excellent choices.

From a standpoint of safety the double has no equal. One only has to break it to determine if it's loaded, and there is no danger of the action freezing in cold weather. Also, the double is really two guns in one, and if one set of locks or firing pin breaks down, you still have the other barrel. The likelihood of this happening, however, is very remote, as these guns are built to survive anything short of sheer catastrophe.

For hunting the dangerous game of India and Africa, the double rules supreme. The most popular calibers for elephant, rhino, water buffalo, and hippo are the .470 Nitro Express and the .500-465, also known as the .465 Nitro Express. There are other calibers made for the big stuff, but these two are the most popular. Another favorite is the .500 3" case, which uses a 570 grain bullet and develops 5800 pounds muzzle energy. Some hunters use the .400 3" Jeffery for their heavy rifle, but it's a bit on the light side, according to the general consensus of opinion.

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Before the advent of smokeless powder, hunters used the double barreled black powder express, chambered for such calibers as the 4 gauge, 8 gauge, and 10 gauge. These guns used lead bullets and were not effective on frontal shots on elephant. Recoil and power were on a par with our modern guns, but they did not have the penetrative ability of the nitro weapons, and their weight was much greater. John Rigby, in 1898, developed the .450 Nitro Express, and to this day we have nothing better. He took the old, black-powder shell, 3¼" long, and loaded it with a charge of 70 grains of cordite and a 480 grain bullet. This gun and load sounded the death knell for all the blackpowder jobs. Using the smokeless powder, the hunter was not obscured by a pall of smoke, and the new jacketed bullet would penetrate into the vitals of any game, regardless of the animal's position.

The .450 Nitro Express would still be popular except for the fact that natives in India and the Sudan apparently got hold of a large quantity of .450 Blackpowder Express rifles and were using them in native uprisings. As a consequence, the .450 was barred in these areas. That's why Holland and other British gunsmiths turned out calibers like the .465, .470, .476, .475 #2, etc. Ballistically they are almost identical with the original .450 Nitro and are of just larger caliber. The ultra-large caliber weapons such as the .577 Nitro Express and the .600 Jeffery are really not necessary for elephants. Actually, they have needless power and weigh far too much to use effectively in an emergency. They are nice weapons to own and fire, but under present hunting conditions,

are of no use. Back in the old elephant hunting days of ivory hunters, and hunters who did the bulk of their shooting in thick brush and forest, these calibers were useful. Now their value is mostly sentimental.

As to what maker to select to make your double rifle, it would be a matter of opinion. At the present time, the only English makers are Holland & Holland, Westley Richards, James Purdey, Cogswell & Harrison, John

new, best quality double will run in excess of \$2000.00, so I would recommend buying good, used ones. By keeping in touch with the used gun market, good buys are made.

When purchasing a used double, extreme caution should be exercised or the buyer can get burned. First, check for looseness and rings on the standing breech. Then look the barrels over to see if they are pitted or the chambers burned. Check the caliber and find



Note massiveness of breech, action, barrels of .600 Jeffery under-lever double rifle once owned by famous African hunter Dr. Sutton.

Rigby, and I believe Charles Lancaster. Unfortunately, the prices of new English doubles are staggeringly high. All of the double rifles that I have used but in excellent condition. Some of the makers, other than those listed above that one may run into are, W. J. Jeffery, Grant & Lang, William Evans, E. J. Churchill, Watson Bros., Charles Boswell, Harrison & Hussey, F. P. Baker, Joseph Manton, W. W. Greener, Powell, James Woodward, John Wilkes, and many more obscure ones. Dan Fraser, of Edinburgh, Scotland, also made some fine rifles. The price of a

out if ammunition is currently available for it. If an ejector model, find out if the ejectors are operating. In all cases, the proof markings and calibers are stamped on the table flats of the barrel. An example of this would be the .450 Nitro Express which is marked as follows: .450 caliber; 480 gr. bullet, 70 grs. cordite, 3¼" case. A .450 Blackpowder Express would be marked: .450 caliber, 120 grs. blackpowder, 270 gr. bullet, 3¼" case. A .450 Blackpowder Express, light cordite load is marked: .450 caliber, 45 grs. cordite, 365 gr. bullet, 3¼" case. Note that in all instances the case is the same length, and the danger in using the full cordite load can readily be seen.

In order to detect the difference between the blackpowder and light cordite expresses and the full cordite rifles, one must first observe the rifling. The older blackpowder jobs have deeper rifling and the steel is much softer. Also the weight of the older guns in similar calibers is much lighter. A few full cordite rifles were made in hammer style, so just because a weapon has visible hammers doesn't mean that it won't fire the nitro shell. By the same token, some blackpowder jobs were hammerless, so it behooves one to be very careful in reading all of the markings on the gun to determine what type it is.

Because a double rifle is not as strong as a bolt action rifle, the breech pressures are usually lower. We find that, in many cases, pressures run around 30,000 pounds. This is true even of the .600 Nitro Express. The idea behind this is for the rifle to have easy extraction, even in tropical climates when the heat causes increases in pressure. There are a few shells, such as the .425 Westley Richards, .375 Magnum, and .318 Westley Richards, which develop much more pressure. Only a few of the good makers manufacture rifles for these shells because, in addition to the pressures being higher, the shells are rimless. A little half moon arrangement is fitted to the extractors for proper ejection of the fired case. Westley Richards and Holland will both build rifles for these shells.

A question that frequently comes up is whether to buy a non-ejector or an ejector model. There are pros and cons to both sides, but I prefer the ejector model, as it

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would facilitate reloading. Another question that comes up is that of the safety being either automatic or non-automatic. I like the non-automatic type, as a conscious effort is not required to throw it off if one breaks the gun to reload one barrel. Most gun manufacturers fit both double shotguns and rifles with the automatic safety, but it requires very little alteration to make the safe non-automatic. Just remove the connecting rod between the top lever and the slide of the safe.

When selecting a double rifle, one has a choice of either the box lock or the side lock. Usually, the side lock rifle is more expensive, as it has more parts and is more difficult to produce. Side lock guns do have better trigger pulls than box locks, and are supposed to be stronger. The only disadvantage of the side lock is that more of the stock has to be cut away and, because of heavy recoil in the large calibers, splits occur in the stock. The side lock presents a more imposing appearance and gives greater scope to the engraver, but for a using gun I think I'd be inclined to go to the box lock.

Some of the better makers, among them Holland & Holland, make the side locks with hand-detachable plates, so the locks can be detached and examined easily. Removal of these locks, if done very often, is apt to damage the mortise in the stock, allowing the locks to become loose. On my .465 Holland Royal, I deliberately took the turncrew out and had the locks made fixed. This eliminates the desire of people to "see the locks." Westley Richards, one of the best English makers, produces a rifle having hand-detachable box locks that are most revolutionary in design. The locks are removed by turning back a hinged cover plate in front of the trigger guard and lifting out the locks. This system is one of the best, as the stock is not cut away at its junction and there are no holes drilled through the frame. The Westley Richards is a gun anyone would be proud to possess. I have one in .425 caliber that once belonged to the Maharaja of Gwalior.

Box locks are divided into two types, one of which, the standard Anson & Deceley, was invented by Westley Richards. At that time, Anson was a gunsmith with the company and Deceley was managing director. This action was the first hammerless introduced and is standard with the gun trade today. The other box lock is Westley's hand-detachable lock, which is a superior version of the Anson & Deceley. Their special action is almost as strong as the sidelock and, because less wood is cut away, has a much stronger stock. Westley also developed the top lever arrangement on double guns, and almost all doubles use this system. A few, such as Jeffery, use the under-lever principle on their heavier cartridges such as the .600 Nitro Express, as they claim it gives better extraction culling action. This type is like the .600 Jeffery I have.

Side locks are also divided into two types: bar action and back action. The back action is the stronger of the two, but it doesn't have as good a trigger pull as is found on the bar action. Holland and Purdey use bar actions, while Lancaster and others use the back action. Regardless of which one you choose, you won't go wrong.

Unless you are an experienced handloader and have access to a chronograph, don't plan on handloading for your double. These guns

are regulated at the factory for one load only, and an increase or decrease in velocity will cause cross firing or other divergence of the bullets. The makers have a man doing this job at their range, and when the gun leaves the factory, it's sighted according to the various leaves on the rib. Some may not agree to this sighting method, but it seems to work on the doubles that I have.

Most of the doubles that I have seen are engraved, and the engraving is mostly scroll work done very tastefully. I like engraving on a gun of this type, and I believe it enhances the value of the gun. Some top quality guns, however, are not engraved, as some men want a plain gun for reasons best known to themselves.

Recoil is another subject that frequently comes up, especially in regard to the heavier calibers. The recoil is not bothersome if the weapon is held firmly to the shoulder. On the larger calibers, it's more in the nature of a large push. Muzzles rise, but are relatively easy to bring back to the target. The .600 makes a lot of noise and does give a bit of a push, but it isn't unpleasant. If one fires a long string of shots with the large calibers, a slight headache may result.

Many fine doubles are made on the continent by Merkel Bros., J. P. Sauer, Richard Marholdt, Merkel, Johann Springer, and others. These are not in the class of the British guns, but are well made and can be had for much less money. You will find many of the over-and-under type manufactured by the Europeans, as this type is much easier to regulate. The reason for this is that the two barrels of the over-and-under are in the same plane, and the movement will be in the same

direction. The side-by-side double, because the axis of the barrels is situated on either side of the center of gravity, has a tendency to swing away from the other barrel at the moment of discharge, which makes the regulation of the side-by-side more difficult. I, personally, like the balance and appearance of the side-by-side, but it's a matter of personal preference. The only London maker that made a practice of building the over-and-under type of double rifle was Westley Richards, and I don't think they make them any longer.

As a matter of comparison between magazine rifle stocks and double rifle stocks, the double has it all over the magazine. Double rifle stocks are much like a high grade shotgun, and fit just as well. In most cases, the factory stock will fit most men unless they are abnormally built. You won't find any inlays or white spacers on a good double rifle; they just don't build them that way. Neither will you find peculiar cheek pieces, forends, or carvings on them. They lean to the classical side, and look the way a rifle should look.

Double rifles, because of their construction, can be taken down and carried in a trunk case with no danger of the point of impact being changed. This affords the hunter a compact way of packing the rifle for shipment. A good case is a necessity, as one can put all cleaning tools, ammunition, and parts in the English-type trunk case.

My advice is—learn to know the double rifle. After all, it was here long before the magazine, and it still holds top place in the hearts of many an experienced hunter.



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GUN DIGEST TREASURY

Edited by John Amber
(Gun Digest Co., Chicago, Ill. \$3.95)

This 384 page book, bound the same and the same size as the usual edition of "Gun Digest," is a compilation of the best articles and features that have come out in the 15 editions of "Gun Digest." A very fine reference work, and excellent reading for all gun cranks. The story of proof marks is alone worth the cost of the book, as it covers the proof marks of about all European countries.

This volume is loaded with excellent articles on many phases of guns and shooting, collecting and gunsmithing. Amber has selected the top features from his 15 years of publishing to form his book and it is a "must" for all shooting men, collectors, and gun cranks.—E.K.

JOHN WESLEY HARDIN: TEXAS GUNMAN

By Lewis Nordyke
(William Morrow & Co., New York. \$4.00)

Hardin was unique among western gunmen in many ways, not the least of which being the fact that he wrote his own life story. Had others done likewise, as honestly and as well, much of the controversy about them might be resolved. Nordyke has added literary values to the story in the form of evaluations of the times, the circumstances, the factors that may (or may not) have motivated the actions. Few of us today can ever truly understand the strange, proud, tough-fibered, stubbornly self-minded man who walks these pages, but Nordyke has drawn a clear and detailed picture of him; what you see in it may be a measure of your knowledge of those times and those people. Because, if you are in any sense a student of the west and its gunfighting gentry, you'll want this book.—E.B.M.

COLT LETTERS

Collected by James Mitchell
(Stackpole Co., Harrisburg, Pa., \$10)

Reviewing a book about Colt imposes a responsibility on me beyond that of the average reviewer, for such a book may be thought to obsolete my own "technical biography" of Colt's life and work. Happily, this is not the case. "Supplementary to" other works on Colt is what the cover blurb says, and supplementary this is. Mitchell has published a number of dozens of most interesting letters. Especially interesting are new letters of Amos Colt, who served the Colonel as southern salesman at the eve of the Civil War. Of much interest is the correspondence about the importation of Enfields at this same time. Mitchell in a way has done me a favor, by showing that my iron-mounted Potts & Hunt short rifle, while not liked so well at the time, is currently a desirable Colt rarity—one of 480 brought in by Sam and sold, as the correspondence says, to the Federal Government. A specialist's book, it does add to the lore of Sam Colt.—W.B.E.

THE AMERICAN CARTRIDGE

By Charles R. Suydam
(Lawrence, P.O. Box 1777,
Santa Ana, Calif. \$7.95)

The publisher left the price off the dust jacket in this one, but my old friend Chuck Suydam seems to have left nothing out in his survey of "The American Cartridge." The title has caused some complaint—"There ain't no centerfires in it," we have heard some cry. But the first paragraph in the book explains the emphasis on the one-piece drawn copper or brass rimfire, which as a distinct American invention aptly deserves a book about it.

The photos for identification are actual size but precise in sharpness and clarity—excellently printed so they can be used for practical reference. Ballistics are not tabulated. The main purpose of this handy volume is as identification for the collector. Included are passages on preparing cartridges for the collection. It's a specialist's book, but worthy of starting you to specializing in collecting: The American Cartridge.—W.B.E.

GERMAN SECRET WEAPONS OF WW2

By Rudolph Lusar
(Philosophical Library,
15 E. 40th. N.Y. 16, \$10.00)

In the broad scope of preparations for war, small arms admittedly take a small place. Thus the material in this book on German arms—the MKb 42 and evaluations of the MP44, for example, and mention of the corner-barrel "krummerlauf"—are probably well known to GUNS readers. But there is much of interest in this book. For example, how many of you knew that the famed Paris Gun of World War One was duplicated with higher efficiency and range in "Langer Gustave," a 210 mm. cannon firing a 235.4 pound shell about 87 miles? Or that the biggest cannon built was the 800 mm "Dora," weighing 1345 tons, and with a crew of 1,500 men to serve it? In English, tersely presented and crammed full of specifications where available, this is a companion book to Col. Leslie Simon's out-of-print "German Research in World War II" (Combat Forces Press). Lusar's book can be a guide to research for the specialist, as well as a readable survey of armaments development still affecting our ordnance and rocket programs today.—W.B.E.

HORSEMEN BLUE AND GRAY

By Milhollen, Johnson & Bill
(Oxford University Press, N.Y. \$10)

The historical-minded collector will be somewhat disappointed in this otherwise excellent pictorial story of the Civil War cavalry forces. Few of the many hundreds of photos and contemporary battle sketches show recognizable firearms. But for background of the cavalry weapons of the War, this is a useful book. Not essential for the gun fan, but worthwhile.—W.B.E.

CARTRIDGE BALLISTICS

By Dynamit Nobel AG
(Stoeger Arms Corp., N.Y. \$1)

Handy pocket guide to technical information about all current R.W.S. sporting cartridges and bullets. Especially good if you have a pre-war German rifle and need shooting facts about its cartridge. Directly from Stoeger Arms Corp., 45-18 Court Sq., Long Island City 1, N.Y.—W.B.E.

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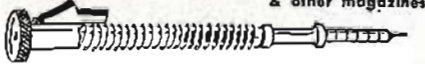


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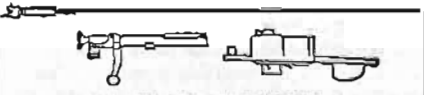
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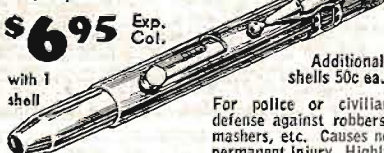
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WHY NOT LEARN FROM THIS DESIGN?

(Continued from page 19)

Caliber 6.5 mm, barrel length 18 inches, magazine capacity 15 cartridges single row feed, with bottom ejection. Fire is automatic only, from an open bolt, and the firing pin is integral with the bolt face. A small reservoir is mounted on the right side of the gun, providing brushed-oil lubrication for each cartridge as it is fed into the chamber. The most extraordinary feature of the gun is that, although chambered for a standard service cartridge, it is completely devoid of any type of locking system. The design is of the straight blowback type, until now found only on pistol-caliber guns, and Japanese training machine guns. Apparently, excess gas pressure is vented through a port five inches from the muzzle into the gas cylinder. An adjustment is provided at the rear end of the gas cylinder to allow either controlled gas expansion in the cylinder or straight exhaust through a series of relief ports.

In any blowback system, barrel vented or not, critical factors are the mass of the recoiling parts and the weight and physical proportions of the springs. Col. Chinn's equations (The Machine Gun, Vol. IV, Lt. Col. George M. Chinn, U.S.M.C.) show that the springs do not "hold the breech closed" but the inertia of the breech block resists the force of the cartridge pressure when fired. The function of the spring(s) is to return the mass to forward position after recoiling, and to some degree absorb the slam-bang arresting of the breech block in full recoil position.

In the unidentified Jap gun (only one of its type known in the U.S., apparently), the total weight of the gun is 17½ pounds, but the total mass of the recoiling parts—the bolt and bolt handle—is just *one pound*. This is considerably less than the breech block

mass of 27 pounds long stated to be necessary in a ".30-caliber" gun if built on an unlocked system. The bolt travels 6½", compressing a 75-coil spring of wire .057" diameter, coils ¾" diameter. Extended out of the gun, this simple spring is 14½" long; compressed solid it measures 4½". The dead force required to begin to move the bolt out of battery against pressure of this spring is about six pounds.

While some readers will find similarities between this gun and the uncommon but easily recognizable Japanese reduced-charge Training Machine Gun, these are superficial. The trainer is of crude and flimsy construction while this weapon, although simple and inexpensive, is of exceedingly sturdy construction, with relatively few stampings, and has such additional refinements as a carrying handle, bayonet stud, fully finned barrel, and sights adjustable to 1200 meters.

Unfortunately, the author was unable to determine the rate of fire and observe general functioning, as the weapon had been welded at the chamber, apparently when it was brought into the United States. Even with these disadvantages, a student of automatic weapons design would be fascinated by the amazing simplicity of this mechanism. Simplicity naturally results in ease of manufacture and low cost-per-unit, features in which the latest U. S. service weapons are notably lacking. Designs such as this cause one to wonder why Research and Development programs incorporate 50-year-old designs into "new" weapons costing more than a thousand dollars apiece, such as the M60 Machine Gun. (Note: the cost of the tripod alone for the M60 is over \$500.)

DO THIS IN YOUR TOWN

(Continued from page 33)

In talking with her, she nostalgically recalls young Ted bagging his first deer at age seven, and taking first Marksman against the adults at Corona del Mar gun club in California at 10.

The next three weeks, the class continued to fire positions, with all targets being scored toward the Junior NRA medal. Each target of 20 or more points is counted toward this goal. A former Marine Corps officer with a few Expert badges in the World War II and Korean memory box, your writer had been mustered into service as an assistant at this point and got a tremendous kick out of seeing the boys improve.

By the time this reaches print, this class of 28 will have completed their final written exams, fired their match for graduation, and a new group will be forming. The winter classes, of course, fire indoors on the new 50' gallery which Rangemaster Wade and Instructor Charles Butkus erected during November. Eight firing points have been provided and will be used for both rifle and pistol competition.

Any boy or girl between the ages of 9 and 17 is eligible to join this instruction group. A junior membership in the Waukegan International Shooting Ass'n. is available at \$5.00 per year and any son or daughter of a family membership holder is like-

wise invited to enter a class. The opportunity for such expert instruction is mighty rare in these days of excessive anti-gun legislation.

Captain Couch holds every rating offered by the Marine Corps and has fired matches in 20 states as well as Hawaii, Okinawa and Japan. His personal trophy case is packed with over 100 medals and silver cups to attest his skill with all types of weapons.

On graduation day, Rangemaster Wade showed the boys a stunt or two about doping the wind. With a lakefront breeze kicking along between 25 and 30 knots, Jim banged out a rapid-fire, 5-X possible with his Colt's .45 and just happened to have an NRA referee on hand to verify the target.

The point is, of course, not that you must move to Waukegan and enroll your boys and girls in one of these classes. The point is—why not start a matching activity in your own community? Somewhere in your neighborhood, whether you know them or not, are men and women who could carry on just such a program of junior marksmanship training. If you don't know them, write the National Rifle Association for information on clubs and members in your area. If there are no clubs, form one. The NRA will tell you how you, and others, can become qualified, certified Instructors. It's worth doing. Why not get started?

THESE GUNS CUT TAXES

(Continued from page 31)

the officer to draw his revolver from its holster and put all or most of his shots into a man-sized silhouette target, while firing from the hip. The PPC does prepare an officer to return the fire of a known felon, after the policeman has sustained a direct hit in his "shooting arm." And in the PPC course, the shooter fires from both sitting and prone positions, so that he can return fire while exposing less of himself. One exercise of the PPC combat-ready training course teaches the technique of shooting around the corner of a building, or other shelter, with either hand. And all this instruction is given with the stop-watch ticking away, under the premise that, in a gun-battle, seconds spell the difference between survival or a statistic in departmental mortality records.

At this point, you say, "So what?" Some police departments give no firearms instruction. Some confine such instruction as is given to formal or informal target shooting, for score, and under range conditions. All too few police departments, are fortunate enough to enjoy either the budget or range facilities for an effective, life-saving, Practical Police Pistol Course. How does that affect me as a citizen, taxpayer, voter—or even how does it affect me as police officer, department head, or city official?

Brother, if you're a taxpayer (and who is not), whether or not your city provides PPC training for its law enforcement officials hits you right in the spot nearest and dearest to you, your pocketbook!

"Oh, sure," you chortle. "A PPC course is going to raise my taxes!" No, my patient and long-suffering taxpayer. A PPC course in your city will not put the bite on you for more of your honestly and hard-earned pelf. Your tax load will be lightened by installation of an effective, active PPC training program for local law-enforcement agencies.

National estimates set the cost of completely equipping and training a law enforcement officer at five thousand dollars. If just one officer loses his life in a gun battle because he was not combat-ready, that five thousand dollar investment is lost to the city, not to mention any incidental losses, such as payments of medical expenses, or payments to a wife and/or orphans. In contrast, any community can build on city land an adequate PPC range for twenty-five hundred dollars or less. And your city will get better police protection from a force made up of confident, well-trained officers, who are sure of their ability to handle a difficult situation. Morale can be expected to be up; violent crime rates may be expected to be lower.

It may seem paradoxical to the casual observer, but responsible law enforcement officials feel that a well-trained officer, sure of himself, and sure of his combat readiness with a firearm, is less likely to draw the gun and use it than the poorly trained officer. These high-ranking police officials have observed that the officer who does not know how to shoot his gun is most often the officer who fires a wild shot endangering civilians, and who may use the gun in a situation which does not warrant its use.

A combat-ready police organization pays
(Continued on page 55)

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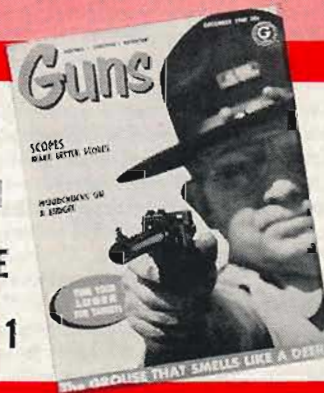
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(Continued from page 53)

other valuable dividends to a municipality. In order that the officer be combat-ready, he must have training and practice, and must have it in liberal doses. The training process builds morale and esprit de corps for the department. In passing, we might observe that the FBI, whose morale and esprit de corps is a matter of public record and praise, makes expert shots of every agent. No hoodlum looks forward to a shooting match with an FBI agent. But the same hoodlum often has contempt for the combat marksmanship of a local officer.

Numerous examples exist of dividends paid to cities by the support and maintenance of adequate arms training programs in local law enforcement agencies. When Chief Ivan Carlson took over the Elkhart, Indiana, police department a few years ago, he found a department low in morale, with tattered uniforms, at a low ebb in public relations, housed in a headquarters building out of the gay nineties, and lucky to have one squad car in shape for patrol at any given time.

Chief Carlson's first request to the city council was for \$6500 to be spent for new firearms, ammunition, and training facilities. Using the \$6500 worth of firearms and ammunition, plus regular training sessions, Chief Carlson within a few short years headed a department with high morale, spanning new uniforms, housed in an attractive and efficient headquarters, and enjoying unbelievably good public relations. Four new squad cars followed, plus radar equipment, and an active auxiliary unit. The chief frankly answers all comments on the high caliber of his department with the observation that it all began with the acquisition of new firearms and the instituting of combat training courses. The Department had been equipped with Krag .30-40 carbines. These were ridiculously obsolete for police work, of course. But, significantly, the collector market

made them worth many times the \$1.75 surplus cost to the Department when they were bought sometime about World War I. Now, the Elkhart PPC team is one of the hottest teams in the United States.

In industrial Hammond, Indiana, a new compulsory shooting program for every officer and detective was installed one year ago. No excuses were honored for failure to fire at the appointed time. Officers detained by duty, sickness, or vacation were assigned alternate periods to get in regular practice. Hammond's mayor donated trophies to be awarded to the high officer each month, and local banks donated trophies to be awarded on the basis of a year's performance. When I witnessed a regular shooting session, it was not difficult to see for myself that the upturn in morale reported by Chief Kambiss and Asst. Chief Johnson was present. After this observation, it was no surprise to read in the Hammond "Times" of improved police performance in the city.

Some qualified observers feel that the difficulties of the Chicago police department (to name but one) stem in part from an inadequate combat arms training policy. Certainly combat training for a police department will not solve all its problems, but the evidence is overwhelming to the effect that a good, sound, well-supported combat-readiness program will go a long way toward shaping the kind of a professional law enforcement agency which should be a must for every community.

It is often said that the police department of any given city is as good as the city wants it to be. If you want good law enforcement, pennies spent on making your force combat-ready will pay you dollars in dividends.

Law enforcement is a profession, and one of the highest order. Why deny your police department the tools and training of its profession?

YOU CAN'T HIT 'EM IF YOU DON'T SEE 'EM

(Continued from page 23)

He waited some more. So did the deer. Then, when the drivers on the far ridge had worked their way around to the valley below, the buck rose quietly and headed back away from the noise-makers. His direction took him at right angles across the hunter's field of fire.

An old trail, still free of brush, angled away from the hunter's stand, providing a clear path for a shot. As the deer reached the edge, he stopped for another look. The .30-30 was ready. It barked once with the sights squarely on the animal's shoulder.

The deer jumped, ran a few feet, and fell. All that was left to do was dress him out.

Now, there is nothing unusual about this particular shot. But it does illustrate a lesson that all but the most experienced deer hunters should heed. You may be better off letting the deer come to you.

The way it is today, you are more likely to meet another hunter in the woods than you are a deer, especially if you're like me and step on every dry twig within five miles. So, if the other guy is moving around, why not let him push the animals up to your stand?

Our hunting area is not unlike most of the eastern whitetail country. Hardy County, West Virginia, is a bit mountainous, like the

rest of the Appalachian chain, and it is densely wooded. You'll find deer country like it from Maine to Florida, and the deer themselves are much like those of Pennsylvania, Maryland, New York, North Carolina, or New England. I am partial to Hardy County because the game bag has averaged over 2,000 since 1951, and 3,000 and more the past few years. The percentage of hunter success is always high.

M. E. Wolf's farm is another reason for my partiality. At the edge of a wide agricultural valley through which Lost River runs, Wolf's farm goes almost to the top of the mountain. There are steep slopes and many "hollers" which the deer like. When the hunting pressure is on, it is like Grand Central station at 5:00 p.m.

It takes hunting pressure to keep the deer on the move. At twilight, they will come down into the valley to feed on luscious farm pastures, and they'll stay down all night during the hunting season. But just before daylight, they head back up into the high country to bed down out of sight for the day.

You can walk over razorback ridges all day long and maybe, if you're lucky, catch a quick glimpse of a white flag disappearing into the brush. That is, unless you are a part of the woods itself, like Arthur C. Bachman,

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of the state conservation commission. Art knows that tilted country, and he can walk a half hour and count a dozen deer. I could make the same walk and perhaps see one.

Since that deer has had much more experience in the woods than I, I figure it's wiser to let him do the hunting.

There are other conditions besides having other parties not too far away. If the ground is dry, their noise will stir up the woods. Yours would do the same. So keep the noise away from you and sit quietly. One member of your party might have to scout a wide circle, "running" the top of a far ridge, to move animals in your direction.

In deep snow, the deer are going to bed down and may let you pass by within just a few feet. You probably won't see them. But if there is a light snow, you've got it made. The snow softens your footfalls, and you can see where the deer have been.

Whatever noise or movement you make in the woods will alert every animal around. Walking must be interrupted frequently with quiet periods of listening. Better yet, pretend you are part of that old stump you're sitting on, and deer may walk right over you.

Last year, a doe and five fawns were all within 50 yards of me at one time while I played that "part of the stump" routine. They nosed around for a while, then went nonchalantly on their way. In a situation like this, it doesn't matter much what rifle you use. You would not call the .243 Winchester a woods gun, but my first Hardy County deer was taken with a Model 70 in that caliber. It had a 4-power scope, however, and that sighting equipment is mandatory for a small, fast bullet in the woods. You can pick the spot to shoot where there is enough opening for the bullet to get through the brush.

You will see hunters carrying .30-06's, 7 mm's, .308's, and even .25-35's. But the trophy belongs to the time honored .30-30. The old lever action is still the most popular and most used gun in the woods. During the 1958 deer season in Maine, three of the four biggest bucks taken fell to the .30-30. The biggest one was bagged with a .32 Special, still in the lever action M94.

There are many calibers that can be used effectively on deer, and the choice is affected by what other game you will want to hunt with the same rifle.

The .30-06 and .308, because they are the old and new military calibers, will always be popular, and they are versatile enough for use on game from woodchuck to elk. They are both available in factory loads with bullets ranging from 110-grains to 220 or 200-grains respectively.

But if your primary game is more in the woodchuck category and you go after nothing larger than deer, it makes sense to choose one of the lighter 25's, like the .243, .250 Savage, or .257 Roberts. Being the newest and offered in the widest variety of rifle models, the .243 is a wise choice in this group. It is potent medicine for groundhog and, with a scope to pick out the avenues between the trees, it is effectively used on whitetail with the 100-grain bullet. The 80-grain bullet is made to blow quickly in a small woodchuck.

If the range of your shots will be long, the .270 Winchester or .280 Remington might be your choice. But, if your game will be larger than whitetail deer, then the .300

H&H, .358, or even the .338 Magnum are called for. Yes, I'm being vague. There are infinite variables, and no one gun will meet all the conditions. Better talk to your local conservation officer and gun dealer for opinions on what is best for your conditions.

Consider also that you will be carrying that rifle over many slopes more than you will be shooting it, so temper your choice for its carrying qualities, too. The light lever action models hold an edge here, but they are not as versatile. The .30-30 is an excellent deer load out to about 200 yards, but it loses its punch at the longer ranges, and it is too much for woodchuck-size animals. It has even taken plenty of bear in the hands of an experienced woodsman, but the wise hunter selects a .338 or .375 Magnum to give himself an extra advantage in this department.

Every gun bug has his own favorite rifle and caliber. You probably do too, and as far as you are concerned, you are probably right, since the man who owns it is the one to be satisfied. As long as you take only those shots that are within the capabilities of your rifle/cartridge combination, it will serve you well.

But heading up into the high country for a day's deer hunting requires more than just rifle and ammunition. It is cold during deer season, so warm clothing is a must. And don't spare the horses. You can always take off something if it warms up during the afternoon. But, if it stays cold, you can't put on a sweater that was left back in camp.

This waffle-weave thermal underwear is good for the hunter who moves around. It is light weight, warm when you sit but not hot when your body temperature rises. Over this, wear wool pants and wool shirt, then brush pants, if you need them, and a sweater. Your coat should be light in weight, water repellent, and a good wind breaker. You'll want a warm cap, boot socks, muffler, and gloves. I like a pair of unlined deer skin gloves. They are warm enough yet not so bulky that they interfere with triggering off a quick shot.

Of all your apparel, boots are the most important. Poorly fitted boots could get you in bad trouble when you are miles from civilization and they raise a blister on your heel. Your feet warm up as you walk and will perspire, so socks must be absorbent. When you sit for a time on a stand, unabsorbed perspiration can give you frostbite at worst and, at least, make your feet cold. When there is snow on the ground, wear a pair of rubber thermal boots. If the temperature is above freezing and the ground is dry, leather lumberjack-type boots are better.

Other small items, which could be very important, can be stashed away in your many pockets. Lighter and smokes, plus some extra waterproof matches, just in case. Wood matches dipped in melted paraffin will stay dry and will strike through the wax. A hand warmer is a real comfort during the dawn chill, and a small roll of toilet paper could come in handy.

Carry a whistle to use for signalling. Our party set up these signals—one blast means "Where are you?" or "Here I am." Two means "Let's get together, but no hurry." Three is "I've got a deer; come quick." And four is like the nautical danger signal, "HELP!"

A candy bar, like the Nestle's Sportsman's Bracer, adds little weight and gives you that

needed pick-me-up at mid-morning.

Binoculars help you find horns on a distant deer or find that off-shade of brown in the underbrush. They are essential to identify other hunters. Never, never use your rifle scope to spot another hunter.

At least one member of the party should carry a small first aid kit with sterile gauze pads, hand-aids, burn ointment, tape, and Mercurochrome. A snake bite kit is a good idea when you're in snake country.

The hunting knife is needed to dress out your game, but it's your most important piece of survival gear, too. It can cut a shelter, boughs for a bed, sticks for a fire, or trail markers. Of course, should you become lost, the best bet is to stay put, build a fire, and make yourself warm and comfortable. Rig up a shelter and start thinking about supper.

This is when a fish hook on a length of monofilament line, baited with a patch of colorful cloth, can provide something to cook on your campfire. It takes up little room tucked into a corner of a coat pocket but it could be a life saver.

If you're out alone, you should have a map and a compass. And you should have studied that map before you left camp. County surveyor's maps are generally available at the courthouse. Take the time beforehand to learn how to use a map and compass, and you can find your own way out of the woods.

In any event, going out alone offers hazards itself, so let someone know where you are hunting and when you will be back. If you fail to return, he can alert a search party. Just be damned sure you let him know when you do return.

You shouldn't get lost if you have used the map to familiarize yourself with the area and keep spot-checking your position.

We hunted the western foot of Nathaniel Mountain in Hampshire County, West Virginia, one year, and the most experienced member of our party was several hours overdue. The mountain side was cut with many hollows and ridges like the fingers of a giant hand. A rut road followed the base of the mountain up to a lumber camp. The plan was to station several hunters along the rut road while the rest of us move horizontally along the mountain side to push the deer off those ridges. It was simple. All we had to do was cross three ridges and come back down the third hollow.

We were just about ready to head back up the mountain to search for the missing man when he came trodding happily up the rut road.

"Sorry you were worried," he said. "Trouble was, that third hollow doesn't go all the way up the mountain. I got up on a wide plateau, and all the hollows looked alike."

"Well, how did you find your way back?" we asked.

"You remember, on the map, this lumber trail forks back down a ways, and another trail cuts around the other side? I just followed that trail down to the intersection then came back up this one until I found you."

The explanation sounded simple, and it was—because he had studied the map, knew there were two roads, took the right direction when he found the other one. A wrong turn there could have been disastrous—at least to the extent of a damned uncomfortable night for him and us.



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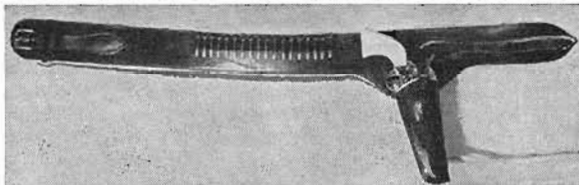
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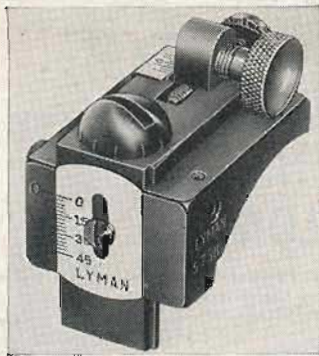
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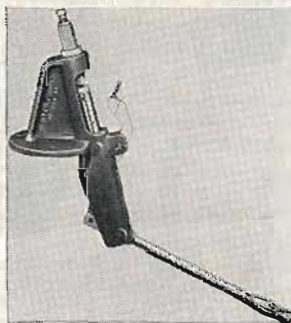
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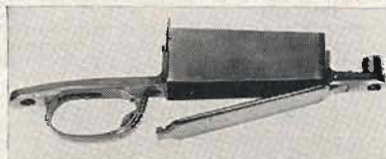
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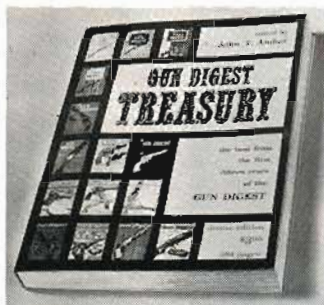
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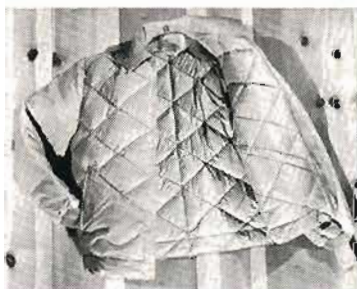
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- .22 K-Hornet
- .222 Remington
- .308 Savage
- .250 Savage
- .22-250 Var.
- .308 Winchester
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- .30 Remington
- .243 Winchester
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BRUSH HUNTING LOADS?
(Continued from page 24)

that should be a honey. Hereabouts, however, there is a second and very different school of thought about brush-shooting deer—one that will, I suppose, bring screams of anguish from some but one which, I think, brings sense strictly within the limitations stated. I'm not recommending it for any and everyone; far from it. But it lends a new aspect to deer hunting for those who are qualified to use it and who will abide by its rules.

To be qualified to use it, you should be a varmint, used to and capable of delivering pin-point accuracy. You shoot the year around, and you can spin a bullet consistently into a tiny target—such as, for example, a hole in the brush behind which a deer is standing. Note that I say "standing." This is not for running shots, ever. That is one of the rules I mentioned. If you are trigger happy, this is not for you; this is strictly for people who are not excited by the sight of game, who can and will wait for the right shot. (Many times, a deer that is jumped into a run will stop within range, and look back. If you're ready, and if you can put the bullet where it belongs, this is the time to get him. I've done just that, several times.)

I'm talking about deer hunting with rifles carrying six, eight, or ten-power scopes, rifles of such calibers as the .222 Remington, the .22-250, the .220 Swift, the .243 Winchester, the .244 Remington, and their ilk. Rifles shooting little pills at high velocity, with superlative accuracy, in the hands of men who can use that accuracy.

I do not mean that larger calibers are not inherently accurate; they are. But the big bore big game rifle, with its lower powered scope, bigger and slower bullet, and greater recoil, simply isn't intended for the half-minute-of-angle accuracy possible with the varmint; and this is the accuracy needed for this kind of shooting.

There are many arguments about killing power and proper loads for game, but most experienced shooters, however much he may adhere to the big bullet school, will admit, if you pin him down, that accuracy makes up for a lot of missing weight in the bullet.

That it works is a matter of record. "Skeet" Skaggs of Briggs, Texas put a 50 grain Hornady bullet out of his .222 Remington through a 2" hole in the brush at 175 yards to bring in a nice fat 10 pointer. He is a very experienced hunter and a fine rifleman. His skill and his knowledge of how to use the fine accuracy of his rifle, plus a good 6X scope, enabled him to score a clean one-shot kill that would have been almost impossible lacking any one of those ingredients.

The placement of shot is all important. As a graphic example; one late afternoon, I was sitting just inside an oat patch waiting for a buck that had been coming in pretty regular. I was coddling a new Marlin-Sako .222 with a Bear Cub 6 scope and Stith Dovetail mount. I had been having excellent results using 20.5 grains of 4198 behind the 50 grain Hornady bullet, killing jack rabbits at 200 to 250 yards with pretty consistent regularity. After a few minutes of waiting, I saw my buck grazing nonchalantly at what turned out to be 262 steps. I got a good position and let go. The bullet caught him right behind the shoulder, went through the top of his

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heart, and came to rest just under the hide on the far side. He made a small circle and fell dead. I doubt very seriously if he could tell the difference if he had been shot with a .300 H&I.

My friend, Lee Pool, has killed eight whitetail bucks with eight shots from his .222 Remington. Another friend has killed 7 whitetail bucks and one antelope with 9 shots from his .222 Remington. None of the animals went more than 50 yards, and no bullet blew up on the surface. In fact, most of the bullets went through on the lung shots, leaving an exit hole about 2" in diameter.

I still believe that there are two definite classifications of "brush guns." The big heavy bullets at moderate velocity are tops for snap shooting, and the fast, light, very accurate bullets from super-accurate rifles in skilled hands are for standing shots. There is a definite need for both. One will not take the place of the other.



HIS COLLECTOR GUNS SHOOT

(Continued from page 27)

apertures."

In this same picture, the second gun from the top is a Haenel .22 with a Fecker 12X scope. (Bosworth is shown shooting this rifle at the bottom of page 25.) Of the third rifle from the top (horizontally mounted), Bosworth writes: "This is a most unusual one. It is a J. Hubel free match rifle, made by J. Hubel of Salzburg, Austria. It is .22 caliber, has double set triggers, optical peep sights and a globe front sight with four different sized globes. The trigger guard has a hook for each finger. It has a high comb, a thumb rest, a 30 inch barrel, and a Shuzgur Butt plate. A very accurate rifle of unique design." (This gun also appears in use at the top of page 27.)

Next below the Hubel is a B.S.A. Martini International, fitted with a 2" 10X Unertl scope. This rifle, shown also in Bosworth's hands at the bottom of page 26, is one he has used in many Montana small bore matches. Below the B.S.A. is a "Steigle that was originally 8.15x46 but has been rechambered to a .32-40. This rifle is all engraved on both sides of the receiver, and is inlaid with a duck in silver on top of the barrel. The barrel is fluted, with matted rib on top, with peep sights with four interchangeable front globes. The rifle has double set triggers, a high comb, made by Steigle-Munsing. The side of the barrel is marked Electro Stahl."

The Model 52 Winchester and the Stahl .32-40 follow, to complete the listing of guns mounted horizontally in the rack.

The rifles in a vertical position in the cabinet are, left to right: a .22 Marlin Model 39A; an 8.15x46 Gebruder Rempt, made in Suhl, Germany; a Winchester High-wall action, .219 Donaldson Wasp caliber; a .22 Stevens Walnut Hill target rifle with 8X Lyman scope; and a Winchester Low-wall .218 Bee with 2½X scope.

The pistols shown (same photo) are as indicated in the caption. The percussion lock pistol with the bell muzzle was purchased in Damascus, Syria, for Mr. Bosworth by his son.

Most of the rifles have been purchased through advertisements in the gun magazines, and a few from dealers. Mr. Bosworth says he has some guns not shown in the photo-

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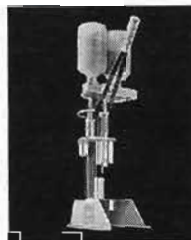
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graphs—"mostly sporting rifles of German make, or obsolete types that are of some interest to people of my age who used them long ago. They bring back memories of the past, and memories become more valued as you grow older."

Should you wish additional information about this unusual collection, William E. Jensen (P.O. Box 707, Billings, Montana), will be happy to try to obtain it for you.

And if you have thought of gun collecting as a hobby for museums and millionaires only, with an end result of a room (or rooms) hung with priceless (you hope!) but quite unshootable "trophies," think this one

over. There are, I'm told (though it's hard for me to believe it), men who have grown a little bored with shooting run-of-the-mill guns at run-of-the-mill targets. If you are one of these lucky ones, try finding and shooting some non run-of-the-mill guns at whatever targets you like. Test these odd ones against your best, most accurate pieces. It's a fascinating hobby, not as expensive as you might think if you don't try to buy 'em all at once—and the results may surprise you. When Bosworth says a rifle is "very accurate," he isn't talking about hitting a barn from inside the building. His rifles will deliver.

GUNS FOR PRAIRIE POODLES
 (Continued from page 37)

sure. However, I would warn anyone who has a rifle in these calibers to back down at least two grains on any of these loads and work up gradually, as varying bore diameters, chamber dimensions, throating, etc., can make a lot of difference.

There are a lot of fine guns on the market that would be fine for this type of shooting. To mention a few that I have had experience with and liked, I will start with the excellent 722 Remington .222. Just as it comes, it is usually very accurate. Another is the heavy barreled Sako .222 Magnum. This fine gun needs no tuning to make it group. I have had good success also with the standard .244 Remington for those long shots in the breeze. I like the 1-12 twist best for the varmint weight bullets, and 47 gr. of 4831 behind the 75 gr. Speer bullet is just about tops. Although I haven't tried it, the Model 70 Varmint rifle in the .243 caliber should be excellent, as it sure has the accuracy. Another one in this same class is the heavy barreled Sako .243 Forrester.

For glass wear for this type of shooting, the fine Bausch and Lomb scopes are tops in my book if you can afford them. The variable 8-and the fixed 8 are both top choices.

I have seen the new 3-9 X Leupold and the 3-9 X Bushnell and both look real good. I'm convinced that you need at least 6X for such small targets. The Bear Cub 6X, The Lyman All-American 6X, and the fine Unertl 6X are excellent. However, I think the 8's are better.

I'm sure the target scopes as made by Unertl and Lyman and Lichert would be fine, but I have never trusted the target-type mounts, and still don't. I think the best solid mount you can get, anchored down and sighted in, are best. Of all the mounts I've used, I like the Stith Dovetail best. However, I have had very good luck with Redfield, Buehler, and Williams mounts.

In the way of loads, one must work up the load that suits his individual rifle. I have had excellent success, accuracy wise, with the 54 gr. Sisk Neidner .224" bullet. For a long time it was the bullet for me, and I still love it; but being sort of experimental-minded, I have tried, and had equally good success with the Hornady, Speer, and Sierra.

Good bullets, carefully weighted charges in sorted cases, and CCI primers, and you have the makings of successful prairie dog hunting. And there's no better hunting for the varmint.

PULL!... By Dick Miller
 (Continued from page 38)

100 straight shaded three hungry 97s by James Null, Joc Bradham, and Clarence Olson, Dorothy Schmitt from Milwaukee gave the men lessons in the 100-target handicap event. Warren Dougherty, Battle Creek, Mich. and Lorne Packham, the Maryland ace, shot it out for runner-up, with the decision going to Dougherty.

Indiana. There were no perfect scores in the Silver Dollar shoot at Fall Creek Valley Gun Club, in Markleville. Slim Mathers from Greenfield won the event, with Jesse Butler, Anderson; Martin Shires, Winchester; and Lloyd Wentz, Elwood, rounding out the first four places. Casey Barrett's 19 won him the Miss and Out purse.

While trapshooters were enjoying good weather in the Florida shoots, Old Man Winter was providing some tough targets in

Ken Ross won high gun and Miss and Out in the next Fall Creek Valley program. K. F. Kiplinger was second, Carson Evans third, and a fourth-place tie deadlocked Ted Rode, Willard Bealor, Casey Barrett, and Slim Mathers.

The Will County Sportsmen's Club Newsletter (Illinois) announces that Frankfort Sportsmen's Club holds trapshoots every Sunday afternoon and Wednesday nights at the club grounds, two miles East of Route 45 on 191st Street, North of Frankfort.

Other shoots are announced by Peotone Sportsmen's Club, one-half mile South of Peotone off Route 54, and Wesley Sportsmen's Club, eight miles South of Wilmington on Route 113N. The 50th Grand Chicago Handicap will be held at Chicago's Lincoln Park Gun Club, June 17 and 18. The Jim Wareham Memorial trapshoot has been scheduled by Lincoln Park for July 23.

Shooting publicity and coverage should be on par with other sports in the Midwest region after Maywood Gun Club hosts a dinner and shooting session for area sports writers, wire service, and radio and TV personnel. The progressive Maywood-GC Board of Directors has authorized the party for the writers, sportscasters, and their wives, to be held in the beautiful Maywood club house. All guests can participate in a 25-bird special trap event for a raft of prizes. Beginners can sharpen their shooting eyes with 10-bird

instructional and warm-up events.

The Scherwood Club, at Schererville, Indiana is formulating plans for a similar event for Northwest Indiana sports writers, radio, and TV sportscasters.

Not only should both clubs improve shooting publicity in the area, but if the scribes and sportscasters run true to form, should pick up some new and enthusiastic shooters for the club. Has your club tried this means for getting better coverage of your shooting events?

ELMER KEITH SAYS

(Continued from page 9)

does not grab and shave like lead will when the case mouth is not expanded sufficiently.

We have found that jacketed bullets wear barrels many times faster than lead alloy bullets; also, most half-jacket bullets still do some leading of the bores due to the point flowing back and upsetting to fill the grooves. For this reason, we still prefer our original .44 bullet design that Speer features in swaged lead alloy or in hand cast bullets. Its point never changes shape from firing with heavy loads until it strikes the game, and we have had better accuracy from it than from the gas check or half-jacket types. These easily loaded Speer bullets are, however, far superior to the factory part-jacket bullet load, and are also more accurate than the soft factory bullets. They are packed 100 to the box.

S&W .22 RFM Kit Gun

We have been testing a new S & W Kit Gun for the now popular .22 Rim Fire Magnum cartridge. This little gun is superbly accurate, seemingly just as accurate as the much larger and heavier K-Model S & W in same caliber. The little gun is amply accurate for a chickens head every time at 15 yards, if you can hold it.

For the hunter wanting the shortest, lightest, practical small game pistol, this little gun should fill the ticket exactly. The ammunition can be carried loose in the pocket without picking up dirt and grit, and even in this short barrel it seems to have ample killing power for most small game. It is very much more effective than the .22 LR hollow-point high speed on all game we have tried. It kills big grouse or jack rabbits nicely, as well as tree or ground squirrels. The little jacketed hollow-point bullet must still be rambling along at around 1400 feet, even from this short pistol.

One can carry this tiny gun and a box of ammo and not know he has it, as far as weight is concerned, and can get himself a mess of small game without too much noise on a big game hunt. I would say this is the finest real small light weight sixgun I have seen, both cartridge and gun.

New Lyman Line

An all-new line of hunting scopes has just been announced by Lyman Gun Sight Corporation, Middlefield, Connecticut. As in the past, the line will carry the trade name "All-American" to denote the fact that the scopes are entirely of American manufacture. Now, however, to mark a design breakthrough that culminates months of intensive study and development, the new scopes will also be called "Perma-Center."

A three-point middle-cell adjustment-sus-

pension system keeps reticule crosswires permanently centered optically, even though elevation and windage adjustment screws are moved to their limits. This is the same sighting principle that earned the Lyman "Target-spot" such distinction. Precision mounting against a Swedish spring-steel balance leaf gives perpetual accuracy, lifetime ruggedness, and dependability.



All Lyman lenses are select achromatic ground, aberration-free. Lyman guarantees all lenses to deliver precise definition, at all ranges. Coated both sides for maximum (86%) light gathering qualities, they are cushioned with DuPont Fairprene gaskets to resist drop-damage and recoil. A special imported sealant, "Losoid," hermetically encloses all internal elements. A one-piece extruded turret houses windage and elevation screws, which are clickstopped for positive fix.

Available in popular magnifications, Lyman "All-American Perma-Center" hunting scopes are offered in 2½X, 3X, 4X, 6X, 8, and 10X.

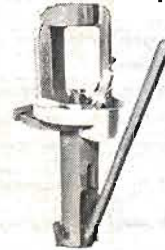
New Cap & Ball Sixgun

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(Continued on page 65)

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| 240 grain | \$5.10 | 270 grain | \$6.00 |

Hollow point or solid nose. Prices per 100. Include postage on three pounds.

HANDLOADED AMMUNITION using the above bullets for hunting or for Law Enforcement Officers. Write for prices and information.

SWAGED ZINC BASE BULLETS, cal. .38 140 grain, Solid nose or hollow point, \$2.00 per 100. Include postage on two pounds.

SHOT REVOLVER LOADS for snakes, birds, small game. Colleges & bird collectors, write.

| | |
|-------------------------------------|----------------|
| Cal. .38 special & magnum | \$3.50 per 50. |
| Cal. .44 special & magnum | \$4.65 per 50. |
| Cal. .45 long Colt | \$5.00 per 50. |

Above loads in your cases.

Mail 25c For Catalog and Special Loading Charts

SHOOTERS SERVICE, Inc., CLINTON CORNERS, NEW YORK

(Continued from page 63)

Civil War Colts and Remingtons, and the ever increasing price of the original guns in good accurate shooting condition, a steady demand for shooting replicas has resulted.

These guns are made in Belgium, and the original parts and shape are exactly copied. The steel is probably far better and stronger than the original Colts. Black powder shooters can now have shooting replicas as good or better than the original Colt guns.


These guns are not made with an idea of faking original Colts. They are plainly marked as to source and date of manufacture, and the rifling is a straight twist and not the gain twist of the old .44 Colts. Likewise, the groove diameter is .451" instead of the .454" diameter of so many Colts (some nearer .460 in the Dragoons). The cylinder, frame, and barrel are marked R for replica, and bear the Belgian proof marks. This company is also going to furnish all three model Dragoon replicas for shooters.

I have now tested two of the 1960 .44 Army models, and find them very good, well made guns. Both shot very accurately. In fact, my old 1860 Colt does not do as well. With 30 grains of FFFG black and a greased felt-hat wad made by soaking an old hat in melted tallow then cutting the wads, these guns shot very well and clean for four cylinders full of loads.

Many shooters of the old guns prefer to smear cup grease or other grease in the front of the cylinder, over the seated round ball; but I have never found any method as good or as accurate as the tallow soaked felt hat wad between the powder and ball. I also blow my breath through a cap and ball gun several times after the cylinder is all fired before reloading to moisten the powder residue. I had one .36 Navy Colt that repeatedly made one ragged hole less than an inch in diameter at 20 yards from seated, back-rest, two-hand position, gun held between the knees.

Some of these guns I examined at the N.S.G.A. Show at Chicago did not have their front sight and the hammer notch lined up properly, but the two I tested did line up and shot very well. These modern 1960 Army replicas sell for \$89.95. They are not cheap guns; many of the fine modern target revolvers can be bought for less. Cap-and-ball colts were my first sixguns and I spent several years using them before I acquired a good cartridge gun, so am not ever likely to go back to them for serious shooting; but there is no reason now why the movie industry cannot use arms that at least look exactly like the original revolvers, in their Civil War and Indian fighting pictures.

Sample tested is cut for shoulder stock, and this company furnishes shoulder stocks to fit in both 1960 Army and also in the third model Dragoon copy. I believe the other two models of Dragoon and the 1960 Army should have been fitted with the 3rd Dragoon rear sight, at least for shooters, as it is far better than just a tiny nick in the hammer which may or may not line up with



Miniature Firearms
Perfect working models of Historic Guns—Colts, Remingtons, Kentucky rifles, flasks, etc.—send for photo folder \$1.
FRED THACKER 444a Cortez El Paso, Tex.



ATTENTION!

Your classified ad in GUNS Magazine gets the attention of over 150,000 hunters . . . shooters . . . and collectors. You get big sales results for as low as \$2.00 per ad.

The best measure of a magazine's selling power is its consistent use by the advertiser. The Gun Market classified section of GUNS is used by advertisers month after month after month because it pays off in sales! For dramatic proof, look over this partial list of current advertisers using GUNS over three years:

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| Al's Gunroom | Jay Co. | Tandy Leather Co. |
| Norm Flayderman | Ladd | Tele-Optics |
| Freedland Arms | E. C. Prudhomme | and many others |

These advertisers are using GUNS for just one reason—they want orders . . . and they get 'em in GUNS. Plan now to test your ad in the next big issue. See how GUNS can get more sales for you—and at lowest cost!

Rates: 20c per word per insertion, including name and address. Figure 7½ words to the line. Minimum 10 words. Closing deadline: Copy in written form in Skokie Office no later than 16th of the month preceding on sale date. (Note: cover date on each issue is one month ahead of on sale date; e.g., March issue is on sale February 1st; therefore closing date for ad is December 16.)

USE THIS SPACE TO PRINT OR TYPE YOUR CLASSIFIED AD

CLASSIFICATION I am enclosing \$.....

My Name

Street

City Zone State

CLIP AND MAIL THIS FORM TO: GUNS Magazine, G-6
The Gun Market, 8150 N. Central Park Ave., Skokie, Illinois

barrel and front sight.

We look forward to testing the shoulder stocked No. 3 Dragoon, as it should make a very good shooting gun also. The new Dragoon Replicas will sell at \$129.95 and, with shoulder stock in this third model, for \$174.50. Powder Flasks go at \$20, and the moulds at ten bucks each, so they are not cheap in any sense of the word. This company also furnishes the old Colt "store-keepers model" .45 Single Action Army without extractor rod or housing, priced (and I think overpriced) at \$139.50 with 3" barrel.

New Norma .44 Magnum

Some time ago, we had some correspondence with Nils Kvale, of Norma-Precision, on a new .44 Magnum cartridge they were bringing out with non-corrosive primers and smokeless primers to give 1470 feet velocity with around 30,000 pounds pressure from a Ruger Blackhawk revolver. This new Norma load uses a 240 grain, mild steel full jacket, soft point bullet with nickel covering the steel jacket. Samples sent me of the bullet looked very good. They miked .431"—a bit large, we would say, for revolvers with .429" grooves, but just right for those of .431" or larger. The 1470 feet velocity figures were obtained from a 6½" barrel, which indicates it is a very good conservative load.

The news release on the new Norma load indicates it is the first such on the market, but we happen to have already tested some Remington full jacketed soft point ammunition in Bill Ruger's .44 Magnum carbine, and this is already catalogued by Remington. The Remington stuff shot beautifully in the new Ruger Carbine, and we would expect this new Norma load to be very fine ammunition as well.

The new Norma .44 Magnum ammunition is available through E. H. Sheldon, Norma-Precision, South Lansing, N. Y. We do not know cost per box, and will report further on this and on the Remington soft point jacketed .44 Magnum loads after we receive and test lots of both in revolvers.

Lightweight Police Gun

The smallest cartridge I would recommend for the police officer for a holster weapon is the .357 S & W Magnum. The lightest gun for this cartridge is the Smith & Wesson Combat Magnum. It comes with big target grips that are about right for men with large hands, but for those with small hands or those who want less weight and bulk in their revolver grips, the little Combat Magnum S & W can be fitted with the plain-clothes grips. This gives the officer an effective gun with light weight, 4" barrel and good adjustable target sights.

My personal preference for the peace officers holster gun is the 4" Smith & Wesson .44 Magnum. Many police departments will not allow anything but a .38 Special to be carried, and this is a sad mistake. The .38 Special in about all factory loadings has failed to stop criminals in a multitude of cases. An officer may seldom need his gun, but when he does it may well be a life and death case for him, and I for one believe he should be armed with the best and most powerful gun he can get.

Bullet Lubricant

We have also tested an excellent sixgun bullet lubricant made and sold by J. M. Diebold, 11433 Patridge St., Coon Rapids, Minn. It is furnished in either solid or hollow sticks to fit about all lubricators. It does

an excellent job of lubrication and cuts leading to the minimum. It seems to be just about the right viscosity, as it does not peel or crack and does not seem to be affected by either extreme of temperature. It's a darn good bullet lub. I do not know its content but it sells for \$5.00 per dozen sticks.

G-66 Gun Treatment

We are now testing a new combination solvent and lubricant for all firearms. So far, it has proven all to the good. It comes in a big spray can and can be sprayed into the most inaccessible places on a gun action. It is not a petroleum product and cannot form any gum from drying out or freezing. It is fully guaranteed under any and all field conditions and from temperatures 100 below to 350 degrees above zero. It leaves a very thin film on all metal surfaces that seems to impregnate the steel.

My old Brown & Sharpe mike had a habit of gumming up from oils I have used on it. One application of this new G-66 put it in perfect condition and it has remained that way.

My tests are not complete, but we will take it to Alaska next month and also use on a late hunt for elk here, which should tell the tale. So far, all my gun cleaning with it has shown amazing results.

This solvent and lubricant prevents rust, lubricates without any gummy film, was developed for missile and air craft use. It seems impervious to water. It is put out in generous spray cans by the Jet-Aer-Corp., Paterson, N. J., and sells for \$1.39 per can. For long term storage of guns they recommend three spray applications. This outfit also produces water-proof spray for clothing, hats, and gunstocks.

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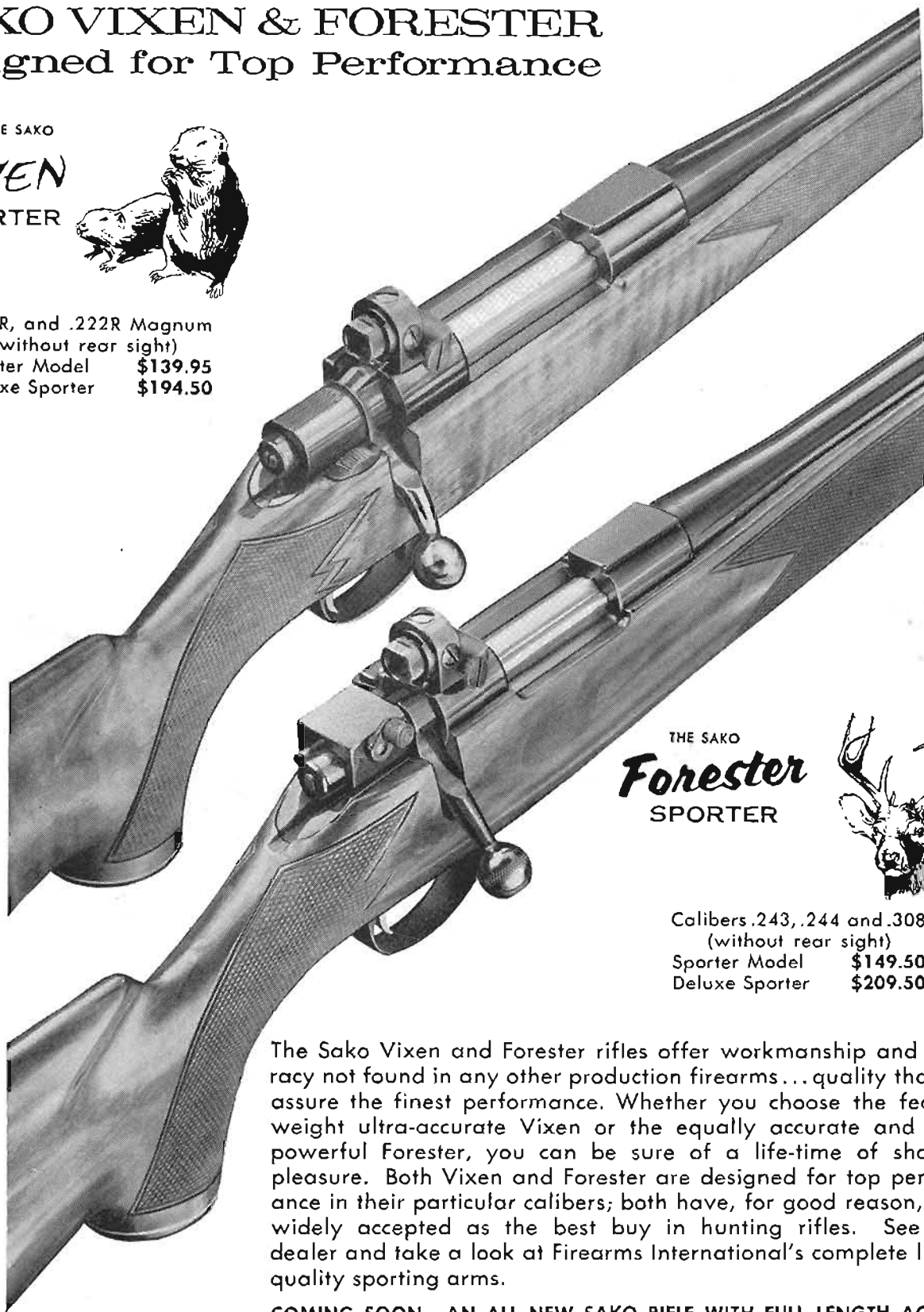
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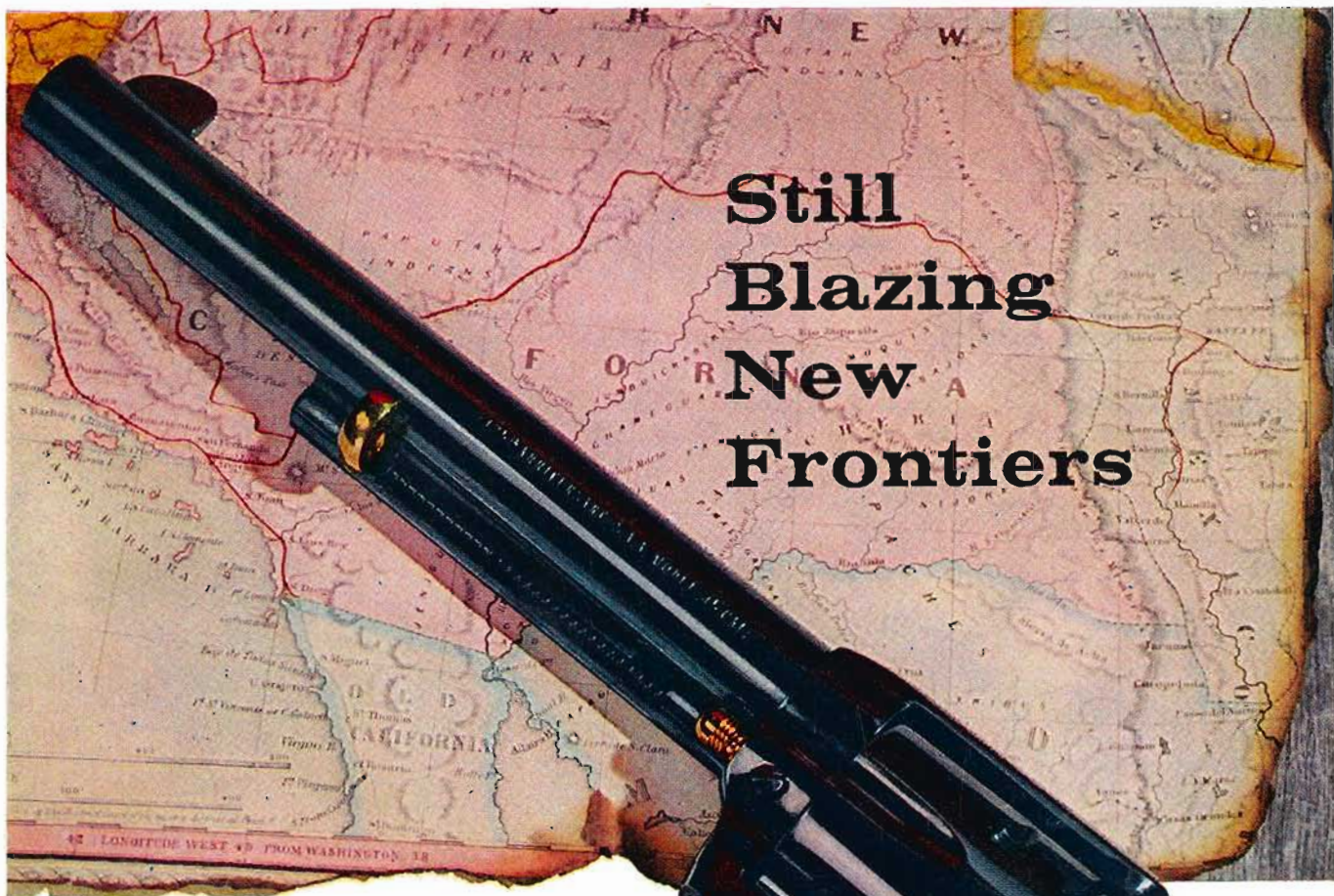
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No gun better typifies the Old West than the gun that opened up its frontiers . . . the Colt Single Action Army. And no gun better typifies Colt quality. In 90 years it has had no significant change. It is appropriate, therefore, that a Single Action Army be designated Colt's 125th Anniversary Model.

A limited production model, with special serial numbers, in royal blue with gold trim; 7½" barrel, .45 cal. in presentation case with anniversary medallion. \$150.00. See it at your Colt Registered Dealer or write . . .



Colt's Patent Fire Arms Mfg. Co., Inc.
Hartford 15, Connecticut



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