

OCTOBER 1960 50c

HUNTING • SHOOTING • ADVENTURE

Guns



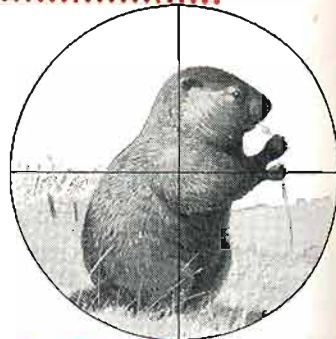
**MR. K's
BABES AT ARMS**

**SAFE LOADS FOR
FAST GUNS**

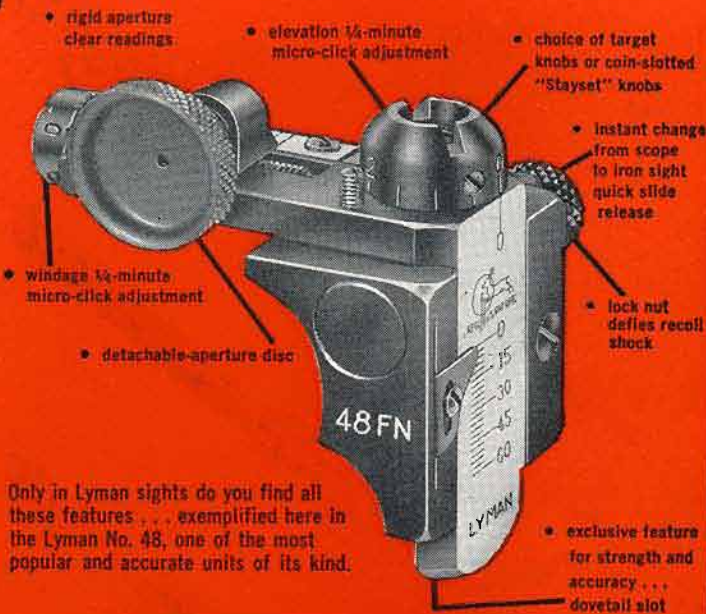
HOW TO LICK MAGNUM FLINCH

your rifle can hit any target

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No. 48 SIGHTS are world famous for accuracy — and are built to last a lifetime. Like all other Lyman sights, the superb No. 48 receiver sights are guaranteed for lifetime accuracy. Also available with long-style elevation slide for use on long range, high-powered match rifles, and offer all the other quality features you can wish for — yet at only \$12.50 each one of these sights costs so little compared to the price of any rifle!

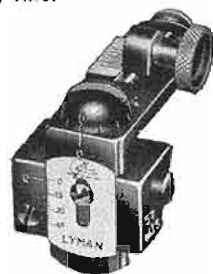


Only in Lyman sights do you find all these features... exemplified here in the Lyman No. 48, one of the most popular and accurate units of its kind.

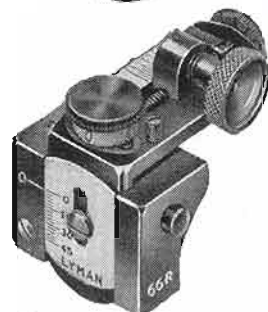
Ordinary open sights, or sights lacking precise, positive and easy adjustments, put severe limitations on the accuracy of your shooting. But Lyman sights enable you to shoot right up to the limits of your skill and the full potential of your rifle and ammunition.

What's more, Lyman sights stay on zero, are as rugged as they are precise. And there is a standard Lyman receiver sight matched to nearly every rifle, just right for any shooter — or any kind of shooting. Many popular brands of rifles feature Lyman receiver sights as standard factory equipment — and many others are already tapped and drilled to receive them. Lyman micrometer receiver sights are the fastest and easiest to use of all metallic sights. Disc aperture makes sighting easier by increasing the depth of focus and sharpening the target image.

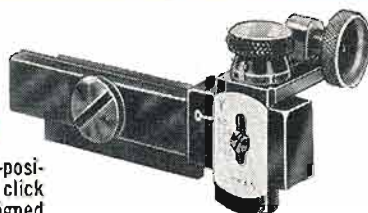
No. 57 SIGHTS — fine precision receiver sights with many of the features of more costly Lyman sights at a price well within the reach of shooters and sportsmen... modern, compact design, and unfailing accuracy. They share many features of the famous Lyman 48 series: 1/4-minute micrometer-click adjustment, quick-release slide, choice of large knurled target knobs or coin-slotted "Staysel" hunting knobs. Among moderately-priced receiver sights, Lyman No. 57 sights are far and away your best buy at only \$8.50.



No. 66 SIGHTS have many features identical with the No. 57 series, but are especially designed to fit lever, slide-action and autoloading rifles having flat-side receivers. Located on the rear of the receiver, the aperture is conveniently close to the eye for "snap shooting" and provides a long distance between front and rear sights. Priced at \$8.50.



NEW low-cost Lyman receiver sight designed for popular small-bore rifles



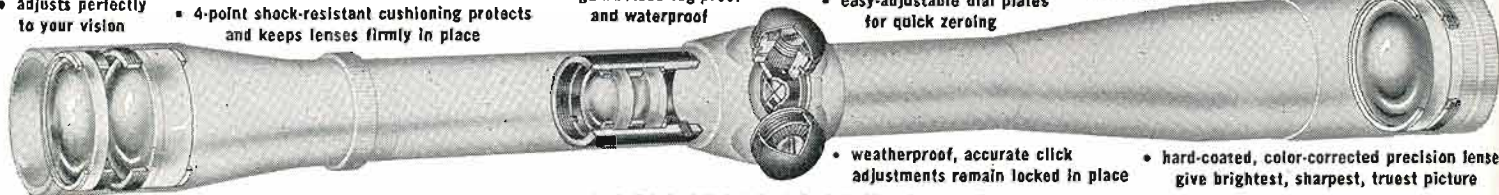
NO. 60

Here's a micrometer sight with positive-position windage and elevation 1/4-minute click adjustments — and it's especially designed for all these popular small-bore rifles:

- Winchester Models 75, 47, 55 Single Shot, 67, 69, 72
- Remington Models 513, 33, 34, 41, 510, 511, 512, 514, 521
- Marlin 102

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Senator Harrison A. Williams, Jr.
Comm.: Banking & Currency
New Jersey

IN DISCUSSING the second amendment to the Constitution (one) must bear in mind the words "well-regulated." Clearly, if the right to bear arms causes a disproportionate occurrence of accidents or willful misuse of these weapons, some action must be taken to prevent this and protect innocent victims. I have noted that during 1958 there were 2400 deaths from shooting accidents and that an alarming percent of these were adolescent boys in the 15 to 19 age group. It would seem to me that two courses of action would be worth exploring. First, I would think that some clear system of registration might be advisable, not only to aid apprehension of misusers and discourage frivolous purchasing, but to regulate without undue restriction. I realize this would not prevent those persons bent on criminal action from getting a weapon, but I believe it could be a help in controlling juvenile delinquency. Second, I think there is a clear need to expand a program of education in the safe use of firearms.

Senator John Sparkman
Select Committee on Small Business
Alabama

WE ALL REALIZE . . . that the public must be protected from danger to life and property by those who would abuse the right to purchase and own firearms. . . It seems to me that the amendment and protection for the public need not be incompatible.

Congressman James Roosevelt
Comm.: Education & Labor; Small Business
26th (L.A.) Dist., California

I HAVE GIVEN the significance of the Second Amendment much thought, and will continue to do so. Frankly, however, I do not feel, as yet, sufficiently clear in my own mind as to what the position should be. I could not, therefore, make a public statement. Your views will be very helpful to me as I consider the matter.

Congressman George McGovern
Comm.: Agriculture
1st Dist., South Dakota

THE SECOND Amendment guaranteeing "the right of the people to keep and bear arms" is an essential part of the American tradition. It has stood us well in both peace and war. I think it would be a serious mistake for the Congress to pass legislation that would in any way jeopardize this time-honored and time-tested freedom of the American people.

Congressman H. Allen Smith
Comm.: Judiciary; Vets Affairs; Small Business
20th (L.A. Cty) Dist., California

I DO NOT have any brilliant statement to send to you regarding the Second Amendment. I have always supported it, have been a great friend of the sportsman, and think most of the proposed legislation regarding the registering of guns and such would be of little if any value. I have been a hunter since early childhood and have had some seven years' experience with the F.B.I.

Congressman William M. McCulloch
Comm.: Judiciary; Small Business; Immigration & Nationality Policy
4th Dist., Ohio

SUBJECT ONLY to proper regulations necessary for public and private safety, I am of the opinion that the Second Amendment to the Constitution should remain fully effective at all times. I have been the owner of one or more guns since I was a boy 10 years old, and I expect to continue to be the owner and possessor of one or more guns, so long as I live, without any improper hindrance by government.

Senator Jennings Randolph
Comm.: Small Business
West Virginia

THE SECOND Amendment is a restriction on Congressional action and does not affect state action. The Supreme Court has held that the only right of the individual to keep and bear arms granted by this Amendment must be in connection with the preservation or efficiency of a well-regulated militia. The possession of weapons of one who is not in or required to be in the militia and is not required to own arms to use in such service is, therefore, not Constitutionally protected.

Readers Note: All Congressmen may be addressed as "House Office Building," and all Senators as "Senate Office Building," both at "Washington 25, D. C."

Guns

FINEST IN THE FIREARMS FIELD

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THE COVER

Evening, dusk, the end of a day not perfect because there before you, as you slosh over the marsh, is the one lone drake you were able to coax in close enough for a fair shot. Yet one swallow does not make a summer, nor one duck a poor hunt; instead, there is the memory through the long winter of the bracing air of the salt marsh, the kinship with the wind and the sky, the enjoyment of sheer living that comes to you, hunting. And for the confidence to down more than one duck, let's look at the magnum 20s, page 34.

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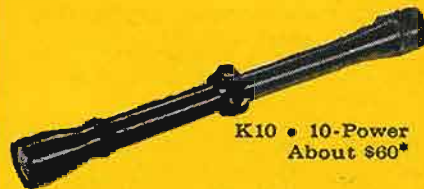
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SHOOTER'S BIBLE J. Olson, Editor
(Stoeger Arms Corp., 45-18 Court Square,
Long Island City, N. Y. \$2.50)

It's out again: the 1961 No. 52 edition of Stoeger's "Bible," bigger than ever, and still the indispensable-to-the-shooter textbook-catalog of guns and shooting equipment. Articles by gun writers add reading interest, but many shooters value this book most as a guide to what they can buy, for how much. It's a lot for the money.—EBM

HANDGUNNER'S GUIDE By Chic Gaylord
(Hastings House, 151 East 50th St., New York
22, N. Y. \$7.50)

Well written, in a clear concise style that is refreshing, its 23 chapters deal largely with police work and the best holsters for same, but include also handgun hunting, loads, and guns; also much on combat quick draw, and a chapter on the old gunfighters of the West. While I personally don't agree with all his choices of weapons or loads, we do see eye to eye on a great many phases of sixgun work. The book is well and profusely illustrated, showing not only the guns but more hide-away holsters that the average man ever dreamed of, with step-by-step photos illustrating their use. Chapters on close-combat shooting, alley-clearing, and mid-range combat are alone worth the price of the book.—EK

SMALL ARMS OF THE WORLD
By W. H. B. Smith
(Stackpole, Harrisburg, Penna. \$15.00)

Still one of the most imposing, and certainly the best-selling, of all gun books, this new edition has been completely edited and revised by Joseph E. Smith (no relation), smallarms expert in the Office Chief of Ordnance, U. S. Army. Here are 724 pages (including prefaces and index), 8½x11", profusely illustrated with more than 1700 photographs and drawings covering the firearms of all nations, including many guns and much data not included in the earlier editions. As the story in September *Guns* on Walter Smith, "man of mystery," said, it is the book which, of all his titles, contributed most to his fame. No arms library is complete without it, and no student of guns can afford to miss the wealth of interest and information contained in its pages.—EBM

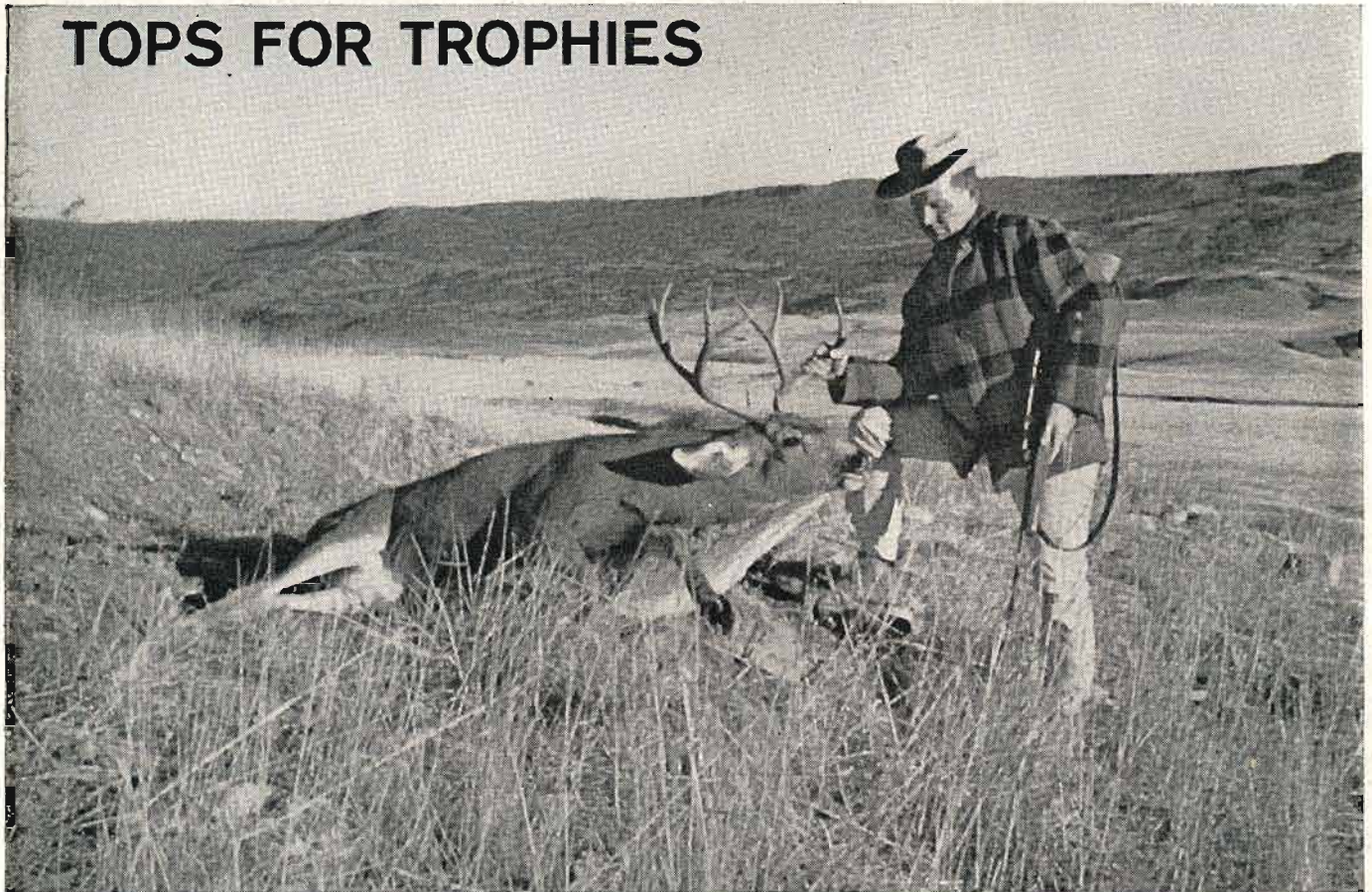
BUTCHER'S CROSSING By John Williams
(The Macmillan Co., New York, 1960. \$3.95)

If you have any romantic illusions about buffalo hunting, this starkly unromantic novel should dispel them. Whether that makes the book worth while or not is a question you'll have to decide for yourself. As for me, I doubt it.—EBM

GUNS & SHOOTING By Lucian Cary
(Arco Publishing Co., 480 Lexington Ave.,
New York 17, N. Y. \$2.50)

A re-issue of a collection of articles, ranging from "how to" to tales of barrel makers, buffalo hunting, and shooting champions. If you like Cary's articles in "True," you'll like them here.—EBM

NEW POWER-POINT OR SILVERTIP... TOPS FOR TROPHIES



Chamber a Silvertip or new Power-Point and you're exactly one trigger squeeze away from flattening any rack you lay your sights on. Every round is ballistically engineered to be the finest game getter your gun can handle. Take along a box of Western or Winchester center fire cartridges when you start out — and head for the Checking Station when you drag *him* out.

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Full mushroom, maximum power, in vitals

POWER-POINT



New jacket controls Soft Point expansion



100 yds.—Double diameter expansion



300 yds.—No collapse, big caliber diameter



500 yds.—still good even expansion

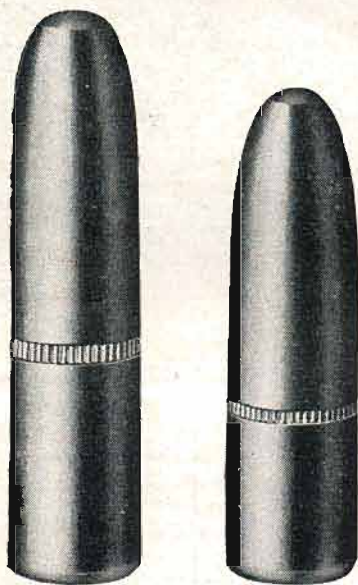


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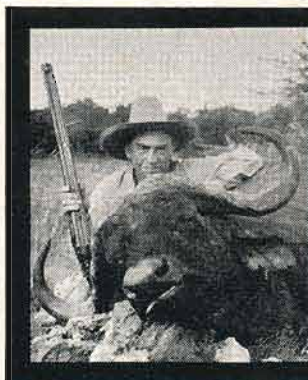
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 says . . .

Care of African Trophies

If you or any of your friends are planning an African hunt, tell them that the firm of Rowland Ward, who have a show room and receiving house at Sadler House, Nairobi, now plan another show room in the New Stanley Hotel in Nairobi, where most Americans put up when going or coming from safari. Americans will do best to have Rowland Ward dip and ship their specimens direct to their taxidermist. I turned my trophies over to Major Raw and Rowland Ward for this treatment, and they arrived stateside in the best of condition. I also found the New Stanley Hotel one of the best, and close to the offices of White Hunters (Africa) Ltd., with whom I hunted.

.22 WRF Magnum on Eagles, Lion

Last week, Jack Nancolas, our local Government hunter, was hunting cougar with his dogs and noticed a concentration of eagles on Iron Creek. Thinking they had found an old deer kill, he investigated, but found no kill there. He shot three of the eagles with my Mossberg Chuckster with scope, using Winchester .22 Rim Fire Magnum ammo. All three eagles were killed cleanly with one shot each—a very good performance, as we have lost plenty of them bit with 30-06.

After removing wings and tail and claws for the Indians, Jack decided to find out what they were feeding on. He found seven chukar partridge heads in the three eagles.

We used to have a bounty on golden eagles, but some sob-sisters put pressure on the Game Dept. until it was removed, and now they prey on our game birds, mountain sheep lambs, and mountain goat kids for a great part of their sustenance.

Jack next jumped a lion in another gulch, and his dogs treed him. One shot from my K-22 S & K .22 Rim Fire Magnum struck the cougar in the face and penetrated the skull, killing instantly. The tiny bullet, well expanded, lodged under the skin on top of the shoulders. Again, excellent penetration for so tiny a cartridge. It was a full grown lion.

Marble Short Rib For Remingtons

Marble now offers a short rib to take the place of standard sights on Remington Models 721, 722, 725, 740, and 760. The new Marble screw-on base replaces the screw-on base on all these Remington rifles, and will allow the use of any of the Marble sights in the standard dovetail slot incorporated in this new base. For scope sighted rifles, we particularly like this new Marble base with their folding flat-top rear sight.

Priced at \$3.25; address Marble Arms Corp., Gladstone, Mich.

Site-A-Line Collimator

We have been testing a new and comparatively low priced Site-A-Line Collimator put out by the Alley Supply Co. This company has had a constant demand for such a collimator since bringing out the Sweany Collimator some four years ago.

The new collimator does a good job of aligning either iron sights or scope, and is a great help to all rifle cranks and gunsmiths who do not have range facilities. They can at least put the rifle "on the paper" with the collimator.

The last three inches at the muzzle of a rifle barrel is said to control the direction of the bullet's flight. The collimator has spuds that fit the bore of the rifle for the last three inches, precision ground and polished to exact fit and to eliminate any chance of marring the bore. They are held in perfect alignment with the cross hairs in the collimator, and when iron or scope sight is brought together with the collimator, you know you are at least on the paper.

The body of the new collimator is a high quality aluminum alloy injection casting, of zero stress and absolute rigidity. Together with the hardened tool steel spuds, the collimator is packed in a handy roll that weighs but one and a half pounds and takes up very little space in shop or car. Priced at \$37.50 with one spud; additional spuds in about all calibers available at \$3.50 each.

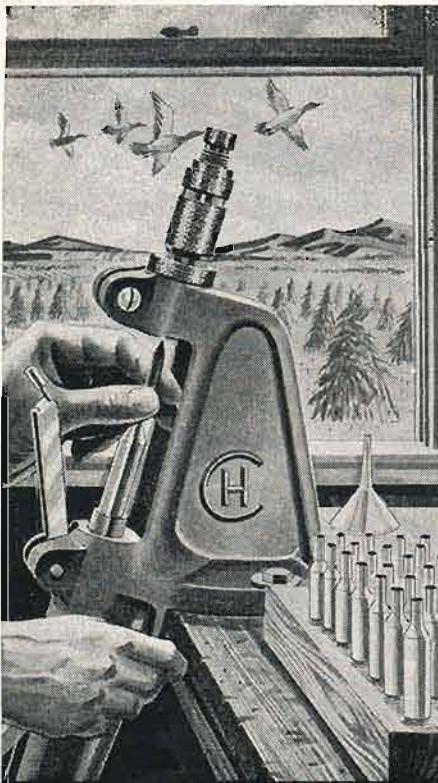
We used the outfit to line the scope on a new .358 Magnum Husqvarna Mauser, and the iron sights on a Swedish military carbine. Both printed on the paper first shot. This new and popularly priced outfit should prove popular with all gunsmiths and will save a lot of dollars normally spent for ammunition.

300 grain load for .338 Magnum

Winchester sent me some experimental 300 grain copper tip round nose expanding bullets for their .338 Winchester Magnum. We worked out a load of 69 grains 4831 with this very long heavy bullet. Extraction was free and easy even at 70 grains.

The bullet had to be seated down so deep that its base was nearly one-fourth inch below the case shoulder, but this seemed to make no difference in performance with slow 4831 powder. Accuracy was excellent, seeming around one inch at 100 yards. 70 grains of 4831 fills the resized case just to the base of the neck even when dumped in from the scale pan, so this .338 Winchester Magnum

(Continued on page 70)



hunting time is
loading time...and there's
nothing finer than

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You need not be on an African Safari or be a member of the Olympic Team to appreciate that handloading makes the BIG difference between success and failure. Whether varmint shooting, hunting deer, pheasant or Kodiak Bear — smart hunters RELOAD and recommend C-H Reloading Equipment. Only C-H makes a COMPLETE LINE of equipment for reloading rifle, pistol or shotgun shells.

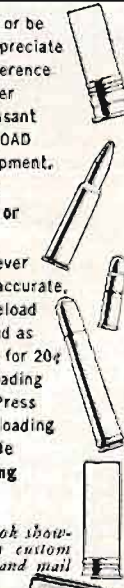
With C-H it is easier to reload than ever before. C-H reloaded ammo is more accurate, and it is so INEXPENSIVE. You can reload 30-06 brass for as little as 3¢ a round as compared to factory ammo retailing for 20¢ or a saving of 17¢ or more. C-H Reloading Equipment is easy to own. C-H "C" Press is only \$12.00 while chrome-plated loading dies are only \$13.50 and are available in over 500 calibers. See your sporting goods dealer or gunsmith today!

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HANDLOADING BENCH

By KENT BELLAH

Primers and Priming

AMMO QUALITY DEPENDS so much on primers and priming that it makes the difference between near one-hole groups and anything from erratic ignition to hangfires or misfires. Fast, perfect ignition results only with perfect priming and primers. Priming is the one operation apt to be done better by a factory than by handloaders. Pressing primers in a pocket is simple. Doing it exactly right is an art.

All U.S. primers are non-corrosive and non-mercuric, N/C, N/M. The primer numbers have been the same for years, but the product changes from time to time. Over the years it has meant progress, with hotter compounds that have less violence.

The primer's only job is to produce white-hot heat fast. If it creates excessive gas, breech pressure increases without much velocity increase, if any. If the temperature is low, or the explosion slow, we get slow or erratic ignition. If detonation is too fast, the entire charge may not ignite fully and perfectly. Truly, there is no component more complicated in a cartridge. So much depends on so little!

Mixing a good formula is complicated. The type and amount of each ingredient, and the amount of compound is critical. The cup thickness, hardness, and dimensions are critical. The vital anvil thickness, hardness, dimensions and seating are critical. How the things sell for less than 1¢ beats me.

It wasn't always that way. The messy black powder mix of 1-2-7 sulphur, charcoal, and saltpeter was easily ignited. A spark from a cat's whisker would insure a flash and a cloud of smoke. Smokeless powder got off to a slow start with shooters, because it got off to a slow start in the bore with a feeble spark from the old caps. Mercury fulminate made brass brittle and weak. Corrosive salts like potassium chlorate, used to provide oxygen, soon ruined fine barrels. Early N/C, N/M primers were not so hot. They had

much violence and little heat. Shelf life was short, and "duds" were not uncommon. Quality had to improve, and it did.

There is no good reason why we should use round face primers. They are a major cause of "long" primers in handloads. They cushion the firing pin blow, causing erratic ignition or misfires. They prevent the rotation of a revolver cylinder. In rifles, you can get an accidental discharge when a bolt slams against a chambered round. Shooters may be in trouble with an unlocked bolt, to say nothing about who or what is in the path of an unaimed bullet. Primer punches are seldom a perfect fit, because face contours vary. I can do without round face primers nicely.

Writers who get real technical say, "Seat primers with 70 pounds pressure." How can you? Or why should you?

Primers are slightly larger than normal pockets. Counting the anvil, they are longer. Pistol types seat easier. Some tools have more mechanical advantage, as do operators. Average seating pressure may vary several hundred pounds. A little extra beef on a tool handle adds a whale of a lot more pressure pronto. "Seventy pounds pressure" won't seat some primers. Others seat with less.

The same and different makes of primers vary in every imaginable respect. Some are thicker, larger, harder, or longer. Some use a brittle compound that crushes easily. Crushed compound doesn't all detonate, as proved by firing uncharged cases. (Heat from burning powder gas under high pressure will "cook-off" unfired compound, resulting in slow, weak ignition. It happens so fast you can't detect it except in larger groups. Many handloads have crushed primers.) It would require a large book to fully cover primers and priming, and some material would be obsolete before it got printed.

Primer pockets and vents vary in different makes and different lots of cases. That's why I specify a particular make of case for some

(Continued on page 15)



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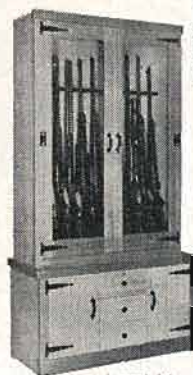
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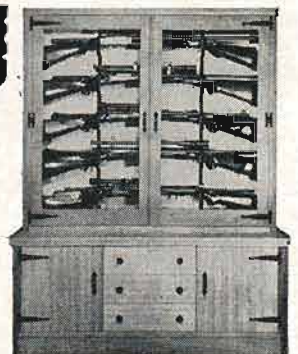
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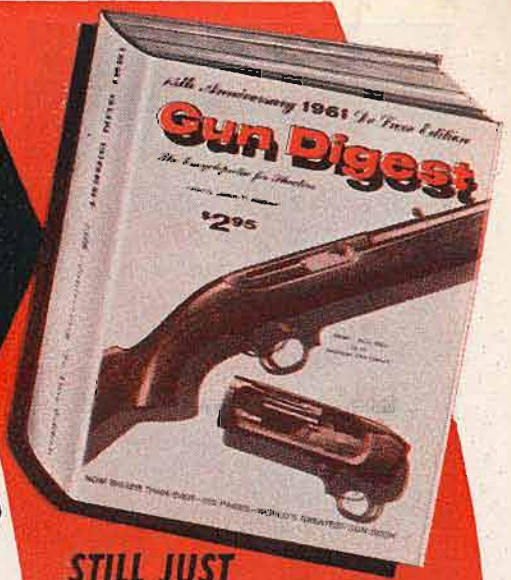
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CROSSFIRE

They Shouldn't Have To Do It

Want to say how much I enjoy "Guns" and "Guns Quarterly." I think they are the finest in the field.

In the article "Newspaper Backs Cops In War On Crime" (July, 1960) there was mention of a policeman paying for a Colt .357 Magnum. I have sold four .357 revolvers to three local policemen and one deputy sheriff, and with our police base pay less than \$300 a month, I think officers sincere enough to spend their own money for equipment to do their job should be congratulated.

George E. Thomas
Yazoo City, Mississippi

Likes Redwing

I enjoyed the article "TV's Big Man—Fast Rifle" (May, 1960) by Rodd Redwing and hope to see more by him. I am also a worshipper of Elmer Keith and wish to extend my thanks to him for the many fine weapons he has helped give to us, the sportsmen. Many thanks also to you for a fine magazine. May it live forever in the sportsman's library.

Jack Keeton
Tucson, Arizona

Defending Keith

I am tired of reading comments derogatory to Elmer Keith in the "Crossfire" department. I suspect they are written by people who read of some of his feats, then ran out and tried them themselves, found they could not duplicate his shooting ability, and so decided he was a liar.

In answer to Mr. Pill Hartley, I have used Elmer's method of combat quick draw for 6 years and have fired 10,000 rounds of .22 L.R. ammo and about 1500 rounds of .44 Magnum ammo by that method and have not exterminated or even winged myself yet and do not intend to. I have also proven to my own satisfaction that Elmer's long range shooting exploits are not malarkey. My grandfather, Frederick Stanger, told me that long range six-gun shooting was old hat already when Elmer was a toddler, so I don't see why it is so hard for modern shooters to digest.

John Gustav Tietz
Las Cruces, New Mexico

Liked "The Rifleman"

I recently subscribed to your magazine and have enjoyed it immensely. I especially enjoyed reading the story on Chuck Connors which appeared in the May issue. If possible I would like to see more stories of this type.

I am most anxious to read a story on the gun used by Don Durant of the television series, "Johnny Ringo." Any stories on fast draw are greatly appreciated and enjoyed.

Marshall G. Snapp
Alexandria, Va.

Militia versus National Guard

Many of the Congressmen who have replied to your letters seem under the impression that the "militia" referred to in the Constitution is today's National Guard. It is my contention that they are using a limited definition in attempting to justify restrictive legislation on such grounds. At the time of the Revolution, the militia consisted of all able-bodied males who were all subject to call in case of emergency.

The next time some lawmaker uses that argument I suggest you refer them to Webster's New International Dictionary, Unabridged, 1957, which reads as follows:

"In the United States, by Act of Congress (32 Stat. 755 1903) all able-bodied male citizens and all males of foreign birth who have declared an intention to become citizens, between the ages of 18 and 45, subject to a few exemptions. It is divided into two classes, the bodies of *organized militia* of the individual states, territories and the District of Columbia, and the *reserve militia*. The organized militia is now called the National Guard."

It seems to me that this answers those gentlemen quite effectively.

J. M. Reynolds
New York, N. Y.

Gangsters Love It

I am very pleased to have become acquainted with your most interesting magazine, through my purchase of the July issue, which I find enlightening and helpful.

The article "The People vs. the Sullivan Law" is most encouraging to those of us who, over the years, have been obliged to watch the effect of a law that has disarmed the honest citizen, making him the logical prey of those who have no respect for the law.

Some organization of outraged, law abiding citizens will, I trust, succeed in reestablishing the constitutional right to bear arms for the protection of one's family and property.

One result of my many letters to the press on this subject has been the receipt of a few notes from retired gangsters agreeing that the Sullivan Law has been a boon to the cowardly thug.

Edward F. Chandler
Brooklyn, N.Y.

More Time Now?

I have read your books for some time now and have enjoyed every article in them. But this month's issue there is something that I cannot understand. On page 4, Senator Stuart Symington replied through his Administrative Assistant that he had a very

heavy out-of-town speaking schedule on week ends and this, in addition to his regular work of the Senate, just does not allow him enough time to comply with your request.

As I recall it, for the last several months four or five Senators and Congressmen per issue have had time to answer this request. It seems a shame that one man in Washington has to do all the work while the others just sit around and answer silly requests like commenting on the Second Amendment of the Constitution.

Francis R. Poling, Sr.
Union Beach, New Jersey

Shotgun Man

I have recently been buying your magazines and, while never much of a rifleman, did enjoy several stories.

In the March issue, you ran a story by William Schumaker that I enjoyed very much. I am more of a shotgun man and have been shooting a shotgun for the past 24 years. I gained some very good information from the article. Hope you will publish more stories along this line in the future.

Robert L. Nestos
Portland, Oregon

States Rights?

The furor over how to translate the 2nd Amendment into modern English gets me to thinking. It has been decided that said amendment in modern usage only means that the Federal Government cannot prohibit the right to keep and bear arms, and that it is a collective right which can be worked over by the states. This is a good entering wedge for private dictatorships within states.

If a state finds a way to interpret all of the Bill of Rights as the 2nd has been decided, wouldn't it be possible to vote all the rights of the individual, or of the citizens collectively, out the window? If the Bill of Rights only limits the Federal Government, what would stop some ambitious boss from busting up the constitutional system for his own advancement?

John P. Conlon
Newark, Ohio

Show Guns For Goodwill

At our September meeting (Antique Arms Collectors Assn. of Connecticut), notice was taken of Press publications recently of the "Gallup Poll" articles which indicated a sharply negative attitude to firearms of all descriptions. Naturally, we were opposed to these views; but we feel that this public opinion of firearms could be tempered and changed by proper understanding. Toward this end, our Association has attempted, with considerable localized success, to engage the interest of the public in firearms by aligning with Historical Societies in exhibiting our specimens through their facilities and cooperation.

Instance: November 16, 1958 at the building of the Cheshire Historical Society, Cheshire, Connecticut, over 180 signed the register although considerably more attended. Again, at the building of the Old Lyme Historical Society of Old Lyme, Connecticut, on June 21, 1959, we exhibited various specimens to over 350 interested people. We plan to do the same in other localities.

Aside from our natural pride in such a

display, we feel that in showing the public that guns are not always used for killing, we establish a valuable relationship with non-gun owners which gives them a tolerance to firearms they never entertained, and this not only reacts to our benefit, but to the benefit of all gun lovers.

In presenting this approach to you, we thought you might pass the idea along through your media to encourage other groups to do as we have done, to make an attractive display of guns to the public.

C. W. Mason
Bristol, Conn.

Fast Draw Clubs

I have enjoyed your variety of articles on that very controversial subject, the fast draw. In recent issues, I have read the opinions and have benefited by the advice of a National Champion, a U.S. Border Patrol Officer, and a former Texas law officer. Please keep these fine articles coming.

I would greatly appreciate any information you could send me regarding organized fast draw clubs. I am interested in obtaining the names and addresses of these clubs operating in my own state. Also the names of persons who could give me advice on starting a club and names of dealers who handle the equipment needed. Perhaps your contributing writers could help me. I would like to correspond with others interested.

James N. Kenyon
Bristol, Conn.

Write John Powers, Jr., Executive Director, American Association Fast Draw Clubs, 412 Albee Bldg., Washington 5, D. C.

(one of a series of reports to shooters)

Unique new bolt design assures topmost safety and performance

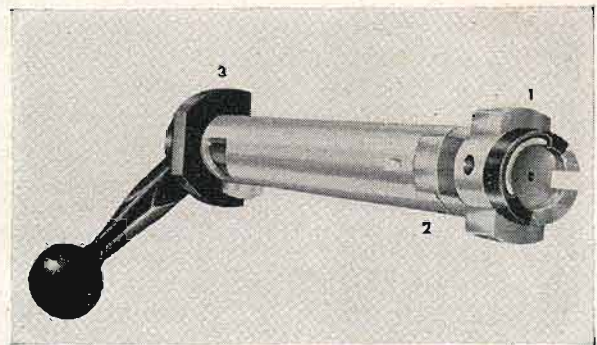
Men who know guns will see at a glance that this bolt is absolutely unique. Only one rifle has it... the Savage 110.

Those double front locking lugs (1) cam into the front of the receiver to give you the ultimate in a safe, secure lockup. The Savage 110 bolt is velvet smooth in action...no "wobble" to cause binding or cramping as in many actions.

This unique bolt is so simple in design and possesses so few working parts that it's a cinch to remove, disassemble, reassemble. You can't go wrong.

For added safety, there are twin gas ports in the receiver, and front and rear baffles (2 & 3) on the bolt assembly. In case of cartridge failure, these reduce danger from gas flow-back to a far greater extent than other bolt actions. Bolt is fully enclosed at rear; no cocking piece protrudes.

Find out about the American-designed, American-made Savage 110



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at your sporting arms dealer. You'll agree that advanced engineering is evident not only in the bolt, but in every feature of this accurate, featherweight high-power rifle.

LEFT-HANDERS! Have you seen the new Savage 110-MCL? Not a conversion, not a special-order item, but the first true left-hand big game rifle ever produced in volume.

Model 110, \$112.50. 110-MC, with Monte Carlo stock, ideal for scope, \$114.75. 110-MCL, \$124.75. Calibers .30-06 and .270, .243 and .308.

Savage Arms, Chicopee Falls 111, Massachusetts.

HERE AGAIN... MATCHED DERINGERS FROM COLT

Perfect presentation from the Old West... a cased collector's set of matched Colt Deringers No. 4 .22 Short. Each pair of gold-plated Deringers has walnut stocks and consecutive serial numbers. Popular demand has now brought back the Deringer as an addition to your collection and a handgun that means business. An unusual gift that will be appreciated by everyone. Colt Matched Deringers \$39.95 the pair. Colt Single Deringer \$22.50 each.



COLT'S PATENT FIRE ARMS MANUFACTURING COMPANY, INCORPORATED, HARTFORD 15, CONNECTICUT

(Continued from page 10)

loads, and recommend one Lot Number of any make, particularly with max loads. Hand-gun hulls picked up on the range are okay for short range plinking. But accuracy fans always buy new shells of one Lot Number, keeping them separate for one particular gun. For Hi-V rifles, I like new empty cases, rather than hulls from factory loads fired in my rifle. I prefer unprimed brass, on the theory that I can prime better than the factory. My case inspection is better than the factory, eliminating many troubles, and a few cases. My ammo is also better. You can assemble better fodder, the same as I.

Hi-V factory loads stress and strain hulls, especially hot stuff like the Swift, the 6mm's, etc. Much-used brass is inferior to new shells. Primer pockets enlarge, cases stretch, brass becomes hard and brittle from working, especially at the soft, annealed neck. Why use hot loads and try to use cases as long as they will hold together? For handguns, it's okay to buy factory ammo, and refill the hulls until you start getting cracked webs or split mouths. That's a mighty good time to discard the entire lot.

Cases are best trimmed to length, and visually inspected for non-uniform mouth thickness before de-burring. They can be loaded from 5 to 50 times, depending much on the brass quality and your loads. When mouths start splitting the Lot is about gone. With high pressure .357 or .44 Magnum loads I like new, or fairly new cases.

Some so-called "primer stops" on tools are merely tool stops, that make no allowance for variation in case head variation. I do not consider them satisfactory. The best type primer stop is the type used on the big R.C.B.S. Model A-2 press, popular with custom loaders and bullet swagers. It costs a few bucks more than some other presses that do good loading, but Fred Huntington's finest is a heavy-duty, versatile press, with no bugs whatsoever. The stop on the primer arm adjusts to seat primers in relation to the case head face. The stop is perfect, although primers of the same make vary .010" or more in length, and pockets vary in depth.

Still, there is no better way to seat primers than to a definite distance below the head face. Compression is more uniform than the "by guess and by gosh" method. It makes for uniform firing pin travel for more uniform ignition. Some old hands say, "The best deal is to seat by feel." I don't go along. Some old hands have had one year's experience 30 times, rather than 30 years' experience. There is a difference! A few have never loaded any precision smokeless ammo in their entire life.

Your trouble with sloppy priming depends on how sloppy it is, the type of primers, your particular gun, the type and charge of powder, and many other factors. Each individual problem may be compounded by several factors. Modern primers designed for handloading help correct many of our errors, and some of the factors we cannot control. They use thinner, and/or softer cups, that flatten with less breech pressure, so you cannot estimate pressure by how flat a fired primer is, as you could with old corrosive types. You have to judge pressure by case extraction or expansion, unless primers flatten completely.

Some primer mixes can raise pressure by

(Continued on page 67)



Flight cancelled

...you're on him with
your new Savage 30!

To ground the fast ones, get this sweet-swinging Savage 30 pump gun! It's a real featherweight, beautifully balanced, utterly dependable, with a smooth slide action proved by years in the field. 5 quick shots (with plug to reduce to 3), 12 and 20 gauge. Vent rib and decorated receiver, usually extra-cost custom features, are standard equipment!

ATTENTION, LEFT-HANDERS! See the new Savage 30-L, designed especially for left-handed shooters, and quit ducking those ejected empties! 12 gauge only, at the same price as the right-hand model. It's the *only* left-hand pump gun in the world.

Ask your sporting arms dealer to show you the Savage 30, right or left hand, \$85.75; 30-AC, with adjustable choke, only \$90.75.

Write for your free catalog of Savage, Stevens and Fox firearms. Savage Arms Corporation, Chicopee Falls 75, Mass. Prices subject to change. Slightly higher in Canada.

\$85.75

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for popular FOREIGN RIFLES

Do you own one of the foreign rifles listed? Use these Hornady handloads and get finer accuracy and more dependable shooting from your rifle—with greater economy. All loads tested and proved in our ballistics laboratory. Velocities are instrumental 20 feet.

6.5 x 55 SWEDISH MAUSER

HORNADY 6.5MM Caliber (.263 dia.)

 **100 GR. BULLET**

44 grains 3031 Velocity 3090 f.p.s.

 **129 GR. BULLET**

41 grains 4895 Velocity 2613 f.p.s.

 **140 GR. BULLET**

40 grains 4895 Velocity 2593 f.p.s.
45 grains 4350 Velocity 2510 f.p.s.

 **160 GR. BULLET**

44 grains 4831 Velocity 2343 f.p.s.

7.35 ITALIAN CARCANO

HORNADY 7.35MM Cal. (.300 dia.)

 **128 GR. BULLET**

38 grains 3031 Velocity 2485 f.p.s.
40 grains 4895 Velocity 2485 f.p.s.

Make cases from 6.5 x 54 Mannlicher Schoenauer cases. Seating depth $\frac{1}{8}$ "

7.65 ARGENTINE MAUSER

HORNADY 303 Caliber (.312 dia.)

 **150 GR. BULLET**

47 grains 4895 Velocity 2808 f.p.s.

 **174 GR. BULLET**

45 grains 4895 Velocity 2588 f.p.s.

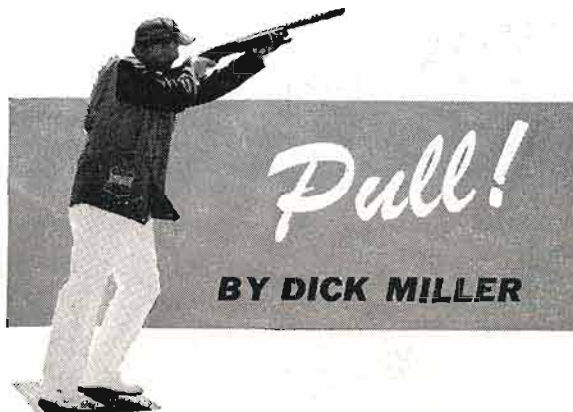
Make cases from 6.5 x 55 or 7.7 Jap cases.

58 bullets to choose from—send for list

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MICHIGAN trapshooting is booming—no pun intended. The recently concluded Michigan state trapshoot drew over 300 entries in the Sunday handicap championship. ATA returns for the state are up 84% in one year, according to Chet Floyd, secretary-treasurer of the state association. If this progress rate continues, which seems likely, Michigan may soon challenge its sister states of Ohio, Indiana, and Illinois for the size of state shoots, and for total numbers of targets thrown.

And the accent on youth prevails in Michigan shooting events, as it has in other state and regional championships in recent months and years. Sixteen-year old Gerald Grosvenor, of Owosso, won Michigan's handicap championship, after a 50-target shoot-off with Lou Chamberlain, a converted skeet shooter. J. D. Townsend, Richard Williams, one of the shooting Williams family, and Phil Baker. Gerald smashed 49 of his extra 50 targets, to stave off the bids of his elders for the first place trophy. A Hoosier, Richard Mores, from Whiting, took the out-of-state title after a shoot-off with another Richard, Richard Reese of Niles, Ohio.

Appropriately enough for a state championship held at the Detroit Gun Club, an automobile dealer, Ellis McCulley, from Flint, took the 16-yard title with 199x200. Handicap winner Grosvenor also added 198x200 in the 16-yard race, good for the junior championship. Kurt Heide, Jr., of Utica also broke 198, and became the runner-up when Grosvenor elected to take home the junior championship.

L. F. Loucks of Flint bested Saginaw's Art Hickey in a shoot-off for the Class AA 16-yard title. Howard Marquardt, of Sturgis, ground out 197x200 for the Class A trophy. One target less threw three men into another shoot-off for Class B honors. Lyndell Bird, D. G. Miller and George Heufelder locked horns in this shoot-off, which went to Bird for an extra 25 straight. W. A. Baggett cracked 197x200, good for Class C, and another shoot-off returned Elga Dannefel the winner over Abe Ferris in Class D.

One familiar name was missing from the Michigan state event. After more than three decades of competition, an injury sidelined the great Ned Lilly, Michigan's best known

contribution to the game of trapshooting. For many oldtimers, it didn't seem like the Michigan shoot without Ned Lilly on the scoreboard. But, he'll be back, and grinding 'em up again next year.

o o o

Attendance records at state trapshoots were shattered with abandon all over the Midwest's heartland in 1960; 633 handicap entries on Sunday taxed the 14 traps available for Ohio's state event. A record field of 427 handicap gunners over 10 fields finished just ahead of darkness at the Indiana tournament, held at Herschel Check's club in Clinton. Springfield played host to 482 handicap entries on the final day of the Illinois championships.

Pressure-packed shoot-offs featured the 1960 Hoosier state trapshoot. Two Hoosiers and one Sucker (Illinois) locked horns in a shoot-off for the handicap title, after all three had posted identical 99's, and identical event scores to reach the 99 total. Each shooter dropped a target on the first trap, then went straight. Clayton Bond, who lost the shoot-off to Joe Powell, dropped his first target, then ran 99 straight. Gene Goldsboro upheld the honors for Illinois in Hoosierland.

Ohio's Johnny Sternberger and Dale Millar extended the doubles duel they had begun earlier in Michigan. Both tied with 98 in Michigan, and 96 in Indiana. Just to show good sportsmanship, Sternberger won the Michigan set-to, and Millar prevailed in Indiana. Carl Buchanan won the Hoosier doubles crown, his 95 besting the 90 turned in by veteran J. Jump Houchin.

Indiana's singles race was decided only after a blistering shoot-off. Four men broke 200 straight 16-yard targets. Dennis Kingen was top Hoosier, defeating Earl Tolliver. Johnny Sternberger from Ohio, and Bobby Stifal from Illinois, battled an extra 75 targets for the out-of-state trophy, which went to Bobby Stifal for his additional 75 straight, when Johnny dropped a target in the third overtime period.

Edna Stark, who can break targets with the best of the men trapgunners, repeated her 1959 Ladies victory.

Indiana trapshooters will tangle over a
(Continued on page 68)

YAMA Wood (Imported)

**GUN STOCK
BLANKS**

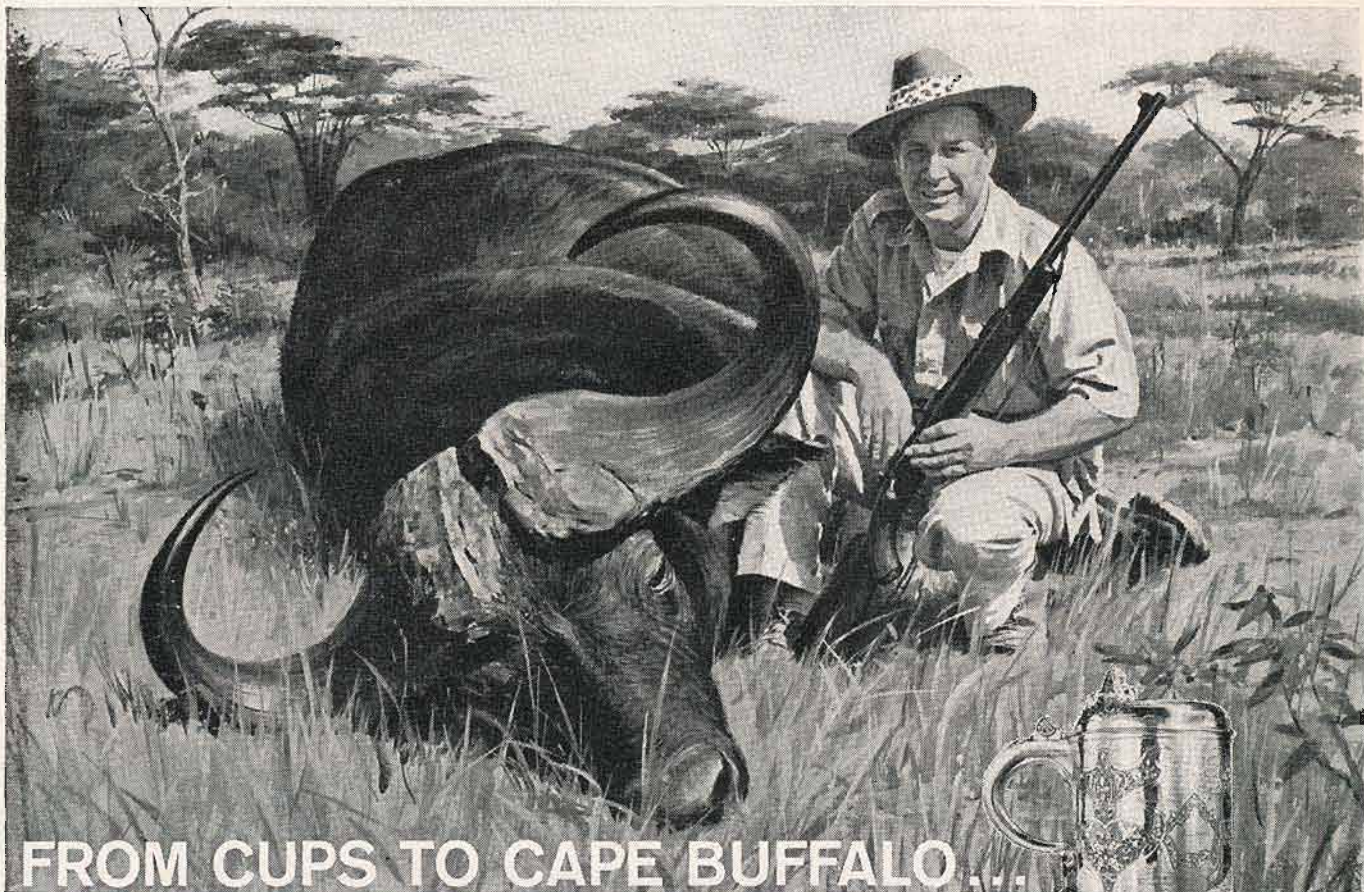
Most exotic of ALL Gun Stock woods
Amazing three dimensional figure that
accurately moves with varying light angle.
Available for first time in perfectly dried and seasoned superb AAA grade
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takes 1/2 to 1 lb. off gun weight while adding beauty, strength and hardness. Write for
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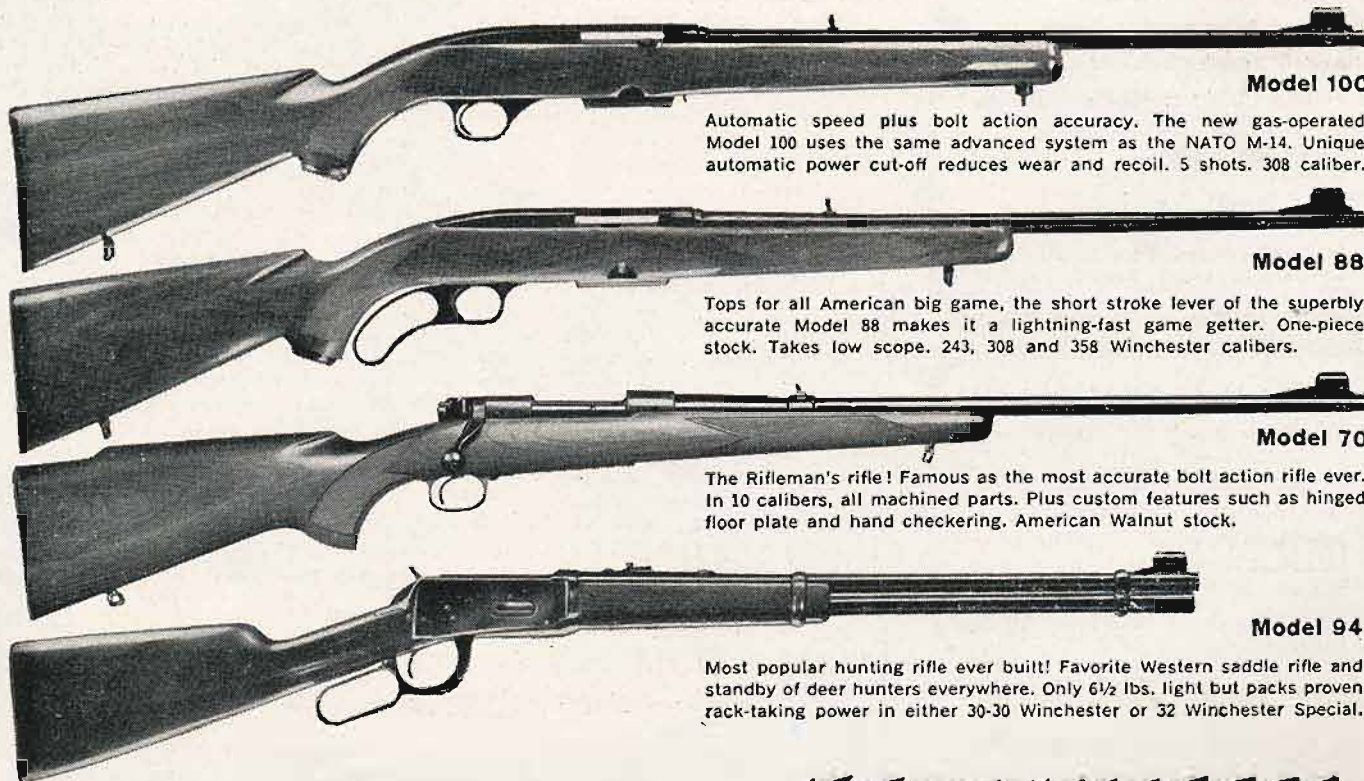
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From the firing line at Camp Perry to the plains of Tanganyika, a Winchester is the one you want for either extra match-winning V's or charging lions. Whether

you need self-pointing balance for snap shooting on whitetails, or pin-point accuracy on antelope, any Winchester you choose will give you both.



Model 100

Automatic speed plus bolt action accuracy. The new gas-operated Model 100 uses the same advanced system as the NATO M-14. Unique automatic power cut-off reduces wear and recoil. 5 shots. 308 caliber.

Model 88

Tops for all American big game, the short stroke lever of the superbly accurate Model 88 makes it a lightning-fast game getter. One-piece stock. Takes low scope. 243, 308 and 358 Winchester calibers.

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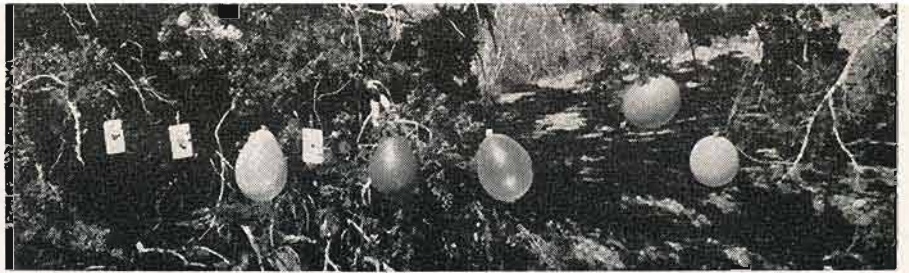
The Rifleman's rifle! Famous as the most accurate bolt action rifle ever. In 10 calibers, all machined parts. Plus custom features such as hinged floor plate and hand checkering. American Walnut stock.

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Most popular hunting rifle ever built! Favorite Western saddle rifle and standby of deer hunters everywhere. Only 6½ lbs. light but packs proven rack-taking power in either 30-30 Winchester or 32 Winchester Special.

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Gay balloons or worn playing cards make cheap, tricky, hunting-fun targets.

TARGETS - FOR BUCK BUSTERS

By BOB KINDLEY

Traditional deer poster on gravity rollers is important in checking skill developed on the other practice targets.





Water-filled coffee can hit by .30-30 kicks second target high for next shot.

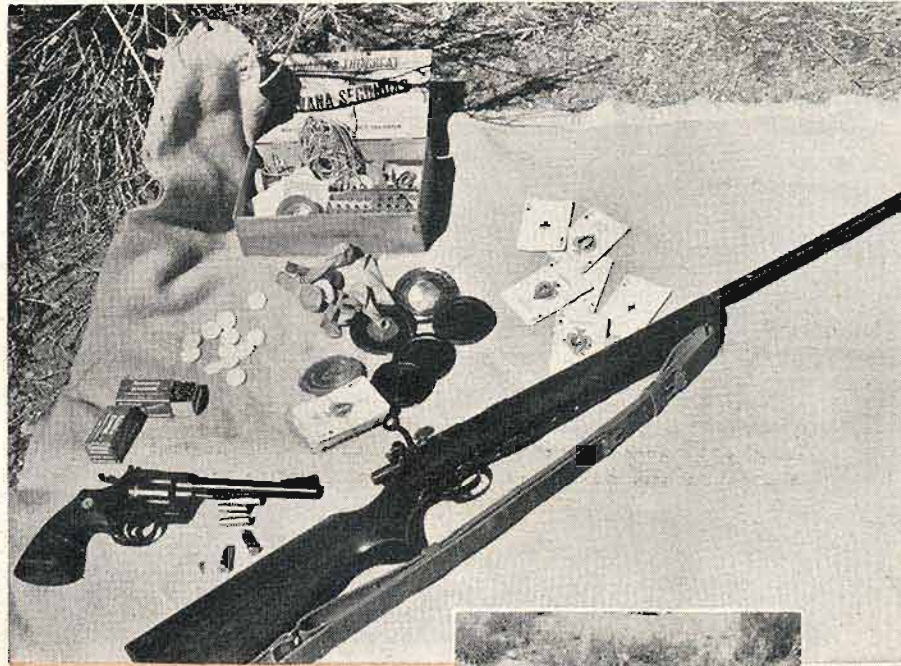
IF YOU HAVEN'T done it already, it's high time you got your rifles—and yourself—sighted in and tuned up for hunting season. No rifle that has rested unfired since last hunting season can be depended on to deliver the essential on-target groups; and certainly few men, if any, can walk into the hunting field after a year of no practice and deliver the sure shooting essential to clean kills that are the mark of sportsmanship.

There is only one correct way to sight in a rifle, and that is from a good, solid rest. There are many methods, varying in detail, and they have been printed and reprinted until surely every hunter knows how to find out whether his rifle is on target and to correct it if it isn't. Less has been printed about sighting in and tuning up the shooter.

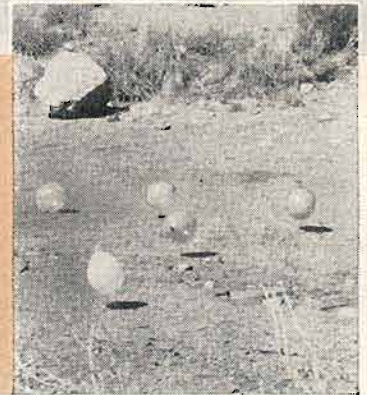
Many hunters regard target shooting at paper bullseye targets as a weary chore to be avoided. I find it a bit monotonous myself, some times. And except for the hunter-to-be who still needs to learn the absolute fundamentals of hold and squeeze and sight picture, punching paper targets is not the best practice for hunting. In practice for field shooting, variety not only adds spice and interest—it adds purposeful direction that pays off in results under field conditions. Shooting from prone, with sling, time unlimited, is one thing, and a thing you won't often experience in hunting. Bustin' an old buck bouncing through the brush is another problem.

Every year, three or four months before deer season, the boy and I sight in our rifles with our hunting ammo. This

HUNTERS AS WELL AS HUNTING RIFLES NEED SIGHT-IN AND TUNE-UP. PRACTICE TARGETS LIKE THESE WILL MAKE YOU A BETTER HUNTER



Good fun targets are candy wafers, balloons, tin can tops painted black, cards. Fix up with imagination and plenty of ammo. At right, free balloons are tough-to-hit marks.



Half-power lead bullet handloads make excellent practice with big game rifle possible at a fraction of factory hunting ammo prices.



shooting is done from bench rest. Then we concentrate on getting *ourselves* ready.

There are several excellent targets which give us the "feel" of game shooting. Most of our favorite deer country is brushy, with a lot of jump shooting. So our practice targets have been tailored to meet this sort of field shooting.

One of our favorite targets is the full size running deer, lithographed in full color. This is taped to a heavy cardboard backing nailed to a light lumber frame. A pair of small pulleys are attached to the top of the frame and



Pop-up target can be jerked upright by string, combines unknown distance shooting with an element of surprise.



Rolling, bounding tire carcass as it careens down hill is close simulation of a frantic deer's flight to safety. If you can't hit this at hunting ranges, don't hunt yet.

mounted to run on a length of heavy wire.

In use, we stretch about 75 feet of wire between a couple of piñon pine trees across a brush-lined arroyo. The wire is set with one end higher than the other so that the target will slide down the wire when released. Varying the angle of the wire varies the speed of the target. Actually, this set-up is in an area very similar to our hunting territory. The target scoots down the wire through the brush, flashing across the openings just like a scared muley busting from his bed.

When using this target, the shooter walks in the general direction, rifle carried in normal hunting position, with the safety on. At the discretion of the target operator, the silhouette is released. The shooter has about three to five seconds to slip off the safety, get into shooting position, and snap off his shot. Only hits in vital areas count. And when the rifleman gets to the point where he can keep all of his shots in that area from varying distances, he needn't worry about busting his buck.

Another version of this same target we use to good advantage is the "pop-up" type. Here the target frame is hinged to a plank. The outfit is then set out in the brush with a long cord attached to the frame so that the target can be snapped upright.

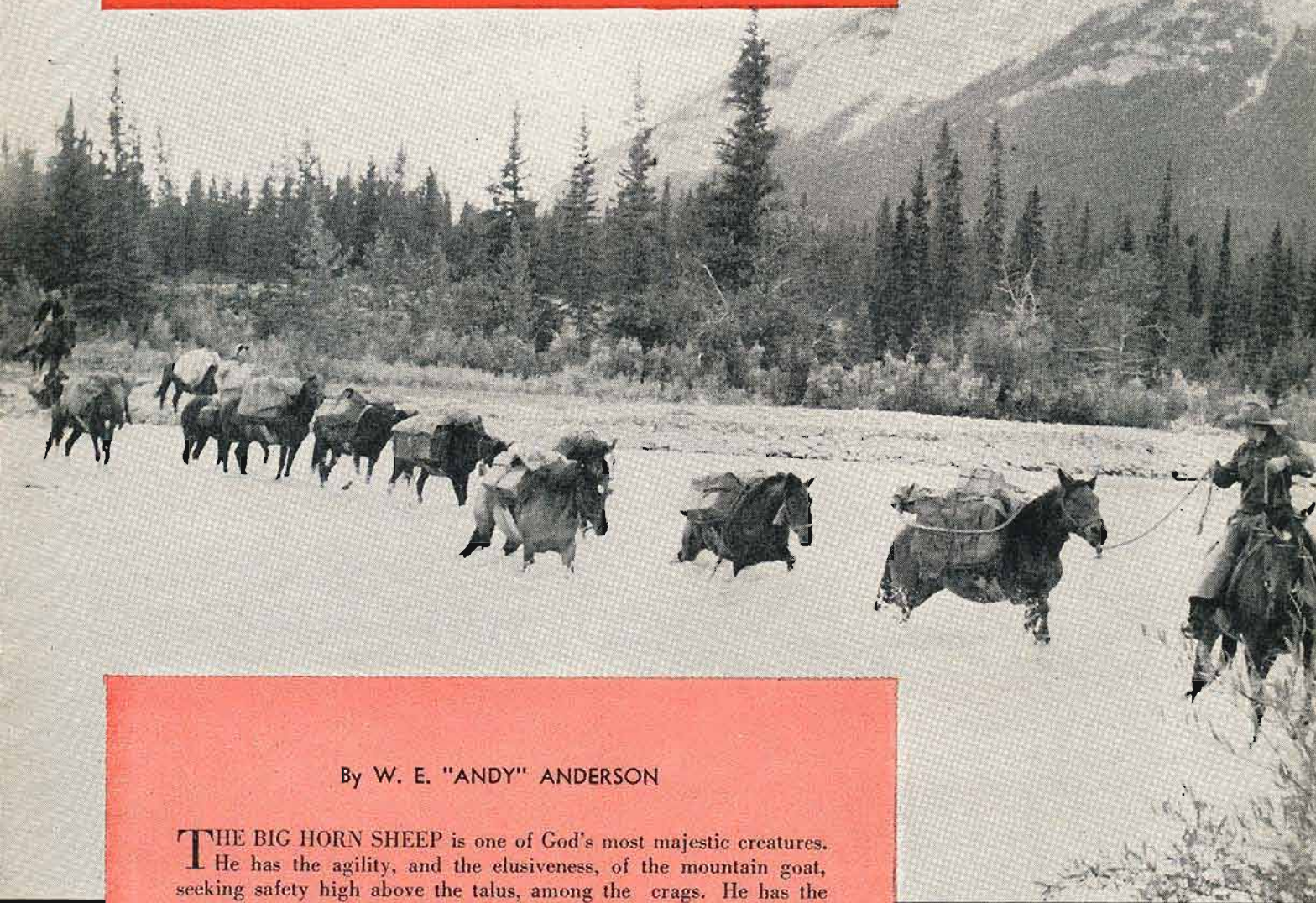
Here again the shooter walks in the direction of the target. The silhouette is raised at the discretion of the operator, and the rifleman is given about 3 to 5 seconds to get off his shot. The best practice is to pull up the target when the shooter is off balance or has his "off-side" foot planted. Or snap it upright when he has to move around some brush to get a clear shot. But vary the time and the circumstances to get the best results.

Ever try to hit an old buck that has just busted from his bed? A good bouncing target to simulate this situation is an old bicycle or auto tire. Fill the open space with a piece of plywood or stiff cardboard. Paint a black bull about 6" or 8" in diameter on it. Now roll the tire straight away, or quartering towards or away from the shooter, or at right angles to him, or directly at him (released remotely, of course). The idea here is to get your shots either into the black bull or into the tire as it bounces along.

Every one likes to see a target shatter or burst. Toy balloons, the 1-cent kind, make excellent targets of this type. Blow them up to various diameters, and turn them loose on a breezy day. The resulting targets, skipping across a field, will give you some of the best moving target practice there is. Or blow up some of these balloons to maybe 5"-6", then hang several from the target frame on strings. Back off to 100 yards and try bustin' them *offhand*. Just about the time the sights are (Continued on page 37)



The Big Ram Of Job Pass



By W. E. "ANDY" ANDERSON

THE BIG HORN SHEEP is one of God's most majestic creatures. He has the agility, and the elusiveness, of the mountain goat, seeking safety high above the talus, among the crags. He has the dignity of the wapiti. His hard-muscled body is about as much like the woolly barnyard sheep as a panther is like a fat Tabby. As a trophy, he is magnificent, but in the taking he defies all the good rules the hunter tries to abide by. And when at last he looks out from over your mantlepiece, the ponderous sweep of horns curled about his ears, he still seems to defy you; he gives no hint of the hazardous, back-breaking and bone-weary stalk you may have endured to bring him in.

A truly good trophy sheep head does not reflect any wanton slaughter by the hunter. Few riflemen, especially if they have not gone out after this massively-crowned king of American big game, realize the

Fording glacial stream, the water white with rock-dust, Anderson's party head for a camp site in Alberta, Can.

**STAMINA, A PERFECT RIFLE, PERFECT SIGHTS,
AND PERFECT MARKSMANSHIP ARE MUSTS
FOR THIS LONG-RANGE BIGHORN SHOOTING**



"Through the 60X eyepiece the big ram loomed like locomotive . . ." In camp, Andy and Mabel watch guides flesh out trophy.



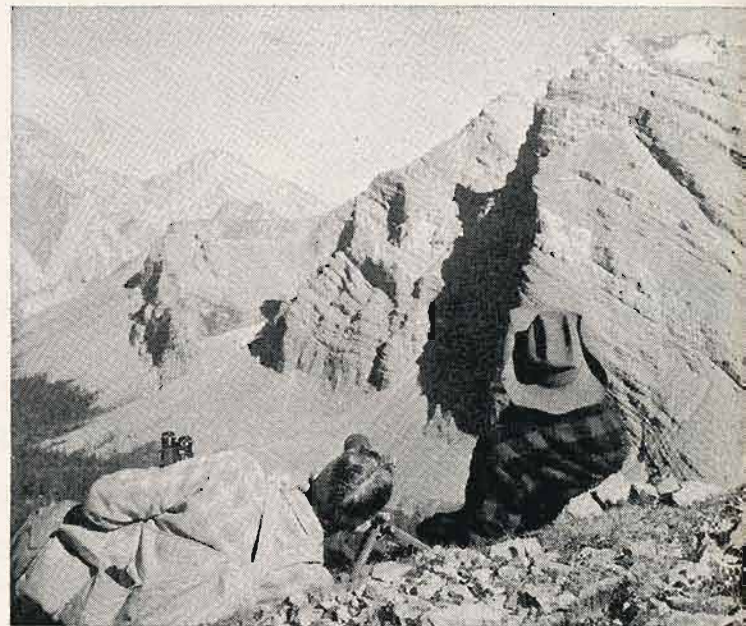
"Thus ended the quest for the hardest to get trophy I have taken out of over 100 head of North American big game . . ." Near-record ram took one shot on horn, was felled by hit at about 500 yards.



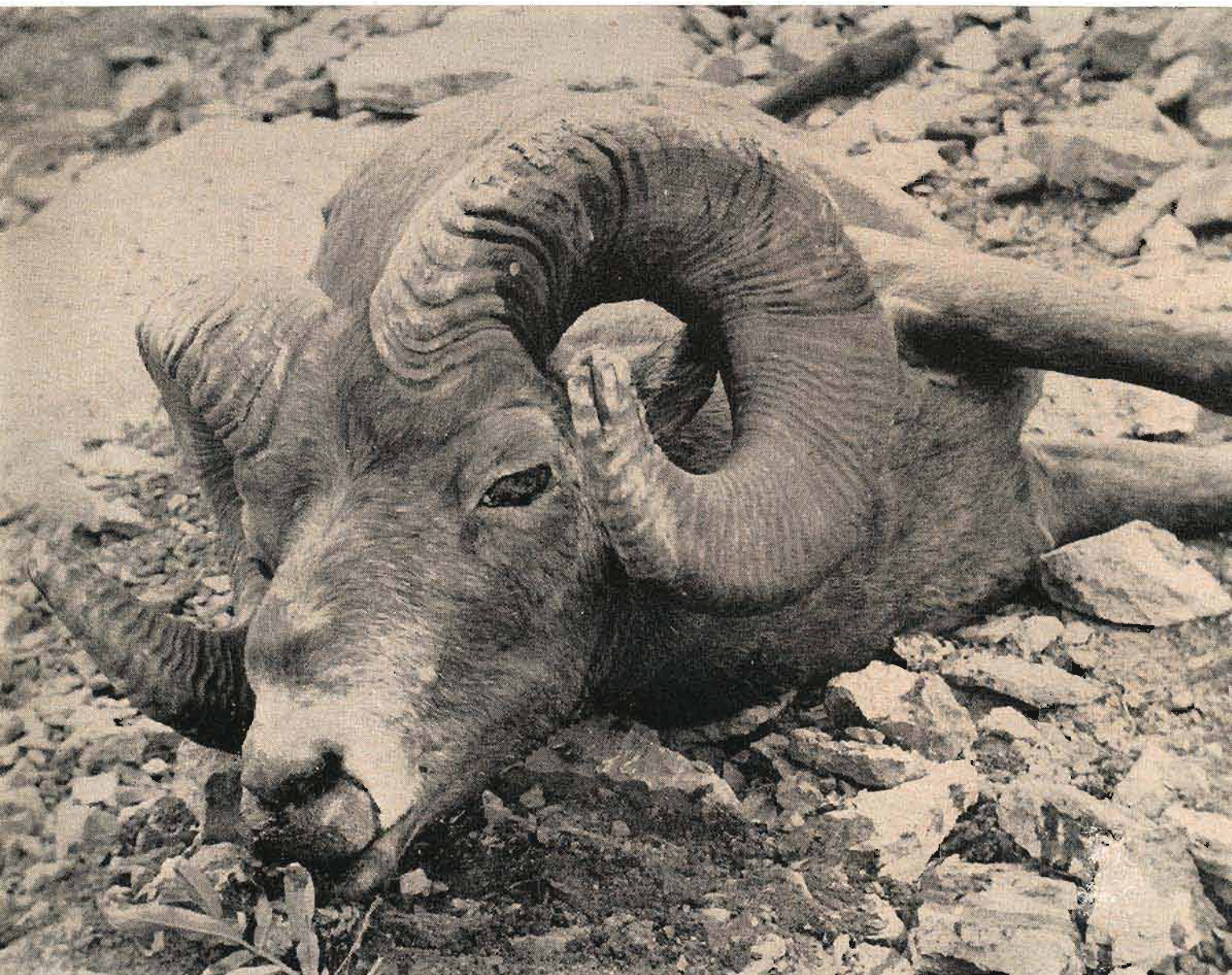
scarcity of a really good head. "It takes at least twice the number of years to grow a trophy sheep that it does to mature a bull elk or moose," my guide Phil Temple once told me. "Excepting the first years, a ram will only grow four inches (average) of horn a year. So it takes at least ten years to grow a forty-inch head. Even ten years does not mean he will have forty inches for, somewhere along the line, poor food may have stunted horn growth; and also he may be broomed, the horn ends splintered from combat with young rams. No, there just aren't too many big ones," he concluded.

Few old rams are lucky enough to live so long—a foot slips in old age and he is gone. So the really fine head is rare for many reasons. The trophy hunter does a service, in one way, for he preserves this fine animal's grandest feature beyond its normal span of years.

Not only the qualities of the animal had brought me once again into the high hills of Alberta. This time I was determined to get one. Culmination of much careful plan-



"For several minutes I studied the sheep . . ." Somewhere on opposing crag above talus slides are nine Big Horns.



Majestic even in death, horns pushing 40 inches made Anderson's sheep hunt memorable. Hunter credits preparation with making long range shot possible.

ning, my present hunt followed last year's unsuccessful search during which a really good ram was not even glimpsed. This time, guided by Philip C. Temple, who was president of the Alberta Outfitters' Association, we searched for an outstanding Big Horn in the Brazeau and Saskatchewan areas of west central Alberta.

"The hunter who gets a real trophy ram is a special breed of man," Phil liked to remark. "He has to be or he'll seldom get anything worthwhile," he continued emphatically. "It takes a lot of up and down climbing, plain hard work, to produce results; that's why so few hunters ever get even one first class sheep trophy of any species." And as he said this I remembered what Kellum Johnson, my partner on my 1956 Stone sheep hunt in northern B.C., declared while we each took rams that made Boone & Crockett records: "You don't have to be crazy to be a sheep hunter, but it helps."

It also helps to be a lucky shot. Of course I've sighted in my rifles at many ranges, taped the figures on the stocks for

quick reference. My wife Mabel, who for several years has accompanied me on these hunts, shoots a .30-06. My own long range rifle is the .300 H & H magnum, Model 70s, hers topped by a 4X Bear Cub scope in the old reliable Redfield Jr. mount, mine with a Lyman All-American.

In helping her zero the .30-06, I tried to impress upon her that extreme long range shots are not desirable. They should only be tried when conditions like spooking the game, or unfavorable terrain, make them mandatory. And for optimum bullet placement, always shoot from prone, with a rest, or a sitting position when such shots are attempted. With years of hunting experience I always use a rest on all but the shortest shots, if circumstances permit.

But often the Big Horn doesn't permit those circumstances: I have taken three sheep, and five of my nine goats, at ranges of 400 yards and up. One goat was taken at 700 yards (my guide's figure: I said 600) and two at 500 and two at 400. But it was not because I wanted it that way. A few years ago I would (*Continued on page 44*)

Mr. K's BABES AT ARMS



These photos were taken illegally in East Germany and smuggled out to the West for this exclusive GUNS scoop of weapons training for Young Pioneers. The byline name is a pseudonym and other identifying characteristics have been changed to protect the photo-journalist who may still be in Germany.



Red German teenager approves handiness of Russ auto carbine (left) while ten year olds work action of RPD gun.

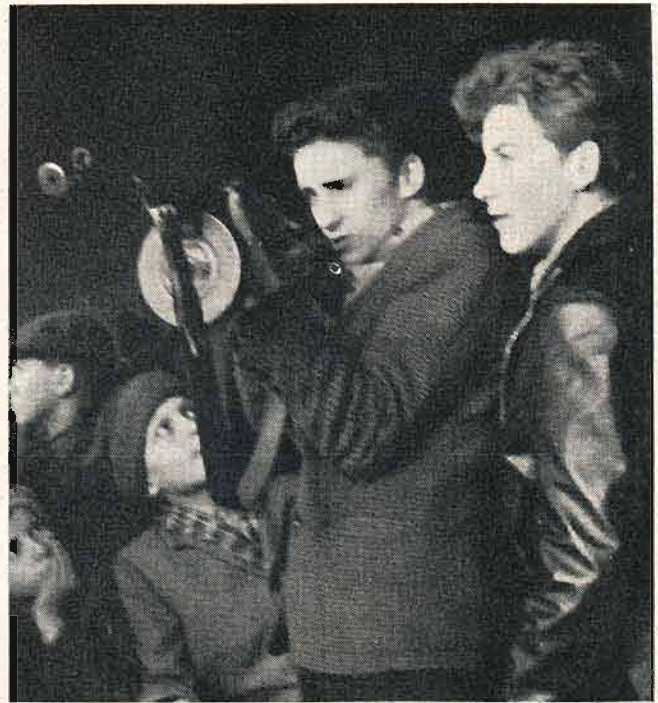
By "KURT WEHRNER"
As told to Robert Brown

WHILE SOME AMERICANS attempt to restrict their children's interest to imitation firearms, the Communist Government of East Germany encourages the exact opposite. There, kiddies play with the real McCoy. They start pre-military instruction, which includes familiarization with firearms, at the age of six, and continue it for the next 16 years.

While traveling through East Germany some time ago, I witnessed such training at first hand. I had stopped in Dresden, in the center of the Russian dominated zone of Germany, and visited the park of the Young Pioneers. This East German communist organization for young people is modeled after its counterpart in Russia, and after the notorious Hitler Youth organization. This particular day the youngsters, aged six through 10, were assembled in the park meeting with members of the "People's Army." The purpose was to bring the kids into closer contact with their "older comrades," a periodic culmination of the theme that is continually drilled into them that "The love of the People's Army is the patriotic duty of every young socialist."

Here, their interest in the military is awakened and cultivated through handling modern firearms. And I don't mean BB rifles. I saw them being instructed in the use and operation of the current military weapons of the East German Army and the Police, "Volkspolitie." They had RPD belt-fed light machine guns, carrying 50-round belts in drums attached to the weapons. This new model arm is a Soviet-designed weapon, but has been made available to other communist nations. It is now being manufactured in East Germany, probably in the gunmaking center of Suhl, where East German sporting guns are also made. The wood-stock model of the assault rifle, the "Kalashnikov" or AK-54, was also being used for instruction. Both these arms take the short Russian .30 caliber cartridge, newly introduced. I have heard it said that the West Germans "also like the Russian cartridge" in terms of new designs of infantry arms. This issue of Russian-caliber arms to the East Germans may cause the West Germans to hope they can use captured stocks of Soviet and Red German ammunition if trouble starts. Uniform ammunition calibers among opponents has its odd benefits in terms of supply.

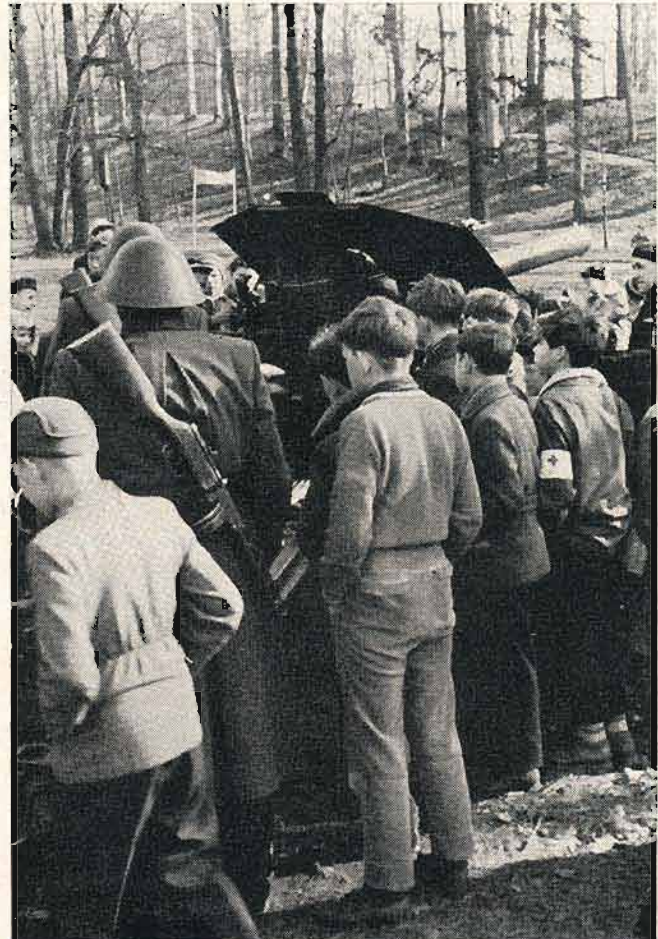
The instructors of the People's Army were carrying PPSH model submachine guns, but the absence of the newer weapons in their hands does not necessarily mean they do not have them available. It seems doubtful that toddlers not yet teens would be trained to use the new weapons if there were none on hand for issue. (Continued on page 36)



Youths fire blanks in familiarization course at school. Target is portrait of West German Chancellor over blurb: "Every shot is a hit at the heart of a NATO soldier."



Superior firepower is available to kids in East Germany than our crack 101st Air-Borne Division possess. People's Army instructor points out latch for 30-shot 7.65 clip.



Gun savvy from pistol through machine carbine, submachine gun, light machine gun to artillery is taught schoolboys who receive military training starting at six through 22.

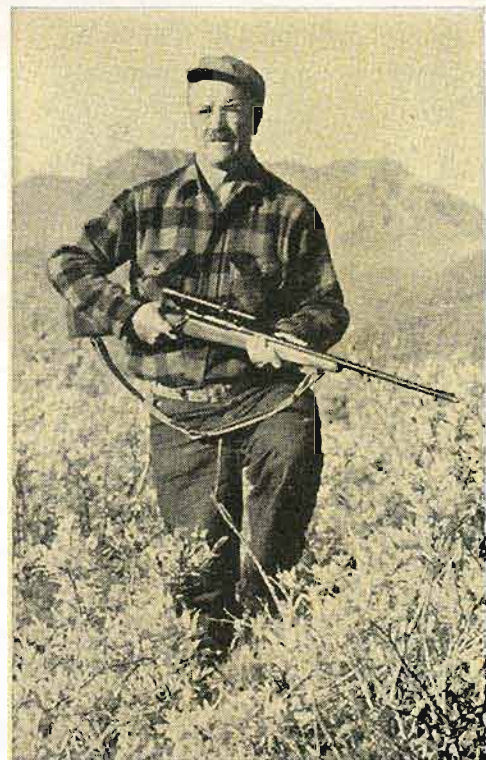
Long plains and mountain hunting distances require the flat trajectory of high velocity guns. Today's saddle rifle is likely a magnum in caliber and kick.



HOW TO LICK MAGNUM FLINCH



Trophy caribou in Alaskan bush don't always hide there: a long-ranging rifle of extra power took this one. Right, author proved his .338 Alaskan was tameable magnum.



By CLYDE ORMOND

I WAS ELK-HUNTING recently in Wyoming with Les Bowman, one of that state's top outfitters and big-game hunters. Another "dude" hunter had just come in from a week's hunt in some of the best country in the West. According to his guide, this man missed standing shots at elk at 65 yards, 115 yards, and another "just under 100 yards." Bowman said, without surprise, "Another magnum shooter, scared of his rifle. He just shut his eyes and jerked the trigger." The guide agreed.

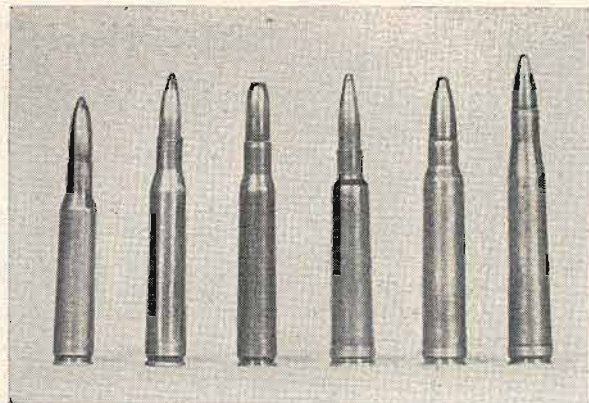
I talked with the disappointed fellow. He weighed per-

haps 140 pounds, was obviously well-heeled financially, and had a beautiful rifle in one of the wildcat, blow-out .30-calibers. He admitted the fault was his.

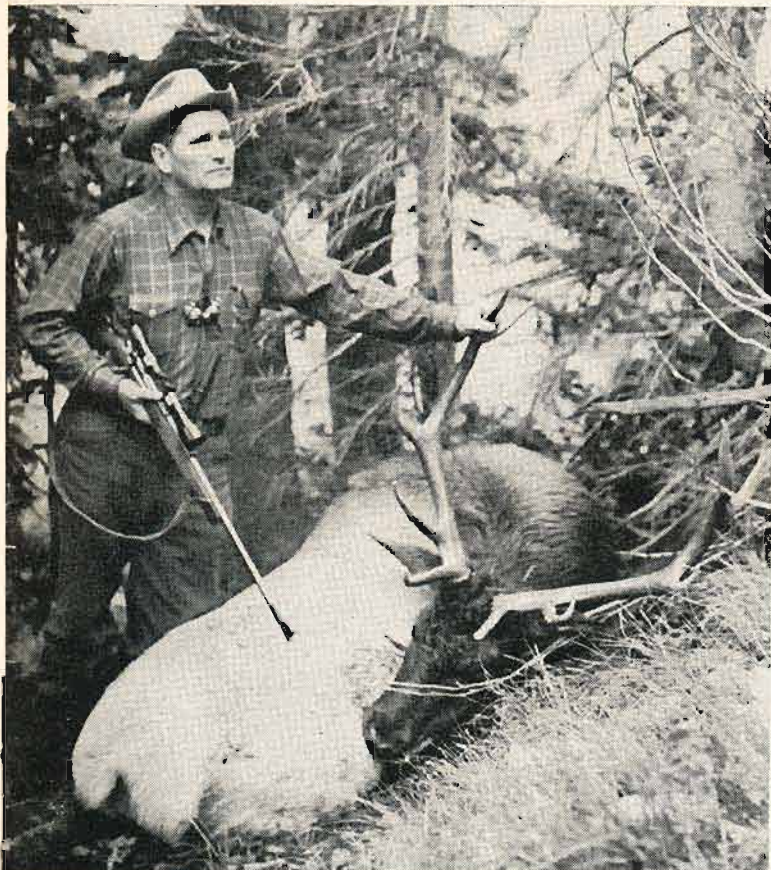
Later, Bowman told me, "Four of my ten spring bear hunters this year missed their shots. They were the only ones who missed, and all used magnums. All had good shots from 75 to 150 yards. Out of my 65 hunters each year, nine out of ten who miss elk are the ones who use these same big magnums."

"Why do they miss with magnums?" I asked.

**DON'T BLAME MAGNUM MISSES ON
THE RIFLE; LEARN TO SHOOT WELL ENOUGH
TO USE WHAT THE MAGNUM HAS TO OFFER**



At left, 7mm; at right, .300 H & H. Fraction of inch more case, powder, may mean missing finch.



Gov. Joe Foss took wapiti on same hunt with Ormond, uses Why Maggy to good effect. Foss is big man, has trained himself for recoil.



Ladies' approach to magnum rifle matter is solved by Mrs. Ormond. She accepts kick of 7x61 S & H without flinch.

"All for the same reason. The guns kick, and they're afraid of 'em. They just close their eyes and jerk the trigger."

Bowman is one of the country's leading gun experimenters, a practical big-game hunter and rifleman. He's hunted 43 of the 50 states, Canada, and Mexico. He fires thousands of test-shots each year, chronographs experimental loads. He caters to top-flight "dudes," and keeps photographic and text records of field performances.

Les is sincere, and what he says is true in the light of his experience. But I believe that he'd be first to admit that he sees but one side of a singular, overall picture. His "dudes" are mostly middle-aged, well-heeled men who can afford the best. "Best," in the American way of thinking, is often synonymous with biggest and most expensive. Consequently, many of his dudes are over-gunned and lack field experience.

A blanket indictment of *all* magnums, for all hunters, is, I believe, one-sided. My own 30 years' experience on game and shooting indicates that there is another side to the argument, and that there are ways of improving the magnum situation, to everyone's benefit.

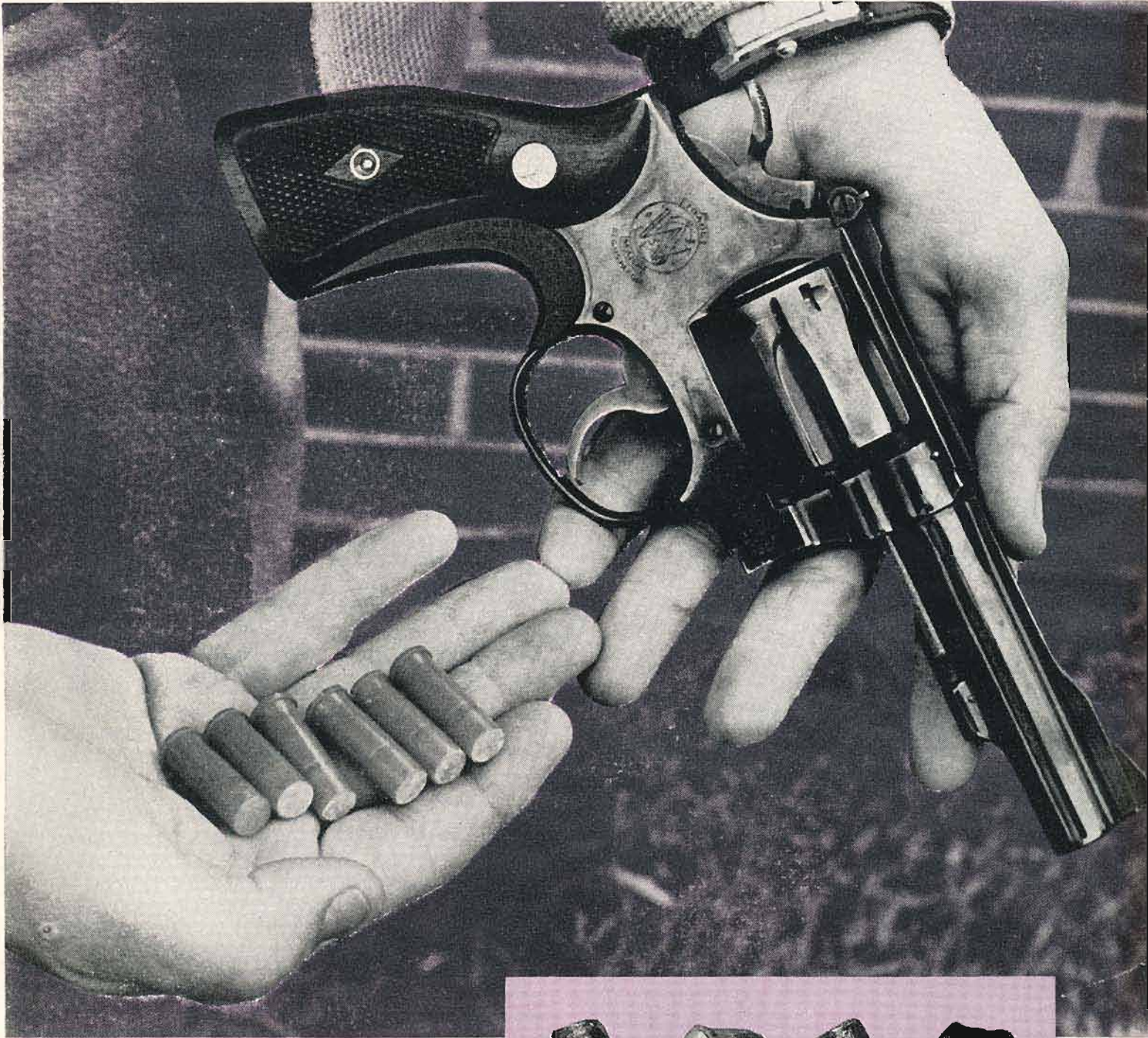
"Magnum" originally meant an over-sized bottle of champagne. Ordnance-wise, the term has come to mean anything bigger, and hence, to the uninitiated, "better." The danger and damage lies right there. The novice, and sometimes the experienced hunter too, recalls experiences where (a) he could not get quite close enough to game, or (b) where game didn't drop as he thought it should, or (c) where game was only wounded by shots he believed were "good." He thinks that, with a "magnum," he would have scored.

The factor habitually forgotten is that for every benefit we pay a price. For advanced equipment, we must, or should, pay the price of added skill to make use of its advantages. The mere word "magnum" won't kill game. Magnum means bigger, not magic.

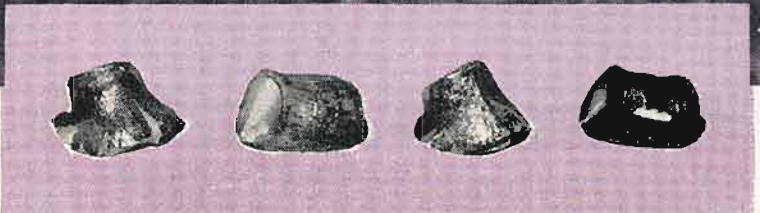
Many times in hunting, the target is "just beyond" reasonable range for standard arms. Stretching the range means to miss or cripple. In either event, the hunter is too apt to think, "If I'd just had a far-reaching rifle!" He is not apt to remember that the animal is probably also beyond his skill as a rifleman; and a far-reaching rifle badly shot still means misses (Continued on page 50)

NEW COMMERCIAL COLT AMMO, IN PLASTIC CASES,
PRIMER POWERED, WITH WAX BULLETS, PROVIDES

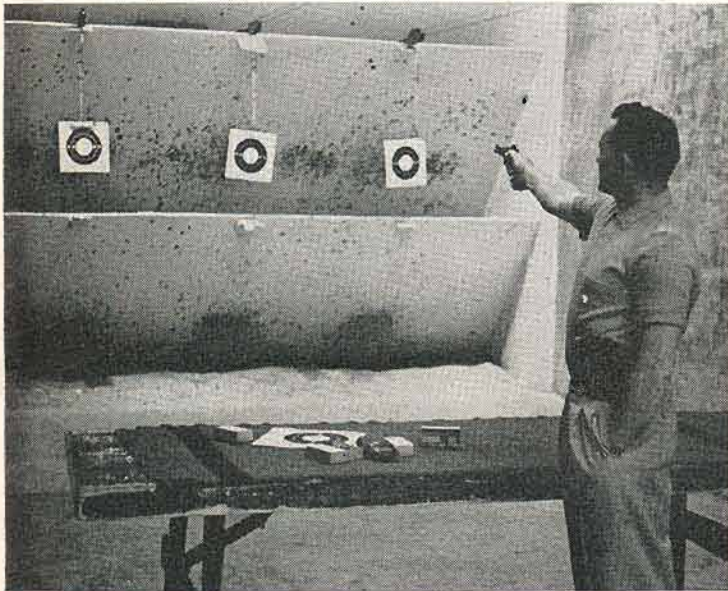
SAFE LOADS FOR



New Colt-sponsored .38 Spl. firing wax bullets from plastic cases was developed for police and quick draw practice. Light report and kick permit indoor use. Slugs at 15 feet have low energy.



FAST GUNS



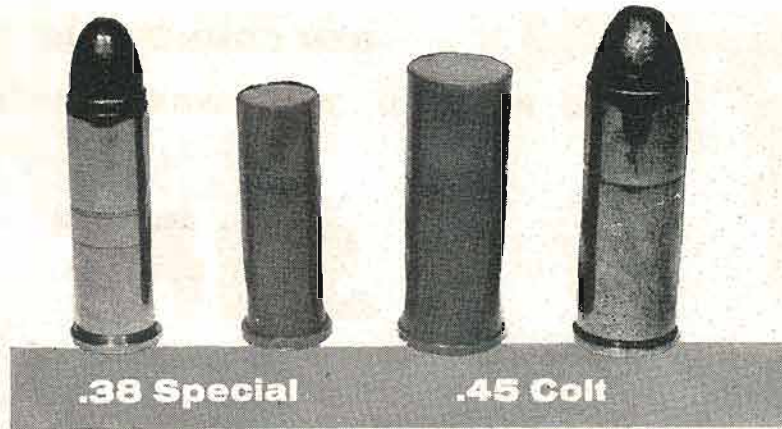
Sgt. Herb Carter tries out new loads at 15' on Midland, Mich. range. Dow Chemical, Midland, makes plastic shells.

By LEE LINE

WHEN A NEW shooting sport brings forth commercial ammunition specially designed for it, that sport can be said to have arrived. Handgun makers have known for a long time that fast draw was a big deal, as proved by booming sales of all Single Action models. Now we have a commercial cartridge which, though it has other values, is primarily for the "fast gun" trade. It is the new plastic-cased, primer-powered, wax-loaded sixgun cartridge produced by Saxe Brothers, a New York plastics moulding firm, for nation-wide distribution by Colt's.

This new development (resulting from the combined efforts of four firms, three of them outside the firearms field) may earn some small acclaim from serious target handgun shooters, as a practice load; but it will definitely solve some real problems for the fast draw people, for military and law enforcement groups interested in combat-style shooting practice, and for handgun instruction where heavy recoil, noise, and hard-hitting lead bullets handicap normal shooting. Produced in .38 Special and .45 Colt calibers, this cartridge permits safe, practical heavy-caliber handgun practice where more lethal loads could not be used.

The idea for the plastic ammunition originated with Colt's Patent Firearms Company. Saxe Brothers, plastics experts, of Albany, N. Y., worked with Dow Chemical Company of Midland, Michigan, and Standard Oil of New



Best accuracy (10 shots) was gained at 10 feet with low velocity primer loads.

Jersey to produce it. By now, nation-wide distribution has begun by Colt.

Cost-wise, boxes of 50 rounds of the special cartridges will be available at \$2.50 at the retail counter. The polyethylene cases are reloadable to a limited extent. Whether or not the cases alone will be available to handloaders isn't known.

From a standpoint of effective range and accuracy, this new product will be of limited value to target shooters, and its developers really didn't intend it to be. But where its worth in one area may be doubtful, benefits from the plastic ammunition elsewhere should be extensive.

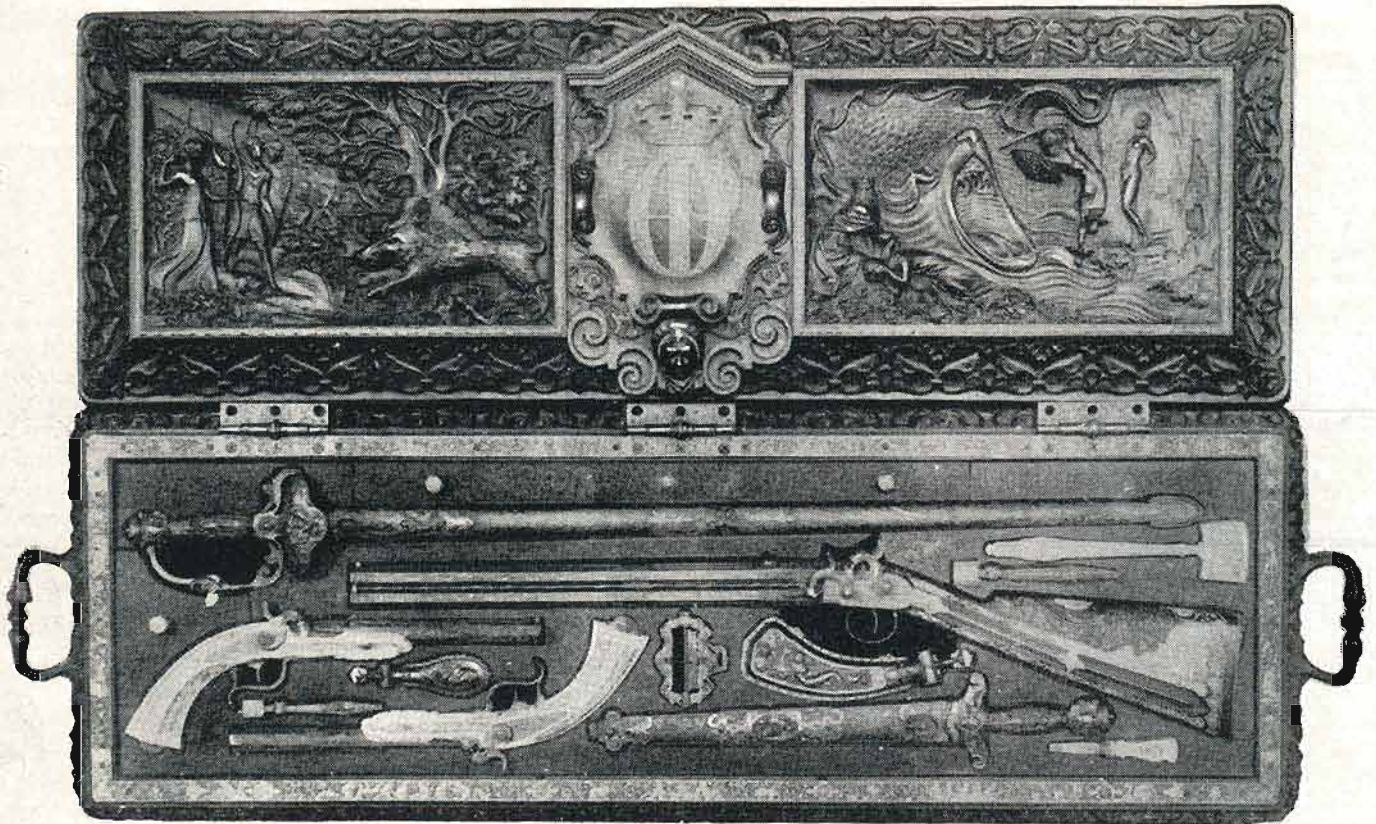
Police pistol trainers, for instance, can start new patrolmen on the special ammo, or use it to teach rookie cops to turn, draw, and fire fast, perhaps using their own reflection in a mirror some 15 feet away as the target.

Wax loads, of course, are the backbone of the fast-growing army of quick-draw artists. The polyethylene cartridges will end the necessity of reloading commercial steel cases with wax.

What about the handgunner who'd like to teach his spouse or son or daughter to fire a .38 or .45? The big guns' recoil, obviously, is a major drawback in any such undertaking. But the new plastic ammo starts the newcomers off easy with no kick, although still providing a realistic report as well as a con- (Continued on page 41)



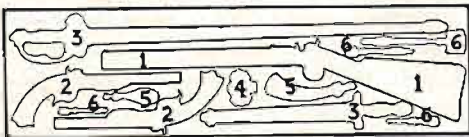
Where Are These Guns?



By MAURICE DERUMAUX

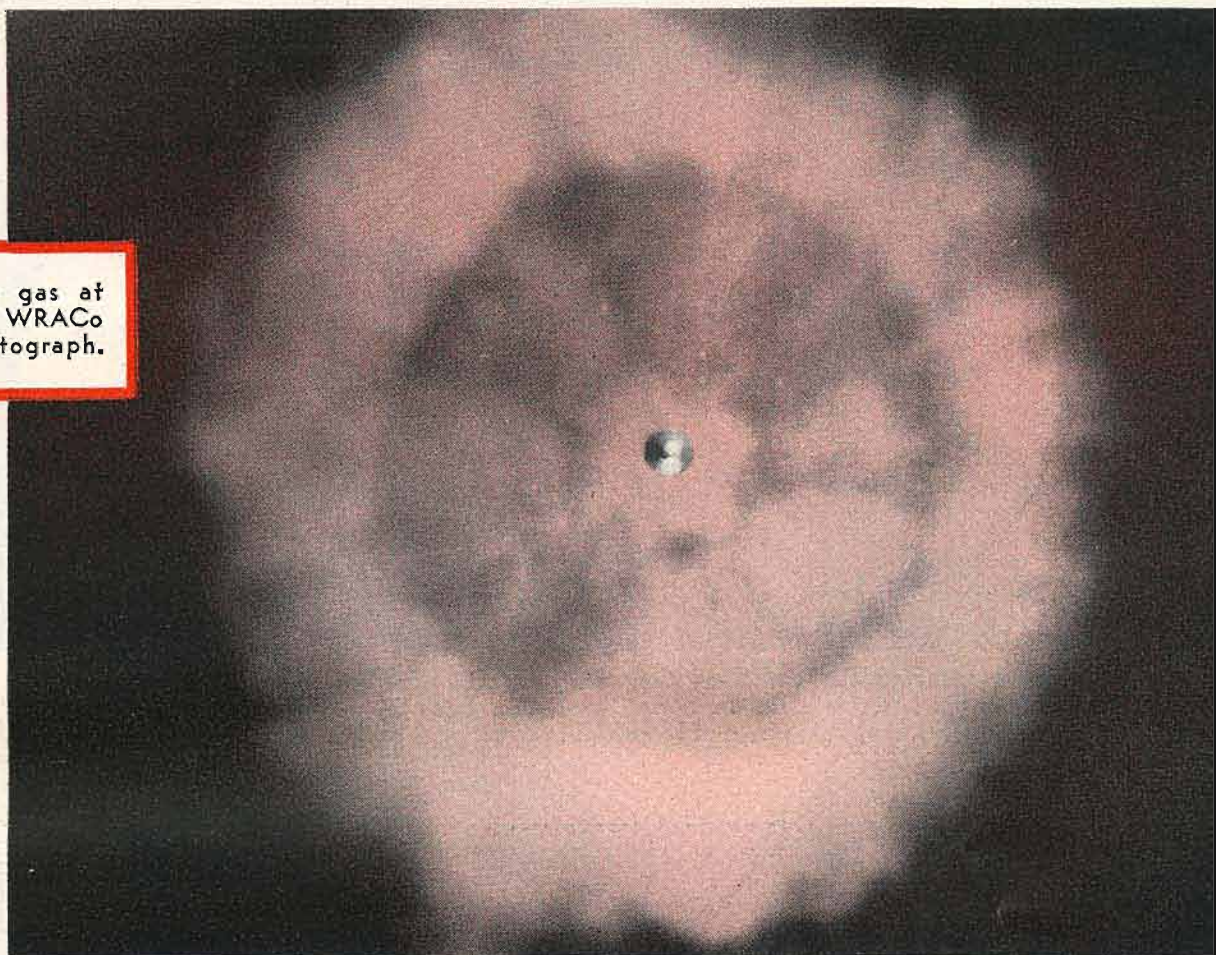
BOAR HUNTING GUNS OWNED BY FRENCH KING'S SON ARE LOST COLLECTOR TREASURES

GATHERING DUST in the quaint old shop of Faure Lepage, Parisian gunmaker still doing business near the Palais Royal, is a carved arms chest. Its lid bears the cypher of Ferdinand Philippe, duke of Orleans. Eldest son of Louis-Philippe, King of the French from 1830 until the revolution of 1848, the Duke used the arms, once cased in this chest, in pursuit of the stag and boar in the royal forests of France. But today this chest stands empty: only the photograph taken many years ago testifies to the royal elegance of the arms once preserved beneath its curiously wrought lid. All the pieces have disappeared. The empty case was given to Faure Lepage some time before 1910 as a souvenir, for the box and its magnificent contents of ivory stocked pistols, four-barrel hunting carbine, had left the shop of Lepage almost a hundred years before, probably in 1835. The set was crafted originally for the Duke by "Lepage," probably the son, Lepage Fils. The Ferdinand Philippe set in finish and style is in the best tradition. The case lid is elaborately sculpted in mythical scenes of Diana, the goddess of the hunt, and the rescue of Andromeda by Perseus who slew a dragon. Each weapon—the pair of pistols, the hunting sword, the short dagger to administer the coupe de grace to the stag or bleed the boar, and the unusual but not exactly unique four-shot (Continued on page 53)



- 1 Carbine; 2 Ivory stock pistols; 3 Hunting sword, knife; 4 Belt buckle; 5 Powder flasks; 6 Tools. One mould now remains.

Shock-producing gas at muzzle is seen in WRACo flash-mirror photograph.



Brakes, Blast, or Bruises?



Unbraked muzzle evacuates gas in spherical shape. Speed of gasses accelerates air beyond sonic limits, creates shock waves which on striking ears cause blast effect. Brakes may diffuse gas escape.

BIG MUZZLE BRAKE CONTROVERSY

BOILS DOWN TO "WHICH HURTS YOU MOST—
MUZZLE BLAST, OR RECOIL?"

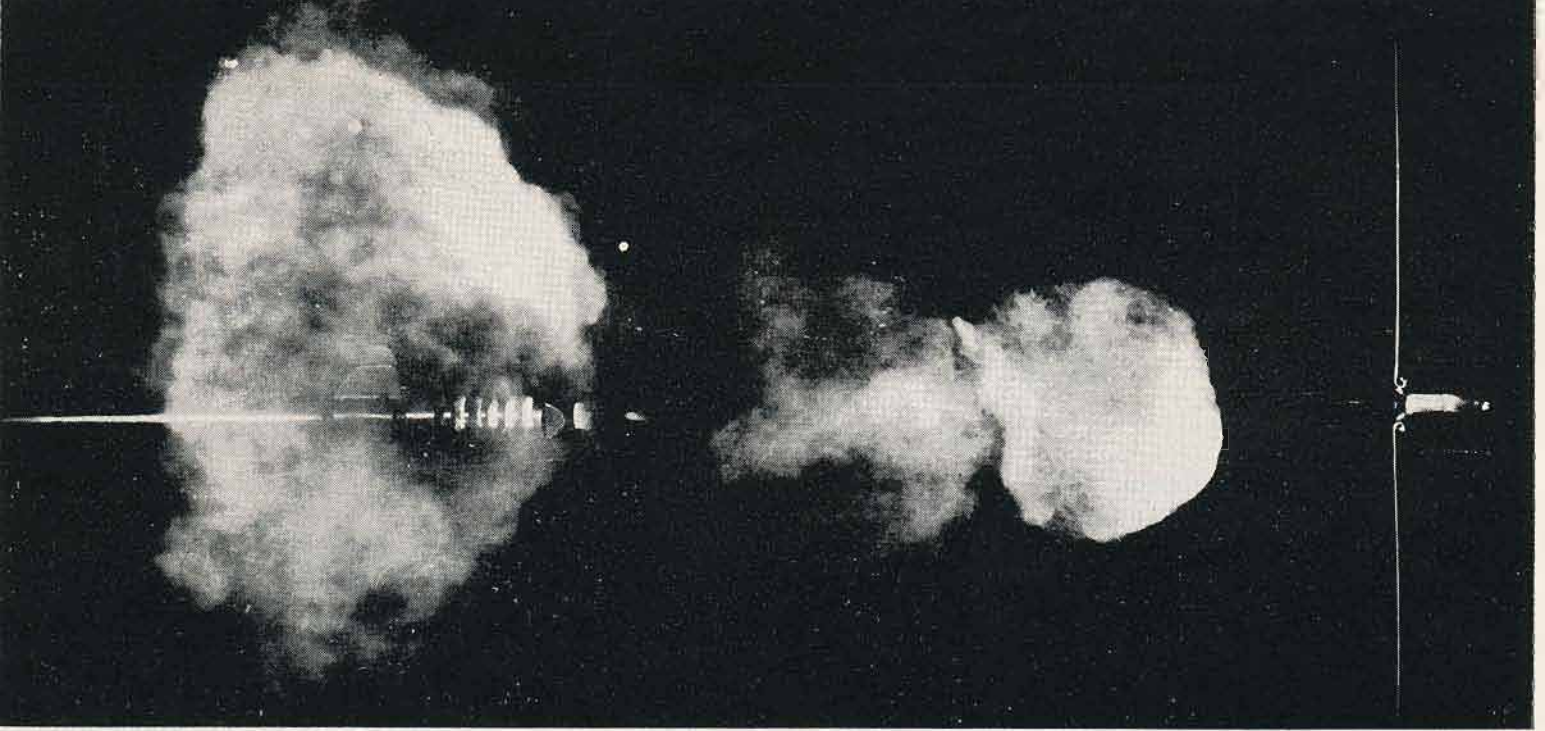
By J. F. MUTTER

MUZZLE BRAKES was "a dirty word" in US Army Ordnance circles during most of World War II. They were working for cannoneers in other uniforms all over the world, but our experts scorned them.

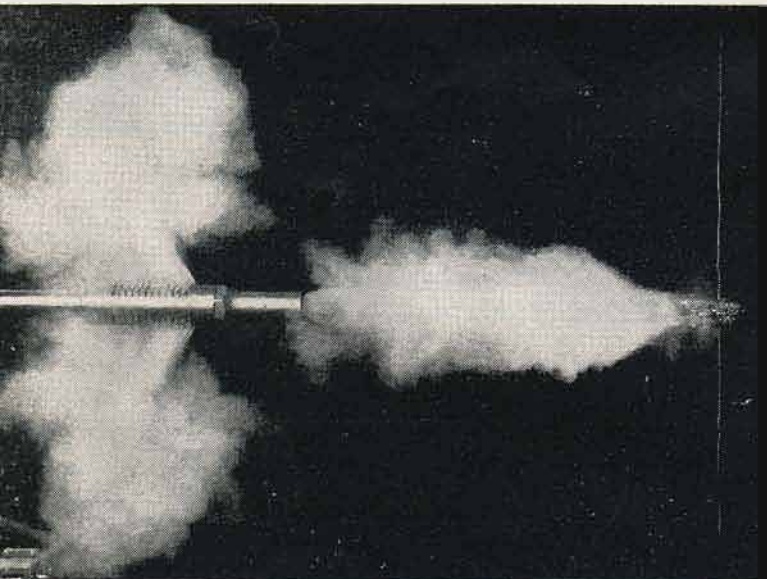
Similar prejudice against muzzle brakes exists today among some shooters. Even now, mention muzzle brakes in a gathering of gunmen and somebody is pretty likely to say, "Those blasters! Not for me! My daddy tried one, away back when, and his hearing has never been the same since!"

In the words of the old song, "It ain't necessarily so."

The fact is that a modern muzzle brake can do wonders in adding to shooting fun. It is by far the most effective way found to reduce recoil punishment—and nobody likes to be kicked more than he has to be, chest-thumpers to the contrary notwith-



Johnson muzzle brake on .30-06 Springfield reduced kick but deflected gas to rear. Though ports are side slots, some gas escaped in areas top and bottom of barrel. On firing, however, dominant effect of brake was to direct blast back in level with shooter's ears.



Cutts Comp for shotgun has big cylindrical shape, is slotted top and bottom. Lower pressure seems to be restricted to gas which does not hit ears directly.

standing. With a good brake, even youngsters and women can shoot light, powerful magnums up to .30 caliber and beyond. Brakes can control jump completely on all faster calibers—which alone is of great value not only on the range and in varminting but in quick recovery afield, particularly when going up against dangerous game. Properly made and fitted, a brake will invariably make groups more uniform and often will tighten them—something bench-resters would do well to investigate. And it will increase velocity in spite of a shortened rifled bore due to integral construction.

What few yet realize is that external blast has no more

to do with muzzle braking than it has with bullet propulsion. It is merely an aftermath, as thunder is of lightning. Actually, blast is always more violent, and the report louder, in concentrated straightaway from an unbraked gun than when diffused by brake ports and residual exhaust out through the exit. To verify this, one has merely to stand some distance away while identical guns, one with and the other without a brake, are fired.

But this is only one of many hard-to-eradicate myths and false theories about muzzle braking, that exist even among experts. Somewhat over two years ago I was startled by an assertion by a nationally known gun authority, made in a publication that prides itself on being the number one magazine on small arms, that braking would be doubled if gas exhaust from the brake were given a complete reversal—in other words, spurted back into the shooter's face. That was a boo-boo of the first magnitude. (There were several other egregious mistatements of fact in that article. The mathematical formula itself on which deductions were based was outdated in that it omitted the jet thrust factor in the total recoil momentum. More about this later.)

But prejudice against brakes in the past had some justification. Early ones were unnecessarily gusty and often offensive in their sharpened report. All were attachments, ungainly in looks and invariably bulky—on the mistaken theory that a brake had to be large to be efficient.

Today equally good, and better, brakes can be machined directly into small sporter muzzles. Through controlled, multiple small jet porting, noise and blast can be held to levels that come well within the tolerance of the great majority of shooters. And brakes have ceased to be an eyesore.

But noise alone is not the main offender. Controlled escape brakes actually cut down noise levels, more than enough to compensate for bringing it an inch or two closer to the shooter's ears. Many shooters with sensitive ears find controlled escape brakes an improvement over

non-braked barrels. The real gremlins in the blast problem, with braked or unbraked guns, are the shock waves generated by the bullet and gas escaping from the muzzle.

These shock waves, akin to the Kármán Vortex Trail in aeronautics—a complex of hard pressure waves, whirlpools, and eddies flowing out in a weird pattern from forward exhaust and bullet, and in a new set from the brake jets when a muzzle brake is fitted—are the real trouble-makers for those whose ears have a low tolerance to pressure variations. Varying frequencies, offensive to the hearing organism of one and not to another, further complicate this problem. These frequencies may be either in the noise or in the silent shock waves.

From an unbraked muzzle, these waves are *more forceful* than when diluted by the added escape area provided by a brake; but they flow out at an oblique angle to the shooter, and thus will not strike him head-on. Even so, when barrels are shortened unduly in high-intensity calibers and remaining muzzle pressures are very high, the backwash from an unbraked barrel often causes acute annoyance to some whose ears have low tolerance to a sudden pressure change.

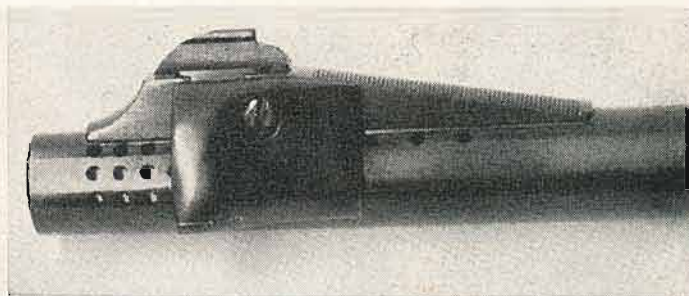
With a braked gun, this problem is somewhat aggravated, particularly on short barrels for powerful calibers. While no powder gas from any commercial brake today ever gets back to the shooter, the inner shock wave from brake escape flows back more directly and, though weakened by diffusion, can put a “zing” into his ears, if his tolerance is low. If unexpected, it can be a startling and unnerving experience.

Blast allergy is no respecter of persons. I have seen hairy-chested six-footers, firing a “blasting” gun for the first time, wince as from actual pain. Another, a wisp of a guy fires the same gun with no sign of distress whatever. There are none. Instead he breaks out in a broad grin. “Golly,” he says. “Hardly any kick at all. And it didn’t whip up into my face either the way a gun usually does.”

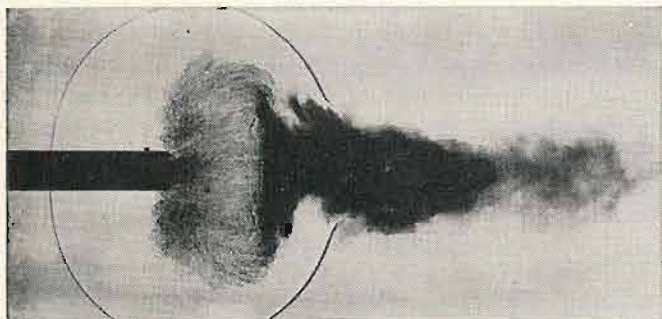
“How about blast?” you ask. “Didn’t it pop your ears?”

He shakes his head. “I didn’t notice. Had a kind of a whooshy sound, that’s all.”

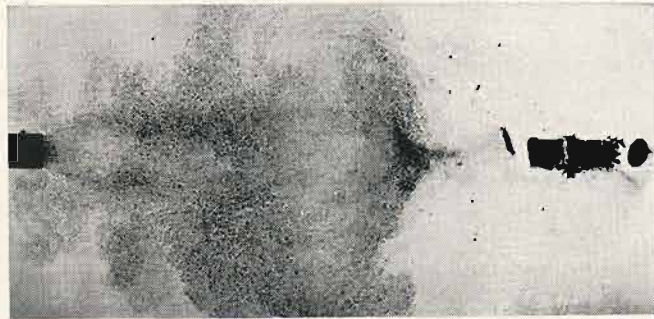
That about sums it up. To the highly sensitive, it is a demon that assaults his eardrums and leaves him demoralized in nerves and dignity. To the less perturbable majority, it is but a minor annoyance or (Continued on page 54)



Atkinson & Marquart magnum sets back from kick but recoil is curbed in .458 by gas ports in muzzle brake. Above, Stream-line pattern has partial shielding to reduce gas escape that may annoy some shooters.



Compression or shock wave moves out from muzzle in sphere causing blast effect when it reaches ears of shotgunner.



As shot charge exists, shock waves disperse, generally are reduced below pain threshold with most guns, loads.



LET'S LOOK AT

"The Big 20"

By FRANCIS E. SELL

THERE HAS BEEN a reversal of thinking among certain groups of duck and goose hunters within the last few years—and the direction of the trend brings screams of anguish from a vociferous horde of experienced wildfowlers. I report only what I have done and seen done, and if the thought of 20 gauge guns on honkers offends you, read no further: I sing of the "Big 20," the 20 gauge Magnum.

Not long ago, wildfowlers were teetotally 12 gaugers, except for those who swore by the 10 gauge Magnums. Now, an increasing number of wildfowlers, not all of them crazy, are using 3 inch shells in 20 gauge Magnums and dropping mallards, even geese, at respectable 12 gauge ranges. A lot of men (and women), convinced by experience of the effectiveness of the newer, more progressive powders behind 1 3/16 to 1 1/4 ounce shot charges, are getting an equal number of clean kills from their light, slender, beautifully balanced 20s as they got from their heavy 12s or even from their 10 gauge Magnums.

The "Big 20," even decades ago, before the inception of modern shotgun powders, has always had a loyal (if small) following. In those days, these fanatics had the L. C. Smith, the Ithaca, and the Fox doubles chambered for 3 inch shells, and they used 1 ounce or 1 1/8 ounces shot charges for upland and marsh shooting. Ridicule was their potion, but they drank it neat, firm in their own convictions. Many a gunner looked enviously at the slim, swift-swinging 20s, but the thought of 1 ounce loads appalled him. Today, with 20 Magnums handling 1 1/8, 1 3/16, and 1 1/4 ounce shot charges, the gunner can have his cake and eat it too—have his light, sweet-swinging 20, and eat the ducks he kills with it.

It has been conceded that the shorter the shot column in a gun, the less shot deformation and the higher the pattern percentages. Experts outline it something like this: 10 gauge, 80-85 per cent patterns; 12 gauge, 75-80; 16 gauge, 70-75; 20 gauge, 65-70 per cent—each quoted as the best expected pattern from full choked guns.

How much of this will stand up to the pattern board? How much is speculation and how much is fact? No doubt about it, that 1 1/4 ounce shot charge in a 20 gauge Magnum is a long shot column. But shooting is better than shouting, so I took these loadings to the pattern board for evaluation in an individual gun, where all ballistic factors could be



Calling in a high Yee above . . . Sell looks aloft as their cries echo down. He proves 20 gauge power, retrieves duck downed by Dakin double.



DO NEW POWDERS AND MORE SHOT MAKE THE 20 MAGNUM A WILDFOWLER? MANY SAY NO, BUT THE 12 WAS A PIPSQUEAK TOO, IN THE '80s

under strict control. I shot not only the various shot charge weights, but also the shorter, $2\frac{3}{4}$ inch standard 20 gauge shells in my 3 inch-chambered 20 Magnum. I even studied the question of using large shot—2s, 4s, and 5s, such as would be used in a 12 gauge for long range wildfowling.

Let's consider first that long shot column. Here are my loads, and my results:

TEST ONE

1 $\frac{1}{4}$ ounce shot charge, number 5 copper coated Western shot, 215 pellets to the load. Alcan cases, wads and primers. AL8 powder, 33 grains, folded crimp, wax seal, velocity 1250. 40 yards range, 30 inch circle, full choked barrel.

(1)	175	pellets	in	30	inch	circle	for	81	per	cent
(2)	175	"	"	"	"	"	"	81	"	"
(3)	174	"	"	"	"	"	"	81	"	"
(4)	190	"	"	"	"	"	"	88	"	"
(5)	180	"	"	"	"	"	"	83	"	"

Average for 5 shots, 83 per cent.

Note the uniformity from shot to shot. This same test, repeated, gave me an average of 82 per cent with these handloads. When shotgun loads give this type uniformity at a pattern board, ten or a hundred loads seldom change the results by more than a percentage point or two. Here, with this long shot column, I had a variation of only 16 pellets. Obviously, this gun shoots very high patterns with number 5 shot. But even so, if a short shot column would improve pattern percentages, 1 ounce of shot would go *higher*.

TEST TWO

1 ounce, number 5 copper coated shot, 170 to the load. Same gun. Instead of AL8, I used AL7 and a recommended powder charge for 1 ounce loads from the Alcan Company handbook.

(1)	143	pellets	in	30	inch	circle	for	84	per	cent
(2)	148	"	"	"	"	"	"	87	"	"
(3)	144	"	"	"	"	"	"	84	"	"
(4)	140	"	"	"	"	"	"	82	"	"
(5)	137	"	"	"	"	"	"	80	"	"

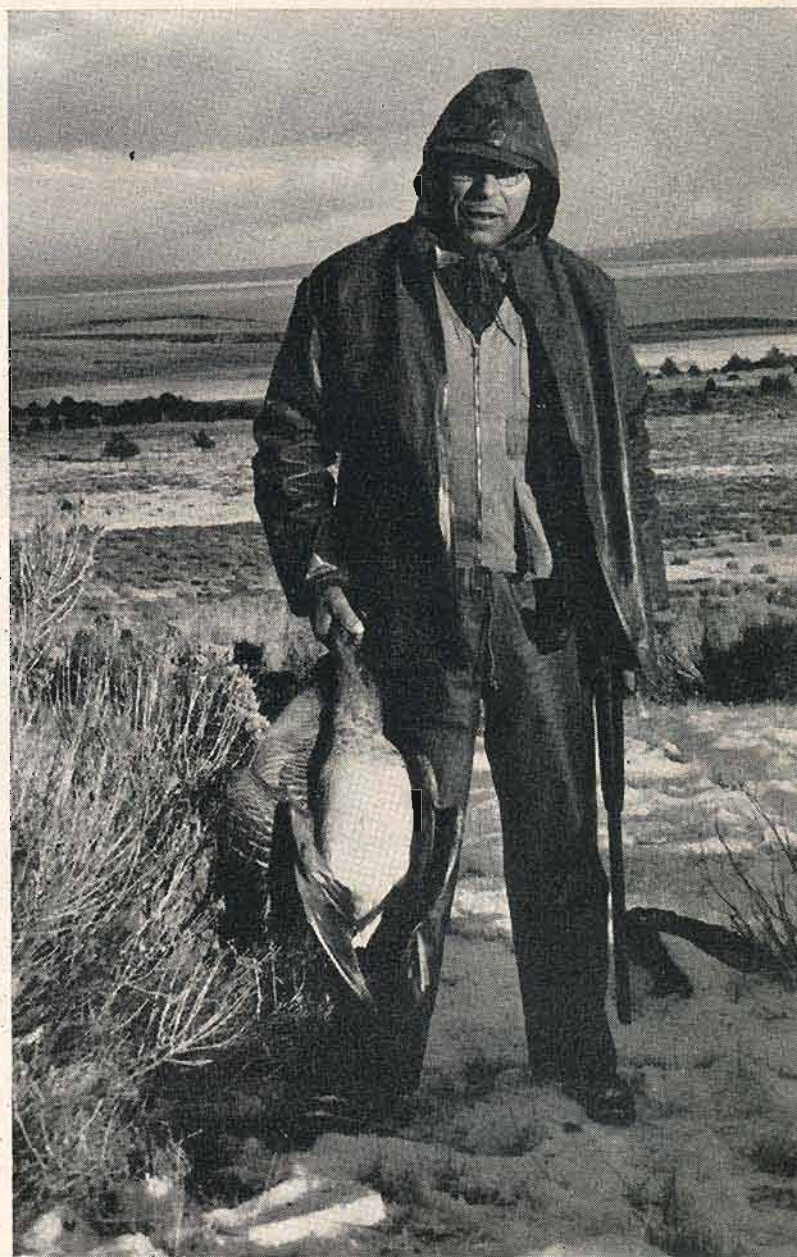
Average for 5 shots, 83 per cent.

I ran this test twice, with less than 3 per cent average variation, with less than a 10 pellet difference.

The next problem taken to the pattern board in connection with the 20 gauge Magnum was that of short shells in longer chambers. How about the same 1 ounce loading in the standard $2\frac{3}{4}$ inch shell, fired in the 3 inch chambers? Most shotgun authorities concede that a short shell in a long chamber reduces pattern percentages by as much as one choke designation—from full to modified, or from modified to improved cylinder. Indeed, one gun importer points this out as a practical (Continued on page 62).



Wide choice of wildfowl loads Sell checked using Alcan components in regular and magnum 20 gauge shells. Below, his rechambered 3" Magnum Marlin Model 90 O/U proves very successful on Canada geese.



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BABES AT ARMS

(Continued from page 25)

The inference, especially with the RPD as well as the Kalashnikov now being made in East Germany, is that there are plenty of these arms on hand for use when needed. And as for their use in training, well, it is much more fascinating to play soldier with real weapons than it is to play cowboys and Indians with cap-guns.

With the non-coms and officers of the People's Army serving as instructors, I watched between 300 and 400 young children receive familiarization courses on machine guns, pistols, automatic rifles, and small anti-tank and anti-aircraft weapons. They field stripped and assembled them, learned parts nomenclature. Firing blank cartridges to get the feel of the weapons, they practiced aiming at trees and at a huge sign upon which West German president Adenauer was roughly drawn. The slogan beneath his picture was, "Every shot is a hit into the heart of a NATO soldier."

Similar training assemblies take place all over East Germany. Officially, their purpose is "to prepare Youth to fight back any militaristic, imperialistic invasion from the West." The East German regime continually harps on the danger of a West German Blitzkrieg, and all propaganda and indoctrination revolves around this theme. The Red leaders are working on the tried and true idea that a foreign enemy always helps to justify certain regimentation, certain sacrifices, and tightens inner national unity. Though such meetings are regular, I could not determine exactly how often such training was given.

This Communist version of the Boy Scouts resembles the Nazi Hitler Youth, as it has for its goal the molding of young minds and attitudes through indoctrination and education along the lines desired by the state. For such pre-military training the children, both boys and girls, are assembled in special "homes." They are kept away from their parents as much as possible, minimizing parental influence and increasing the influence of the party-educators.

Pre-military training, such as I witnessed in the Young Pioneers Park, is an integral part of the school curriculum every week. Boys and girls receive preliminary rifle instruction with regular army rifles. Often, they use sketches of Western politicians to aim at, accompanied with slogans similar to one noted above.

Membership with the Young Pioneers is "entirely voluntary," according to the Communists; in other words, 95 per cent of the children belong to it... Such training increases in scope, detail, and length as the children enter High School. Here, actual firing and range practice begins and continues through University schooling.

By the time the "Young Pioneers" reach University age, they become members of the "GST," the Gesellschaft für Sport und Technik (Society for Sports and Technical Training). Also a "voluntary" organization, official counts claim 98 per cent of the students are members. Nobody dares refuse to sign up "voluntarily"...

Through the auspices of the "GST," the students receive full combat training. They are issued uniforms, and goose-step down Stalin Allee in Berlin and other East German cities. All phases of military instruction and tactics are covered: airborne operations and

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jump practice, armor and artillery, as well as continued small arms practice.

Training, consequently, is a must even for those who never belong to the armed forces. Thus, every young man is a potential soldier. He merely has to trade his civilian clothes for a uniform to become a fighting man. This training takes up to six hours per week and sometimes up to 40 hours is classified as "extra voluntary work."

Those young people who do not attend the Universities receive military instruction and practice in "Betriebsbrigaden," i.e. factory fighting units.

Such training as I watched was the first step of a system and program, aiming at complete militarization of the youth starting at the age of six and ending about 22.

Obviously, as long as such practices continue, the West must be extremely wary of disarmament offers from such a regime.



TARGETS FOR BUCK BUSTERS

(Continued from page 20)

lined-up and you start to squeeze, a puff of wind will bounce your balloon to another position.

Clay birds suspended from a string or wire make excellent off-hand targets for either handgun or rifle. Set them up so the birds will revolve, then set a time limit on the shots. Move back to 35 or 40 yds. and try to bust all five birds in ten seconds. Then try it in five. Each bird hit will dissolve into a satisfying puff of powder.

Another interesting game for either handgun or rifle consists of shooting at a series of steel discs of varying diameters. The series we use consists of a 1", 1½", 2", 2½", and 3" diameters. These were cut from ¼" steel plate with a power band saw. The discs are suspended from a wire on looped rods so that they spin when hit.

The majority of our shooting at these discs is done with the .22 handgun from 25 yards. However, 2 grains of Bullseye with a 115 grain wadcutter in the .38 Special does real well. We start with the 3" disc. The idea is to hit the 3", then the 2½" and so on down to the 1" size. Then, if all five are hit in succession, start with the smallest disc and work back up to the largest. Usually this game is shot on the "miss and out" basis, especially if using the .22 rifle.

Other cheap "bustible" targets are the sugar candy wafers about the size of a quarter. A roll of about 35 or 40 costs a nickel. These are stuck to a piece of cardboard with a bit of scotch tape on the back. At 15 to 20 yards they make an excellent target for the .22 and .38 handguns. Back off to 50 and use the .22 rifle. A solid hit and they simply disappear.

Recently my 16 year old and I have been using the handguns to harvest a crop of cottontails. As good practice for this type of shooting, we cut cottontail silhouette targets and pasted them on brown cardboard. These targets are then placed in the brush about the same as a live bunny would be. Shots are taken at varying distances. We find that this has sharpened up our pistol work very well.

All of this type of shooting is aimed at two objectives. The first is to provide targets that are a lot more fun; the second is to provide the shooter with more practice on moving targets under hunting conditions.



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The perfect little rifle you've all been dreaming about. Genuine Mauser Model 93, small carbines in the ever-popular 7MM Mauser Caliber. One of the smoothest and trimmest made at a price which now makes it available to one and all—only \$26.95. (\$4.00 select a special select one for you.) Turned down bolt, all milled parts, small ring stock, and 22" barrel—all yours for your prompt order. 7MM Mauser M.C. ammo, on

COLLECTORS! FIRST AMERICAN OFFERING!
Cal. 7.62 Russian



THE SHORT FINNISH MODEL 29/31 ONLY \$1695!

A Finnish rarity that rockets you into a rarified collector's roster. The rifle designed for the other side of the moon, but now yours to propel yourself into fits of shooting fantasia. A delightful little companion for the trip to the bushes you've been saving so long for. Fair to good and totally complete. Its entire length—only a 24" barrel to assure practically no sighting aversion. The perfect addition to even the most wily collections and at a give-away price of only \$16.95. You'll probably insist on a matched pair at absolutely no more than double the one rifle price! Order from this ad today for promptest delivery ever.

FAMOUS 7MM MEXICAN MAUSERS AT
Cal. 7MM Mauser



The Model 98 Small Ring Mexican Mauser. ONLY

Ye Old Hunter has finally cracked Mexico and at what delight to American shooters. . . and deluxe, small ring Model 98 Mexican Mauser in 7MM caliber at only \$27.95 (Only \$1.00 additional if we select a special good one for you.) Not \$49.95 as others for, but a mere \$27.95. Shoots the famous effective 7MM cartridge available everywhere and bargain M.C. loads available from Ye Old Hunter at only \$6.00 per 100 rounds. 75,000 left so be sure to order NOW to protect YOURS. Order from this ad for the prompt

THE 1960 OLYMPIC BIATHLON MASTERPIECE
Cal. 7.62 Russian



(A Real Supremeski) \$1495!
THE RUSSIAN MODEL 91. ONLY

THE MOST AMAZING FIND OF OUR TIMES. Authentic Russian Infantry Rifles in the rare model 91. The unbelievable rifle that won five out of the first six places in the 1960 Winter Olympic Biathlon event at Squaw Valley. Test your own accuracy with this Olympic Special. Guaranteed in good serviceable condition and devoid of all communist rust, for inexpensive capitalistic shooting. A hazardous find that shattered the shooting world, and what mayhem for our global competitors who tried to bludge Ye Old Hunter out of this cache. Thanks to an underground waterway, shooting is now yours in the popular 7.62 Caliber—only \$6.00 per 100 rounds. Insure your Russian "Supremeski!" with a prompt order today!

TODAY! THE GREAT CZECH BRNO 98 M
Cal. 8MM



The Czech VZ 24 Short 98 Mauser. ONLY

One of the most desirable Mausers ever made and in great demand everywhere particularly you know. The famous, and rare BRNO 98 Mauser. All milled parts, superb workmanship, and after 231/2" barrel make this the find of our age. The international firearms trade at hand in envy over THIS Ye Old Hunter find, and what a break for you Mauser fans. . . . gem in tight working order and life still left in the barrels, and at below action alone while this stupendous find is still on hand, 8MM Mauser M.C. ammunition only \$6.00

A STUPENDOUS ARSENAL CRACKED AT LAST!
Cal. 6.5MM



(A Supremo Special) \$995!
THE FABULOUS ITALIAN TERMINI MODEL 91. ONLY

Millions of this incredible weapon that blasted its way to inglorious defeat on mountain, land and beach. The price victory is still yours, however, at this fantastic \$9.95! Others advertise this very model at two and three times this price, but don't be misled by unshobatable fancy names, fancy claims—give them the old Italian boot and order from Ye Old Hunter for the best, as always, for the least. You'll be surprised at the time involved to return these to fully presentable condition. Selected specimens only \$3.00 additional. 16.5 Italian ammo in clips only \$3.00 per 100 rounds. Order now, before these giveaway prices go still lower! Remember, Ye Old Hunter always brings the best for the least!

BEAUTIFUL GERMAN-MADE ARGENTINE MA
Cal. 7.65MM



The Rifle That Must Be Actually Seen To Be Fully Appreciated. ABSOLUTELY "NEAR MINT" ONLY

All milled parts. Select Walnut stocks. Fine natural finish (5 shot mag.—no clip required)

Never, NEVER, NEVER! has such a Mauser bargain been available. UNBELIEVABLE, else but YE OLD HUNTER it would be unbelievable. You've paid more for hula hoop MASTERPIECE. Buy now while they supply lasts. THINK OF IT—an original German rifle in ALMOST NEW condition throughout, manufactured in the prime vintage year of (naturally) ALL MILLED PARTS AND TRUE BLACK WALNUT STOCKS and the best Superb olympic accurate 7.65mm (.30) MAUSER rifle cartridge. Buy and enjoy forever BEAUTIFUL MAUSER EVER MADE—ONLY \$4.00 More if we select an OUTSTANDING Original German long blade Mauser Bayonet and Scabbard: only \$1.95. Caliber 7.65mm (Cal. .30) Only \$6.00 per 100. Caliber 7.65mm 60FT PT. (Hunting) Ammo Only \$3.45

BACK AGAIN—ONLY BECAUSE OF POPULAR DEMAND!
Cal. 6.5MM



(A Supremi Value) Complete! \$995!
GARRIBALDI'S GREATEST—THE FAMED 70VY SNIPER RIFLE with 50 Rds. looking (not shooting), ammo. ONLY

This unprecedented inaccurate specimen (the rifle that put the word "sport" back into shooting) available for the last time, and just to please you who never anticipated its astounding demand. The very rifle that prompted the buying (and selling) panic of 1958, yours again—this very day. The most unique attempt at weaponry ever attempted—your friends will marvel at your taste. Totally complete and workable in every detail—the perfect gift for friend (or enemy). A decorator's delight, for behind the door display. Memorize yourself endlessly with its spaghetti grained stock. All for only \$9.95. Today.

THE MOST DRAMATIC PRICE REDUCTION I
Cal. .303



Now—only

THE FAMED ROYAL ENFIELD No. 1, Mk III

Cash in today on the most astounding bargain EVER, before Ye Old Hunter wakes up. . . . finds out what he's done. The pride of the British Army from 1900 to Korea NOW at GIVE-AWAY price of only \$9.95! Almost too fantastic to believe, and luckily so, of Hunter might not have escaped a howling lynch mob of competitors already at his heels give-away bargains. Order yours today while this price is still in effect. Original list only \$1.25 when ordered with rifle. A truly incredible bargain. Make sure you cash in

IMPORTANT SALES INFORMATION—PLEASE READ CAREFULLY: All guns and ammo shipped RAILWAY EXPRESS OR TRUCK (Shipping Charges Collect) from Alexandria, Va. or Culver City, California. (California residents include 4% State Sales Tax on Culver City shipments.) Send check or Money Order. DO NOT SEND CASH. Sorry no COD's. "Money's Worth or Money Back" guarantee when goods are returned prepaid within two days after receipt. Ye Old Hunter will not answer ascrimimonous letters. Send them elsewhere. Sales limited to continental United States! World's Biggest Arms House—World's Lowest Prices.

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YE OLD WESTERN HUNTER • 11033 W

R'S BARGAINS

WESTERNERS! Save transportation costs! Order direct from Ye Old Western Hunter, 11033 Washington Blvd., Culver City, California, for immediate shipment. Also VISIT Ye Old Western Hunter for the greatest selection of shooting bargains ever found west of the Rockies. Immediate service.



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expense, no SACRIFICE was too great to bring you today, "SERVICE THAT NOW SPANS A CONTINENT. The fantastic bargains depicted below are available now to ONE and ALL, and only a few miles away. Depending on where you live, RUSH your order this very day, EAST or WEST for the promptest service EVER imaginable!

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SAVE
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THE GREATEST RIFLE OFFERING EVER . . . ANYTIME . . . ANYWHERE!

Genuine, Original (made at Springfield Armory) M-1 Garands



"THE FINEST RIFLE EVER MADE" \$7995!
All Milled Parts—All Matching Numbers

M-1 GARANDS (Cal. 30-06) and only

Yes, Ye Old Hunter, the Guanabana Buddha of the gun traders of the world, begins a new year and new decade with the greatest rifle bargain ever found . . . a gigantic shipment of "The finest rifle ever made" . . . yes, tens of thousands of ORIGINAL GARANDS, all in v. g. or better condition, all manufactured by SPRINGFIELD ARSENAL (no cheap contract jobs), all in the world's greatest cartridge, .30-06, and all at a price EVERYONE can afford . . . just a mere \$79.95. Now you can throw away those old Krags and rough Springfields you've been paying so much for from others, and step up and enjoy the best of 'em all, the great Garand, and hike away with Ye Old Hunter's bargain .30-06 M.C. ammo—only \$6.00 per 100. Order today from this ad to insure yours promptly.

ACCESSORIES:
New Leather Slings only, \$1.95
New Web Slings only, \$1.00
Original 8 rd. clips only, 10c

U. S. ARMY MODEL 1917 CALIBER .30-06 RIFLES!!

Cal. .30-06



ONLY \$2995!

Virtually unfired . . . fresh from government cases.
All milled parts. All N.R.A. Very Good - or Better!

TIRED OF PAYING OVER \$40 FOR A U.S. ARMY .30-06 RIFLE? So was Ye Old Hunter, so he went out and now brings you this "SPACE AGE" SPECIAL and U.S. ARMY MODERN .30-06 RIFLE GIVEAWAY WITHOUT PRECEDENT! The latest and best model U.S. Army bolt action .30-06 rifle, virtually ANY cartridge but it already shoots the BEST OF 'EM ALL, the fantastic U.S. .30-06. . . (A few "like mint" selected specimens on hand for you ultimate Model '17 seekers at only \$5.00 additional). Genuine Leather Military Adjustable Slings Only 50c. Genuine Model 1917 Bayonet \$1.75

Bargain U.S. made MC ammo only \$6.00 per 100.

WINCHESTER M95 BARRELED ACTIONS!

Cal. 7.62 Russian



ONLY \$2995!

ORIGINAL WINCHESTER MODEL 95'S!

Stock your own lever action dream rifle! The most sought after lever action ever—the famous Winchester Model 95 and in the rimmed 7.62 Russian caliber. The rifle designed for both left and right hand shooting. Spend endless hours on the range shooting from either shoulder. Teddy Roosevelt's favorite model, yours today at a giveaway price in fair to good condition. Select your favorite wood to design the rifle you've been dreaming about. Original mistreated wood thoughtfully discarded to save you time and anguish. 7.62 M.C. ammo with clips only \$6.00 per 100. Soft Point 7.62 ammo only \$14.75 per 100.

WINCHESTERITES! The Spanish "Tigre" M92 Saddle Carbine

Cal. 44-40



ONLY \$3995!

The famous Spanish "Tigre" M92 Winchester.

Here it is! The Spanish made Model 92 Carbine in Caliber 44-40 and in tight, clean shooting condition and ready to go at \$39.95! Others have charged \$75.00 for this model only short months ago, but now, in an exclusive deal with Spain, Ye Old Hunter jockeyed his rapacious competitors to the wall and fled aboard ship with these treasures that won the Spanish West. Limited number in almost mint condition at only \$10.00 additional. Also a few rare, rare Spanish Border Police Saddle Ring Carbines with 17 1/2" barrel (now perfectly legal) at only \$49.95 and \$10.00 additional in select condition. The find of the year!

THE INFAMOUS FRENCH M 1916 MANNLICHER!

Cal. 8MM Lebel



ONLY \$995!

The French Model 1916

Never before available on the U.S. Market since others feared to offer this value because of the disruptive effect on competition; but Ye Old Hunter has finally opened France and brings you the great rifle of the French Army from Verdun to Algeria at only \$9.95! This super accurate P.L.N. pacifier is still proudly on duty at DeGaulle's Palace in Paris and throughout the collapsing French Colonial Empire. The rifle that has done 50 million Frenchmen wrong is yours today for less than the cost of freight from Paris. Plenty of 8MM Lebel Ammo in stock at only \$6.00 per 100 rds. Do not delay on this here one!

INCREDIBLE AMMO BARGAINS

MINIMUM ORDER 100 ROUNDS. All prices below per 100 rounds. All ammo must be shipped R.R. EXPRESS. SHIPPING CHARGES COLLECT. Sensational New sensational prices! Save, save, save

PISTOL	
.25 AUTO (WINCHESTER, LATE DATE).....	\$ 5.00
7.62 NAGANT (M.C.)	\$ 5.00
7.63 MAUSER (PISTOL M.C.)	\$ 5.00
7.65 MANNLICHER PISTOL (M.C.)	\$ 4.00
9MM LUGER (PARABELLUM) (M.C.)	\$ 4.00
9MM LUGER (NEW, NON-CORROSIVE)	\$ 6.00
9MM F.N. STEYR PISTOL (M.C.)	\$ 4.00
.45 (A.P.) COLT AUTOMATIC (M.C.)	\$ 5.00
RIFLE	
6.5 JAP (M.C.)	\$ 6.00
6.5MM ITALIAN IN CLIPS (M.C.)	\$ 3.00
7MM MAUSER (M.C.)	\$ 6.00
7.35MM ITALIAN IN CLIPS (M.C.)	\$ 5.00
7.5 SWISS SOFT POINT (20 rds.)	\$ 3.95
7.62x39 RUSSIAN SHORT (M.C.) (20 rds.)	\$ 4.95
7.62 RUSSIAN (M.C.)	\$ 6.00
7.62 RUSSIAN SOFT POINT	\$14.75
7.65MM (.30) MAUSER (M.C.)	\$ 6.00
7.65MM MAUSER SOFT POINT (20 rds.)	\$ 3.45
30 CAL. M1 CARBINE	\$ 5.00
.30-06 U.S. M2 BALL IN 5 rds. CLIPS	\$ 6.00
.30-06 BLANKS	\$ 4.00
U.S. .30 (.30-40 CALIBER) KRAIG (M.C.)	\$ 5.00
CALIBER 303 BRITISH (M.C.)	\$ 7.50
303 BRITISH SOFT POINT	\$14.75
303 BRITISH BLANKS	\$ 4.00
8MM GERMAN MAUSER ISSUE (M.C.)	\$ 6.00
8MM LEBEL (M.C.)	\$ 6.00
.42 COLT BERDAN RIFLE (M.C.)	\$10.00
.43 (11MM) REMINGTON (M.C.)	\$ 5.00

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

WORLD'S GREATEST PISTOLS! WORLD'S LOWEST PRICES!

Order from this ad!
(Send permit if your state or city requires)

COLLECTORS! SPECIAL!
PAIR—ITALIAN GLISENTI REVOLVERS CAL. 10.35MM



First time available at less than collector prices! Italian Glisenti Revolvers in both the folding trigger (Patent) type and also the military (WWII) type only \$17.95! for the PAIR. Order today while this super bargain lasts. **COMPLETE PAIR ONLY \$17.95!**

BÉRETTA .32 AUTO PISTOLS



Today's top pistol bargain. Absolutely in excellent condition, Beretta's Auto Pistols, complete with leather holster only \$22.95! Incredible but true! Now. **ONLY \$22.95!**

MILITARY MAUSERS
Cal. 7.63 Mauser



Genuine, excellent, 6.3 Mauser Pistols, in stock for immediate shipment. The most precise pistol ever made. Perhaps never again available. Very good conditions only \$44.95! A few absolutely select ones \$5.00 additional.

RARE MANNLICHER PISTOLS
Cal. 7.65MM



Now! Genuine, original, rare, Mannlicher Automatic Pistols at only \$19.95 in very good condition. A few excellent \$21.95. The most racy auto design ever. 7.65 Mannlicher Pistol ammo only \$4.00 per 100 rounds. **ONLY \$19.95!**

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Many Forestry & Wildlife men hunt mountain lions - parachute from planes to help marooned animals - save life of injured campers - protect forests - arrest game violators. Adventure, public service, good pay.

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Conservation careers are permanent. No layoffs. No worry about your paycheck. Living costs are low, too - and a government pension assures good income for life when you retire.

HEALTHFUL OUTDOOR LIFE. Hard muscles, bronzed skin and vibrant good health are extra rewards of outdoor living. Sleep under the pines. Catch breakfast from icy streams. *Feel and look like a million!*

OPPORTUNITIES IN YOUR STATE?
We show you how to seek out job openings in your own state and other states. Costs no Coast. Age limits 17 to 45, sometimes older on private game farms and hunt clubs. We are not connected with the Government.

MANY START \$3000 YEAR OR MORE
Fine starting pay, with regular advances established by law.

VACATION JOBS FOR STUDENTS
No experience or preparation needed for vacation jobs in Nat'l Parks & Forests. America's vacation wonderland. Many accepting Applications now. **FREE BOOKLET** tells how and where to apply.

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Please rush FREE facts on Forestry & Wildlife opportunities, FREE booklet "Vacations with Pay" - also your FREE "Select-a-Job Chart" details. All postpaid and no obligation to me.

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Member: Association of Home Study Schools, Washington, D. C.

(Continued from page 37)

Along this line, any rifleman who is fortunate enough to be in jackrabbit country has one of the best built-in moving targets ever devised. When kicked out of the sage-brush, this long-legged, mulc-eared caricature of a kangaroo really affords the rifleman a chance to show how good he is. Miss this bunny with the first shot, and he'll slip into a gear that compares to a spooked antelope. A little of this rabbit shooting will show that a rifleman has to be a darned good judge of lead and range to connect regularly.

Another target we have used to help smooth up the operation of getting off a quick second shot is some two pound coffee cans. One of these is filled with water. The lid is pressed on and another can is placed on top. The idea is to center the bottom can with a high-speed soft point slug. The resulting hydraulic explosion will usually blow the top can high in the air. Try to work the action of your rifle and perforate the flying can before it hits the ground. A word of caution is necessary here. Be sure of your background on these shots, so that no one is endangered.

As far as rifles are concerned for this type of shooting, nothing special is required. For economy of shooting, a lot of this practice can be done with a .22. However, if you handload, work up a good accurate cast bullet load for your deer rifle. With the .243, I use an 85 grain cast bullet with 20 grains of Ball "C" powder. In my Model 70, this load shoots dead on at 50 yards with the same sight setting as my 100 grain Hornaday hunting load at 100 yards. With the Model 94.30-30, I shoot a 150 grain cast bullet with

30 grains of #4895. This load shoots about the same as 150 grain Silvertips, or as close as I can hold with iron sights.

I prefer cast bullet handloads rather than the .22 because they allow me to practice with my big game rifle. And it is just about as economical. However, if you use a .22 for this practice, try to use one with the same type of action as your big game rifle. Here is where the lever-action fans shine, for the Marlin Model 39 is just the ticket as a substitute for the lever action centerfires.

Most of the targets and games I've outlined herein are used to develop the skill to shoot accurately as well as quickly, a skill vitally important in all forms of big-game hunting. This is well accomplished by the running deer and pop-up targets as described. A good shot will progress to the point where he can center any of the silhouette targets in four seconds, and with lots of practice, in three.

To round out big game practice, the hunter should do a good bit of field shooting on live targets. All of the varmints provide excellent practice. Woodchucks, marmots, pikas, and prairie dogs give the hunter all the range estimation and wind allowance he needs for long range shots on his big game. These targets are wary, elusive, and small enough that it takes a good shot to score consistently at ranges of 200 yards and over.

Remember that the only way to develop into a good shooter is to shoot. The more the better! Use your big game rifle as much as possible. Vary your targets and ranges, get lots of practice, and you'll be more sure of connecting when that trophy buck pops up out of the brush.

**FOR BETTER BATTER
GET A BETTER
BATTER BEATER!**

**FOR BETTER BARRELS
GET
ULTRARIFLED BARRELS**

**THE BEST PRODUCTION MADE
RIFLE BARRELS**

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

- Highest Quality
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- Stainless Steel
- Chrome-Moly Steel
- Timken (17-22-A5) Steel world's longest wearing barrel steel for express cartridges.
- Button Rifled since 1953
- Finest Inside Finish
- Record Holding Barrels
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- Most Calibers 20 to 450

Write for free descriptive data.

*Patented T. M. Reg. Made Exclusively by G. R. Douglas.

**COMING!
BUTTON RIFLED
MUZZLE LOADER BARRELS**

The G. R. Douglas Company takes pleasure in announcing that it expects very soon to have available the first production-made muzzle loader barrels. These barrels will come in two different weights, and up to 42" in length. Calibers: 36, 40, 45 and 50. The Douglas Company, whose name is synonymous with the finest workmanship and quality, will have these as a standardized line—a first in this type of craftsmanship. We will be glad to send you details or answer any question. As in the case of its other gun barrels, Douglas means Dependable.



G. R. DOUGLAS CO., INC.

5504 BIG TYLER ROAD CHARLESTON 2, W. VA.

SAFE LOADS for FAST GUNS

(Continued from page 29)

vincing hole in a paper target.

Meanwhile, for the guy who lives in an apartment, or in a small home in a residential area, here's the chance to get in some shooting without driving to the range. Fifteen feet or so of space is all that is needed, and using the wax loads is quite an improvement over dry-fire practice where live ammunition would be out of the question.

Well aware that police officials and fast-draw cranks had been asking for a manufactured training and practice cartridge for some time, Colt approached Chaylie (eq) L. Saxe, president of the Albany firm, last October with the problem of developing the ammo in plastic. For the past 10 years, Saxe brothers has been moulding refrigerator interior hardware, trays and such, of plastic. And Dow Chemical Company's linear high density polyethylene, used for regular Saxe products, was picked for this unique job.

Engineers from Standard Oil of New Jersey entered the picture to provide the right wax for the bullet. And by January, the Saxe firm, handling most of the research and development but working closely with Colt, had the first experimental rounds ready.

During the next three months, this initial ammo saw extensive test-firing by Colt, by selected police units, and by a few quick-draw experts. Shooters' recommendations went back to Albany and by April, Saxe was ready to begin production, by hand, of the 42,000 samples—30,000 of them .45's—that Colt wanted ready for introduction to its dealers in late June.

(Continued on page 43)

LIMITED SUPPLY
ONLY \$14.95



Cal. 11MM
GENUINE REMINGTON ROLLING BLOCK
THE PERFECT SHOOTER AND DEN DECORATOR
Complete as shown. All have been reconditioned to look almost new.

ATTENTION COLLECTORS:

Rare 1897 Model 30 Jap Rifles
We have a small quantity of these rare 1897 Model 30, Cal. 6.5 Jap rifles. A collectors' gem; never previously offered for sale. Some rust but all are in "fair" condition. Chrysanthemum still untouched. Only \$11.95 while limited supply lasts. Add \$3.00 for select grade. (6.5 Jap Ammo \$7.50 per 100 rounds).

SHOOTERS & GUNSMITHS:

BARRELED ACTIONS

Mauser '98, Small Ring, Short action, Cal. 7MM, barrel fair. \$24.95
Springfield 1903 or 1903-A3, good boxes, trigger guard and floor plate missing. \$29.95
P-17, Enfield—30-06, Very Good. \$27.50
#1 MK III Enfield—308, Good. \$ 9.25
VZ24 '981 Czech SMM—Actions good; barrels fair to good. \$27.50
Complete \$27.50
Win. Model 95, Cal. 7.62, barrel fair. \$27.50
44-40 Cal. Win. '92 type, TIGRE, Saddle carbine, fair barrel. \$24.95

PARTS: We specialize in spare parts. (Minimum order \$3.50). Send postal for quotation on your needs.

WEBLEY FLARE PISTOL
Only \$6.95

Cal. .25MM. Short barrel with 3 flares. Additional flares 50¢ each. Ideal as a boat flare or for celebrations.

ALL ITEMS SHIPPED EXPRESS CHARGES COLLECT. Send \$5.00 minimum for COD express collect shipment. For free list, enclose large stamped addressed envelope.

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P.O. Box 35—200 S. Strand St.
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(We buy & trade. Dealer Inquiries Invited.)

11 MM Ammo: Misfires to be expected.
Loose, per 100 rounds\$6.00
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Decorate your Den at LOW, LOW COST

Sollingen Steel Swords—made in Germany:
Officers Sword with Scabbard\$11.25
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Special: Both for just \$18.00

7.92 Kurtz Ammo MP-11 backed in elips. 20 rds to a box. ONLY \$7.50 per 100
8 MM Mauser, issue ammo, loose \$5.50 per 100. 7.92 Russian Issue ammo, loose. \$5.75 per 100.

COLT .45

MODEL 1911 or 1911-A1

\$39.00



Same gun rebuilt, hand fitted, \$44.95. With micro sights, complete \$59.95. All in good condition.



LAST OF DEWATS

Chausat, Good\$19.95
*Accessory Kit FREE with each Dewat.

The Pistol
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Friends
will envy...

**High Accuracy and Hitting Power
Perfect Balance
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The MK1
Air Pistol

Ideal for teaching elements of shooting, these pistols give endless pleasure to both young and old. Their accuracy and efficiency, typical of all Webley Products, makes them the finest Air Pistols in the World.

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ONE OF THE WINDSOR GROUP OF COMPANIES



Catalogue
on request

MASTERPIECES

OF THE GUNSMITH'S ART

... yet they cost less than most ordinary guns!



Take the strongest, smoothest actions of the world's master gun-makers — the most accurate and finely finished barrels that American craftsmanship can produce — perfectly proportioned and beautifully grained stocks of rock-hard genuine walnut protected with exclusive "Firekote" finish that enhances the beauty of the wood and permanently seals out moisture to stabilize barrel bedding and guarantee accuracy and handsomeness for a lifetime.



Jefferson

Combine them, and if they dazzle the eye, excite the pulse, deliver accuracy, performance, dependability and value far exceeding any other guns in their price range — then they're bound to be Jeffersons.

Now you can select your Jefferson from among these exciting new pre-tested models:

MODEL 158 IMPERIAL-GRADE HI-POWER (A). Calibers .243, .270, .308, .30-'06, .300 H&H Magnum, Fabrique Nationale 400-series bolt action, Damascusened bolt, 24-inch sporter barrel of heat-treated 4140 chrome-molybdenum steel, fancy figured coco-bola-accented black walnut stock, roll-over cheek-piece, receiver drilled and tapped for standard American scope mounts and receiver sights. Superb finish, many other fine features. \$189.95 retail.

MODEL 458 LIGHTWEIGHT 12-GAUGE PUMP-ACTION SHOTGUN (B). Performs beautifully with all 2¾" shells, including magnums. Four-shot capacity, choice of 26" improved-cylinder, 28" modified choke, 28" full-choke quickly interchangeable barrels. \$89.95 retail. Additional barrels \$22.50 each.

MODEL 159 .22-CALIBER AUTOLOADER (C). Fifteen-shot, lightning-fast, handles all long-rifle cartridges, regular or high-speed, receiver grooved for tip-off scope sight mounts, positive cross-bolt safety. \$44.95 retail. Four-power achromatic telescopic sight with tip-off mounts, \$10.00.

MODEL 158 DELUXE-GRADE HI-POWER. Same general specifications and features as Imperial Grade, except: polished (rather than Damascusened) bolt,

22" barrel on all calibers but .300 Magnum, which is 24", fine-quality stock without coco-bola accents. \$129.95 retail.

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MODEL 257 SPORTER. Similar to Model 359, but chambered for .22 shorts, longs and long rifles, hi-speed and regular. \$19.95 retail. Four-power achromatic telescopic sight with tip-off mounts, \$10.00.

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(Continued from page 41)

In early August, some \$20,000 worth of automated equipment went into full-scale production of the cartridge at Albany.

Dow Chemical Company, whose recent advances in plastics research and development made the polyethylene cartridge possible, staged the first unveiling of the important new product in mid-June at Midland. Officers from the city police department, the Midland County sheriff's department, and Dow's own plant protection staff were invited, with press representatives, to try the special ammunition.

There is no conceivable way in which the wax-loaded ammo could be confused with live rounds. The cartridge is fire-engine red, and the rim carries the words "Colt .38 Wax," or "Colt .45 Wax." And the training round is far lighter in weight than the wad-cutter or round-nosed version.

As far as calibers are concerned, Saxe says it could produce the ammunition in any center-fire size, should the demand necessitate it. Indications are a .32 caliber wax-loaded cartridge may be made next.

Temperature range of the wax pellet—which has a slight tacky feeling to the touch—is from 65 degrees below zero to 165 degrees above. That should take care of most situations in which the new ammo will see use. The plastic case itself tends to be a bit on the slippery side. This is not from a presence of wax on the case—which there isn't—but from the inherent nature of the polyethylene.

Handgunners will find the plastic cases good for at least three or four reloads. After that, the shoulder of the rim may fail. But cases have been reloaded as many as six times successfully.

Neither the .38 nor the .45 version produces any appreciable recoil. But the larger .45 primer puts more punch behind the wax bullet, which is somewhat heavier than its .38 Special counterpart, and these two factors seem to result in improved accuracy, plus a little better feel in the hands of an experienced shooter. Primers used in the samples are standard for the respective calibers, but with the above in mind, a larger primer, and possibly a heavier wax pellet, are being considered for the .38.

Recommended shooting distance for the wax-loaded ammo is 15 to 20 feet, and you can get reasonable accuracy at that range. By reasonable . . . a policeman who had whirled, drawn and fired six shots double action could tell without a doubt if he had felled his man. But don't expect tight groups, all in the black. It might be possible, but that's not what the ammunition is intended for.

A few misfires were experienced during trial shooting at Midland, and one case ruptured—the first such mishap experienced in test use of the new product. But these pre-production samples had primers inserted by hand, as well as hand-pressed wax bullets. Fully automatic production will eliminate nearly every chance of similar malfunctions.

Use of the wax-loaded ammunition appears to have little or no effect on the bore of your handgun. If anything, occasional firing of the training cartridges may help to keep the weapon clean.

As an important aid in firearms safety, this plastic ammo will readily be welcomed throughout the nation. And as one Eastern law enforcement chief said, it is one of the greatest police training devices yet.

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BIG RAM OF JOB PASS

(Continued from page 23)

have said anybody claiming kills at those ranges was a liar. Since then my Big Ram of Job Pass has taught me a little more respect for long range shots, and a little more understanding of just how chancy, never to be attempted, except in special circumstances, such shots are.

Correctly sighting in the rifle can make possible an intentional long shot, though when the lead-slinging was over in my case I felt that Lady Luck had aligned the sights, too. I zeroed the Magnum 3" high at 100 yards; the same with the .30-06. With 180 grain factory loads the Magnum bullet would drop to recross the line of sight at 250 yards, while the slower .30-06 would hit point of aim at 225. The principle is to zero the rifle at the longest possible range that will not cause mid-range misses because of bullet rise in its trajectory. The charts I fixed to each rifle are typical, and show what every hunter should memorize about his rifle and the bullet and load he plans to use:

Sighting Charts For Andy Anderson's .30-06 and .300 H & H Model 70s

.30-06 Zero 225 yds. 180 gr. bullet	
25 yds.	0" (225 yds. 0")
50 yds.	+1" (300 yds. -9")
100 yds.	+3" (350 yds. -18")
150 yds.	+3" (400 yds. -32")
500 yds.	-72"
.300 H & H Zero 250 yds. 189 gr. bullet	
25 yds.	0" (250 yds. 0")
50 yds.	+1½" (300 yds. -5")
100 yds.	+3" (350 yds. -12")
150 yds.	+4" (400 yds. -18")
500 yds.	-55"

Following the zero setting, my wife and I practiced estimating game distances in terms of how many football fields lay between us and the mark; and we practice fired at ranges up to 300 yards with one sight setting to learn how much to hold off in order to hit where we wished. The routine has paid off handsomely: my wife, as a beginner, can claim nine one-shot kills of 13 big game trophies, from five species including moose, goat and elk, without having lost or wounded one single trophy. The redhead now claims the most species and the largest total bag of any huntress from the Lone Star State. The lessons she has learned are proved worthwhile. I wonder, did Diana have red hair?

Phil Templeton had brought our little party into rugged, shale-covered slopes leading up to a jagged hogback west of Job Pass. We could see out over the rough limestone peaks typical of that area. Here I was destined to bag my "big ram" and somehow, I felt even at the beginning of the hunt, that this was to be a special event.

Undulating to the north-east lay tier after

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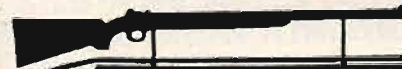
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tier of precipitous granite-like mountains, while just north of the pass rolled the tumbling tributary called Job Creek. Far to the east, from our lofty position, we could look into a picturesque valley sheltering an emerald lake while sixty miles beyond loomed the ghostly, frozen dome of Columbia Glacier, in Jasper National Park. We had climbed to this point off the beaten track to look into a hidden valley of which Phil had talked, untroubled by man. It was here we hoped to find "that special ram" for which we had searched for days. Musing thus, I better understood Phil's remarks concerning the extra effort it took to bag a ram, and it occurred to me, as it had on many previous occasions, that there is a lot more to any hunt than merely pulling the trigger.

From my reverie, while glassing the up and down terrain to our left, I was suddenly brought to attention when Phil muttered, "There are sheep topping out of that pocket a mile or so below us; see them?"

Bringing the 7x42 Hensoldts to my eyes I glassed the area, saw at first four close together feeding on the edge of the grassy pocket, then five more to the left. More important, I could see some interesting curls. . .

"Some big rams there," I remarked with vigor. "Uh-huh," grunted the old sheep hunter, "but let's see if any might be what we want."

So saying, he unstrapped the Bushnell spotting scope which was always with him. For it he carried 20, 40 and 60-power eyepieces. The extra eyepieces proved worth their weight in gold in usefulness during the first week of this trip, and I became convinced any man after a real trophy sheep shouldn't be without them. Now he set the scope up between us, and settled down for a look.

"The sheep above is a pretty fair ram, the only one that might interest us," he said. "Want to take a closer look?"

I did, and we moved out. Luckily, a ridge fingered down from a point to our right, and passed the pocket where the sheep grazed, to shield us. After an hour of rough going, Phil finally worked up behind a huge boulder, then took a further look. He set up the scope again, and we both surveyed the little band.

Withholding my own opinion, I queried him: "Well, what do you think now?"

Phil ducked down out of sight of the sheep, turned to me thoughtfully. "All but two are legal, and the big one is not bad. I believe he'll do thirty-seven or better," and he tossed the decision right back: "How does he look to you?"

"He's a nice ram," I answered after a further searching look through the scope, "but
(Continued on page 48)

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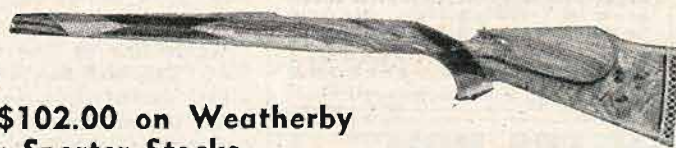
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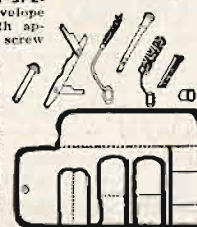
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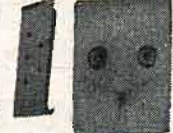
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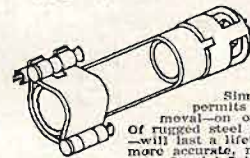
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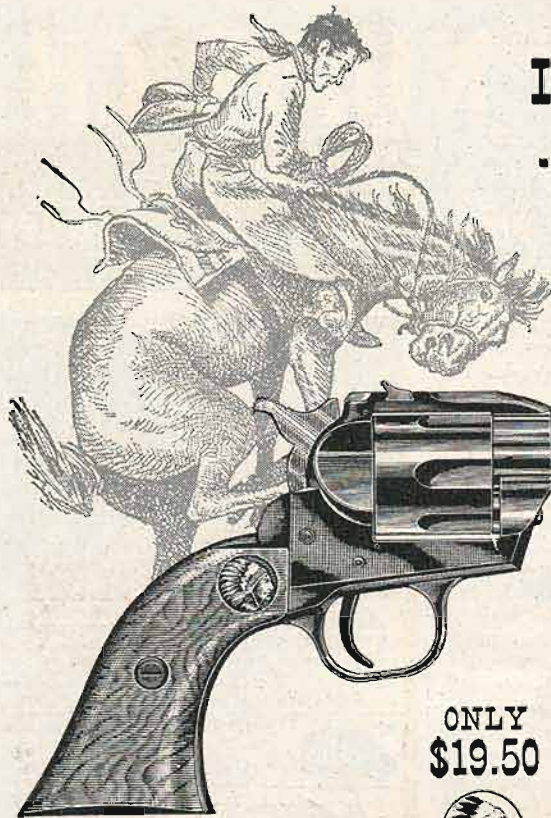
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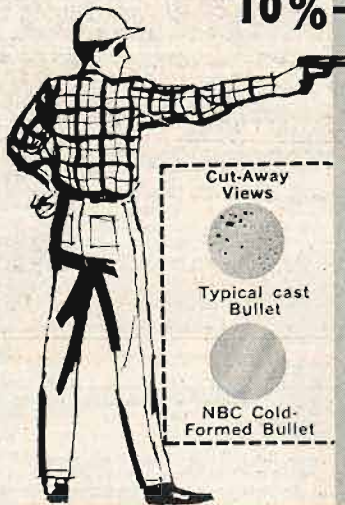
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(Continued from page 45)

he's not what I came after." Phil smiled happily. "I think you want to pass him up," he grinned, "and I'm glad you're a sheep hunter. I know it's hard to pass up a nice one after all the mountain climbing and hunting we have done on this trip, but I believe you'll be happy you did."

We took some telephoto movies of the peacefully grazing nine and, on the way down to camp, were later astonished to find a second flock of thirty. But 'scoping proved them to be ewes, lambs and young rams. They were a sight to set the blood to racing, but nothing for the hunter to worry about. Back at camp, Mable greeted us with an inquiring "What luck, sheep hunters?" But seeing forty or more sheep, colorful as it made the day, was not the reason for the hunt.

In the days that followed we saw sheep often, but still couldn't seem to locate the big one. Then, one cloudless morning, I crawled out of my sleeping bag, somehow knowing this would be the day. After breakfast, Phil and I took the trail just west of camp to climb through the timbered switchbacks and, shortly thereafter, breaking out into the open, headed nearly due north to the benches and broken terrain and the peak of Job Pass. As we studied the country ahead, toward Coral Creek and picturesque Coral Falls tumbling down the steep cliffside, we knew that just beyond there would be a new perspective, a new vista of the country.

We had passed the falls when, suddenly, Phil reined back behind a rocky outcrop. His eyes flashed a warning. We dismounted. Crawling ahead a short distance, Phil trained the spotting scope northwest and up. Soon he changed to the 60X eyepiece, then, with that gleam in his eye, muttered, "Ease over and take a look."

I bellied slowly over behind the scope and expectantly peeked through that potent piece of glass. Though probably a thousand yards away, the great big horn ram, object of years of planning and weeks of hunting, loomed large as a locomotive when magnified sixty times!

Now that we had him in sight, getting the ram posed problems. He lay contentedly chewing his cud, facing south. From his commanding position, he overlooked the entire basin. Thirty feet above the big fellow lay a 3-4ths curl legal ram facing the north. A fly could hardly have moved in their basin without being seen by either. Phil judged the heavily broomed, massive horns to be under 40 inches but over thirty-eight. In his opinion, it was a ram to make the Boone & Crockett records, due to the massiveness of the horns from base up. It was only ten o'clock, so we studied the great ram leisurely.

"He is definitely a sheep of which the most meticulous hunter need not be ashamed," I at length concluded, "so let's try to take him." Saying it was one thing. But it took two hours and fifty minutes to place myself in a position to shoot.

To go right or above, would have revealed us to the sheep. Instead, we backtracked to the waterfall, then north up a draw to keep out of sight. One hour later we had done this but eventually came to an opening which, while around 800 yards from the animals, had to be passed. To cross it left us in plain sight of the sheep.

"What do we do now?" I queried, and Phil replied, "Put your sling across your chest, gun over your back; keep close be-

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hind me and make like you had four legs." We cautiously crossed the open space, slid behind cover and peered around the other side, hardly daring to breathe. But our quarry was still in sight, still gave no recognition he knew we were anywhere around. Over confident, I began to doubt the tales I'd heard of the sharp eyesight of mountain sheep. . . .

Like skirmishers in combat, we rested a moment; then moved out to a low ridge beyond waist-high willows, that was our second stopping place. It would shelter us from sight of the sheep at perhaps 500 yards. Stopping for a breather, Phil motioned to a big boulder some 300 yards above us and stage-whispered, "If we can make it up there we should be about 200 yards from the rams."

Though the shot would be uphill, that was a fair distance, a rifleman's distance for the sensible sheep hunter. I was forgetting for the moment that one didn't have to be crazy, but it helps.

All went well for the first twenty or thirty minutes as we belied very, very slowly upward. The young ram had taken little interest in the two human worms which he must have seen on the hillside. When he would look directly at us, we would freeze until he turned his head again. Now I was getting fairly close to the spot from which I would have a fair shot, when it happened!

Suddenly, he was on his feet. I knew it was now or never. Still crawling, but rapidly, tiny stones making miniature avalanches as they pattered loose where I stepped, I was able to spot the old boy with his companion, alert on his feet and looking our way. The sheep were still so high above me it was difficult to shoot from prone. But I knew the distance was at least 400 yards so I dared not try one offhand and couldn't shoot sitting on that slope.

As I struggled into the sling, Phil flopped beside me with his binoculars glued to the rams. A second after I squeezed off the shot he exclaimed, "You were right in line but just a hair behind him!"

The sheep took off fast, climbing still higher angling across to our left. I kept throwing lead and my target went down on his nose after the third shot. But he scrambled to his feet and was away again as I fired the fourth of the 180 grain Remington pointed soft-points that had been in the magazine of my Magnum, but without results. Partly reloading, I shucked a fresh cartridge into the chamber and just then the sheep hesitated a moment at a place Phil estimated to now be a good 500 yards. I knew this shot had to do it.

Although shooting prone was well-nigh impossible at such an extreme upward angle, I held an estimated four feet high, knowing the rifle was zeroed at 250 yards, and with this bullet would drop 4 1/2' at 500 yards. When I squeezed the trigger this time the rear end of the Lyman All-American scope backed into my shatterproof shooting glasses as the butt of my rifle slid down under my arm due to the impossible angle from which I had been forced to shoot. The glasses rammed into my eye and all I saw were stars.

Before I could see again Phil clapped me on the back and yelled, "Boy, you got him; he sure went down hard!"

"Thank God for that," I thought, "it sure was a lucky shot."

We learned as we taped his horns that the third bullet had struck the back side of the

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right horn and lodged there permanently; the killing bullet was square between the horns in the back of head, quartering away from us.

The bases of the massive horns were each between 15 and 16 inches, with good measurements also at first, second and third quarters. Length was slightly under 40". Phil guessed it might have been as much as 45", if unbroomed. My big ram was the one all sheep hunters dream about getting, one that had provided action and thrills in the stalk and a happy, successful climax. Certainly this was a quest for the toughest to get trophy I have ever taken out of over 100 head, covering 14 species, of North American big game.



HOW TO LICK MAGNUM FLINCH

(Continued from page 27)

and cripples.

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Here's what "magnum" means, in rifles: A standard .30-06, weighing 8 pounds, loaded with 180 grain bullets ahead of 57 grains of powder and driving that bullet at 2750 feet per second, will have a recoil of 18.5 foot pounds. Sighted for 200 yards, the bullet will hit about 3 inches high at 100, 9 inches low at 300, and 24 inches low at 400 (with variations for bullet shape, individual rifle, et cetera.) But the bullet drop between 400 yards and 500 will be another 25 inches—as much as for all of the first 400! At 500 yards, the bullet will hit more than four feet below the aiming point. That's why I've always considered the absolute outside range of the .30-06—270 group of rifles to be 400 yards—and then only in the hands of highly skilled shooters.

Now let's boost that load to 70 grains of powder and 3000 foot-seconds, and what have we added? About 75 to 90 yards range without changing the trajectory arc; about 8 pounds of recoil; and the word "magnum." Boost this 180-grain bullet with 80 grains of powder to 3350 fs velocity, and we have 36 foot-pounds of recoil, another 75 yards or so of range without altering the trajectory-curve; and a typical, blown-out, maximum .30-caliber "magnum."

Here is the misleading factor: By making the above .30-06 a magnum, we have not increased the reasonable "outside" range of 400 yards to 475 yards and 550 yards respectively. In a *practical* way we have, rather, flattened the trajectory, increased the remaining energy where the game is, and made those distant shots at the outside limit of reasonable range more likely to kill if

(Continued on page 52)

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(Continued from page 50)

they are well placed; but the reasonable maximum range is still within 400 yards.

Why?

Simply because with magnums, as with standard high-intensity cartridges, the bullet-drop from 400 to 500 yards still approximately equals the entire drop for the first 400 yards. Add this to the proportionate decrease in size of a game-target at beyond that range, and most hunters, under hunting conditions, cannot hold solidly on any of our big-game except the very largest species . . . to say nothing of the difficulties of range-estimation at such extreme distances, the lack of upset in bullets beyond 400 yards, and similar, practical hunting obstacles.

Experience has convinced me that the great value of magnum calibers is that they improve performance *within the limits of a reasonable field-range.* This advantage, in today's big-game hunting, is a valuable one. For its benefits we pay with more cost, more noise, 8 to 15 pounds more recoil, shorter barrel-life, and a constant temptation to flinch.

The same thing applies broadly to shot-guns and pistols. If we want to add ten yards to 12-gauge Old Betsy, in order to take long-range Honkers instead of pheasants, we can poke in a 3-inch shell (in suitable chambers), boost the recoil in an 8-pound gun to 40 foot-pounds, soak up the kick, and be happy about it. Personally, I am happy, if there are ganders about.

Similarly, we can make virtually low-powered rifles out of such pistol cartridges as the .357 and .44 Magnums.

What has this up-grading of power done to the average shooter? Too often, as Bowman says, the unsuspecting hunter buys the word "magnum," expecting it to cover his personal lack of ability, and there is disappointment all around.

There are sensible remedies. Here are the basic procedures for hunters headed for the big-game fields with a magnum outfit:

First, do not make your first high-power rifle a magnum. "Graduate" from a .22, to a center-fire varmint job, and next to such a caliber as the .243, .250 Savage, .257 Roberts, .270, or .30-06. Such a reasonable gradation in kick, blast, and expense helps greatly

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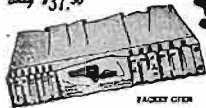


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GUN OF THE MONTH

(Continued from page 30)

carbine, are all chiseled in romantic figures, and gold inlaid. The carbine had a single selective trigger for the four barrels, while the pistols were ivory stocked. The screw-driver handle and loading mallet were also ivory. Sometime, perhaps during World War I or WWII, these fine arms were taken away; by whom, nobody knows. Only one bullet mould is left in the case. Today the handsome box is preserved by the successor of Lepage, Faure-Lepage, who as a matter of curiosity would like to know if any of these pieces have survived the years in the hands of gun collectors. Are any of these guns in America today? If so, perhaps their owners do not yet know their important heritage. GUNS will be glad to assist in authenticating these arms for their present owners.

(Continued from page 52)

in preventing that hard-to-cure bugaboo, flinching. It prepares one for a magnum.

Second, shoot this moderately-powered caliber at least 100 times from a bench, at targets, pests, or something, during that year just prior to the anticipated purchase of a magnum rifle. Decide on this basis if you can physically and psychologically "take" a magnum.

Next, do not buy or use any magnum-calibered rifle not equipped with a good recoil-pad, a good personal stock-fit, and considerable eye-relief in the scope.

If you are of medium or small size, if your shooting experience is limited, or if you've developed any tendency toward flinching choose your first magnum of under .30-caliber. One such as the .257, .270 or 7 mm magnum will have less back-fire, require less adjustment on the part of the shooter, and will do its part on North American big-game if you do yours.

If your first magnum must be your only one, then the sensible procedure is to get at least that above-100-rounds of experience, with reduced loads not exceeding the oomph of standard big-game calibers. Hunters able to own magnum rifles can afford such custom loads, either by purchase or by rolling their own. With a back-log of 100 shots, it's no great jump to full-power hunting loads, with the same rifle, without any mental fear of it.

Finally, any magnum user, veteran or novice, should complete the program by shooting at least 100 rounds of the same full-power loads he intends using on game, and do it in the months just preceding the hunting season. The last 20 should, if at all possible, be fired at running-game targets, or simulated, pasteboard game targets set up in safe shooting areas approximating field-cover and shooting conditions. Study all targets used in such practice. If the groups are tight, the game-targets punched in vital areas, and you've no tendency to fear the magnum or finch, then and only then are you really ready to take that rifle afield. The rounds of practice will pay off handsomely in the single shot or so you'll need at game. And, more important, with this amount of experience you'll never even feel recoil during the actual game-shooting.

On the other hand, if after this faithful pre-practice you do flinch, or are afraid of the Big Bad Bang, there's only one logical thing to do. Sell the magnum, go back to a lesser standard caliber, and limit yourself to only those field chances where you can certainly connect well. Make up in precise bullet-placement what you may feel you lack in the lesser rifle's range and horse-power. By doing this, you'll come home with more game, killed cleaner, and with a lot more satisfaction than your friend who takes his beautiful magnum to the hills, but is secretly scared stiff when she goes off.

In conclusion, and to show that the big magnums do have a vital place in the hunting field, here's what happened to me per-

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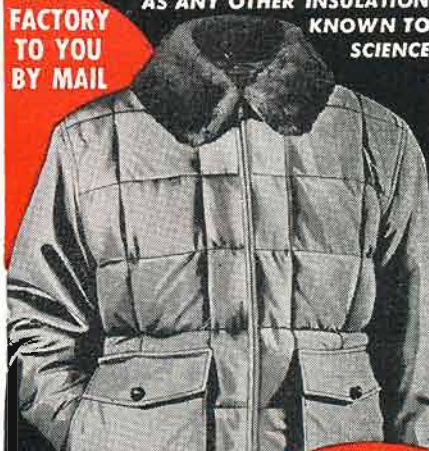
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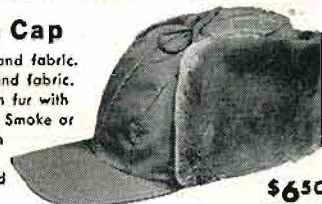


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sonally on that above hunt with Les Bowman:

I wanted only a trophy bull elk with large head. Les guided me into a remote region where there were such bulls. But all timber was below, snow covered everything, and there was literally no way of getting close to one of those wary, trophy-wise beasts.

I had one of those big, bad magnums—a 7x61 Sharpe & Hart, with 160-grain Norma loads at 3100 fs velocity, and a 6-power Leupold Scope. I'd hunted such game for thirty years, into much the same type of terrain, and pretty well knew what to expect.

At the very outside of the above 400 yards range, with a 24-inch over-hold and an additional six-inch hold into the wind, (rifle sighted on the nose at 200 yards the day before on Les' range), shooting from prone, I got that whopping six-pointer perfectly through the chest. He dropped, dead. A lesser cartridge couldn't have been depended upon to do the job.

When Les saw the bullet-pierced heart, after Don Welden, the guide, had opened the animal, he said with a grin "Sure, accidents *do* happen. Even with magnums!"

BRAKES, BLAST, AND BRUISES

(Continued from page 33)

none at all. Some seem completely impervious to it. Because blast is such a personalized equation, organically and psychologically, it will probably never be resolved entirely.

But in terms of its effect on the average shooter, the blast of muzzle brakes has been greatly exaggerated. A few abnormally sensitive riflemen (and gun writers, vocal beyond their number) have built it up into an ogre that has scared off millions who could shoot better (*and more comfortably*) with brakes than without them. Some of the harshest criticism against brakes has come from competitive target shooters—a mere handful compared to the multitude of big game hunters, varminters, and plinkers—not so much because of annoyance to the one behind the gun as to adjacent ones on bench or firing line. But this same objection holds good for unbraked guns also. Blast is always more disturbing to a nearby competitor than to the one firing the gun.

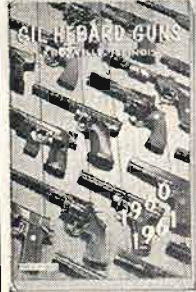
How potent really are these shock waves? Can they actually do physical harm to the shooter, or are they just temporarily annoying to those who have fussy ears?

The greatest sonic boom recorded from a jet plane, I read recently, created a pressure wave of less than .23 of a pound per square inch. Medical authorities commonly estimate that it would require more than 15 times that pressure to rupture human eardrums. The shock waves set up by the most uninhibited brake would be far below those set up by a close sonic boom, or by the clap of a nearby lightning bolt. Such shocks may be startling; they are not damaging.

Many occupational workers—jet plane men—
(Continued on page 57)

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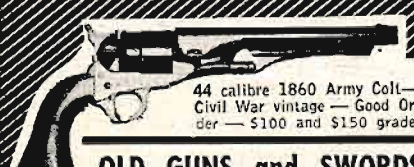
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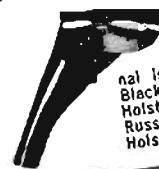
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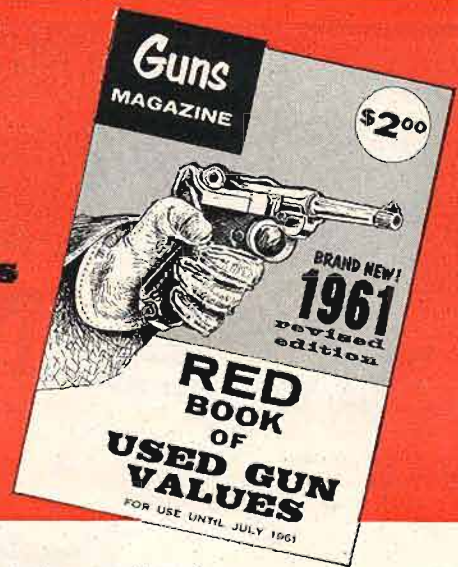


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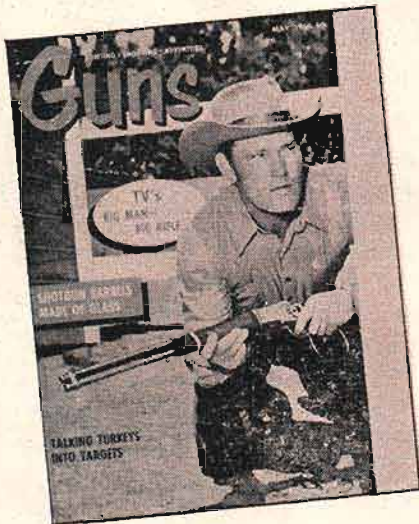
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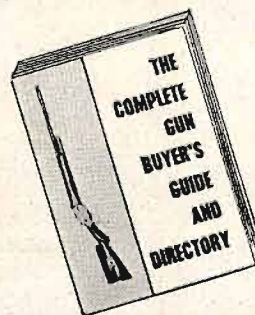
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(Continued from page 54)

chanics, missile men, miners, and others—have to put up with much rougher shock waves than any muzzle brake can dish out. In a hardrock gold mine where I worked during the lush thirties, when blasting was near and heavy or when high-hanging stopes caved in, these shock waves were sometimes so severe as to upset your sense of balance. I experienced this many times, and saw others stagger too. I have yet to see a muzzle brake come near to doing that to anybody. But even with this constant and massive hammering—plus the infernal din of jackhammers, stopers and liners grinding away at rock, open air-hose blast and muck thundering down oreways—there was a comparatively low incidence of hearing loss in that mine. I was told it was under four percent, and many had worked at mining all their lives. I was among the casualties. But I took fully three years of this constant battering by the no-see-ums before my hearing was seriously impaired. Human ears, even hyper-sensitive ones, are remarkably durable instruments.

In spite of hearing loss now, I'm about as sensitive to pressure waves as ever, for hearing or the lack of it has nothing to do with susceptibility to shock waves. But after that mining experience, when somebody tells me that the tiny shock waves he gets from a muzzle brake are murdering him, I cannot get very excited about it. I don't believe the worst muzzle brake ever offered commercially, could, in a lifetime of intermittent shooting, do permanent damage to anybody's hearing.

But even to those to whom blast is a problem, a good muzzle brake offers many compensations. One hunter up in the Alaska Panhandle expressed this nicely. Against my advice, he had cut his .35 Magnum barrel back to 20 inches before an integral brake fitting. He said he needed it that short to get through the tangled alder and devil-club thickets. When I asked him about blast some time later, he admitted it boxed his ears a bit. "But so what?" he asked. "My ears ain't all of me. That gun used to kick my shoulder black and blue and wop me in the face. That's part of me, too. Now, when blast gets rough after 50 or 100 rounds of range firing, I just stuff cotton in my ears and keep on shooting. Out hunting, I never even notice it."

I suggested that, for his bench work, he should get a set of sonic ear plugs, of which several good makes are available. These give complete protection against hard shock waves or violent noises while permitting conversational tones to come through normally. Many competitive shooters wear them habitually on the firing line. They are a real boon to tender ears.

It has always seemed incongruous to me that critics of muzzle brakes should tell us it is "unmanly" to seek relief from a gun that clobbers you brutally with recoil, but quite masculine to quail before a puny little shock wave that, at worst, can do no more

(Continued on page 60)

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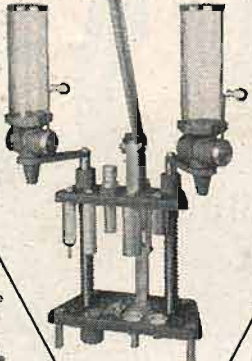
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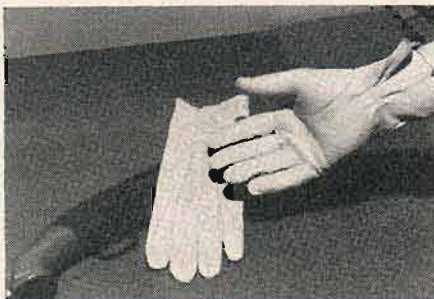
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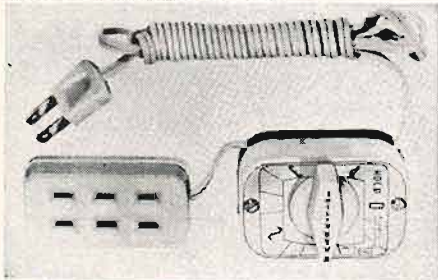
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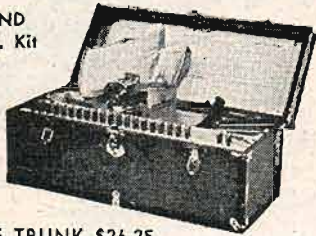
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(Continued from page 57)

than ring your ears a little.

This brings us back to the critic mentioned earlier, who stated that braking would be doubled if gas exhaust from the brake were turned straight back.

Since any kinetic braking from reversing gas flow from the brake ports would have to come from counter jet thrust, such a theory becomes absurd. Rocket force is the product of the volume-pressure-velocity factors of generated gas, and when forward velocity of gas is stopped dead by the brake-head and the pressure is greatly down from peak, its re-acceleration potential upon emergence from the brake ports is at a very low level as far as reverse use of rocket force for kinetic braking is concerned.

But the function of a modern muzzle brake is not confined to kinetic braking alone. Theoretically (though in practice this is impossible), a brake could deliver 100% of kinetic braking potential yet be only about half a brake in point of possible performance. This is so because jet thrust in all faster calibers becomes an increasingly higher percentage of the total recoil. And if rocket effect is not prevented (it cannot be influenced by kinetic braking), a brake would give very low relief from recoil punishment no matter how effective its kinetic action.

Forestalling of rocket thrust is therefore a most important consideration in brake design. Properly made, a brake will do this almost completely. In fact, jet thrust is the major controllable factor of the total recoil momentum by any practical size muzzle brake, because bullet acceleration recoil can be snubbed only moderately by anything short of a monster megaphone brake.

The principle of efficient muzzle braking is almost wholly a matter of internal gas action—transmission of kinetic counter-action to recoil against the brake-head and forward root areas of the ports—plus forestalling of rocket thrust that would result if high velocity gas were allowed to escape at high pressure through the bullet exit. The old controversy about the merits of reverse versus neutral angle escape (or even slightly forward when exhaust is direct) has little meaning in respect to the performance of a brake.

Why then, if external blast has only a very minor effect on performance, should there be any more of a blast problem with a braked gun than one without brake?

There would be less of a problem, if it were not for one thing: size.

Brakes could be built, by going to near-car-muffler contours, that would suppress exhaust noise and turbulence far below that from a conventional barrel and still retain full potential recoil control. But any indirect escape brake, given enough expansion room to prevent back thrust and quick loss of efficiency, would be so bulky and heavy as to make it totally unacceptable. It would foul up badly, whereas direct-escape brakes are self-scouring and need no more attention than an unbraked barrel; and it would be outlawed by federal statute as a "silencer." But fortunately, such "silencing" brakes are not needed by the big majority of riflemen. The average user has learned to expect, even to like, a certain amount of noise. The crack of a high power rifle ring-

(Continued on page 62)

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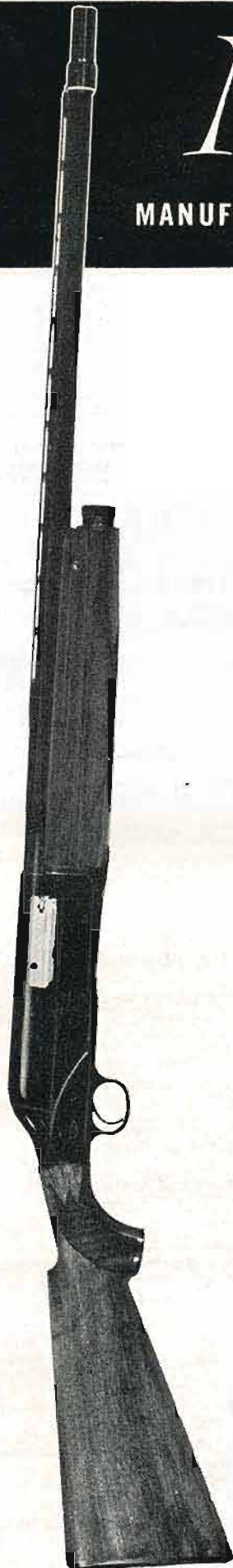
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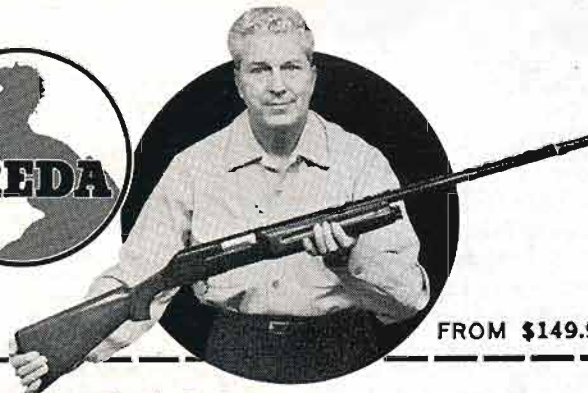
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Deal with Confidence.

(Continued from page 60)

ing out in crisp autumn air has something electrifying about it that quickens the pulse and puts zest into the sport of hunting.

The crux of the problem of muzzle brake blast, as it affects the one shooting the gun, is to turn the inner vortex wave from brake exhaust aside enough so it will not hit him directly. A relatively small deflector will do this. A pilot model of a quick-detachable deflector on a factory ramped muzzle is shown herewith. For plain muzzles, a clamp-on type would have to be devised. Such deflectors are hard to machine to correct shape but could be easily die-cast or stamped. Weight is negligible, and so is braking loss.

With the present trend for light guns in powerful and ever faster calibers, shooters in increasing numbers have become acutely recoil conscious and are demanding relief. Nothing in sight can give this relief like a good muzzle brake. The beautiful thing about muzzle brakes is that the faster the caliber the better the brake takes hold and controls jump. As their first shortcomings are eliminated, one by one, and their many merits become better known, they will get more and more popular. Muzzle brakes definitely are here to stay.

A LOOK AT "THE BIG 20"

(Continued from page 35)

means of having more open patterns for upland coverts when using a double with 3 inch chambers.

My test loads in the 2 3/4 inch shells had the same powder and amount of powder as that used for the 1 ounce loading in the 3 inch cases; the same number 5 copper shot, same primers. Same gun, same full choked barrel.

Test Three
 1 ounce, number 5 copper coated shot,
 2 3/4 inch shells.

(1)	149 pellets in 30 inch circle for	87%
(2)	137 " " " " " "	80%
(3)	136 " " " " " "	80%
(4)	130 " " " " " "	76%
(5)	133 " " " " " "	78%

Average for 5 shots, 80 per cent.

There is only a difference of 3/4 of 1 per cent when you compare these short shell results with those obtained with 3 inch shells in 3 inch chambers. Only difference to be remarked is the slightly wider spread of shot count in the 2 3/4 inch shells, from shot to shot. But even this only amounts to a 19 pellet spread, and is exceptionally uniform by any standard. Certainly there is no one-choke-designation difference.

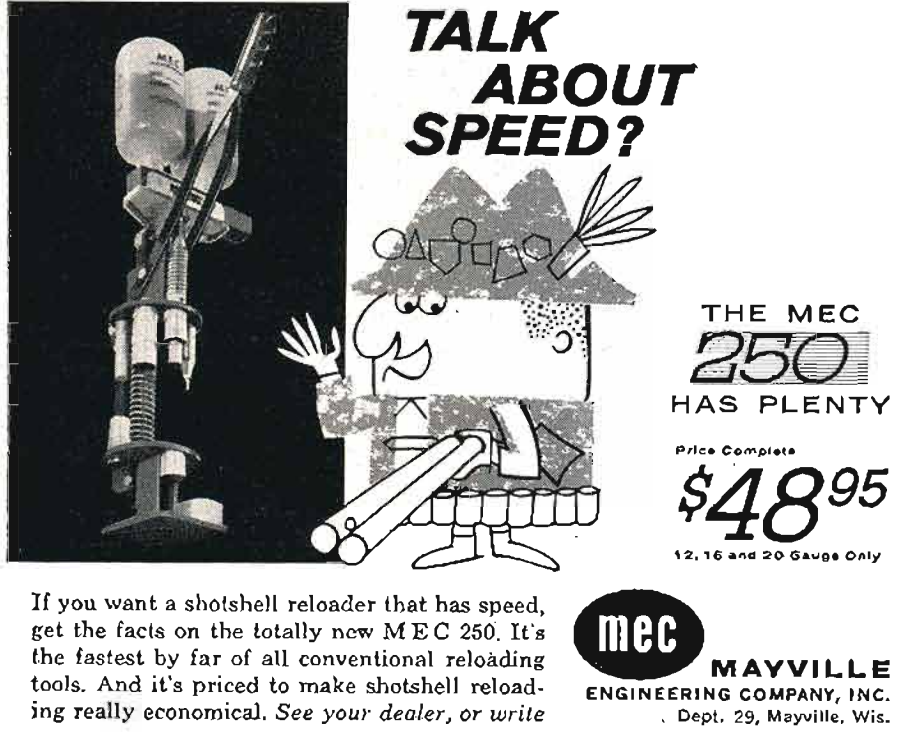
All this, to my way of thinking, is all to the good. There are many wildfowling and field shooting situations where a 1 ounce shot charge in a 2 3/4 20 gauge standard shell is sufficient for clean kills—decoyed ducks, close and medium range pheasant shooting. And what a beautifully mild load this is to shoot!

But how about the longer ranges? Is the 20 gauge Magnum, using 1 1/8, 1 3/16, and 1 1/4 ounce shot charges, a duck and goose gun? For pass shooting, where the larger size shot is used, how does the 20 gauge Magnum stack up against the recommended pattern density for a long range 12 gauge?

Usually, a long range wildfowling gun is at its best when patterns reach 80 per cent

(Continued on page 64)

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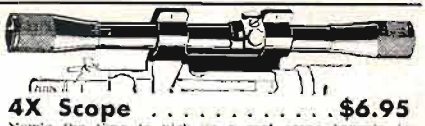


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(Continued from page 62)

or more with 2s and 4s. This is a long way from that much touted 95 per cent pattern requirement of an 80 yard gun. You'll have to search the gunning literature of the past several decades closely to find any authority recommending shot sizes larger than number 6 for a 20 gauge. According to the experts, number 2s and 4s cannot be thrown with anything like acceptable long range patterns, from a 20 gauge. But here, again, the pattern board gave some startling, though not unexpected, answers.

TEST FOUR

1¼ ounce number 4 Western copper coated shot, modified barrel, 40 yards, 30 inch circle.

- (1) 145 pellets for 86 per cent
- (2) 140 " " 83 " "
- (3) 140 " " 83 " "
- (4) 148 " " 89 " "
- (5) 138 " " 82 " "

Average for 5 shots, 84 per cent.

Here, the same percentages thrown with number 5 shot are maintained with 4's. But there is a significant difference: it's a modified barrel (or improved modified, depending on your classification of a barrel which normally throws around 60-65 per cent with 7½, 7, and 6's, as well as 5's). This, incidentally, indicates the need for special choking in a gun designed to throw larger size shot with long range, densely centered patterns—unless you shoot a double. Then often, the barrels are reversed patternwise, with the modified throwing the higher percentages with 4's and 2's, and the full choke barrel giving anything from improved cylinder to modified percentages.

Percentages with number 2's in my 20 gauge Magnum, while not as good as either 5's or 4's, still indicated a fair long range wildfowl loading.

TEST FIVE

Number 2 Nickel coated shot, 1¼ ounce shot charge, AL8 powder, 33 grains. Modified barrel.

- (1) 82 pellets for 73 per cent
- (2) 85 " " 74 " "
- (3) 86 " " 76 " "
- (4) 85 " " 74 " "
- (5) 84 " " 74 " "

Average for 5 shots, 74 per cent.

Now, for some conclusions: First, review the history of the 1, 1½, and 1¼ ounce shot charges. At one time, these were the popular loadings in none other than the 10 gauge. They served about every gunning purpose, from upland to decoyed ducks to pass shooting Canada Honkers—with the proper shot sizes. Later, gunners found that these shot charges handled just as well in the smaller, more slender-tubed 12 gauge. The 12 gauge not only delivered the same ballistic efficiency, but was a lighter, more dynamic gun—one yard faster to point than the 10 gauge. The big bore was on its way out.

Then, in the uplands, where ruffed grouse thundered out of the thickets to the chagrin of all slow gunners, the light 20 gauge came in for more and more attention. At this time,

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the standard 20 gauge shot load was $\frac{7}{8}$ ounce. Even so, with $7\frac{1}{2}$ shot, pattern density could be maintained at all reasonable ranges; and the slender tubes of a 20 gauge double were even better natural pointers than the 12. Guns sloughed off a pound or more of weight. A gunner could have a light double 20 weighing $5\frac{1}{4}$ - $6\frac{3}{4}$ pounds, with very light recoil and qualified for all upland field shooting.

Inevitably, the 20 gauge came to the marshes. Even with the light $\frac{7}{8}$ ounce loading, it proved a wonderful snipe gun. On decoyed ducks, when the chokes were kept full and modified, it turned in excellent performances. With the coming of the $2\frac{3}{4}$ inch shell, and 1 ounce shot charge, it became an excellent duck gun. But many hunters wanted heavier shot charges, and now they can have them.

The 20 gauge Magnum, taking over the most popular as well as the most efficient 12 gauge loadings, stands to become increasingly popular. It would be rash to predict that these loadings, which the 12 gauge inherited from the 10, may, in the 20 gauge Magnum, eventually replace the 12 gauge; but one thing is sure: the 20 gauge Magnum handles all these loadings with ballistic efficiency as good, if not better, as does the 12.

In the Lower Klamath Basin of northern California, I shot the 20 gauge Magnum on both geese and ducks for a season. This gunning was composed of about equal parts of pass and field shooting—no decoys used. Ranges rubbed the 40-60 yard mark. For several days a snow spitting gale blew across the tules, sending the birds over the marshes close to the grass. Shot opportunities had to be exploited in a matter of seconds or the chances were lost. You needed a fast gun—one capable of getting on target at once, but also capable of reaching out beyond the 50 yard mark on occasion, though the larger share of the gunning was around 45 yards. The 20 gauge Magnum I used, weighing $6\frac{1}{4}$ pounds, with 28 inch barrels bored full and modified, measured up to every field demand.

On rough, blustery days, I used number 4 shot, $1\frac{1}{4}$ ounce loadings. When the storms abated, I used number 6 shot for ducks, same weight shot charge. For geese, my loadings were $1\frac{1}{4}$ ounce of 5s, 4s, and (as an experiment) 2s. I didn't particularly care for size 2 shot. It took geese, sure; but not with the efficiency of 4s with their average 84 per cent patterns.

The pellet count of $1\frac{1}{4}$ ounce of 2s is only 112, and this in a 74 per cent pattern is not dense enough for a Canada Honker. The pattern must be centered for a clean kill. There is nothing to go and come on—nothing to allow for off-centered patterns.

Number 4 shot, with its 84 per cent pattern, extended the range on geese to a full 65 yards. While number 5 shot gave excellent results on both geese and ducks to solid 60 yard ranges.

These are 12 gauge ranges. As a matter of fact they exceed the average 12 gauge range of over-the-counter guns, throwing the

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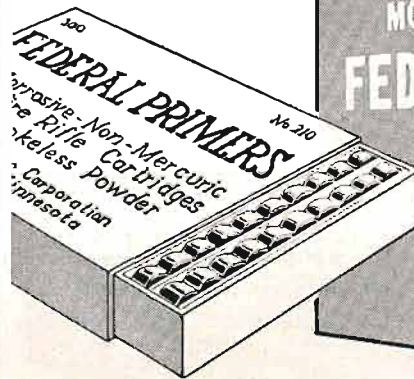
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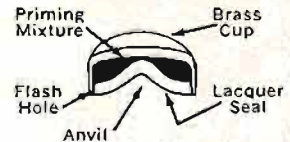
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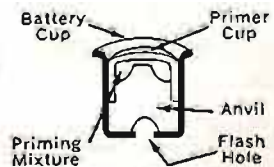
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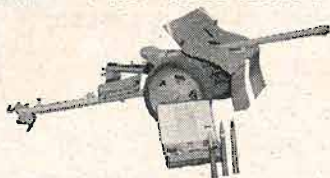
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usual 60-65 per cent patterns with heavy shot. But yardage is not the only virtue of a 20 gauge Magnum. All who handled my 20 Magnum agreed that it was faster than the 12 gauge, more easily aligned.

A 12 gauge with the same 28 inch barrels and the same 6 1/4 pound weight of the 20 gauge Magnum is still a more bulky gun to handle. The 28 inch tubes on a 12 gauge look wide and short. On the 20, they have the appearance of a 12 gauge with 32 inch barrels.

Recoil with the 1 1/4 ounce shot charge is not at all severe in a gun weighing 6 1/4 pounds, provided it is properly stocked to the gunner. But up this shot charge to 1 1/2 ounces, and recoil becomes an important factor; so much so that a gun weighing 7 1/2-8 pounds is almost a must, except for the well-seasoned gunner.

In the 20 gauge Magnum, I often use 1 ounce loads for upland gunning for grouse, over decoyed ducks, and for snipe. Incidentally, in testing 1 ounce shot charges at the pattern board, I have yet to see a 12 gauge turn in patterns as uniform as a 20 gauge. When you go below 1 1/8 ounce shot charges in the 12, pattern percentages fall off and pattern count from shot to shot become more erratic, both with handloads and factory shells.

There are some excellent 20 gauge Magnum gun values on the market. The Browning over-under can be obtained chambered for 3 inch 20 gauge shells. There is an auto-loader in the 20 gauge Magnum, the Breda. Several importers have double guns chambered for this gauge. The Mercury double is an excellently stocked shotgun. So is the Zephyr, the Aya. You can also have such guns as the sturdy Marlin Model 90 over-under 20 gauge rechambered for the 3 inch 20 gauge Magnum shell with perfect safety. Pachmayr Gun Works does this rechambering for \$7.50 per barrel.

Winchester, Model 21, in 20 Gauge Magnum, is a top flight gun. These come with 30 inch barrels, bored full and full, especially choked for the heavy Magnum loads, and deliver around 80 per cent patterns.

The 20 gauge Magnum, it seems to me, is always at its best in a double gun. The balance, the natural pointing ability of a fine double is hard to duplicate. When the obvious qualities of a fine double is matched to the shooting qualities of a 20 gauge Magnum, it adds up to an excellent all-around shotgun. If you like the versatility of a 20 gauge, the ranging qualities of the best 12 gauges, then the big 20, chambered for 3 inch shells, and using all loads from 7/8 ounce to 1 1/4 ounce shot charges, is your gun.

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HANDLOADING BENCH

(Continued from page 15)

10,000, or even by 20,000 pounds per square inch. Large flash holes, broken or shot-out webs, raise pressure and cause over ignition. This is one reason I recommend priming in a separate operation, so you can clean and inspect primer pockets. If you "seat by feel" the friction of a case in the die will vary. A possible exception for production loading, to some extent, is sizing and priming handgun cases with a Tungsten Carbide sizer. C-H makes a good one. Sizing is very smooth and easy, even with unlubricated cases.

Handgun cases give little web trouble with moderate loads, even after many loadings, if the brass is good. Split bodies are faulty brass. Sizing and priming in one operation does not allow cleaning and inspecting pockets. Some writers say it isn't necessary, but primer residue prevents uniform seating. Best deal is to size and decap, give pockets at least a "lick and a promise" cleaning with a wooden tool, gander at the web and vent, then prime as you bell the mouth. You'll find a few discards. Web problems increase with hot loads. Defective brass generally shows faults when first fired, most often splits, cracks or defects in the web or pocket.

GI .30-06 pockets reamed with an unsupported hand reamer often allow gas escape, indicated by smoked head faces. Discard these. Primers may extrude into an oversize firing pin hole. Punctures are often caused by a long or sharp firing pin. Blown primers seated in normal (tight) pockets indicate excessive pressure, unless case heads are soft. Light loads in rimless cases let primers back partly out of the pocket, causing excessive headspace. Excessive headspace will wreck a rifle with Hi-V loads, a subject we'll discuss at a later date. Some sizers set back the shoulder of rimless cases, causing dangerous headspace. You'll generally avoid that trouble with cheap dies if you adjust them to miss the shell holder by $\frac{1}{8}$ " or so. There is no substitute for quality dies of correct dimensions.

Remington primers should be seated .002" below the case head face. This very slightly compresses the anvil, that extends .006 to .010" below the cup with normal primers. W-W makes are seated .003 to .008" below the head face, using a punch that fits the primer crown.

Some shooters say it's better to use a round punch on all primers, rather than the other way around, if only one punch is used. I don't agree. Flat punches deform the face of round primers, but round punches may leave

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some primers "long," or high. Compression increases sensitivity, and I'd rather have the deformation visible. It looks crummy, but slightly crushed primers are better than long ones. Nothing is as good as a flat primer correctly seated with a flat punch with T.L.C. (Tender Loving Care), if the primer and pocket are good. Never, but never slam primers home. Easy does it!

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I've had excellent ignition with CCI primers seated from flush to .008" below the case head face. I suggest about .003" low, which compresses the anvil in most makes and Lot Numbers of cases. These are flat face primers, and a flat face punch should be used. While I think the CCI make is less critical, I do not think they make up for all sloppy priming faults. However, they gave excellent ignition with test loads seated "long" and over .009" low in an old, weak-spring revolver that misfired with factory ammo.

PULL!

(Continued from page 16)

new field in 1961. The 1961 Hoosier classic goes to the Kingen Gun Club, at McCordsville, near Indianapolis. Incidentally, a prediction has been made by veteran observers that both Indiana and Illinois will require a gun club equipped with 14 traps to handle future state tournaments. Ohio has already used 14 fields. Illinois and Indiana are approaching that requirement. Michigan used 10 traps in its 1960 tournament, and if that

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state's growth continues, 14 traps may be not long in the future for Michigan.

o o o

Sixty-nine-year-old Irvin Lathim won the Illinois state handicap trapshooting title, with a score of 99x100, of an interesting switch in personal statistics. As we chronicled earlier, the same title in Michigan went to a 16-year old boy. Lathim has been shooting for 50 years, but did take a 25-year lay-off along the way. He is in the 12th year of his second trapshooting career. Once the game of trapshooting gets in your blood, even a 25-year lay-off is not enough to keep you away from the gun club.

Illinois returned some familiar names to the winner's circle. The 16-yard singles event went to Tony Biagi, after a duel with Bobby Stifal, when both shooters lost one target over the regulation distance. Stifal played bridesmaid in the doubles race to lightning-fast-shooting Homer Clark, Jr.

Speaking of familiar names. Mr. Trapshooting, Arnold Riegger, made a shambles of the Washington state trapshoot. Arnold won every event that he entered, except the preliminary handicap. He broke a 99x100 from 27 yards in that event, but lost a shoot-off. That, my friends, is trapshooting.

o o o

Trapshooting ranks are expected to be swelled by other developments recently reported. The Scherwood Club, a family recreation club serving 900 families and 4500 people in the teeming Calumet area of Northwest Indiana, has added trapshooting to its recreational bill of fare. Hundreds of new shooters are being introduced to the joys of smacking a clay target at this club.

Over in Southwest Michigan, the Hartford Recreational Council, made up of representatives from all of Hartford's civic groups, has added beginning trapshooting to the Council's community recreation program. Boys and girls, aged 14 to 19, receive instruction in fundamentals of gun handling one night per week, then practice their newly acquired skills over the lighted traps of Verne and Bud Enders' Hartford Hunting Club after each skull session. Fifteen members of the Hartford Council attended instructor's briefings, and are serving as volunteers in the program. Seventy-seven boys have received the same type of instruction during the school year in boy's physical education classes in Hartford High School. Girls have been showing up in good numbers for the summer city program. PULL! expects to bring our readers the full story of the two Hartford programs, and the Scherwood Club, in future issues.

In Kalamazoo, Michigan, the Kalamazoo Gazette has repeated that newspaper's sponsorship of a trapshooting clinic for youngsters, at the Stevens Gun Club. Over in South Bend, Indiana, TV Station WSBT is bringing a trapshooting experience to the youngsters of St. Joseph County, at the Chain Of Lakes Gun Club. Reports on those programs are scheduled for later issues.



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ELMER KEITH SAYS

(Continued from page 8)

case has about the same capacity as our old .334 O.K.H. made from the full length .300 Mag. or .375 cases, with their smaller shoulder diameters.

We have always been dead against deep seating of long bullets, but in this case it seems to work out very well and still keep the overall cartridge length right for the short magazine. I would have preferred a longer overall cartridge with a longer magazine to handle it, and a longer barrel throat to fit the long slug; but Winchester makes this rifle on their standard action the same as their .458 Magnum, and I understand no changes will be made. So we are stuck with deep seating with the long 275 grain Speer or the 300 grain Winchester bullet. The 275 grain Speer performed wonderfully well for accuracy with 74 grains 4831, but I prefer the full 300 grain bullet in these .338 caliber rifles, having used it so many years in the .333 O.K.H. both here and in Africa.

Velocity of my 69 grain 4831 load with the 300 grain bullet should be 2500 feet, and it seems an ideal load for all American big game and African plains game. Trajectory is unbelievably flat. You do not need ultra high velocity for flat trajectory if you are pushing such long heavy high sectional density slugs. I sighted my rifle 2 3/4" high as just 110 yards for an elk hunt, and found that it was too high. The gun still shot around 3 inches high at 200 yards and dropped very little if any at 300. There is, of course, some compromise in a scope mounted 1 1/2" above the bore, and this compensates a lot. But the fact remains that the .338 Winchester, like the .333 O.K.H. Belted and its cousins, is as flat as is ever needed for any big game out to 400 yards—and big game should not be shot beyond such ranges.

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(Continued on page 73)

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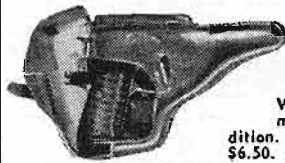
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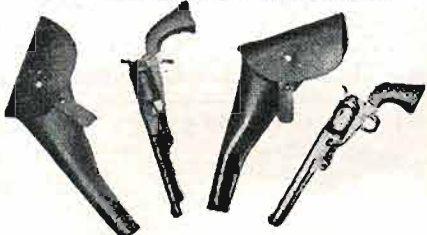
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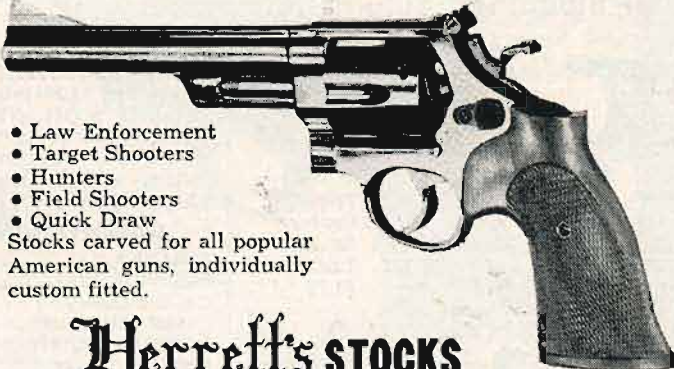
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