

DECEMBER 1961 50c

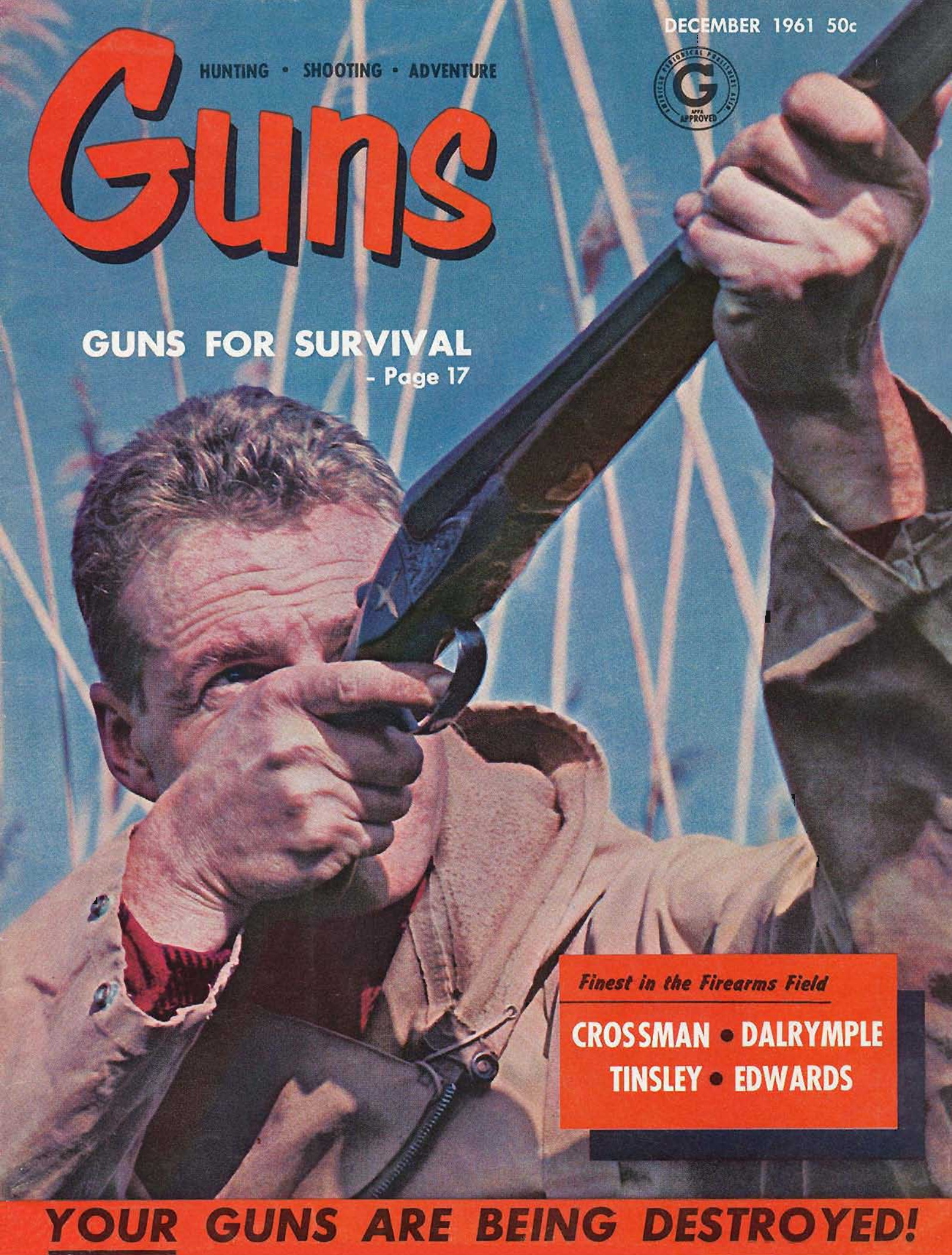
HUNTING • SHOOTING • ADVENTURE

Guns



GUNS FOR SURVIVAL

- Page 17



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Guns

FINEST IN THE FIREARMS FIELD

DECEMBER, 1961

Vol. VII, No. 12-84

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THE COVER

What could words add to a picture that speaks as eloquently as this one does of the excitement that lures us afield when wildfowl and upland birds are flying? Do you have a gun or gunning color picture with a punch like this? If so (and if it is bigger than 35 mm, which our engraver won't let us use), send it to us for consideration. Be sure it fits our cover design; it's not as simple as it may look.



RELOADING EQUIPMENT



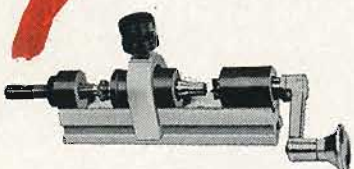
Your best insurance for a successful hunt!

Of all the things that insure a successful hunt, nothing is more important than your ammunition. When you want *real* accuracy and economy, too, smart shooters reload and recommend C-H Reloading Equipment. This precision line of reloading tools is engineered to give you the ultimate in reloading pleasure, accuracy and performance. With C-H you can choose your own components and loads, get the type of accuracy and smashing power **ONLY** custom loaded ammo can deliver.

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THE EDITOR'S CORNER

Report From Washington

IT IS FAIRLY well known by now that this magazine, and this writer, have little sympathy with legislation to restrict firearms sale or ownership. I said exactly that when I received the invitation to be the only magazine editor to share the discussions in Washington, D. C., of "A Bill To Amend The Federal Firearms Act." But having just returned from the second of those discussions, I have nothing but praise for the methods by which, this time, this action is being taken.

Like most things in Washington, this is complicated. The Senate Judiciary Committee (Senator James O. Eastland, Mississippi, Chairman) has a Subcommittee to Investigate Juvenile Delinquency (Senator Thomas J. Dodd, Connecticut, Chairman). One of the staff investigations of that Subcommittee is to weigh the importance of firearms in the problem of juvenile delinquency. Carl L. Perian is Staff Director of the Subcommittee, and the discussions with the firearms industry have been arranged and guided by Michael J. McInerney, Staff Investigator. Gun-interested people are fortunate in that McInerney is himself a gun enthusiast and a "friend at court."

The discussion group consisted of invited representatives of major domestic gun manufacturers and distributors, major gun importers and mail order houses, the National Rifle Association, the Director of Civilian Marksmanship, the State and Treasury departments, the Post Office, outstanding law enforcement chiefs, and this reporter.

No attempt was made by any person or group to inflate the problem beyond its true importance. There was the clearly stated awareness that the firearm itself is not the criminal, that it is only a factor (and a relatively minor one) in the overall picture of juvenile delinquency. The Committee investigators themselves presented evidence of this in the form of police records of guns confiscated over a given period: 176 guns, of which only 16 (or less than 10 per cent) involved persons under 21.

But even one gun in the hands of a teen-age, gang-fighting hoodlum is a bad thing; bad for society, bad for the officer who must arrest him, bad for the gun industry, bad for you and me as shooters.

It is the opinion of the Subcommittee that the relatively cheap mail-order pistols and revolvers are the ones most often found in the possession of the juvenile gangsters. The over-the-counter dealer has at least a visual contact with his customer, and many dealers demand proofs of age and character whenever a would-be buyer's appearance arouses doubt or suspicion in the dealer's mind. The mail order seller has no such contact, and kid gangsters have taken advantage of this to obtain guns they could not have purchased otherwise.

The object of the proposed Bill To Amend the Federal Firearms Act is, therefore, an attempt to close a loophole through which guns are obtained by undesirables.

The people directly "hurt" by the proposed Bill are those who advertise and sell guns by mail order. Yet this group was well represented in these discussions and seemed unanimous in their willingness to accept reasonable restrictions on their business in order to keep guns out of the wrong hands. As one spokesman put it, "We don't want to sell to punks. Show us how to avoid it and we'll go along." I think they are to be commended for this. As a matter of fact, I found new reasons to be proud of the firearms industry in



SENATOR
EASTLAND
Mississippi

SENATOR DODD
Connecticut



the fact that so many would come so far at their own expense and, in spite of their many divergent interests, discuss these problems so frankly and with such fair-minded good will.

Pistols by mail order are delivered by "common carrier," usually via express. Hence the wording of Section 2 (j) which is the heart of the proposed Amendment:

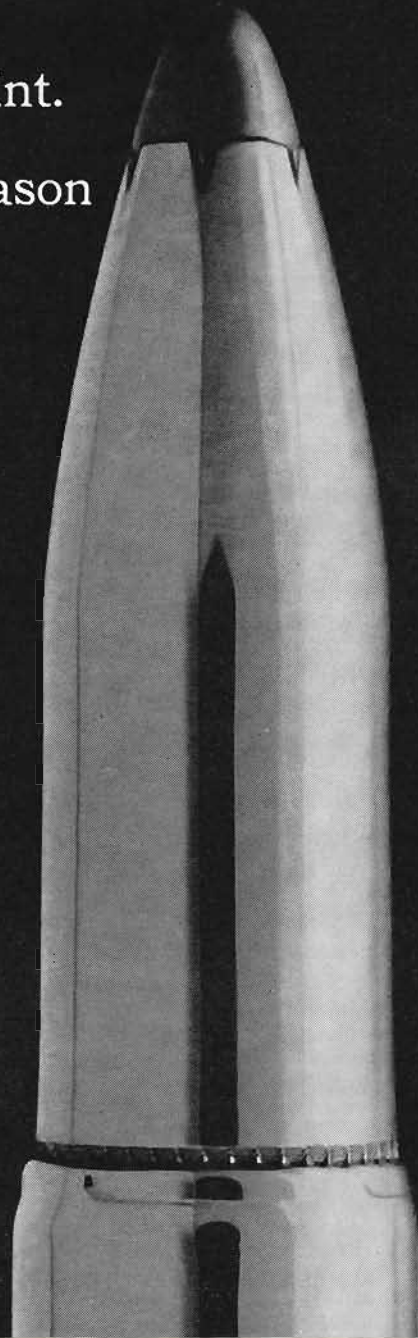
"It shall be unlawful for any common carrier knowingly to ship, transport or deliver, or cause to be shipped, transported or delivered, in interstate or foreign commerce, any pistol or revolver to any person under eighteen years of age." (Provisions will be provided requiring the label marking of such shipments, to identify them as firearms for the information of the common carrier.)

One other clause in the Amendment will sting many of us in the pocketbook, but not unreasonably in my opinion; and it may help to prevent existing abuses of the present law. This is in Section 3 (a) (2), which places the fee for a Federal Firearms dealer license at \$10.00. (The recipient of such a license must be twenty-one or over, must not be under indictment for or ever convicted of violation of the Federal Firearms Act or any violation of any law relating to narcotics or marijuana or any law punishable by imprisonment for a term of more than one year. He must not be a fugitive from justice. If the licensee becomes a violator of any of the above after issuance of his license, that license can be revoked.)

This, stripped of its necessary legal verbiage, is the proposed Amendment. Granted that many of you, and many of us who shared in the discussion, would prefer no gun legislation to any gun legislation, this legislation is at least well-intentioned and well-considered by representatives of your interests. It will not end juvenile delinquency. It will not prevent any criminal, juvenile or otherwise, from obtaining a firearm if he is seriously determined to do so. It will merely close one easy door through which guns have, provably, come into such hands.

And the intent of the representatives of the Committee beyond the wording of the amendment, clearly stated and promised, should earn a prayer of gratitude from every shooter in America: "The Committee will recommend that every community in America instigate and support an active junior shooting training program." This is a remarkable advance in the thinking of men concerned with gun legislation. It provides a ray of hope for the future of shooting sports in America.

This is Power Point.
The 6 notches
are part of the reason
it's the greatest
soft-nose bullet
ever made.



In years past, hunters have sworn by soft-nose bullets for just about any big game hunting. But as good as they were, bullets of this type were guilty of high lead loss and frequent mushroom collapse.

Now, Winchester-Western ballistic engineers, after years of research, have created a new type of big game soft-point bullet.

The result: Power Point — one of the greatest bullet designs in the history of shooting!

The secrets of Power Point's fantastic knock-down power and precisely controlled expansion are so

technical in terms of metallurgy and design engineering that they're almost impossible to explain.

But there's one "secret" you can see: the six scientifically placed notches in the bullet jacket. They correctly control the all-important expansion from the moment of impact to deep vital organ penetration at *all* hunting ranges — from less than 100 to more than 500 yards!

Like every Winchester-Western product, Power Points were exhaustively field tested. Bullets recovered from all types of game worked perfectly. No mushroom collapse...very

slight lead loss...and better than double diameter retained expansion! As one expert wrote in his report, "Power Point is the best medicine I've ever used — as an all-game bullet, I'll bet on it."



Olin

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65 bullets for handloading
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GUN RACK



By R. A. STEINDLER

Browning's Broadway

The new Browning "Broadway" over-under created quite a sensation at the Northbrook Sports Club, gathering place for many skeet and trap shooters in this area. The Northbrook club has a beautiful layout that is open to the public, and the club has done an outstanding job in furthering the shotgun sports.

The Browning Broadway will get admiring glances in any group of shotgun addicts. Specifically designed for the trap shooter, its extra-wide rib—ventilated, of course—is the result of requests made by trap shooters to Browning. The barrel is 32 inches long, the rib is 5/8 inch wide, and the Browning people



Northbrook shooter admires Browning's newest trap gun.

claim that the gun is bound to improve trap scores. Once used to the longer barrel and wider rib, shooters who tried this test sample generally agreed with that claim. The upper barrel is bored full, and it takes a couple of missed birds to realize that when Browning says "full," they do mean FULL. The weight of the gun is placed to give the shooter all of the benefit of the weight for an easy swing, and recoil is barely felt, even after shooting better than 400 rounds in one session.

The Broadway weighs a comfortable 8 pounds; chambers are the standard 2¾ inches; choke is available in full and full, improved-modified and full, modified and full, or any desired combination. The stock has a full pistol grip, length of pull is 14¾", drop at comb is 1¾", and drop at heel is 1¾". The semi-beavertail forearm is 10½" long and 2 inches wide. The trigger is gold

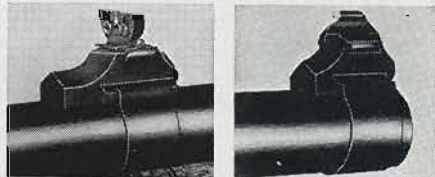
plated and single-selective, and the ejectors are automatic. The finish is superb, and several people who had a chance to shoot the gun went out and placed their orders. Is there a better recommendation?

Flight-Weight Scopes

These new, super-light weight Texan scopes are some 25 per cent lighter than conventional scopes, thanks to the all aluminum construction. The ten-lens optical system gives excellent definition, with lenses cemented into five back-to-back double sets which have absolute color and spherical correction, thus eliminating distortion. The Center-Set reticle is spring mounted to resist shock. Texan scopes are guaranteed to remain centered during windage and elevation adjustments, and scopes are factory adjusted for parallax at 100 yards. Joints are neoprene sealed and thus they are fog-proof, while the aluminum construction forestalls rust and corrosion. These scopes are available in 2½X, 4X, and 6X.

New Shotgun Sights

Because of the increasing population, more and more states are specifying the use of shotguns for deer hunting. Sighting a shotgun loaded with birdshot and the usual bead is one thing, but trying to get a decent group with the same gun loaded with slugs can be a frustrating experience. Although shotguns specially designed for slug shooting are on



the market and several companies sell slug barrels for their guns, most hunters have steered away from the extra expense of new gun or barrel. This left them with standard or make-shift sights, none of them wholly satisfactory.

The new "Fine Line" shotgun sight is
(Continued on page 61)

PISTOL PERFECT PRODUCTS by the J. Dewey Gun Co.

**RUGER
ADJUSTABLE TRIGGER
STOP KIT \$2.75**

Quickly and easily installed,
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Fully adjustable for all
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Combination HEATER-STOVE

HEAT-PAL produces as much heat as you want almost INSTANTLY—doubles as a top-quality cook stove. By adjusting the handy outside volume control you get complete range from low-low to intense high heat. Control slides out of sight when not in use. HEAT-PAL is a scientifically-designed sturdy steel and aluminum unit—a product of Swedish precision engineering. Guaranteed to give a full lifetime of service with perfect safety. Steel fuel container is crammed full of non-inflammable absorbent that "soaks up" alcohol, then releases it as desired for heating or cooking in a series of "gas-like" flames. Steel body has red lacquered finish with upper portion made of heavy-duty spun aluminum. Special vents release maximum heat. For cooking you get special steel grille adjustable for height and different size pots and pans. Uses inexpensive denatured alcohol (or lacquer-thinner). Gives up to 20 hours of heat with 1 1/2 pints of fuel. Can be used anywhere—even in boats, on dry grass, in tents, cabins, even in child's bedroom!

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A remarkable knife to add to any collection. Has 7 inch double-edge blade of tough Sheffield steel. Handle is especially shaped to give positive grasp when used as either slashing knife or dagger. Entire knife is especially treated and finished in dull black so it will not shine in moonlight or reflect light. Sheath is solid leather with metal tip-clip, flexible to assure instant, silent draw. Unusual souvenir and a useful knife when razor-sharp double edge is needed. Limited, 2 to a customer while supply lasts, only

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This superb knife—a masterpiece of old-world craftsmanship—is made by the famous Puma-Works of Solingen, West Germany. They named it "For the White Hunter" because it was designed for men who lead Safaris—whose lives depend on the best equipment that man can produce and money can buy! These men need a hunting knife that can skin big game—that slices through toughest hides, through thick bones or heavy branches—yet is sharp and delicate enough to slice slippery green twigs—or skin a tomato! This knife was designed and carefully fashioned to do every outdoor job—with no effort! Nothing was spared to make it the best. **NOTE THESE FEATURES:** Six inch Blade is the best steel made in World-famous Solingen. Curved line of edge has correct contour for all cutting, skinning, striking strokes. Blade's reverse side has short, edge, ideal for heavy cutting of firewood or hacking down branches. Scallops along outer edge enables easy cuts into slippery objects—green twigs, fish skin, etc. Blade is weighted toward tip. At heaviest part, flattened face can serve as a hammer! Natural, selected black Stag-horn handle. Your hand can not slip under the wettest, coldest conditions. Blade is handsome, smartly tailored top grain Cowhide—solid leather. We Guarantee: This to be the best hunting knife you ever owned. We guarantee it to perform the best—to be the best-balanced—the most rugged, the most useful. It usually sells up to \$15.00. Our price, only **\$9.95**.



usual price \$15.00
our price **\$9.95**

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Show the full beauty of your guns by displaying them on this attractive Empire Gun Rack. Made of select, properly seasoned, guaranteed non-warp cherrywood, it is carefully stained and hand rubbed to a rich walnut tone. Measures 20 1/2 x 26 x 4 1/2. Drawer for shells and accessories has brass pull knobs plus lock with 2 keys. Hinges unasssembled, complete with screws. Be sure to print or type name to be inscribed on plaque to be mounted on rack.

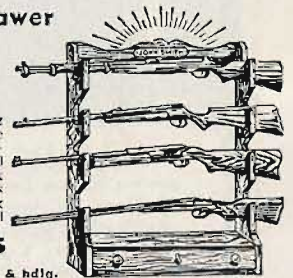
\$12.95

plus 50c pp. & hdlg.

Also available (without drawer but with name plaque)

- 2 Place Gun Rack—11 1/2 x 26 x 3 1/2"\$4.95
- 4 Place Gun Rack—23 1/2 x 26 x 3 1/2"\$5.95
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Add 50c pp. & hdlg.



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Overalls are bib-type with snap fly front, have adjustable waistline snaps; 6 inch elastic on suspenders for extra comfort. This suit is light enough to assure easy, free action. Sturdy for any use and guaranteed to provide complete protection and comfort in any weather. Small, med., lge. & extra lge.



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We've just located a treasure—original, authentic Confederate Bayonets! The proud possessor of these bayonets had spent many years searching for these historical weapons. He tells us they were actually picked up on fields of combat and that every one had actually been used in the War—every one a battle souvenir. Outside of the surface rust, they're in sound condition. Order at least two and use them crossed for wall decoration. A Civil War relic you'll be proud to show and people will ask to see. We have a good supply but they won't last forever . . . **\$5.95 ea. ppd.** so hurry!



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\$5.95

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\$2.50 PPD. Finest steel! Tops for precision work in woods, plastic, iron, aluminum, etc. Includes plastic kit with marked pocket for each drill

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Genuine top-grain cowhide belt will add a handsome note to any attire, while "secret" zippered inner pocket holds currency far from prying eyes. Conservatively fashioned 1 1/2" wide belt is clinched with a gleaming buckle sporting his 2 or 3 initials. Available in brown top-grain cowhide leather with gold-plated buckle; black-leather with a silvery rhodium buckle. Specify waist sizes 28 to 44 and color . . . **\$3.98** Send check or money order. If COD, \$2 deposit required. Money back guaranteed



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Send 10¢ for
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CROSSFIRE

More Guns, Less Crime

Just read the article, "Today, A Gun Could Save Your Life," and it is very good. It should be run in every newspaper in the country. If more car owners packed guns, there would be less highway crime.

I enjoy your magazine very much.

Frank J. Smith
Climax, Colorado

Information, Please

We of the "Single Sixes" Speed Draw Club of Brunswick, Maine, are all members of a Navy Patrol Squadron, so our practice time is limited, and two deployments have hindered us from meeting other clubs and promoting the fast draw sport in New England. We would like to hear from other fast draw clubs in New England, with a view to friendly competition and promotion of the sport. Also, we would like to hear from other clubs anywhere on such matters as rules and types of competition, national championship, and similar subjects. Please write

Charles D. Campbell, ADR2
22 Guadalupe Drive
Brunswick, Maine

Advice To Minutemen

I notice that your articles on survival and home defense in event of enemy attack have attracted considerable interest.

What is needed most is for each shooter to buy extra ammunition, at least one hundred rounds for each caliber. You won't last long in combat with only 20 rounds, which is all the average hunter has. Nearly everyone has a gun of some type, but all the ammunition would be gone in a week. Also, four-shot automatic hunting rifles would empty so fast, they would be a liability.

R. B. Cole
Littleton, N.H.

Women Welcome

I read your magazine every month. I gave a year's subscription of GUNS to my husband for Christmas last year and plan to renew it this year. I am becoming more and more an enthusiast of your magazine. I love hunting; I got my first deer last year. My shooting has improved since I started reading GUNS. Some of the tips on shooting in some stories have helped. GUNS may be put out for men, but we women like it too; at least I do.

Mrs. Barbara Eastman
Barnstead, N.H.

Appeal

We have been advised that Representative Dingle of Michigan introduced on June 1, 1961, House Bill No. 7390 which, if passed, would make it necessary to include Excise Tax of 11% on all ammunition components. We suggest that you write to your Senator, Representative, or anyone else you know in Washington who can be of assistance, stating that you are not in favor of this bill. Ask your friends and neighbors to do likewise.

Please exert all possible means to kill this section of House Bill No. 7390. It is to our mutual benefit that it is not passed.

Paul H. Adams
New York, N.Y.

Warning

The Communistic interests in this country who are trying to hoodwink lawmakers into disarming the American public must be defeated. I can not see why responsible lawmakers allow themselves to even consider disarming American citizens. Why are they not aware of the fact that Germany, during the Nazi rise to power, used this method of enslaving the peoples of Europe?

It is only by being strong in our determination to be free, and vigilant in guarding every right of our Constitution, that we can

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remain so. May we never for one moment forget the Eichman era. We cannot afford to let it happen here. To those who gave their lives for our freedom, we owe a debt which can only be repaid by our living for, and being willing to die for, that freedom. It was bought with a price which we all must share.

L. H. Gair
Takoma Park, Md.

The Price Goes Up

New York State with its infamous Sullivan law has done it again. A permit required by state law (in violation to 2nd amendment) now costs \$5.00—up 1000 per cent.

If you wanted to use a gun for a crime, who would apply for a permit?

Any reader who thinks this can not happen in his State, take notice.

If any one would care to help us, please send a letter of protest to Att. W. J. Stewart, 9 Market St., Amsterdam, N.Y.

R. G. Roberts
Tribes Hill, N.Y.



"Bruce, Please Come Home"

Bruce Crawford (left) is a 15-year-old Avon Lake, Ohio, youth who has been missing from his home since September 23. His main love and abiding interest is guns. He has an extensive collection and is a

long-time subscriber to GUNS magazine.

Bruce is 5'9" tall and weighs 135 lbs. He has brown hair, brown eyes, wears braces on his lower teeth, and has a hairline scar at the bridge of his nose.

His distraught parents, Mr. and Mrs. Robert Crawford, asked that GUNS Magazine publish this message to their only child: "Bruce, let us hear from you or please come home. We love you."

If any reader has any information pertaining to the above, kindly contact our editorial offices.—Editor.

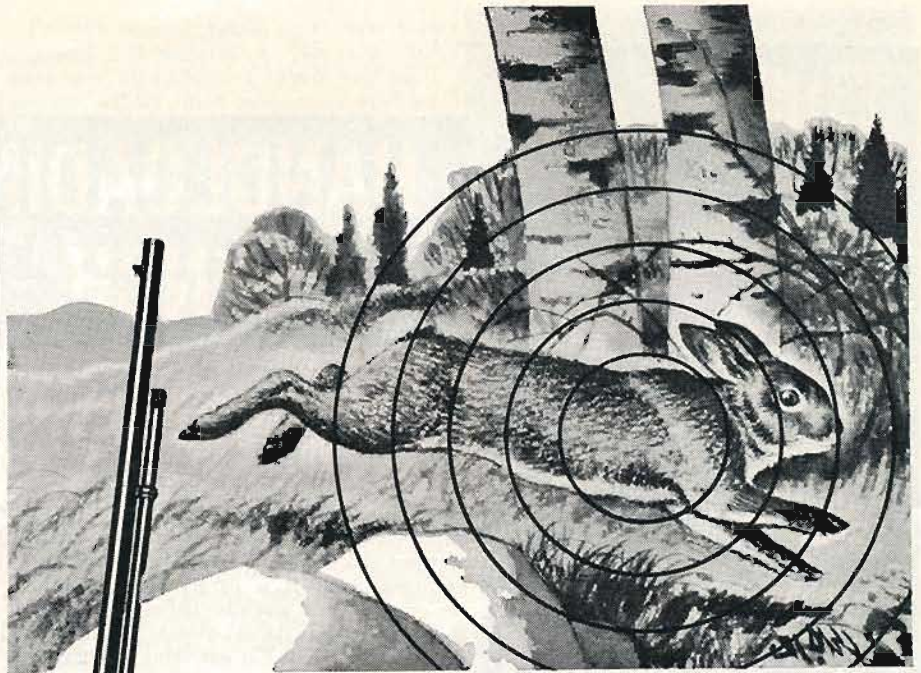
Worth Every Penny

I "discovered" your magazine last December, and ever since then have been a confirmed addict. Although it is fairly expensive here, (90 cents), it is worth every penny of it.

I was drawn into the "club" by the picture of a Luger on the front cover of that issue. I have a 1917 8" barrel model, and have found it amazingly accurate and very sweet to handle. I have carried out the slight modifications shown in the article, and it shoots better than ever. My hat's off to your magazine. The recoil, however, is pretty heavy, far heavier than the previous "Pistole 08" that I used to have, and I wonder if you have anything up your sleeve in the way of a muzzle-brake? I was surprised to read that the modified .45 Luger had a softer recoil.

Keep up the good work. I shall go on buying even if there aren't any more articles on the "King of handguns."

T. H. S. Curry
Ndola, Northern Rhodesia



Hightailin' for cover... stop him quick with the new Stevens 87!

You can depend on the speed and accuracy of this new Stevens 87 automatic. You'll be proud of its streamlined good looks... glad to know it handles .22 long rifle, long and high-speed short cartridges. Mix 'em up any way you want—the 87 pours out up to 22 shots as fast as you pull the trigger. Converts instantly for use as a single shot or repeater.

The new Stevens 87-K has the same action in carbine length, with gold-plated trigger, chromed fittings, desert tan stock. See your sporting arms dealer. And write for free catalog of Savage, Stevens, Fox firearms. Savage Arms, Westfield 92, Mass. Prices subject to change. Slightly higher in Canada.

New Stevens 87 and 87-K

**HANDLE ALL 3 LENGTHS
OF .22 CARTRIDGE
INTERCHANGEABLY
— WITHOUT ADJUSTMENT**



\$41.50, model 87.

(87-K "Scout" carbine, \$42.95)

**Stevens
87**

by **Savage**





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Eddie BAUER SEATTLE 22, WASHINGTON DEPT. M-2

HANDLOADING BENCH

By KENT BELLAM



New From Pacific

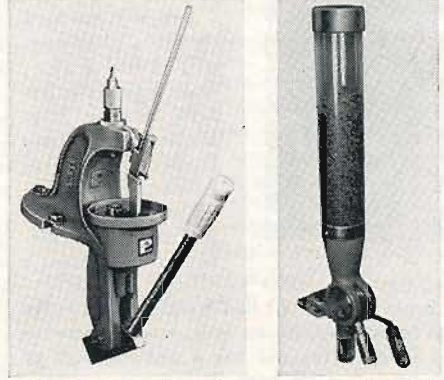
Good though they have always been, the new lines of Pacific dies and tools show many improvements over those I began using nearly 25 years ago. Pacific's new Super Deluxe tool for metallic ammo is hardly kissin' kin to the original; it is much beefed up, has all of the advantages of the old models plus a good many new features. For one thing, the toggle block can be switched quickly from the up-stroke operation (which I prefer) to operate on the downstroke, which is preferable if your bench is not attached to the floor.

The new Pacific Universal Primer Arm has four removable primer seating punches and two cups, all for \$3.00. This lets you load large or small, round or flat faced primers. The primer arm spring cover prevents primers from jamming the arm, and the new plastic primer catcher keeps fired primers off the floor. It is large and deep, slips on or off pronto.

Pacific loading dies are chrome plated.

Standard 3-die pistol sets are \$13.50, or \$29.50 with a carbide insert in the sizer. Carbide dies last longer, produce nicer looking work easier.

Pacific's new Deluxe Powder Measure is a nicely made micrometer type with a large, 2" x 10" clear plastic hopper. A good tip is to use adhesive or pressure-sensitive tape on the hopper to record measure settings for reference. Designed for rifle powders, it throws up to 100 grains, and works with pistol powders also.



Handgunners have long sworn by Pacific's little Pistol Powder Measure, and the new model is even nicer. It has a much needed clear plastic hopper. Rotors are available for popular fixed charges. You can buy a blank rotor and drill a cavity for any desired charge. Best deal is to purchase the next smaller charge rotor and enlarge the cavity. Always stamp it with the new charge to avoid accidents! Fixed charges insure uniformity and eliminate adjusting a measure, which is quite a convenience.

Pacific's new Bullet Swage Dies are for the Super Deluxe tool, but can be used in the Regular Super with minor modification and the \$9.50 Lead Wire Cutter, that serves as a brace bar. I set up the \$19.50 Semi-Wadcutter Dies in .357 caliber, and they made good pills. Operation is simple. You won't have any trouble following instructions. I recommend using the \$1.00 Pacific Level Block. Bullets are perfectly formed with the handle operated twice up and twice down. Do not attempt to use any alloy. Use only pure, soft lead cores. Antimonial or alloy lead wire causes trouble. Cores and jackets should weigh about 3 grains more than the desired weight of the finished bullets. It is extremely important to use jackets of proper dimensions, such as Hornady, Bahler, Speer, or Harvey. Dies bleed-off at the side, just above the jacket mouth. Long jackets cause no end of trouble, as do bullets that are too light.

NOW! cartridge reloading with UP or DOWN stroke action in one tool



Pacific Super Tool Only \$18.50*

Simply invert toggle and link, and you have your choice of the action you prefer, up or down.

Cast of the highest grade non-porous cast iron, the only material that holds to a minimum the springing or elongation of the yoke while tool is functioning. This keeps the case in perfect alignment with the die, insuring a perfect reloading job.

ACCESSORIES

- Super Tool Automatic Primer Feed.....\$ 7.00
- Super Tool Primer Catcher..... 1.75
- Universal Primer Arm..... 3.00
- Rifle Die Set..... 11.50
- Pistol Die Set..... 13.50
- One piece shell holder..... 4.50

*Super tool frame with toggle and handle 18.50

See your dealer or write for literature



PACIFIC GUN SIGHT CO. Dept. G, Lincoln 4, Nebraska

NOW-CCI MAGNUM PRIMERS FOR SPECIAL RELOADS



ELMER IMTHURN,
CCI Ballistician reports . . .

A PRIMER FOR USE IN ANY SIZE CASE WITH ANY TYPE OF POWDER!

"The major advantage of the CCI magnum primer is its ability to ignite deterrent coated powders, so they burn at proper intensity—especially welcomed by large capacity case shooters. The CCI magnum primer eliminates sooty-black residue. You also get less vertical dispersion at the target."

"You get another benefit if you shoot reduced loads. The powder charge is superheated even with abnormal air space in the cartridge case, resulting in uniform burning of all powder."

"The CCI magnum primer produces outstanding results in extreme cold climates because your reloads maintain uniform velocity round after round."

"It all adds up to utmost dependability and accuracy."

For free ballistic report on the CCI magnum primer write to Elmer Imthurn, P.O. Box 282, Lewiston, Idaho

CCI

MAGNUM PRIMERS

cascade cartridge, inc
BOX 282 LEWISTON, IDAHO

Pacific's familiar \$10.90 scales have been improved and modernized. The faster and nicer new Micro-Scale at \$14.50 will be a popular number. Both models are accurate.

Pacific's excellent line of shotgun loaders were designed by Bob Deitemeyer. My column in the June, 1960 issue, covered the DL-100, a good economy priced tool. Since then, an automatic primer feed has been added, unusual on a \$59.50 loader. The DL-300 (Professional) is a fine, fast production 12 gauge turret machine. One man can actually thrash out 500 quality reloads per hour. This means it eats shot at the rate of over 40 pounds per hour! Following simple directions makes reloads equal or superior to factory fodder.

Controversy

Some writers have complained that .44 Remington Magnum ammunition, as made by Remington and Winchester-Western, is entirely too hot. In contrast, Col. Askins has stated that the stuff has been reduced from the original velocity. This doesn't jibe with our tests, and I asked both ammo makers about it.

Remington tells me the original listed velocity was, and is, correct, but the velocity was obtained in an unvented pressure barrel, as no revolver was available for testing when the cartridge was developed. Pressure and velocity remain the same. W-W tells me their ammo is loaded to standard S.A.A.M.I. specs for pressure and velocity, and always has been.

I go along with both ammo makers. Current lots of both makes chronograph nearly identical with a few original rounds we saved for just such a test, well within S.A.A.M.I. specifications.

Tips From Bench and Field

Firing heavy or excessive loads may increase headspace in rifles, best corrected by a gunsmith. Revolver cylinders may drag on the barrel. The clearance should be .002", or no more than .005". You can carefully file the barrel breech until a thin crack of light is visible with the cylinder in the forward position. Too much end play in the cylinder is not good. Lap the barrel throat entrance to remove burrs. One way to do it is with a rubber-abrasive rod, such as Bright-Boy in Fine-Tex. Use about 3/4" of the proper diameter. Drill a center hole and insert a screw to fit your cleaning rod. Insert the cleaning rod in the barrel and screw on the rubber compound lap, that has been tapered. Turn the rod a couple of dozen times by hand. You'll find many uses for such rods around a bench.

. . .

Most handloaders at one time or another use charges of fast powders that give erratic groups. This means that, while charges may be well within the safe pressure limits for the gun, they are too heavy for accuracy. Unique is a good example of a good powder for reduced rifle charges, and it's quite popular for Lo-V with cast pills. A gent told me he had been loading a 165 grain gas check pill in his .30-06 with 21 grains Unique, and went to a site where a new stock pond dam was being built to shoot for group. I inquired if the load shot well. He replied, "Not by a dam site!"

Cutting the charge to 18 grains brought



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Reflection-free, color corrected 10-lens system for edge-to-edge sharpness and brilliant field.

Choice of 4 standard reticules (DOT, extra)

Internal windage and elevation adjustments feature positive click stops

All joints Neoprene-sealed against shock and fogging

Specify **TEXAN** Mounts for better shooting

2½x about \$42.50
4x about 48.00
6x about 55.00

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Here's the WORLD'S BEST SHOTGUN VALUE . . . NEW MOSSBERG **500** WITH THE SAFETY ON TOP

A mighty big claim! But read the facts about the "500" and you'll agree.

\$73⁵⁰

with any one of 4 regular barrels in various lengths and chokes. C-LECT-CHOKE and 3" Magnum barrels also available

It's the *only* 12 ga. pump that puts the safety on top, *right under your thumb.*

The only shotgun at near this price to offer you a choice of 6 barrels, interchangeable *easily* and *quickly* on the same action . . . various lengths, chokes, chamber sizes, including a 3" Magnum. No trouble; you change them yourself in less than a minute without tools.

Result: No more nuisance of sending your gun to the factory for barrel changes. And you have one shotgun for an amazingly wide variety of game as well as skeet and trap.

These features *alone* make the "500" unique and great. But look at the bonus features!

BONUS:

Disconnecting trigger eliminates accidental "doubles."

BONUS:

Light weight (only 6 $\frac{3}{4}$ lbs.). Forged receiver of special high-tensile, light-weight alloy.

BONUS:

Cushion rubber recoil pad.

6 EXTRA BARRELS:
Regular (4) \$19.95 ea.
C-LECT-CHOKE and
3" Magnum, \$25.95 ea.

BONUS:

Loads fast and easy—no annoying obstructions.

BONUS:

Velvet-smooth action with straight line feed into barrel—and complete action disassembles quickly without special tools.

"American materials, American made"

A NATIONALLY KNOWN GUN TESTING ORGANIZATION REPORTS: "Thousands of rounds without malfunction. Exceptionally well made. At least as good as any pump gun we have tested."

3 companion models—500K with C-LECT-CHOKE, \$79.50—500M for 3" Magnum shells, \$79.50—500 COMBINATION, with 2 barrels, 30" F.C. and 26" Imp. Cyl., \$88.88

See the "500" at your Mossberg dealer's. FREE: New, catalog. Write to factory.

O. F. MOSSBERG & SONS, INC.
18112 St. John St., New Haven 5, Conn.

Mossberg
for accuracy

the group to a decent size, suitable for cheap plinking practice. Using 15 grains gave a still tighter group, and 21 grains is too much powder to shoot by a dam site, or anywhere else. Many riflemen do not get enough practice to be called riflemen. These chaps stick to full charges with store bought jacketed bullets. They could have ten times more fun, and really master rifle handling, by shooting a few thousand cheap cast-bullet plinking loads every year.

A tin can can't tell if it was hit with a hell-for-leather charge or a cheap plinking load. Jackrabbits and other varmints make fine running targets for off-hand plinking. Misses kick up dirt to teach fast, accurate, efficient gun handling. Granted, the Hi-X glass with a tight sling and a bull barrel has a place of honor. But the gun handlers who can pour a stream of lead into running jacks at long plinking range with a slim, trim tube, while off balance, are the real shooters. The only way to learn is to get plenty of practice.

Division Lead Co., 7742 West 61st Place, Summit, Illinois, will send you their free Bulletin No. 85 on request. It's entitled "For Your Information." This is good dope on casting alloys, accuracy, casting technique, maximum velocity and pressure, lab reports on scrap lead, and other worthwhile information. Called "DIVCO," this is the firm that supplies dealers with the high grade Illinois Bullet Alloys, chilled shot, Swag-O-Matic lead wire, and the premium grade Illinois Long Range Copper Plated Lead Shot. These give tighter, more even patterns at longer range than any chilled shot I ever used.

Correction

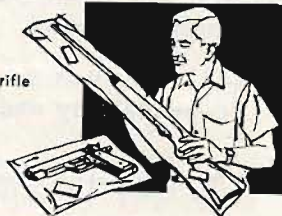
In the August issue I stated that Speer's new 140 grain 6.5 pill worked well in the .264 Winchester Magnum, which it does. The error was in saying we used a Weaver V8 glass in a Buehler mount. It was Weaver's K8 glass in this excellent mount. The new Weaver V8 scope proved to be excellent, and held zero perfectly on a .243 Winchester in a Weaver Adjustable Mount. The V8 glass and W-A mount holds zero, even on heavy recoiling rifles such as a .300 Weatherby. For the record, Weaver's improved K60B scopes first hit the market in June, 1956, and were not announced for nearly a year! I believe they were the first hunting scopes with a fixed reticule with internal adjustments.

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storage bag for rifle

\$1⁰⁰

storage bag for pistol



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SAVE \$60.00 NOW! The world famed Firearms International MATADOR is built by one of Europe's finest gun makers and is designed for extra long range shooting. You'll kill ducks and geese easily up to 100 yds. It is also a wonderful gun for fox and other varmint shooting at long ranges. **SPECIFICATIONS:** 10 gauge Magnum for 2 1/4" or 3 1/2" Magnum Shells. Finest heavy 32" full choked barrels. French Walnut beautifully checkered stock and full beavertail forearm—action is built on specially large frame to cut recoil to a minimum. Hand engraved receiver. Brand new, first quality 1961 fresh stock. Only a slight change in the forthcoming model makes this \$60.00 savings a reality! The Matador also has selective automatic ejectors, Anson & Deely double safety underlocks, double trigger, firing pins individual spring mounted to minimize breakage. 49" overall, 9 1/2 lbs. Length of pull 13 1/2" drop at comb 1 1/2"; drop at heel 2 1/4"; pitch 2 1/4". Certified \$189.50 Value. **\$129.50** Order #195—hurry! Pay only \$1.00 Down. \$6.72 a week for 22 weeks or...
10 Ga. Magnum 3 1/2" shells are available at KLEIN'S for \$7.20 per 25. Specify BB, j2 or j4 shot.

Note: Lay Away Plan available only on Matadors: Send \$10.00 Lay Away Deposit—No Extra charges! Hurry!

SAVE \$60.00 NOW!

\$129.50 FULL PRICE

PAY \$1 DOWN
Balance \$6.72 a Week
For Only 22 Weeks

The Matador 10 GA. MAGNUM DOUBLE BARREL SHOTGUN

- Selective Automatic Ejectors
- Anson & Deely Double Underlocks

The Matador is manufactured for Firearms International Corporation by the world renowned house of AYA, Spain's foremost quality shotgun manufacturer.



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Made especially for Klein's by Noble to Klein's exacting specifications and highest American standards of precision and quality. Klein's & Noble have put everything into this shotgun that Klein's years of gun buying, shooting and experience have shown to be most wanted and desired. Double Guaranteed—by Klein's and by the Manufacturer for your 100% satisfaction! Here is balance, feel and performance found only in pump shotguns selling for \$80.00 and more! The Fleetwood is a gun you will be proud to own, confident to shoot... a gun with smooth fast action when fast "on target" performance and natural point is needed. Safe fire control—trigger must be released and pulled for each shot and action must be completely closed before trigger can be pulled. Push button safety on trigger guard. Positive extraction and automatic side ejection on every shot. Proof tested alloy steel barrels. Tubular 6-shot magazine easily reduced to 3-shot with free wood plug. American Walnut pistol grip stock and grooved Walnut forend. Rubber butt plate.

See Bonus Offer at Left, With Fleetwood Only!

BONUS

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You get all this free! Britch-bore cleaning kit in metal box, 3 pc. aluminum rod, oil and fannel patches, de luxe leatherlike Vinyl plastic gun case—heavily padded, with zipper closure; chrome-plated imported pocket hand warmer—flameless, 24 hr. capacity, operates on gas or lighter fluid; and an adjustable web shell belt.

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Now, yes TODAY, you can shoot and have all the pleasure and enjoyment of shooting the world's most wanted guns... only a single dollar bill puts the Belgian Browning Automatic 12 Gauge Shotgun in your hands now! And you pay **NOT ONE CENT** for delivery—and **NOT ONE CENT** for credit. You have 5 full months to pay with **NO service charge.**

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IMMEDIATE DELIVERY!

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Pay only \$1.00 down on the gun of your choice... you will be charged only a 10% service charge, balance to be paid over a 10 month period. You still have \$333 on Klein's generous long term credit—and your monthly payments will be much smaller. This plan applies only to new guns sold at mfr's list price.

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NEW MARLIN LEVER ACTIONS!

Free Credit... Free Shipping!... 22's, 30/30 or .35 Rem.

For only pennies a day you can own and shoot a brand new 1962 Marlin Lever Action Rifle or Carbine. Send only \$1.00!... pay balance in Easy Monthly Payments. You pay only the price of the gun—there is NO Charge for Shipping and NO Charge for Credit. And, of course, you have Klein's iron-clad Money Back Guarantee of Satisfaction.

Choose from any of the models described to the right. All are fast-handling, fast-firing with the super-smooth highly perfected Marlin lever action and exclusive Micro-Grooved barrel for pin-point accuracy. All have selected all-weather Walnut stocks, are drilled and tapped for adapter mount (furnished) for tip-off scope bases. Open rear sight and hooded ramp front sights. Illustrated is Golden Model 39A for .22 short, long or long rifle cartridges with Marlin's own Micro-Vue 4X Scope. Full tubular magazine handles 25 short, 20 long, or 18 long rifle .22 caliber cartridges. It's yours for only \$1.00 Down! Order today!

Pay Only \$1 Down! Immediate Delivery!

Choose From These MARLINS:→

GOLDEN 39A (as Illustrated)— 24" bbl. Pay \$1.00 Down, \$3.58 a week for only 22 weeks, **\$79.95** or (Add only \$10.00 for Marlin 4X Scope, if wanted).
Mountie 39A with 20" bbl., straight grip, is also available—same price.

99DL—22" .22 cal. tubular automatic. \$1.00 Down, \$2.23 a week for only 22 weeks, or **\$49.95** (Add only \$10.00 for Marlin 4X Scope, if wanted).

336C (or 3365C—2/3 Mag.)— World's most accurate deer rifle, 20" bbl. 30/30 or 35 Rem. Caliber. \$1.00 Down, \$3.85 a week for only **\$84.95** 22 weeks, or... (\$40.00 Extra for Marlin 4X-1" Micro-Power Scope, if wanted).

The Rifle Every G.I. Wants! Buy Now!



U.S. M1 .30 Caliber Carbine 15 Shots—Semi-Automatic

The only U.S. military small arm made with the lines and weight of a modern sporter. Weighs only 5 1/2 lbs., 18" barrel, 30" overall. Gun operated from 100 to 800 yds. Like New Condition. Pay \$1.00 DOWN, BALANCE \$4.10 A WEEK FOR 22 WEEKS

\$79.95

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Only \$2.00 Extra for Sling with Oiler;... \$1.00 for Pistol Nut, Wrench;... 15-shot Magazine, 3 for \$1.00;... \$3.95 for Flash Hider;... 30 cal. Military Ammo, \$7.50 per 100 rds.;... 30 cal. Hunting Ammo \$5.00 per 30 rds.;... 30-shot Magazine \$1.95;... Muzzle Brake \$3.95;... 6-shot Magazine \$2.50. Orders with Ammo shipped Express Collect.

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The new Frontier SIX SHOOTER is an exact super-accurate modern shooting reproduction of the famous 1890's single action frontier six-shooter most prized by the men of the old west. These guns are made by the famed gun maker in Germany in the exact size and weight of the original models. Excellent for hunting, plinking, home protection or fast draw. Blue steel finish. 40 oz. weight, 5 1/2" bbl. Brand new! State choice of .22 (shoots .22 short, long or long rifle) or .22 Magnum. Order #66.
Pay only \$1.00 Down, \$2.04 a week for only 22 weeks, or... **\$39.95** ppd

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The "Bearcat" is a mechanical jewel, made to standards of precision and quality that will fascinate the man who understands fine firearms. Compact as it is, the "Bearcat" possesses a grip which is comfortable and secure even in a large hand, clear sights and the feeling of being heavy for its size that makes accurate shooting easy. CALIBER: 22 Long Rifle, long or short, high velocity or regular. Six shots. CYLINDER: Heat treated steel cylinder with recessed chambers, decorated with appropriate engraving. BARREL: Length, 4". WEIGHT: 17 oz., 8 1/2". Pay only \$1.00 down, \$1.75 a week for only 22 weeks. Order #7050. Cash or Credit Price, only **\$39.95** ppd

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RUSH: MY NAME ADDRESS

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HANDGUN PURCHASERS: Please send signed statement stating that you are 21 or over, not an alien, have not been convicted of a crime, not under indictment, not a fugitive or drug addict. Also send permit if your city or state requires.

MONEY BACK GUARANTEE!

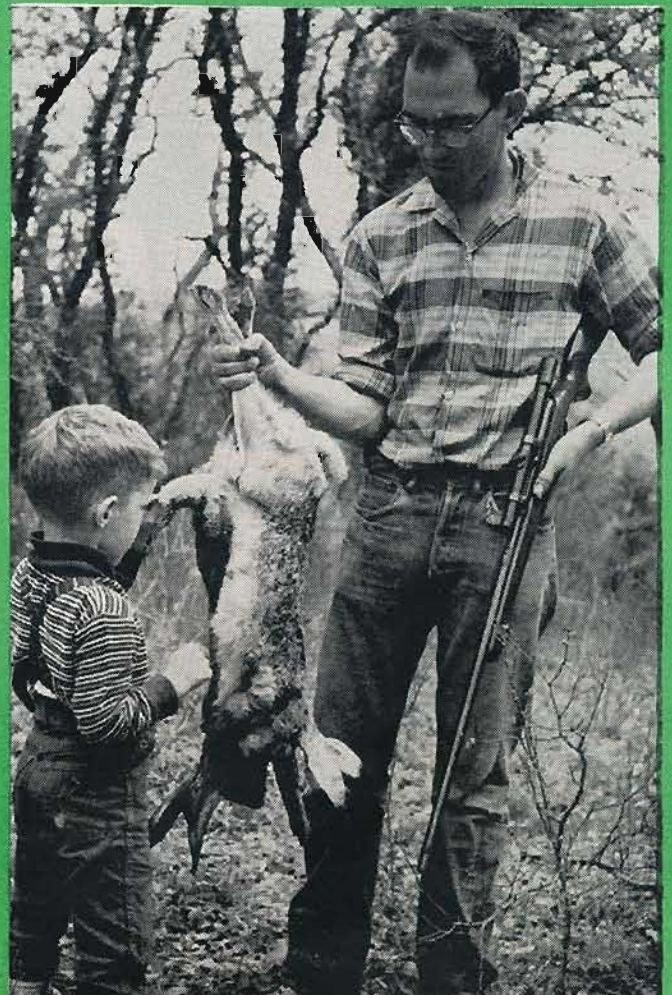


WHEN THE CHIPS ARE DOWN
AND YOU MUST FEED YOUR FAMILY WITH NO
HELP FROM THE SUPER-MARKET,
A GUN IS BETTER THAN A BANK ACCOUNT.
WHAT GUN WILL YOU CHOOSE?

GUNS FOR SURVIVAL

By RUSSELL TINSLEY

Living off the country with only a limited supply of ammo makes it essential that each shot produces its edible results. Meal preparations were identical to a possible emergency situation, and staples were scarce.





Ammunition is carefully doled out before the day's hunt. Author's Mossberg Model 350K semi-auto with A25 variable scope was good, reliable meat gun.

THAT GUN TUCKED AWAY in your closet may be the best insurance you own. Insurance policies, securities, and money in the bank are sound investments in the peaceful atmosphere we Americans enjoy here at home today. But a gun can feed you should this country suddenly be gripped by a national catastrophe, such as an atomic attack. It could be the difference between life or death.

In a disaster, money becomes relatively unimportant. The basic necessities for survival are not readily available on the shelf of some local super-market. I know. For two weeks, I lived off my wits and woodsman's skills, keeping my family alive on what I could kill, catch, or find.

Perhaps I could have made it without my dependable gun. But—it sure made things easier! After the actual test, I am more than ever convinced that the person armed with a gun stands the best chance of survival should he be forced to flee his home and hack a new way of life from the woods.

Civil Defense authorities tell us that the minimum time we can expect to remain

SURVIVAL



Survival hunting means still hunting to save price-less ammo and collect meat for the family dinner.



Two shots, two squirrels. Dinner-to-be is admired by author who had to outwit game and kill it with shots that wasted no ammunition or meat for table.

away from our homes, should an atomic attack come, would be two weeks. That means surviving somewhere for fourteen days, perhaps longer. Operating on this premise, the three of us—myself, my wife Marjorie, and our four year old son, Reed—migrated to the woods to live off the land for two weeks, to study survival techniques and the impact they have upon our lives in the turbulent world in which we live today.

One of the perplexing questions which had to be answered before we started the test was: *What gun to take?* To make the test as realistic as possible, we had to analyze the general American population and its relationship with guns. Ours, we knew, was *not* a typical situation. As an outdoors writer and an inveterate hunter, I own a small arsenal of guns. But what about the average American? Probably he has one gun, perhaps two. What kind of guns? The majority would own .22 rimfire rifles. Maybe a shotgun, and maybe a big game rifle.

But from the beginning we visualized the .22 rimfire rifle, which has become sort of synonymous with shooting and hunting in America, as the basic answer to the question. This is the gun the average American is most likely to have around the house.

A Mossberg Model 350K, a semi-automatic in .22 rimfire caliber and equipped with a Mossberg Model A25 variable scope (2½X-5X), was our choice. Never once did we regret this decision.

Our survival site was in central Texas, on the Pat Rogers' Ranch where Honey Creek junctions with the Llano River. This is the so-called hill country of Texas; a land of gently rolling hills sprinkled predominately with scrub oaks and mesquite trees. We built our lean-to on a brushy flat near the spring-fed creek, a flat covered with elms and live-oaks and thorny briars. It was a good place for small-game hunting, this ranch near the small crossroads hamlet of Mason.

We lived primarily on cottontail rabbits and squirrels. The only part about the test we regretted was that it was not a true situation as the food supply went. Since rabbits and squirrels were the only game in season, we were limited to hunting these species. Several times we crossed the paths of white tailed deer and wild turkeys, and I'm confident that either would have been easy prey for the .22 rifle and the Long Rifle hollow-point cartridges. (This was a simulated survival situation, remember, not a sport outing.)

It was a rough and rugged two weeks. Since we had no cooking grease, our game had to be spit-broiled. To conserve ammunition—I had only two boxes—I hunted only early and late in the day, times when small game was most active and consequently more vulnerable to a hunter's gun. A couple of times I trudged in empty handed, a victim of circumstances and my own failures. It is a he-man chore, indeed, to face up to your family and tell them there will be no meat for the next meal. One thing about a test such as this: a man learns the true meaning of responsibility.

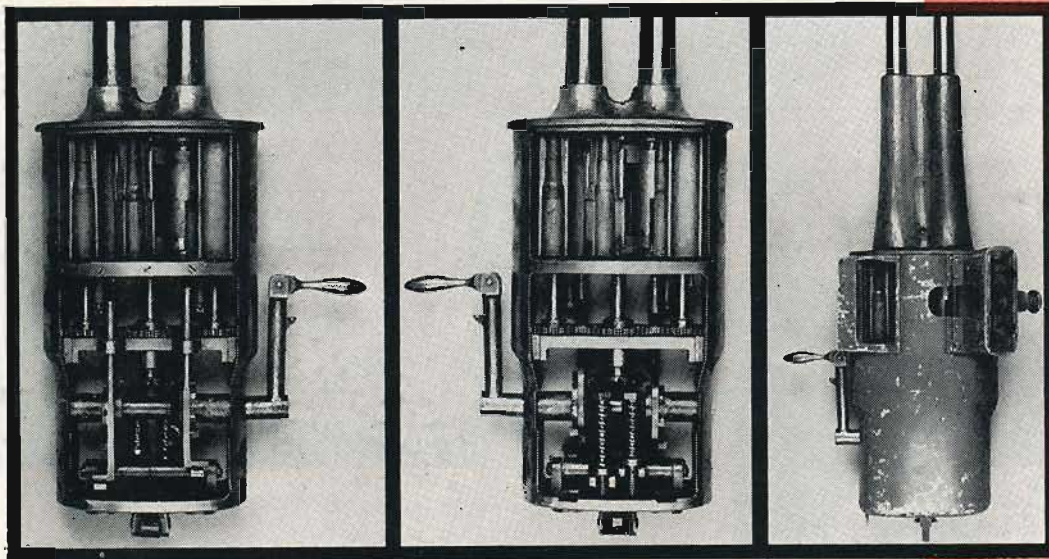
In all, I used 38 cartridges during the two weeks. Not once did I gamble on a haphazard shot. I didn't shoot at any running animals, nor did I shoot at any at ranges exceeding 50 yards. In such a situation, it doesn't pay to get careless. The cartridges are too valuable.

Now that I'm sitting in the (Continued on page 33)

GUN OF THE MONTH



SCORES OF EXPERTS HAVE GREETED
THIS GUN WITH OUR TITLE QUESTION.
WHAT READER CAN NAME IT?



Here are the specifications of the mystery gun that has stumped the experts: Caliber, .30-30 Winchester. Barrel length, 18 $\frac{1}{4}$ " including chambers. Overall length, 24". Weight, 10 $\frac{1}{4}$ pounds. Operation, hand crank. Action, non-reciprocating, split chamber. Feed, box magazine. Firing mechanism, alternate barrels, spring loaded cam-actuated firing pins. Mounting, unknown, possibly fixed mount for airplane use.

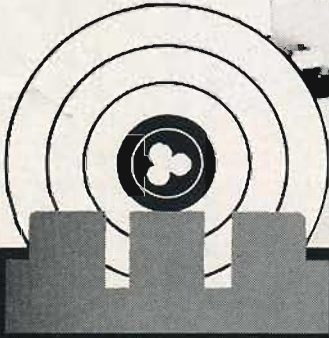
"WHAT THE HECK IS THAT THING?"

By CAPT. GEORGE C. NONTE, JR.

SOONER OR later, everyone who plays around extensively with guns will run across a real oddity. To say the very least, the twin-barreled piece of ordnance shown in the accompanying photos is an oddity! It is a one-of-its-kind piece so far as we know. It has been floating around Southern Illinois for some time now, and none who have seen it, including our august collecting brethren who gathered at the NRA Convention in St. Louis this year, have been able to shed any light upon its history. There are no identifying marks whatsoever on this arm—except that the barrels are Winchester Model 94 carbine tubes and still have original factory markings. Far from clarifying anything, this merely adds to the mystery. The gun itself bears no maker's name, no serial number, no proof marks.

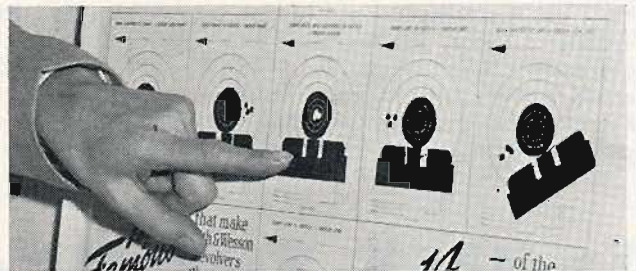
Basically, this is a two-barreled, hand- (Continued on page 57)





PRACTICE in your PARLOR

By HAROLD GLUCK



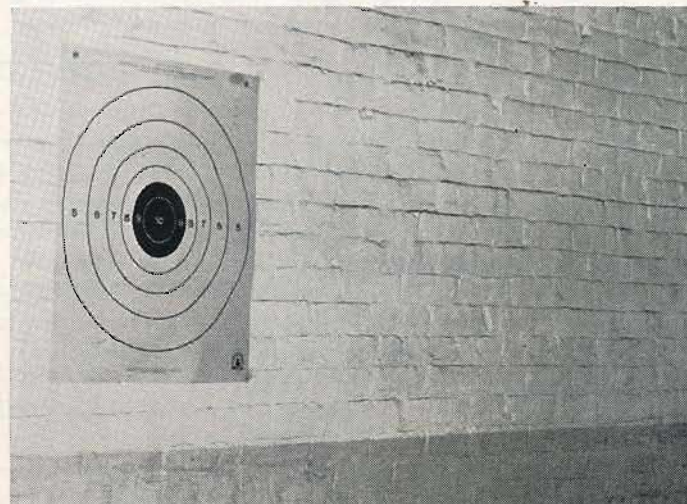
Fixing sight picture in beginner's mind is vital for good scores, will show him his holding errors.

ONCE THE PISTOL BUG bites you, you can't get enough practice. You want more because you enjoy it, and you need more for the sake of your scores.

But many times, for one reason or another, the pistolman can't get enough range practice, can't shoot at home for lack of facilities or because the police or neighbors would raise objections, and so loses interest because his scores are static. The fact is that he—you—can improve those scores without popping a cap, without range facilities. You can do it in your kitchen, or in your parlor.

First, check the pistol to be sure it's empty. If you're a pessimist, fill the chamber or chambers with empty cases to deaden the impact of the firing pin. (I've fired thousands of "dry" shots with my target pistols, and nary a broken firing pin; but some say you shouldn't.)

You're going to be standing on your two feet, so think of your shoes. Are they comfortable? You won't make



ARE YOU FINDING IT HARD TO GET ENOUGH PISTOL PRACTICE? THEN WHY NOT TRY PRACTICING AT HOME—NO POWDER SMOKE, NO NOISE

top scores if your mind is on your aching feet. . . . Are the heels run down? Run-over heels make your stance less firm. . . . How about your shirt? Does it pull, cause constriction, when your arm is up in shooting position? If so change it. These are little things, but so is the difference between a nipper ten and a close nine.

Wear a ring? Take it off. It may interfere with your grip on the pistol. Wear a wristwatch on your shooting arm? Take it off. It may reflect light that interferes with your sight picture. (Speaking of light, when you do go out to the range for serious shooting, wear sun glasses or a shading hat or cap, or both. Light can do weird things to your sights, and to your scores.)

Got a full-length mirror in your home? Stand facing it. Assume the position; your position. Your feet, hips, and shoulders should be about 45 degrees off the line of sight and 45 degrees back of the firing line, but that's an approximation. It's your body; place it the way it's most comfortable—being sure, however, that when your arm comes up to aim, there's no pull on any muscle. (Empty handed, with both arms at your sides, close your eyes and swing your shooting arm up to aiming level. Open your eyes. If you're pointing at the target, your feet are right. If you're pointing to the left, move your left foot forward a little; if to the right, move your left foot back. Don't correct by moving your arm; this is bound to put pressure on one muscle or another.)

Now take that empty gun and point it. Can't hold it motionless? Of course you can't. The members of the 2600 club can't, either. But hold it. Hold it for 20 seconds; 30; a full minute. . . . Tired? Sure. You're using muscles that need training. The reason the 2600 shooters can hold a gun more nearly motionless than you can is because they've trained those muscles. Train yours. For a few minutes every day, stand before that mirror and hold that gun at aim. Hang a camera or some other weight on it, to speed the process; or (Continued on page 51)



Sighting with empty .45 automatic on the T line target will be great help in spotting holding error or the wrong shooting stance.



Arm muscles need training to help you steady the gun on the target. Using steam iron or a grip exerciser regularly, will improve score.



It is the results that count. Dry firing practice, strengthening arm muscles by exercises pays off on the range when chips are down and points count.

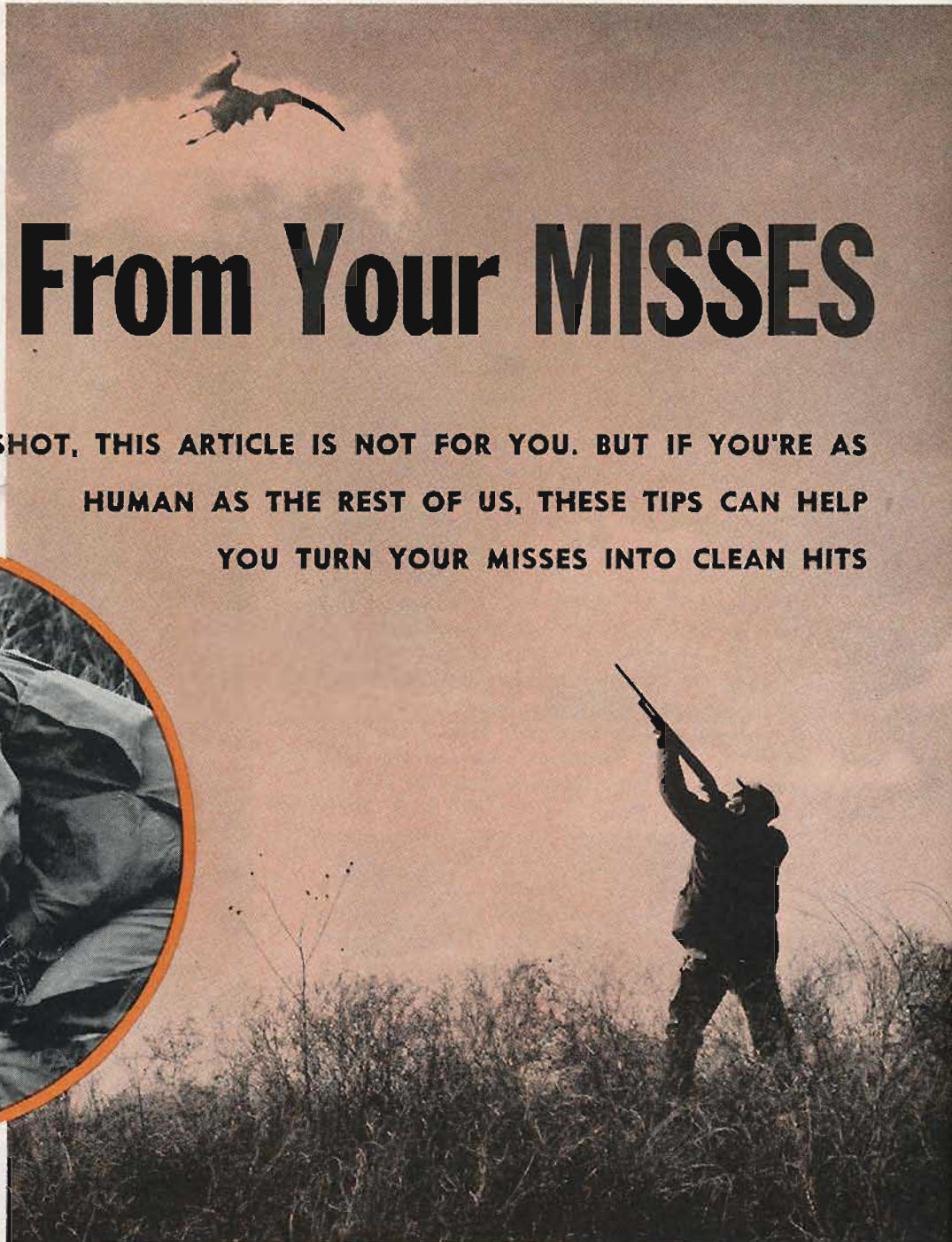


Learn From Your MISSES

IF YOU NEVER MISS A SHOT, THIS ARTICLE IS NOT FOR YOU. BUT IF YOU'RE AS HUMAN AS THE REST OF US, THESE TIPS CAN HELP YOU TURN YOUR MISSES INTO CLEAN HITS



Author found that he missed easy shots, made tough ones. Study disclosed the reasons.



No miss this time, as well aimed charge blasts a big honker out of his flight pattern. When misses do occur, study them for underlying causes.

By BYRON W. DALRYMPLE

THE PRONGHORN BUCK looked like a nice trophy and I decided to take him. The shot was a routine one, not really difficult. He was walking, fifth in a group marching "follow the leader." The range was possibly 125 yards; not more, maybe a bit less. A big Spanish bayonet was the only obstruction.

I said to myself, "When Mister Five steps past the bayonet, I'll lay him down." I had no thought of failure. After all, this was not my first big game trophy.

He cleared the bayonet. I put the sight on his shoulder and fired. He dropped, all right. But then he got up,

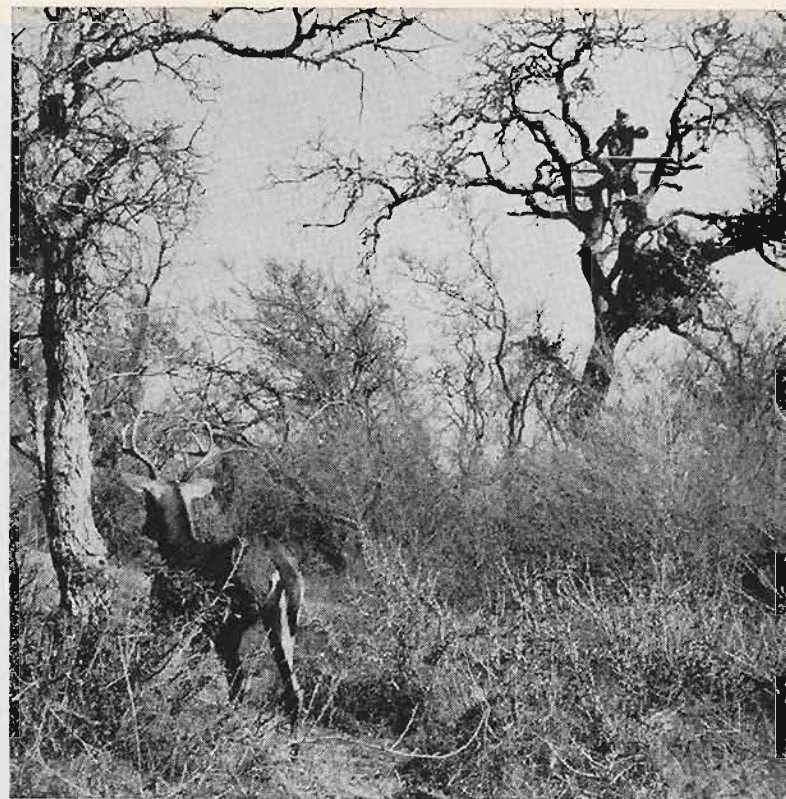
trotted a few steps, and stood, humped up and sick. I was disgusted with myself, anguished at making such a blunder—especially in front of several other hunters, two of them strangers.

I killed the pronghorn. But that first shot haunted me. That was a miss, in the sense that it had gone wide, shamefully wide, of my intention; worse than a miss in that it had caused a fine game animal to suffer. Why had it happened?

Well, I was shooting a new gun, different in length and balance from the one I was used to. But I couldn't blame



Flushing pheasants stand still at top of rise, and the author once went two seasons without misses with this knowledge. Shooting at steep angles, either up or down as this hunter does, is common cause for missing a target unless lesson is learned well and kept in mind.



this one on the gun. It was a tremendously accurate rifle, as I had proved on targets. It wasn't the scope, either; I checked that. What had I done wrong?

Seriously troubled, I went back in memory over my years of big game shooting experience. I focused on the bad shots, not the good ones—and a pattern began to emerge.

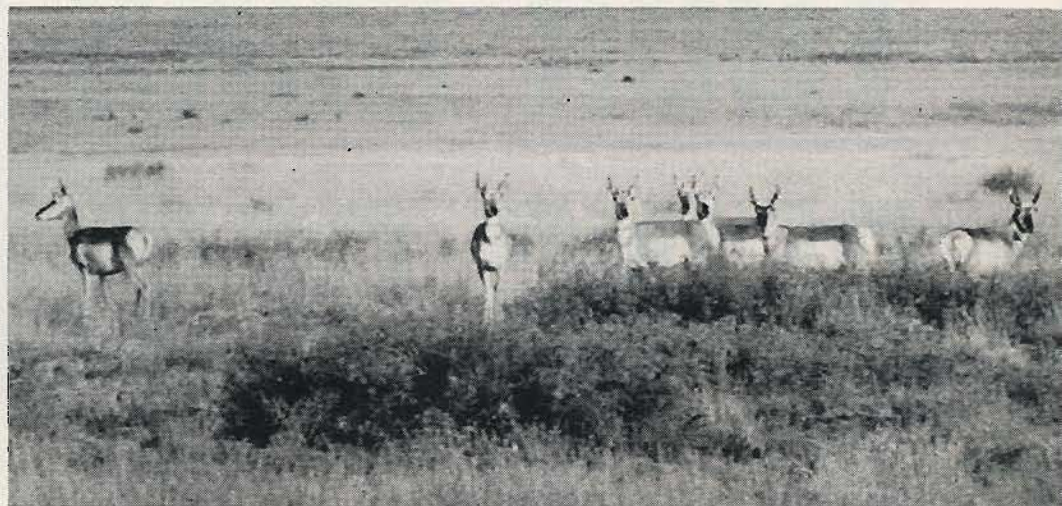
On the long shots, the hard ones, I had done pretty well. Even the running shots had been all right. But in altogether too many instances (a very few is too many!), the easy shots, close and standing, were the ones I muffed!

In each case, as in the shot at the antelope, I had simply thrown up the gun and fired. In each case (including the

antelope), the shot had hit well to the right of my point of aim.

Given this information, any target shooter would know the answer: I was jerking the trigger! Once the thought occurred to me, it was not surprising. Quick shots with a swiftly mounted rifle are not conducive to good trigger squeeze; and anyway, since I'm primarily a hunter and not a target shooter, my basic training in squeeze probably leaves much to be desired. On the long, hard shots, I was careful: steady hold, correct sight picture, hold a half-let-out breath, and—squeeze. But on the short, "impossible-to-miss" shots, I was tossing my rifle up and yanking it off like a gol-darned dub! *(Continued on page 41)*

In hunting ruffed grouse, don't worry about the bird and the trees that seem to get into the way habitually. Just shoot and let pellets worry about trees. Over-confidence in "easy" shots never pays off on standing, moving game.





Waste of taxpayers money is flagrant in the destruction of serviceable small arms which could and should either be stock piled or sent abroad to friendly governments who need these guns.

YOUR GUNS ARE BEING DESTROYED



These .45 ACP's are welded ruins; S&W below is reduced to junk metal under hammer.

**TIME WAS WHEN UNCLE
SAM WAS KNOWN AS A CANNY
TRADER WITH AN EYE FOR PROFIT.
TODAY, HE'S SMASHING SALEABLE
GUNS INTO CHEAP JUNK**



By WILLIAM B. EDWARDS

THEY'RE CHOPPING UP *your* guns today on orders straight from Washington. Tabbed as "surplus property," valuable pistols, rifles, carbines, and machine guns are being bitten in half by big shears, welded into lumps of steel, or smashed under hammers. And they're *your* guns; you paid for them with your tax dollars.

Prime offender in this mass destruction of small arms that should constitute a valuable stockpile for war reserve is the Air Force. But other Services are evidently not left out in this sudden scramble to junk existing small arms, directly in the face of the fact that our Armed Forces are not supplied by a procurement system capable of getting enough *new* guns.

Department of Defense and Air Force policies and procedures are contained in DOD Instruction 4160.15 dated 9 August 1960, and Vol. VI of Air Force Manual 67-1. These citations include methods for demilitarization or destruction of certain items. Among these certain items are perfectly good Smith & Wesson revolvers of the "Revolver, Lightweight, M13" type, supplied to the U.S. at a procurement cost of \$36 each. This price seems quite reasonable in view of Smith & Wesson not having to pay the excise tax on them, and the special cylinders with which they are fitted.

I obtained one of these guns from trade channels where they are now sold by gun dealers. The revolver I had was marked on the backstrap, "Property of the U.S. Air Force," and from the condition of the checkering of grips and perfection of blue on the backstrap, I would say it had been very little used. It bore a crew number "46" stenciled on the handle. But the whole pistol had been so battered and bent under the drop hammer as to render every part of it out of line and therefore useless. (See photos.)

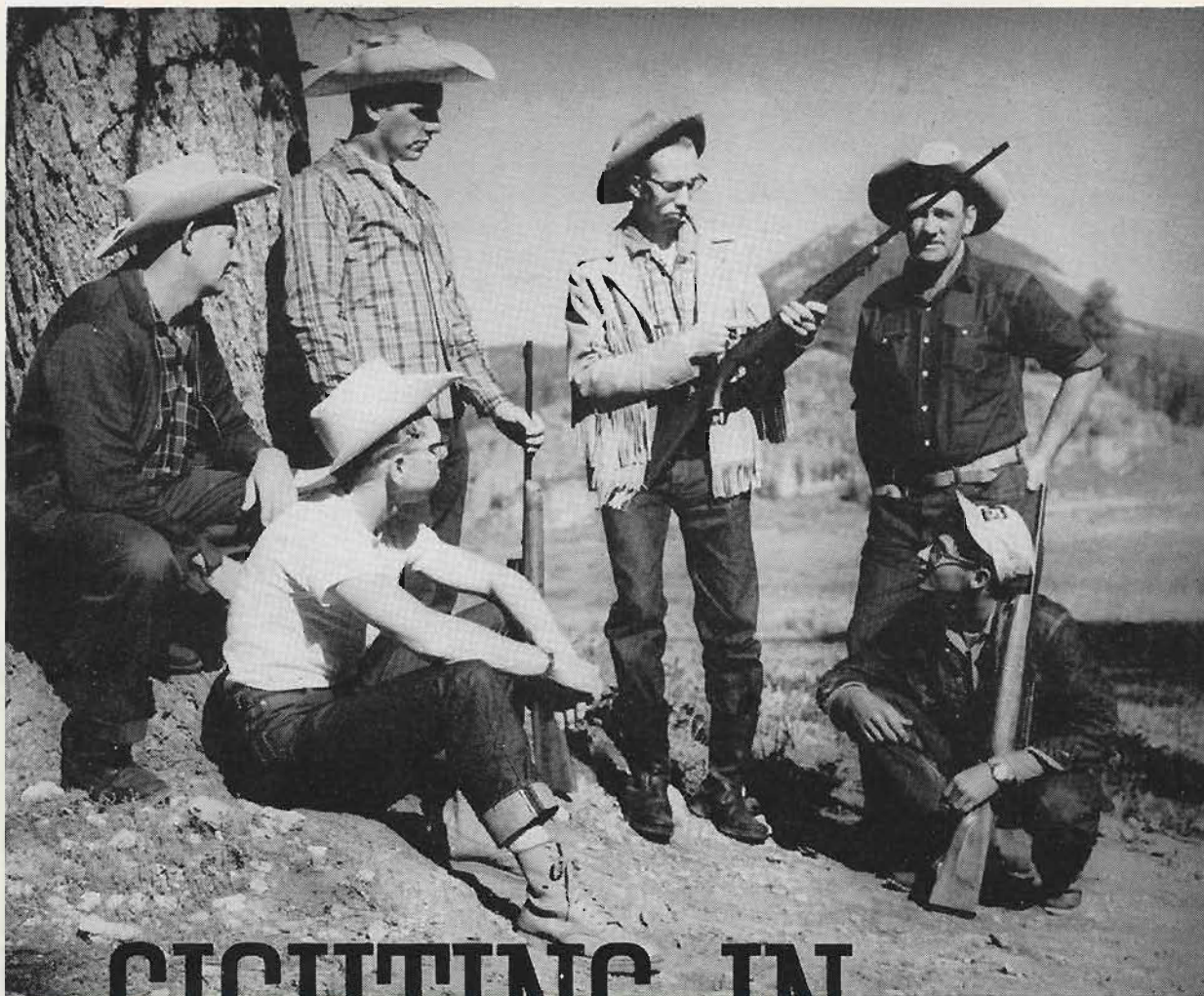
Though I had heard some rumors that the light aluminum cylinders were "unsafe," I was struck by the fact that each frame I examined was deeply impressed with the "P" for proof of the Government Inspector either at Smith & Wesson or at the receiving depot. The gun was intended for use with the Cartridge, Cal. .38 Spl. M41, a special light loaded round; but it apparently had been proof tested. Either as a collector curiosity or as a gun without a cylinder, I conjectured that these could have been sold for more than their scrap value, and so advised Senator Paul H. Douglas of Illinois when I had the opportunity to speak with him about this. Having mounted the pistol on a plaque for him to hang in his Washington office, I pushed it forward to him across the table. "Senator, take a good look at this," I urged, "This revolver has been smashed up by the Air Force."

Practically jerking the plaque from my hand, he said; "Let me see that!"

As we talked, the Senator recalled his own years as a hard-fighting Marine in the South Pacific, and I gained the impression inquiries would be made about firearms destruction by Armed Forces. I hope so.

That this sort of thing has been going on since War Two is not the important consideration. Important is the fact that destruction of good small arms which should constitute our War Reserve is going on right now. Said Senator Douglas as we parted, he to go hang the battered Smith & Wesson on his office wall, "Get me a memo on this and I'll take it up on the floor of the Senate." This article is by way of being that memo.

Right now, at places with names (Continued on page 37)



SIGHTING IN IS NO PROBLEM

**THE PROBLEM COMES
WHEN YOU DON'T DO IT, OR
DO IT THE HARD WAY**

By BERT POPOWSKI

WHEN ONE OF THE BOYS attending the North American School of Conservation on the K Bar Z guest ranch asked me to give them a talk about guns, I said I'd be glad to if there was time on the week's program. "Ask Chet Leichardt," I suggested. "He's making up the program and if he says okay, you got a deal. Right now, I'm going out to sight in this rifle-shotgun combination."

"What d'you mean, sight it in?" one of the boys asked me. "Didn't they sight it in at the factory?"

I'm not poking fun at this lad; an awful lot of "experienced" hunters think, as he did, that the sight-in target that comes with a rifle when you buy it is a guarantee that the piece will make clean one-shot kills on any game at which you point it. It's a fallacy that has spoiled a lot of hunting trips.

Later that week, I did talk to that group of NASC students. It was a once-over-lightly session, concentrating mostly on rifle accuracy, caliber efficiency, and the selection of rifles for specific game. Naturally after the above question, I emphasized sighting



in the rifle, without which even the best rifle can be an indifferent tool.

Sighting in a rifle is a highly personal business, both for the gun and the shooter. Very rarely do two shooters, even using the same rifle and ammo under identical conditions, manage to print their bullet groups in the same relative positions on their targets. They hold the rifle differently, maybe cant it this way or that, and get different sight pictures as they squeeze off their shots.

First, let's slay this myth that bore-sighting any rifle, especially a new one, is good enough. The fact that you can see your bullseye dead-centered through the bore of your rifle doesn't mean that its bullets will puncture the

10-ring. At relatively close range, the bullets may hit the bull—somewhere. But at long ranges, they may miss the whole target! It's a rare rifle that shoots where bore-sighting says it should, whether you're using iron, peep, or scope sights for the actual on-target or on-game firing.

When I'm at home I use a Y-shaped valley for most of my sighting-in shooting. One leg of that valley runs almost due north-and-south; another lies east-and-west. Thus, in one or the other, I can usually find a windless 100 yard stretch where, if there are any horrid bloopers in my groups, the blame lies squarely on me, the rifle, or both.

I've had a couple of comical experiences at that natural shooting range. One year, before the deer season opened,

Students of the North American School of Conservation come from many states and Canadian Provinces to learn their future vocations.

Located in fabulous settings of the Shoshone National Forest in northwestern Wyoming, the K Bar Z guest ranch is the annual host to summer camp students of NASC. Ranch offers fine fishing, hunting.



I was zeroing in a new .308, wearing the now-obsolete Weaver KV scope with Range-Finder reticle. I'd just fired my last shot of two three-shot groups when I heard a car throw gravel as it was braked to a stop beyond the low ridge behind me.

I suppose I may have provided a sort of surreptitious appearance as I hurried out of my shooting spot and headed for the creek at the valley's edge. But I got a corner-of-the-eye look at that car—a game warden's—and I couldn't resist the temptation. Just for the hell of it, I pretended not to see him. I hustled over to the creek, looked carefully up stream and down, and then dropped out of sight behind the cutbank.

About three minutes later, here comes the warden. And there I sat, innocent as an angel, smoking a cigarette. After he got through good-naturedly blowing his cork, we examined my targets, and he did his doggondest to dicker me out of that .308. It was strictly no dice. That rifle-and-scope combination was a favorite of mine for many years and harvested over its share of elk, antelope, whitetails, and mule deer.

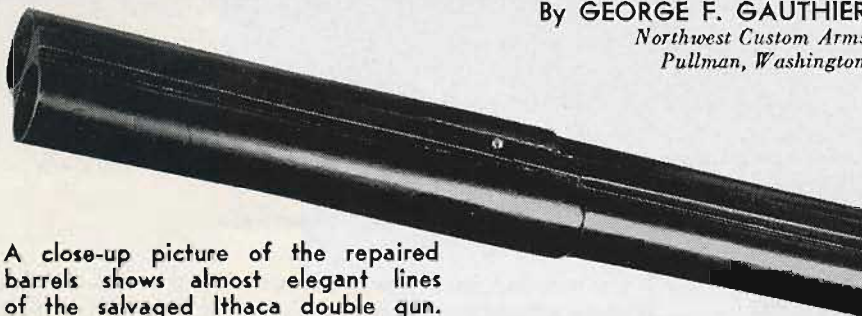
(Continued on page 54)

GOT A PET SIDE-BY-SIDE WITH A BLOWN BARREL? DON'T DISCARD IT. HERE'S HOW YOU CAN



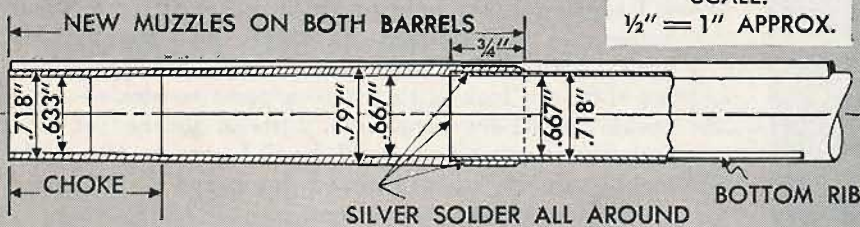
Salvage That Double

By **GEORGE F. GAUTHIER**
*Northwest Custom Arms
 Pullman, Washington*

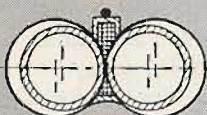


A close-up picture of the repaired barrels shows almost elegant lines of the salvaged Ithaca double gun.

SECTION THROUGH LEFT BARREL



MUZZLE VIEW



Note—Dimensions shown are for 16 ga. full and modified choke. For other gauges and chokes, see tables on shotgun bore and choke dimensions. Ream both barrels to tightest choke desired and polish right barrel for less choke as desired. This will eliminate necessity of two reamers.

IF YOU SHOULD blow up a few inches of the muzzle of your single barrel shot gun, due to an obstruction in the muzzle, you stand an even chance of coming out of it with a better gun than you had when you started. In most cases, your gunsmith will cut off the muzzle at a point behind the damage, and install one of them there

fancy "store bought" adjustable choke devices with a recoil brake. Or if the barrel is only bulged, I have ironed out such bulges with the same expanding mandrel I use for smoothing out dents. Another alternative with the majority of singles is a new barrel.

But with most doubles, it is a different story. Some of the finest doubles still in use are not manufactured any more. Replacement of barrels by the factory is impossible, because factory assembled barrels are no longer obtainable. Assembling a pair of barrels is a job beyond the ability of many gun smiths; and when you find a shop equipped to do a fine job, in many cases the value of the gun will not warrant the cost of the repair.

Such was the case of a 16 gauge Ithaca recently brought to my shop. The gun was in excellent condition, and it was a gun that had cost around \$100. A letter from the factory informed me that manufacture of that model had ceased in the '20's, and all parts were sold out years ago.

The wall thickness of the tubes averaged minus .029", being a little heavier at the choke. The muzzle of the left tube had blown wide open, due to some snow getting scooped into it when the owner fell, just before firing at some ducks.

It seemed a pity to junk the gun if repairs were possible and the price of repairs within reason. There was nothing to lose and a lot to gain. The barrels were 28" and 51 1/2" had to be cut off to eliminate the longest fracture.

At 51 1/2" from the muzzle, the tubes were far enough apart to allow sleeves of .046" to fit over both barrels and just fit together between the barrels.

Two new tubes were made, each one 6 1/4" long and .092" greater in diameter than the O.D. of the barrels. A reamer was made to ream both tubes to the same I.D. as the barrels and leave a full (Continued on page 36)

OUR TARGETS ARE TOO EASY



Marine Corps Sergeants Ainscoe and King, both from California, fired their .300 Magnum match rifle 400 times during competition, each shot scoring five or five V.

TODAY'S MATCH SHOOTERS MAKE STANDARD TARGETS LOOK SILLY. HERE'S WHY, AND HOW WE CAN CORRECT IT

By COLONEL
JIM CROSSMAN

LET'S PUT our guns aside for a moment and take a good look at our competitive targets. The high-power rifle 5 ring, and the smallbore 10 ring, are mostly elimination areas. If you get a shot outside the 5 or the 10, you might as well pick up your gear and go home, since you have just shot yourself out of first place competition. The chances are that it will be won by a possible, particularly in a tournament of any size.

We recognized that our targets are generally too easy when we adopted the unhappy expedient of the "V" or "X" ring to break the frequent ties. While you have to work harder and shoot better to get a "V" or an "X," it won't do you a bit of good unless you also have the numerical score, which reverses our usual procedure for evaluating a shot. Take the case of the man who puts 9 shots in the "A" target's tiny 4 inch "V"

PERSONNEL IS EXPERIENCED...

EQUIPMENT IS TOPS...



TROPHIES ARE GOOD...



Many shooters, especially the military, habitually make the rounds of the matches, can score without much effort on targets which are easy for them, but not for others. Improved targets are needed.

ring, but lets one shot leak just out of the black for a close 4. He will lose the match to the man who sprays his 10 shots all over the big 12 inch 5 ring, just barely cutting the black. So here's a fine 9-V 49 losing to a no-V 50. Sure, this is an extreme case; but how many times have you seen a man lose a match by a point, even though he considerably out-V'ed or out-X'ed the winner?

Targets too easy? They are for the hot competitors, even if not for you and me. Let's look at a few results from the 1960 National Matches.

In the 200 Yard Warm-up Matches (20 shots, 200 yards, sitting, rapid fire), out of 2395 competitors, 282 (12%)

scored possibles. For many, this is a tough position.

In the 600 Yard Warm-up Match (20 shots, 600 yards, prone, slow fire), out of 2399 competitors, 122 (5%) fired possibles.

In the Pistol Timed Fire Matches (20 shots, 25 yards, timed fire), out of about 1880 competitors, there were 20 possibles, .22 caliber—3 possibles, center fire—and 1 possible, .45 caliber.

In the 50 Yard Smallbore Rifle Any-Sight Match (40 shots, 50 yards, prone, any sights), out of 553 competitors, 174 (31%) fired possibles, and in the 50 Yard Any-Sight Match (40 shots, 50 yards, prone, any sights), out

RANGES ARE EXCELLENT BUT TARGETS ARE OUT-DATED



Superior equipment and range facilities make it possible to fire better scores than ever.



Gen. Pate and TSgt. Pietroforte admire the perfect 250 points, 23 V's scored by the latter during Perry meet.

of 564 competitors, 156 (or over 27%) fired possibles.

Taking a little closer look at that last 50 yard match, we find that of the 156 possibles, almost 100 of them were jammed into the narrow bracket of 31 to 39 "X"s. In a situation like this, you try to break ties by an elaborate Creedmore system, operating on the theory that a 10 in the first part of the match isn't such a crime as a 10 later on. And when you get through working this tie-breaking procedure as far as you can, you finally have to throw up your hands in despair, because you still have so many ties remaining.

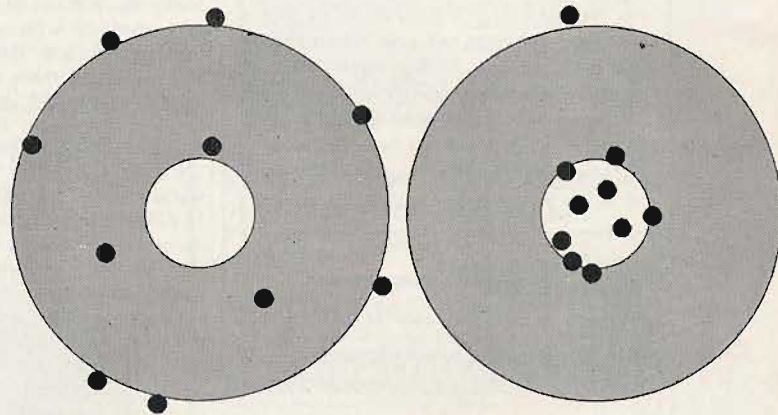
I'll grant that the National Match competitors probably average higher classifications than in the little local shoot. But the bigger and more important the match, the more nearly I suspect it approaches the Perry average.

Let's look at the scores required for classification. In smallbore prone, to get a Master card you must average 99 or better out of 100. The Expert card takes an average of 98 to 99, and the Sharpshooter must score 97 to 98. There are only 3 points separating an average low-Sharpshooter from a possible score, and only a bit over 2 points separating a high Marksman from a low Master average.

Aside from the addition of the "V" or the "X" rings (and a few other minor matters), our competitive targets have remained pretty much unchanged over the last 40 years or so. In most fields, shooters and equipment have vastly improved. In some cases, the changes in the targets have been for the worse, rather than the better. The military targets used for high power now have only 3 scoring rings: 3, 4 and 5. The smallbore 50 and 100 yard targets have only 6 scoring rings, the 4, 3, 2, and 1 rings having been lost in the shuffle. The 25 and 50 yard pistol targets are in the same state.

If we are going to use only one target for all classes of

shooters, the lowest value ring should be large enough to hold most of the shots of the beginner or the poorer shot, to keep him from getting too many of those discouraging misses. Within this biggest ring, we should have many closely-spaced rings. How many? As many as practical! The 100 ring target, occasionally seen indoors, is a good example. No more of this "close 9" or "wide 9" business. On this little target, a "wide 9" will move you several rings, and you really get the value you deserve for each shot. With this, you will have to plug more often, and the score addition may be a bit more difficult, but—you are getting just what you deserve, (Continued on page 48)



Which is the better score? Most everybody would be delighted to have fired the group at the right. But the target at left, despite the fact that no V's were registered, would win, since the point score is 50, while score on right target is only 49 because of the "flier."

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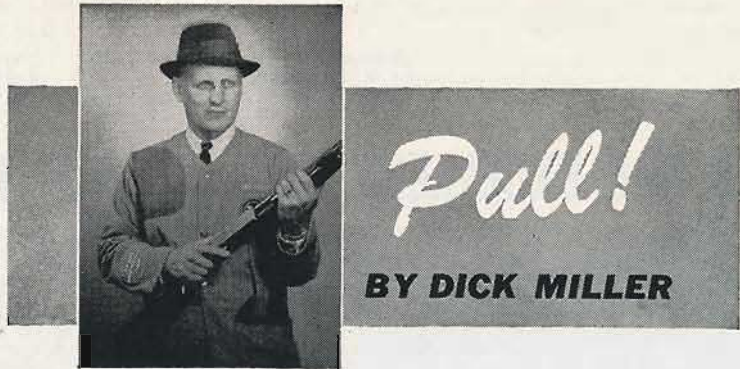
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BOB SHULEY, the amazing youngster from Roselle, Illinois, who won the 1959 National All-Gauge skeet championship, didn't win the big one this year, but you knew he was on the grounds! At Harold's Club, in Reno, Nevada. Bob won no less than five individual titles, for the brightest individual performance in the skeet nationals. His trophies were: Junior All-Gauge Champion—248x250; Junior High-Over-All Champion—543x550; National Sub-Small Gauge (2½ inch .410) Champion—99x100; National Junior Sub-Small Gauge Champion—99x100; and National Junior 20-Gauge Champion—99x100.

But this brilliant performance was followed by a tragic accident enroute home from Reno. Bob was a passenger in a car driven by his Dad, All-American skeet gunner, and member of the GUNS advisory board on skeet shooting, Al Shuley. With the Shuleys were two more great junior champions, Dan Niederer and Dave Hussey. A truck turned into the Shuley car, near Monticello, Utah, and drove it from the road. Neiderer, who had just won the National Small Gauge Junior championship, with 97x100, was killed. Bob Shuley suffered the loss of some teeth, and was severely cut. Dave Hussey received a broken arm, and Al Shuley is back at work after suffering nine broken ribs and a severely cut right arm.

Pull! and all the nation's shooters extend sincere condolences to the families involved. Bob Shuley is back to shooting, and entered three events in the Illinois state shoot, with less than the usual success, which we can understand.

Peter Candy, last year's All-Gauge winner, broke the 250 straight this year, but lost out in a shoot-off with winner and fellow Californian, William Hay Rogers of Atherton, and Allen Buntrock of Patuxent, Maryland. Rogers broke 275 straight in the shoot-off, topping Buntrock's 274x275. Candy posted a 224x225 in the shoot-off.

Candy kept alive a long run, and new world's record, of 1141 consecutive broken 12-gauge targets (shoot-off targets are not counted in long-run records. Only targets shot in the main events of regulation distance contribute to long-run statistics).

Candy also won the High-Over-All Championship, with 546x500 (includes 100 each .410, 28 gauge, 20 gauge, and 250 all-gauge targets). This ties the world record in this event, set by professional D. Lee Braun in 1947, equalled by Braun in winning this year's Professional High-Over-All championship, and also by Rogers in the 1960 skeet nationals.

Mrs. Max Thomas, Dallas, Texas, won the Women's High-Over-All with 535x550,

the Women's All-Gauge with 246x250, and the Ladies 20-Gauge title with 99x100. Kathleen McGinn, of Houston, Texas, won the Ladies Sub-Small championship with 94x100, and another Kathleen, Kathleen Fitchett of Baltimore, Maryland, took the Ladies Small Gauge (28) title with a perfect 100 straight.

Lt. Jim Clark, Ft. Benning, took the men's small gauge title, also with a perfect hundred, plus 50 straight in a shoot-off. Veteran Andy Laird, Stockton, California, was extended to extra innings of 125 targets after a perfect century in the main event, in winning the National 20-Gauge Championship.

Miner Cliett, Childersburg, Alabama broke 'em all in the 100-target Champion of Champions event, with an entry list restricted to state, provincial, or territorial champions, returned by earlier tournaments. The Champion of Champions race requires each shooter to record 25 targets in each of the four gauge classifications, sub-small, small, twenty, and all-gauge (usually 12 gauge) events. 309 hopefuls competed in the 250-target All-Gauge events. 207 entries toed the mark in the 20-Gauge scramble, while 183 gunners settled the 28-Gauge title, and 174 brave souls had more or less confidence in their ability with the little 2½ inch .410 shell in the Sub-Small Gauge race.

As might be expected by noting the number of California home addresses in the winner's lists, the Californians took the team championship to the West Coast for their score of 1242x1250.

The 1962 Skeet Nationals will be held for the first time North of the border, in Montreal, reflecting the great Canadian interest and support for all forms of clay target competition.

Speaking of Canada, where live many GUNS readers, if our mail is a criterion, word comes that the Edmonton Gun Club's membership drive brought 149 new members. F. H. McLeod won a shotgun for bringing in 43 new members. H. Lister with 31, Ed Shaske with 20, and W. Hodgkinson were other prize-winning recruiters.

The Edmonton Gun Club Bulletin lists winners in the North-Western Open Trap Championship, held on the home grounds. They were: Ed Keats, Jim Finlayson, Hugh Cram, Keith Blanchett, Jack Simpson, Bill Girgulis, Ford Osborne, Mel Dobson, Ed Keats, Ron Baker, Cec Coultry, Harold Lister, Tom McKinley, and Floyd Nattrass, who had a good year at the Grand American, subject of next month's Pull! column.

New members to the Edmonton Gun Club 100-Straight Club are listed as Ed Shaske, Felix MacLeod, Jim Platz, Butch Schlender, and Art Dory. Youngster Jerry Platz also

rates a mention for his first 25 and 50 straight, in the North-Western tournament.

The writer, in company with Bill Heystek, recently enjoyed a Tuesday night visit to the Thornton Gun Club, on Chicago's South-East side. The Thornton club is an active two-trap layout, drawing heavily from industrial trapshooters in the Chicago area and from the near-by Calumet area of North-west Indiana. The occasion marked my first attempt in three years to fire my trap gun by pulling the trigger instead of releasing it. I only fell off the post twice, while trying to decide whether to pull the trigger, or let go of it. Otherwise, the evening was both enjoyable and successful.

Perhaps only clay target tournament shooters will dig the following news item, but, for the record, here's how it happened.

During the 1961 Grand American trap-shooting tournament, Dick Downing, Akron, Ohio, cashed a check for \$600 at the cashier's window, walked from that window to the shell house, bought his shells, then made his way to the firing line.

Noticing a smudge on his gun's muzzle, he whipped out his handkerchief and re-

moved the offending smudge. While replacing the handkerchief, he discovered that his bill-fold, with the \$600, credit cards, identification, etc., was missing. But it was time to shoot, he didn't want to hold up his squad, and besides, there was the business at hand of breaking targets.

Most of us would have yelled "stop the proceedings," and loud! But not Dick Downing. He shot the program, albeit a mite shakily on the first trap. Then he made his way to the shell house, and asked in a small voice if a billfold had been found. One had been, by a surely underpaid English teacher, and was returned to him, contents intact.

When I talked to Dick, he was filled with the milk of human kindness, and overflowing with pride in the honesty and integrity of the genus trapshooter, as well as the teaching profession. He was also unhappy about missing a target on that first trap.

It's true, and it happened in the Grand American, where almost anything can, and does, happen, year after year. Where else can you find kids not yet in their teens, women past sixty (and admitting it), and men 82 years old winning major sports championships side by side?

Stories next month.

GUNS FOR SURVIVAL

(Continued from page 18)

comforts of my office, eating store-bought food again, I can reflect on my experiences. I learned some enlightening facts.

To wit: *The ideal survival weapon, I believe, is the scope-sighted .22 rimfire rifle.*

I'm not making this claim just because this type rifle happened to be my savior during the two weeks test. During those fourteen days I had lots of time to think and judge. One of the questions which I pondered seriously was: Would any other weapon have done the job as well, or better, than the .22 rifle?

In my judgment, no. Here are my reasons, taking each gun individually and listing its assets and drawbacks.

Big game rifle: Definitely ruled out, since the primary survival food undoubtedly will be small game. Also, the cartridges are too bulky and loud. Yes, the muzzle report is important. In a true survival situation, a person will want to be left alone. People, hungry and edged with panic, will lose all decency and self-respect. If they have no guns, they'll prey on others who do. In order to live, they won't hesitate to steal, perhaps

even kill. A person stands his best chance going alone, accompanied only by his immediate family.

Handgun: Not a good choice as a food-getter, because anything it can do in the way of survival, a rifle can do better. Other than portability, concealment and close-range defense work, the handgun has no advantages over the rifle. In the field where each shot is important, it is logical to sacrifice these minor advantages to accuracy. If you want a handgun for defense, fine. But for small game shooting, most people will do better with a rifle.

Shotgun: Perhaps. My eventual choice boiled down to these two, shotgun or .22 rifle. But what could a shotgun do that a rifle couldn't? Kill birds on the wing? Certainly, but this is sport shooting. In a survival situation, sportsmanship is just another meaningless word. A shotgun is deadly on animals at short range, and the average person can kill better with a shotgun than he can with a rifle. But the .22 rifle has it beat on range, and in the way of ammuni-

(Continued on page 36)

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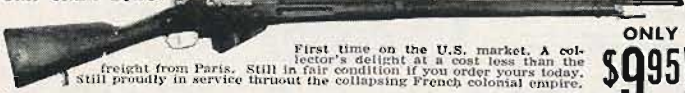


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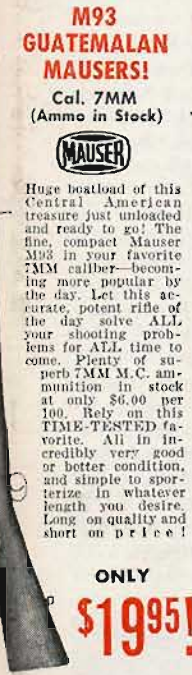


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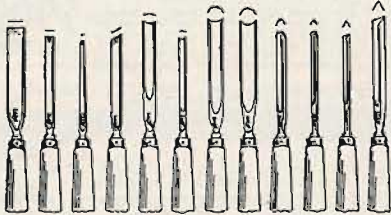
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(Continued from page 33)

A dandy survival gun, I decided, would be one of those Savage over-and-under guns, a combination of .410 shotgun and .22 rifle. But just taking the two as separate guns, I picked the .22 rifle. The shotgun enthusiast would have to make the decision of small shot, like No. 6, over larger and more potent shot like No. 2 or buckshot. Which would he pick? The smaller shot would be better for birds and small game, but the larger shot would be more suited to deer and larger game. A combination of both? Maybe. But that's still not enough to sway my decision.

I look at it like this. A man can work up a survival kit with all the basic necessities like fire-making materials, rope, and medicines, and he can include a dozen or more of .22 ammo without having an overly large and bulky package. That same man, if he is any kind of hunter at all, can survive for several months on 500 rounds of ammunition. Try packaging five hundred 12 gauge shotshells in a compact, easily carried package. Compactness is a strong argument for selecting the .22 rifle.

A scoped .22 rifle is an accurate gun. The patient hunter can kill just about anything found on the North American continent with it. Even an elk or bear can be taken if it is shot in the right place. But since the range of these larger animals is limited, we're more concerned with those that are universally scattered across the United States, critters like rabbits, squirrels, and deer. A deer shot in the head or neck, or even the heart, can be killed with Long Rifle ammo.

Actually, the scope isn't needed. It's just another plus advantage. Should it become damaged, the iron sights can be pressed into service in short order.

Of all the animals I shot, not one escaped after it had been hit solidly with the Long

Rifle hollow point bullet. I missed a few shots, some of them ridiculously easy; hunger puts the pressure on you. But the ones I did hit went down and stayed down.

Meat is the basic ingredient in the human diet. It is the foremost consideration. There are other things which grow wild in the woods that can be served with it, but there is no substitute for meat. In addition to small game, we ate things like watercress, pecan nuts, and wild onions. The wise woodsman knows his plants, which ones can and which ones can't be eaten. This is just good common sense. This knowledge isn't just for an atomic survival situation. Perhaps someday he'll become lost in the woods, a time when he must fend for himself. This kind of education comes in mighty handy.

There are other things I learned on this survival test, other than the .22 rifle being the best gun. I learned, for instance, that many of the things we have accepted as necessities of life really aren't so important after all. I learned that man must have faith in himself and his abilities. He must take positive attitudes. He can't start worrying himself with his negative points. To do so is only the first step to ultimate defeat.

But there is one lesson I value among all others. I gained a healthy new respect for the gun and the role it plays in our American heritage and way of life. The gun is important. Perhaps someday in the not too distant future it may become even more important. That's why I'm going to fight any gun restricting legislation with all the resources at my disposal. The gun isn't just a sporting tool. It is needed in our society.

I feel a lot better, knowing that I've got a reliable survival gun standing by, ready to serve me should I ever need it. Take it from a man who speaks from experience, that's a mighty satisfying feeling!

SALVAGE THAT DOUBLE

(Continued from page 28)

choke at one end of each tube. Each tube was then counter-bored $\frac{3}{4}$ " to a snug slip-fit over the squared end of each barrel. The new tubes were made of an old automobile drive shaft, as such steel is tough and machineable.

Before reaming, both new tubes were turned down, at the choke ends, to the same O.D. as the barrels. This dimension was carried back approximately 4", then gently tapered to meet the major O.D. about $\frac{1}{4}$ " forward of the $\frac{3}{4}$ " long counter-bore. The new tubes were then polished.

Stove-pipe wire was wrapped around the barrels about 3" back from the cut and squared ends, and also about 6" back. The wire wrapping was made good and snug. Then steel wedges were made and driven between top and underside ribs to keep the barrels and ribs in original alignment when heated. Four inches back from the barrel ends, a wet rag was wrapped. A torch was applied to the barrels till the ribs could be

separated for a couple of inches back from the ends, and the ribs were held away from the barrels with a very small nail between barrels and ribs, about $1\frac{1}{2}$ " back from the ends. While the torch was going, the ribs were salvaged from the $5\frac{1}{2}$ " lengths of barrel that were cut off.

The new tubes were then heated on the counter-bored ends, flux was applied to the inside of each counter-bore, and each counter-bore was thinly coated with silver solder. The outside of the ends of the barrels was also wiped with silver solder for $\frac{3}{4}$ ". The new tubes were then heated, one at a time, and driven into the barrels, using a plastic, wood, or lead hammer, and the tubes and barrels kept hot till lined up, fit tight against the shoulders of the counter-bores, brought together at the muzzles and held there till the silver solder cooled enough to set.

All solder was filed and polished from the outside of each barrel, and an extension handle was used with the reamer so the reamer

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could be inserted from the breech end of each barrel and the joint reamed clean.

Very fine emery cloth was wrapped on the end of a 1/2" dowel, the other end clucked in the lathe (an electric drill would also work if it doesn't turn too fast) and the inside of each bore was polished from the breech end. The dowel was gradually pushed into the choke of the right barrel till it was polished out to modified choke. Both barrels were finish-polished with crocus cloth on the dowel.

A very thin abrasive wheel was chucked in the high-speed hand rotary tool, and the ends of the ribs were ground out along each side to fit neatly between the bulged ends of the new tubes while the ribs also fit back in place on the original barrels. A flat Swiss file would serve in place of the grinder.

When the ribs were made to fit back in place, they were wedged down tightly with more wire and thin, tapered, steel wedges. Then the 5 1/2" lengths of rib which were salvaged from the short pieces of barrel, were retinned with 95-5 solder. The new tubes were also tinned, using a rosin flux (to eliminate after-rusting) where the ribs were to fit. The short pieces of rib were then wired and wedged into place and butted snug against the original ribs. The torch was then applied to the barrels and with some more solder, everything was soldered into place.

After cooling, an old knife blade was employed to scrape off all solder from outside

the joints as thoroughly as possible. The little hole between the ends of the new tubes was soldered shut, and a heavy wire brush chucked on the grinder shaft cleaned off all remaining solder from the barrels and rib joints.

The whole job was then polished, first with coarse abrasive, then fine, till all unblued parts looked like polished chrome. Then the barrels were degreased and blued with cold rust blue. A good express blue will also duplicate the original finish.

I got a paragraph ahead of myself because the gun was proofed with a couple of good, stiff hand loads, duplicating 2 3/4" Magnum loads, before wasting time on polishing and bluing. It was also tried for pattern and damn me if it wasn't as good as, and probably better than new.

Damn me a second time if it isn't a pretty neat lookin' contraption, too. Made me and the owner grin a little when we held it off at arms length and took a good squint at it; but it doesn't look a bit more unsightly than that big knob that guys pay a fancy price to have stuck on the end of a single.

The whole job took a little over eight hours to do, salvaged a good gun, and cost a helluva lot less than a new one.

I didn't experience any problems while doing the job that any gun smith or hobbyist should have any difficulty with, and I did get a lot of satisfaction out of salvaging that nice old Ithaca.



YOUR GUNS ARE BEING DESTROYED

(Continued from page 25)

that ring like those of the Old Frontier, the New Frontiersmen seem bent on accomplishing the virtual disarmament of our tactical and domestic land forces. Intentional or not, the facts are that Ellsworth Air Force Base, Rapid City, South Dakota, has been the site of mass destruction of Smith & Wesson revolvers. At Herlong Ordnance Depot, California, M1s, Carbines, Thompson Submachine Guns, and shotguns of all types are being destroyed by being chopped into 8" lengths with metal shears, then piled and burned and the remains sold as scrap iron at \$21 a ton. The metal of an M1 Carbine weighs say 5 pounds. M1 Carbines are selling today at \$80, but a used one can be bought for \$50. Procurement cost during WW II was about \$30-\$35. It takes 400 M1 Carbines to make a ton of scrap: a reduction in value from \$20,000 to \$20. . . .

I got one of the M1A1 Air Force Carbines which are being destroyed now by burning up to five or more holes in them. Not one part save perhaps the front sight was useable. My gun, Quality Hardware No. 1646460, was apparently new to judge by the protective wrapping at the muzzle; but it was torched beyond repair. I forwarded this little gem to Congresswoman Marguerite Stitt Church, Republican Representative from Evanston, my home town. Mrs. Church is pretty astute about such things: while her questions are being answered by the appro-

priate departments, she passed the relic on to Congressman Bob Sikes, Democrat of Florida. Mr. Sikes is well known as an experienced gunner and not one to take the quick negative answer if a more positive answer will prove better for his constituents. He, too, now wants to know why these guns were cut up.

An official Air Force spokesman stated, after the Carbines were destroyed, that they "probably could be transferred to the Navy." This was in response to my question if this could be done: for the Navy has no such requirement to "demilitarize" small arms, and often realizes a pretty penny from "surplus scrap" by selling good, useable small arms or small arms components to sportsmen and dealers.

If the Navy wants to dispose of guns, there are some reasonable ways to do this. About a year ago, I learned that "they are dumping Springfield rifles into Lake Michigan up at Great Lakes Naval Training Center." Investigating in response to Mrs. Church's urgent telegram seeking full information, I determined that most of the guns being junked were low serial number '03s, which to some ways of thinking are dangerous due to inferior heat treatment of the receivers. Oddly, they were scrapping the metal and salvaging the wood, though what salvage value the Navy found in old walnut Springfield stocks I could not determine.



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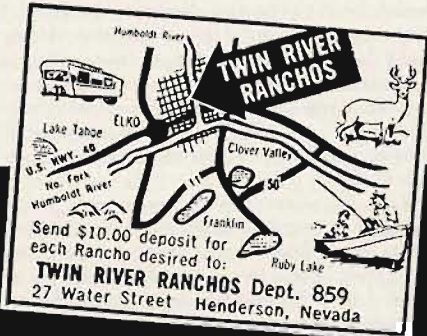
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But apparently the inquiries, which suggested there might be customers for these guns, put the idea into the right channels, for the Commanding Officer called in the available Springfield Rifles in the Ninth Naval District and put them up for sale. I was told by the buyer, Martin B. Retting, of California, that they totalled about 9,000 guns. These were not all complete guns, either, and the price realized for such items including receivers stripped with barrels sticking in them, was about \$17 each. Only Mr. Retting's possession of a pile of otherwise worthless new components bought at scrap prices made it possible for him to pay actually more than "list price" for incomplete guns. But the Naval officers responsible for this smart piece of work deserve kudos for their enterprise.

Since then, Great Lakes regularly puts out Springfields, stripped of wood but otherwise complete, at the nominal price of \$10 each. But, of course, the Navy is not bound by Army Regulations that require "demilitarization." The difference in value is about \$4000 per ton of salvage Springfields as against \$21 for scrap: net profit to the Navy of \$3979 per ton of Springfields sold. The government should be this businesslike every day!

The usual fate of condemned arms is in the furnaces over at Gary. My first brush with this fantastic waste program occurred about 1950 when a friend employed as a fireman on the Belt Line Railroad told of seeing two cars loaded with brand new .45 automatic pistols in boxes, under Army guard, being shoveled into the furnaces. I told him to get me a gun, get a serial number, anything, and we'd try to stop it. But the soldiers were guarding the pile too well, since the guns evidently were not "demilitarized" and were still serviceable.

At that time, it may be of interest to domestic arms makers (who bet a pile of dough on Research and Development in connection with our aborted 9 mm pistol program) to know the real reason why the 9 mm project was terminated. In the words of then-Defense Secretary Wilson, we had enough .45s already on hand. . . .

. . . which we were then busy burning up! The destruction goes on, at base and arsenal and depot. But not always do the omnipresent Army Regulations influence the total scrapping of smaller lots of arms. Back in 1951, I returned from scouring the depots of Europe for rare collectors guns with 12 Smith & Wesson's of the very first Navy M1899 type, almost unheard of rarities. I sold them, but then I noticed other collectors began to turn up with similar guns that were not mine: the U.S. Army issue of Smith & Wesson's first model, also 1899. Only recently did I learn the facts. They came from Red River Arsenal, Texas.

An ordnance officer who was also a collector was stationed at that base and prevailed upon the Commander or Salvage Officer to offer these fine old collector curiosities. They were of a dangerous pattern: the straight-bored chambers might accept a Magnum cartridge, and they were probably shaky even with .38-44 Hi-Speed loads; but the Arsenal sold them off to officers at the price of \$12 each. While this might seem low, it was almost certainly much more than the procurement cost of this arm when new. A medal, bonus, and commission for that salvage officer!

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But less happy a conclusion was meted out the middle of May or early June this year (1961) to 1500 Remington Model 11 shotguns, and 3500 Winchester Model 97 shotguns, new, at Rock Island Arsenal. These were cut in half. The Salvage Officer was so angry at the job he had to do that he has just left the pile of cut up guns in the yard to rust away, not yet offering them as scrap.

The story reminds me of a group of tripods in the Museum at Aberdeen Proving Ground about 1955. These were of interest to collectors of dewat machine guns. A soldier at Aberdeen expressed an interest in these items for collection purposes. "Well, if you are interested in them, I don't see why you can't have them," said the salvage officer. "I'll put them up as scrap; we don't need them in the Museum, and you can buy them at the \$15 each you offered." When the soldier came around to collect his prizes, he found each tripod had been neatly torched into broken fragments. He did not pay the \$15 and the Government lost an innocently profitable sale.

Authoritatively rumored to be at Aberdeen Proving Ground also is a "warehouse containing 20,000 Mauser rifles." In the words of a well-placed officer at Aberdeen Proving Ground to me in an unofficial communication, "It would take an Act of Congress to get them out. They'll probably be broken up for scrap one of these days."

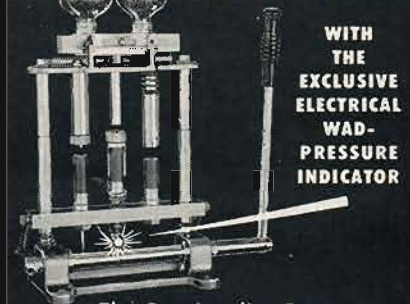
Meanwhile, the destruction goes on. I bought at a recent Ohio Gun Collectors Show two .45 automatics, torched in slide and barrel to make them junk. Made by Remington Rand, 1081929, and Ithaca Gun Co., No. 1221519, they were made early in WWII; but from all appearances, they were in serviceable condition. At least, the difference between their "working" condition price and their "burned full of holes" price is between \$2000 and \$5000 a ton. For some reason the clips were pulled from these guns, apparently preserved by a thrifty scrap officer for purposes known best to himself. Soon the clips will outnumber the guns by the hundred thousands as this destruction of arms program continues.

Pistols identical to this type, the M1911A1, have been bought new and supplied by our government to other governments under our groaningly expensive Foreign Aid Program. Perhaps the idea that, in filling our foreign aid commitments for supplies, we might draw upon our vast reserves already on hand, is too sensible a thought to gain acceptance in spend-more, waste-more Washington? If a soldier lost one of these .45s, he'd be docked in pay \$78. But into the hands of some salvage officer in some unknown depot Army Regulations, Air Force Regulations, Department of Defense "Instructions" give the authority to cut up valuable public property, though buyers wait to bid.

As nearly as can be figured out, the reasons for such destruction arose sometime during the pacifistic days of the late '20s or early '30s. The famous burning of the Pedersen Devices is a part of the historical story. These items were automatic bolts that slipped into a slightly modified Springfield — the Mark I — converting it into a volley-fire weapon. Whether air-dropping these to our beleaguered forces on Corregidor would have made any difference in 1941 is doubtful, but conscious destruction of 65,000 units and tons of ammunition seems somehow wasteful of materiel if not of lives.

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The War Department has not always been bound by such regulations. Back at the turn of the century, Francis Bannerman persuaded then-Secretary of War Elihu Root to put up for public auction all the "surplus" remaining on hand after the Civil War. Considering the alternative of scrapping, it may be said the Government realized a pretty penny from the sale. But this was before Income Taxes were such a convenient source of income. Today, thrift and businesslike procedures can be ignored, all being deficits supplied by the tax burden of the economy.

Even earlier, the War Department engaged in a mass sale of perfectly good warlike stores, Springfield muskets, Spencer carbines, Parrot rifled cannon, and ammunition for all. This was in 1870. While the sale resulted in a Congressional Investigation, two conclusions emerged from the testimony. One: Although the material was in major part shipped to France, it neither aided nor retarded that nation's course in the Franco-Prussian War. Corrupt in government and backward in organization, the France of Louis Napoleon fell to the conquering troops of Bismarck. Second: Our government realized the enormous price of as much as \$12 each for Springfield muskets that had fought a war, been fully written off by the victory of the Union, and only cost on an average \$16 in the first place. Additional tens of thousands of arms were captured Confederate Enfields, booty of war, cleaned and repaired and sold for profit. Uncle Sam hasn't made a deal like that in nearly a century!

Right now, valuable surplus and "obsolete" small arms are being destroyed. The types are all serviceable in terms of today's military picture: M1s, Carbines, .45 pistols, submachine guns, revolvers, and shotguns. Further, such articles exist in quantities in the trade as normal articles of commerce. Destroying them does not prevent "guns from falling into the wrong sort of hands," as one complaint often is. The waste and cost to the public is tremendous. But how big, nobody can easily find out. Inquiries to commanders of depots where such scrapping goes on are referred to Office Chief of Ordnance, there to get bogged down, or be answered in negative doubletalk justly labeled "Pentagonese."

"The information on type, quantity and location of arms scheduled for destruction or destroyed in the past five years, cost and circumstances, etc., is not available," states the Department of the Air Force, officially. "It would require extensive research and a special worldwide report which would not only be expensive but would take from six to eight weeks to obtain," they say.

I say that it would be a good thing to start getting that data together. For if the people of this country get sufficiently irritated they will carry the matter to their Congressmen. As my friend at Aberdeen said, "It would take an Act of Congress to get these Mausers sold off for profit." Isn't it about time our once-canny Uncle Sam made a deal now and then—at a profit?

If enough people tell enough Congressmen and Senators that they want this waste stopped, we may just get an Act of Congress. Meanwhile, they're chopping up your guns, destroying our nation's war reserve—on orders from Washington.

Don't Overlook Page 66!

LEARN FROM YOUR MISSES

(Continued from page 23)

Well, I gave myself a mental kick in the pants, and made a firm resolution—which I have kept. I've shot several head of game since this reappraisal, and I'm happy to say that I have shot like a decent marksman instead of a damn' fool—thereby surprising certain friends who had concluded that I couldn't hit a bull in the behind with a bass fiddle.

I suppose there are a few shooters who never miss. I concede this, though I've personally never met one. Some miss very seldom; others mix hits and misses pretty profusely. But it is my conclusion, based on my own experience, that a man can learn from his misses—and stop missing. Study those misses, find what you did wrong, and do it right in the future. It's that easy.

It's not always easy to evaluate your misses and locate your error; but it's easy to correct the error, once you've found it. Take my experience with doves.

Now, a dove is, in my opinion, the most-missed of American game birds. It has a change of pace in flight that would shame the best scat-back in football. With no visible sign of so doing, a dove can shift into passing gear and shatter all of a gunner's calculations.

I did a considerable amount of dove shooting some 25 years ago, and thought I was pretty good. Then, for a number of reasons, I got no more dove practice. I took it up again, in Texas—and my percentage of misses was fantastic. I tried more lead, and less. I missed, and kept on missing. Texas friends kept telling me I wasn't leading far enough, but that was ridiculous: I had tried more lead, and it hadn't worked. But they kept telling me, and so one day, exasperated, I swung so far ahead of a dove that not even a space missile could have caught my shot pattern.

I hit him! I did it again, and bit. I killed a limit in jig time. . . . And I discovered my error. I had simply been unable to believe that these Texas doves were moving as fast as they were moving.

Many gunners refuse to learn. The hits make them happy, and they try to forget the misses, the bad hits, the failures. In Missouri, I've seen gunners blasting away tons



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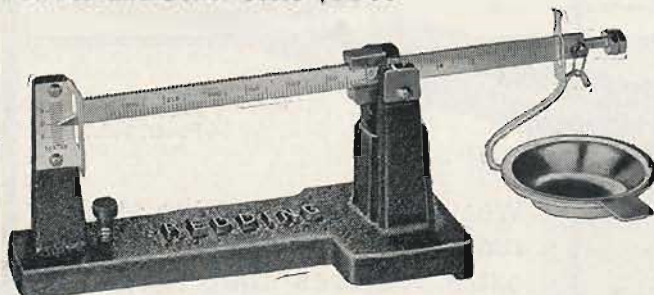
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of shot at geese that were too far away for any shotgun, not to mention their being beyond the skill of the gunners. Sure, they looked tempting. They looked tremendous, a yard wide, tip to tip. But they would *measure* half again that wide, and more! They were out of range. This is fine for the ammo makers, but it's bad for a gunner's ego; and it's bad for the geese too, because many do collect stray shot that kills them hours or days later.

It amuses me to hear gunners discuss in awesome seriousness the way a barrel throws certain sizes of shot, and how this gun and that gun are so very different in performance that the shooter *must* have precisely the right combination in order to bring home the birds. The truth is, *the worst shotgun ever put together will shoot better, with any load, than nine out of ten people can shoot it.* Once you start excusing your misses by blaming the gun-load combo, you are in a rut that leads exactly nowhere.

Among the most frequent causes of missing which seldom are properly analyzed are the too-close shots. I'm speaking now of shotgun shooting. The too-long ones should be obvious, although they aren't always, to gunners who continue to insist that ole Betsy can do it away out there if they just hold right. But for some reason it is difficult for many gunners to believe that they cannot hit a too-close bird except under specific circumstances.

When I was a kid, a fellow I hunted with always missed a cock pheasant when he flushed it from under foot. Sometimes this lad shot under the bird as it rose, because he was quick as a cat and trigger-eager. Sometimes, trying to correct and "lead" it, he shot over. The only thing he didn't do was wait until it reached zenith and virtually stood still in the air, at which time you have only to point dead at it and it is yours.

Later, when I started to shoot other game birds that didn't act like pheasants, I discovered the hard way that you couldn't do this with them. Thousands of shooters hang away at birds passing within, let's say, ten yards, and never hit except by accident because, if they only paused to figure it out, it's not, by design, possible. A human is not capable of swinging a gun that fast. And so, (Continued on page 44)



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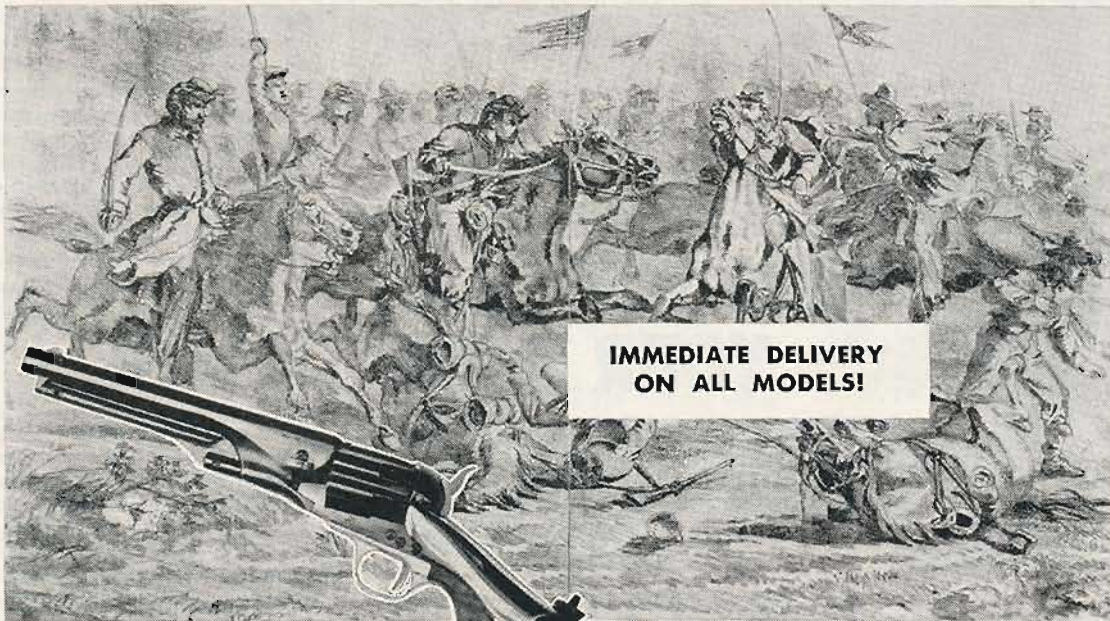
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On a lot of ranches there, deer hunters sit high in a tree and watch for their quarry. This acquaintance followed local customs and missed three bucks in a row. He was awfully morose about it, too; until, analyzing things closely, it dawned on him that: (1) he had always hunted deer in fairly flat or mildly rolling terrain; (2) being a slick shot, he was trying neck shots; (3) when sitting in a tree he was shooting at close range and down at an extreme angle. This clued him in. He had been overlooking one of the oldest and least understood pitfalls of the big-game hunter—which is that, at extreme angles either up or down, the bullet doesn't go where you think it is going; it goes but higher. The small neck target of the small hill-country Texas deer compounded the phenomenon and led to the misses.

What an analysis of misses will show is that, usually, the matter is a simple one. We are inclined always to look for the complicated error. A hunter is in the throes of despondency over "missing" a big buck. He growls and agonizes and threatens to quit, and gets in such a state he couldn't hit an elephant in the living room—and then he goes back to where he missed, and what does he find? A few feet from the end of the barrel, a twig has been cut off by his bullet. The scope, set higher, did not "see" this twig. Or, if it did, at this close range magnification blurred it so no image appeared.

In the same vein, I have seen shooters ready to beat the ground and tear out their hair because they *knew* they were right on, yet the big critter of their dreams ran off unscathed. It is as serious to reach the wrong conclusion about a miss as it is to fail to analyze it. I know of an instance where a large big-game animal was missed twice, standing head-on, at about 125 yards. The hunter had a rest and was shooting my gun, which I knew was on the money. Everyone was mighty jittery over these misses.



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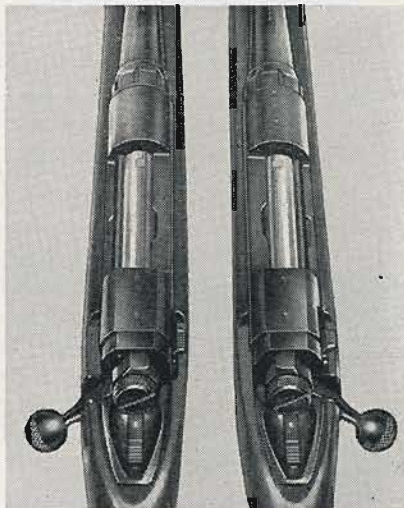
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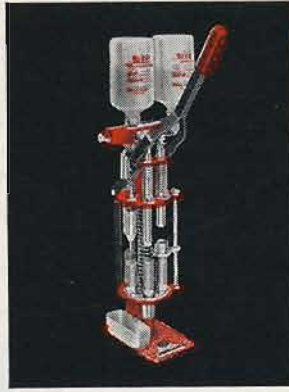
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But we didn't let it go at that. We made a diligent search, and we found, much to the shooter's relief, that on both occasions a cedar twig about ten paces in front of the animal had been hit. Had these twigs been close, or the animal broadside, the bullet probably would still have done its work. But deflection was just enough to cause the misses.

A neighbor tells of a trip up to British Columbia last year with a partner who missed, missed, missed. Asked if he was sure his gun was properly sighted, he said of course it was, he'd had that done before he came. *Had* it done! Gad! I wouldn't trust anybody to make the final pronouncement on mine! This man missed several good sheep, spent several thousand bucks on a ruined trip, and later found out the gun was way, way off aim. How silly can one get? Yet it happens every season, hundreds of times.

A scabbard that fits improperly can, on an extended horseback trip, get a crosshair out of kilter. If the terrain is tough, the banging around is that much tougher. The gun should be checked often, so you don't have to learn from an expensive miss. This sounds elementary, and yet few hunters actually practice it.

The fellow missing ruffed grouse may discover he's worrying about the trees so much he can't hit the bird. The gent who claims jacksnipe zigzag so erratically he can't hit 'em can find easily that he's the victim of loose talk and illusions. They only *seem* to zig-zag so far shot can't find them. In trying to outguess them, he overlooks the fact he's not shooting where they really are. A white snowshoe hare running against the background of white snow, the misser discovers, is much more difficult than a target with more contrast.

So it goes, endlessly. Always there are items to learn that can turn chronic and sometimes missers into hitters. Most important of all, however, is this: Don't be ashamed of your misses; don't let the hit-bragger inhibit you. A miss is a hit in the making—if you dig deep enough and take to heart the lesson hidden somewhere in the exasperation of it!

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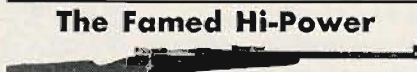


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TARGETS TOO EASY

(Continued from page 31)

and no more. (Trying to disc a 100 ring target in high power might get a bit complicated, and we should stick with something that makes matters less complicated.)

The scoring ring of highest value should be so difficult that it is extremely unlikely for a man to get a possible. If, in addition, we have many rings, closely spaced, we eliminate or greatly reduce the necessity of leaning on that "X" crutch for settling ties. Ten scoring rings in high power, properly proportioned, will get away from the worst of our troubles, while still giving reasonably good value for each shot. By using the scheme commonly used for discing International targets, you can disc shot values without confusing the pit crew too much.

The aiming mark, or black bullseye, does not need to have any relation to the 10 ring or any other ring. In pistol, we black the 7-10, 8-10 and 9-10 rings. Indoor and outdoor smallbore shooters use targets with 5-10, 6-10, 7-10 and 8-10 rings blacked for an aiming mark. Unfortunately, the military high power rifle targets follow the old scheme of having the 5 ring and the black the same, for no apparent reason.

Since the only purpose of the black is to give us something at which to aim, it should be about the same relative size at each distance, or maybe a trifle larger at the longer ranges, where haze, mirage and other factors make any bull harder to see. Many of our targets violate this principle. The 200 yard A target has a 12 inch black. If the black increased in proportion with the range, the black at 300 yards would be 18 inches, while the 600 yard bull would be 36 inches instead of the present measly 20 inches, and the 1000 yard bull would be 60 inches rather than its actual 36 inches.

Aside from beauty of symmetry, there is no reason that the scoring rings must be evenly spaced. On the A target, rings are 12-24-36 inches. On the B target they are 20-40-60 inches, while the rings on the 50 yard small-bore target increase by 1" increments and on the 100 yard target by 2" steps.

But the Standard American target, used in 25 and 50 yard pistol shooting, is different, and you have to admire the designer of this old beauty. Not only are 20-shot possibles relatively rare even now, but the target is designed so the rings get increasingly larger. The difference between the 9 and 10 rings is 2.15 inches, while the difference between the 5 and 6 rings is 4.88 inches. Unfortunately, somewhere along the line we lost the 4, 3, 2, and 1 rings.

Where you have many rings, you can put them close together, uniformly spaced and make the smallest one tiny enough to eliminate possibles almost completely. However, where you are trying to use a large target with a small center ring and relatively few rings, the idea of gradually increasing relative ring size is a good one.

Occasionally you hear the argument that reducing ring sizes to reduce possibles—and all scores—will decrease enthusiasm and hurt the game. I remain unconvinced! You are shooting to beat some one else and it doesn't make any difference what the numbers are as long as your number is larger than his. The tough 300 meter International rifle target

and the 50 meter pistol targets don't give up many possibles. Neither does the 50 yard pistol target. But they are all popular, and you are no less enthusiastic because you won with a 95. On the other hand, I would find it mighty discouraging to shoot a possible—only to find myself in 282nd place!

Targets which really give proper credit for the location of your shot are becoming more of a necessity all the time. What we need are targets with these features:

Aiming mark should be big enough to be easily seen.

Aiming mark should be of relatively the same proportion at all ranges, or perhaps a trifle larger at the longer ranges.

Scoring ring of lowest value (1) should be large enough to catch the majority of the shots of beginners or the poorer shooters.

There should be as many scoring rings as possible; no less than 10, and preferable more.

Scoring ring of highest value should be so small that getting a "possible" is highly unlikely.

If necessary to meet the other conditions, scoring rings of lower value should be relatively larger than high-value rings.

Here is a high power rifle target which meets these requirements:

Ring	Diameter, Inches
10.....	3
9.....	6
8.....	9
7.....	13
6.....	19
5.....	27
4.....	37
3.....	48
2.....	61
1.....	6' x 6' square

This is based on using a 6 x 6 foot piece of paper, the size used at 600 yards. However, if the frames available at your range are only 4 feet wide, the edges can be cut, and you will lose only a part of the 2 and 1 rings on the sides. Dotted lines can be printed on each side to show where to cut it for the 4 foot frame.

This target would be printed with the 7-10 rings blacked, for an aiming mark at 200 and 300 yards. For 600 yards, you can use the same target by pasting on a new center which has the 5 to 10 rings blacked, giving an aiming mark of 27 inches. For 1,000 yards the same target can be used, but with a new center, black from the 4 to the 10 ring, or 37 inches. The 1,000 yard target now is used in two sizes, 10' x 6' and 6' x 6'. The 6' x 6' target has been used at the National Matches for several years. The proposed target will not, of course, take the place of the 10' x 6' target without some other modification.

The same sort of scheme should be applied to smallbore rifle targets, but is complicated by the various distances used: 50 and 75 feet, 50 yards, 100 yards, etc. But there is nothing to keep us from applying it for the targets which most need it—the 50 and 100 yards.

You may disagree with this particular target and want to design your own. Go right ahead! We certainly need some changes in this field. But keep the basic principles in mind, and let's hope you will end up with a good target. It should not be too hard to come up with a better one than we have!



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30/06	POP	22/308	92/18	270/166	3400	3000	2800	2610	2360	1840	1600	1390	1.0	3.4	6.7
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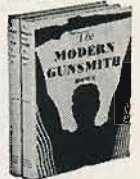
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PRACTICE IN YOUR PARLOR

(Continued from page 21)

muscle your wife's flatiron to arms length, and hold it. Fairly soon, holding the gun will seem effortless.

How tightly do you grip the gun? If you believe in a tight grip, and many do, grip hard and see how long you can hold it. Muscles starting to quiver? Sure; those muscles, too, need conditioning. A spring "grip developer," buyable at any sporting goods store, consistently used, will do it. Daily exercise by squeezing a tennis ball or similar object will do it equally well. But those quivering, tired muscles aren't helping your scores. Condition them.

But this article isn't, hasn't space to be, a detailed shooting instruction manual. There are many of them on the market. If you don't already have one or more of them, buy two or three and study them. I say buy two or more because you'll find little differences in the different sets of instructions, one or the other of which may help you. Finding differences in the instructions of the experts may suggest to you that, once you've mastered the fundamentals, you may find little tricks of your own that will help you. Pistol shooting is a pretty individual business. The tall, lean man will very probably adopt a wider stance than the short man. A man with a big belly may tip his upper body back in a way that would seem awkward to you, because he needs to balance his frontal weight. You may find it best for you to use a lighter or a tighter grip than a given expert uses. Try it. If it works, use it.

My point is, you can improve your scores

by home practice with an empty gun. Exercises, with the gun or with other objects, can develop your muscles to improve your hold. Snapping an empty gun (we call it "dry firing") is the best way I know to develop the art of trigger control to the point where you can drop that hammer without changing your sight picture. Drop it when the picture is right; keep on sighting to see what happens to the picture when the hammer falls.

You don't even need to stand and point at a target to practice trigger control. Sit down, point the gun at the floor, sight, and squeeze. With your elbows braced, any change in the sight picture now didn't come from body sway or arm movement; it came from your manipulation of the trigger. Practice until it doesn't happen. This alone will improve your score, and you'll be free then to concentrate on steadier stance, less arm movement, and other things.

Standard pistol targets are pretty big for sighting practice in a ten-foot space in your kitchen, but a black target-paster may be just the ticket. Or simply draw two clean black lines in the form of a T on a white card. The vertical line will give you horizontal alignment, and the top line will do two things: provide vertical alignment, and show you whether or not your gun is canted. The top of the front sight should be level, not tilted.

Facing that mirror again, go through the motions of assuming position, pointing, sighting, aiming. Look for superfluous movements.

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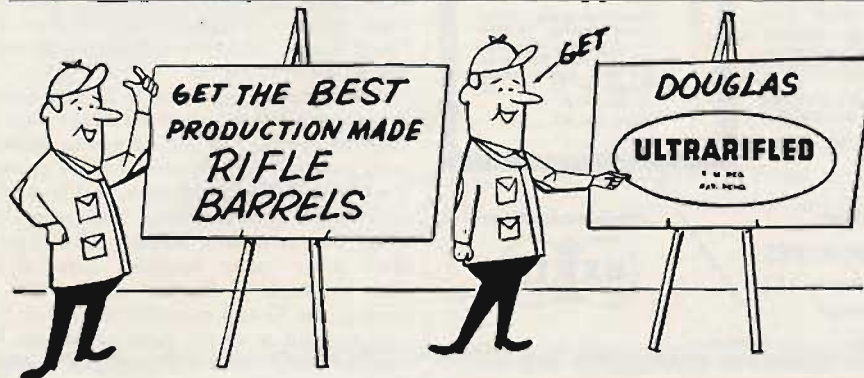
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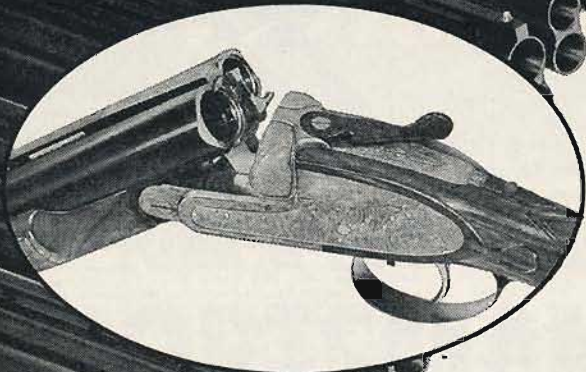
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You can see a lot of things in that mirror, if you look closely and are capable of self-criticism.

Don't misunderstand me: I'm not recommending that you stop range practice and do nothing but home work. Far from it. Each time you think you've learned something, try it with live ammo on the targets. But here's a tip out of my own firm convictions about target shooting: don't be in too much of a hurry to get too far from those targets. That 50 yard line separates the Masters from the Experts, and it has ruined many a novice pistolman. At 50, his scores were so lousy that he decided he just wasn't cut out for pistol shooting, and so he quit. When you can consistently shoot tight groups at 10 yards, move back to 15. Shoot from there until your groups are consistently tight again—considerably tighter than just "good scores," because the target is pretty big at these distances.

And when you get back to 25 yards, don't let anybody tell you that you're not shooting man-size pistol. You are, if you're shooting good groups. Stay here until you are shooting good groups. And even then, tackle that 50 yard stuff a little at a time. Your scores will drop, may even drop horribly. The Masters don't make many possibles here, either. Shoot a couple of 50 yard strings, then go back to the 25 and re-convince yourself that you are still a pretty good pistolman. Restore your ego. Repeat that. Reserve serious 50 yard practice until you're sure you're doing most things right, or as right as you know, and until the distance doesn't "bug" you.

Remember that you can be a really good pistolman, good enough to have fun and take real pride in your scores, without ever being a Master. Nobody says a golfer has to shoot sub-par scores to enjoy it; and the good Lord knows he doesn't have to shoot below par to brag! He's having fun. And if you are shooting pistol, so are you. That's why the pistol bug is biting so many people. It's fun! And you don't have to be a talented athlete to have fun at it, or even to be a champion.

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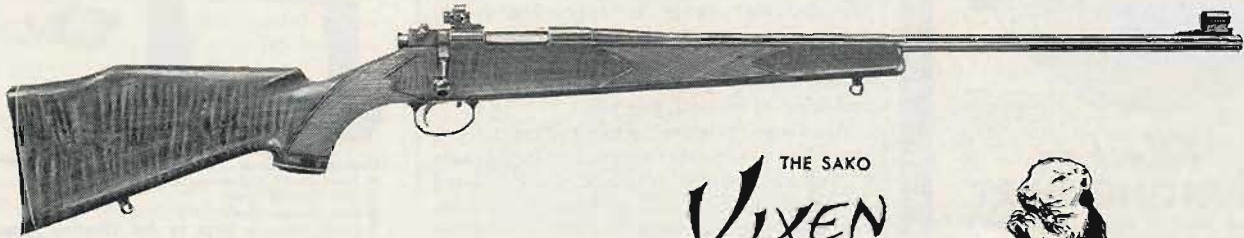
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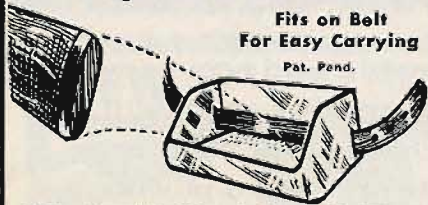
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SIGHTING IN IS EASY

(Continued from page 27)

I use a square aiming target in zeroing and testing rifles for accuracy. Al Haugan introduced me to the idea in the early 1930s, long before the National Bench Rest Association eventually adopted similar square aiming points for their official targets. Anyone can shoot better groups by using it, regardless of his type of rifled firearm or the sights it wears. But more about this later.

For sighting in .22 rimfire loads, the target should be about 25 yards from the muzzle. For the high velocity varmint and game calibers, that range is approximately 40 yards. Those are rough averages, subject to a plus-or-minus error of from three to five yards, depending on the caliber of the rifle and kind of mounts you use.

At these primary zeroing ranges, you should be easily able to use a one-inch-square sticker of gummed jet-black paper, pasted on anything which will give you a contrasting background. Pasting that sticker on some neutral or blending background isn't good enough for the precise holding needed for your primary zeroing, or for later zero-correcting shots. The more fussy you are at these short ranges the easier your job becomes in checking out your scope setting at your rifle's secondary zero point—the point at which the bullet, having risen above the line-of-sight, drops back down via gravity to again intersect it.

Now you're ready for your first sighting-in shot. The type of sights used, or even the kind of reticle in your scope, will determine how precisely you can carry out following instructions. You are going to hold for the lower left corner of that aiming square. With crosshairs, you can tuck the vertical hair against the left side of the bull, and the horizontal crosshair against the bottom edge of the square. The corner of your aiming square is thus tucked neatly into the 90 degree angle formed by the upper and right hand halves of the hairs.

With dot or post reticles, you should be equally careful to have the steadiest possible hold, so that the center of the dot or the center of the top of the post is at the lower left corner of the bull. Since it is fantastic to suppose that your first bullet will hit exactly right, you'll adjust elevation and windage from shot to shot until your bullets begin to print exactly on point of hold.

Depending on how solidly you hold, how sweet your trigger-squeeze, and how steady your nerves, a perfect zeroing bullet should notch out the corner of your square bull. If you're firing a group, some bullets will stray a bit outside of the bull's corner, while others will chew a bit more deeply into the corner of the black sticker.

This is where primary accuracy first shows up. An inaccurate rifle, providing you are doing your share, will show definite separation in the printing impact of its bullets—even at ranges from 25 to 40 yards.

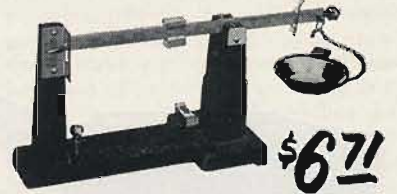
If your rifle is badly inaccurate, that's when you'll begin to question its long-range value. Any rifle that spreads its shots at short range, will magnify that spread at the ranges at which varmints and game are regularly taken.

I've seen several rifles that couldn't hold five-shot groups within areas that could be measured by a 50-cent piece, even when they were tested with properly-mounted high-qual-

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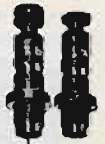
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ity scopes and under bench-rest conditions. There is no point in wishful hoping that such grossly inaccurate rimfires, failing the test at 25 yards, would kill prairie dogs or crow consistently at 65 to 75 yards. Similarly, inaccurate centerfires, tested at 40 yards, won't be anything but antelope-cripplers on average 200 yard shots.

The rifleman who hopes that such scatter-gunning rifles will "settle down" after a period of test shooting is merely deluding himself. They won't. The best cure is to get rid of 'em.

On the other hand, I have seen very accurate rifles, but with frightful trigger pulls, that could be cured by a few minutes of expert gunsmithing.

After you have satisfied yourself that your rifle is "tackholing" its hits right on the corner of your aiming square, give it a workout at longer ranges. The usual hunting distance for the .22 rimfires is somewhere between 65 and 100 yards. Try it at those ranges. If it isn't quite right, correct it.

For centerfire rifles, you don't need any 200 or 300 yard range for sighting in, even if you want your rifle to be game-zeroed for those ranges. A study of the printed ballistics of your load will tell you that any cartridge that has a midrange trajectory of 2 inches over a 200 yard range will be zeroed in for that distance if the bullets print two inches high at 100 yards. The same applies for any longer ranges of your choice.

Every rifled shoulder or hand arm can be zeroed in on that same thesis, within all reasonable varmint and game ranges. Shoot 'em in to a zero at short range, refine that zeroing at 100 yards—again using the square bullseye, and shooting for whatever corner is most convenient for you—and you've got it made. For longer ranges merely study your trajectory tables and set your elevation adjustments so that the center of your group prints the right height above your point of aim. That's all there is to it.

Now let's go back to that business of square versus round-bullseye targets. No matter what your sighting equipment, you can't hold on a round target as well as you can on a square aiming point. The round bull is a traditional device and okay, I suppose, for scoring target matches. But, for zeroing in a rifle, or testing one for accuracy, they're a plain pain in the neck.

If you try to quarter such targets with crosshairs, or superimpose a dot reticle on them, or put the post reticle on a six-o'clock hold, you're putting an unnecessary handicap on yourself and your equipment. You can't see where sight meets black, you can't see tilt as clearly, your reticle blends into the harmonizing black to a confusing or distracting degree.

I predict that, not too long in the future, top marksmen will demand square aiming points. The benchrest shooters, who demand the very best in precision, use them. So why shouldn't the run-of-mill target shooters enjoy their obvious advantages?

Leupold and Stevens of Portland, Oregon, manufacturers of fine scopes and mounts, are only one of several outfits that now provide sighting-in targets with square aiming points. Lacking such ready-made sheet targets, do as I have been doing for the past 30 years: buy a one-mill roll of gummed black paper, perforated at one-inch intervals,

(Continued on page 57)



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NUMRICH ARMS WEST HURLEY CORPORATION 2, NEW YORK

(Continued from page 55)

and paste up your own targets on any surface which provides a contrasting background.

I'm afraid by comments along these lines were shockers to the North American School of Conservation students. But I noticed that when I proceeded to sight in that Savage 24-M, and to pattern its shotgun barrel with assorted shot sizes, I had an interested audience. Grocery cartons for targets were in immediate and considerable demand as those students who had brought along rifles or handguns also proceeded to check out the accuracy of their own firearms.

A few of the NASC students had also brought along some of the formal bullseye targets. It is a telling fact that every one of the shooters who fired comparison groups on the round and square aiming points got tighter groups on the latter. It's hard to argue against success.

WHAT'S THAT THING?

(Continued from page 19)

cranked, multi-firing gun utilizing a unique form of non-reciprocating, split-chamber action. Two parallel barrels are screwed into a breech frame or receiver. The barrels are not chambered. Behind each barrel is a rotating drum carrying three half-chambers. This feature is best visualized as a revolver cylinder which has been machined down to remove all metal beyond the center line of the chamber.

Both drums rotate counter-clockwise and are situated outside of the bore axis. Between the two drums is another similar drum carrying four of the half-chambers. This center drum rotates clockwise and is driven by the hand crank through spur gears. The outer drums are driven by gear wheels meshing with a gear mounted on the center drum's shaft. Two firing pins or strikers are mounted behind the drums under heavy spring tension and are cammed back against their springs by cams mounted on the shaft of the hand crank.

A large box magazine appears to have been used but is missing now. It was mounted in a guide or housing on the left underside of the receiver in line with the left drum. A large ejection port is directly opposite the magazine, aligned with the right drum in the right underside of the receiver.

Functioning of this piece is not as complicated as it sounds. With a loaded magazine in place, turning the hand crank will rotate the drums and, as the next half-chamber of the left drum passes the magazine mouth, it picks up the first round

(Continued on page 60)

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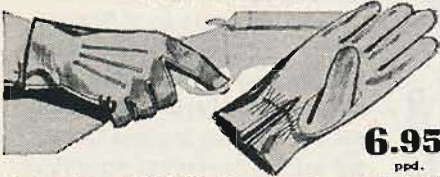
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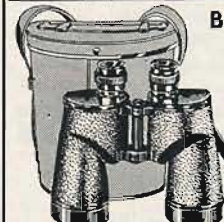
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(Frederick Fell, Inc., New York, \$5.00)

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PLAINSMEN OF THE YELLOWSTONE
By Mark H. Brown
(G. P. Putnam's Sons, Sept. 1961,
New York, \$7.70)

Not a book about guns, but a book about men whose skill with guns is an important part of the great American legend. "Plainsmen of the Yellowstone" paints a broad and vivid canvas of adventure and history in the Yellowstone Basin and on the trails leading into and out from it. Maps help the reader to orient old names with new in tracing the stories of the earliest explorers, the trappers and mountain men, and the troops who came later. But the story includes also the outlaw days, the range wars, and the coming of the railroads, up to about the turn of the century. A book of good reading, to be returned to often in reference.—E.B.M.

GUNS OF THE OLD WEST
By Charles Edward Chapel
(Coward-McCann, Inc., New York, N. Y.
\$9.95 before 1/1/62, thereafter \$12.50)

The publication of a Chapel book is always a red letter day to me. This is the definitive book on the firearms that opened the frontier and conquered the American West. From his years of studying historical guns, Chapel has gathered historical details, pictures and vignettes that give the book the flavor of the west, plus the deep knowledge of guns for which the author is so well known. Unlike many other books on historical firearms, this one is written vividly and holds the reader's interest throughout. The reproductions are outstanding and in themselves make it worthwhile to read or browse through this outstanding book.—R.A.S.

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(Continued from page 57)

counter-clockwise toward the centerline of the right barrel. The center drum, rotating in the opposite direction, closes another half-chamber over the round. Thus, the cartridge is completely enclosed as it approaches the barrel.

When the cartridge is aligned with the bore, the segmental gears connecting the crank shaft with the center drum shaft cause the drums to stop momentarily as the crank motion continues. The continued motion of the crank shaft cams the firing pin of the left barrel to the rear and then drops it on the primer. The firing pin is immediately retracted slightly, and the drums start rotating again.

At approximately this point, the next round is picked up from the magazine as was the first one. As the fired case is carried away from the barrel, a cam surface on the standing breach forces it out of the left drum and it is carried by the center drum over to the right drum where it is passed through the firing position of the right barrel and, as the half-chamber carrying it passes the ejection port, the case is free to fall clear of the gun. There is no positive mechanical means of forcing the case from the drum so this vital function is dependent upon the force of gravity alone.

The second round picked up by the left drum follows the same course, but due to the placement and design of the firing pin cams, the left barrel is not fired as this round passes through the firing position. The loaded round is then carried on to the right barrel where it is fired and the empty case ejected as was the first one. The third round will then be fired in the left barrel, and the fourth in the right, ad infinitum, as long as the crank is operated and ammunition is supplied. The firing pin cams are designed to drop the pin on every second round that passes behind each of the barrels. One full turn of the crank fires both barrels.

The caliber of this weapon is .30-30 Winchester. This and its size indicate that it is

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probably an inventor's model rather than a piece intended for field use. Credence is lent to this supposition by the fact that there is no provision for fitting to a mount, nor is there any form of stock or grips by which it might be fired as a free gun. Workmanship is superb throughout. All internal working parts are smoothly polished, and a great many of them are case hardened in color.

This is an interesting attempt to achieve high rates of fire without excessive barrel overheating. The maximum practical rates achieved thus far with reciprocating type actions seem to be in the vicinity of 1500-1800 rounds per minute. Only since WW II has much effort been devoted to non reciprocating actions which produce rates of fire of many thousands of rounds per minute. It is a pretty safe bet that this gun pre-dates WW II since its existence has been known since very shortly after that fracas.

Our unknown inventor had some good ideas with his drum-contained chambers and multiple barrels. This design would seem to have very high rate-of-fire potential, but the split chambers restrict it to the use of relatively low powered cartridges. Gaps where the two chamber halves meet are readily visible, even when the round is in the firing position, so it is obvious that modern high-intensity cartridges could not be used safely in such a design.

Since data are lacking on this piece, the writer would like very much to hear from any readers who have any information whatsoever on this or any similar weapons.

GUN RACK

(Continued from page 8)

made by the J. Dewey Gun Company of Roxbury, Connecticut, for the very purpose of shooting slugs, and it can be installed by anyone who is the proud owner of a screwdriver. The sight does not shoot lose, and the groups produced here with three 12 gauge guns averaged 5 inches at 100 yards—good enough to account for the venison. The front sight is an elevated bead sight, the rear sight is open, adjustable for windage and elevation. When ordering, specify gauge and model of gun. As yet, the Fine Line sights are specially made for 28 gauge and 410, but 12, 16, and 20 gauge sights are in stock.

The Dewey Gun Company has made quite a name for itself since they started to install their Thumb Slide Safety on several makes of shotguns. The cross bolt safety is the standard on practically all auto and pump guns, and a good many shooters have longed for a thumb operated safety as it is found on the double barreled shotguns.

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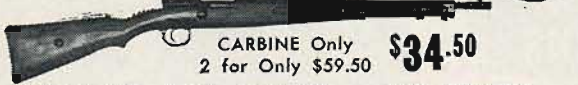
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A New Marlin Rifle

Marlin's new Model 122 Single Shot bolt action rifle was designed for the beginner, but stands ready to give any shooter a lot of fun and pleasure. The .22 rimfire cartridge is inexpensive enough to afford a lot of shooting fun, and that is just what we had with this little Marlin.

The Model 122 is a bolt action single shot, chambered for the .22 rimfire, with an automatic safety. It handles all .22 rimfires with the exception of magnum cartridge, and the weight is just 5 pounds. The gun tested had one of the nicest pieces of wood we have seen in some time on an inexpensive gun, and despite the fact that it is a junior gun, even a long-armed guy has no trouble scoring with it. Barrel length is 22 inches, over-all length is 40 inches, and the little plinker comes equipped with the usual open rear sight and a hooded ramp front. Marlin also furnishes a scope with the gun that is well worth the few extra dollars it costs.

This is a wonderful gun for a beginner, yet all of the Marlin accuracy is here plus, of course, the safety factor of the single shot and the automatic safety. The safety is positive, and the function of the gun was smooth throughout an entire afternoon's plinking and shooting. Accuracy with iron sights and with the Marlin scope was very good, and one youngster became an enthusiastic shooter in the course of the afternoon after seeing the nice groups he was able to produce. In summary: A fine gun for the young shooter—and the older one too.

Fun Targets

While testing the Marlin Model 122, we used the "Hit 'N Spin" shooting gallery, made by the Evans Park and Carnival Device Corp. of Chicago. The weighted round disk, bird, and star will spin freely when hit, and there does not seem to be any ricochet danger when used with .22 ammo. The par-

(Continued on page 65)

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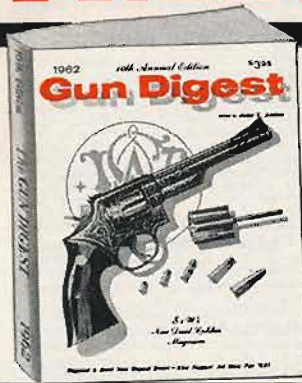
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(Continued from page 62)

ticular model used also took some .45 ammo without trouble; but here it would seem indicated to be sure to hit the disk, bird, or star rather than the stem the targets are mounted on. It could happen that a badly placed bullet could shear the stem off. However, if the spinners are broken or damaged, they can be replaced at little cost. Spinners for regular ammo are made from cadmium plated iron, but aluminum spinners are also made for use with pellet guns. This gadget can mean a lot of fun on a rainy Sunday afternoon. Set up the spinning targets in the garage or the basement, get out the pellet gun and shoot to see who is going to wash the dinner dishes . . . low man loses.

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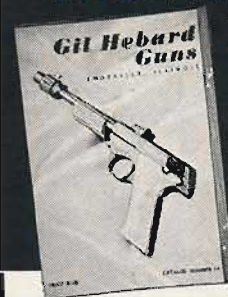
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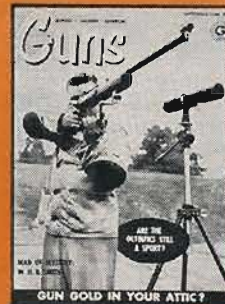
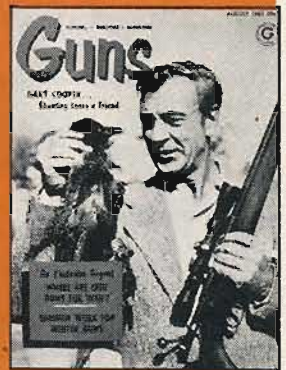
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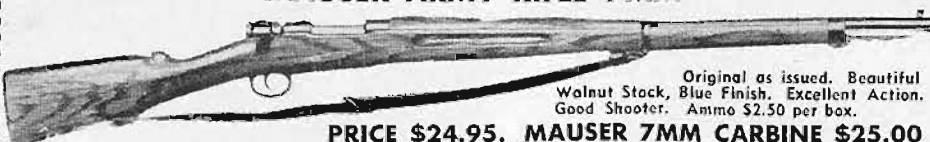


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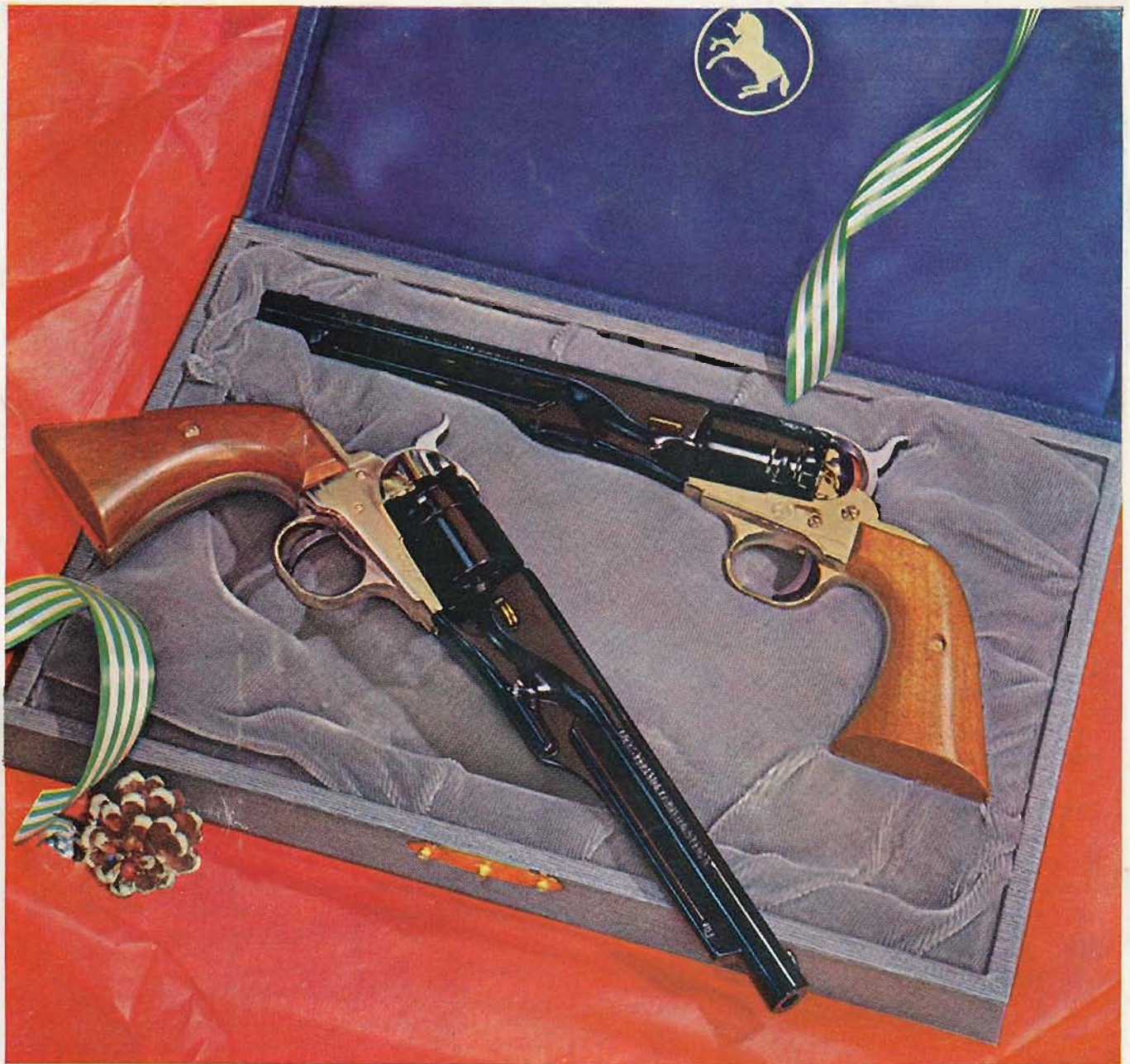
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