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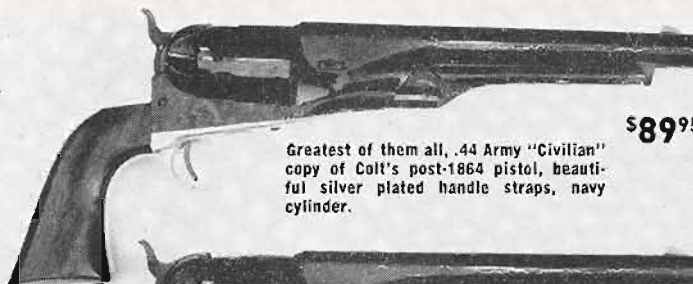
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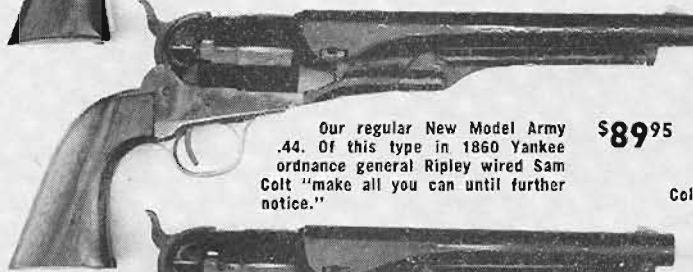
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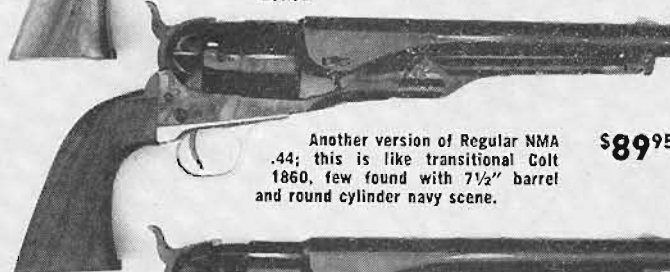
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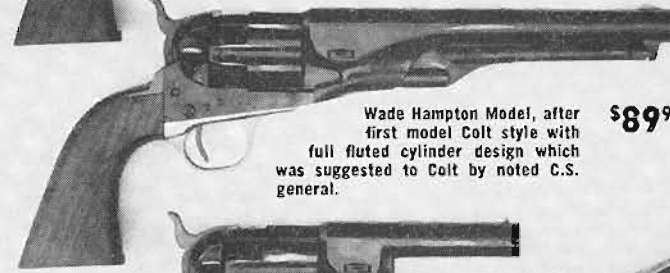
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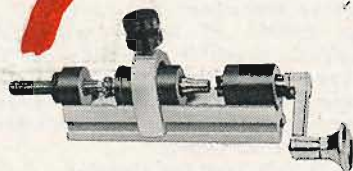
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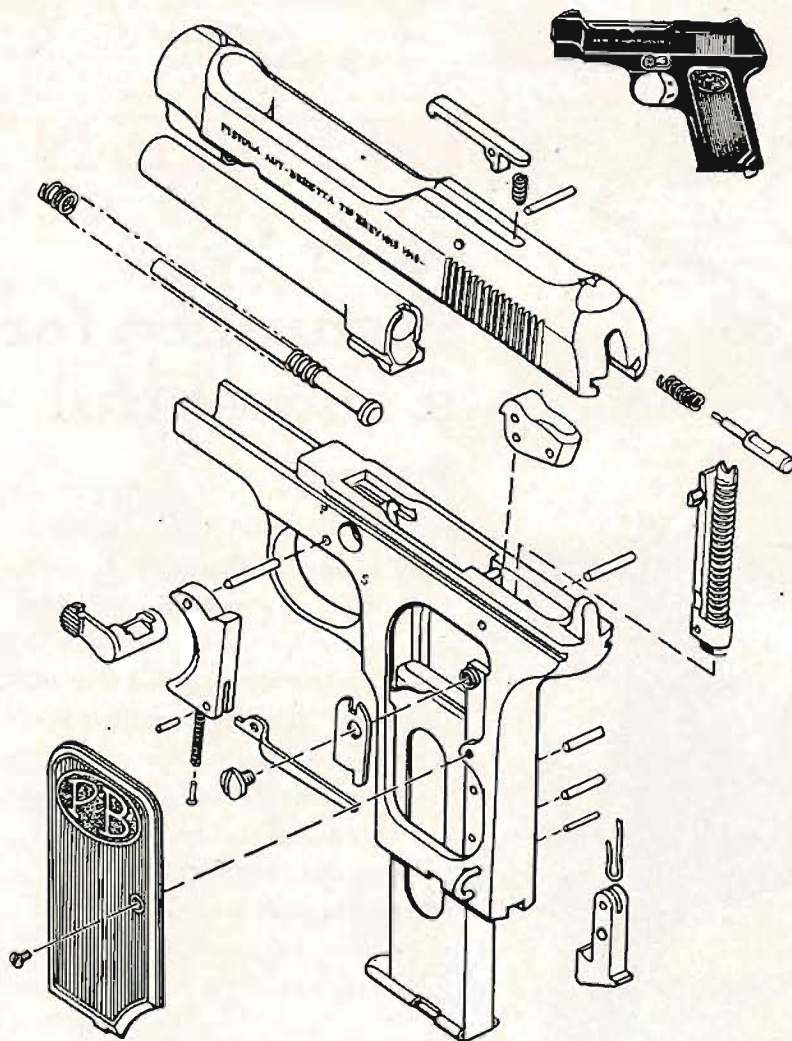




# AN INSIDE LOOK

By SHELLEY BRAVERMAN

## AT THE BERETTA M/1915-19 PISTOL



**T**HIS remarkable automatic pistol introduced features that have survived four model changes during the past 40 years. The Beretta Models 1925, 1931, 1934, and current models are all based on the original 1915-19.

The disconnecter-sear system results in a very smooth let-off, and is characterized by the linkage of a long sear coupled to the hammer spring. In the 1915-19 model, disconnection takes place by the sear plate, the bottom of which pushes the trigger bar out of engagement as it pivots. Later models used the principle of a vertical extension on the trigger bar.

Characteristic also are the barrel design which uses a dovetail for retention, and the combination of safety and barrel retainer. Grips are of pressed sheet metal, and were virtually unique with Beretta.

The pistols are encountered all over the world. The current Beretta catalog claims, "Beretta is the Official Sidearm of: South Africa, Liberia, Philippines, Burma, Indonesia, West Germany, Denmark, Siam, Pakistan, Costa Rica, Iraq, Argentina, Italy, Syria, Israel, Lebanon."

In this (and other) models that have a "hold-open" effect upon the discharge of the last cartridge, a trick may be used to aid in the removal of the magazine. If the safety lever is placed on "Safe," it will hold the slide away from engagement with the magazine follower (after slight withdrawal of the slide) thereby allowing easy magazine removal.

### TO FIELD STRIP:

1. Rotate safety lever to "safe" position (tail to rear);
2. Retract slide until caught and held open by safety;
3. Remove magazine;
4. Tap muzzle of barrel with (or against) wood; it will slide out of engagement with frame;
5. Remove barrel through top of slide;
6. Disengage safety, and ease slide forward and off frame.

This is sufficient for cleaning.

In reassembly, the safety lever must be in the "safe" position to allow insertion of barrel. The replacement of parts takes place in reverse order of field-stripping, but keep in mind that the safety acts as a barrel-lock when in the "fire" position.

In replacing grips, caution must be exercised as to the grip screws. An extra-long replacement can interfere with proper action of the sear-bar, which is positioned directly under the screw hole.

The illustration is of a 7.65 mm (.32 cal.) gun. Strangely, we have never encountered this model in 9 mm "Corto" (.380) caliber. Later models were made in both calibers.

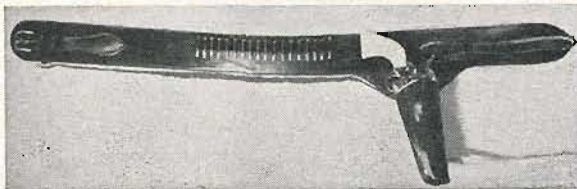
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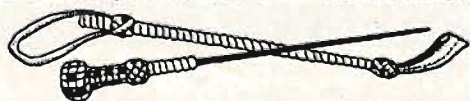


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# Guns

FINEST IN THE FIREARMS FIELD

MAY, 1962

Vol. VIII, No. 5-89

George E. von Rosen  
Publisher

Arthur S. Arkush  
Ass't to the Publisher



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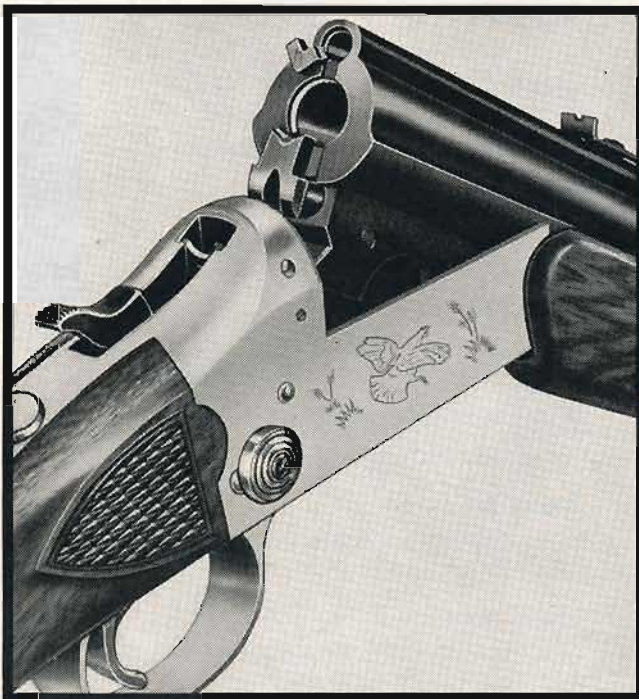
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### THE COVER

Not a family, yet strongly remindful that shooting is a family sport and fun for everyone, the group on this month's cover is composed of a Marine instructor in the Junior-Tyro school at Camp Perry, a student instructor (behind the scope), and a tyro rifleman who may one day win top honors on those same ranges. Filmed by Paul B. Gunnell at Camp Perry, 1959.



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(Published by Shelley Braverman,  
Athens, N. Y. \$11.25)

A truly monumental work, published originally at \$22.50, "The Encyclopedia of Firearms" comes about as near as any single book could do to living up to its all-embracing title. Hundreds of photographs and drawings, including "exploded" drawings to show working parts and assembly, combine with tight textual specifications, descriptions, and instructive data to cover at least a major sampling of the handguns and shoulder arms of the world, ancient and modern. An invaluable book for the man who likes to see how things work, as well as for the student of firearms development. Only a limited number of copies available.—E.B.M.

### A BEGINNER'S BOOK OF SPORTING GUNS AND HUNTING

By Milton J. Shapiro  
(Julian Messner, Inc., New York, 1961. \$3.95)

Written in a light vein, the author has made no attempt at being profound, but he does succeed in driving home certain basic facts about guns and firearms safety. As the title of the book implies, it is written for the beginner and primarily for the young one. Because technical details are touched on but lightly and then in a manner that any youngster will understand, this book should do much to further a youngster's interest in shooting.—R.A.S.

### GUN ENGRAVING REVIEW

By E. C. Prudhomme  
(Gun Engraving Review Publishing Co.,  
Shreveport, La., 1961. \$15)

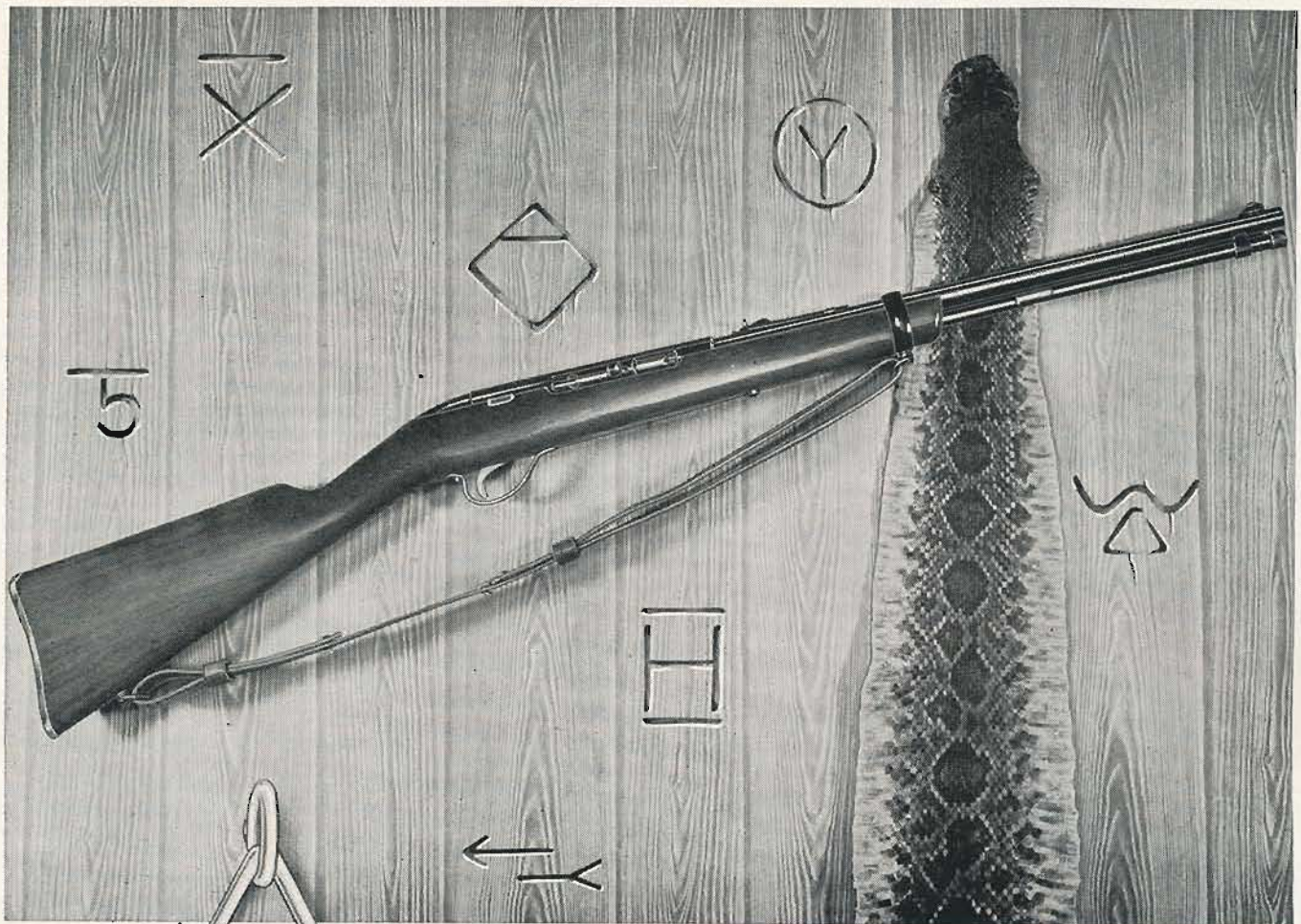
Gun engraving is a matter of personal taste, and of money. Prudhomme, master American engraver, has gathered the best of the engraver's art in this volume, and if you cannot afford to have your favorite gun engraved, then the next best thing is to get this magnificent book. Some of the many contributors have done outstanding work in the gun engraving field, and the photographs show details clearly. If you are interested in engraved guns, or just in guns, this volume is worth the money.—R.A.S.

### THE BIG GAME ANIMALS OF NORTH AMERICA

By Jack O'Connor  
(E. P. Dutton Co., \$10.00)

A big book (10" x 13", 264 pages) and a beautiful one (20 full color paintings and more than 150 black and white illustrations), at a price surprisingly below what you'd expect from appearances. But this is more than just a big, handsome addition to your library; it's a storehouse of information about animals, their habits and habitats, and how to hunt them. Jack O'Connor ranks near the top among American hunters in point of experience, and he adds to that a writing skill that makes this book a sure-fire treat. Great to get or give.—E.B.M.





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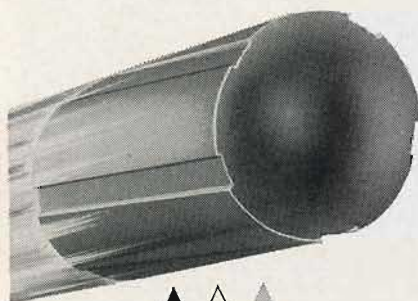
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## CROSSFIRE

### Score 10 For Reeves

Bully for Harry Reeves! His article on the .45 M1911 (March '62 issue) is one of the best I've read in any gun publication. I agree, having carried one myself in two of the three wars it helped fight, that the .45 Auto is, without question, the best "hand cannon" ever issued by the military.

I've been familiar with Mr. Reeves' career in the gun field, but I never suspected that he was such a fine writer. Please give us more of this champion's literary "bullseyes"!

Maj. William J. Dempsey, USAF  
Glendale, Arizona

### Winchester Model 1886

In your March issue, with the article "Guns That Rode With the Daltons," the rifle pictured is a Winchester Model 86. You state the caliber to be .44-40. I think this is a mistake, as I believe these Model 86s were made only in calibers .45-70, .45-90, and .50-110. Could this rifle have been made on special order? I doubt it.

W. C. Taylor Jr.  
Nogales, Arizona

*We doubt it too. According to the book, "Winchester," by Harold F. Williamson, the Winchester M86 was made in the following calibers: .45-70 Government (405 or 500 grain bullets), .45-90-300, .40-82-260, .40-65, 38-56, .50-110 Express (1887), .38-70 and .40-70 (1894), .50-110-450 (1895), and finally .33 (1903). "The Winchester Book," by George Madis, adds five calibers: .40-75, .45-82, .45-85, .50-100, and .50 Smoothbore. (Madis omits the .50-110-450.) Anyway, the rifle pictured is a .38-56. The photographer goofed, and so did we.—Editors.*

### Challenge To Fast Guns

I get hold of a copy of your magazine once in a while, and have noted your "Fast Draw" write up. Being pretty much of an old timer who wore and used an iron some 50 years ago, and the son of a real old timer, these fast draw boys make me sick! When they wear their iron up on their hip, where it belongs, and not strapped to their knees, and can draw and hit what they shoot at, I'll take notice. The young fool in the lower right hand picture, page 28, *fanning with his eyes shut* wouldn't have lived long enough in the old days to think about shooting anymore. Dec Woolem, on the next page, with his belt strapped down around his crotch, is another laugh. Imagine climbing on a half-broke bronc in that kind of leather goods!

And in the first place, speed doesn't mean a thing in a fight; the fastest, fanciest slingers usually missed their first shot, and the bucko who took time to aim and hit was the one that lived to tell about it. Too

damn bad that I'm so damned old and stiff. Just wonder how many of these young "wonders" would take me on for "keeps" when I was riding Wyoming and Montana in the old war days? Wear your smoker up where it belongs, kids, then see how good you are.

Jeff Maxwell (Arizona Kid)

### It's a Funny World

Those two letters about the difficulty of buying handguns in Chicago struck a reminiscent chord. About 1953, I was heading homeward from a fracas in Korea and stayed a few days at Ft. Sheridan while they figured whether to pay me off or keep me for amusement purposes. I went downtown to view the scenery and so forth.

In a well-known Chicago store, I came across one of the Sheridan Knockabout pistols. I asked him about buying one and sending it to my home address by express. "Sorry, sir. Store rules. You can send it to someone else, but we do not sell pistols to uniformed military personnel."

Funny. I was in charge, more or less, of a 5000 ton corps ammo dump in Korea, and here in the US I couldn't order a single shot .22 pistol in my own name!

John P. Conlon  
Newark, Ohio

### Snipers

There are more magazines on the market today devoted to firearms than ever before, but none gives much space to the collector of modern military long arms. It was with much pleasure that I read and enjoyed "These Rifles Killed Yanks," by Lt. Wm. H. Tatum IV in your January, 1962, issue. The photography was well done, and the article itself very interesting. I sincerely trust that space will be allocated in future issues along these same lines. My compliments to you and Mr. Tatum for the very fine work you are furnishing the arms enthusiast.

Ronald C. Berkeley  
Avon, Massachusetts

See page 19.—Editor.

### Question, and Answer

Regarding Bert Popowski's "Pheasants On Snow" (Feb. 1962), how come Popowski gets to fill his gun with five shells when federal law allows only three?

Wesley K. Roberts  
Secona, Arizona

*Answer, by Popowski (greatly condensed. That Popowski is a wordy man!—Ed.) "Popowski gets to fill his gun with five shells because he's a damn poor shot and needs that extra fire-power! . . . Seriously, Mr. Roberts, the three-shell federal law applies*



only to migratory birds, of which the ring-neck pheasant isn't one. When I use that Ithaca on ducks or geese, it wears the regulation plug to make it a three-shooter."

### Challenge

If the man who dared me to publish his comments regarding a letter which appeared in February "Crossfire" will give me his name and address and tell me what he is so mad about, I'll answer him. Meanwhile, I don't accept dares from people who do not dare to sign their names.—E.B.M.

### Plug For Russ Annabel

I really enjoyed the story about "The Killer Cat of Jug Mountain." An article has to be pretty darn good to top the other excellent material you present in each issue, but in my opinion, this story did it.

I have only one question. Would it be possible to bring back the "Guns in the News" column? I enjoyed this column very much. Other than that, GUNS is still tops.

Kenneth Kashmarek  
St. Paul, Minnesota

### But You Can't Please Everyone

Let's keep GUNS a gun magazine and not turn it into an Annabel Fairy Tale Book. You were doing fine until now.

GUNS has filled a long time need for a truly gun magazine with factual information. Many of the older magazines have yielded to fiction to fill their publications.

Al Johnson  
Washington, D. C.

### This Letter Drew Fire!

The only reason I can see for publishing the "suggestion" by one P. Hatch of Sierra Madre, Calif. (March "Crossfire") was for laughs. His objection to people firing sporting ammo at red rats is that, "any type of projectile designed or improvised or modified to break up or expand on impact should be made a separate crime!" He further suggests military action "be left to the military, etc." Wonder what he thinks the military will throw at 'em? Civil War round shot? Wonder what he thinks of napalm? Flame-throwers? Incendiary bombs? Anti-personnel mines and booby traps? Or even fragmentizing shells and grenades?

Where has P. Hatch been the last 35 years if he thinks the Geneva Convention cuts any ice in modern warfare?

And, lastly, since when is a comic col-laborator a "fellow countryman?"

Paul F. Potter  
Villas, N. J.

If I walked up on a person looting my home and he was to fire on me and I was armed, I certainly wouldn't fire back at him with a "saltshaker."

In a national emergency, where the United States was attacked and it endangered our freedom and the freedom of the world, I'm afraid that the use of soft nose or hard nose bullets would not make much difference if a life or a family's safety was at stake.

This letter is not intended to belittle anyone's personal opinion. We should all appreciate living in a country where we are free to express our opinion.

Mr. & Mrs. Milton C. Raven  
Lake Stevens, Wash.

### Liked "Long Shots"

Congratulations on the article by Colonel Askins, "Long Shots Are for Bad Hunters" (Feb. 1962). Every word is gospel, and a so refreshing change from the phony clap-trap appearing more and more frequently. Today's average hunter is not only a lousy estimator of distance, he is also a poor shot. How could he be otherwise? If, in a year's time, he shoots as much as one box of ammunition between seasons, he is an exception.

Good shooting ability comes close to being an exact science. Yet the average hunter hits the field with equipment not necessarily of the best. If he be a deer hunter, in well over 50 per cent of the cases, his rifle is not even decently sighted in. His knowledge of basic ballistics is very scanty, his actual shooting ability the same. Yet, hopped up by the type of article Colonel Askins decries, our hunter is all set to blaze away at any and all ridiculous distances not only far beyond his own capability as a shot, but beyond the actual hitting and killing capabilities of the gun he carries.

Bill McCandless  
Napa, California

Having been a regular subscriber to your magazine since its inception, it was with considerable extra pleasure that I read Col. Charles Askins' "Long Shots Are for Bad Hunters," in the February edition. How this article was needed. I have been a gun nut, hunter, and collector since 1905 and down through the years, particularly since the use of high velocity, have read countless stories by the experts of their phenomenal long range kills. Col. Askins has removed a bit of the tinsel from the Glamour Boys of the hunting fraternity, and is to be deeply thanked for so doing. In that connection, may I take this occasion to thank also you and your co-workers for the high quality of GUNS Magazine.

Russell S. Preston  
Detroit, Michigan

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32 Remington Soft Point, Per 100	12.00
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Bore Scopes .50 Cal. Govt. Surplus: Post-paid	75c

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RECOIL BOOTS  
for shotgun \$5 DOZEN  
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**PUBLIC SPORT SHOPS**  
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Tiny targets at long range demand the best a scope can deliver. Lyman 8X or 10X (lower photo) new All-American Perma-Center Scopes give brightest picture, best target definition under all conditions . . . fine Perma-Center reticules stay dead center to limits of windage and elevation adjustments. Super-Targetspot (top) serves double purpose . . . super-accurate for range, deadly to varmints. Choice of 10, 12, 15, 20, 25, 30 power. Send for full information, or have your Authorized Lyman Dealer demonstrate. No obligation either way, of course.

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### BUY SPEER BULLETS IN THE THRIFTY-FIFTY PAK!

Now you can buy Speer Bullets in the budget priced 50 PAK in addition to the standard 100 PAK. NEW smaller package means less cash outlay . . . more money for other components . . . and most important it means you can test your rifle with several Speer Bullets without investing in the larger 100 PAK.

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Shooters often want to test-fire a few rounds of a particular bullet (type, weight, caliber) before investing in a full box. NEW AND EXCLUSIVE SPEER SAMPLE SERVICE makes it possible. Send 25c in coin, to cover cost of handling and mailing. A five (5) bullet sample of your choice will be sent to you by return mail. Why not try several different ones? Just send 25c for each five (5) bullet samples wanted.



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## GUN RACK



### Slide Action Air Rifle

The V-350 is the latest offering of the Crosman Arms Company in the air rifle field, and the little pump gun does make it possible to hold an indoor shoot without noise and at almost no cost.

It is certainly surprising what Crosman was able to built into this little slide action gun that retails for only a nickel less than 13 dollars. By pumping the barrel back, the gun is cocked, and trigger pull, though not outstanding, is good enough to make it possible to stay in the black at 25 feet. The gun accepts copper-clad steel pellets, and can be loaded as either a single shot, or with up to 22 pellets. There is no safety on the gun, but the loading port, on top of the barrel, is easily visible and one glance tells if the gun is cocked and loaded.

Though a bit light, our test gun produced fairly consistent 1 1/4 inch groups at 25 feet, and the backstop, a corrugated cardboard box filled with newspapers, stopped the pellets easily and without damage to a backing of soft pine board. The pellets, by the way, do travel at 350 feet per second, and it should be impressed on young shooters that pointing a gun down-range is the only safe way.

The V-350 is easily handled by anyone, and the accuracy of the gun is such that even untrained shooters can score, thus giving a new shooter encouragement to continue shooting. For experienced shooters, the V-350 makes it possible to practice snap shooting indoors without noise and very inexpensively.

### Black Powder Shotgun

An increasing number of shooters are becoming aware that burning black powder can be fun, though shooting is a bit on the slow side. Since shotguns of the muzzle loading era in good shooting condition are hard to come by, and many of them are too valuable to be dragged through the field, Century Arms is now marketing a double barrel 20 gauge muzzle loader of Spanish origin.

These guns have been proofed with full loads, and we checked the test gun not only with field loads but also with heavy proof loads. The right barrel of our test gun is full choke, the left barrel gives improved choke patterns.

Our loading started with 16 grains of FFG and worked up to a full charge, while the shot load was started with 290 grains of #7 1/2 lead shot and was boosted to one ounce (437.5 grains). Small pieces of newspaper served as wads and were seated tightly with the ramrod that comes with the gun. It is well to remember that black powder guns, especially those of the muzzle loading variety,

should be cleaned every so often between shots, and we found when using max. loads and not cleaning the gun, patterns were affected adversely.

It might just be that we will take a muzzle loading shotgun afield one of these days just to see what it feels like to hunt in a fashion that our grandfathers were accustomed to.

### Bullet News

Speer Products have hit the market with two important new developments. One that should appeal to all handloaders who are working up loads for a pet rifle, is the Speer Sample Service. Just mail Speer 25 cents in coin, and tell them what caliber and weight bullets you'd like to try. They will ship you five bullets of your choice. This means that you can work up a number of loads without having to buy boxes of 100 bullets that might not be used up and only clutter up your loading bench.

Right in step with this thinking is Speer's new "50 Pak." Budget priced 50 Paks are available in all calibers with the exception of .22's and pistol bullets. This will be good news for handloaders who load for a number of calibers and who do not care to tie up a lot of money in the customary boxes of 100 bullets. The 50 Pak is now on the shelves of your sporting goods store, and the Sample Service is working full time.

### Potter Lead Tester

How hard is a swaged or cast bullet? No matter how much experience a man might have testing lead hardness with an educated fingernail, no one can make up precision ammo by guessing at lead hardness. The Potter Lead Tester takes all the guessing out of the hardness question, and the scale of hardness is close enough for anyone who casts or swages bullets. Since a core extractor is now becoming available, more loaders will be using assorted scrap lead, and it will be important to know the hardness of the lead mixture that is being used. The Potter Lead Tester will take the guessing out of mixing various batches of lead and alloy, and also will do away with a lot of the alibis on the range when shots won't group.

### Sights for the 03-A3

A number of good 03-A3's are being fired in the original condition, simply because the owners don't feel that they want to invest too much money in changing the sights, especially if scope mounting is desired. The Wilpac Manufacturing Company, Gun Division, 203 N. Johnson Ave., El Cajon, Cal.,  
(Continued on page 12)



# ONE DOLLAR puts you in hand on these GUNS

Lay Away Plan: \$10.00 holds the Matador of your choice—but hurry!



## GREATEST SHOTGUN BARGAIN IN KLEIN'S 77 YEARS! NEW MATADOR 12, 16, 20 & 410 GAUGE DOUBLES!

**SAVE \$50.00 NOW!**

Spain's foremost quality shotgun maker... The Matador is respected and praised by men who know and appreciate fine guns. These are all latest 1962 models!

**CHECK THESE QUALITY FEATURES:** Selective automatic ejectors;... single selective triggers;... complete safety device of Anson & Deley system with double under lock;... firing pins individually spring mounted;... close grained hand checked French Walnut stock and beavertail forend;... Action proportioned for each gauge. All are chambered for all 2 3/4" high-velocity, Magnum or slug loads except for 410 gauge which takes either 3" or 2 3/4" loads.

**CHOOSE FROM THIS BIG SELECTION OF GAUGES AND BARREL LENGTHS:** (C20-T456) 12 gauge—28" or 30" barrel; (C20-T457) 16 gauge—26" or 28" barrel; (C20-T458) 20 gauge—28" barrel; (C20-T459) 410 gauge—28" barrel. 28" barrels are Modified and Full Choke (410 ga.—Full Choke, 410 ga.—Modified and Full). 28" barrels are Modified and Full Choke (410 ga.—Full Choke, 410 ga.—Modified and Full). 28" barrels are Modified and Full Choke (410 ga.—Full Choke, 410 ga.—Modified and Full). 28" barrels are Modified and Full Choke (410 ga.—Full Choke, 410 ga.—Modified and Full).

Immediate delivery. Certified \$189.50 Value!  
 PAY ONLY \$1.00 DOWN, BALANCE \$6.72 a WEEK for 22 weeks, or...  
 Matador 12 or 20 Ga. 3" Magnum Double, State choice: 28" or 30" barrels, Modified and full choke. C20-T696. Pay \$1.00 Down, Balance \$6.72 a week for 22 weeks, or... \$129.50

*The Matador*

- Single Selective Trigger
- Selective Automatic Ejectors
- Checkered Walnut Stock
- Beavertail Forearm

\$189.50 Value!

## SALE! New Matador 10 Gauge Magnum

SAVE \$60.00 NOW! Brand new famed Firearms International MATADOR 10-gauge (3 1/2" shell) Magnum Shotgun. Deep cut price due to slight change in forthcoming model. Made for F-1 by Aya of Spain. Perfect for ducks and geese to 100 yds., for fox and varmint. Shoots either 2 3/4" or 3 1/2" Magnum shells. Full choked barrels. Engraved receiver, selective automatic ejectors, double safety underlocks. Checkered French Walnut stock and beavertail forearm. 49" overall, 9 1/2 lbs.

C20-T772. Certified \$189.50 Mfr's List. Pay \$1.00 down, balance \$6.72 a week for 22 weeks, or... \$129.50  
 E20-T73. 10 Ga. 3 1/2" Magnum Shells, specify BB, #2 or #4 shot, \$7.20 for 25.

**.303 Br. Terrible Bargain!**



**SPECIAL WAR SURPLUS PURCHASE!**  
**ENFIELD SPORTER—NRA EXCELLENT!**

AVAILABLE WITH OR WITHOUT SCOPE... Amazing low price due to huge special purchase of British Military. The finest lot of Enfield No. 1, Mark IV Rifles we've seen... possibly the last of this quality that may be available for a long, long time! Buy with complete assurance your gun will be mechanically perfect... clean sharp rifling... with smooth, oiled fine-grained Walnut stock with little appreciable wearing of wood. Sporterized stock has good clean lines, balances well—permits fast, accurate shooting. Rear sight adjustable for windage and elevation, blade front sight. Turned-down bolt handle, solid brass butt-plate. 10-shot removable clip, sling swivels, 44 1/2" overall, 303 British Caliber. Leather carrying strap furnished when rifle is ordered with Tasco 1" diameter 4X Scope. C20-T991. Rifle, Only... \$17.88

ENFIELD RIFLE WITH FLEETWOOD 4X SCOPE, 3/4" diameter, Mounted—Ready for Shooting! C20-T992. Pay \$1.00 Down, Balance \$27.88 \$1.41 a Week for 22 Weeks, or... \$27.88

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## U.S. M1 .30 CALIBER CARBINE—15 SHOT Semi-automatic



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

The only U. S. Military small arms made with the lines and weight of a modern sporter. Weighs only 5 1/2 lbs. 18" barrel, 36" overall. Gas operated 15 shot semi-automatic. Receiver sight adjustable from 100 to 300 yds. New Condition! Superbly accurate, 100% dependable.

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C20-T859. M-1 Carbine—Very Good to Excellent Condition. \$1.00 Down, \$3.59 a Week for 22 Weeks, or... \$69.50

F20-T50. Sling with oiler \$2.00; F20-T51. Pistol Nut Wrench \$1.00; F20-T52. 15-shot Magazine, 3 for \$1.00; F20-T53. Flox Hider \$3.95; F20-T54. 30 cal. Military Ammo, \$7.50 per 100 rds.; F20-T55. Hunting Ammo, \$5.00 per 100 rds.; F20-T56. American Magazine, \$2.00; F20-T57. Muzzle Brake \$3.95; F20-T58. 5-shot Magazine \$2.50. (Minimum Order \$5.00.)

## WAR SURPLUS! 30/06 AUTO. U. S. M-1 GARAND RIFLE—LAST CALL!

NRA Very Good Condition! Made in world famous Springfield Arsenal, "as issued." 30/06 caliber, 8-shot, 24" barrel, 42" overall. All milled parts. Adjustable sight. Pay \$1.00 down, \$4.19 a week for 22 weeks, or... \$79.95

C20-T25—Only... \$79.95

C20-T26—Garand in specially selected condition... \$89.95

E20-T1000—Military Ammo, per 120 rounds... \$7.20

## VARIABLE POWER SCOPE! 3X To 9X

Brand new! First quality! Well known make! With a twist of the wrist you can have any power you want from 3 to 9. Fixed reticle is never off center—only image moves! Magnesium fluoride hard coated lenses, windage and elevation click stops, parallax corrected, nitrogen filled for fog proofing. Large eye piece and objective, 1" tube, cowhide lens caps. Overall 12", 14-oz. Compare to \$69.95 Scopes Elsewhere!

B20-T693. \$1.00 Down, \$1.77 a week for 22 weeks, or... \$34.88

## WAR SURPLUS! U. S. SPRINGFIELD M1903—30/06

SPRINGFIELD M1903'S LIMITED QUANTITY! Most popular military rifle for sporting use in their all... and this lot are all Model 1903-A1's with high number Nickel-Steel receivers, milled working parts. Made in Rock Island Arsenal—near commercially assembled, 30/06 caliber, 5-shot magazine, Adjustable rear leaf sight, blade front sight, 43 1/4" overall, 8.65 lbs. Walnut stock. Good to Very Good Condition.

C20-T855. Pay \$1.00 Down, \$2.04 a Week for 22 Weeks, or... \$39.95

C20-T856. Springfield in Select Condition... \$44.95

C20-T1009. AMMO, 30/06, 156 gr. in 5 rd. clips, 120 rounds in 60 rd. bandoleers, only... \$7.20

## LATE ISSUE! 6.5 ITALIAN CARBINE

Only 36" overall, weighs only 5 1/2 lbs. Shows only slight use, lightly oiled, test fired and head spaced, ready for shooting. Turned down bolt, thumb safety, 6-shot clip fed. Rear sight adjustable for elevation. Fast loading and fast firing.

C20-T749. Specially Priced at Only... \$11.88

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C20-T751. 6.5 mm Italian military ammo with free 6-shot clip, 108 rds... \$7.50

## BRAND NEW! FIRST QUALITY! 30-30 or .35 Rem.



THESE MARLINS ABSOLUTELY BRAND NEW, factory packed latest 1962 models with full Marlin warranty. Famous Marlin fast shot throw lever action. Tubular magazine holds 7 shots. Removable scope is nitrogen filled to prevent fogging.

Select oiled Walnut pistol grip stock. Famous Marlin Micro-Grooved barrel. Tip-off mounts for quick, simple scope removal. Scope is nitrogen filled to prevent fogging.

open rear sight, receiver drilled and tapped for adaptor mount (furnished) for tip-off scope bases. 20" barrel, 38 1/2" overall, 7 lbs. Included FREE! factory fitted recoil pad, sling swivels and oiled leather sling with brass \$69.88

C20-T773. Certified \$94.95 Mfr's List. Pay only \$11.00 down, balance \$3.60 a week for 22 weeks, or... \$94.88

MARLIN 336C WITH 4X SCOPE—Mounted... Ready to shoot! Well known, fine quality 1" diameter 4X Scope with hard coated magnesium fluoride lenses, click stops for windage and elevation adjustments. Tip-off mounts for quick, simple scope removal. Scope is nitrogen filled to prevent fogging.

MARLIN 336C, 4X SCOPE, MOUNTS, RECOIL PAD, CARRYING STRAP, SWIVELS. Compare at \$139.70 elsewhere! \$94.88

C20-T774. Pay \$1.00 Down, \$4.91 a week for 22 weeks, or... \$94.88

## FRONTIER DERRINGERS PRICES CUT!

FLASH! 38 Sp. Reduced from \$39.95 to \$27.50!

Brand New! Exact copy of original Remington 2-shot Derringer. Quality made in Germany with twin floating firing pins. Best German Derringer made! Pay \$1.00 down...

E20-T10. 22 Blue... \$16.95  
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E20-T14. Chromed .38 Special Derringer. Certified \$39.95 Value. \$1.00 Down, \$27.50 \$1.80 a week for 22 weeks, or... \$27.50

## .38 & .45 WEBLEYS—While They Last!

Famed British Pilots' and Officers' Revolvers. Rugged and dependable. Double action, 6-shot, auto ejection. Good condition inside and out. 6 harmonics clips furnished with 45 ACP caliber. E20-T90—38 S & W Cal., 6" Brl., Only... \$16.95

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Add \$3.00 for special selection, if desired.

## M1917—COLT .45

U. S. Government M1917 Service Revolver. 45 ACP Caliber—6 half-moon clips included. 5 1/2" barrel. Blued finish. Good condition inside and out. E20-T91—Only... \$24.95

Illustrated, Colt .45 with 2 1/2" snub nose barrel. E20-T17... \$29.95

## .38 S & W ENFIELD NO. 2, Haster Free!

One of the fastest loading, firing and ejecting revolvers ever made and certainly one of the safest. Double action only. 26 rounds in 1 1/2" overall. Hinged frame, break-open action, fixed sights, hard rubber grips. Good condition outside and in. E20-T97. Only... \$14.88

E20-T99. Enfield No. 2, converted to 2" snub-nose (Holster not included)... \$19.88

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HANDGUN AMMO—per 50 rds.  
 .38 S & W (E20-T467)... \$4.30  
 .45 ACP (E20-T468)... \$2.50  
 .38 S & W (E20-T469)... \$2.50  
 .38 Special, 158 gr. metal jkt (E20-T998)... \$3.50

## NEW! RUGER BEARCAT REDUCED!

PLUS FREE CREDIT! The "Bearcat" is made to standards of precision and quality that will fascinate the man who understands fine firearms. The "Bearcat" possesses a grip which is comfortable and secure even in a large hand. Has clear sights and the feeling of being heavy for its size. Makes accurate shooting easy. 22 cal. Long Rifle, long or short, high velocity or regular. Six shots. Heat treated engraved steel blued finish with recessed chambers, 4" barrel, 17 oz., 8 1/2" overall.

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## NEW! BROWNING 22 AUTO!

Overall 9" with 4 1/2" barrel. 1 1/2" partridge front sight, rear sight adjustable for windage and elevation—7 1/2" sight radius. 10 shot, 27 oz. Blued finish blue-black checkered grips. Pay \$1.00 Down. No Carry Charge if paid in 22 Weeks. Only \$26.00. Carry Charge 11 Paid in 44 Weeks.

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Exact super-accurate modern shooting reproduction of the famous 1873 Single Action Frontier Six-Shooter most prized by the men of the old West. Made by a famed German Gunmaker in the same size and weight of the original models. Excellent blued finish. 40 oz. weight, 5 1/2" brl. Brand new! Shoots .22 short or long rifle. 106. Carry Charge \$1.00 down, \$2.04 a week, or... \$39.95

B20-T61. Six shooter in .22 Magnum... \$39.95 pld.

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 \$169.50 VALUE!

**\$119.50**

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 For Only 22 Weeks

## DELUXE MARLIN 336C!

With RECOIL PAD..SWIVELS SLING..PRICE CUT \$25.07!

THIS IS FOR YOU: For every man who knows a solid \$25.07 savings on the most wanted lever action rifle... and you not only get big savings but given with every rifle are... a factory mounted recoil pad... and a fine sling!

model... solid \$25.07 savings on the most wanted lever action rifle... and you not only get big savings but given with every rifle are... a factory mounted recoil pad... and a fine sling!

factory mounted swivels!... solid \$25.07 savings on the most wanted lever action rifle... and you not only get big savings but given with every rifle are... a factory mounted recoil pad... and a fine sling!

THESE MARLINS ABSOLUTELY BRAND NEW, factory packed latest 1962 models with full Marlin warranty. Famous Marlin fast shot throw lever action. Tubular magazine holds 7 shots. Removable scope is nitrogen filled to prevent fogging.

Select oiled Walnut pistol grip stock. Famous Marlin Micro-Grooved barrel. Tip-off mounts for quick, simple scope removal. Scope is nitrogen filled to prevent fogging.

open rear sight, receiver drilled and tapped for adaptor mount (furnished) for tip-off scope bases. 20" barrel, 38 1/2" overall, 7 lbs. Included FREE! factory fitted recoil pad, sling swivels and oiled leather sling with brass \$69.88

C20-T773. Certified \$94.95 Mfr's List. Pay only \$11.00 down, balance \$3.60 a week for 22 weeks, or... \$94.88

MARLIN 336C WITH 4X SCOPE—Mounted... Ready to shoot! Well known, fine quality 1" diameter 4X Scope with hard coated magnesium fluoride lenses, click stops for windage and elevation adjustments. Tip-off mounts for quick, simple scope removal. Scope is nitrogen filled to prevent fogging.

MARLIN 336C, 4X SCOPE, MOUNTS, RECOIL PAD, CARRYING STRAP, SWIVELS. Compare at \$139.70 elsewhere! \$94.88

C20-T774. Pay \$1.00 Down, \$4.91 a week for 22 weeks, or... \$94.88

## SPECIAL WAR SURPLUS PURCHASE!

SMITH & WESSON .38 S&W or .38 Special Caliber!

NRA VERY GOOD TO EXCELLENT Limited Quantity \$29.88 Up Order Today!

Dollar for dollar no revolver can touch the Smith & Wesson Military and Police Victory Model for dependability, trouble-free performance and accuracy! A favorite of the military and law enforcement agencies for 47 years! We have a limited supply in NRA Very Good to Excellent Condition—rifling sharp and mechanically perfect. Square notched rear sight, 6-shot, 30-oz., overall 10 1/4" with 5" barrel. Walnut grips, lanyard swivel. Micro-Groove 24" barrel gives greatest accuracy and is nitrogen filled to prevent fogging, provides full 20" field of view. 2 1/4" barrel length and equipped with fixed ramp front sight.

E20-T994. .38 S&W Caliber, 5" barrel... \$29.88

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Save now on the most wanted lever action .22 rifle ever made... complete with essential accessories! Marlin Golden 39A is fast handling, completely dependable. Microgroove 24" barrel gives greatest accuracy, longer barrel life. Tubular magazine holds 26 Short, 21 Long, or 18 Long Rifle Cartridges. Choice American Walnut Stock with swivels, gold plated trigger, open sights.

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Needed accessories include leather-lined deluxe Case with full zipper opening, deep pile lining, molded tip... complete Cleaning Kit in steel box... saddle leather Carrying Strap with brass fittings.

Marlin Golden 39A with 3/4" diameter Scope, Mounts and Accessories, ready to shoot. Compare with \$106.80 rifles elsewhere!

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At last—a dandy-handly 2½ lb. Single Shot smooth bore rifle, newly manufactured and proof tested by the Belgian Government, in the ever popular 44 cal. An ideal rifle for the beginning "black powder" shooter at an unheard of Low PRICE — ONLY

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Brass bullet mould for 44 cal. conical bullets or round ball. For the price of its wght. in brass —

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Available in 8 different time lengths —packed 5 to a packet with instructions for using.

**\$1.00 EACH EIGHT \$7.50**

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Every Civil War collector needs one for that carbine ring to be com. A genuine C.W. item

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G.I. .45 AUTO HOLSTERS

Made of brown saddle leather complete with flap and belt hook at a never before advertised price

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NEW 1¼" LEATHER RIFLE SLINGS

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GERMAN ZF-41 Sniping Scopes complete with mount — close out ..... \$12.95 Rifle Grenade Parachute Flares, .51. ex. COMPLETE Grenade Launching Kit — with gr. launcher, gr. launcher sight and spare parts ..... \$3.50

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(Continued from page 10)

markets a peepsight-riflescope base that is unique and highly serviceable. The peepsight is incorporated into the rear scope block, and the unit makes a very neat appearance. The base is designed for use with Weaver rings, and the number 55 Weaver block fits just dandy. The peepsight is fully adjustable and can be folded back when not in use. The sight carries the code number DSM 400 and sells for \$12.

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Ophthalmic or what, such brief testing as we have done here indicates that this is an efficient, thoroughly acceptable hunter's or outdoorsman's tool, giving a bit more magnification than many of us carry in binoculars.

(Continued on page 65)

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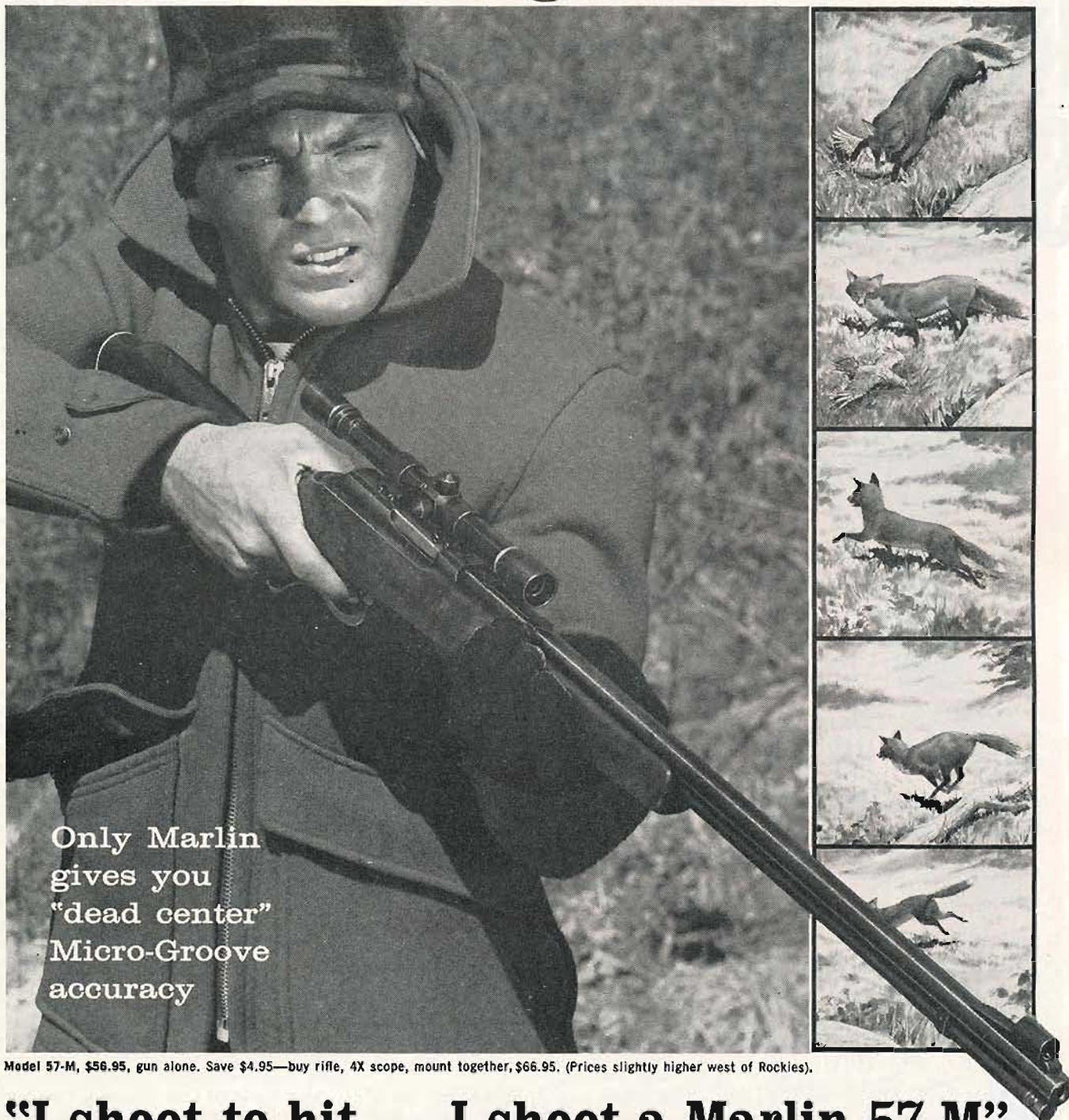
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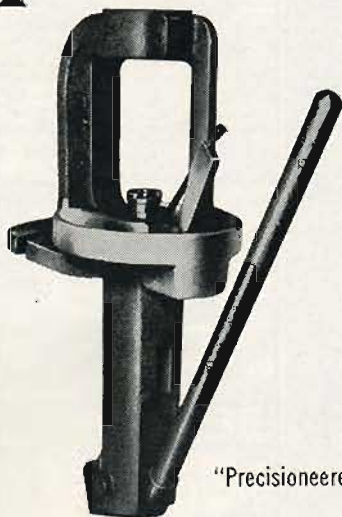
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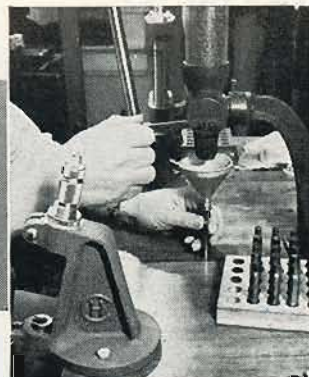
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## HANDLOADING BENCH

By KENT BELLAH



### The Buck Busters

**R**EPORTS FROM deer hunters are always interesting. The Buck Busters had a good time in this area this past season. A few uninformed lads used inadequate rifles in the .25-20 and .32-20 class, I'm sorry to say. Roy Proctor, 14, bagged a buck at less than 10 yards with a 16 gauge shotgun slug. A perfect shoulder hit, the slug expanded well, and stopped just under the skin.

The tree sitters had their share of hard luck. A 12 year old lad blasted at a deer with his .30-30. Recoil knocked him off the limb. He wasn't injured, but missed his first deer. Monroe Thomas had a tree limb break, resulting in two broken ribs.

Troy Doyle bagged two deer with a .308 Winchester. Loads were CCI Magnum primers with 44 grains 4064 behind 130 grain Speer H.P. pills. At 65 yards, a heart shot in a running doe made a 4" exit hole. A buck going straight away dropped in his tracks with a shattered spine at 50 yards. Troy says the velocity, about 2700 fps, is all that he needs.

A handgunner took a nice buck at about 60 yards with a S & W 4" .44 Magnum, dead center in the chest, for a clean kill. His load was a C-H Swag-O-Matic 225 grain pill backed with 23 grains W-W 295HP Ball, in a Super-X case and a CCI Magnum No. 350 primer. Tissue destruction looked like the work of a rifle.

A chap with a Browning .264 used 70 grains 4831 and a CCI Magnum primer with a 100 grain Hornady pill. A shoulder hit at 75 yards made a 4" exit hole, with terrific internal damage. He also dropped a doe at a bit more than 300 yards with a spine shot that clipped the backbone for a clean kill. The range was estimated.

R. L. Maxie used his Winchester .264 to bag a running buck at over 200 yards. Max used a 100 grain factory load for a perfect lung shot and clean kill. Max said he was manufacturing hulls for reloads. The exit hole was made by the bullet core, as the jacket, curled back and split, was found in the venison.

My shooting pal, Kenneth Shackelford, used his Browning .264 on two deer. Shack swung about "two bucks" ahead of a running buck at close to 300 yards and dropped the hammer. The deer ran 40 yards and dropped dead. Another one got the same load at about 200 yards, with the same results. Exit holes were about 3½ inches with the lungs destroyed. Loads were 140 grain Speer pills backed with 62.5 grains 4831 and CCI Magnum primers. This load is very accurate, expands well at all ranges, and causes great internal damage.

Ruger's Deerstalker Carbine bagged two bucks, both clean kills at around 50 yards. One fell to a neck shot with a Norma bullet in a Norma case, backed with 23.5 grains 2400 and a CCI Magnum No. 350 primer. It made a 2" exit hole, blowing out pieces of bone. The other was a raking shot through the lungs, equally deadly. This load about equals Norma's excellent factory fodder. Both group well, in about 1½" at 50 yards, using a Weaver K-6 glass in Weaver mounts. The little carbine is a honey for fast shots on running game at moderate range. The fast firing big bullets make a large entrance hole and have adequate punch in either a rifle or revolver. I like the Norma bullets very much.

Norma-Precision does much more test shooting than most individuals. Mr. E. H. Sheldon, President, told me their Detroit Magnum Bullet Trap had severe metal distortion after firing several thousand Norma .44 Magnum loads in it. Welding a piece of ½" boiler plate on the angles eliminated the trouble. The big Detroit trap is a good one, but the heavy .44 Magnum abuses it something terrible, if it isn't reinforced. The Ruger Carbine shoots completely through the Standard (.22-.38) Model, that wasn't intended for such use.

### News & Tips

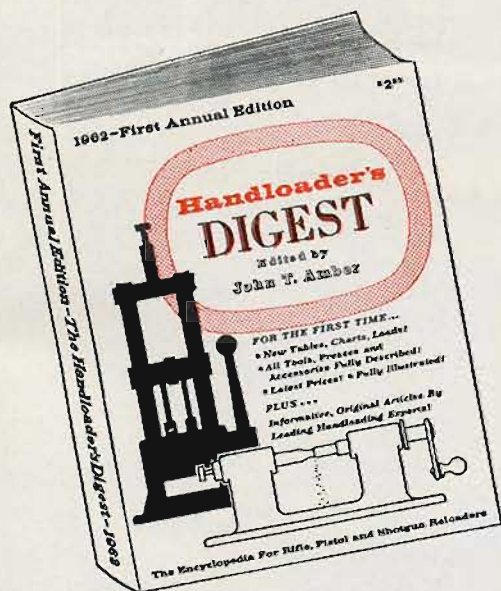
If you switch from flat base to boat-tail bullets, be sure they are seated deep enough to be held friction tight. Failure to do so might cause an extracted round to leave a bullet in the bore, filling the action full of powder. Chambering another round might drive the bullet into the case, resulting in a wrecked rifle if you pull the trigger. The same trouble can be caused with any bullet from a sloppy sizer or oversize expander. Bullets should be tight enough in cases that they can't be pulled out easily with your fingers. Always use quality dies.

Don't overlook neck reaming and case trimming for both safety and accuracy. Pressure increases greatly with long cases or thick necks. Reduced charges are not a satisfactory solution. Bullets should always drop freely in fired hulls, that should take a gauge .002 larger than bullet diameter. Reamers for straight line trimmers, such as the excellent Forster, are .002-.003 over bullet diameter, proper for safety and best accuracy. If hulls accept a .004 gauge you may have a sloppy throat, thin, or non-uniform necks.

A lad got lousy accuracy with my rifle loads using .30 caliber 100 grain C-H Swag-O-Matic pills. The trouble was traced to his loading press, that was badly out of alignment. Quality dies are a "must," but alignment.

(Continued on page 61)





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Comments and opinions in this article are those of the author and do not necessarily reflect those of the Army or of the Department of Defense.



Firing lines on new Trainfire ranges use logs, foxholes, and other supports for shooting at man-shaped targets.

# WHY ARE ARMY RIFLEMEN BUM SHOTS

# ?



Individual marksmanship is taught by coach and pupil method with each man taking his turn as shooter, coach. In Trainfire, hasty sling is outdated, even with the M-14.



**AIMED RIFLE FIRE WILL STILL BE A  
DECISIVE FACTOR EVEN IN A NUCLEAR WAR,  
YET TODAY'S ARMY MARKSMANSHIP IS AT LOW EBB**



Even in nuclear war the rifle must play a vital part. Units kept small to reduce losses from nuclear blows, will fight patrol actions with standard infantry arms.

By COLONEL CHARLES ASKINS

**T**HE AMERICAN SOLDIER these last years, whether in peace or war, is no great shakes as a rifleman. The reasons are neither obscure nor numerous. Above other considerations, our trooper is poorly motivated, admits to little ambition to be a crack shot, is multitudinously involved in nuclear-warfare training, and suffers in a shooting program which is in a fluid state of transition at this time.

We entered WW2 with the idea that we were a nation of riflemen. This was a holdover from the first world war, when a lot of tales were bandied about as to our skill with the rifle. Such was our hurry in training for the next major holocaust, we didn't give our soldiers much grounding in marksmanship. What was even worse, we failed to give 'em the proper motivation. A newspaper reporter, S. L. A. Marshall, found when he interviewed several thousand combat riflemen after the great war that these buckos sometimes fought for a couple of days during a big push and did not burn up a clip of cartridges. This failure to fire got so bad that a brand new school of thought entered the training picture. This was marching fire.

The infantry during the advance was instructed to take no particular aim but just to point the musket toward the

front and trigger off a shot every five or six paces. After WW2, the army took stock of that one and heaved it out the window. It was decided to go back to aimed fire.

About this time, a gent by the name of Service, no relation to the poet, wrote the Department of the Army and said he thought the business of potting away at shiny, black bullseyes superimposed on a lovely sheet of clean white paper at a distance known to everyone from the colonel down to the latrine orderly, was sort of stupid. He thought it would be a lot better if we fired at targets which looked and acted like the enemy; targets that were man-shaped, and were partly hidden, and fell when hit the way an enemy does when he takes one amidships.

The D/A thought Mister Service had something. Down at the infantry center at Fort Benning, was a research group known as HUMRRU (Human Research Unit), and among others was a college professor by the name of Jones who was on loan from the University of North Carolina. With the Service letter before him, our college professor evolved a shooting system which he very aptly dubbed, "Trainfire."

This new system was to be a revolutionary short-cut to

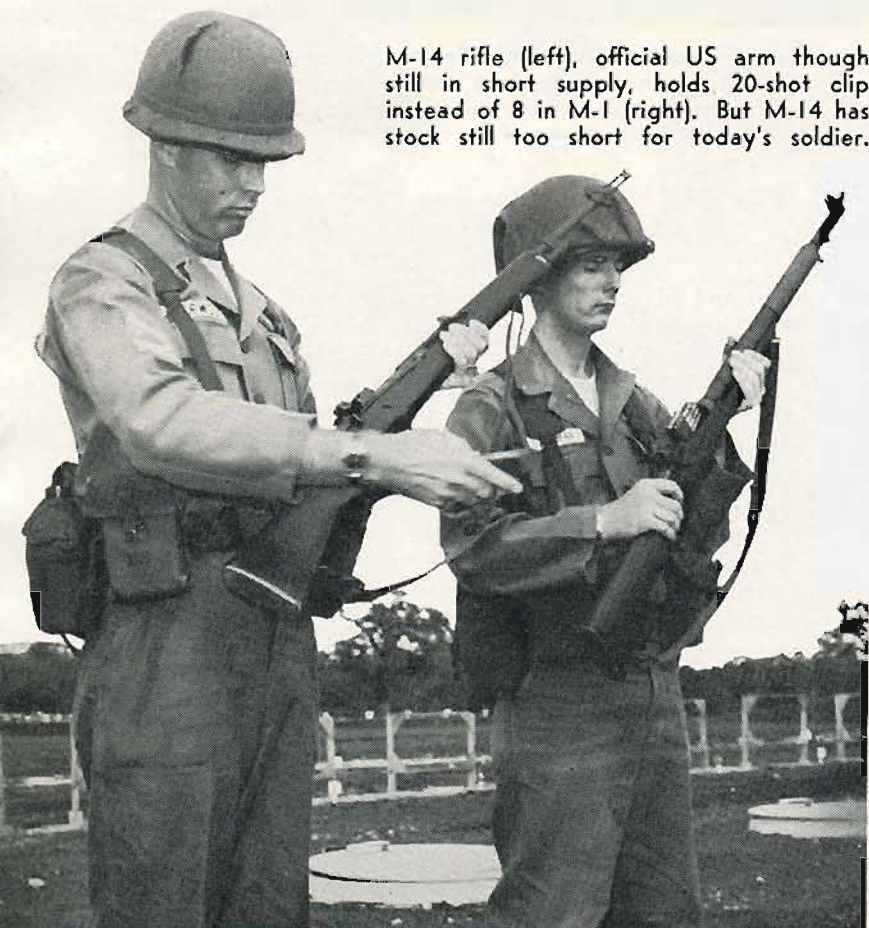




This Vietnamese, much taller than most, finds short rifle too small. US recruits today have same trouble with an M1.



Two-inch reduction in stock length (above) paid off for 5'2" Vietnamese, who prefer squatting (left) to sitting for better shooting comfort.



M-14 rifle (left), official US arm though still in short supply, holds 20-shot clip instead of 8 in M-1 (right). But M-14 has stock still too short for today's soldier.

the training of the combat rifleman. A lot of the old preliminary rifle instruction, the monotonous business of learning the shooting positions, correct sight picture, trigger squeeze, the use of the sling, and rapid reloading, was to be slighted.

The new marksman would shoot his rifle, the very first day of instruction. This was going to give him confidence. Directly after that, he would shoot groups at 25-meter range; and with almost the same alacrity he would move on to the 300-meter field firing range. Except at 25 meters where the gunner shot at a half-bullseye (the upper half), the targets all resembled the enemy. That is, they were man-shaped, and when struck by the bullet they tumbled in a realistic manner.

This latter idea was good, and certainly was a lot closer to combat than plugging away at a shiny black aiming spot beautifully silhouetted on a square of white paper. It was planned that the new targets would be camouflaged somewhat, and thus target detection would be combined with marksmanship. Target distances were unknown to the firer and this, too, would force the shooter to make some quick decisions as to the gun-to-target range. This was Trainfire.

Trainfire was hailed as the final answer. But somehow it has not worked out quite up to rosy expectations. It has been around several years now, but there has been no noticeable up-swing in the shooting skill of our soldiery. Two things have mitigated against its full success.

In the first place, the recruit gunner has been rushed along too fast. There are no shortcuts to the development of a basis for shooting skill. You cannot inoculate the tyro marksman with the hold-and-squeeze virus. He must be put through a course of sprouts which includes many days of learning how to hold the rifle and how to mash the trigger. The instructor can tell him, but that is as far as he can go. It is up to the recruit, through tedious repetition, to achieve a reasonably steady aim.

Beyond this, from the standpoint of cost, the Trainfire range seems to resemble the down payment on an ICBM or a super carrier. The army first planned optimistically to build the ranges at all army installations, but the price tag was found to be too high. To date, Army has relatively few of these fancy-dan layouts.

Recently, the Continental Army Command (CONARC) directed the infantry school to assemble a board of combat officers to consider future rifle marksmanship training. Reading between the lines, it was plain to see that CONARC has some pretty grave doubts about the efficacy of the new Trainfire.

The board, among other things, sent out more than 400 questionnaires asking for advice. These went to all army and corps commanders, the five training centers, the four combat divisions here in the ZI, to the Guard and reserve divisions, to the adjutants general of the 50 states, and to two classes in the infantry school. The board caused research and tests to be conducted; old and new firing reports were carefully scanned; magazine articles (including those appearing in GUNS these last several years) were (Continued on page 39)





Mosin-Nagant, top, with 4X PE scope. Tokarev M1940 with 3.5X PU scope. Both guns chambered the 7.62 mm ammo.

# USSR SNIPER

## *The Myth, and the Reality*

By LT. WILLIAM H. TANTUM IV, USAR

**T**HE RED ARMY sniper is as dark and mysterious as Russia itself. Many fantastic stories have come out of the mists that shroud the U.S.S.R., but none are more fantastic than those about the Russian sniper and his arms. Only in the last weeks of the ill-fated Finnish campaign did the military and civilian world begin to see a definite outline of the Red sniper and his arms. Undoubtedly, the importance of real sniping was uncomfortably impressed on the Russian troops when they encountered the Finnish snipers who were equipped with superb rifles and excellent telescopic sights. Add to this the fact that these snipers were all hunters, trained and skilled in handling guns and in estimating ranges, and there is little wonder that the Red

soldiers were, to say the least, discomfited by their experiences. Russian Army snipers get their early training in the Ossviachim rifle program. There they are furnished with a sporter of 5.5 mm caliber (approximately .22 caliber). These rifles, known as TOZ8 and TOZ9, are fitted with peep and open sights. If and when a student becomes a qualified marksman, he might be fortunate enough to receive a telescopic sight. Basic firearms training is held indoors on the 25 meter range, and once this step in training has been mastered, training continues outdoors. Here the student sniper must learn to get tight groups at 50 meters, and as rifle proficiency (*Continued on page 57*)



# ARE YOU Over-Gunned?

By RAY CAMP

**I**T MIGHT BE SAID that the three Ms—Magnums, Magnification and Maladjustment—are largely responsible for the aches and pains of many shooters today.

Reducing this to English, it merely means that we are shooting heavy loads in the scatterguns because we tend to overestimate the range at which we kill birds; we mount the gun badly because we are in a hurry; and, finally, most of us use a gun that doesn't fit us in the first place. That makes for more "kick," and that makes for more "flinch." A lot of shooters, and this may include you, are missing birds that should go in the game pocket because you are awaiting—unconsciously perhaps—the jolt your shoulder will get when you pull that trigger.

Flinching is not only the most common ailment of the shotgun shooter, but the one that is most difficult to cure, possibly because many shooters suffer from the disease and don't know it. We do know the cause, at least in about 99 per cent of the cases.

Several years ago, a friend of mine, an enthusiastic upland game shooter who turned in really fine scores on grouse, quail, doves, and woodcock, decided he was missing something by ignoring duck shooting. He was a one-gun shooter. That gun was a fine Parker sixteen with 28 inch barrels bored modified and full. In his hands it had subsisted on a diet of low-base shells, for these were all he needed for the shooting he did.

His first duck shooting trip was to the St. John River in New Brunswick, and he became an ardent wildfowler. When I met him in late November, on the Outer Banks of North Carolina, the Parker had given way to a magnum twelve. At this point it might be well to explain that he stood about five feet four inches in his sox, and his build was what some might term



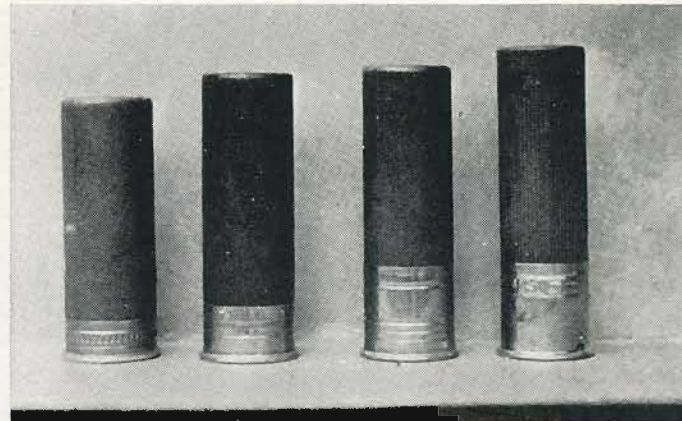
Recoil of properly fitted, properly mounted trap gun did not disturb 14-year-old Nick Egan as he won 55th "Grand American Handicap" championship.



## WHICH OF THE "THREE EM'S" IS CAUSING YOUR MISSES? HERE ARE SOME TIPS THAT COULD IMPROVE YOUR SHOTGUN SCORES



"Try gun" being adjusted by Winchester gun fitter Paul Doane, tells stockmaker exact measurements needed by gun owner.



Shown above (left to right) is the British low-base load used for pheasant and grouse, an American low-base, an American hi-base express load, and an American 3-in. Magnum.

Planting gun against boney structure of the shoulder in overhead shot (left) inevitably results in bruising punishment from recoil.

"slight" and others "scrawny." I shot with him two days at Mattamuskeet, and when he touched off that magnum I could feel it myself.

A few weeks later, I spent a day with him on a shooting preserve. He was back with the old sixteen, but it was not back with him. He was burning twice as much powder for half the results. I could see what was wrong by the time he had made three or four shots, but it was none of my business.

An hour before we were to call it a day he missed a bird that should have been a set-up, and looked at me with misery in his eyes. "What am I doing?" he asked.

I tried to figure out an easy answer, and an idea occurred to me. I handed him the light 28 gauge double I was shooting and took his sixteen. "Hold it out," I said, "with the muzzle a bit up and with your elbow bent."

He did as I suggested, but giving me a puzzled look.

"Push off the safety and pull the trigger."

He followed orders. The recoil bent his arm a bit but the muzzle hardly wavered.

His glance was still puzzled.

"Give me the empty shell."

He broke the gun and handed me the empty.

"You still have one shell in the chamber," I told him. "I'm going to toss this empty in the air. You hit it."

When the gun cracked, the empty shell spun away in a whistling arc.

He looked at me with a grin that showed full comprehension. "You really think that's it?"

The next two birds he flushed proved it.

He had let his mental process (Continued on page 48)

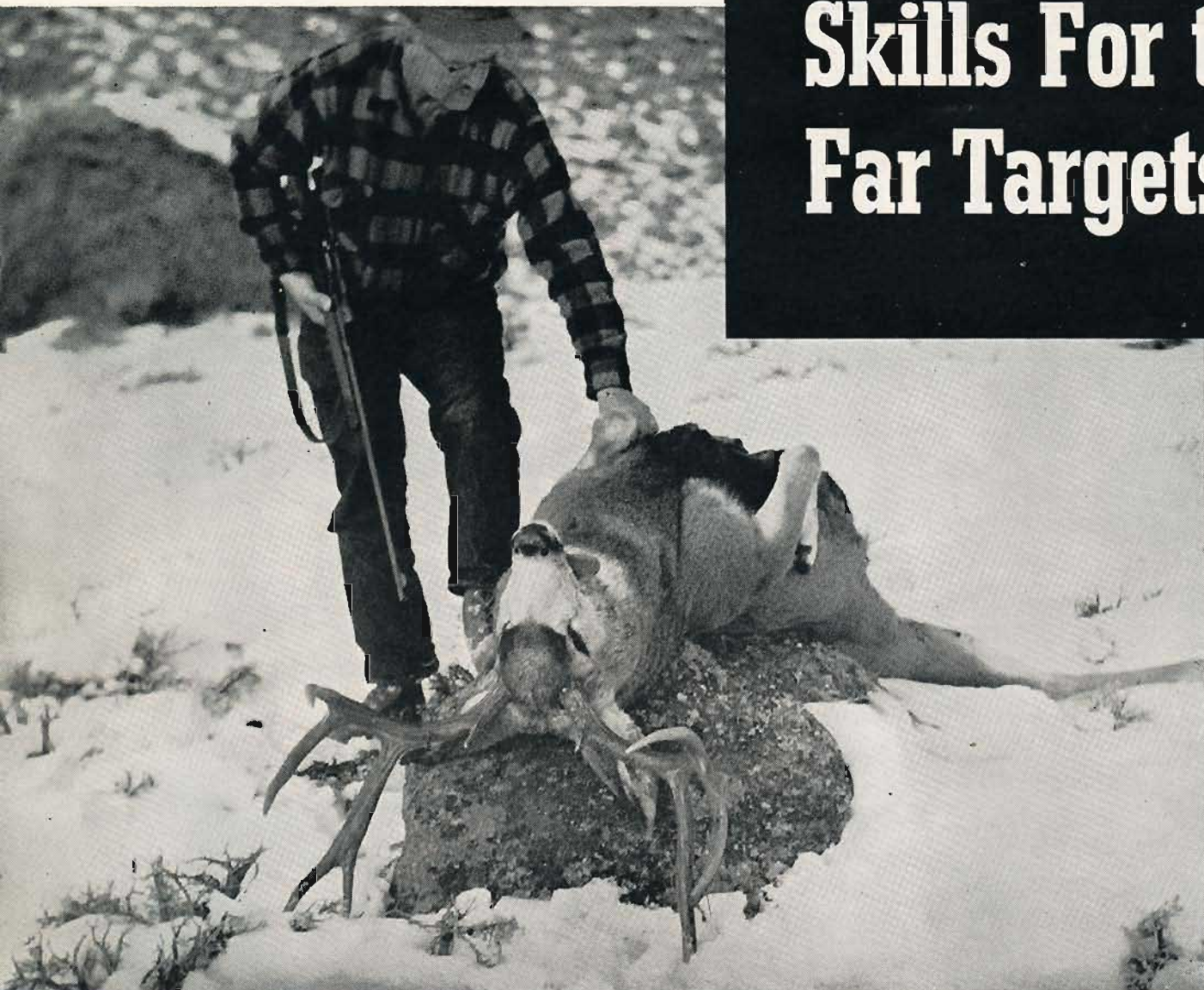


Shooter's awkward position forces gun butt out of shoulder pocket, increasing effect of kick.



IF IT'S THE LONG SHOT  
OR NO SHOT, BE SURE YOU HAVE THE

# Rifles and Skills For the Far Targets



Terrain and animal wisdom may put top trophies out of reach of all but the best of skill and equipment.

By CLYDE ORMOND

**T**HE BEST WAY to make a long-range, flat-shooting, and highly accurate rifle out of the average medium-powered deer rifle is simple: sneak a hundred yards closer to the game.

However, this can't always be done because of the terrain, wind conditions, or other factors, and then the hunter is faced with the choice of either passing up the chance or taking a long shot. Not long ago Colonel Askins (*GUNS*, February, 1962) wrote that long shots are for bad hunters. I would change this only a little and say: long shots are *only* for hunters who are perfectly equipped for

them—right rifle and load, and the essential skill to use them—and then only when the long shot is the only shot possible. Let me give you some examples.

This past deer season, Jack Slack, sales manager for Leupold Scopes, and I were hunting during Wyoming's late-late hunt. The deer from the Hoback-Jackson Hole drainages were drifting towards their winter range near South Pass; and the country where they moved to was all sage-brush and rolling hills, covered with up to a foot of fresh snow.

As Glidden McNeel, our outfitter from Alpine, herded





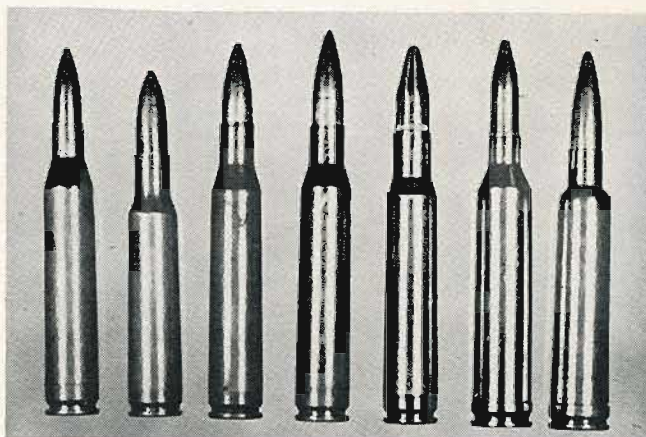
In country like this, the skilled marksman with a super-special long-range rifle may score a hit where an average hunter would be wise to hold fire.

the desert-equipped truck up the drifted road (largely a couple of coyote tracks), we spotted a big 4 point buck. He'd already seen us and was bounding off at maybe 500 yards, with just his prized antlers showing above the snowy crest of the knoll.

Quickly, Glidden and Jack left the truck, skirting the under side of the opposite hill, and tried for a stalk. The wind, in that high plateau country, kicked up a virtual blizzard. When they succeeded in reaching the crest of their hill, the buck was already standing near the skyline of the next one, ready to bolt.

"You'll have to try him from here," Glidden said. "And quick."

Jack shot from solid sitting position. All he got was a spray of hair from the buck, no hide or meat, and some added experience. It wasn't that Jack couldn't hold on that buck. I've watched him bowl over chucks at over 300 yards. And he used a custom-made .30-06, with maximum handloads and gilt-edged accuracy. But the wind, at approximately 400 yards, was just (Continued on page 45)



Here are some fine long-range cartridges compared with some good standard old-timers. Left to right, .25-06, 7 mm Mauser, .270, .280, .30-06, .264, and a 7x61 Sharpe & Hart. Handloads offer many choices.



Two of the author's fine long-range rifles are the 7x61 Schultz and Larsen with Leupold 6X Mountaineer scope (top), and custom-stocked .264 Magnum with Weaver 6X scope in Weaver top mounts.



# THE SHOOTIN'EST

MARV DRIVER CAPTAINED  
"THE GREATEST PISTOL TEAM EVER."  
HIS WIFE AND DAUGHTERS  
ARE KNOWN TO RIFLE MARKSMEN AS  
"THE MICHIGAN WRECKING CREW"

By DICK MILLER

Lenore and Candy Jensen pose with proud Marv Driver, pistol champion. Girls take pride in their scores, admire each other's rifle skill.



"I NEVER THOUGHT I'd live to see Marvin Driver carrying rifles!" quipped one of the contestants in the great national championship rifle and pistol matches at Camp Perry, Ohio. "That's like seeing Sam Snead swinging a tennis racket!"

The surprise was feigned, but the analogy was apt. No knowledgeable shooter would have been surprised to see Marv Driver carrying a pistol (or pistols) along the mile-long ready line at Perry: this he has done many times, to the sorrow of many a would-be handgun champion. But pistol shooters are pistol shooters, and rifle shooters are rifle shooters, and never the twain shall meet—or rarely.

So what was Marv Driver—pistol shooter personified, captain and member for 20 years of the shootin'est pistol



# FAMILY



Proud mother (champion riflewoman) and father (champion pistolman) plant kisses on cheeks of daughter Lenore, champion riflewoman in her own right, following one of the latter's victories.



The shooting Drivers don't believe in keeping shooting skills all in the family. Mrs. Driver is shown above coaching a class of Allen Park High School girls who may seek Driver laurels.

team in history (over 50 records set, some of them only now being equaled), long-time chairman of the NRA pistol competition committee, and perennial Chief Range Officer at the national pistol championships—what was Marv Driver doing not only openly consorting with smallbore rifle shooters but actually carrying three highly professional looking .22 target rifles?

Well, even the best pistolmen have their weaknesses, and Marv has three. They are three of the loveliest and most charming women you can find on any rifle range, or anywhere else, for that matter: his wife, Marianne, and his step-daughters, Lenore and Candy Jensen. These were the three owners of the three rifles. And the rifles were not mere window-dressing. With their owners, they added up

to what thousands of competitors at all of the better rifle matches have come to know as "the Michigan wrecking crew." Wherever they appear, hopes of victory dim in the hearts of most competitors, male and female alike. For these three are no respectors of age, gender, reputations, or records—and I do mean records. They shoot with the Masters.

Of course, this story would be less than accurate if it left you with the impression that Marv Driver had never had a rifle in his hands before that day at Perry. He was a sniper in World War I—though this has been a closely guarded secret until now. But pistols were his real love, and as a Detroit police officer and star for 20 years on the Detroit Police Pistol Team, he had little time for other





Smiling over high scores all three recorded in 1959 Championship Matches at Camp Perry, Mrs. Driver poses with daughters, then 14 and 18 years old.

kinds of shooting. But his three girls have given Mr. Pistol some new enthusiasms. Where he used to toe the firing lines for pistol trophies, he now watches them bring the trophies home with rifles.

The story of that transformation really begins around 1929, when a comely young miss, Marianne Deutschlander, came with her Lutheran minister father to the United States from Transylvania, once a part of Austria-Hungary. Marianne met commercial artist Max Jensen at a sports group dance, and they were married in 1936. Jensen was then one of the top 50 small-bore riflemen in the United

States, and he took his bride to countless tournaments where she was exposed to the fascination and comradeship of competitive marksmanship. The bug bit, and within two years Marianne set a national woman's record of her own in an individual any-sight match at 50 yards.

Two daughters blessed this union of shooting skills; and, from this point on, there are not enough superlatives in the most complete of dictionaries to describe the shooting successes achieved by this mother and her daughters.

The only sad note in the story is that Max Jensen did not live to see his

daughters win the most incredible array of rifle shooting championships in history. He died of a heart attack in May of 1952. But surely, in the life after this, his heart is warmed by their doings and by the support pistol shooter Marvin Driver has given his girls and their mother. The affection that all three rifle shooting beauties show for their new husband and stepfather is warm and unmistakable. And it explodes forever the myth of the incompatibility of rifle and pistol shooters, despite the amazement of the competitor at Camp Perry.

There are not enough pages in GUNS to list every individual and team shooting achievement of Marvin Driver, Marianne Driver, Lenore Jensen, and Candy Jensen. Marvin Driver's twenty-year captaincy of the fabulous Detroit Police Department team would suffice for one issue alone. As a hint of what has been and what is to come, let it be known that it takes the entire basement area of the Driver home in Allen Park, Michigan, just to contain the medals, trophies, plaques, and prizes, stacked in piles upon piles.

Ironically, the treasure trove of trophies would be larger yet, if rules did not require that, in many tournaments, mother and daughters must compete against each other for the same championships. Not one ounce or drop of envy can be detected, however, from this direct competition. Mrs. Marvin Driver and her daughters are each invariably delighted and proud when victory falls to any one of them, and gracious losers when it doesn't. They do, however, on the rare occasions of defeat, go home and devote some serious thought and extra practice to the proposition that it shouldn't happen again! That was Max Jensen's way and Marv Driver's way, and it is theirs.

An amusing tale is told concerning this blend of regal bearing and royal shooting ability in Marianne Driver. After Max Jensen's death, while she was employed by Standard Oil Company in Ohio, a story relating her remarkable accomplishments with the rifle appeared in the company magazine "The Sohian." One of her fellow employees read the story and, on meeting Marianne, said gravely, "Here you are a rifle shooter—and I always thought you were such a lady."

Lenore and Candy, too, confound any remaining few who do not associate shooting with ladylike demeanor. Lenore was a (Continued on page 60)



No jealousy here, even though sisters often compete against one another, and sometimes with their mother also. Driver home is filled with trophies.





# LAST SHOT AT BULL RUN

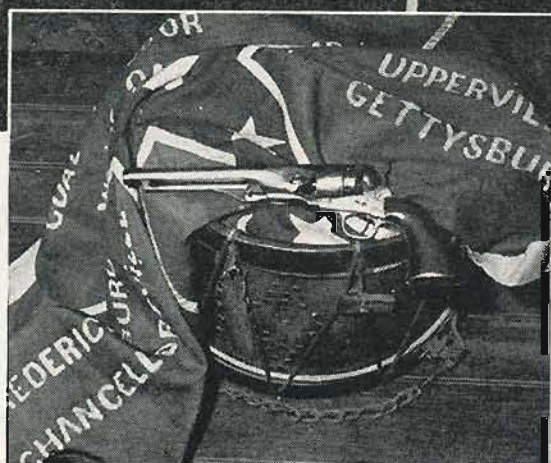
By J. S. WAMSLEY

**T**HE ARMY of Northern Virginia had surrendered at Appomattox Court House two days before, but the news hadn't reached two companies of John S. Mosby's Confederate cavalry in the field near Manassas. It was noon on April 11, 1865, and the war-worn Rebel raiders were crossing the old Manassas battlefield, where mighty armies had reddened the pleasant fields with blood in '61 and '62. All was quiet as the two Confederate companies rode up to Bull Run, swollen by recent rains.

Suddenly the air erupted with a staccato roar. Blue-coated riders of the Eighth Illinois Cavalry Regiment had spotted the Rebels and



Picture at right shows unidentified members of Mosby's Rangers. Lt. Wiltshire's Colt lies across braided sleeves of CSA jacket.



Lt. Wiltshire's three-screw 1860 Army Colt is kept in Confederate Museum in Richmond.

opened up with a murderous burst of carbine and pistol fire. The Southerners plunged their horses into the stream and, by the time the Yanks reached its bank, all but three had found safety on the other side.

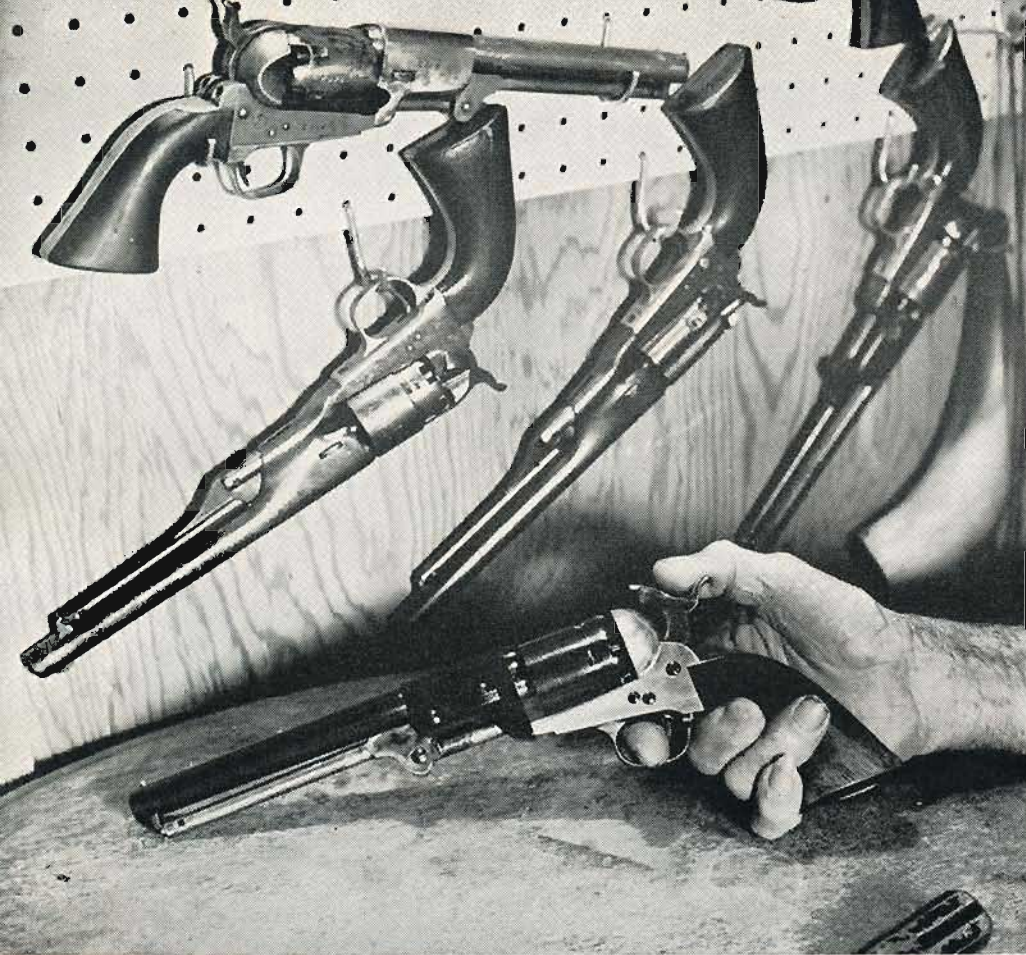
Two of the remaining Confederates, Lieutenants J. G. Wiltshire and Frank Carter, had been covering the column's rear and so were the last to cross. The other man, Private Howard Kerfoot, was having trouble with his horse and was in danger of being thrown off and drowned in the surging stream.

"Carter and I wheeled and (Continued on page 43)



# HOW TO CLEAN AND LOAD Muzzle Loading Revolvers

By WILLIAM B. EDWARDS



To clean or load a replica muzzle loader, follow instructions sent out by Col. Colt with originals. First step is to set hammer at half-cock.



To remove barrel, the key or wedge is driven out as far as screw permits (see photo at left). Barrel is then forced off by levering rammer against one of the chamber walls (below, left). Remove cylinder as shown below. Wash parts in warm water, dry, oil, and assemble in reverse order.



**Y**OU NEED to add up a number of factors to account for the current popularity of black-powder guns—rifles, muskets, and pistols, on the target range and in the hunting field.

Many of the guns are accurate, as is frequently proved when some modernly buckskin-clad D. Boone cuts the notch charcoaled on a pine shingle, or when some 1962 Mountain Man circles his group with a "string" so short that you wouldn't believe it unless you saw it. But accuracy alone does not explain the way increasing numbers of people feel about these guns.

Along with the results and the fun of the shooting, today's muzzle-loader addict gets, from the spoonful-by-spoonful consumption of a canister of FFFg black powder, a better understanding of history and of the pioneers who made it. Call it "Mr. Mitty-ism" if you will, but there's a sentiment about it that adds to the fun.

But today's shooter finds that the very number of his comrades limits his use of the *old* guns. There just aren't enough to go around. Most of the old-timers are eagerly snapped up by high-paying collectors; and, anyway, it is almost criminal (sentiment again) to wear out a genuine relic with fun shooting. In a typical Sunday after-



noon target shoot, a gun may get more use than it got through its entire participation in the Civil War. Parts brittle with age may break, thus wrecking both its cash and sentimental value. Hence the modern interest in replica guns—new guns on the old patterns.

Most popular caliber in the old days, when a fine Remington or Starr cost just \$1.65 from Bannerman's, is the .44 revolver of Civil War type. Copies of both Remington and the popular Model 1860 Colt .44 are available. The Colt-type "Centennial" .44 is a close facsimile of Colt's own, though there are minor detail differences that clue the knowing collector in to the fact it is a replica. Most obvious, of course,

are the barrel marks, "NEW MODEL ARMY 1960," and the Belgian proof marks, for this gun is crafted in Liege by the great grandson of one of Sam Colt's own licensed contractors of the 1850s. Inside are other differences. The bore, which is tight and takes Lyman's No. 451 round ball, is rifled with a constant right-hand twist, seven grooves, but unlike the Colt gain-twist rifling that is straight for at least 50 per cent near the breech.

Using such a revolver is not more complicated than ordinary hand-loading, and is often done with less attention to details than cartridge reloading. First, take up the pistol and set the lock at half-cock. This permits the

cylinder to turn freely. Place a percussion cap on each nipple. The best caps in all makes are said to be the No. 11s. Either these or No. 12s work on the Centennial .44s. Alcan makes some pretty good caps, but among the best we have tried are Belgian caps from Centennial Arms. Winchester used to make Staynless caps—good to a point, but we preferred the old Remington caps, even though they were corrosive. Both U.S. makers have discontinued making percussion caps in spite of their superior quality, so the shooter must turn to foreign caps now.

By then cocking the pistol all the way and snapping the six caps in succession, (*Continued on page 44*)



Explode a cap on each nipple to burn off oil and dust. Then draw hammer back to half-cock so cylinder is free.



Next, place charge of powder in each chamber, leaving room for the ball. Some cover with wad; others do not.



Place ball; then force ball down with rammer enough to let cylinder rotate freely. Repeat until all chambers are filled. Finally, place percussion caps on nipples.





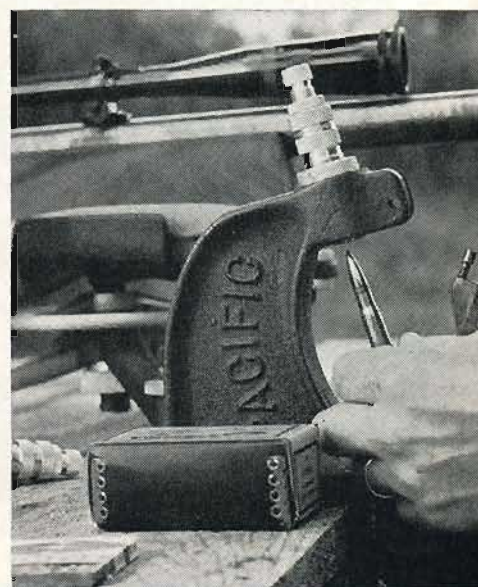


Big .30-30 bull gun is built on standard Marlin action, with heavy barrel.

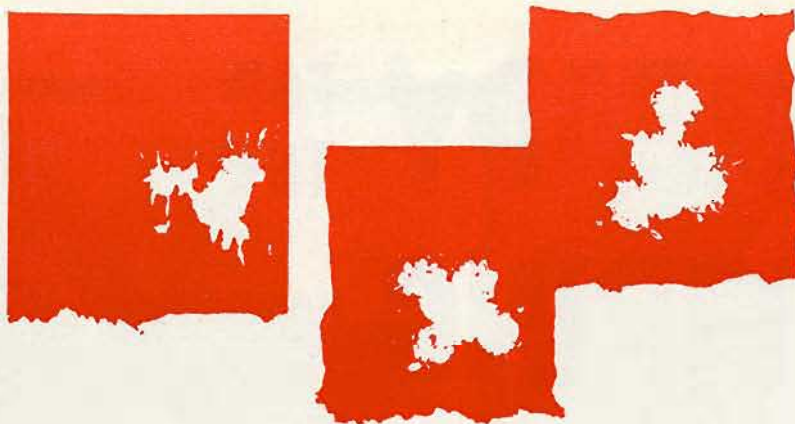
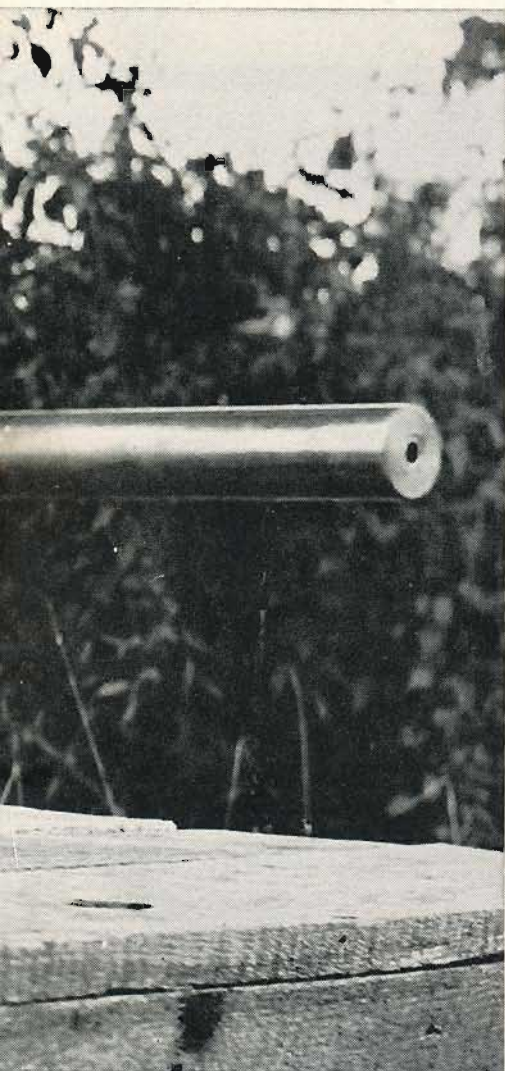
**HERE IS SOME LIGHT ON WHY THE .30-30 LEVER ACTIONS HAVE OUT-SOLD  
OTHER RIFLES. THE RESULTS MAY SURPRISE YOU**



Loading on testing bench (above) saves time. A Sierra 168 grain boat-tail match bullet (left) is shown with a Remington factory load and one of author's handloads. At right, the 168 grain Sierra International bullet is seated in case.







Groups like these would please any rifleman, regardless of the make, caliber, or type of action used. Five shot 100 yd. groups measure .375", .473", and .504", averaging less than 1/2 minute.

# DON'T SELL THE .30-30 SHORT

By BOB WALLACK

**M**ORE HAS BEEN SAID and written about the .30-30 lever actions than about any other caliber group, and this is not strange considering their longevity and the number of people who own them. What always surprises me is that most of the tales told about them, good or bad, are false. Those tales range from the one recently quoted in this magazine—"She shoots flat out to about 400 yards, and beyond that the bullets rise a bit"—down to the comments of the know-it-all modern who calls the .30-30 "a pipsqueak."

They tell you, too, that the .30-30 cartridges are inaccurate; and they tell you that, even if the cartridges were good, the lever action rifle just won't produce accuracy. Remembering some of the shooting I've seen with lever action .30-30s, I doubted this conclusion and set out to prove or disprove it.

The .30-30 cartridge was produced by necking down the older .32-40 case, and blowing out the body. It was used first in single-shot rifles. The Winchester Model 94 was the first sporting repeater to be chambered for it, with Marlin and Savage lever actions following soon after. It was the first sporting cartridge to use smokeless powder, and it was pretty powerful for its time. That accounts for its popularity *then*. But if it is such a lousy load, why is it that more than 25 per cent of all centerfire rifle ammuni-

tion sold today, more than twice that sold in any other single caliber—is .30-30?

Such tremendous popularity must have a reason. After all, there are many "better" cartridges. Take the .30-06 for example. Sporting rifles have been made for it since about 1906. It too has enjoyed wide popularity, but nothing like the old .30-30. Many newer cartridges are faster, more powerful, more versatile than either the '06 or the .30-30, but none is nearly as popular. Why?

I don't know why. But I was determined to find out just how good (or bad) the ancient .30-30 really was . . . and in a lever action rifle. Tests were set up for accuracy shooting as follows: first, a standard factory rifle was to be obtained and tested with factory loaded ammunition from bench rest at 100 yards. In order to reduce aiming error, a 4X scope would be used. Second, a "bull gun" should be made up as a special bench rest rifle but using the same make action with no changes and nothing "special" added. The bull gun would be identical with the factory rifle from the action to the butt, but would have a heavy barrel and correspondingly heavy forearm. Since the bull barrel would have the same rifling as the factory sporter, the only real difference in the two rifles would be weight—a ten pound difference!

Once the tests had been figured (*Continued on page 42*)



# READY FOR THE FIRING LINE

By BOB TREMAINE



Spring-loaded lock plunger holds bushing collar tight, prevents shooting loose. Right, the take-down is completed with help of a special wrench.

**T**ARGET-PUNCHING pistol shooters all over the nation will have a new .38 caliber automatic to fire this season—the new Smith & Wesson Model 52, or as the factory calls it, the 38 Master.

Based on the action and design of the S&W Model 39, the 9 mm double action automatic, the Model 52 is designed for one and only one purpose: target shooting. From exhaustive tests given this gun, I can state that it looks to me, and other shooters who had the opportunity to fire the new gun, as if Smith & Wesson have a winner. This is a sweet looking, sweet feeling, sweet shooting pistol.

Although the angle of the Model 52 stock is identical

to that of the Model 39 (20° except for the very slight differences caused by hand finishing), the M52 seems to hold and point more naturally. The gun can be converted to double action shooting by simply turning down the double action cutout screw. A feature of real value for practice is that, by putting the safety on or down, the gun can be dry-fired without wear on the firing pin. A bar shields the pin from hammer impact, and the pin itself is locked against inertia firing. The barrel is of the recoiling type, and the specially designed barrel lockup is positive and tight, assuring proper realignment of the barrel after every shot. The slide locks and re-





Stripping, re-assembly of M52 is simple. Remove magazine, move slide rearward until slide stop can be pushed out from right to left. Note that barrel bushing ring must set into the half-circular notch (indicated by arrow, right) in assembling.

## **SUPERB ACCURACY AND SMOOTH FUNCTIONING ARE BUILT INTO THIS .38 MATCH AUTO—SMITH AND WESSON'S MODEL 52**

mains open automatically after the last shot has been fired.

In shooting better than 300 rounds of Norma factory loads and special wad-cutter handloads, there were no malfunctions, no failures to feed or extract. Each gun is fired from machine rest at 50 yards before being shipped and must be capable of shooting 10-ring or better groups with factory loads. Shooting over an improvised rest in almost zero weather, and later on an indoor range, verified this. The accuracy of the gun tested was exceptionally good. Technicians at S&W rightly claim that accuracy is built into the Model 52, and that expensive customizing by the shooter is unnecessary. Extensive tests by myself and several crack pistol shots verified this to a very large extent.

Five-shot groups produced by the test gun were excellent, and improved markedly when the shooter had the opportunity to fire several strings. Typical was the case of one man whose first three groups averaged 3 inches, and who later fired over the course and produced a low Master score. Comments from shooters who fired the gun went from the awed to the profane, and the general consensus of these hard-nosed target shooters was: "Wow, what a gun!"

The gun is chambered for the .38 S&W mid-range wad-cutter with flush-seated bullets only. The magazine holds five rounds. Barrel length of the Model 52 is 5 inches; over-all length is  $8\frac{5}{8}$  inches. (Continued on page 51)



Gun was also put through paces by Lee Schultz of the H. H. Harris Co., largest mid-west distributor of S&W.





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- 7.65 MM (.30) Caliber!
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- Bayonets with Scabbard only \$2.45!

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### SPANISH M93 MAUSER LONG RIFLE

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Cal. 6.5 Italian

### ITALIAN TERNI M91 MANNLICHER!

These rifles you see advertised elsewhere at exorbitant prices under different names! Why pay a cent more? Take advantage of this at least fair specimen at an "all heart" price! Not the absolute best Mannlicher but surely good as some of those OTHER Mannlichers!

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Cal. 6.5 Italian

### ITALIAN 70VV SNIPER RIFLE!

Garibaldi's greatest, the rifle that still influences weapon design. In at least fair condition at practically no cost whatsoever. Mesmerize yourself endlessly with its spaghetti-strained stock and its unflinching justification as a weapon. Built to last a lifetime.

Complete!  
**\$995!**

Cal. 7.62 Russian

### RUSSIAN MODEL 91/30!

Stupendous! The 1906 Olympic Biathlon Masterpiece—the rifle that won five out of the first six places during the Winter Olympics at Squaw Valley. Fair to good condition. A few select ones at only \$3.00 more.

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Cal. 8MM Lebel

### FRENCH M1916 MANNLICHER!

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9MM LUGER (NEW, NON-CORROSIVE)	\$6.00
9MM STEYR PISTOL (M.C.)	\$4.00
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RIFLE CARTRIDGES	
6.5MM ITALIAN IN CLIPS (M.C.)	\$5.00
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7.35 ITALIAN IN CLIPS (M.C.)	\$12.00
7.62 NATO (.308 Win.) M.C. NON-COR.	\$5.00
7.62 RUSSIAN (M.C.)	\$5.00
7.62 RUSSIAN SHORT (20 rds.)	\$4.95
7.62MM RUSSIAN (M.C.)	\$6.00
7.65MM (.30) MAUSER (M.C.)	\$6.00
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.30-06 U.S. M2 BALL (NON-COR.)	\$6.00
.30-06 BLANKS	\$4.00
(Those few with asterisk (*) above are partially shootable but fully componentable.)	
SOFT POINT CARTRIDGES	
30-40 KRAIG (M.C.)	\$5.00
.303 BRITISH MILITARY	\$7.50
.303 BRITISH BLANKS	\$4.00
8MM GERMAN MAUSER ISSUE	\$6.00
8MM LEBEL (M.C.)	\$10.00
8x56 R MANNLICHER	\$4.00
.42 COLT BERDAN RIFLE (M.C.)	\$5.00
.3 (11MM) REMINGTON (M.C.)	\$5.00
11MM MANNLICHER (M.C.)	\$5.00
20MM LANTY A.P. (10 rds.)	\$9.95
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SOFT POINT CARTRIDGES	
6.5 ITALIAN SOFT POINT (20 rds.)	\$3.45
6.5 SWEDISH SOFT POINT (40 rds.)	\$5.45
7MM MAUSER SOFT POINT (20 rds.)	\$5.45
7.35 ITALIAN SOFT POINT (20 rds.)	\$3.45
7.5 SWISS SOFT POINT (20 rds.)	\$6.65
7.62 RUSSIAN SOFT POINT (45 rds.)	\$4.45
7.65 MAUSER SOFT POINT (20 rds.)	\$3.45
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8MM MAUSER SOFT POINT (40 rds.)	\$5.95

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Cal. 7MM  
(Ammo in Stock)

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**\$2495!**

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(Ammo in Stock)

One of the most expensive Mausers ever made. Manufactured in Germany during the period when craftsmanship was a mark of production. The special model with the late turned down bolt handle and the smoothest of the smooth. Special for you who insist only on the fine conventional M95 with all the great conventional features, and in good or better condition. Used slings and one and one-half German Bayonets with Scabbards \$1.95! The perfect rifle to easily sportsize!

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**\$2295!**

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Cal. 8MM  
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WHAT A FIND! The ultimate, ultimate, ultimate Mauser 98 Carbine at an unprecedented low price. The strongest, yet trimmest carbine ever available—fore-runner of VZ33 and almost identical to the famed G33/40 Mauser. In top shooting shape and in good or better condition, complete with PERSIAN SUN LION CREST AND 18 1/2" BARREL. S O M E BRAND NEW IN ORIGINAL FACTORY CONDITION ONLY \$15.00! ADDITIONAL AN INCREDIBLE OPPORTUNITY! Bayonets with scabbards \$3.95!

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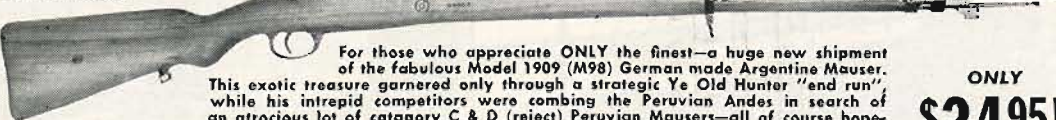
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Ready your bench first. Cases should be carefully sized and primed, scales zeroed, powder measure set, bullets miked and weighed. Then re-check manual to be sure you're right.

# R

## ELOADING IS EASY... PART II

By WILLIAM SCHUMAKER



To determine bullet seating depth, turn the seating screw to give partial seating. Then turn the seating screw down until press stroke seats bullet to depth to match hand-held factory or tested load. Lock die.



Hornady 150-grain round-nose .270 bullet is measured against case to show that base will be even with case neck when seated to crimp groove. Note finished round in shell-holder.



## RELOADING PAYS OFF IN ECONOMY, ACCURACY, AND MORE

### SHOOTING. DON'T RISK "MAX" LOADS THAT ARE OFTEN LESS EFFICIENT

**H**ANDLOADING'S original purpose was economy and better accuracy, enabling us to do more shooting for greater enjoyment. The "souping 'em up" craze is often a trouble maker, not only for the beginner, but also for advanced handloaders who get carried away.

Many factory loadings, such as the .270, are already "right up there." To attempt ballistic improvement on them is pure folly. It can be done to some extent, with some rifles, but in general, it should be avoided, especially at the beginning.

Loading manuals list maximum loads and suggested loads with a variety of powders. But just because a powder is listed in the book, does not mean it is the best one for the job at hand. Sometimes beginners and others insist on trying to load to a velocity listing. Due to wide variations in barrel lengths, chambers, throats, and other mechanical factors, they are actually not getting these listed velocities. Only chronographing that particular rifle and load will tell the true velocity.

They also read the top line of a list of loads, when they should start with the bottom one, or at least the middle one. In the Speer handloading manual, the bottom load is usually an excellent one to start with, and it won't hurt to reduce this 5 per cent for the first try.

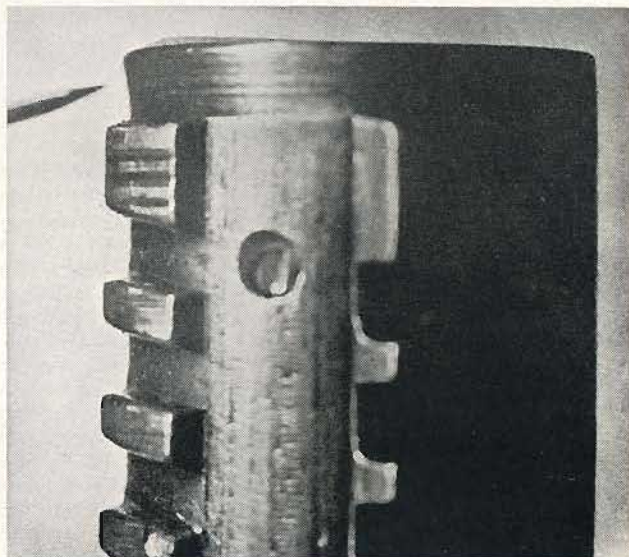
An easy way for a beginner to keep out of trouble is to purchase his equipment from a gunsmith or component dealer who is an experienced handloader. By experienced, I do not mean a chap who loads a few boxes a year of one or two calibers. A gunsmith-component dealer is usually glad to take a few hours after work and demonstrate exactly how to do everything, and why. If you do not understand, ask questions. This free time given you is worth more than any infinitesimal saving you might make elsewhere. In the meantime, read, study, and learn as much as possible.

I start new handloaders with the slowest burning powders in accepted use, which still give average ballistics. It takes a few grains more of these powders, but pressures run a little lower, and they are safer. For example, 4831 will, in most instances, harm nothing when a case-full is used. Cartridges to which this powder is adapted are often loaded nearly full or even compressed. It is a powder that should never be used for reduced mild loads. When using it, little or no air space in the case should be permitted.

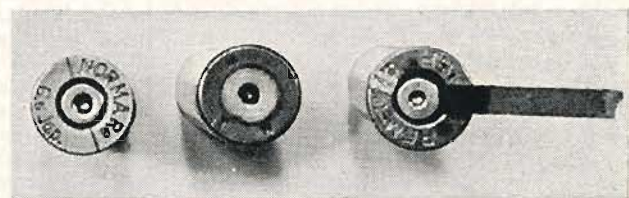
Let us take a look at the Speer manual for 150 grain bullet .270 loads. Since we are *not* going to use top (maximum) loads of any powder, we will view them for knowledge-gaining reasons only. Out of eight powders listed, greatest velocity on the maximum listing comes under powder number 4831. Now look at the bottom loads of the entire chart, and note which powder gives the best performance. Again, 4831 is in the lead. Obviously you couldn't go wrong by choosing this powder.

There are several other good powders listed, such as 4350, 4320, and 4064. But you should observe that less grains of these constitute maximum loads, as well as suggested loads. The charts show a definite pattern, are easy to read and understand. There is no need for glaring errors.

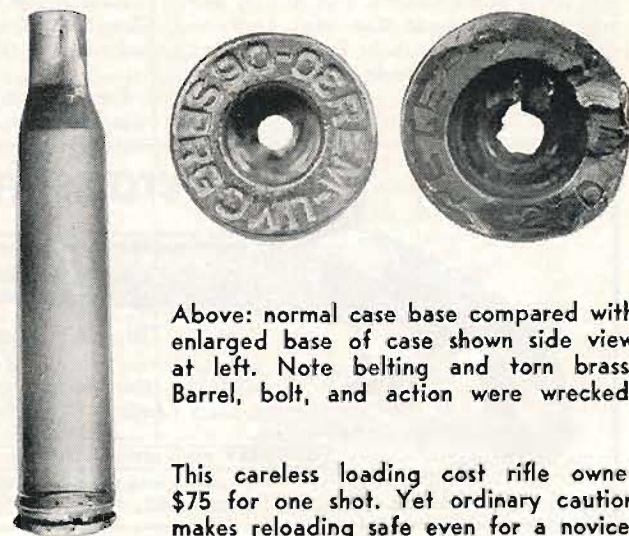
So let's use 55 grains of 4831 and a 150 grain bullet for those cases we left in the loading (*Continued on page 53*)



Pointer indicates badly flared bolt shroud, caused by dangerous over-load in case shown below. Rifles seldom withstand charges beyond what blow cases so don't crowd your luck with loads that are too hot.



Shown left is normal fired case base. Center .30-06 case base shows badly flattened primer due to heavy pressure caused by normal load in brass necked down for .270. A normal primer in enlarged primer pocket leaves room for a paper match, as shown at right.



Above: normal case base compared with enlarged base of case shown side view at left. Note belting and torn brass. Barrel, bolt, and action were wrecked.

This careless loading cost rifle owner \$75 for one shot. Yet ordinary caution makes reloading safe even for a novice.





# Pull!

BY DICK MILLER

**"PULL!"** nominates Edgar Kuhlenschmidt of Evansville, Indiana, for both the come-back and bright shooting star awards of early 1962.

Edgar walked off with everything but the clubhouse in the 1962 Daytona Beach Baby Grand, in the trapshooting "grapefruit league" of Florida Chain shoots. He won four first places, including two 100-target handicap events, and two 16-yard events, one a hundred target race and the other a 200-bird wind-blown program.

His total loot for the sojourn in Daytona Beach exceeded \$800, six trophies, and an imported shotgun. But, his shooting loyalty still goes to a battered domestic pump, vintage 1926, through which at least 100,000 hulls must have passed. He sold the glamorous imported over-and-under, and is sticking with "Old Betsy."

Speaking of "Old Betsy," the gun is related to my nomination of Edgar Kuhlenschmidt for a come-back award. Way back in 1949, I was present at a registered trapshoot at the Westhaven Gun Club in Evansville, Indiana, when a young farmer walked up with an old pump gun, and entered his first registered shoot. The boy and his old gun were known as tough competitors on the "meat circuit," but both were completely new to registered competition.

When the shoot was over, the boy and his gun had won, but it was learned that he had used shells heavier than regulation trap loads. Club officials were confident that the error was an honest one, but disqualified him for the shoot. That embarrassing experience drove the young man from registered competition for a period of eleven years, until 1960.

That boy was Edgar Kuhlenschmidt, now a successful farm equipment merchant, and still tough with a shotgun, even if using only regulation trap loads. You can't keep 'em down on the farm, or in the Farmer's Market, when they are bitten by the trapshooting fever.

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I don't have the complete results of the New Mexico state trapshoot at Albuquerque, but by courtesy of Pardner Tellyer, who is proud of his local shooters, and the area newspaper clips (thoughtfully sent by Pardner Tellyer) the world is informed that three Las Cruces shooters brought home state championships.

Tough little junior Dan Griggs, member of the 1961 All-American team, won his third junior title in as many years. John Van Noy was hot every day and in every event for the all-around trophy with 761. Joe Peckum, who has been shooting only about a year, grabbed the AA trophy for a near-perfect 99 in 16-yard class events.

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From sunshine in Florida and New Mexico, we switch to 15-degree weather, a foot of snow, and icy roads leading to the Whiting Gun Club (Indiana) for the club's first registered event in 1962.

The elements didn't scare seven squads of sixteen-yard hopefuls, reports Elmer Bernard in the Hammond "Times." Charles McClelland of Whiting warmed up long enough to break 98x100 targets for the Class A trophy. Class B went to John Kuelper of South Chicago, with a 91. Herb Hutchins of Griffith was just one target shy of the Class B pace, his 90 winning Class C. Class D shooter Gil Dickman from South Holland, Illinois, won his class with a 92.

George Hancher of Calumet City was tops in the 18-19 yard handicap division. Neil Johnson came over from Chicago to win the 20-21 yard handicap division, and Richard More of the host club was high in the long-yardage group.

Bernie Kalapach from Highland, Indiana, one of the 1961 Grand's handicap stars, was too tough in the 50-target doubles race.

Although he won first in only one event, Class D 16-yard, Gil Dickman was consistent, and captured the High-Over-All trophy.

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Even the travel writers, who are a very select and elite group, as distinguished from

outdoor and firearms writers, are getting in the clay target act.

A column by the Chicago "Sun-Times" columnist Wade Franklin, datelined West End, Grand Bahama Island, describes a skeet match between Franklin and Galen Spencer of Denver. According to the Franklin story, the pair broke 28 out of 50 in two events. In the first event, Spencer broke 24 and Franklin broke 4. In the second event, Spencer went straight, and Franklin slumped to a three.

The story goes on to point out that skeet is one of 47 things to do at Grand Bahama Hotel, a beautifully equipped resort 50 air miles East of Palm Beach.

I gather that Wade Franklin may have found some of the 46 other recreational activities more to his taste, but at least he has been exposed to clay target gunning, and, who knows? This can be a permanent disease. And, scores notwithstanding, the account of the gala Spencer-Franklin skeet match (for low stakes, I presume) got more space than any of the other 46 recreational offerings.

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Since this month's column touches on extremes of weather for clay target shooting, it would not be complete without a mention of a day's shooting I enjoyed during February at the Ludlow Fish & Game Club, in Ludlow, Massachusetts.

To begin, this club must surely contain the highest concentration of sub-small bore skeet shooters in any skeet club on this continent. I have never seen so many 410 skeet guns outside of an arms factory warehouse. And these guns were not just for bragging purposes. The men (and women) who call the Ludlow club their shooting home, shoot 410 guns, with short shells yet, and they shoot them in all kinds of weather, including snowstorms. Show me a club that records 80 rounds of skeet, mostly 410 short shell, in a snowstorm, and I'll take back my accolade for the Ludlow Fish & Game Club. The boys who deliver Uncle Sammy's mail through soup, sun, etc., have nothing on the shooters from this club.

I felt almost conspicuous shooting one round of skeet with a great big 12-gauge, but considering my later scores (in a driving snow) with short 410 shells, it was well to establish that I knew something about breaking skeet targets, and that I could have been a mite rusty with the little tubes, after my years of trap targets.

What day did I visit the Ludlow Fish & Game Club? I have asked the editors of GUNS to set the following line in the smallest type possible. If you can read it, it says that I was there the day Catherine O'Connor beat Bill O'Connor by one target. If Bill O'Connor reads it, I hope that my many (I hope) friends around the country will be thinking of new job opportunities for the bright (?), young (?), energetic (?) conductor of this column.

Please think of my oldest son, who was there enjoying the skeet shooting with me, and of my dear wife and youngest son, who were home at the time, but who would have been there grinding up targets (with 410 guns, of course) if school authorities and home budgets would have permitted. Anyway, shooting at Ludlow is fun, and they are a great and fine bunch of dedicated shooters 52 weeks of any year.



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## WHY ARE GI'S BUM SHOTS?

(Continued from page 18)

painstakingly scrutinized, and the marksmanship programs of the United Kingdom, France, and Canada were studied.

The questionnaires, when they filtered back, showed that a surprisingly large number of field commanders wanted to keep the old KD (known distance) ranges and the long-familiar bullseye targets. Some others wanted to combine the new Trainfire with the old conventional courses; and a smaller number said they would be happy to chuck all the old methods and go whole-hog for the new.

The board elected to play along with Trainfire. It did strongly emphasize that there should be a lot more time devoted to teaching sight alignment, the firing positions, trigger control, rapid fire, and speedy re-loading.

Because so many of our military posts do not have Trainfire ranges, the committee put forward an alternate course of fire which could be shot on the old ranges but would be strictly limited to man-shaped targets. The targets should be exposed for short periods of time, some singly, others in increments of twos and threes, and all of them partially camouflaged so that the trooper has to search out his mark before he lams away at it.

The committee was emphatic in its condemnation of the bullseye target. It was sad, they said, unrealistic, completely unacceptable from the combat training point of view. The board went on record as being unequivocally opposed to further use of the bullseye. The targets of the future must be the size and shape of the enemy.

While it took this attitude toward the venerable bull insofar as this target might affect the general marksmanship training, it did go on record as approving the present competitive match shooting. This shoulder-to-shoulder competition firing commences down at company level each year, and gradually works upward from the smallest units to include battle groups, thence to divisions, on to the posts, and finally to entire army areas.

During June, the all-Army championships are slugged out at Fort Benning. The shooting is a sort of gigantic elimination during which the army discovers its very best marksmen. These buckos, once selected, are moved as teams on to the National Matches. There, during these past two years, they have cleaned up, both team-wise and as individuals. The committee wisely kept hands off here, had nothing but praise for this shooting.

The board pondered whether a return to the use of .22 rifle would help shape up its run-of-mill riflemen. The Marines were queried about this, and they said they'd tried the .22 and it did not help. The British admitted, when also sounded out, that they used the 'two-two' but had reservations about its worth. The board turned thumbs down; did, however, opine that it might have some small value for match shooting between local (battle group) units.

The committee opposed any 500 yard firing. The Army Advanced Marksmanship Unit (AMU), Ft. Benning, upon the insistence of the board, ran a long series of tests firing from the accuracy cradle (machine rest) with the new M-14 rifle and with the older M-1, and found that neither

had sufficient accuracy to keep all its shots on the silhouette of a man at 500 yards. It was recommended that practice be limited to not more than 350 meters hereafter. Finally, the committee opposed the use of the rifle sling from any firing position. The sling should be retained, but only as a carry-strap.

There is a stepped-up production of the M-14 rifle these days, but no one predicts when that output will attain such quantities as to see the older M-1 completely replaced. This is some time in the future. Right now, the army must depend on the older weapon. Production of this gun was halted directly after the Korean war, and as a matter of fact most of these M-1 rifles in the hands of our troops today are from 17-20 years of age. These muskets have passed through the hands of literally hundreds of indifferent owners, have been fired thousands upon thousands of shots, a great deal of the rounds steel-jacketed armor-piercing. The accuracy, quite needlessly to say, is stinko. You have a situation, therefore, where you hand a venerable shooting iron with a thoroughly shot-out barrel to a recruit with precious little if any interest in marksmanship. The net result is some mediocre scoring indeed.

The military has a passion for collecting statistics. Unfortunately, this penchant has never extended to asking the recruit if he has ever owned a firearm. It is vital to the problem. A boy who grows to manhood without ever having owned some manner of sporting weapon cannot be expected to display much enthusiasm for the military hardware when a musket is suddenly thrust into his hands and he is told to make like an expert with it. It's sort of like handing a man a harpoon and telling him to go fetch in a whale. Shooting irons and harpoons take some check-by-jowl living before a feller handles either with much real savvy.

The M-1 rifle was adopted in 1936. At that time, the average soldier stood 5'6 $\frac{1}{4}$ " in height and weighed 146 lbs. Presumably, the length of stock of the M-1 was designed to fit this average trooper. Today, the average inductee stands 5'8 $\frac{3}{4}$ " and weighs 154.6 lbs. Despite the fact that today's soldier is a bigger man, the M-14 stock has exactly the same dimensions as its predecessor. This length is 13 inches. The average stock on the commercial sporting rifle, made, if you will, for the very same inductee when he is in mufti, measures 13 $\frac{1}{2}$  inches. It may seem to the uninitiated that this is a minor detail. But try shooting a stock which is too short for you on a rifle which develops as much recoil as our standard service load, and you will quickly find out why it is important that the stock be somewhere close to a proper length!

We gave the Vietnamese, sturdy Indochinese allies of ours and presently waging a life or death struggle against the Commies, the M-1 rifle. This observer took a hundred of the Vietnamese infantry and fired them over a course, three times over with the standard M-1 and three times over with an M-1 with a stock which had been shortened. These little people average 5'1 $\frac{1}{2}$ " in height and weigh only 110 lbs. They shot better with the shopped-off stock. While the most

(Continued on page 41)

## the norma man tames the .308 magnum wildcat



"For more velocity, I've tried necking, fireforming and altering .30 caliber cases for years," he says, "but not any more. The brand new .308 Norma Magnum unprimed case is just what this handloader ordered ... and I'll bet a lot of others will feel the same way!"

Perhaps the Norma Man has a right to get excited. This new factory case makes magnumizing your .30 caliber rifles easy and inexpensive ... because it fits the standard length action, and is factory finished, ready for your loading tool.



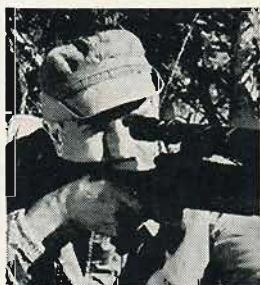
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# TRAIL AND TARGET

**"DOIN' WHAT** comes naturally" was never written for pistol shooters. I have frequently stated, so far without successful contradiction, that every dad-blasted thing you "do naturally" with a handgun is wrong; wrong, at least, from the standpoint of the target shooter who seeks real accuracy. Maybe there were (or are) some "natural born" gunmen in the realm of point-shooting, where a man-size target at bar-room ranges was the objective; but when you're seeking those hair-line differences that win or lose target matches, you'd better forget "natural" procedures.

This does not mean that pistol accuracy is beyond the reach of the average person; it isn't. There's no magic about it. A long-ago manual of pistol marksmanship issued by one of our Armed Forces included a Question-Answer section in which the Instructor was asked, "Is it difficult to shoot a pistol accurately?" The answer: "No. All you have to do is point the gun at the target and pull the trigger." Nobody can quarrel with the truth of that answer, but a lot of pistolmen would call it an understatement.

Any person with fair eyesight (natural or lense-corrected), with a usable set of physical appurtenances, and without an advanced nervous disorder, can attain accuracy with a pistol. Practice will do it. With enough practice, you can even do a number of things wrong and still score well. You probably do just that! But you can score better (not immediately, but eventually) if you do it right.

Everything anybody knows about shooting a handgun for accuracy can be divided into two categories: what is true, and what ain't! Plenty of what is told, and written, ain't! An exaggerated (but existant) myth-monger is the man who tells you that "you have to chop a pistol down on the target—to overcome the kick when the gun fires!" If you believe him, you may win a place as a cowboy actor in Hollywood, but you won't win any medals at Perry. You may not win any medals at Perry if you believe me, either; but you can have a lot of fun trying.

What's true about handgun shooting can be told under four headings: Position of the gun in the hand; position of the shooter; sighting; and trigger control. Let's take them in that order.

You say, "I know how to hold the gun. Let's skip that." Maybe you do; maybe you don't. Pick up an (empty) pistol with your left (or non-shooting) hand. (From now on, we'll assume you're right-handed and name hands accordingly.) Now, with your right elbow on your hip, raise your forearm to point upward at about a 45 degree angle, wrist straight, thumb and fingers extended to form a U with the web between fingers and thumb as its base.

With the left hand, set the gun firmly on the web between thumb and fingers, barrel

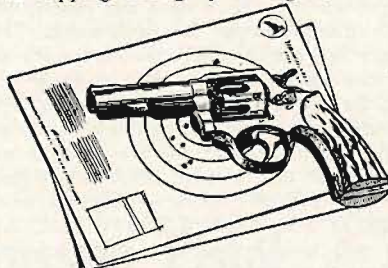
exactly aligned with the forearm, with the vertical (hammer to trigger-guard) plane of the gun exactly parallel to your palm.

Position the gun as low in the hand—that is, with the hand as high on the stock—as is possible without interference with the operation of the gun. On revolvers, the hand must be low enough to permit cocking; on automatics, low enough to prevent contact with the backlash of the slide on firing. But the higher your hand is on the stock, the more directly your forearm is lined up with the barrel, the better. Most handguns rock up and back in recoil because the barrel (and hence the direction of recoil) is above the resistance to recoil, which is the shooter's grip. High hold reduces this tendency, lessens gun movement, permits holding the front sight nearer to the target.

Leaving the thumb and trigger finger extended, close the other three fingers around the stock. Now bring the thumb in against the gun, not around the stock but against the side of the gun, alongside the hammer.

Now comes the tricky part. Pull the finger-tip back until the knuckle at the base of that finger is pushed away from, out of contact with, the gun. Keeping the pad in the palm and the base of the trigger finger away from the gun, curve the trigger finger in until the trigger crosses the center of the first joint of the finger. . . . Now firm your grip.

How tight should you grip it? Most top pistolmen say, "Grip it hard!" Asked how hard is hard, they'll say, "As hard as you can grip it without causing muscle tremor." If you're a top-flight pistolman, do as they tell you. If you're less than that, do as I tell you: grip it only as tightly as you would grip a wet (filled!) highball glass to keep it from slipping through your fingers.



Why am I disagreeing with the Masters? Because the Masters, in order to become Masters, have developed muscles you probably don't even know you have. They can grip a gun hard, without tremor. You start my way, and let the hard grip come later.

Look down at the top of your hand. There should be air (no contact) between the top (trigger finger) knuckle and the side of the gun. This is assuming that your gun is equipped with standard "stock" grips. Later, you may buy custom-fitted grips, and you may (though I don't think you should) fill in this gap with a bulge of wood.

The problem is exactly this: your trigger finger has to move. No other part or muscle or nerve in your hand should move as you fire, but your trigger finger must move to press the trigger back to set off the shot. Each joint in that finger is a hinge which can move in only one direction—to the left. Your pressure on the trigger must be, not to the left, but straight back. Must be, because pressure to the left will push the gun (and the shot) to the left. The finger can exert pressure straight back only by bending all its joints—including the one where the finger joins the palm. And even then, the pull needed to depress the trigger will cause movement in the base knuckle and movement in the muscle pad on its palm side. With contact, that movement will be transmitted, however minutely, to the gun. And if the gun moves, there goes your accuracy.

Practice this grip, and the grip alone, until this grip and no other feels right to you. The more you have shot with another grip, the more practice this will require. But it's worth-while practice. Yes, I know that there are Master pistolmen, even champions, who don't hold a gun in exactly this manner. Maybe you won't, after you become a Master. Pistol shooting is a highly individual thing, and once you are shooting Master (or even Expert) scores consistently, you are entitled to do it your own way. But there is nothing *wrong* with this grip. It won't hinder you, in any way; and it may help.

The thumb up alongside the side of the gun is another insurance against movement as you depress the trigger. Don't over-do it! Pressure of the thumb against the left side of the gun can throw your shot off to the right, just as pressure of the fingers or palm against the right side of the gun can throw your shot off to the left. The object of this high thumb position is a negative one—for prevention, not for cure. Using thumb pressure on the left side to offset finger or palm pressure on the right is merely an effort to correct one fault with another. Don't press the gun with the finger or palm, and you won't need to correct it with the thumb. The thumb position is to lessen your tendency to squeeze the stock as you exert pressure on the trigger.

Because, my friend, no matter what anybody tells you, a full-hand squeeze is *not* (repeat, *not*) the way to work a handgun trigger—not, at any rate, if pinwheel target accuracy is what you're after.

I can remember the widely used advice of instructors that trigger-squeeze means "squeezing with the whole hand, as if you were juicing a lemon." But, whether you take my word for it or insist on learning it the hard way, squeezing with the whole hand means moving (tensing) every muscle in the hand; and every muscle that moves, if it is in contact with the gun, will move the gun. And that's bad! There'll be more than enough movement when you level a handgun on a target, no matter how good you get. Increasing that movement is adding that much to your problem. Reducing movement is an end to be sought, at whatever cost.

And there are ways to reduce movement—by proper grip, proper stance, proper trigger manipulation, as well as by the development by practice of those muscles you never knew you had. Understanding the problem helps to solve it, and this will be the subject of more talk later.



(Continued from page 39)

of us find the military stock too short, these half-pint warriors found it distinctly on the lengthy side.

The Canadians made and issued three lengths of rifle stocks; a short, an average, and a long. The idea is a good one. Our army considered and abandoned the scheme. Why? We are exceedingly careful these days to see that the recruit's clothing fits him. We want him to look sharp, and it gives the new soldier a sense of pride to be turned out in a neat, well-fitting uniform. But when it comes to a rifle, he is tossed a gun which has a stock made for his father, a little guy, and we expect the son to make like an expert with it.

The army has artillery schools, tank schools, parachute schools, and schools in communications. It holds classes in driving, classes in baking, in typing, in cryptography, languages, explosives disposal, guerrilla warfare, and auto maintenance. But does the army have a school where it trains the soldier to be a marksmanship instructor? It does not. Every man in the army today is armed. All are expected to fight. But the training in marksmanship is not supported by an army-wide school anywhere.

Marksmanship is taught by NCOs who are supposed to know their stuff through long years of service. These veterans stand up before their troops and tell them how it wants to be done. Then the recruits are paired off, and one acts as the coach while the other practices as the firer. After some drill in this manner, the two switch jobs and one becomes the marksman while the other serves as coach. Maybe in theory this is all right, but observation indicates it is not so good.

In the first place, the sergeant-instructor all too often does not know his stuff. It is true that maybe he has a dozen years in the army, but he was never taught properly in the beginning. He was not bundled off to a school of marksmanship and thus given a solid grounding before he commenced to instruct others. All he knows is what he picked out of the manual plus his all too brief annual qualification firing. Too, the chances are awfully good that he has no real interest in shooting and, as a result, his instruction is prefatory indeed. His disinterest is soon apparent to his charges, and they promptly assume a similar don't-give-a-hang attitude.

Right here is where the lack of motivation plays such a critical part in the failure to make acceptable marksmen out of our recruit soldiers.

The army hands out marksmanship medals, expert, sharpshooter, and marksman awards. These, all too frequently, are not presented during a unit formation with all the formalities which are dear to the military heart. They are passed out by the company clerk, and the recipient dumps them in his foot locker and forgets 'em. No one gazes with any particular respect on the soldier who wears the expert qualification badge. As a result, the shooting award falls flat.

The records show that the last time the army really shot well was pre-WW2. That was in the halcyon days when the common dogface drew down the handsome sum of thirty bucks monthly and was paid a few additional dollars if he could qualify with the old Springfield. The soldier today laughs

at the little badges dished out for marksmanship. He would not, you may be sure, evince the same attitude if straight shooting was put on a paying basis. The army, today, has a proficiency pay system. Specialists who hold down key jobs are given extra pay. This incentive system should be expanded to include marksmanship. It worked before, and it would provide the incentive today to a sharpening up of the skill of our soldier marksman.

The next war will be a nuclear circus. So that we shall not present a profitable atomic target, our front-line units will be kept to two-bit size, will be highly mobile, flexible, and self-contained. It is visualized that these battle groups will be distantly separated, one from the other, and their flanks necessarily will be wide open. Formations will throw out a continuous patrol screen to all flanks, not only to maintain a round-the-clock contact with the enemy but also to stay in touch with sister units. Most of these patrols will be mechanized, but not all of them. There will be critical requirement for foot patrols, for Indian fighting tactics, guerrilla soires and ambush.

The enemy, you may be sure, will be every bit as aggressive, and his patrols quite as numerous as our own. Contact will generate sharp scrapping, and the rifle, contrary to a lot of erroneous thinking, is going to play an extremely important role. Far from being relegated to the sidelines simply because the big war is a nuclear one, the infantryman's primary weapon will be critically decisive. The laddy-o who packs that rifle had best be shaped up as a practical user, for his skill is tantamount to the winning!

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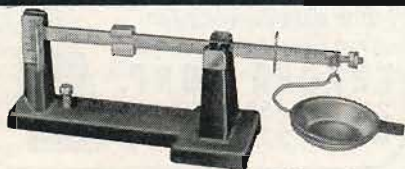


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## DON'T SELL THE .30-30 SHORT

(Continued from page 31)

out, I had a long talk with Tom Robinson, Director of Research & Development at Marlin. Why Marlin? Well, for a pretty obvious reason: I have an "in" there. As an advertising agency account executive, I help sell Marlin's. And, as any salesman should, I believe in the product I sell. If this admission (call it what you like) precludes your belief in my conclusions, so be it; but I will not "sail under false colors," and this is a test shooter's report, not an advertising blurb. That said, let's get down to the shooting.

The reasons why lever guns are not supposed to be much good for accuracy are that the breech block is locked at the rear, a two-piece firing pin is used, and a two-piece stock is also required. Bolt action rifles, which have the better accuracy reputation, have their locking lugs right behind the chamber, use one-piece firing pins and stocks. All things considered, the bolt ought to shoot rings around any lever action rifle.

I have long thought of myself as a "knowing shooter;" after all, I have been professionally associated with guns all my adult life. I had accepted the opinion that lever action rifles just weren't to be considered for target shooting, chiefly for the theoretical reasons just given. On the other hand, I had done enough shooting with old single shot rifles to know that they will deliver extremely fine accuracy, which would seem to prove that a two-piece stock might not be so much of a hindrance after all. It's also true that a rear locking system need not necessarily be a bar to accuracy, either. The Schultz & Larson, a fine imported bolt action rifle, has such a locking system, and it's very accurate. That left the two-piece firing pin as the only questionable factor... maybe it wasn't worth worrying about.

My talk with Tom Robinson convinced me that the Marlin 336 action... a modernized version of the famous 1893 design, with solid top receiver and side ejection developed by John Marlin... had very definite possibilities for super accuracy. The round bolt design, in spite of its rear locking, looked very much as though it would do the job, since it appears to be as stiff and rigid an action as any bolt rifle. But the biggest factor of all, as far as accuracy is concerned, Tom Robinson insisted, is the Micro-Groove rifling developed by Marlin in 1953.

Micro-Groove rifling is produced by forcing a carbide button through the reamed bore to produce the lands and grooves. The button is made with a reverse rifling; when it goes through the steel barrel it simply pushes the lands and grooves into place. Many advantages are claimed for button rifling; it can be produced faster, all barrels are remarkably uniform, surfaces are smoother and harder, barrel life is better, and so is accuracy. The Micro-Groove process differs from other button rifled barrels, but Marlin won't say how! That part is a jealously guarded secret. It is known however, that the Micro-Groove system uses many lands and grooves, 22 of each in a .30 caliber barrel... almost four times as many as in any conventional rifle barrel! Tom Robinson claims that this multi-grooved system of rifling gets a firmer grip on the bullet but, because the rifling is not as deep as con-

ventional rifling, produces considerably less deformation of the bullet.

A spinning bullet in flight is no different than a toy spinning on its point. We've all played with tops in our youth and we certainly can recall that a 10¢ top will spin merrily for a few moments and then begin to wobble. What isn't generally known is that a precision-made top can be made to spin for hours in the laboratory... because it's perfectly balanced! A toy top is unbalanced and, as it spins, its center of gravity is revolving around its axis because the top is heavier on one side.

When a bullet is not centered perfectly in the rifle barrel, it resembles the toy top in that its center of gravity is made to rotate around its true center. As soon as this bullet gets out of the bore, its tendency is to rotate around its center of gravity, just as the top does. And the result is the same too. The bullet will soon begin to wobble. Tom Robinson says, "Micro-Groove takes the imbalance out of bullets because it puts such a firm but gentle grip on the bullet that it's more perfectly centered in the bore."

I was fighting pretty formidable odds when I took the new 336 bull gun to the range. Using standard benchrest techniques and resting methods, the gun began to perk with the first target. My load was 31 1/2 grains 4895 powder, Sierra 168 grain International bullet, with CCI Magnum primers. The Sierra International is a boat-tailed target bullet which is exceptionally accurate.

The very first target fired with this rifle was a three shot group measuring only 3/16-inch at 100 yards. From this point on, the rifle averaged less than 1/2-inch groups at 100 yards. This is quite remarkable shooting, especially when you consider that the rifle is one of the "old" lever actions which has no business in any serious target shooting!

I had proved to myself that a standard lever action, fitted with a heavy barrel, was capable of extremely fine accuracy. As a matter of fact, I am of the opinion that if ten rifles were made up like this .30-30 bull gun and shot against ten .30-30 rifles made on modern bolt actions, the lever guns would average as well or very nearly as well as the bolts.

But my surprises weren't over. Another real shocker came when I fired the standard .30-30 carbine... a Marlin Model 336 T with 20-inch barrel and 4X Marlin scope. I know the gun wasn't selected, because I was there when it was taken from the factory warehouse. It was handed to me right in the sealed box. All I did to the gun was to push the grease out of the barrel and attach the scope. This little rifle was fired with factory-loaded ammunition... not handloads. At 100 yards from a benchrest this short carbine fired 5-shot groups measuring one inch or less!

The shooting reported here proved several things—to me, at least. It proved that a lever action carbine is a lot more accurate than I'd ever dreamed possible. It proved that a basic lever action rifle will shoot on a par with a bolt action. And it convinced me that it's not time yet to write off the ancient .30-30. It's still a mighty fine cartridge... especially in an accurate rifle.



(Continued from page 27)



delivered our pistols into their faces," Wiltshire said later of the Yankee assault, "thus allowing the men to pass over under cover of our fire in safety." They controlled Kerfoot's horse, which then scrambled with its rider to the stream's far bank. Wiltshire delivered a parting shot at the enemy, and then he and Carter joined the others in the safety of Bull Run's south bank.

"We retired from the scene of conflict and 'our friends the enemy' to their camp. Here a kind and merciful Providence let fall the curtain over the last act of the army of Northern Virginia in the War Between the States."

Wiltshire's gun, now in the Confederate Museum in Richmond, is a standard three-screw Colt 1860 Army Revolver. It is in very good condition, but shows the hard use given all weapons in the gun-poor Confederate Army. Its barrel is worn thin at the muzzle by long holster friction.

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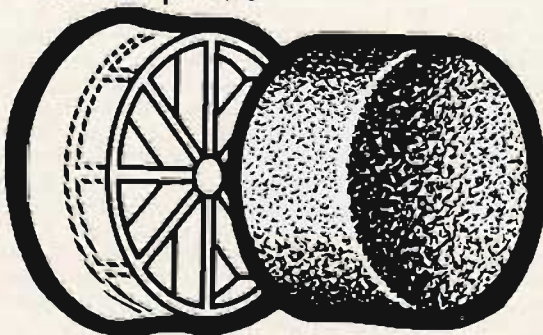
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## CARE OF MUZZLE LOADING REVOLVERS

(Continued from page 29)

any oil remaining in the chambers from prior cleaning is burned out. If yours is a new gun, even after having wiped out the grease and snapped a round of caps, do it again, to make sure. The slightest spot of oil in the chamber will "kill" the powder, and removing a dud charge is not too simple.

Then, using a powder flask graduated for the proper charge, throw a charge into each of the chambers, with the lock again set on half cock so you can turn the cylinder freely. Hold the pistol upright so powder doesn't spill out.

Grease wads can be used next, though they are not essential. The Ipco colloidal wad is a good preventive against excess fouling. You can also take an old felt hat, soak it well in bullet lubricant, and punch out wads, using a deprimed .45 automatic case, or a .30-06 case cut off short and sharpened. After you have picked up three or four wads in the punch, push a nail through the flash hole to remove the wads, and continue cutting. The wad, by being placed over the

wad, and a .451 round ball, proved accurate in one gun and had almost no recoil. After 18 shots, only two patches soaked in Winchester Bore Cleaner, and one dry patch, were needed to clean the bore and chambers.

Charges of FFg Black, 25 and 30 grains, without the grease wads, caused fouling and left several streaks of lead. However, a little heavier charge of FFg, 27 grains, with 3.0 grains Red Dot on the bottom to reduce fouling, Ipco wad and .451 round ball, gave smaller groups than the 22 grain load, and recoil was not at all severe.

A graphite wad has been tested to reduce leading: bullets fired without the graphite wad leaded considerably in 12 shots. Common Crisco is also a favorite of the muzzle gunners. The Crisco is placed over top of the ball, which itself is loaded straight upon the powder. The Crisco seems to somehow smear over the bore surface and mix with the powder smoke to keep fouling to a minimum. Ordinary axle grease is also used, dabbed on the chamber mouths after loading the bullet directly on the powder.

If a round misfires because of bad powder or grease in the chamber, all is not lost. By punching out the barrel wedge, on Colt-type guns, or pulling forward the cylinder pin on the Remingtons, the cylinder can be removed. Using a properly fitting nipple wrench, unscrew the nipple, gouge out the inert black powder, and with a punch, drive out the bullet from the chamber. If this happened with an old gun, the nipples rusted in tight for a century, you would have risked damaging to the cylinder or breaking the nipple, or you would have had to drill the ball out from the front to unload it.

With the advent of modern facsimiles of the old timers for shooting fans, one of the hazards of black powder revolver shooting has been avoided: double shooting. In the old days, this occurred because of either fissures in the cylinder walls, too-long nipples with caps flashing over, or possibly caps fitting incorrectly and being set off when the cylinder slapped back in the frame in recoil. Today's guns are fully proof tested and more tightly fitted, and there need not be any duplication of this effect. When your percussion revolver in mechanically good condition is loaded properly, it is as safe from firing more than one shot accidentally as is a modern revolver.

Accuracy on these "old type" new guns is good, though it could be better. The original type conical bullets are worthless for accuracy. In spite of ramblers fitting fairly tightly in the barrel frames, guiding them straight down in the chambers, there will be a tendency of the bullet to tip a trifle. Also, the heel-base bullet is shaved some on loading, and this is not always uniform, causing the bullet to fly erratically. The spherical bullet is best, because it centers best in the chamber and bore. But, like all round bullets, it is limited as to velocity and range.

Cleaning is easy with black powder shooters, though wife or mother may suggest you get the heck back into the bathroom and clean up all that mess.

With handguns, I usually pull the barrel and cylinder off and wipe the smoke from the lock frame as carefully as I can with a solvent-soaked patch. Then, every three shooting sessions or so, I disassemble the



Regardless of potency of powder, fill chambers so ball just fits.

powder, tends to make the powder fouling soft and less likely to cake hard on the bore surface. When it cakes up hard, it smears off portions of the bullet, and the build-up destroys accuracy and increases pressures.

Place a round lead ball, cast of soft lead and with the sprue spot upwards, on top of the chamber, turn it under the rammer, and push down all the way. Uniform compression of the black powder charges will not injure the powder if done lightly, so seat the bullet as far down as it will go. As Sam Colt used to say, "It will be safe to use as much powder as the cylinder will hold, leaving room for the ball."

However, best accuracy is obtained by charges less than maximum. About 27 grains of FFFg Black in the .44 Centennial revolver performs well. Flask spouts are available cut to that length, though some prefer the flask with the 36 grain spout, allowing them to weigh charges experimentally at first to get the one which shoots best, and then cut the spout to throw exactly that charge. Experiments have been made using Red Dot bulk smokeless shotgun powder as a non-fouling agent, and 2.0 grains Red Dot, 22 grains FFg Black, one .046 Ipco colloidal



lock entirely and wipe all parts free of smoke. If you live in a damp climate, this lock cleaning must be done more frequently, or each time you go shooting.

But disassembly is easy. Remove the backstrap screws; then the handle. After turning out the main spring screw to relieve tension on the hammer, the three trigger guard screws detach the guard and plate. The lock screws, inside spring, trigger, hammer, and bolt, are removed, and their parts removed, in that order.

Be careful in replacing the hammer with hand attached that the hand spring lies correctly inside the frame slot and doesn't "hang up" and break. The hammer should not be cocked under spring tension unless the backstrap is installed, as the top of the backstrap governs the hammer pull and keeps it from compressing the main spring too much. Reassembly is in reverse order, of course.

Washing the barrel and cylinder is done in hot plain water; or you may use soapy

water if you prefer. Mostly, it makes the cleanup of the basin easier, later. Turn out the nipples and clean them of cap flash which might cause later corrosion; wipe the insides of the chambers and barrel dry, and oil thoroughly; then reassemble. If scalding hot water is used, the metal will heat up and dry itself, making your task easier.

The modern American has always had an affection for the history of his country, no matter at what point his ancestors may have entered into that history. But a respect for the articles from that past is a part of the respect for history, and few shooters today willingly remodel or wear out a good old gun, now that good shooting replicas are made. The replica boom has helped the collector immensely by making sure there will still be some good old guns left for the showcase. And marksmen can now enjoy black-powder shooting with new, safe, accurate guns at a fraction of the cost. In hand-gunning, it's the replica that's right for the range.

## FOR FAR TARGETS

(Continued from page 23)

deceptive enough to throw him off those vital few inches. Later the same day, Jack busted his two bucks in the same area, under similar conditions, but at somewhat shorter range.

Or consider what happened in the Caribou Forest of southern Idaho some years ago.

My son Ted and I were trudging up a long barren ridge at sunup, headed for the broken country above, where we'd always scored on large muleys. It was early season, the game should have been high, and we were hardly hunting.

But as we stopped to huff and puff, we looked westward. There, like two white specks in the new sunlight, were a couple bucks.

The bucks were standing, watching us, and at just beyond that magic 300-350 yard range which tells most game that it is safe from rifle fire. The canyon between us was steep, and was filled with a mass of thick, quaking aspens. There was literally no way to get any closer unseen.

"Shall we try 'em from here, Ted?"

"Too far."

"It'll be our only chance at them."

Ted shook his head. "It's too far for me. Try one if you want and we'll see what happens."

I carried a pre-war Model 70 Winchester 7 mm. scope-equipped, with sling, and full of handloads had been worked up especially for that rifle. The loads consisted of 46.25 grains of 4320 with Speer's 130 grain spitzer bullets and they would group into a postage stamp (almost) at 100 yards from the bench. With them I had dropped several deer, antelope and yodeldogs in the past few seasons. The rifle was sighted for 200 yards.

Holding high, I eased one off. It seemed seconds later, but the lead buck went down with a broken back—one of the luckiest shots I'd ever made.

Ted is a fine shot, and carried his scoped and sling-equipped Model 721 Remington .270. In his handloads he used 130 grain ABC bullets and a maximum charge of 4895. Seeing what happened to my buck, he quickly sat down, wrapped up in the sling, and started cutting loose. With the fourth shot he rolled the other two-pointer.

A final and somewhat unusual example happened recently in Wyoming, again with McNeel.

That year I carried a Schultz & Larsen, full of factory 7x61 Sharpe & Hart loads, and wearing a 6X Leupold Mountaineer Scope, largely because I'd just returned from Alaska where the outfit had taken my Dall Ram and two trophy caribou bulls. This is a fine, long-range outfit.

As McNeel and I returned to the road, in the late afternoon, and in deep snow, he spotted a big buck resting in some aspens on the opposite ridge. The country was semi-open, foliage sparse to the point of barrenness, and the wily buck, with a long view in every direction, had bedded down feeling himself entirely safe. Again, it was one of those situations where trophy-sized game arranges the odds in its favor—and those canny arrangements make it impossible to get closer.


I wanted that buck badly. He'd obviously out-smarted enough hunters to have reached his prodigious size, and just lay there "asleep with his eyes open." The range, I estimated to be a full 300 yards.

Sitting in the deep snow, solidly wrapped in the sling, and holding on the spine, I eased off the 160 grain Norma bullet. The buck reared high, throwing snow, and plunged downhill. On the third jump he collapsed with a chest hit. He had at total of eleven points and would have exceeded 250 pounds alive.

These are typical examples of trophy-size deer experienced in survival strategy and living in open western country. If they are taken at all, it sometimes has to be at extreme ranges.

I am opposed to shooting at any game beyond 400 yards; I am also opposed to game-shooting at any, even closer range which is beyond the skill of the hunter. I'm against indiscriminate shooting at game just in the hope that one shot might connect; I disapprove of shooting at moving game at any long range (and "long" means anything beyond the sure skill of the shooter)—and I am opposed to shooting at game, regardless of the rifleman, with inadequate rifle-power.

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This does not mean that any game within 400 yards is within rifle range; it means, rather, that only under optimum and rare conditions is 400 yard game ever within range.

Despite this, the hunter of trophy game can take prized animals cleanly and consistently if his skill, practice, equipment, and the hunting condition all coincide to make the presented opportunity reasonable—and if he'll turn down the chancy shots. There are sound reasons. Distant game is unalerted, often standing game. There is time for a trophy appraisal, for a solid shooting position, for range estimation, to catch your breath and allow the heartbeat to slow down, and for a target-like trigger squeeze. For the skilled hunter and seasoned rifleshooter, the combination becomes vastly more deadly and sporting than the

excited whanging away at spooked and running game even at close range.

Cartridges for the long shots must have superb accuracy and good bullet weight, sectional density, shapes conducive to fine retained velocity, and the capacity to open up well at long ranges. Practically speaking, this means high initial velocity, bullet weight of over 100 grains, sectional density of .230 and upward, spitzer type points, and jackets thin enough on the forward end to permit adequate expansion after high velocities have fallen off. Caliber should be above .25.

The popular .243 Winchester, .244 Remington, .250 Savage, .257 Roberts, and similar cartridges, while fine for medium ranges on deer, do not qualify for long-range shooting. At the opposite extreme, the big .30 caliber magnums are unnecessarily powerful.

Sandwiched between these are several which approach the ideal. They are the .270, 7 mm, .280, 7x61 Sharp & Hart, and the .264 Winchester Magnum. All these, with proper bullets, will do the job well. The ideal bullet weights are 130 grains for the .270, 150 grains for the .280, 130-139 grains for the 7mm, 160 grains for the Sharp & Hart, and 140 grains for the .264. Good shapes include the spitzers of long ogive, the spire-points popularized by Hornady, and his latest spire-ogive now available for the .264 and developed especially for that caliber. As to construction, the Nosler bullet approaches the ideal for long-range shooting.

Rifles handling these cartridges, and comparable wildcat duplicates, will generally be bolt-action guns, but may include any type action which will consistently produce the necessary accuracy. This, for the above type of shooting, means close to 1½ inches at 100 yards.

Often, to obtain such accuracy, the individual rifle must be "tuned up." Loose guard screws, sloppy bedding, a trigger-pull with all the crispness of dragging a tom-cat through a knothole by the tail backwards, and similar factors can all spoil any rifle's inherent accuracy. Such faults are easily corrected by tightening screws, shimming up or glass-bedding the barrel channel, or having a gunsmith hone the trigger-pull.

Sights for the long-range deer rifle include scopes, period. Open sights and even peep sights for over 300 yard game shooting are useless. The best power is 4X to 6X, though a lower power will suffice. On the two bucks Ted and I bagged, we used 3X Weaver scopes, not necessarily by choice for such extreme work, but because we had them along, expecting average ranges.

A sling is a must for this form of shooting. However, its use is mainly for lugging the rifle, but when support is needed, your sling can save the day.

There are two good ways of sighting in a rifle for long-range work in open country. This applies, as do most of the other suggestions, to the hunting of antelope, caribou, sheep, and other "long-range" species. One way is to sight in for the longest expected range, such as for 350 yards, then learn the correct over-hold for intermediate distances. My personal preference is to sight in for 200 yards, then learn the hold-over for 300 and 400 yards. This prevents shooting over the game at shorter distances.

To become deadly on the long shots, the hunter must get a concept of what 300 or 400 yards look like; he must acquire the ability to estimate distances fairly well under

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adverse and varied field conditions; and he must learn to hold most of his bullets in a 12 inch circle, from a solid shooting position, at 300 yards.

All this takes a bit of doing, but it can be accomplished—and without firing a shot at game.

First, under the hunter's home conditions, he should in some way establish a known 300 yard distance. Next, at every opportunity he should mentally say, "That's 300 yards," and sight his unloaded rifle at an object at the far end of that distance. In rural areas, these objects may include fence posts, trees, and ditch-banks. The urban fellow is more restricted, but his dry-practice targets can be building tops, if nothing else, sighted at through his window.

Gaining a conception of this "outside" range is essential to the later utilization of a known distance in the hunting field. Every long-range hunter should establish such a known distance and aim at the object at the terminal end. Last comes the live ammo shooting, at the same distance and with the same type of ammunition as to be used on the hunt, either on the target-range or in informal practice. Never practice while hunting.

Maybe the way I do range-estimation and dry-practice might offer some suggestions. Our acreage is 110 yards wide. Adjacent are two more acreages of the same width. The acreage is 440 yards long; and with the shooting bench and shop approximately 40 yards from one end of the land, this means an established 400 yard distance. There are fences at 110, 220, and 330 yards in the other direction—all measured from the shooting-bench and shop. If I want to dry-aim a rifle through the shop window at a rough 200 yards, it's simple to sight at the second row of fence posts. Or, at 400 yards, at something at the far end of the acreage. Just beyond this 400 yard fence, cattle and sheep graze in an adjacent field. The neighbors didn't know until now, but their sheep and calves have been "shot" at least ten thousand times by me, without the loss of a single pound of steak or mutton. I still make some beautiful field misses at deer, but credit for the hits goes to this practice.

In open deer country, where these long-range shots pay off, only two positions should be used, and they should be practiced in conjunction with the dry practice. These are the sitting position and what I call "prone-drape." The sitting position, under the handicaps the terrain usually offers, is the most useful of all hunting positions. It allows the hunter to clear brush and obstructions, yet is nearly as solid as prone. Prone, in the hunting field, hardly ever means flatly bellying the earth, spread-eagled, and shooting at a target in the same horizontal plane. It usually means draped over some blow-down, lava-rock, mahogany clump, or boulder, and shooting at something below, above, or sidewise.

Practicing the sitting position, in conjunction with estimating field ranges will pay off when that trophy buck stares back at you from that craggy 350 yard sky-line. Providing of course, you have a rifle-cartridge combination capable of laying 'em into his boiler room, and precisely sighted in.

Often, however, a hunter's care, practice, skill, and effort will backfire. When Winchester's .264 Magnum came out, I acquired

one, figuring it to be the last word in long-range guns for trophy bucks. I had a neighbor, Ike Ellis, re-stock the rifle with a fine Fajen Aristocrat stock, fitted to my dimensions and glass-bedded the inside. Next, I put on a 6X Weaver scope.

I set up a target at 200 yards and practiced at that range. About then, Joyce Hornady came out with his new spire-ogive, 140 grain. 264 bullets. I began cooking up loads with them, and stopped with 64 grains of 4831, CCI Magnum primers, and bullets seated to the cannellure.

The 140 grain bullet, with that charge, gives around 2800 fps, according to Speer's new Handbook. In my rifle, it is very accurate, and represents a near ideal combination for long-range trophy deer and deer-sized game. With it, I practiced and practiced some more, at 300 yards, and 400. I got real

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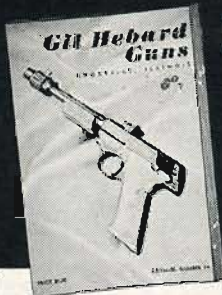


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confident. I was ready for that long shot.

The test came in Idaho, as I hunted with my son. We spotted a great 4-pointer at a long 400 yards, moseying into the timber on a snowy sky-line. The temptation was strong to sit down, hold a foot over his spine, and let him have it. But you can over-do a good thing. So I said, "Let's see if we can get a little closer."

So we started the stalk. On the way up the hill, Ted rolled his own deer at 125 yards with a shoulder shot from his .270. Thinking

my own great buck was now long gone, we started up to the dead deer.

Suddenly, out of nowhere, bounded my big buck, then stopped. He was a little closer, and the first shot from the tuned .264 reduced him to possession. How far? About 75 yards.

But if I had not practiced long-range shooting with a long-range gun, that 400 yard chance might have been the only one of the season. You just never know how the cookie will crumble.



## ARE YOU OVER-GUNNED?

(Continued from page 21)

condition itself to the magnum. When he pulled a trigger, even on the 16, he unconsciously flinched in anticipation of the recoil. Having reminded himself that the gun had a soft recoil, he had touched it off without flinching.

It takes very little flinching to toss accuracy to the winds, and in the case of the shooter who is flinching only mildly, it is unconscious.

Inevitably, it is recoil that does it—recoil as it is felt by the shooter. It may result from repeated recoil rather than heavy recoil. You may want to dispute that by citing the case of the English shooter, who may burn up from 150 to 200 shells a day shooting from a grouse butt. "You don't hear of these shooters flinching, despite the fact that they burn up more ammunition in a day than our average shooter does in a month."

I can give you the answer to that, but you may not like it.

The average British twelve used for this

shooting weighs approximately 6¾ pounds, and the boring is what we would term modified. Their normal load for this shooting is lighter than our low-base hull, being 2½ drams of powder and 1 ounce of shot. And that gun has been fitted to them to the point where it is as comfortable as an old glove.

Now let's see what kind of belt they get when they pull the trigger. A 6¾ pound twelve, with 2½ drams of powder and 1 ounce of shot, has a recoil velocity of 13.9 foot-seconds and a recoil thrust of 20.3 foot pounds. This means that the gun comes back at a speed of almost 14 feet in one second. Foot-pounds, translated, means the force required to raise one pound one foot. When you work this whole thing out on the basis of "kick," the Britisher is getting very little. Also, being fitted to him, the gun mounts properly and rests where it should on his shoulder.

Suppose we put the average American shooter in the grouse butt. His gun would be slightly heavier, probably scaling about 7 pounds. If he shot our normal low-base shell, he would be using 3¾ drams of powder and 1½ ounces of shot. The recoil velocity would be 16.6 foot-seconds and the recoil thrust would be 29.8 pounds.

However, this would not be the average American shooter. He would decide that, if low-base shells were good, high base would be a lot better. After all, you want to reach those high birds. So he would load up with 3¾ drams and 1¼ ounces of shot. This brings the recoil velocity up to 20.1 foot-seconds and the thrust to 44.0. In effect, he is taking almost twice the beating from his gun every time he pulls the trigger. On top of this, the chances are his gun is far from a perfect fit, which means he is taking the recoil in the wrong place.

If you wonder why my friend was flinching after shifting to the magnum, it might be interesting to note the increased recoil he was getting. With the 6¾ pound field gun, he used 2½ drams and 1 ounce of shot. This resulted in a recoil velocity of 13.9 fs, and a recoil thrust of 20.3 fp. With the eight pound magnum, he was using 4½ drams of powder and 1½ ounces of shot, which delivered a recoil velocity of 20.0 fs and a recoil thrust of 49.8 fp. In brief, an object of more than one-third his own weight, traveling thirteen miles per hour, caressed his shoulder each time he pulled the trigger.

Too many scattergun enthusiasts have the idea that the heavier load, that is the high-base shell, or the magnum, pushes the shot pellet faster and harder, and that it will increase the killing range. Actually, it does none of these things. It provides a better

(Continued on page 50)



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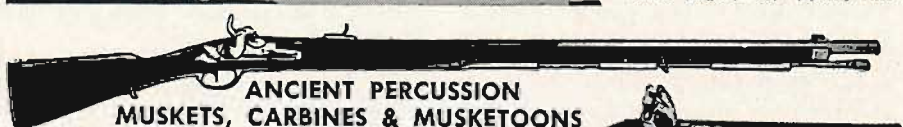


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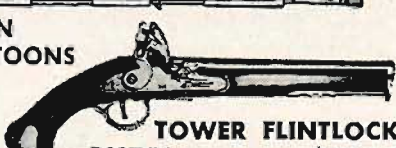
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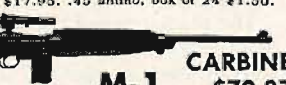
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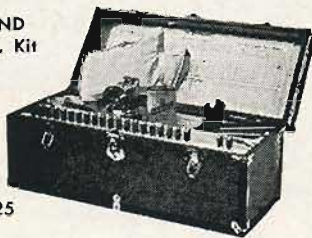
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(Continued from page 48)

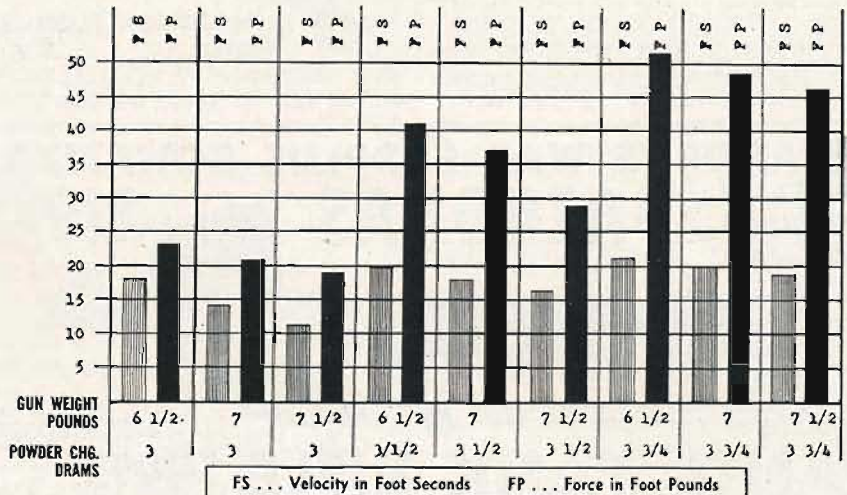
pattern at longer ranges, and it does this only because it throws more shot. This may sound like heresy, but it is simple, scientific fact.

The shot pellets when they emerge from the muzzle of a 12 gauge magnum have a velocity of from 1315 to 1320 feet per second. The shot backed up by a standard, low-base, 12 gauge field load leaves the muzzle at a velocity of between 1320 and 1325 feet per second. The velocity loss of any shot pellet of a given size is exactly the same, whether

a magnum 12 will make repeated kills at 55 and even 60 yards? The answer lies in that 25 per cent increase in the number of pellets. There are still enough pellets inside that 30-inch circle at 60 yards to make it a killing pattern. There would still be pellets buzzing around from the field load also; but they would be so widely scattered and so few that a kill at that range would come under the heading of sheer luck.

On upland game, however, you are not using a full choke barrel, and if you will pace off your quail, pheasant and grouse

## RECOIL



it came from a magnum shell or one with a low base. The magnum load, however, has 1 5/8 ounces of shot, and the field load 1 1/4 ounces.

For some reason that no one has ever explained, a circle 30 inches in diameter has been established as a shot pattern criterion, so we might as well use this, along with number 4 shot, which is a standard duck load.

At 40 yards, which is a nice long shot, the 1 1/4 ounce field load pushed through a full choke barrel will put from 110 to 120 pellets inside that circle. Any teal that happens to be within the confines of that circle at that range is a dead duck. The 12 gauge, 3 inch magnum load, with about 25 per cent more pellets to begin with, will put the same number inside that circle at 46 or 47 yards. Those pellets from the magnum will not be traveling a bit faster than those from the field load.

If this is the case, you ask, why is it that

kills—not where the bird falls, but where you hit it—you will find that your shots are made at something between 20 and 30 yards. Also, you are not using number four shot on these birds; probably you use sixes. With sixes at 30 yards with a modified barrel, you have a killing pattern, whether the bird is as small as a quail or as big as a turkey. With an open barrel, the killing pattern will hover around 25 yards. In other words, you *do* have egg with your beer.

The majority of upland shooters have a deep-rooted aversion to lugging around a heavy gun. They prefer to sacrifice a couple of inches of barrel (which doesn't hurt the pattern) and reduce the stock weight until they have a twelve that tips the scales at about 6 3/4 pounds. Some go down to 6 1/2 pounds. With standard field loads, the recoil will not be at all excessive. This is not, of course, the fowling piece for a small boy, but any adult tipping the scales at 150 or better can take it without flinching.

Then, along comes a friend with an invitation to hunt ducks. The conversation may go something like this.

"You've got a twelve, haven't you?"

"Sure, with a patent choke. I can turn it down to full."

"That should do the trick. Just pick up some express loads."

The man at the sportshop points out that he is now carrying the 2 3/4 inch magnum loads with 4 drams of hot sauce and 1 1/2 ounces of certain death. "Pull down a duck as far as you can see it," he assures the customer.

The shooter may be 6-foot-two and weigh in at 220, but when he touches off that blast he will have a practical demonstration of what Newton had in mind when he said "every action has an equal and opposite reaction." The reaction, recoil, kick, or what-

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ever you want to call it, will lay him right back in that blind. If he dropped a duck with that shot, there is every reason to believe that it will be his only duck of the day, unless he just happens to have a few low-base loads in his gunning coat. Even then he's going to be a bit apprehensive when he touches the trigger.

Worse things could happen, of course, and I was present when one did.

We were hunting sharp-tails in Canada and ran into a day of wind and rain that made this shooting impossible. A local member of the group announced that he knew where there was some good pass shooting on ducks when the weather was right, so off we went.

Three of us had brought along heavy duck guns, just in case; but the fourth unfortunate had nothing but a 6¼ pound twelve. He was no midget, and announced that he could handle the high-base express loads without suffering too much pain.


The shooting was as advertised, and we were doing very well. I was next to the light-gun lad, and although he flexed his right arm a few times after each shot, he seemed

able to take it. Then a single came over on his side and I happened to be watching when he pulled the trigger.

For the first time (according to him) the gun doubled. When the two hot ones let go almost simultaneously, he laid right down in the lake. He had courage enough to keep on shooting the rest of the day, loading the gun with only one shell, but he didn't kill another duck. He was flinching, and he knew it. The black-and-blue spot disappeared in a week or two, but I learned later that it was almost a year before he managed to lick the flinching.

So what is the answer?

It isn't difficult. Suit the gun and load to the job it has to perform, and if the gun doesn't fit you as it should, make sure you fit the gun. But the best way is to make the gun fit you. Find a gunsmith or stocker who has a "try gun"—let him fit the "try gun" to you and tell you what combination of stock measurements is right for you. Then have your gun stocked to those measurements.

It may cost you some money. But you'll shoot better—and suffer less. 

## READY FOR THE FIRING LINE

(Continued from page 33)

Over-all height is 5¼ inches, and the sight radius is a comfortable 61¼ inches. Empty, my gun weighed a shade under 41 ounces.

The finish on the gun is the standard bright blue and highly polished S&W finish, excepting of course the sighting areas which are in the customary dull finish. Construction of the gun is steel throughout, and the grips on my gun (serial number 50633) are sharply checkered from a handsome piece of walnut. Being endowed with relatively large hands, I might want to get custom grips for the gun, but this is par for the course; all target shooters of my acquaintance are grip tinkerers, and we are constantly looking for still better grips in the misbegotten hope that new grips would boost our scores.

The sights on the Model 52 have been designed specifically for target shooters. The front sight is a standard ⅛" Patridge sight; the rear sight is the new S&W Micrometer click model, adjustable for windage and elevation. Each click of the rear sight moves the point of impact on target about ½" windage or 1" elevation at 50 yards. The click arrangement is positive, the slotted screw takes a penny or a dime, and someone at S&W used his head and put directional arrows on the click sight so that there is never any question as to which way the sights must go to get the desired result.

The trigger pull is excellent and repeated tests produced uniform 40 ounces readings on my trigger pull scales. Trigger let-off is smooth. Although tools are supplied with each gun—a spare magazine is also included—Smith and Wesson suggests that the trigger stop, set for .014" to .020" clearance, should not be changed unless absolutely essential. Since this gun is extremely well tuned, I would suggest that the gun be left well enough alone—except for the necessary stripping to clean it.

The magazine of the Model 52 can be taken apart for cleaning without tools. A pencil can be used to depress the spring in the magazine, and the magazine butt plate can then be moved easily. It seems to me that

a slightly sturdier lip on the magazine would have been desirable.

Take-down of the gun itself is very simple and no tools are needed. Field stripping takes but a few minutes, but it is essential that the barrel bushing wrench be kept in the gun box with the gun. This wrench fits over the notches of the bushing collar, which in turn is held tight and cannot shoot loose, thanks to a spring loaded lock plunger. In reassembling the gun, it is essential to see to it that the recoil spring guide fits into the little half-circle cut in the barrel lug (see picture) for proper function.

Joe Merrill of Merrill's Reloading Service reloads most of the quantity wad-cutters for me, using a H&G #50 mould and a Star press. Since the bullets for the Model 52 have to be seated flush, we decided to seat them base up, and this worked out fine. Bullets were sized to .358", and we used 2.7 grains of Bullseye. Care, however, is needed in selecting the cases since they cannot be over-length. For our test loads, I trimmed brass to measure not more than 1.141" and experimentally tried some of the longer brass with the result that ejection was not com-

(Continued on page 53)

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25 caliber  
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plete. When the same brass was trimmed to 1.141", function of the gun was again perfect. Joe roll crimped the bullets and it appears that this will be a fine load for the new .38 automatic. Since high velocity loads are not needed, I feel that 2.7 grains of Bullseye are adequate, and that nothing can be gained by jacking up the load. I have not tried the CCI Magnum primers with these loads, since I had perfect ignition with the CCI 500 primers.

Although the price tag of \$150 might appear high to some shooters, it must be kept in mind that a lot of the customizing jobs done on target automatics often run to at least that much money, and several of my

paper-punching friends have paid twice that price for an accurizing job.

The Model 52 is a precision piece of shooting equipment, and if you don't score with it, you cannot blame the gun for it. The gun has been in the research and development stage for a long time, and prototypes of the gun were tested during matches by a few select shooters. Enthusiasm and acceptance of the Model 52 by these men led Smith & Wesson into the production of the gun. Firing the 38 Master over the course is a highly gratifying experience. Try it, I am sure that you too will like this new target automatic. 

## RELOADING IS EASY, PART II

(Continued from page 37)

block. This is just one grain above the bottom load, but long experience, not guesswork, has shown it to perform excellently in any .270 I've ever fired. True enough, many handloaders use more. In some rifles, depending on mechanical variations, more is OK. But always start *safely*, and with a powder showing best efficiency for the bullet weight and caliber you are using.

Arrive at weight of powder charge with good powder scales. Do *not* rely on a measure only, regardless of accuracy claims of an accompanying chart. Micrometer setting figures on charge tubes or measures are *not* a guarantee that the measure will throw the correct charge at this setting. These are reference numbers only. They have to be, due to the vast difference in powders. Depend on your scale. Adjust the measure until it delivers the correct charge. One particle of powder is *not* a grain. A grain is a unit of weight. There are 7,000 grains in one pound.

Powder measures speed things up tremendously, but their dependability for throwing uniform charges depends much on you. For instance, on the Belding and Mull, it is important to operate the charging lever with a complete and uniform stroke, going and coming. Hesitating, double stroking, etc., disrupts accuracy. This measure, a favorite of long standing, closes off its bottom compartment from the main container while the charge tube is being filled, thus assuring identical pouring pressure into the charge tube each time, until its top container is empty.

Many measures, such as the Lyman No. 55, feed directly from the magazine. These should be kept half full or more to prevent light charges. On the No. 55, use the knocker

when the drum is turned to fill, and again when it empties, and operate it with a uniformity of motion. Once your measure is set to conform to scales, it is well to weigh a charge occasionally to keep watch on measure performance.

When you've finished charging cases, hold the loading block under a light and check each case, making certain they are *all* charged. While you are at it, also see if all cases have about the same amount of powder. If any of them look half-empty or too full, dump the charge into the measure and re-do these cases. Now, make a final weighing check on the charges your measure delivers.

When finished charging, immediately empty powder back into the *correct* canister. This eliminates chances of someone operating levers or measure handles and spilling powders. It prevents settling worries, drying out, or forgetting what number powder was actually left in the measure.

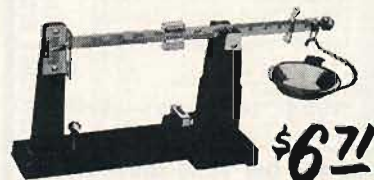
Now the seating die is screwed into your press in place of the sizer. (On many presses it is necessary to remove the sizer before priming.) Turn the seating die down to nearly touch the shell holder, set the lock ring against press frame. With the charged case in the shell holder and the press in the open position, place the bullet on top of the case, guide it into the die as you operate the lever slowly. When you feel resistance, the bullet nose is making contact with the seating screw in top of the die. The distance that now remains between your shell holder and die bottom is approximately the amount the bullet will be seated into the neck at completion of the press stroke.

Best procedure is to turn the seating screw up (counter clockwise) several turns before

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seating the first bullet, allowing the full stroke to seat it only partly. Then turn the seating screw down (clockwise) into the die a little more, and run the cartridge up into the die again. Repeat this until you have the bullet positioned at desired depth, then tighten seating screw lock ring, and all your bullets will seat uniformly.

Several things must be considered in arriving at a seating depth. Cartridge over-all length must not be too long to work in your action. The bullet must be seated in the case neck sufficiently so it will be positioned no farther out than to just touch the lands (rifling) in the barrel throat when the action is closed on a loaded round. After arriving at this, it saves time later if you now seat a bullet in an un-primed, uncharged case, to be used as a master round. Mark this master round with bullet information and save it, so you can duplicate seating depth next time you make up identical loads. As a matter of fact, keeping the master rounds with the appropriate dies will save time and aggravation next time you load this caliber.

If your bullets are seated too far forward, you can have a miserable field experience. The bullet remains lodged in the barrel throat, the extractor pulls the cartridge case out when unloading, and the powder is spilled into the action. Few hunters carry cleaning rods to push out stuck bullets. Shooting another cartridge in a barrel thus obstructed could be suicide, so the day is often the drain. Remember, different makes, shapes and types of bullets have different

tapers, and each calls for individual adjustment in seating depth. It is an excellent idea to try a loaded round for chambering in your rifle several times as you proceed with bullet seating.

During the entire bullet seating process, look into each case to note that it is actually charged. This double-check could save you from serious trouble, which on the surface seemed to be a harmless misfire.

If you fail to put powder in a case, seat



Smoked neck is normal, lack of it, right, means trouble.

the bullet, and later fire the primer in this uncharged case, the sound is so muffled as to be inaudible and passed off as a misfire. The primer force usually pushes the bullet part way into the barrel, lodging it there and obstructing it dangerously. If, while hunting, the empty is ejected and the rifle reloaded without taking your eyes off the game, a potential bomb is created. Treat any misfire with caution. Leave action closed about a minute, or longer; then open, observe the cartridge. If there is no bullet in it, be sure to look through your barrel and check for obstruction.

Once your ammunition is loaded, there are still many things to watch for. Most handloaders will work out loads giving best accuracy within safe breech pressures. But with many there is always the urge to work up close to maximum. Not only the beginner, but the advanced handloader must learn to recognize danger signals.

"What's making my bolt stick shut all the time, and my primers fall out—and the new ones don't want to stay in my brass?" I have been approached by many such questions and evidences of dangerous pressures that make me shudder. When your bolt sticks, you are *overloading* at least three to five grains for that particular rifle, case, powder, and bullet combination, regardless of what any book or pal might say. This statement pertains to cartridges of the .30-06 and .270 class. When your fired primers fall out and new ones won't stay in, that is even more evidence of overloading. If case heads are expanded, thus enlarging the primer pockets, you are *far* in excess of safe pressures. Such cases are ruined and must be destroyed, your powder charge reduced, or perhaps you should change to a slower-burning powder.

If there is any question on your powder charge, stay well below maximum loads. Years of experience can give you much knowledge, but they don't give you immunity to excessive pressures.

(Continued on page 56)

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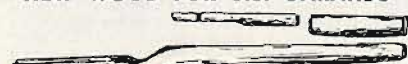
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There is one instance when a sticking bolt may not mean you are overloading. If a case was insufficiently sized and forced into the chamber, it is only logical to assume that it may stick or extract with difficulty, thus not necessarily indicating excessive pressure.

In looking for overload symptoms, don't forget to notice if your primers are excessively flattened. While there is much ado about flattened primers meaning nothing pressure-wise, they are still usually present in violent pressure situations. Many hand-loaders may not own a micrometer, but measuring case head expansion is still a good way to detect excessive loading which may not always reveal itself in the beginning. Case head expansion means overload.

### Sorry

Gremlins were at work again in our April issue. Pictures with the story by Graham Burnside ("Big, Fat, And Rim-fire") should have been credited "Courtesy of 'Shooting Times.'" Our apologies to our friends in Peoria.

Some shooters panic when discovering their case necks are smoke-stained. They are supposed to be. This smoking should never extend onto and beyond the case shoulder. The neck section of your rifle chamber is cut large enough to permit the neck brass to expand and allow unretarded escape of the bullet. Smoking onto or beyond the shoulder indicates excessive headspace, either in the gun, or caused by over-full-length sizing, pushing the cartridge case shoulder back in your sizing die, shortening the case body and causing a loose fit in your rifle chamber.

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### Calling All Fast Guns

A telephone call received from Arvo Ojala just as we locked up this issue brought this announcement: There will be an official World's Fair Fast Draw Championship between the dates April 21 and Oct. 21 at the World's Fair in Seattle. First prize, a \$5,000 Series E Savings Bond; Second Prize, a \$1000 bond; Third Prize, \$500 bond; plus many merchandise prizes. Best three-shot average, with blanks, including reaction time, will win. Entry fee is \$25.00. Write Jerry Schafer, care the Fast Draw Theatre, Seattle World Fair, Seattle, Washington, for details.

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## USSR SNIPER

(Continued from page 19)

increases, so do the distances on the range. The final stage is the firing of the M1891/1930 rifle with iron sights at 1,000 meters.

This government-sponsored training program did pay off since the Red Army was able to call up over 20,000 Voroshilov marksmen of first grade in September 1940. These troops were furnished with scope-fitted M1891/1930 rifles.

The Russian sniper was largely used as a propaganda weapon, and many pictures were received here, showing small-bore rifle training, shooting societies, and similar shooting activities. Other pictures showed units of the Red Army with scoped rifles, some of the rifle stocks showing notches accounting for alleged sniper victims. If we were to believe some of these notches, one might start wondering what the soldier used to shoulder his rifle! Publicity pictures notwithstanding, the active Red sniper occupied a place of high esteem and honor. However, these men were true riflemen and not sub-machine gun artists of the glamorous but non-shooting variety.

Russian snipers working on the defense of a given military object, work from well-prepared positions. In offensive battle conditions, the sniper's place was in the first line of attacking infantry, or in a number of cases, they actually led the attack. If snipers led the attack, they were accompanied by sappers whose sole job it was to smooth the path for the sharpshooting riflemen.

Once the sapper had done his job, he would return to his own lines, the sniper being left alone and well forward. Just before the attack, the Russian artillery would lay down a heavy barrage and it was assumed that in the general din the sniper fire would draw little or no attention from the enemy lines. The Red sniper was trained to aim his rifle at runners, messengers, observers, and other essential military personnel. Once the barrage ceased, activities in the enemy line would increase with the expected attack, and sniper fire apparently often went unnoticed at such times.

Once the infantry attack had passed the sniper positions, these riflemen were left in charge of mopping up operations. Red snipers were frequently equipped with special protective shields, camouflage clothing, and steel helmets.

The sniper of this school and quality was more than a mere rifleman. He was taught to observe, discover targets, and estimate their value and possible significance. He learned to evaluate a military action and was trained to work in cooperation with tommy gunners in moving into the retreat lines of the enemy. There he and the machine gunners would cause havoc and confusion in the retreating enemy lines.

In this respect, Russian sniping and sniper training is not sniping as we know it, but rather a somewhat specialized use of trained riflemen whose primary job is close quarter fighting and some sharpshooting in its not very highly developed stages.

Good information on the equipment of the Russian sniper is available. In the middle of the 1930s, Russia purchased the entire Zeiss plant and thus found herself in a

(Continued on page 60)

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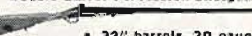
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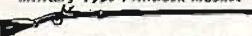
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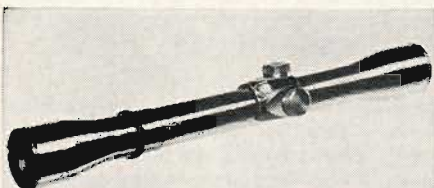
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greatly improved position as far as telescopic sights were concerned. An early result of this purchase was the 4X PE model, a heavy but highly effective unit. These scopes had large objectives and ocular lenses with short eye relief, somewhere between 3 and 4 inches. The scope has internal windage and elevation adjustments, and the 30 mm objective lens has a field of view of approximately 8 degrees. Early during WWII, Russia produced a 3.5X short scope with internal adjustments and short eye relief. This model is known as PU.

The Russian sniper rifle was the standard M1891/1930 Mosin-Nagant. This rifle was designed by Colonel Serge I. Mosin in collaboration with Emile Nagant, whose feed and clip-loading system was utilized. Very early models of these rifles were made in Belgium where Nagant lived and worked. The term "3-line" is often applied to these rifles. Russian calibers were designated in "ligns" and one lign is equal to .10 inch. Hence, 3-line or 3 ligns, indicates the caliber of .30 inches or 7.62 mm. The sights of these rifles are set for meters rather than the heretofore used arshins, and readings go from 100 to 2,000 meters. The rear sight is of the tangent variety, the front sight consists of a hooded post. Noteworthy is the sling arrangement of these rifles: metal-lined slits through stock and fore-end. The gun without scope weighs about 9 pounds; with scope it weighs somewhat over 11 pounds. The ammunition is of the rimmed variety and sniper rifles are specially selected and star-gauged.

The scope mount used on this rifle is a simple bracket fastened over the receiver ring by means of a dovetail base. This places the telescope almost 3½ inches above the bore of the rifle. The PE scope utilizes a standard two ring mount, and the iron sights can be used effectively without removing the

scope. The PE scope has an effective range of about 1,400 meters (1540 yards), the PU model of 1,300 meters (1420 yards).

The next sniper rifle was the Tokarev 1940, Model 40 ZF, a semi-automatic rifle with a 10 shot clip. The sniper rifle varied from the standard arm only in the undercut recess along bottom sides of the receiver for attaching telescope mounts. This mount was a stamping and held the scope high above the bore, held only at the forward end of the scope. The short eye relief PU scope was used on these rifles. The Tokarev sniper model was equipped with compensators and was sighted for 100 to 1,500 meters. Scoped, this gun was an effective sniper weapon. Chambered for the 7.62 mm rimmed cartridge, the gun caused constant repair problems with rim-over-rim magazine jams and ammunition troubles. Flimsy construction and poor field survival finally led to the discontinuation of the arm as sniper rifle.

Russian snipers were not issued special ammunition. In combat, the sniper used heavy ball loads and tracers were used to indicate enemy positions to rearward observers. Cartridges for both guns were carried in clips of five rounds, either in a four pouch arrangement similar to the German method, or in two leather covered boxes on the belt. Scopes, when not mounted on the rifle, were carried in a canvas bag-type case, and scopes were equipped with leather lens covers when mounted.

Perhaps the Russian sniper was not as effective as the Red propaganda professed him to be. But there is no doubt about the fact that government sponsored rifle practice paid off for the Red Army. And government sponsorship for rifle practice might well be worth the effort and cost in this country where we are supposed to be a Nation of Riflemen!

## THE SHOOTIN'EST FAMILY

(Continued from page 26)

straight-A honor student at Central Michigan University, a Homecoming beauty queen, and active in campus affairs. Married last November 25, she was graduated in mid-January *summa cum laude*—one of only three such honors in a graduating class of over 600. Candy is an honor student, class leader, and cheer leader in Allen Park High School. As this was written, the Allen Park basketball team was in a tie for first place in league standings, and Candy was agog with excitement—quite different from the cool young lady she is when she shoulders her rifle.

Mother and daughters are popular in all the circles in which they move, with one possible exception, and this is due entirely to wounded male vanity. In 1960, the three joined with a neighbor girl to win the Michigan rifle team championship, ousting the strong all-male Ford Motor Company team. There was some grouching, it is rumored, on the part of the Ford team, to the effect that the rules said "four-man" team. And anyone could plainly see that the winning team was not made up of men!

While this story is in part about women and girls who have won scads of state, regional, and national shooting championships, and set records in the process, we must observe that females, even if great shooters, can be unpredictable, at least by the standards of male logic.

Candy Jensen, a teen-ager as cute as any

movie star, competed in the national matches at Camp Perry at the age of 9, and won a prize! At the age of 15, she won the National Junior Smallbore Championship, competing against boys and girls to age 19, one of the few girls to win the title, and the youngest ever to turn the trick.

Anyone who has ever even been near a national shoot, whether competing or not, is aware of the tremendous pressure and tensions that are built up. I asked her if the pressure bothered her as she went down the grueling line to this championship. She replied that it didn't bother her "one teeny bit." But, on the evening that I asked the question, she was getting ready for cheer-leading at Allen Park's crucial football game that night, and was so nervous that she couldn't eat. She was begging daddy Marvin for moral support so that she "could exist until game time." (P.S.—Allen Park won, and if you think winning a national individual shooting championship is exciting, you should be around when Candy's football team wins!)

Perhaps some of the bruised male ego in Michigan can be traced to Lenore's winning of the state small-bore title in 1960, against all comers, including some of the best male marksmen in the game.

Lenore won the Womens National Small-bore Championship in both 1959 and 1960, and lost it by a single point to another



fabulous feminine shooting star, Janet Friedell, in 1961. The runner-up in 1960—who else—her kid sister, Candy. Mother and both daughters won three places on the 10-member Women's International Team.

Mrs. Driver has made the select "1600" team three times (a perfect run of 160 bullseyes), and Lenore has cracked this difficult barrier. Candy has not joined the 1600 club as this is written, but don't wager against it.

Candy and Lenore have both achieved the even more select "400" club (40 perfect bulls with metallic sights). Yet their Mother-coach, in all her years of shooting and shooting championships, has not made the ultra-select "400" club. Don't bet against that, either!

And now, back to Marvin Driver, pistoleer par excellence, NRA director, member of the executive board of the International Association of Chiefs of Police, president of the Michigan Rifle and Pistol Association, etcetera, etcetera. How does he react to all this rifle-shooting fame on the part of his wife and daughters?

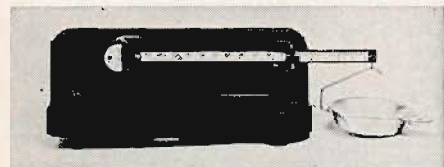
He loves it! The girls go with him to pistol matches; he goes with them to rifle matches. At the pistol meets, the girls are spectators, albeit partisan ones. At the rifle matches, the roles are reversed (including the partisanship). Yet here, again, don't lay any wagers. With this family, in matters relating to firearms, anything is possible, and it wouldn't surprise me too much if, some day, we'd see Marv Driver shooting a rifle and his three girls shooting pistols! They will hoot at the suggestion, but—if one shooting bug can bite you, so can another! And each and every member of the Driver-Jensen family has the virus in their blood. Let those girls win a few more titles and they'll be looking for more world's to conquer!

## HANDLOADING BENCH

(Continued from page 14)

ment of your press, dies and shell holder is also important. One chap had primer crowns separate when firing .222 and .38 target loads. The trouble was a sharp, undersize primer punch. It's hard to dig primer walls out of the pockets.

I found a scale that registered 50 grains for a 54 grain charge! Set at 45 grains the charge was 1.0 grain light. I've never found defective scales made by Pacific, Redding, Webster, or Ohaus. The Ohaus 505 has the most speedy magnetic damper. It eliminates oil seepage on vital parts, and is the best feature. Sensitivity is a desirable 0.1 grain.



Ohaus-Lyman "505" is very accurate.

The beam is precision notched for the rider weights. Black on white calibrations eliminate a major cause of errors in setting. A large, lipped pan is handy. Distributed by Lyman, this excellent and speedy instrument is not the cheapest, but it's a bargain at \$19.50. I like it very much.

The new Fitz Accu-Riser grips for Hi-  
(Continued on page 63)

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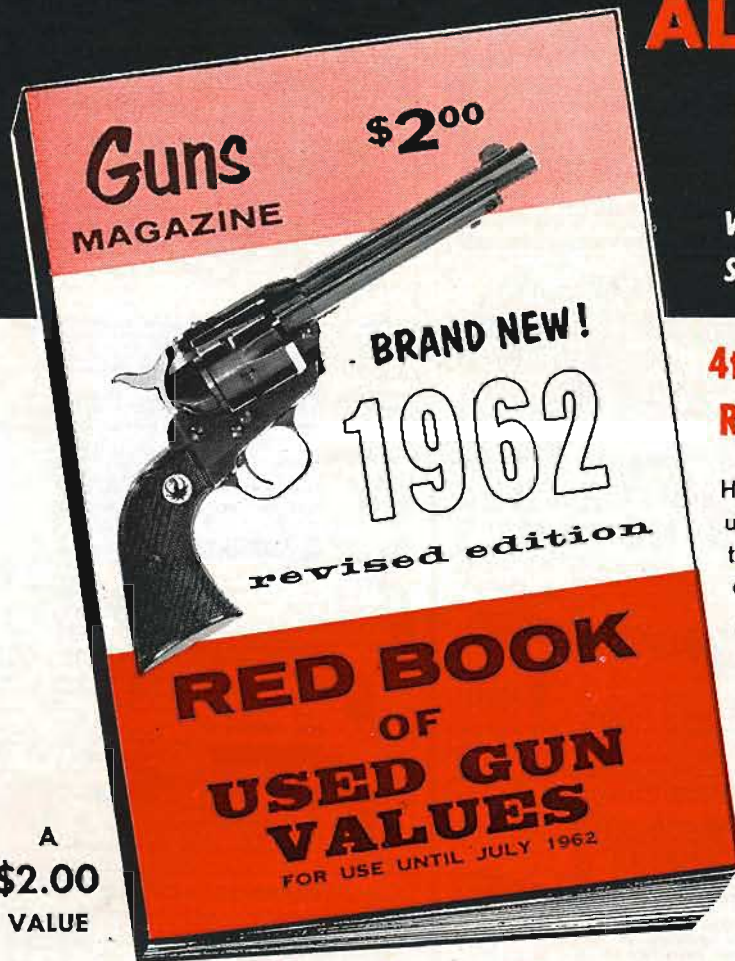
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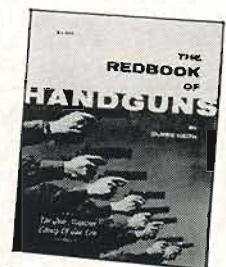
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(Continued from page 61)

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The strength and safety of a rifle depends on the case. We tested excessive loads in new Norma .243 and .357 hulls. I won't list the charges, as they were too hot, but the cases took it. This indicates a large margin of safety. I like Norma's drilled vents. The .357's have no cannellure to pull apart or cause excessive case stretching, an excellent feature.

B. E. Hodgdon, "The Powder Man," is now in Shawnee Mission, Kansas. His new \$1.00 catalog has 76 pages, listing nearly everything for hull fillers. There are 10 pages of loading data for his powders.

We are working with Du Pont's new Hi-Skor pistol powder. It isn't a simple job. Many loads must be tested with various charges, primers, bullets and cases, in numerous guns, and a varying loading technique. Indications are it's good stuff, worthy of the famous Du Pont name. But I'll have to learn a great deal about Hi-Skor or any other new powder, before listing loads in this column. If it has any bad habits, is temperamental, or critical in loading, you'll hear about it.

I've been accused of being "too careful." Maybe. But the great firm of W-W recalled their excellent 295HP Ball Powder because the charges and technique were too critical for a few reloaders. I spent many hours detecting the behavior pattern of 295HP. The time was well spent. My loads in this column were equal or superior to the W-W loads, and are excellent indeed. I'll spend just as much time to learn the behavior of Hi-Skor. You'll be assured of trustworthy dope in GUNS Magazine, plus any tips that will help assemble superb fodder.

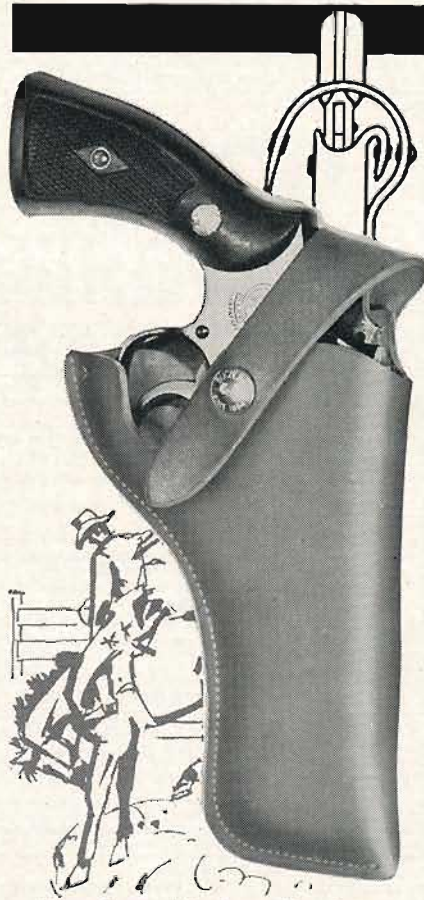
The late Walter Smith's "NRA Book of Pistols and Revolvers" was a classic in its field when it came out in 1946. Walter knew more about guns than any man I ever met. (See GUNS, September, 1960.) The First Edition contained some errors, but very few for a work of this type. It was my pleasure to revise the Fourth Edition, adding a Post War Supplement, and correcting most errors. I agreed with General Stackpole and General Sweet that the title should be changed to "The Book of Pistols and Revolvers." Truly, it's the book.

The new Fifth Edition will soon be ready.

(Continued on page 65)

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(Continued from page 63)

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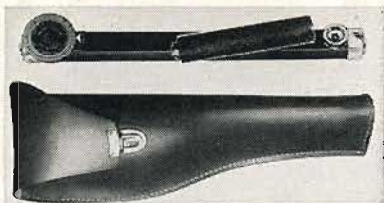
## GUN RACK

(Continued from page 12)

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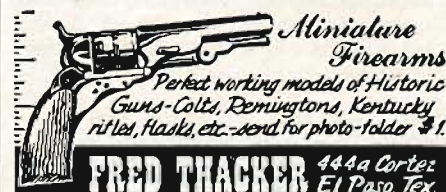
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