

JULY 1958 50c

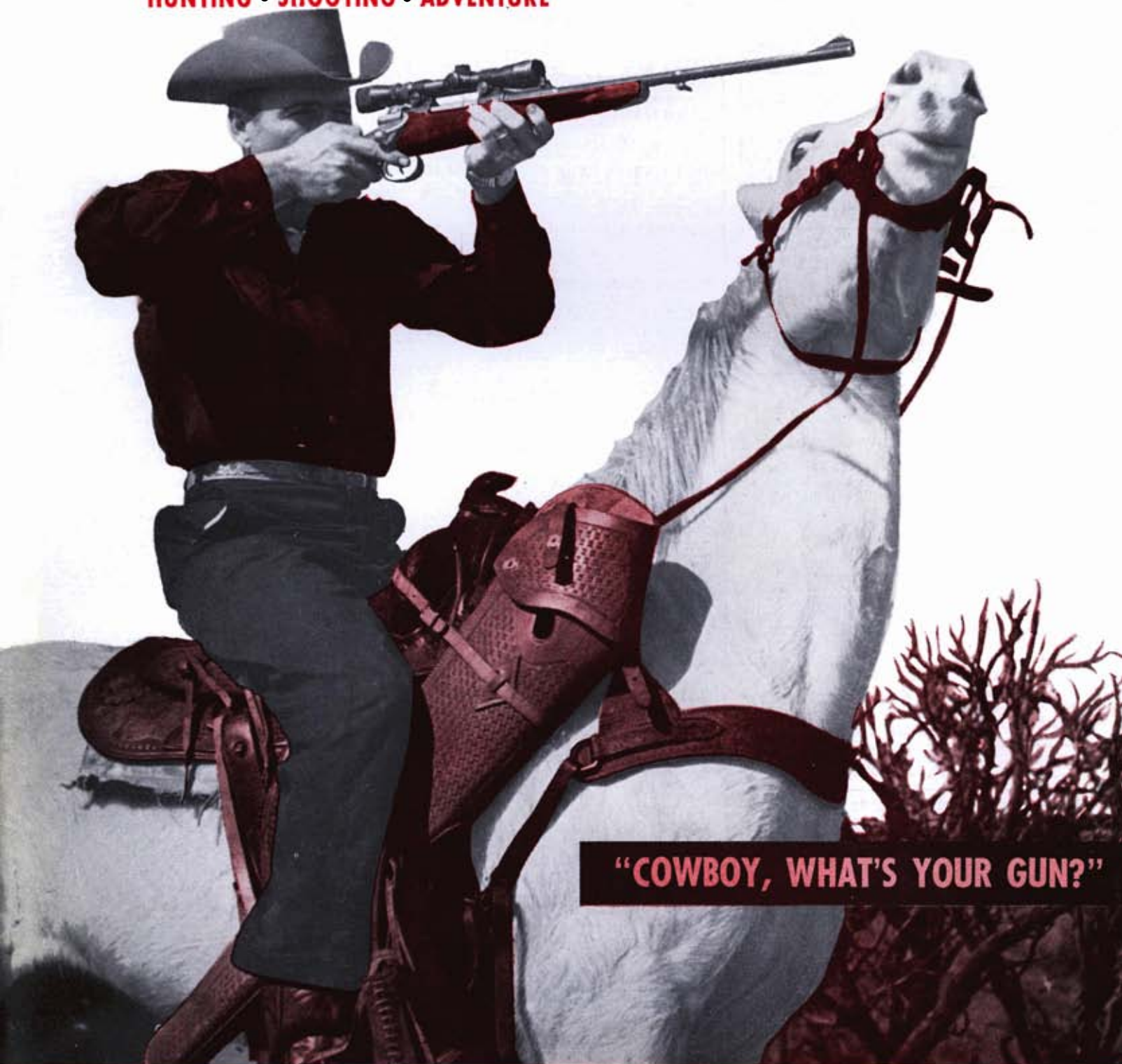
FINEST IN THE FIREARMS FIELD



Guns

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NEW ARMY RIFLE



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WARNING! American shooters! You may subject yourself to U. S. excise tax and other liability in purchasing your guns from non-American sources!

MAGNIFICENT SWEDISH MASTERPIECE MAUSER

CAL. 6.5MM Swedish Mauser ONLY \$22.50

Without any doubt the finest Mauser ever built are these never-before-available Swedish masterpiece long Mausers! Superbly finished metal and wood work and modern high velocity 6.5MM cartridge make them the best rifle buy ever placed on the U. S. market. Norma sporting ammo available throughout the U. S. or Ye Old Hunter's fine issue half rounds for only \$5.50 per C. You all know what fine imported Swedish Mauser sportsmen will for so here's the bargain of a lifetime for those who want the absolute best! Only \$22.50, 20" barrel - true Swedish Mauser action, Cal. 6.5MM.

AUSTRIAN MANNLICHER POLICE CARBINES!

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

Another bargain from Ostmark! Ye Old Hunter talked the reliable Austrian out of these beautiful light weight 5 shot 24" bbl. police carbines - a rare lot available in standard 8MM (8 x 57) Mauser caliber - sporting ammo. Available from Ye Old Hunter for only \$5.50 per C. Magazine modified for use without clip loading. Heavy to go, tight and clean, and only \$19.88! Ach Du Lieber, What a masterpiece!

RARE REMINGTON 7MM CARBINE

ONLY \$11.95

Ze extremely rare and ultra-desirable original 7mm Remington carbine is one of the most sought-after Remington models among collectors today - yet now Ze Old Hunter, his generous heart bursting with generosity, brings this scarce item to Ze American collecting fraternity for all time at the unbelievably low price of only \$11.95! Order today while supply lasts. An item you'll love, cherish, adore!

GARRIBALDI'S GREATEST! FAMED MODEL 70-VV SNIPER RIFLES Length 53 1/2". Weight 9 1/2 lbs. Cal.: 6.5mm

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

Yes, you are not dreaming!!! This offer is TRUE!!! In this world of sky-rocketing prices and run gouges from elsewhere YE OLD HUNTER has thrashed his way back from Italy with GARRIBALDI'S GREATEST at a price which will set a record forever! The incredibly accurate and amazingly machined 4 shot repeating GARRIBALDI'S FIREARMS can be had NOW for ONLY \$9.95 COMPLETE WITH 100 ROUNDS OF AMMO IN ORIGINAL CLIP! This UNPRECEDENTED bargain will resound in the arms halls of Valhalla forever! That's right, you will not just the ammo at this price! But also the great GARRIBALDI's rifle! This model for the elite troops after a sniper clipped the cock feather of his number at 600 yards while aiming at his head. This is the rifle that COULD WIN! WOX, the Korean War, has been awarded. Enjoy the greatest and cheapest big bore shooting of your life with your soon condition throughout GARRIBALDI'S GREATEST at only \$9.95 COMPLETE WITH 100 RDS OF ORIGINAL CLIP! This UNPRECEDENTED bargain - if you miss the first shot you have the most at Ye Old Hunter's expense - Ye Old Hunter is all heart! Unlimited supply of extra ammo - NOW! EXTRA AMMO, Garribaldi's Greasy Growlers at only \$5.50 per 100. Wait until! Buy now - Today!

RED RUSSIAN REPEATING RIFLES "MN"

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

These were specially selected before being offered as ransom by a group of formerly fanatical deviants! And offered at a fair condition throughout - ready for years of faithful capitalist service. Take standard U.S. made 7.62MM ammo as well as Ye Old Hunter's Communist Cartridges at only \$7.50 per C. Don't pass up this one!

ORIGINAL MAUSER MODEL 71/84 "BIG 11"

Cal. 11MM Mauser Only \$9.95

When this one speaks there's thunder in the hills! Yes, once again Ye Old Hunter, the Baron of the arms trade, outwitted his crafty competitors, and cornered this tiny reject supply from its former warring owners! AND AT WHAT A BARGAIN PRICE!!!! Did you ever think you'd find this item at such a bargain? Neither did Ye Old Hunter, but when you gaze at it you'll understand why! Complete in every detail and fully functional down to the clouds of beautiful red (non-communist, of course) rust which rises into air with every stroke of the bolt. But at this bargain price Ye Old Hunter's actually PAYING you to enjoy yourself cleaning these lovely old arms - there's no telling what NRA condition grade YOU may be able to attain! Save NOW! Order today! These won't last long - they're being snapped UP fast! Save, Save, Save! Very Cleanable!

OLD HUNTER PUBLICATIONS: send 25¢ for story of America's most famed and most biggest Arms Merchant. Send 50¢ for 1st edition colored printing of America's amazing new automatic rifle - the Armato AR-10 - a world first from Ye Old Hunter's secret underground printing press. Send the stamp or coin for special Enfield story "The Finest Rifle in the World!" Order today.

REGISTERED DEALERS: Write on your official letterhead for new sensational discount lists.

ZE GUN OF ZE MONTH

CAL. .30-06 ONLY \$29.95

Near NEW Condition !!!!!!!!!

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

INCREDIBLE AMMO BARGAINS

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

6.5MM JAPANESE ISSUE.....\$5.50

At last! The first and only offering of this supremely desirable Japanese rifle and carbine cartridge brought back from the mysterious Truk naval base as part of a huge initial oriental purchase by Ye Old Hunter! A black belt holder in ammo bargains. 138 gr. FP, Brass cases!!!

6.5MM SWEDISH MAUSER.....\$5.50

Here it comes! The finest 6.5mm rifle cartridge ever developed and produced by the ever-living! Sweden to standards unsurpassed anywhere on the earth. A real speedie by any standards at a GIVEAWAY bargain price. 138 grain bullet, superb brass cases reloading with proper components for years to come!

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

Superb, accurate original 6.5mm Italian ball ammo for all those imported rifles. Packed in original 8 rd. clips ready to use in all those Italian 6.5 mm rifles and carbines. Cheap price ever offered for this superbly accurate appearing cartridges. Components also worth double!

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

Gorgeous original Winchester 7mm commercial export ammo for 20 rd. clips. Each round guaranteed with cracked neck to enable tool-less bullet pullin and effortless salvage. Order this "Pulvin Ammo" sensation today - salvage and venditor's lunatic attention!

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

Finest quality recent date issue ball ammo in ORIGINAL 6 rd. CLIPS at the lowest price ever offered. Formerly sold the clips alone for more than we sell the ammo loaded in them. 128-gr. original issue ball round. . . the first of the new "about cartridges" still among the finest.

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

Choice lot of Captured Communist cartridges picked up near alleged Soviet base in East Germany by Ye Old Hunter - the greatest globe girder of dem all, 130 Gr. FP issue loads. Order now!

7.65MM (.30) BELGIAN MAUSER.....\$5.50

The collectors' and shooters' find of the year at lowest price ever offered! The rarest and most desirable of Mauser rounds ever offered! Formerly sold at up to \$1 per round, so stock up now while supply lasts at this amazing price. Contemporary production 148 Gr. bullets. Tailor-made. Whalagawag.

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

Sensational low price on these superbly intact delightfully mellow Winchester 30-06's. Packed in original perfectly flawlessly preserved brass cases. 20 rd. Commercial original boxes. Manufactured in roaring 30's and 40's. 30's to delight the discerning sportsman's their unbelievable economy and discolored hues! Now! !!

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

Leave it to Ye Old Hunter to return triumphant with the greatest large rifle cartridge bargain in the world today. Beautiful original Commercial U. S. Krag 220 gr. FP loads at far less than even reloading components! Supply not in constant supply, so better order now to be sure! Manufactured by Winchester, Etc.

8MM GERMAN MAUSER ISSUE.....\$5.50

Beautiful original German issue MP1 Original boxes from Germany's greatest factories - RW - DWM. others. True 8.323 diameter bullets also worth more than your gold! Order this rare and desirable item. Pride of the Nazi Wehrmacht! Why pay more elsewhere?

8MM FRENCH LEBEL RIFLE.....\$5.50

Rarest of the rare are these true 8mm Lebel. Noted bronze 198 gr. boat tailed bullet assures fantastic long range accuracy in those 8mm French rifles and carbines. Clean up the world's most desirable 8mm Lebel requirements. This ammo giveaway just CANNOT last!!!

9MM F.N. STEYR PISTOL.....\$5.00

This amazing find makes possible this most satisfying offer of the century. Fabrique Nationale's superb smokeless powder ammo packed in original long boxes. Now!

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

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

11MM MAUSER RIFLE "Big 11" \$10.00

Don't be trapped into paying a fortune elsewhere for this magnificent German Mauser issue load. Standard 386 grain lead bullet makes ideal sporting target rifle. Those original Model 71/84 Mauser rifles you've been stealing of late. Ammo almost bears Bismark's finger-print! It's so old, but we have never had a better time to take so order today while the getting's good! Now!

.42 COLT BERDAN RIFLE.....\$10.00

Amazing but true! Ammo buyers and shooters' dream! Original .42 Colt Berdan cartridges in untouched rd. jackets from Tula arsenal. Paper patched 370 gr. bullets in like new condition at this unbelievable bargain. Today!

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

Who else but Ye Old Hunter would have found this treasure? Original Remington UMC loads in original boxes - 375 gr. lead bullet. Original original rd. jackets. Perfect for those shootable .43 Remington rolling blocks. Appears magnificent - shootability unguaranteed. Worth twice this price for components alone!

.44-40 WINCHESTER BY U.M.C.....\$5.00

Rare original UMC 217 Gr. Black Powder loads that will function in all modern guns as well as those obsolete old Colts and Winchester. Huge new shipment arrives this unprecedented low bargain price. Save now!

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

Ye Old Hunter now re-offers the famous sell-out of last year's superlative original Government Model 45-70 rounds. These are in astonishing original condition with 405 gr. full lead bullet. Order immediately while limited supply lasts. Last chance on intact original model .45-70 rounds. Black powder. Ammunition. Appears ready for the reloaders (save, save, save) as most primers indent with perfect accuracy and complete accuracy. And at this price you're ahead anyway! What can you lose?

ORIGINAL U. S. M1903 SPRINGFIELDS

These are very rare and ultimately desirable original low numbered receivers produced by U. S. Govt. during WWII with 03A3 latest type components but with original precision sights and low numbered receivers. An official version that's an absolute "Must" for all Springfield men. U. S. unfired condition throughout! ORDER NOW AND SAVE!

RARE BRITISH ENFIELDS - CAL. .303

SERVICE RIFLE ONLY \$14.95

Britain's Best! Her latest and finest Enfield Service rifle! The No. 4, incorporating all improvements and changes of 30 years of service requirements. Manufactured between 1905 & 1931. Still standing by Ye Old Hunter at special bargain prices and, in addition, all rifles are service from Buckingham Palace to Kuala Lumpur! Available now from Ye Old Hunter for only \$14.95 with boxed scope. Add \$8.00 for selected Enfield training rack, if available! Original No. 4 special prong bayonet only \$1.00 when ordered with rifle. DELIVERY NOW.

U. S. KRAGS! U. S. KRAGS! ONLY \$16.95 UP!!

CAL. .30-40!

1. Original U.S. Krag Short Rifle (Type "S")

2. Original U.S. Krag Long Rifle (Long Tom)

Greatest U. S. .30-40 Krag collection ever assembled and NOW at close out prices within the reach of ALL. While they last, these were but serviceable jewels are being liberally given away by Ye Old Hunter at special bargain prices and, in addition, all rifles are fortunately WITHOUT HANDGUARDS so you can admire the full length of that handsome full-tapered no-stop barrel! Ready for instant handguard installation "as is" or for conversion to a magnificent U. S. sporter as you while away many hours under ye ol' apple tree this spring. All rifles are otherwise completely complete and, in spite of long years of relentless service, clean-up-able for happy inaccurate shooting for years to come. Never again will such Krags be available at such prices so order today while they limited remains. Inventory still remains unshaken! Now! A rare and ultimately desirable U. S. Rifle - Seldom found in even the finest collections - These Krag short rifles were especially commercially prepared in the 1920's and very rare today. No U.S. collection complete without one and they can be bought from Ye Old Hunter for only \$17.95. Condition: superbly famous Krag "Long Tom" in firing condition, only \$16.95. Order now! Now! All rifles completely ready for a thorough cleaning. U.S. MATTAL COLLECTORS! Treat yourself to a complete "Hares Krag" collection, as above, for only \$14.89. Two Krags for less than the value of one! All base-condition specimens, not in jars!

PANCHO VILLA SPECIAL!!! CAL. 7MM REMINGTON ROLLING BLOCKS

ONLY 92¢ per lb.!!! Total Price Only \$8.28

Remingtons, Remingtons, whose got the Remington? Ye Old Hunter, of course, and at bargain giveaway prices within the reach of everyone. Look at this steal - original 7mm Remingtons in "gun crank condition" (see below) the perfect companion piece to the subtle 43's listed below at world's lowest price. You can almost see the finger prints which the former fanatical owners pressed into the wood as they realized they didn't care where their original indexable Remingtons with the incredible specimens offered elsewhere. Nobody but Nobody has Remingtons like these! Ask the man who says "NOT A PRICE ONLY \$28.95" - a price that's never cleaned up several and results are unbelievable. ALL RIFLES GUARANTEED COMPLETELY COMPLETE AND IN "GUN CRANK CONDITION" (Minimum order 9 lbs.). A few elite old Hunter picked glowing specimens at \$1.12 per lb. - or only \$10.08. Ye Old Hunter has now located a few original bayonets for these jewels at only \$1.95 each for "Long Tooth" type or for ultra-rare "Short Tooth" type. Give away these jewels in original indexable variety which gleamed about many revolutionary camp fires in days of yore. Pick your teeth on the Revolutionists' favorite, Condition Fair. Order now!

FAMED .43 ORIGINAL REM. ROLLING BLOCKS

Wt. 9 lbs. ONLY 62¢ per lb. Total Price Only \$5.58

UNBELIEVABLE??? YES, except from Ye Old Hunter. IT WOULD BE UNBELIEVABLE, if it were not for the fact that Ye Old Hunter has now located a few original indexable Remington rolling block rifles for only 62¢ per lb.!!! The most unbelievable gun giveaway in the U.S.A.!! FANTASTIC! NO, not from Ye Old Hunter. America's greatest gun bargain house. You can't buy prime hamburger at this price, so load up on this precedent shattering bargain NOW! Condition of all rifles is "gun crank" and some of these rifles are in fairly good condition. They are rusty and you can see light through the bore. You will need a little of that old elbow grease to restore these to "NRA FAIR condition", but, at this price, who cares? These "43" rifles are Remingtons. In this catalog available anywhere; these cracked with conquest in the hands of fanatical Latin hordes who had smuggled them out of the U. S. to gain power and glory for their lost causes. Finest rifle bargain in America for the historical crank, decorative crank, crank, shooting crank, hunting crank, salvaging crank. Action alone worth twice our give-away price! Rust and all! Total price only \$5.58. Give away these jewels in original indexable variety only \$1.00 each! Ye Old Hunter just made a cash purchase from the bankrupt stocks of the famous "Octopus Arms Associates" - "You can't make it any more" - "Our factories are everywhere" - before they collapsed due to over-extension and under-pricing and his loss is your gain. Buy now while the supply of this famous "Long Green Tooth" angular bayonet lasts. Supply exhaustible! Now!

AMERICA'S BIGGEST ARMS HOUSE! America's lowest prices! No connection with no other hunter nowhere - never! Alexandria, Va., Gun World, make such a name for themselves. Write today to CANADIAN BUYERS! Now Ye Old Canadian Hunter has established the Dominion's greatest arms center at P. O. Box 6218, Peterboro, Ontario, Add 20% to above prices. Write directly.

IMPORTANT! SALES TERMS AND FREE HISTORICAL INFORMATION: All guns and ammo packed FREE and shipped REXEXPRESS COLLECT F.O.B. Alexandria, Virginia. Send check or M.O. DO NOT SEND CASH. Sorry, NO COD'S. "Money's Worth or Money Back" guarantee. No returns. No exchanges. No refunds. Within 30 days in this East visit Ye Old Hunter's fantastic arms center located in historic Alexandria, THE GUN CAPITAL OF THE WORLD. World's Biggest Arms House - World's Lowest Prices. Ship from the East and Save. Save, Save!

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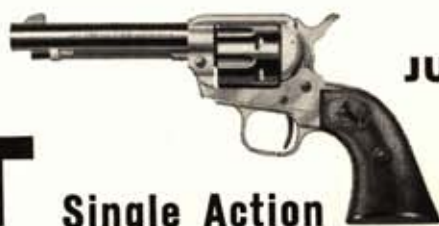


THE COLT THAT WON THE WEST

is winning the admiration of American shooters

One of the greatest handgun values ever to carry the famous Colt name, the new Frontier Scout .22 is descended from another famous Colt—the historic Single Action Army. It has the same lines as that trail-blazer . . . the same he-man fit and feel . . . plus the accuracy you've always wanted in a .22 . . . all for only \$49.50.

Look at the features: heat-treated steel barrel and cylinder . . . non-warping ebony stocks . . . frame-contained firing pin . . . full-formed loading gate . . . and *low cost* .22 short, long, and long-rifle shooting. See it at your Registered Colt Dealer's now. *Colt's Patent Fire Arms Manufacturing Co., Inc., Hartford 15, Conn.*



JUST \$49.50

Single Action

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Designed to correct critical eye relief problems. Can be used in either rearward or forward positions with standard height split rings of comparable diameter.

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Designed to accommodate scopes of large objective lens with diameter up to 2½".

See your Dealer or Gunsmith today
Folder on request. Give make and model of rifle.

REDFIELD GUNSIGHT CO.
1303 S. Clarkson St., Denver, Colo.



By **WALTER ROGERS**

Author, trapper, cowboy

RAISED in the Southwest with a gun on my hip, I grew up with the fast-action Winchester repeating rifle. My favorite is the Model 1892 lever rifle, and it was with great regret that I learned of the discontinuance of this once so popular model. In fifty years of experience as a cowboy, professional hunter, and trapper, I have worn out many rifles, but as long as one of the old Model 1892 remains, or parts are obtainable for them, I'll be using one. In the old .25-20 caliber, with the original 24" barrel cut off four inches, this is the most accurate, sweet-shooting rifle I have ever handled. It is still being used on my daily trap line in New Mexico. I could write reams and reams about this old gun, but reckon most of it would be laughed at by the moderns. Nevertheless, the old '92 is still my favorite.

MY FAVORITE GUN

By **FRANCIS SELL**

Noted Firearms Author

AS A HUNTER, I have two favorite rifles. One, a .348 M71 Winchester using a 200 grain bullet I carried as a timber rifle for deer and elk for years; still use it occasionally. My present favorite for all around shooting, from heavy cover to the more open deer and elk ranges, is a .300 Short Ackley Magnum. Here, again, I use a 200 grain bullet pushed at around 2700 feet per second for timber. For the more open ranges I favor a 180 grain bullet at around 3100 f.p.s. muzzle velocity. My present .300 SAM is stocked in beautiful myrtlewood. It carries a Redfield Sourdough front sight and a Cascade Snapshooter rear sight. For scope use I have it fitted with an Echo side mount. Generally, the iron sights are used in brush, with the scope in readiness for longer open ranges. Action is the improved Husqvarna Mauser, which I particularly like for a scope-sighted rifle.



TRIGGER TALK

JULY IS A MONTH Americans look forward to with beating hearts and thoughts of the deeds of our forefathers. Patriotic rallies, flag waving, characterize that first week. Often noted speechmakers rattle on for hours about the "Founding Fathers" and the "destiny" of the country. And then once in a great while some quiet, deeply sincere man with an humble earnestness arises from the multitude and with words simple and direct so expresses the feelings of a nation that his words, rather than the deeds of those men who died at Gettysburg are the things "long remembered." Yet Lincoln's talk to those dead men, Blue and Gray, in Pennsylvania many years ago expressed the sentiment which dominates our lives today, "that this nation, under God, shall have a new birth of freedom, and that government of the people, by the people, and for the people, shall not perish."

To that sentiment is this July issue of GUNS dedicated, with two stories. First, citizen-soldier gun-enthusiast Herb Erfurth appraises the M14, the new American rifle, heir to the mantle of the Kentucky Long Rifle and the American Tradition. Obscurely technical articles on the M14 have been published, but this is the first unofficial "gun crank" test of the new rifle to be made.

In the same July spirit is "Guns For A Nation Of Riflemen," but the title goes to the Swiss. How the Swiss are affected by the issue of their new rifle makes this a timely presentation.

As for "Who's Too Young To Shoot?"—sure, it's another kids-and-guns story. As Winchester's pro Herb Parsons says, "Show me a boy who likes to shoot, and I'll show you a good American." So if toddlers with stock-chopped single shots seem beneath your dignity, and you holler for more magnums, more elephants falling dead at the thunder blast of a double rifle, just remember your own cap-pistol days when you weaned over to real guns. Those six- to ten-year-olds are the key to future generations of enjoyment of guns and shooting.

Our cover story is one we're proud of. Rancher-gunsmith-writer Maxey in Texas came up with this one on cowboy guns, and touted the shotgun-rifle combo as a favorite with some. We thought the pitch of what cowboys were using today had a new slant. Then, going to press, we took a moment to leaf through Theodore Roosevelt's "Hunting Trips Of A Ranchman" (Scribners, 1885), and noted where TR usually took his rifle out except when near the ranch; then he took "the little ranch gun," a double 16 gauge with a .40-70 rifle barrel underneath!

Upcoming issues have some pretty unusual stuff laid out. One, we promised you a while ago—about guns that don't shoot cartridges. As any rocket engineer will tell you, a little hydrazine goes a long way, especially behind a bullet. You'll find this one in GUNS soon. And if you don't want to miss it, or any of the exciting, fact-packed different issues of GUNS, get your five bucks to our subscription department right away for the next twelve big issues.



THE COVER

The riders of our western range, whether by jeep or on horseback, have always been gun-fanciers, strongly opinionated as to the guns best suited to their needs. Our cover cowboy's rifle is not much like the traditional .30-30; but the .30-30 is still popular, as is the old-new Single Action.

Guns

FINEST IN THE FIREARMS FIELD

JULY, 1958

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GUNS magazine is published monthly at 8150 N. Central Park Avenue, Skokie, Illinois. Second class mail privileges authorized at Skokie, Illinois. SUBSCRIPTION: One year, \$5.00. Single copy 50c. CHANGE OF ADDRESS: Four weeks' notice required on all changes. Send old address as well as new. CONTRIBUTORS submitting manuscripts, photographs or drawings do so at their own risk. Material cannot be returned unless accompanied by sufficient postage. PAYMENT will be made at rates current at time of acceptance and will cover reproduction in any or all GUNS magazine editions. ADVERTISING RATES furnished on request.

AT LAST...

A BRAND NEW



HE-MAN'S .22

X-5 LIGHTNING

by famous Ithaca Gun Craftsmen, makers of finest in firearms since 1880

78 years of gun-making skill is yours in this spanking new king of the .22's. The same pride of craftsmanship that has always distinguished ITHACA from "just another gun" lives in this modern new .22.

You get these features at a low, low, price . . .

- Two interchangeable front sights, hairsplitting red "Ithaca Raybar" and Tack Driving black.
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- A real man's gun built along sturdy military combat lines, that you would expect to cost far more than it does. Strong, Rugged parts, built for use and abuse.
- Easiest take-down of any .22 you ever saw.



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Build your own Gun Cabinet or Rack. Six new and modern designs. Complete, simple, easy instructions. By special arrangement with the author you can have this \$1. booklet for only 50¢ coin (no stamps).

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Only \$54.95

ITHACA GUN COMPANY, Inc.
Dept. 53, ITHACA, N.Y.

GUNS in the NEWS

♦ Sarnac Lake, N. Y. It wasn't the handsome six-point buck deer that was brought down here that attracted the most attention. It was the hunter, Paul Lemieux. He's 94.

★ ★ ★

♦ Detroit, Mich. When three hoodlums tried to rob their store, the brothers Cassidy, Bill, 78, and Joe, 75, promptly went into action. Bill pitched into them, while Joe ran to a back room and got a shotgun. He fired one shot into the air and the would-be bandits fled empty-handed.

★ ★ ★

♦ Fort Leonard Wood, Mo. Wyatt Earp is learning to shoot a .45 automatic. He's a U. S. Army private, and a fourth cousin of the famed frontiersman whose name he bears. He's never handled a gun before.

★ ★ ★

♦ North Adams, Mass. A seasoned rabbit hunter, William Bushika has switched to bigger game and recently brought down with his rifle a buck deer. William is all of eight years old.

★ ★ ★

♦ Detroit, Mich. When he discovered two intruders looting his store, Earl Stan held them at bay by a pistol-in-the-pocket act while he called police. He revealed later that his hidden hand held a banana.

★ ★ ★

♦ Kirchgoens, Germany. "I guess we showed them that there's a lot more to being a woman than children, church and kitchen." That was the remark of wives of United States Army officers after they beat their husbands at a rifle match, the seven-woman team scoring 1893 points to their husbands' 1755.

★ ★ ★

♦ Riverdale, N. D. Jerry Wilson says it was sort of like a mirage dream . . . but he'll settle for it. Out hunting, he took quick aim when he spotted two birds rising from the reeds. But by the time he fired a whole flock had taken wing and his shotgun blast dropped six of 'em.

★ ★ ★

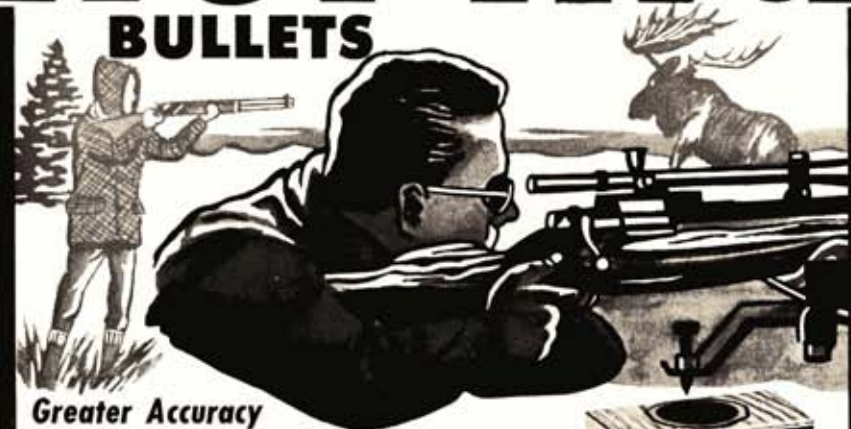
♦ Rakitno, Yugoslavia. Mirki Milicevic considered himself Rakitno's No. 1 hunter, had shot down any number of wolves, foxes, and other such wildlife but had never bagged a hare. Irrked by the jeers of villagers, he bare-handedly captured a hare as it sped from its burrow. He tied it to a tree with string, backed off and took careful aim with his gun. The bullet cut the string and the rabbit escaped.

★ ★ ★

♦ Jerome, Ariz. The ghost of this ghost town is armed. Pop Clanton, a nephew and only living relative of young Billy Clanton, who was killed in the notorious gunfight at O. K. Corral back in 1881, makes his home in these parts, going around with a six-shooter and gun belt full of bullets. Dressed in a mixture of old west badman, prospector and town marshal, Pop admits he never uses the gun and it's mostly just for show. Seems he just naturally likes the old west and he can get folks to listen to his old west yarns better all regaled up like this.

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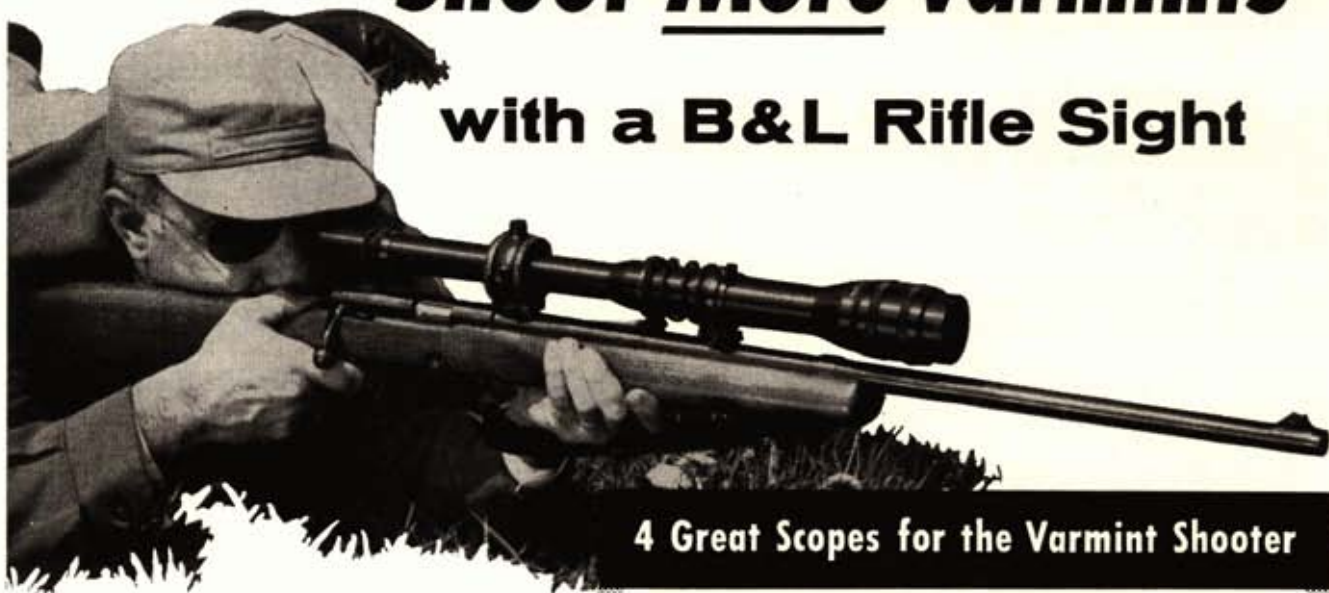


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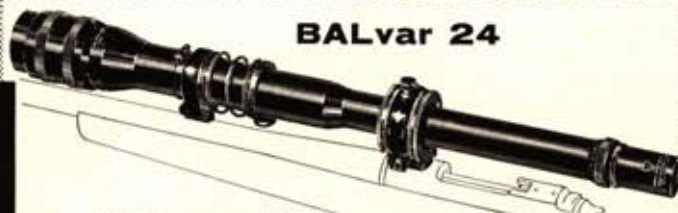
Fixed power, wide field 8X varmint sight. Rugged, fogproof construction. Cross-hair reticle, Balcote anti-reflection coating. \$85.

BALvar 8



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Variable power, 6X-24X, target-varmint sight. Tapered cross-hair reticle 1/8 minute at center. With mount \$160.



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.... FLASH

There's an exciting new item in the Sako line . . . a lightweight rifle built on a brand new action designed specifically for the medium length cartridges. Called the FORESTER, these rifles and actions reflect the superior design and manufacturing abilities of the Sako factory.

Write us for more complete information. Send 10c for our new illustrated catalog.

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WASHINGTON 22, D. C.



Elmer
Keith
says . . .

Don't Shoot Both Barrels

Many times we have heard old duck and goose hunters say they "gave 'em both barrels at once" in hopes of making a kill at extreme ranges. This is a fallacy and a mistake. It is virtually impossible to fire two gun locks by mechanical means such as two triggers at one and the same time. The end result is you get one pattern on point of aim and God only knows where the other one goes.

A doctor once asked me to test a very high grade Fox double barrel Magnum 12 bore with three inch cases, 1½ ounce loads. I first made sure the safety was ON. I then aimed at center of a 40" square of paper at 40 yards and pulled or squeezed the single trigger. The safety went forward and both barrels went off with one report. The gun rose high in the air and I backpedaled and turned over backward into an irrigation ditch full of cold mountain water.

We carefully examined the target paper, finding one good 75% pattern but no trace of the other barrel. Nothing daunted, again I loaded both barrels with 1½ ounces No. 4s and this time braced for the heavier than normal recoil. Again, with the safety on, I aimed at the center of a new sheet of paper and again pulled the trigger. Again the safety went forward and both barrels went off with one loud crack. This time too I walked backward, but not quite to the ditch. Again, we found but one pattern on the paper. A third trial showed like results. I tried it again on an old door at a few feet range, finding the two barrels several inches apart, one way below the other. I advised sending that gun back to the factory, which was done.

Next, I tried it with two-trigger double guns, trying to pull both triggers at the same time. The results were the same, one pattern on the board the other Allah knows where. Next, I broke out a Westley Richards double .450-400 with two triggers, aimed very carefully at a 200 yard A target at 200 yards, and fired both barrels as close together as I could pull the two triggers. One barrel registered in the 10" bullseye and the other kicked up dirt half way to the target. We tried this double-rifle business three times also and always with the same results. Now I think I know why W. D. M. Bell had such poor results on elephant when he wired two triggers of his .450-400 together so one pull would fire both barrels.

This is learning the hard way, but it proved to me at least that one had better aim and shoot one barrel and then the other as far as end results are concerned, and that trying to fire both barrels at once in

the hopes of getting two charges of shot or two bullets on the target is impossible except at muzzle-blast range.

Hunting Gun Slings

A light gunsling is a great help to the hunter on long hard days. A rifle slung over the shoulder takes the weight off the hands and arms. It is also very useful for making long, difficult shots from prone or sitting positions. A heavy, cumbersome Government harness-tug sling is not needed and such a heavy sling will sway to and fro if the rifle is mounted hastily for a quick running shot, thus spoiling the aim; but a light sling will not do so. Slings with hook adjustments are also prone to come unhooked when most needed and laced slings are bulky.

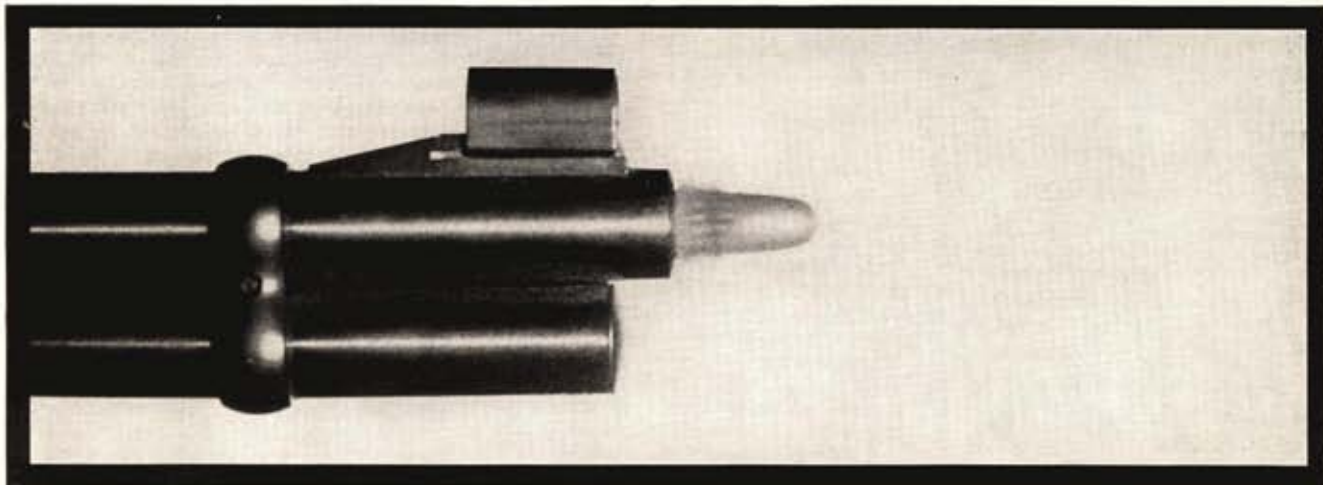
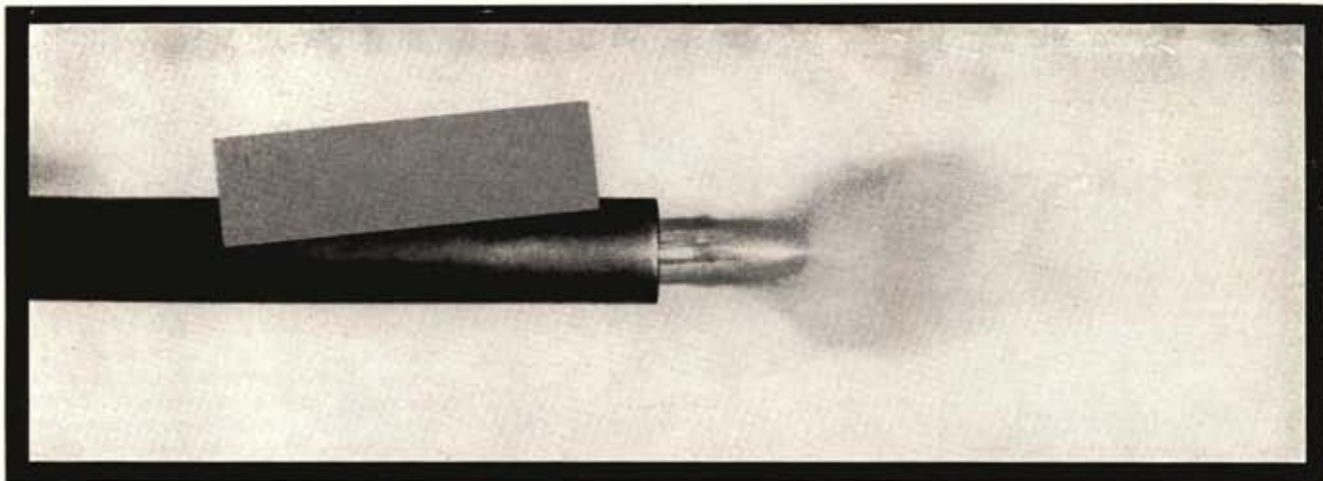
For a straight carrying strap and also for use as a hasty gunsling, the best I have used is the Williams Guide sling. This can be adjusted to carry the piece over the shoulder to best advantage and is then just right for a hasty sling for game shooting. The Hasty sling, while not quite as good as a regular arm loop sling, is very fast to get into and is a distinct aid to accurate shooting from either prone or sitting positions. This very narrow sling also beds down in the top of the shoulder and does not slip and slide on the shoulder. For short rifles, the right handed shooter should carry them muzzle down over left shoulder with left hand on the forestock. From this position, they can be whipped into aiming position instantly. This old European carrying position is very fast if practiced.

For those who prefer a loop for their arm and a regular shooting sling, a very good one is put out by Bob Brownell of Montezuma, Iowa. This ingenious latigo sling is also fairly narrow and so constructed that no hooks or laces are employed. It can be pulled tight with a jerk on one loop, or pulled out into a shooting sling with a quick pull on two layers of the sling. It is also easily adjusted for any carrying position by simply pulling the loops back and forth in the guides and connecting link. It is light enough that it will not sway back and forth when the rifle is hastily mounted.

.38 Special Target Loads

Dick Tonker, late of Montana, used to clean up the Montana state pistol matches with the Keith 160 grain hollow point backed by 3 grains of Bullseye for yard work and 2.7 grains Bullseye for 25 yard work from a King-improved Colt S.A. This year, Mr. J. Houver of Salmon, Idaho, cleaned up the grand aggregate at the Idaho Peace

(Continued on page 60)



Unretouched photos taken by P. H. White Laboratory, Bel Air, Md.

Proof—in 2 millionths of a second!

The amazing unretouched photos above—shot at two millionths of a second, just as the 30-30 bullets were emerging from the barrels—show one reason why Marlin's exclusive Micro-Groove Rifling* means an average 20-25% increase in accuracy.

Notice the little cloud ahead of the bullet on top. That's gas, and it "leaked" around the bullet fired from a conventional barrel. Escaping gas can "flip" the bullet as it leaves the

barrel, greatly reducing accuracy.

Now look at the bullet at the bottom. There's almost no gas ahead of it—proof that Micro-Groove Rifling cuts down on gas leakage and gives higher, more uniform muzzle velocities and flatter trajectories.

Notice, too, that with Micro-Groove Rifling there are 16 *shallow* grooves in the bullet's jacket, instead of four to six *deep* ones as with conventional rifling. Micro-Groove

Rifling's light grip doesn't pile up metal ridges that destroy balance. And Micro-Groove Rifling makes all Marlin rifle barrels easier to keep clean.

Whether you gun for trophies, 10-rings or tin cans, there's a Marlin model for you. Ask your gun dealer to help you choose—and be sure to see the famous Marlin Golden 39-A, illustrated below. It's America's finest .22 caliber sporting rifle!

*Patent applied for.

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Sight-in with SIERRAS—
the most dependable bullets
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accuracy, dependable
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instant mushrooming
without bullet
disintegration.



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OR GAME—
REMEMBER THE NAME...**



CROSSFIRE

LETTERS TO THE EDITOR

Askins Got What He Went After

Have been returned from Africa some days now and had a very successful safari. Was so extraordinarily successful I actually came in some days early because, having killed all the major game species, I was reduced to shooting stuff like bush buck. The other members of my party (there were four of us) remained behind to pick up elephant and buf which they lacked.

I went to Africa primarily to kill a lunger of an old bull elephant, and I was lucky enough to do just that! I got an old bull with 87 pounds of ivory on one side and 83 on the other. The tusks ran 6' 8" in length, with a girth of 20 inches. I also killed a good rhino, although his horn was not in a class with my elephant's ivory. Killed two buf; the second with 47-inch horns. (Anything over 40 inches is mighty good.) None of us killed lion; indeed I did not even see a male lion. All of us killed fine leopards.

I took over a new Winchester rifle, as yet unannounced, the .338 Magnum. With this fusee I killed a grand total of 19 critters, 13 of 'em with one shot each. The game ranged from the 50 pound Tommy gazelle to the 1800-pound eland. It was a fine demonstration of the power of the new cartridge.

Elmer Keith had just quitted Africa when I arrived. I did not get to see him. Bill Ruger, the sixshooter tycoon, was hunting at the same time I was there. Our trails crossed up in the Northern Frontier. Bill had had splendid success and, with three weeks left of his safari, needed only elephant and kudu.

Having hunted Indo-China and Africa in the past year, I am going next to Admiralty Island for a whack at one of those piddlin' small brown B'ar they have up there.

Colonel Charles Askins
Fort Sam Houston, Texas

Request Anticipated

I've enjoyed your magazine for a number of years now. I look forward to its appearance each month. In the issue of May 1955 you ran an article on rebuilding the double action variety of Colt revolver. Would it be feasible for you to have an article on rebuilding their single action (Peacemaker, Frontier, etc.?)

J. Howe

Kenosha, Wisconsin

We published the June (last) issue especially for you.—Editors.

How Old Is a Revolver?

In March GUNS, Mr. Clyde G. Howell says that while learning to shoot the handgun, he "used over 150,000 rounds of ammo." I wondered if that went through the one gun.

I asked our local chief of police, Leith

Dennis, and he tells me that for several years he kept an accurate record of the ammo fired through his personal Colt OM 22. Shortly after recording 500,000 rounds, his record was destroyed. Since then, he feels confident that he has fired an additional 200,000 rounds through this same gun. He still shoots it with good accuracy. He is a good gunsmith, occasionally takes it apart and gives it a thorough cleaning and lubricating. He has handled it carefully, cylinder has never been closed by slamming, or other misuse. His gun still has all original parts, no replacement of parts, no repairs.

I would like to read an authentic article on life of various handguns. Why not in GUNS? Surely, someone has some records on this subject.

Herman Lord
Smethport, Penna.

Clarification

The association of the modern Whitney pistol and Eli Whitney on the cover of your March issue and also on pages twelve and thirteen of this same issue conveys a strong but false impression that the modern Whitney is made by Whitney Company of one hundred years ago.

The facts, of course, are there is absolutely no connection between Eli Whitney or the old Whitney Armory and the present Whitney pistol which was not designed until 1950 or thereabouts while the Whitney Armory closed well over 75 years ago.

There are, undoubtedly, a great many of your readers who will not realize this situation unless you publish an explanation and I think it is your responsibility to both your readers and advertisers to clarify this situation promptly.

William B. Ruger
Sturm, Ruger & Co., Inc.
Southport, Conn.

The article stated (page 63) "... The Whitney Firearms Company ... is an entirely new endeavor with no direct business connection with the old Whitney armory in Hamden."—Editors.

The Gun That Killed Garfield

Can your author of "Guns That Killed Presidents" (April, 1955) (William B. Edwards) say with certainty that no one knows the serial number of the C. J. Guiteau gun? If the serial number of this gun is known, why was it not published?

John T. Duncan
College Station, Texas

The serial number of the Guiteau gun used in killing President Garfield is not known to us. The photo of the revolver in the Smithsonian Institution files shows, as stated in the story, a black wood handled, nickel plated "British Bulldog" of the Forehand & Wadsworth type. The gun has since

disappeared. Serial numbers do not appear on all bulldog revolvers. Such guns were made in .44 caliber in Britain, in the U.S., and in Germany and Belgium. In Belgium, the small .32 and .38 bulldog revolvers are known as "puppy."—Editors.

The Best Gun Is the Gun You Can Shoot

Read with much interest "Keith On Big Bullets" in GUNS for March. There is a lot of truth in some of the things Mr. Keith mentions in his article and it is very true that the .285 O.K.H., the .333 and the .400 Whelen are terrific killers. Trouble is, however, very few hunters can shoot them well enough to make up for the advantage they hold over lesser guns that most hunters can shoot well. It's not always the big bullets that do the job. A mighty good thing to remember is, the gun you can kill best with is the one you can shoot the best with, for after all, that is the all-important factor.

I have no argument with Keith's ideas and all I say is "more power to him." His big bores will kill and not do any more damage in causing bloodshot meat than some smaller and lower powered bullets. Even the common thutty-thutty will bloodshot both shoulders if a bullet is sent through them. For my part, I prefer a rifle that is more pleasant to shoot but will kill anything that walks or crawls in Idaho. I don't need any cannons to do it.

Chas. A. Evans
New Meadows, Idaho

Attention Canadians

I would like to obtain three German military weapons of World War II: an MG-42 7.92 machine carbine, an MG-42 7.92 LMG, and a 7.92 (Kurtz) "Volkssturm Geschuss" submachine carbine. I am not a collector but rather a student of modern automatic weapons design and development. These guns are wanted for study. It is preferable that they be obtained from Canada, but will buy from U.S. sources if necessary.

In Canada there is only very limited collecting of automatic weapons, and even less study and research. Functional weapons can be (in fact, must be) registered.

It is my opinion that there will be no startling firearms development of major proportions until something revolutionary in the way of propellants occurs. Ballistics faces similar restrictions to those which are slowing down rocketry development—namely, fuel. I am a mechanical and structural design craftsman and my dream is that I will find full-time employment in the field of automatic small arms design.

J. M. Stewart
P. O. Box No. 118
Iroquois Falls, Ontario

"... Not Old Women"

I heartily agree with the sentiments of Charles Pernice, printed by you on pages 10-11 of the April issue. Though a resident of Canada, I am a Yankee, registered at the U.S. Consulate here, and feel entitled therefore to send this note. If you get up the petition suggested by Pernice, please use this as authority to add my name to the list. It's high time gun laws were made by shooters and not old women.

Edward C. May
Edmonton, Alberta

Question . . . Answer . . .

Some years ago my sister (now dead) gave me an old .38 police revolver. Now my grandson is growing up and is very excited at the thought that he may get the gun. I know absolutely nothing about firearms and am a little afraid, because he might find the gun and do some damage. I understand you can sometimes sell these things to advantage, and I wondered what I should do?

Name withheld on Request
Skokie, Illinois

We have two suggestions to this one: first, sell the gun to a reliable dealer or collector whom you believe you can trust to give you top dollar. The second thing to do: take the money you get from the gun and put it into successive annual subscriptions to GUNS Magazine for that youngster. After he has read GUNS for three or four years, he'll have picked up the basic principles of gun handling and gun safety and may well have embarked on a fascinating life-long hobby. See letter below.—Editors.

. . . and Proof

I first became interested in guns when I was about ten years old. Ever since, I have become more and more interested. I now own quite a collection of guns. GUNS Magazine has certainly helped me acquire a lot of knowledge about guns. I have spent many hours reading it. Keep up the good work.

George Judy
Orangeburg, S. C.

Fast-draw Challenge

We have recently formed a Fast Draw Club in Redondo Beach, which stresses not only speed but accuracy. We have an electronic timing device which is based on impact from a wax bullet instead of concussion which is prevalent in most clubs. We have worked out with this timer enough to know that these so called "fast draw artists" couldn't draw in the speed they claim and still hit the broadside of a barn. Being dubious of their so-called claims, we invite anyone of them to come down and go against our timer, (which is calibrated in 1/100 of a second) if they aren't afraid to back up their claims.

Dick Madill
Don Holmquist
Redondo Beach, Calif.

Suggestion For Police

I think your police articles and particularly your police issue should be required reading for all city and county administrations. I have been Range Officer for the City of Bellefontaine Neighbors Police for the last six years. We have a population of 22,000 and border directly on St. Louis to our south. The St. Louis Police Department refuses to let any of the officers from the county municipalities shoot on their ranges, so we have worked out an arrangement with the City of Jennings to our west. We have no range and Jennings has no instructor, so we all get together to our mutual advantage. Chief A. S. Pruett of Bellefontaine and Chief John Obertz of Jennings both insist on their men being reasonably good shooters. We consider 70 X 100 at 50 feet qualification. There are probably many other towns where there is someone whose general knowledge of firearms would be of value to the local police.

George G. Hoernlein
St. Louis, Mo.


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SHELLEY BRAVERMAN
ATHENS 12, NEW YORK

Shooting THE NEW ARMY RIFLE



Shooting new Army automatic shoulder rifle, author Herb Erfurth gains "gun crank's" insight into weapon's balance, shooting qualities, design.



Rifle which will be obtained in quantity by 1960 has 20-shot box, 7.62 NATO (.308) caliber, and selector switch for full or semi automatic.

**NEW U.S. ARMY RIFLE HANDLES LIKE A
GOOD SHOTGUN, HOLDS WELL AS A
FULL AUTOMATIC, IS A TOP QUALITY
FIREARM FOR U. S. CITIZEN-SOLDIER**



M14 firing on full auto can be held down. Gun is also very comfortable to shoot semi automatic aimed fire.

By HERBERT J. ERFURTH

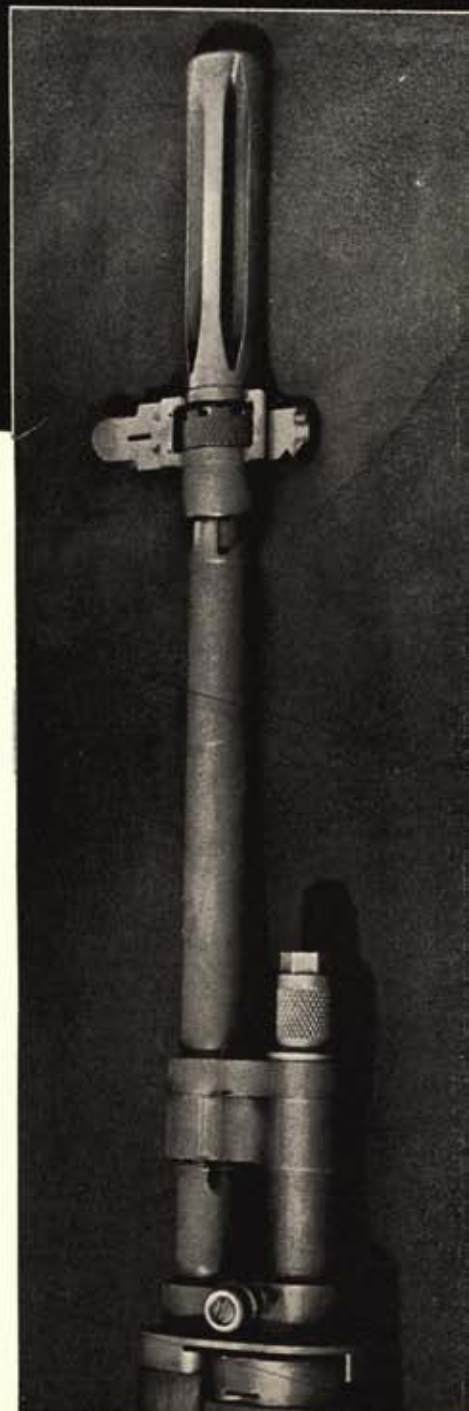
THE FAMILIAR GARAND STOCK settled into place against my shoulder and the sights swung up to center on the target. I took up the slack on the military trigger—and things began to happen. A torrent of .308 slugs began walking up the backstop, my shoulder felt as though I had leaned on an air hammer, and the air was full of flying dirt from the backstop dirt which was still falling long after the magazine was empty. The single, familiar, deep bark of the Garand had given way to the roar of the new M14, a new voice in the American Army.

The adoption of a new infantry rifle by the U.S. Army is usually accompanied by stir and fanfare. There are press showings, and everything is done to make guns available so sympathetic writers may tell the public that the choice has been a wise one. Yet getting an M14 rifle to test proved almost impossible for GUNS editors.

It being inconvenient for us to fly to Aberdeen or Springfield Armory, we sought to borrow a gun, paying all the shipping charges. Our request went through channels all the way to the Chief of Ordnance. It was acted on with finality, with "regrets that this office must disapprove your request."

Undaunted by the refusal, we finally were able to pick up an M14 in good condition, plus a conglomerate assortment of 7.62 NATO ball and tracer, some commercial .308 by Peters in 180 grain, some Norma .308, and a little Wraco 110 stuff. Thus equipped, we drove out to the range.

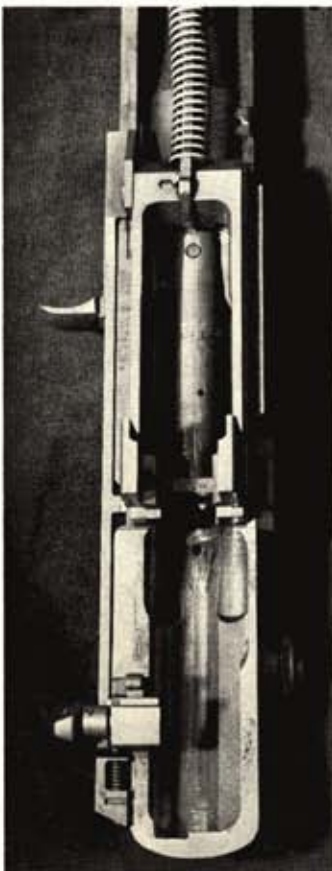
We were not really surprised when Ordnance showed disinterest in allowing us to examine and test fire the M14 locally here in Chicago. Memories of the scorching the Garand received in the press of 20 years ago, when it was first turned out, are no doubt painfully sharp; and the recent controversy over the



Flash suppressor on muzzle also reduces rise from kick. New gas piston is better than Garand's.



Tech editor Bill Edwards found M14 was moderately controllable on full auto but technique of controlled bursts requires intensive training with weapons.



Fire control lever and switch (receiver right rear) can be dismounted easily; receiver is much simpler than M1's. Gas cylinder group (above, right) uses expanding gas to work the action. Action, bolt, operating rod (below) are shorter than M1.





Familiar M1 lines, sight, are retained. Some M14's have side cuts, hole for scope mount; load by box or 5-, 10-shot clips.

Army's new rifle for citizen-soldier is shade longer, one to two pounds lighter, than obsolete semi-automatic M1 of World War II.



adoption of the British .280 rifle, the much publicized competition with the Browning FN, and the recent appearance of the Soviet Avtomat in large quantities, have made the whole Ordnance small-arms pot boil.

But, this time, Ordnance needn't have worried about adverse comment in the press. Gentlemen, we rise and take off our hats. We'll buy it. This is a real rifleman's rifle, a clean, sturdy, well balanced re-design of John Garand's original gun. If the rest of this article sounds like a love letter, it's because this is the kind of a gun anyone can fall for.

The M14 weighs about 8½ pounds, about a pound less than the Garand, a pound that makes all the difference in the world. The weight lies between the hands, where it should be for a fast-handling rifle. It is still no feather-weight, but it has a good "shotgunny" feel that will make it an easier rifle to handle for the rough and ready 200 yard work of the battlefield or, for that matter, in the big game field. As issued, with a five round magazine to replace the military 20 shot box, we would not feel a bit handicapped against any modern rifle on deer-class game.

The local 50 yard pistol range we fired on was too short for long range accuracy tests, but we function-fired both full-auto and semi-auto with .308 ball ammo and 110 and 180 grain sporting rounds. In 200 rounds, there was not a single failure to fire.

Twice, when firing 180 grain loads, the magazine follower failed to push the bolt return stop up into line with the bolt, and the bolt refused to stay open after the last shot. This was probably because of more violent action due to increased pressures in the heavier commercial load, or a slightly weak magazine spring, or very likely a combination of both. The Peters fired cases showed heavier

extractor marks and flatter primers than the military loads, indicating either softer brass or higher pressures. The gun and magazine functioned perfectly with ball ammo.

Our Army's new rifle strips down much like the Garand. The barrel and trigger group clamp onto the stock in the same way. The receiver is simplified by using a box magazine, lacking the front two "fingers" reaching down to enclose the old 8-shot clip.

The operating spring is housed in the operating rod, as in the Garand, but the rod has been shortened, strengthened, and de-kinked considerably. The shortening comes from tapping the gas from the barrel much closer to the breech, about 18" from the bolt face. The end of the rod bears against a floating piston, which rides in a cylinder under the barrel. The piston is of the controlled cut-off type. It bleeds a measured amount of gas from the bore, closes the tap hole, and then uses the expansion of the small portion contained in the hollow of the piston head to run the machinery. This gives a smooth controlled power stroke of nearly 1¾ inches, as opposed to the quick, sharp, 3/16" slap of the Garand rod. The Garand had to store its energy in the momentum of a heavy operating rod to translate this jab into unlocking force at the bolt handle. The new gas system is easier on the gun, has less mass of recoiling parts, seems to cause less kick.

Several shallow circular cuts in the surface of the piston head collect the carbon and powder fouling that would otherwise build up on the walls of the cylinder. The piston head, in closing the tap hole, also "wipes" the face of the tap hole, so function failure due to cylinder fouling, the major maintenance difficulty of the Garand, is practically at an end. Unfortunately, the front of the gas cylinder is closed by a plug (Continued on page 49)

Try a Short Gun for

ALMOST FORGOTTEN BULLPUP

WHICH HAS BARREL SET FLUSH IN STOCK IS FOUND

By HOWARD W. BAILEY

BY FEW SHOOTERS IN THE KNOW TO MAKE

LONG RANGE SHOTS POSSIBLE ON FAST MOVING GAME



Offhand shots at running game proved accuracy and "pointability" of Remington 550 bullpup with K4 scope in Weaver mounts. Author (above) has shot rabbits with it at 173 yards.

Long Range

THE RUNTY BULLPUP rifle a dozen years ago was all the rage. The unusual short rifle style was highly popular with the few who used them. But it was slow to spread its charm, apparently, and most stress was placed on shooting it prone. Had a few people discovered that its maximum advantage lies at the other end of the shooting spectrum, off-hand or standing position, it might still be with us as a standard form of firearm. Also, many of these rifles were designed to ease the handling of great weight. One .22 caliber rim fire target rifle was being increased from 18 to 21 pounds by a Los Angeles shooter who appeared to be already beyond his "best off hand weight." The armed forces reportedly experimented with a bullpup in connection with bullets travelling 5400 feet per second, in the 1940's. More recently a bullpup automatic rifle, the British EM-2, came close to being adopted by NATO. These trends suggest bullpups may not be outdated as military

designs. But the strange fact is so few shooters recognize the superiority of this compact, easy-balancing, fast-handling weapon, the bullpup, in off-hand shooting and for hunting. The best reasons may be human ignorance and fickleness. The bullpup, with its specially shaped stock, somewhat like the Olympic thumb hole style in most designs, is by many shooters assumed to be "expensive." The rifle action placed to the rear of the shooter's head is also unusual. Where bolt action designs are used, it is a little difficult to work the bolt handle until you become accustomed to its new location by your right ear instead of by your trigger finger. Yet outstanding accomplishments have been made by man in the past, to be allowed to fall into the discard for no good reason. The decline of the bullpup is a little like the decline of the Airedale dog—owners tired of its looks because they could not get their friends to accept them. Such reasons, plus higher costs than standard



Compact design of bullpups gives good barrel length for accuracy with short overall length. Kalispell, Montana, stocker L. H. Brown made these three. Top is .22-250 on Springfield, myrtlewood stock; middle is "international" M52 Winchester with Unertl 20X; bottom is .219 Wasp Mauser, 8X Hensoldt.



Pump action like Remington 760 may be converted to bullpup. Bailey wants to make one for coming African hunt.

factory-made guns, and the difficulty of getting custom gunmakers to attempt the unusual, are prime causes for lack of development.

But by using small scopes and low priced mounts, or raised iron sights, total cost can be less than \$100.00. As custom weapons go, the cost is not high. In the hunting weapon, speed of fire is important. With few exceptions, bolt actions are used in bullpup high powered rifles. These cannot be fired rapidly, since the bolt is further from the trigger. However, the pump action or any automatic action which does not demand a spring in the stock, can be used without sacrificing speed. Sam Johnson, a Fresno, California stockmaker, has made at least one bullpup from the Garand army rifle.

The Remington pump in .244 caliber should offer an excellent candidate for running or sitting game from jack-rabbit to antelope with minimum recoil in a truly high powered rifle.

Only short barreled arms gain maximum advantage from bullpup design, which increases the stabilizing effects of the shooter's head and neck weight, in addition to greater speed, easier carrying and less area exposed to the wind. The writer's present rifle is reduced to 22" and reduction to 20", if not 18", would likely be better. Federal law allows a barrel length of 16" in .22 caliber, 18" otherwise,

and such an arm would really be short in a bullpup. For police and military use, a total length weapon of 18" with a pistol length barrel is entirely possible with modern short scopes. A short weapon could easily be carried under the right arm pit by a strap over the shoulder. Such a weapon would constitute the fastest and most easily carried arm capable of long range accuracy.

Who was the first to use or design the bullpup? The whisper of the wind in the trees is as good an answer as any thus far. It is known that the colorful General Patton had an army rifle with a crude bullpup stock years ago.

My first introduction to the bullpup came in 1945 when I met the gunsmith, Doc Emmet Gray, in Wyoming. He had developed an arm for the use of the southwestern law enforcement officers at the time outlaw Cecil Barron was at large. Like all bullpups it was about one foot shorter than its equal in a conventional gun. This rifle was a .25-06, built on a Ross action. By running a rod forward from the bolt it worked well as a trombone pump gun. A 1x scope was the sight. It was hard to believe his tales of the advantages of the bullpup design for offhand shooting and running game. I watched him drop a small cottontail, with one shot through the chest, that was running so fast I didn't bother to bring my conventional automatic to my shoulder. I was sold on the idea (Continued on page 40)



Flashy-stocked bullpup in maple by Lenard Brownell uses Remington 721 action, long barrel, to get top accuracy from rest for varmint and target shooting. Breech has shield.



On firing line Border Patrol officers show form which has made them feared adversaries by criminals in a gun fight.

LET'S TEACH OUR COPS TO SHOOT

By BILL TONEY

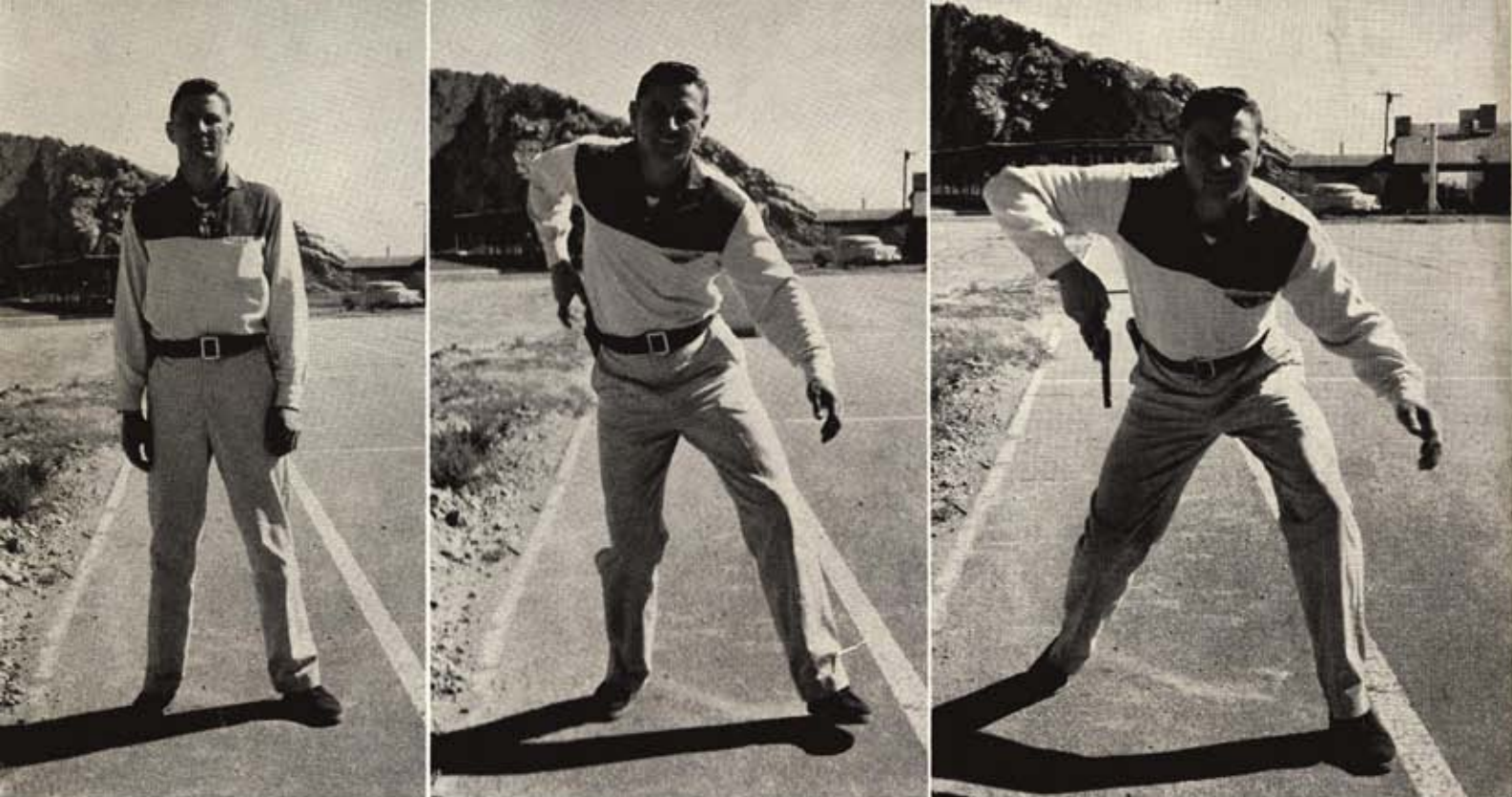
POLICE MARKSMANSHIP TRAINING COSTS MONEY, BUT IS A BARGAIN IN TERMS OF LIVES SAVED AND CRIME CONTROL

THE POLICEMAN, like the bullfighter, has his "moment of truth." It comes when he stands face to face with an armed criminal who is determined to kill him. His best hope for survival is superior marksmanship, which will stop the hostile action of the opponent before it can be completed. Years of training will be justified, if it saves your life. And gun training does save police lives wherever it is stressed. Statistics prove it.

Yet hundreds of good officers are still killed each year by criminal gunfire, although police have a tremendous advantage over crooks in the development of marksmanship. The lives of many of these men would be saved by improved programs of marksmanship training in police departments and agencies.

About the end of the Prohibition era, the Detroit police were losing one officer to criminal gunfire for every three hoodlums killed. Intensive marksmanship training produced a national championship pistol team with such individual greats as Al Shapiro, Maurice LaLonde, Harry Reeves (six times national pistol champion), and Al Hemming (who for 20 years has held the national centerfire pistol record over the National Match Course). Within ten years, another check showed that now only one officer was lost for every *eleven* criminals killed in gunfights. The marksmanship program was continued, and the most recent statistics show that now, for every Detroit policeman hit, 21 criminals bit the dust.

But even more important than that is the number of policemen who now never have to face gunfire, simply because the hoods know the cops are marksmen. The crook may not think straight, but he's not stupid; not when his life is at stake. Word gets around about how the police pistol team won another tournament, about how a police marksman picked off Tough Joey with one neat shot in the chest pocket—and Tough Joey's boys shy off from the man in blue with the pistol. The police gain confidence, their



Bob Gough of El Paso police demonstrates modern quick draw. 'Paso police were among last to give up Frontier Colts; Gough now uses current model S & W. Motions of draw are designed to give the officer protection and advantage of becoming a "moving target" from standstill in shoot-out.

prestige and their control over crime are improved, and the morale of the whole department, of law enforcement generally, is built up.

Marksmanship is doubly important to a policeman, because he must not only hit his target, he must avoid hitting innocent bystanders. He must stop the crook's gun before it kills him or some onlooker, and he must not let his own shots stray into accidental targets. Superior gun training pays off also in added safety for the public.

The police budget will limit the time and money that can be spent on a firearms program in any department, but even a minimum training course should include (but not be limited to) gun safety, range procedure, the construction, function, operation, and care of weapons, elementary ballistics, and shooting technique.

The need for complete safety training is obvious. The Border Patrol Academy has gone through 23 years with no injuries from unintentional discharges on target ranges. Many other agencies may have been just as fortunate. But police officers everywhere still have too many accidents on duty and in their homes. Safety train-

ing should eliminate these tragedies.

Range procedures must be taught in order that the class may proceed smoothly, safely, rapidly, and efficiently. And the shooter must understand the mechanics and operation of a weapon if he is to know how to get the most from it, how to avoid or clear failures and malfunctions, and how to care for the weapon to insure its greatest effectiveness. Similarly, at least an elementary knowledge of practical ballistics helps the officer to understand the capabilities and limitations of his arm and enables him to use it to the greatest advantage.

Shooting technique is a must. A ballistics expert who cannot shoot is of little help in a gunfight; he must be taught. "Practice is all it takes," is a great fallacy. Certainly it takes practice, but practice won't cure what you're doing wrong. At the 1957 National Matches, a panel of seven top shooters were asked how much they practiced. Their answers surprised the crowd. It appeared that they practiced less than many of the men they beat. Why? Difference in technique. The top guns coupled know-how with practice.

Know-how can be taught, to a

greater or lesser degree, depending on the budget. The briefest form of instruction would be a few hours of lecture and conference by a competent instructor. If the department can possibly afford it, the program should be extended to about 100 hours of initial training, during which about 500 rounds of pistol ammunition per man are used, plus the time and ammunition expended in rifle, sub-machine gun, and shotgun training. Such a program costs money, but it pays in the long run—in lives saved and in a lower crime toll of taxpayers' dollars.

Regardless of the extent of the program selected by the department, there should be a minimum marksmanship qualification requirement which every officer must meet. The requirements to be met must be commensurate with the training and opportunity accorded the trainee. The man who has been exposed to a one-hour lecture and given ten rounds of slow fire on the target range can not be expected to shoot as well as the man who has had 100 hours of training including 500 rounds of range firing. After the initial training, periodic firing for qualification maintains interest and



Pistol factories offer special aids for training police. Wall chart aids officer in training classes to understand function of gun.

provides a check on the progress of the men. It prevents the loss of proficiency through lack of practice and enables training to be continued at a higher level. Annual qualification firing is better than nothing, but only a little better. Monthly and quarterly qualifications are the choice of most wide awake departments. Range practice should be held as frequently as schedules and budgets permit, either on duty time or voluntary off-duty status. It is easier on the budget for the men to practice in off-duty status. But they are more likely to exert themselves to accomplish proficiency when they are on duty status. A satisfactory compromise in many cases is the granting of overtime duty status for range practice. Worthwhile also is the granting of honor status for good shooting. The officer may prefer more pay, but badges officially awarded to proficient police marksmen are an incentive to officers to practice, even if it means doing it on their own time.

Teaching proper shooting technique requires a good instructor. The ideal prospect would be a highly skilled marksman endowed with natural aptitude for and highly trained in the techniques of instruction. Such men are not always (Continued on page 52)



Essential to good training is a place to train. Budgets which do not provide adequate firing ranges are poor economy in the long run, giving taxpayers poorly trained police protection.



Typical cowboy guns in author's survey of Texas and New Mexico run from old Winchester of '94 and '95 type (top) to new bolt rifles like J. C. Higgins .270 with 4X Scope. M1 carbines are also popular for busting antelope, varmints from saddle. Big single-action handguns predominate among ranchers.

Shotgun-rifle combo is touted by author as ideal saddle gun for variety of small, big game.

"COWBOY, WHAT'S YOUR GUN?"

By RICHARD ELTON MAXEY

**SINGLE-ACTIONS AND .30-30'S STILL RUB AGAINST MANY
A LEVI-CLAD LEG IN TODAY'S WEST, BUT
SO DO A LOT OF VERY DIFFERENT, VERY MODERN GUNS.
LIKE ALL GUN BUGS, THE COWBOY IS A NON-CONFORMIST**



Shooting from horseback is not lost art among cowboys. Flite-King .22 brings fast smallbore firepower in today's great "cattle war" against jackrabbits, prairie dogs, and other unwanted invaders.

ACCORDING TO THE MOVIES and some western writers, the only guns the old-time cowboy ever had, ever wanted, or ever knew how to shoot were the Colt Single Action and the levered .30-30. Let's get it settled right here and now that this just ain't so. A lot of guns played their parts in the winning of the West, and a lot of men knew how to shoot them.

So when I started out to run down some answers to the question, "What guns do cowboys use today?" I expected something considerably less than a unanimity of opinion. Even with that expectation, some of the guns I found surprised me. For today, even as in the century that preceded this one, cowboys are men of widely varied patterns. Men who haven't been able, over all these years, to agree on the pronunciation of the name of the little animal at which they expend a fair share of their ammunition, the highly

unpopular coyote, are not likely to agree on any one rifle or any one pistol. They do agree, however, that the coyote—whether you call him "kye-oat" or "coy-o-tay"—comes two-legged as well as four and is a fair and sporting target in either variety.

I found plenty of Colt Single Actions, plenty of lever action .30-30's. After all, there's such a thing as tradition, such a thing as habit, such a thing as inherited beliefs—and inherited guns. After all, too, these guns have proved themselves in a long, hard school of experience. They get the job done. It's pretty hard to beat a slab-flat lever action carbine for convenience in a saddle scabbard; and these guns, in the "modern" .30-30 or the calibers that came earlier, have probably killed more game, of all shapes, sizes, and varieties this side of Africa, than any other weapon since the bow and arrow. In the hands of these



Corner-stone western gun is Winchester M94 lever action saddle carbine, all-time favorite of western outdoorsmen.

Saddle scabbard cut for bolt holds Czech Brno 7mm when riding range. Many cowboys like high-power rifles.



men who know them, they're plenty of gun; they'll "do to ride the river with." And they are still quite probably the most-used guns in the West. But they're not alone; far from it.

I was talking about guns with Frank Cabeza de Baca and his top hand, Tomias, on the Gallegos Ranch in New Mexico. Frank is a direct descendant of Alvar Nuñez, who added "Cabeza de Vaca" to his name when the king of Spain gave him a coat of arms bearing the "head of a cow." Alvar Nuñez Cabeza de Vaca was one of the very first white men to set foot in what is now our great Southwest, and his name is a proud one. Gallegos Ranch is a good-sized chunk of New Mexico, once totalling some 300,-

000 acres, which was established in 1870 when getting along with the Indians was an everyday problem.

Frank de Baca is a real cowboy, born and raised on a ranch where the sun both rises and sets on land that either belongs to him or belonged to his ancestors, a man who has hunted in the west since he was big enough to tote a gun. His choice of hunting weapons is a model 95 lever action Winchester rifle taking the .30-40 Krag cartridge. This gun is handy, powerful, accurate. With any decently placed shot it will take any game this side of Africa. It carries well on a horse or in a Jeep, and the recoil is reasonable. For a man like Frank it fills the bill.

Tomias, a top hand and a man of long experience in

a land where a gun is a tool, packs a Model 94 Winchester .30-30 in his saddle scabbard.

So we start with the obvious. These men, as typical of the West as beans are of Boston, carry the guns of the western legend. But in this article we are not trying to prove that one gun is better than another, nor that any one caliber, action, or brand name is superior to another. We are only trying to discover what guns real life cowboys are using today. And these are only two men among the many who still live practically their whole lives within shooting distance of wild game. Come with me further into the mountains of New Mexico for a visit with Slim Barkley.

When I first saw Slim he was squatting beside a camp fire on the banks of a mountain stream. When I approached his camp and he arose to greet me, I thought for a moment that I was looking at a pine tree with boots and sombrero. Slim is six-feet-four *without* boots and hat, and this is tall-in-the-saddle in any man's country.

When the talk got around to guns and hunting, Slim allowed he didn't know much about guns, except how to shoot 'em. In other words he is not a gun crank or hand-loader, but has used guns as a matter of course all his life, and he usually manages to hit what he aims at.

Slim is the sort of man to whom a gun is merely a tool. The west has many men with this same attitude. As they grow from boyhood to manhood there is the ever familiar sight of Dad's old gun, at your feet in the buckboard, under your knee in the saddle, or standing in the corner of the room you're in, always ready to go. The gun may not be capable of what it is usually sighted-in on, but the game it's aimed at will probably be hanging up to cool off before night fall.

A modern cowboy like Slim Barkley chooses a gun for

one or both of two reasons; availability and suitability. When going after deer he might take anything from a .30-30 to the latest bolt action creation. It would just not make him a whole lot of difference. He would not want a gun with less power than the .30-30, and would not think about one with greater power than the .30-06. It might even be an old 8 mm Mauser brought back by an uncle from world war one. Whatever the caliber or action, he would take it out and fire it offhand a few times at something about 150 yards away. If he hit the object he would take that gun deer hunting and get himself a nice buck.

If Slim were going after antelope he would not expect a low-power lever action rifle to do the job, but would look around for a flat shooting rifle, probably a .270, and might even have a good scope sight mounted on it.

But cowboys are an individualistic breed. If they were not they probably would not have become cowboys in the first place, and the more one delves into their choice of firearms the more individualistic they seem.

For instance, take Gordon, a Texas cowboy of my acquaintance, who swears by the over-under combination shotgun-rifle for general use while riding the range. Gordon is foreman on a large ranch near Lubbock, in the section of the country known as the South Plains of Texas. He is a cowboy who knows his guns. He has shot the traditional western guns all his life, and while in the Marine Corp during WW II he qualified as expert with both the M1 Garand and the Army .45 pistol. He also had occasion to fire several thousand rounds from full-automatic weapons in the general direction of two-legged targets.

We were sitting on the ranch house porch late one evening a few weeks ago, when (Continued on page 54)

Top hand Tomias swears by .30-30 lever-action saddle Winchester which he says is "fine gun for Vaquero."



Range owner's rifles are racked by chronograph in his office.



A RANGE COULD MAKE YOU

Firing points for big bore (right) and smallbore are roofed in cheap, cool aluminum to protect riflemen from the California sun.



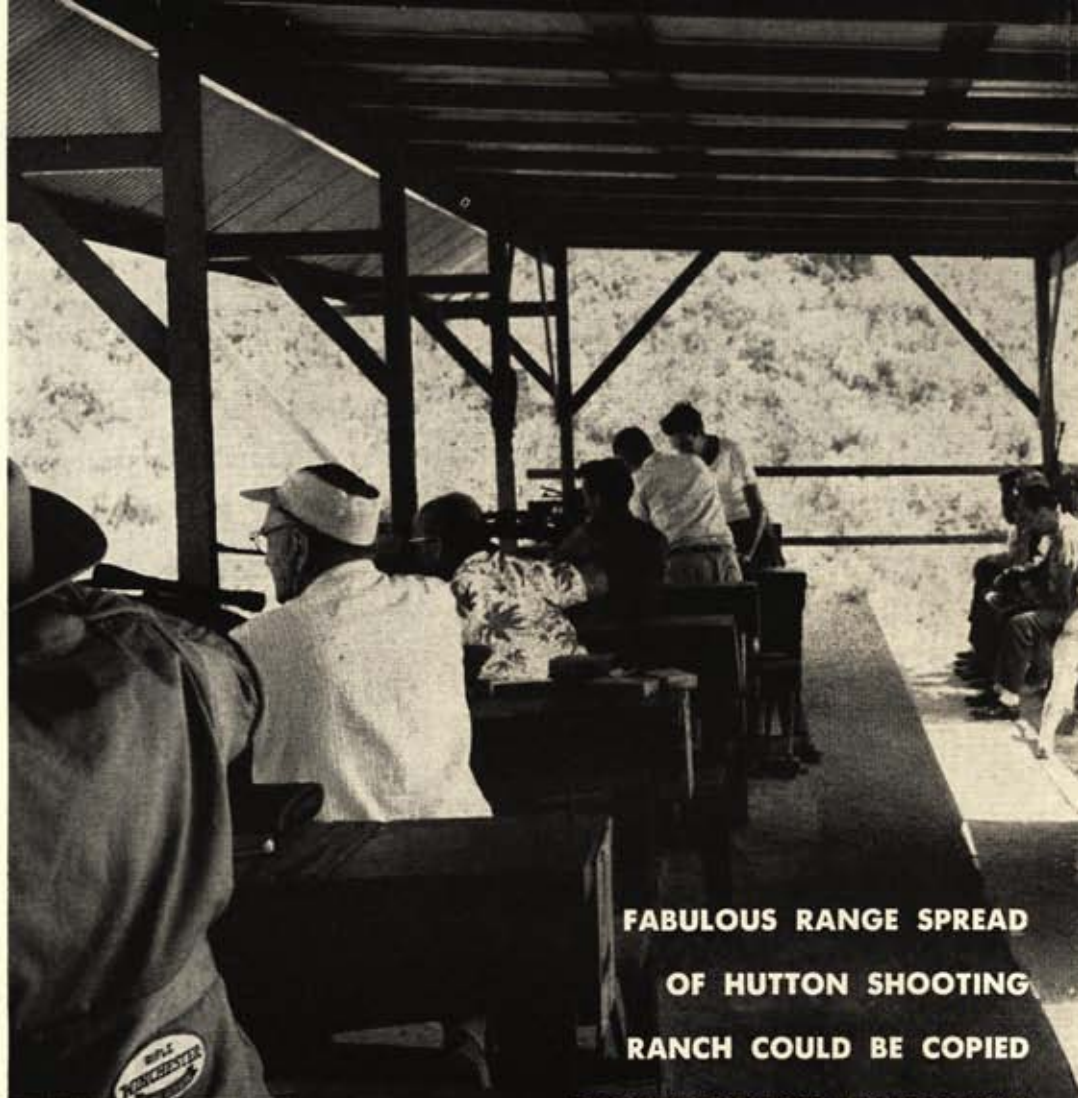
Shooters at benches and shooters who are waiting their turns prove rifle ranch is steady business. Safety is stressed at all times.

HAVE
FUN
WITH
GUNS

<

In privacy of office, Hutton can develop handloads and do shooting tests without interruption. Chronograph is near rifle pedestal.

INDEPENDENT



FABULOUS RANGE SPREAD
OF HUTTON SHOOTING
RANCH COULD BE COPIED
PROFITABLY FOR ENJOYMENT
BY SHOOTERS ANYWHERE

By EUGENE M. HANSON

PERHAPS THE MOST FABULOUS thing about the fabulous Hutton Rifle Ranch in Topanga Canyon, California, is that it is a profit-making enterprise that could be reproduced almost anywhere in America. Bob Hutton has made a successful commercial venture out of providing "country club quality" facilities for shooters in his area—out of helping hunters sight in their rifles—and out of teaching marksmanship and gun safety. The fact that Hutton caters to the shooting needs of some 8,000 customers a year is indicative of the commercial possibilities which lie, mostly hidden, in the shooting interest which exists in an average American community.

Like any other business, the success of Hutton's shooting venture sprang primarily from what Hutton could and would offer the prospective customer. This is not one of those fortuitous things of a business which springs up "like Topsy" out of a lucky location at a traffic crossroads.

Hutton's "ranch" is at the far end of a winding mountain road, part of it only one lane wide, 25 miles from Los Angeles. For years, the road was only a dirt trail, much like those which hunters encounter when they go deep into the back country after game. Only recently has the road boasted the blacktop surface which makes it somewhat less of an adventure. But it is well traveled. Shooting is like building mousetraps: show a shooter where he can get better shooting and he'll beat a path to it, even through mountains.

The first thing you see on arriving at the rifle ranch is a paved parking lot, with angle parking indicated by white lines. The lot is marked to make room for as many cars as possible, and if you are there more than a short while, you'll see that this is a business necessity . . . The second thing you will see is a prominent sign which orders you to "OPEN BOLTS—KEEP MUZZLES UP." The sign



Offering facilities for young shooters is considered to be very important by Hutton. Smallbore range is great attraction for boys. Many girls enjoy rifle shooting, too.



Hutton, nationally known firearms expert, offers suggestion to shooters on developing loads without charge.



All targets on all ranges are changed (left) at one time so shooters can fire without frequent interruptions. At Hutton Rifle Ranch office all shooters register (above), are then assigned firing point, with coaches if they wish.

means just what it says for Hutton's Rifle Ranch and Hutton's philosophy of guns places strong emphasis on the importance of safety rules.

To the right of the parking lot, at a lower elevation in the very bottom of a steep-sided, narrow gully, is the pistol range. It has been set up in such fashion that it would not be possible for a stray bullet to escape. Facing the parking lot at a slight elevation is the shaded firing line reserved mostly for smallbore rifle shooters and up the hill a few yards is another shaded firing line for high power rifles. Heat-reflecting aluminum roofing covers the shooting bays, providing comfort even on the hottest days as well as shelter from rain.

A sign directs the visitor along a path to the range office for registration. The office actually is a ballistics laboratory. It has two windows facing toward the target area, one for chronograph use and the other to sight in such rifles as may need close testing, or for Hutton's own use in long range shooting. Another wide window opens over a counter where registrations are taken and from which all shooters on the high-power firing line can be watched closely.

Before he is allowed to register, the newcomer must read the range rules, posted beside the window, which are concerned mostly with safety factors. He will do well to read these rules carefully, for they are strictly enforced.

There are ten bench rests on the big-bore range, built exactly as recommended by the National Bench Rest Shooters Association for bench rest matches, on the high power line. Between the benches and at each end of the shelter there is room for position shooting.

A spotting scope is provided for each shooter. NRA targets are (Continued on page 55)



First-day buck downed by Bell's favorite FN Mauser chambered by local gunsmith Al Wardrop for 7x61 S & H; 4X Kollmorgen, Redfield Jr., mount; 160 Sierras.

PICK the GUN THAT SERVES YOU BEST

**ARE YOUR PRESENT GUNS THE RIGHT ONES? OR DOES
YOUR BATTERY NEED UP-DATING?**

By BOB BELL

THE SHOOTING GAME has fascination: once a fellow gets started, he rarely gives it up. Many start plinking with an air rifle or .22 as youngsters, then take naturally to hunting with both shotgun and rifle. Many avidly follow target work, small and big bore. If they get started in shooting under the auspices of a rifle club, perhaps the targets come first, hunting second. But whether hunters or target fans, they're shooters, and shooters acquire guns. How they acquire them would fill a book with anecdotes, but *why* they acquire them is something which every shooter—target man or hunter—should ask himself. The reasons behind one's choice of a personal battery, if re-examined, may lead to changes. You sell one gun, buy another, end up with more fun, greater success hunting, greater prowess on the range.

When a hunter starts gathering guns, he does it with the discrimination of a pack rat. If he can swing the deal, he'll take anything that will kick a bullet

out of the muzzle, and sometimes incomplete relics that won't even do that. This kind of shooter will often have one or two dozen rifles on the rack, but when deer season opens he has nothing ready and suitable for use. "I can hang it on the wall and look at it," is the stock answer to anyone silly enough to ask him why he brought home some exceptionally useless item, and what kind of reply can be made to that? In some cases this is reason enough for buying a gun, though it seems to me that following some sort of system is more apt to bring desirable results.

In my own case, I want guns to shoot. I can admire someone's collection of beautiful antique weapons, but I personally wouldn't give a plugged peso for the best of the lot. I like to hunt. And I go with the intention of killing something—not to admire superb scenery or to ponder philosophical thoughts; I can do that all year round, but in hunting season I want to bring home some meat or a trophy. Therefore, I want the gun which is best suited for me and for the job at hand. The primary purpose; in fact, the only purpose, of this gun is to kill game in the quickest, most humane way possible.

Some guns and cartridges are more suitable to certain game and terrain than others. No one outfit ever made is perfect for everything. That being the case, if a man hunts different kinds of game in different areas, he needs more than one rifle. If he's a target shooter, that just complicates matters further.

Studying my own shooting, I find that I do a little small-bore paper-punching, a lot of varmint shooting, small game hunting of the upland variety, and big game hunting of various kinds. Through the years I've owned scores of guns, but most of them just came and went; the ones that stayed are those that form the small, indispensable core of shooting irons which serve a definite purpose in the above types of shooting. The only time one of these changes is when something apparently better comes along to fill a niche.

While in high school, a local rifle club stimulated my interest in small-bore shooting. Belonging to it gave me the opportunity to shoot various types of target rifles belonging to older members, before making up my mind what type I wanted. Most of these were good rifles and the higher grade models were excellent. I finally settled on a heavy barrel 52 Winchester. Eventually it lost the front five inches of barrel and gained a cheek-piece stock and an 18 power Unertl scope. Now it suits me. A real small bore fiend would probably find numerous ways of improving it, but as it is it shoots closer than I can hold indoors. Outdoors, the wind seems to be the joker that fouls up the scores, not a minute difference in pure accuracy. Besides, it's only a gun for poking holes in paper, which is a secondary and minor reason for burning powder—just a way of getting some shooting when there's nothing to hunt.

In the realm of varmint hunting, which is the most exacting in its demands on equipment, a shooter has to ask himself what ranges he's going to be shooting over, and what kind of shooting he'll be doing. If in the east, where the crow and woodchuck are the only numerous targets, chances are he can get shooting at any range he wants and all of it will be at motionless targets. Since most of the travelling can be done by car, the rifle's weight is unimportant and he can take advantage of the slightly better accuracy usually found in bull barrels and target type scopes with their micrometer mounts. Probably 99 per cent of the shots will be taken from some sort of a rest or prone



with sling. If they're close enough so you can hit 'em regularly from offhand, they're too close to shoot at. Blasting an unsuspecting chuck at 100 yards with an outfit that will give half-inch groups at that distance isn't much to brag about. Better to pass 'em up, or back off a ways.

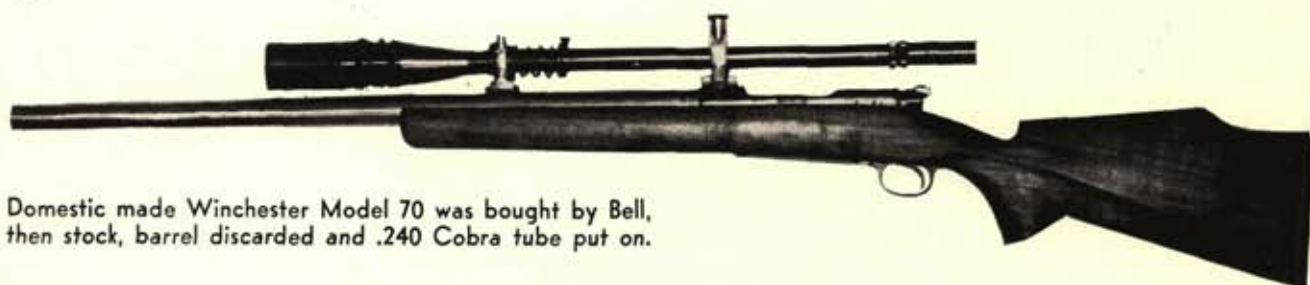
In the east, on chucks and crows, the little .222 Remington is a fine cartridge, especially for a beginner. It is extremely accurate and has a trajectory suitable for use over about 250 yards, which will take care of most ordinary shooting. When you get beyond this, higher velocity loads, with their resultant flatter trajectory, are more desirable. The .220 Swift, .243 Winchester, .244 Remington, and .257 Roberts are all suitable. These are all factory loads. In wildcats, the .219 Improved Zipper, .219 Donaldson, .22-250, 6 mm Cobra, based on the Swift case, and the 6 mm Rockchucker, based on the .257 case, are all in the same class, but all must be handloaded, of course. In some ways the older .257 is the best of the bunch; it's too bad it never got the publicity it deserved. Anyone who has a good .257 can shoot in damn fast company without feeling out of place.

Any of these loads will make it rough on chucks and coyotes up to a quarter of a mile or so, when conditions are right, and occasionally you'll collect one even further. My present bull-barrel Cobra will kick an 85 grain spitzer slug out at 3500 f.s. or thereabouts, and this is about typical of this class of loads, except that the .22's are limited to lighter bullets, the 55 grain spitzer being the usual choice.

In the west, where varmints may be either of the "stand still" type, such as ground squirrels, prairie dogs, crows, chucks, or magpies, or coyotes, which may really be in motion, rifles tend to run lighter in weight, since hunters out there seem to do more walking than the auto-bound easterners. For coyotes, scopes tend to run to the hunting types, in four to six power, generally, and the usual sport-



Imported Browning "Sweet-16" suits author's needs for upland bird shooting. Classic fusil is improved cylinder.



Domestic made Winchester Model 70 was bought by Bell, then stock, barrel discarded and .240 Cobra tube put on.

ing weight hunting rifle provides all the accuracy the average shooter can utilize from sitting or standing positions. For the other targets out there, guns could duplicate those used in the east. While battling the breeze one afternoon with Vernon Bostick, shooter and gun-writer of Albuquerque, he showed me one of his pet varmint rifles—a heavy barreled single shot Winchester chambered for the wildcat .25 Krag case and topped off with a high-grade target scope. With this kind of outfit he'd look right at home busting chucks in a Maryland pasture.

The nice thing about varmint shooting, you can do a lot

of it the year 'round. And when not hunting, you can be testing different loads on the bench. With this much shooting, a barrel doesn't last too long, so this provides a good reason for trying different calibers or case designs!

When it comes to upland hunting, I've found it doesn't seem to matter too much whether I use a 12, 16, or 20 gauge. And I rather doubt if the choke or shot size, within reason, make any great difference to the average shooter. Theoretically they do, and the experts keep insisting they do, but among the gang I hunt with you can find practically any gauge, choke (Continued on page 42)



For .22 Bell chose New Haven-made Winchester, Unertl glass, restocked.

Belgian actioned 7x61 has a high comb which writer needed for sights.



For slug-fest with bear Bell's gun is U.S.-made Winchester M71 .348.

Guns for



Newest SIG Assault Rifle M55 is being made for Swiss army, has been tried by civilian marksmen.



Elite mountain troops, skilled in scaling Alps, carry straight pull Karbiner M1931 rifles in Swiss 7.5 mm caliber.

SWITZERLAND, SAFE FROM WAR THROUGH 600 YEARS, PRESERVES PEACE BY TRAINING ITS CIVILIANS TO SHOOT THE WEAPONS THEY WOULD USE IN WAR

By WILLIAM B. EDWARDS

ON TOP OF THE WORLD, Switzerland has stood safe from war through six centuries of prosperity. A rich land, the five million Swiss have two things to thank for their security. First, their mountains channel attack by ground forces into several well-defended routes. Second, is their historic strength against invasion. Switzerland, the oldest "nation of riflemen," would be too tough to take. And today there is a switch on the slogan, for the Swiss are becoming a nation of *automatic* riflemen. Magazine-fed "AM-55" automatic rifles of light machine gun class are being procured in quantity for each Swiss hamlet and home, and civilians are being trained in their use.

The AM 55, made by the private Swiss Industrial Company at Neuhausen, is a light assault rifle. In the hands of the Swiss citizen-soldier, it will replace the famous short Schmidt-Rubin "Karbiner M1931," and the stop-gap automatic rifle SK-46, which was basically a gas-operated Karbiner 31. As a shoulder rifle, the AM 55

a Nation of Riflemen



Best-trained of Swiss troops are regulars like these but tiny nation could field an army of one million within 24 hours. Ability of Alpine country's militia to mobilize fast is based on home defense training.

is the junior partner of a family of weapons which includes the light machine gun MG 55, using a similar system of breech operation.

The AM 55 and the MG 55 are locked-breech full-caliber guns (7.62 mm NATO). The new rifle breech block has a moveable bolt face. Under pressure, force is transferred to two rollers on each side of the bolt, locking into frame recesses immediately at the rear of the chamber. The force cams the rollers inward, toward the center line of the bolt. Their positions mean that the centers of the rollers must actually roll forward a trifle under pressure, before they roll free of the receiver and permit the bolt to carry to the rear. This delay and solid-camming of the breech keeps the cartridge case secured until high pressure drops. The case as it pops out is bulged from pressure, and is not easily reloaded. The laterally grooved chamber eases case

set-back during the high-pressure opening phase.

The design reduces kick by delivering some of the recoil energy to the case in initial extraction, and to the breech block over a relatively long travel against a fairly weak recoil spring. As a result, the AM 55 is accurate and easy to control in assault fire. Holding the gun at my hip and firing from SIC's test range into a sand backstop 20 feet away, the stream of bullets squirted into the same hazy dust spot like pointing a garden hose. That I was holding the gun with one hand helped control it in full auto fire, since a tight grip on the front might have caused muzzle rise. Yet the AM 55 straight stock line and high sight level aids the shooter in establishing control. Practical, controllable full-auto fire is a definite philosophy among Swiss military men. My own experience with it was borne out by top Swiss civilian shooters who were invited by the Army



Target shooting with "pistolet d'ordonnance," the 7.65mm 1900 or Bern-made 1929 Luger is favorite sport with Swiss. Officers own arms.



Frontier professionals swim glacial river with packs, rifles, during fitness maneuver in Alps.

In field dress, part-time soldier wears arms, gear, which he must keep at home. Duty of Swiss citizen is defense preparedness to insure peace.

and SIG (Schweiz Industriell-Gesellschaft, or Company) to fire the new rifle recently. After a few bursts of familiarization firing, the marksmen, all experienced with the straight pull K31 but not especially familiar with automatic rifles, were able to shoot very accurately. About the only change in the Swiss rifle manual has been the abandonment of "present arms" because the box magazines do not allow it. AM 55 is easy to fire and Swiss civilians will be learning to shoot them in the next few years as SIG turns them out in quantity. The century-old engineering firm, which makes everything from Switzerland's railroad cars to finely crafted target pistols, developed the gun under direction of Rudolph Amsler, noted ordnance engineer, for domestic and world markets. The concept of the breech lock, pioneered in the Mauser Sturmgewehr M1945 and later used in the Spanish CETME, is reliable and without undue kick.

Proposed for adoption by NATO, the AM 55 was tested by the U.S. in the fall of 1956. Though it came through the tests well, I recall SIG Director William Huerter's concern over dust tests when he visited Camp Perry. He and his associate, Heinrich Hochueli, had come to Perry to show the rifle to various Army officers. Swiss arms agent





Prototype Neuhausen SIG machine pistol (M1941) resembles American Thompson slightly, was never mass-produced. Swiss encourage automatic gun designing.

Heinrich Grieder of Washington introduced me, and we discussed the new gun. I noticed the close fitting and excellent machining of the arms and asked how the rifle performed in dust tests. If a gun will not fire under dusty conditions, U. S. ordnance is not interested. Clean, fresh-air, mile high Switzerland is surprisingly free from dust, and the fine engineering of Swiss arms can sometimes be too close fitting. But the AM 55, in spite of its nice fitting,

is relatively free from dust contamination.

Although AM 55's shot by the riflemen of Switzerland may make Mr. Charles Chaplin unhappy (his villa is next to a municipal shooting range), they will help ensure the safety of the tiny country. Swiss military strength does not rely on a big standing army. With a total population of only 4,900,000—less than the population of either New York or Chicago—the Swiss military system defends the country with economy. About 45 per cent of the Swiss budget is defense. Thrifty Swiss get a better deal for their money than any other nation, for one out of five people is a reserve member of the armed forces, under their almost unique militia plan. The same plan in the U. S. would give us an army of *thirty million men*.

George Washington praised the Swiss military system in a letter he wrote to Alexander Hamilton in 1783. Said militia-man George Washington, "Passing by the mercenary armies, which have at one time or another subverted the liberties of almost all the countries they have been raised to defend, we might see, with admiration, the freedom and independence of Switzerland supported for centuries, in the midst of powerful and jealous neighbors, by means of a hardy and well organized militia." Washington's emphasis on the militia as opposed to "mercenary" armies, paid as full time employees, was due to his sense of economy as well as his fear that the Army might control the government. The same need for economical but effective national defense exists today. Switzerland still maintains its "hardy and well organized militia." "Every citizen capable of bearing arms," says the official document *The Swiss Army*, "receives a thorough military training as soon as he has attained his twentieth year. After that, he is bound each year to attend refresher courses. When he reaches a certain age, he need only attend these refresher courses at stated intervals; and at a still later period he has but to present himself for inspection; that is he is called upon once a year to show that his arms and equipment are maintained in good condition." In addition, there are "military duties performed when not in military service." Every year, lower grades of officers, non-coms, and enlisted men must participate in rifle practice to prove they can still shoot. Besides their regular duties, a large number of men engage in voluntary shooting practice within the military associations, of which

(Continued on page 44)



Current Swiss army pistol is SIG 47/8, also used by German border police. Swiss army weapon quality is highest in world. Gun is one of four NATO standard pistols.



Small children can handle man-sized rifles and can shoot with perfect safety when coach uses this position invented by Eleanor Dunn, nationally famous riflewoman. Coaching is Leo Gustafson, 1956 Connecticut .30 cal. champ.

WHO'S TOO YOUNG TO SHOOT?

By ELEANOR DUNN

**TURKEY SHOTS, GAME AND LUCK
TARGETS FOR WIVES AND
KIDS, OFFER DO-IT-TOGETHER FUN
FOR A WHOLE FAMILY, ALL AGES**

"OH NO, NOT AGAIN!" How many times have you heard your wife or your children say that when they see you reach for your rifle or shot gun? Doesn't it make you feel like a .22 caliber heel or even a 28 gauge one, if, despite their cries, you sneak off for an hour's shooting at the club? How about the other fellows? Do they have the same guilty feeling? Certainly they do!

What to do about it? Well, the Pound Ridge Rifle Club of Pound Ridge, New York, has gone a long way toward solving this problem by conducting a turkey shoot every November for their families and guests. This shoot has been so successful that, lately, the wives of the club members have been agitating for a similar shoot to be held at another season. Obviously, what they want is a ham or a lamb shoot conducted along the same lines as the turkey shoot.

Matches are over and prizes are all distributed but the kids are still keen for more shooting. Community all-family shoots are gaining in popularity.



Any doubt as to children's ability to absorb instruction is dispelled by their rapid development and by their willingness to pass on what they have learned.

Five-year-old Cecilia Clark shows mother and coach Wally Frank where her shot is going. Animal targets hold children's interest in "make believe" hunt.



The Pound Ridge plan is not for the express purpose of making money for a club. This is a scheme, and I use the word advisedly, which caters to the wives and children of the club members. The emphasis is on skill shooting at a minimum charge. The cost to an adult is \$1.50, while children pay 75c for two matches, including ammo and use of a club rifle, lunch, and chances to win worthwhile prizes. All this plus safety and, best of all, fun with the family.

Briefly, the Pound Ridge program includes an individual match for men, one for women, and one for children. Then there is a two-man team match for a man-woman team, and another for an adult-child team. The partners for these events are drawn from a hat. Since there are always fewer women than men, every woman fires at least twice, sometimes three times, with different partners. The women like this opportunity for more than one try for a turkey in this

match alone. Then there is an added match for women who will pay an extra entry fee in order to test their skill in trying for a special prize.

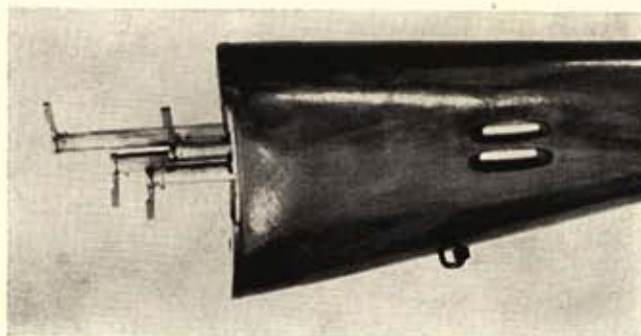
The date the Pound Ridge Club has chosen for its annual shoot is right; the Sunday before Thanksgiving. There is a lull in the social whirl about that time; and too, that is the time people become appalled at the length of the Christmas gift list, and the opportunity of picking up a turkey for free is most appealing to the budget-minded housekeeper. Another thing about the date is that it coincides with that nostalgic "going home to grandmother's for Thanksgiving" spirit. Too few grandmothers live on farms now, so this shoot out in the country is a substitute not only for urban but for the suburban dweller. Then too, the Monday after the shoot is not too late to cancel an order for a turkey with an airy, "My husband won a (Continued on page 47)

Gun of the Month

By WILLIAM B. EDWARDS



THE OLD • THE NEW • THE UNUSUAL



Tremendous ammo supply of odd German repeater comes from four tube magazines locked in butt, loaded through side.

GERMAN .22 RIFLE WAS CALLED IDEAL WEAPON FOR GENTLEMAN-HUNTER, FIRED FIFTY-SIX TIMES WITHOUT THE NEED TO RELOAD.



A RIFLE TO LOAD ON SUNDAY and shoot all week has been the dream of arms designers for years. Both Henry and Spencer claimed this honor in the American Civil War, but there were experimental guns of larger magazine capacity at the time. More recently, changing the magazine easily seems to have outstripped popular fancy in the repeating gun field. Except, of course, for the German "Stanley" .22 rifle.

This unusual weapon, serial number 49 and evidently a hand-made prototype or limited production firearm, has some inter-



Round part of Stanley receiver holds cartridge drum which carries shells in succession from tubes to loading ramp.

esting features. Most notable is its magazine capacity. The gun fires fifty-six times without reloading. Not one, but four tube magazines are arranged in the hollow butt stock to be loaded from two pair of loading ports, on each side of the stock. All four tubes feed into a rotating loading drum placed in the receiver below the bolt. On its surface are cam tracks, and on the bolt bottom a cam stud which shifts the carrier one notch each time the bolt moves. There appear to have been five different models of "Stanley" rifle. The guns with big magazine capacity may have been slanted for the English market, so named, and marked in "Caliber .22 Long

Rifle." Model I and II are not recorded. Descriptions of Models III and IV (which presuppose the Models I & II) appear in the 1924 Noris catalog, a German gun selling firm. Model III is described as built up on a small Mauser-style action, feeding from the butt somewhat like the Hotchkiss, Chaffee Reese, and other early bolt action repeaters. The catalog description says "The rifle may be used as a bolt action repeater (Mauser) or as a single shot. The distinguished appearance and precision workmanship of this arm together with its enormous magazine capacity and outstanding accuracy (make) it the 'Ideal weapon of the gentleman-hunter.'"

Model IV Stanley was somewhat different. Evidently, to judge from a liberal translation of the expression "adapted fore-end provisions," meaning "pump action alteration," it was a trombone rifle. Said the catalog "by means of the adapted fore-end provisions, the shooter is able to fire the entire 56 shots contained in the magazine without taking the gun from his shoulder. A lever on the side of the receiver permits this feature to be disconnected or locked out of operation . . . Bolt (Mauser) action."

What would seem, then, to be a later or "Model V" is the rifle shown above. Since very few of these guns appear to have been made, the serial on the specimen gun, No. 49, might be its place in a sequence of various models. It is definitely not a "Mauser" bolt action and it has functioned as a semi-automatic.

We shot the gun once on the range, a sequence of 56 times without taking it from the shoulder, working the bolt manually. At the 30th shot a silence was noticed in the range. The other shooters had stopped firing and gathered around. At the 40th mutters of astonishment were heard. By the 56th shot one jagged hole in the paper attested to its ballistic impact and the questions from the other shooters proved the psychological impact of the world's largest magazine capacity rifle.

Stanley No. 49 was originally sold about 30 years ago by Sports, Inc., Chicago gun dealer, but no more information is known about this almost unique example of big-magazine .22 automatic (?) rifle.

Noris catalog data courtesy National Rifle Association.

.38 Special Loading

THE .38 SPECIAL is the most widely reloaded round in the world. It's used for everything from informal plinking to target matches, to hunting and defense shooting. Good loads will group in 1 inch at 50 yards for top centerfire accuracy. Modern fodder is hardly kissin' kin to the original black powder round designed by Smith & Wesson in 1902. Modern .357 guns handle the entire range of loads well. Loading is a lead pipe cinch, and you can cast the lead pipe into dandy bullets. These tips may relieve that dizzy spell you have after a gander at the long list of available bullet types. The proper bullet for the purpose is important. Weights range from a 70 grain round ball to huge 200 grain slugs, depending on the job to be done.

Swaged bullets run more uniform in weight and density, and help eliminate air pockets and other defects. Cast bullets are still the most popular and good ones compare favorably. A perfect bullet base is necessary for accuracy and is insured with a half jacket, a gas check or zinc washer design, that will not deform under high pressure or temperature. Standard gas checks are best crimped on with a cannelluring die to prevent shedding in the case or in flight. Plain base bullets generally perform well at moderate velocity and pressure.

Wadcutter are the most used target bullets. The best Hensley & Gibbs numbers are 9, 36, 41 and 50, supplied in four-hole or larger moulds only. The top Lyman numbers are 395, 425, 432, and 495, preceded by the desired sizing diameters, generally .358, available in one or two cavity blocks. Semi-wadcutter have a much longer accurate range at higher velocity and are superior for hunting or defense. The Lyman 357156 Thompson Gas Check is their best. Lakeville Arms supplies two Harvey designs that can be cast, swaged, or bought as factory bullets. Both types are very accurate. Made of soft, unalloyed lead, shocking power is greatly increased and loading is easy as they are not sized or lubricated. Most popular weight is the 135 grain Prot-X-bore zinc base and 127 gr. half jacket Jugular.

Jugulars can be driven faster than any other lead bullets of the same weight. The 135 grain Prot-X-bore is not far behind and has set some target records when loaded with 3 to 3.5 grains Bullseye. All listed .38 bullets work well in .357 guns, which makes them more versatile. Plain base Magnum

HANDLOADING BENCH



Bullets for .38 Spl. handloads are (top) H & G 51; Ideal 357446 & 358156; and two Harveys. Bottom are Ideal 358432 & 358424; H & G 50 & 41; and defective cast slug from "custom" load.

designs that work well are H & G 51 and Lyman 446.

Some writers suggest sizing bullets for Colt's as small as .356 and for Smith & Wesson's as large as .360. Either gun handles target charges with bullets sized .357 or .358, but accuracy may improve by experimenting. Heavy loads may perform better in a Smith if sized .357 or in a Colt at .356. Light frame guns are intended for a working pressure in the 15,000 pounds per square inch range, obtained with 3.5 grains Bullseye or 5.4 grains Unique with most bullets not heavier than 158 grains. Around 3 grains of Bullseye is generally the most accurate, but charges are best worked up for individual guns.

Be sure your expander is small enough to give a tight friction fit. A good bell on the case mouth to prevent shaving lead is best obtained by expanding in a separate operation. Some dies are made with three dies in the set for this purpose. Seating and crimping are also best done in separate oper-

ations with Harvey bullets. A fairly heavy crimp insures good ignition with heavy charges. Maximum case length is 1.160 and I trim to 1.142, which catches most short cases. Case lengths vary, and accurate trimming will tighten groups by putting a uniform crimp on each bullet.

Primers are correctly seated .003" or slightly more below the head face. Be sure they are seated slightly below flush and are slightly compressed to increase sensitivity, without crushing. Sloppy priming causes most ignition trouble. The most sensitive primer I've tested is the No. 500 made by Cascade Cartridge, Inc. It has excellent uniformity and ignition qualities, which helps make the vital priming operation somewhat less critical. C.C.I. primers have been placing high in matches.

Good bullets are the secret of good scores. Defective bullets with holes in the bases, or air pockets, or those sized out of balance, will not shoot accurately. Bullets are to blame for most flyers. A uniform alloy is important and a thermostat controlled electric furnace will insure uniform bullet density. Keep each batch of alloy exactly the same. 1 to 16 tin and lead is about right but the best accuracy may be obtained with 1-10 or 1-20. A uniform tin-lead mix is difficult to maintain and I don't believe in complicating it further with a third alloy by adding antimony, which makes it a cinch to burn out some tin. The best casting temperature is around 725 degrees F. No difficulty will be experienced in making unalloyed Harvey bullets, except if scrap lead is used the pot should be skimmed before fluxing, to insure pure lead.

The tiny 2" snub-nose .38's are dandy guns to take money away from people who look on them with contempt. They look too

(Continued on Page 63)

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SHORT RIFLE, LONG RANGE

(Continued from page 18)

and he made a bullpup for me from a .22 Savage automatic. It was a very inexpensive design since only a straight brass push rod was used for the extended trigger connection. The small 3X Weaver scope was mounted by using two of the low priced side mounts, one on top of the other. The new stock greatly increased the accuracy of the rifle in a rest, prone, or in sitting position. For shooting at any less than record levels the bullpup can achieve top accuracy with ease. There seems to be little reason to doubt that its holding ability is at least as good as that of the conventional rifle in a stable position without wind.

When cross winds are blowing the bullpup has the advantage. This is due to the reduced area in the wind of the shorter weapon, plus the greater holding leverage its length makes possible. The greater the degree to which the shooter's position becomes unstable, the greater is the advantage of the bullpup in the wind.

From offhand position, the bullpup is more accurate for holding even without wind. Sight crosshairs do not dance and roll as in the conventional arm, and may be held on one spot for many seconds. In a breeze the advantage of the bullpup applies to offhand shooting since that is the least stable of all positions. The weight of the shooter's head and neck appears to stabilize the bullpup to a greater degree, since it is shorter and the balance point is further toward the shoulder. Firing at moving game, the bullpup has a greater advantage over the conventional rifle. Most shots are taken offhand. In some cases it is necessary to follow the target for many seconds before firing, at a time likely not in accord with the pendulum swing of the distinguished offhand shooter when trying for the smallest of targets with the conventional heavy rifle. For quick shots at close moving game, a bullpup is the fastest to bring into position because, other factors being equal, the shorter arm is the faster to swing.

Carrying and handling a shorter weapon is easier even if it is somewhat heavier, due to the law of the lever on your arm and hand. Of course, by using a weighted forearm it can be balanced as far forward as a conventional arm with the other advantage of the shorter arm retained if desired.

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but when better balance makes your friends guess your ten pound rifle at five or seven pounds, why do it? The shorter weapon is always an advantage when swinging in brush, or shooting from mounted or seated position where freedom of movement is needed.

For these reasons I especially regretted losing my bullpup, which was stolen one dark night. Later I had Sam Johnson, of Fresno, California, build one on a 550 Remington automatic 22 caliber action complete with a removable weighted palm rest, and a one inch scope mount. I soon learned that the gun performed better, even on running game with the rest on. With scope it weighed about 8½ pounds. The Weaver K 2.5 scope was used successfully, but I replaced it with a K 4 which I didn't like at first, due to its smaller field of view on close shots at the



Bull pup version based on BAR was developed by W/O Loren C. Cook.

black tailed jack rabbit. However, it soon started to pay off at the longer shots. Rabbits began to fall at 70, 80 and 90 yards where I had considered them rare long shots in the many years when I hunted with a six pound iron sighted rifle.

In 1938, I started to hunt the cottontails of Iowa with a 4¾ pound Model 24 Remington less than three feet in length. It was fairly well suited to a close fast target as such carbine-type weapons are. Any heavy target type of rifle can do fairly well on the small still targets, but only the bullpup can provide a truly good substitute for both, rolled into one gun. The 25 years in which I have used conventional arms of all weights testify on this point. With the palm rest bullpup, I have killed rabbits sitting 160 yards away, while shooting offhand.

In late July of 1955, I killed a jackrabbit running over an open field at 100 yards. On July 30th three more were taken with the bullpup; two at 85 yards and one at 110 yards. All were running fast. The payoff came on July 31, 1955. After many seconds

of following with the crosshairs of the scope, the thud of the bullet telegraphed news of the longest kill I had ever made on a moving rabbit. It is doubtful if I would have fired had I stopped to realize how far it was. On arrival I found the animal stone dead, with its back broken over the heart. The distance was 177 yards.

To those who may argue that the long shot of 177 yards could be nothing but an accident, in spite of numerous running kills up to a 130 yards, know ye, that on February 15, 1958 a running kill at a 173 yards was accomplished by a head hit on an adult California black tailed jackrabbit. This was a straightaway shot after lining up in the off hand position for a sitting shot. The uncooperative rabbit changed himself into a moving target to establish what I believe to be another near record running shot with a 22 rim fire weapon.

It is not my intention to claim this or any rifle, let alone a .22 caliber rim fire, is effective on running jack rabbits at such a distance. At long range a .22 Hornet would be better and a .220 Swift better yet. It is unfortunate that no such cartridge is available in an automatic action. Even if it were, the recoil would tend to throw the scope hairs too far off the target to be best for rapid fire shooting. The same disturbance would be true of the pump and lever actions in any caliber. However, at a distance up to 100 yards, I have found the .22 rim fire fairly capable for jack rabbit. I do not believe that I could match my results with any gun of like caliber in a conventional rifle.

While the 4X scope seems to be doing the best on the long shots I believe a 2 1/3 power scope with the largest possible field of view would be right for general use on moving game. The more powerful scopes are better for still game at a distance, or where a head only is visible, as in prone varmint shooting.

The advantages of the bullpup are not confined to low powered arms or small game. Supposed objections such as danger to the shooter, have been answered. For example, a blown primer in a Mauser-type action presents a greater hazard in a conventional arm than in any bullpup. Barrel vibration and muzzle report objections appear to have little effect in reality. With a regular barrel length the bullpup is legal in all states. Where rapid fire is not important, the bolt action may be used. However, a pump or automatic action such as the new Remington's would likely gain the maximum improvement from a bullpup stock. Either .30-06 or .270-280 caliber may be used. At this time my mind is turning toward such a weapon for use on the African Veldt.

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PICK THE GUN THAT SERVES YOU BEST

(Continued from page 31)

and load you're interested in, and all of them seem to kill about the same amount of stuff. A little practice means more in the way of full game bags than a whole book full of theories. For me, a little 16 gauge Browning auto with 26" barrel, bored improved cylinder, seems about perfect. I don't kill any more with it than with other shotguns I've owned, but it's such a wonderful piece of mechanism that I enjoy using it. Anyone who does a great amount of long range shooting, such as pass shooting on ducks, wouldn't care for this gun at all, but it isn't difficult for them to choose something more suitable. I have two friends who probably do as much duck shooting as anyone in this region. One uses a 12 gauge magnum pump and the other a 10 gauge magnum double. They kill a lot of ducks, and many of them are a long way off, but you have to be a good gunner to take advantage of the efficiency of these outfits. For pheasants, grouse, and rabbits at normal ranges, which usually means less than thirty-five yards, the open-bored sixteen seems okay.

Choosing a rifle for big game can be something of a problem. Even if only one type of game is hunted, the terrain can make a great difference in what is suitable. For the white-tail deer in thick, brushy country or slashings, with average ranges often under fifty yards, the ideal rifle is something short, light, and easily operated. This would include the Winchester and Marlin lever action carbines in the .30-30 class, or the short-barreled M-14 and M-141 Remingtons in .30, .32, or .35 caliber. When game is in sight for only a few seconds, this kind of rifle fills the bill. The factory open sight is suitable, although an aperture sight on the tang or receiver is better—so long as you don't try to hunt with the tiny-holed disc screwed into it. That thing is okay to bring a black and white target into better focus, but it's an invention of the devil in dark woods. Best thing you can do with that disc is chuck it.

While the .30-30 class of cartridges (which includes the .32 Special, .303 Savage, .30 and .32 Remingtons, and some of the older loads such as the .38-55) are very popular for this short range shooting, with so many hunters as are now in the woods, you are better off with something of more power

which is more likely to drop an animal in its tracks with any well placed shot.

For this short to medium range shooting, such calibers as the .300 Savage, .35 Remington, .348 and .358 Winchesters provide the extra power which so often comes in handy; and they come in the slide and lever actions liked by men who are hunters first and gun cranks second. With shots so few and far between as they are, it is discouraging to hit an animal and then have it run far enough for another hunter to finish it off; or even worse, to have it escape to die where it benefits no one. We don't have so many big game animals that we can afford to waste them. I've used my .348 Model 71 lever rifle for several years with good results. For game larger than deer, such as elk and moose, the .348 and .358 have it all over the smaller stuff, especially with the 250 grain slugs. In a lever gun, the wildcat .450 Alaskan cartridge, based on an expanded .348 case, would seem to be the most powerful load available and should be near perfect on elk and moose in the timber.

For open country hunting, a different type of rifle and cartridge is advisable. My own preference is a custom Mauser chambered for 7 x 61 Sharpe & Hart. Since ranges will average much longer, high-velocity loads will make the problems of range estimation and lead on moving game much simpler. This is the type of shooting in which the scope-sighted bolt action rifle is supreme. With the strong Mauser-type action, which can easily handle loads developing 50-55,000 pounds-per-square-inch pressure, we can then use such cartridges as the .270, .30-06, and .300 Magnum in factory loads, and an almost infinite number of wildcat designs which fall in the same bracket. In fact, many wildcat loads considerably improve on results obtainable in factory stuff, but they are handicapped by limited ammunition supply.

If you hunt in country where long range shooting is the rule, get a good, stiff bolt gun with a barrel as heavy as you care to carry, check the stock bedding carefully, latch a scope of at least four power on the top deck, and go to it. Zero it at a range which will offer the best trajectory over your usual hunting ranges, then shoot it at hundred yard

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intervals to see where your point of impact is at each one. When you've done this, and either memorized or taped the information on the stock or scope barrel, any critters you find within four or five hundred yards are in for a rough time. You could probably hit them further from a solid position, but velocity will be dropping off so much that bullet expansion is poor, and without expansion the small bore slugs such as .270's and .30 calibers don't kill well.

It should be obvious that you should get as close as possible to game before shooting. It's easier to connect and there is less chance of losing a cripple; but sometimes we can't pick our shots and have to try them at long range. For instance, my last chance at a deer came just before quitting time on the final day of the season. We spotted it on a high knoll just outside of a woods, somewhere between four and five hundred yards distant. I'd have been much happier to take the shot at half that range, but the deer was watching us; there was no opportunity to get closer; and I either had to try it or go without a shot that season. So I tried it, as most any hunter would have done. From a solid sitting position with a rest for my left hand, I smacked it in the chest with a 160 grain Sierra boat-tail from the 7 x 61 Sharpe & Hart Magnum. As I said, I don't like shooting that far, but actually it was an easier kill than it would have been at two hundred with an iron-sighted rifle. Having an outfit with the accuracy and punch necessary for that kind of shooting can sometimes mean the difference between success and failure on a trip.

So, looking back at the kinds of shooting I do—small-bore, small game, varmints and big game in either woods or open country—it seems that the indispensable guns in the rack are the Winchester M-52, the Browning "Sweet Sixteen," the 6 mm Cobra, the short-barreled M-71 Winchester .348, and the 7 x 61 S&H Magnum. There are other guns in the rack; as I said before, they come and they go, and they have their own excuse for being there. But these five are necessary ones, the ones it would be difficult to get along without, because each serves a definite purpose. So maybe when you're buying a gun it would pay to ask yourself for just what purpose you're getting it. If it doesn't fill a specific need, think it over. First get the guns you need; then you can get the extras.



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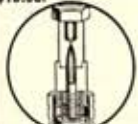
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GUNS FOR A NATION OF RIFLEMEN

(Continued from page 35)

there are a great many in Switzerland.

Associations such as the "Societe Suisse des Carabiniers" in the Canton of Vaud, French Switzerland, the Revolver und Pistolenschutzenverband and the Schutzen-Gesellschaft der Stadt in Zurich, and the Matchschutzenverband at the ammunition factory in Altdorf, get together to hold the world's biggest shooting competitions. This June, 1958, the Swiss national matches will have been fired by the time this issue is printed, with 80-100,000 competitors. The Swiss D.C.M. is issuing 2 1/2 million to 3 million rounds of ball ammunition for this national competition. In all, of the 4,900,000 Swiss men, women, and children, over 400,000 are active members of the Federal shooting clubs. One in ten Switzers is a marksman.

There are reasons for this, as unique as the national enthusiasm which makes Switzerland truly the only "nation of riflemen." I found out some of the reasons why this is so when I visited Switzerland with the Gun Tour last fall.

We were the guests of Mr. B. Truniger, who in civil life is a prosperous insurance broker, and whose hobby is shooting. He is a member of the Shooting Club of Zurich. "Come, let us go to the club and have a bite of lunch and fire a few shots," he said as he picked us up at the Hotel St. Gotthard. We drove up a winding main road, toward the outskirts of town. Twenty minutes from the center of the city we approached a group of buildings beside a huge field. Though the view was shrouded in the morning mists, I saw enough to make me gasp in amazement. "This is the shooting club?" I asked.

At the crest of the hill was a building as big as a city railroad station. The granite tower entrance loomed above us as we drove into the parking area. The Zurich shooting club is no tarpaper rathole; it is an institution of civic importance, supported as such. Truniger pushed open the high iron gates and we walked into the entryway. He snapped on the lights, and I saw from thirty to fifty firing points stretching away to both wings. On the first floor were pistol shooting points. The balcony above held rifle firing points. Beyond the shooting pavilion to the right stretched a macadam surfaced firing line with concrete gutters and individual signal connections to each target three hundred meters distant. I asked Truniger if the range to the side, where a dozen soldiers were practice firing, belonged to the club. "Oh, no," he replied, "That land belongs to the city of Zurich. By law, each city must make range land available to the shooting clubs, in addition to any land the club may own."

As I looked away to the targets popping up and down at the edge of the mountain mists, I thought this was a pretty good deal: a firing front almost a mile wide, most of it contributed by the city. The Zurich club has 1200 members. I asked Truniger how a civilian shooting club could afford such palatial shooting grounds. Pointing to the sculptured escutcheon on the front of the club building, which was dated 1893, he said "In that year the club sold its in-town shooting area to the railroad system to build a railroad station, and moved out here to cheaper land."

But making a good real estate deal a half century ago is not the only reason the club

prosper. Government ammunition subsidies keep big bore shooting active. For competitions between clubs in national or regional championships, the 7.5 mm Swiss ammunition costs 23 centimes, approximately 5 1/4 c U. S. But this low price is the highest government price. Ammunition fired in club intra-mural contests are charged at 17 centimes, 4 1/4 c, and shells used in "Sunday shooting" practice costs the ridiculously low price of 11 centimes, exactly 2 1/4 c American! The Army in Switzerland encourages civilian marksmanship to a high degree.

Combat in Switzerland presents special problems, though the Swiss are no more "defended" by the ramparts of the Alps than are the Austrians shielded from Germany by the Tyrols, or the French protected from the Italians by the Alpes Maritimes. The Swiss are justly secretive about their own fortress defenses, and I had to make my visit as a "tourist." On the high road outside of Zurich, the bus for the Furka-Grimmel-Susten passes tour goes suddenly from sun into night. The narrow road wandering among the high meadows is drilled through a solid outcrop of granite rock. If your eyes can adjust to the temporary darkness as the bus rolls through the short tunnel, you will see



Trained citizen-soldiers stand ready to guard Swiss passes against invader.

the iron guides for huge steel doors that can be dropped across the road in an instant. Beyond the tunnel is a clearing where the mountain has been cut out to receive a rustic field stone garrison barracks. The place resembles an American turnpike state police barracks. These soldiers, often elite fulltime Alpine troops, guard the few lines of approach for a land army into—or out of—Switzerland. Off on the nearby hillsides are huge boulders, seemingly scattered there by the random hand of time. A second look reveals that little wire fences surround each boulder to keep the cows from tripping over the gun muzzles. Each boulder is a hidden artillery pillbox or OP placed to sweep the valley. Switzerland is guarded by artillery and natural boundaries, by its strategic location on the crossroads of the world between north Europe and the Mediterranean, and by its riflemen.

These Swiss riflemen are everywhere. As a requirement of citizenship, participation in military rifle shooting is mandatory. It has been so for hundreds of years, and for hundreds of years, Switzerland has enjoyed freedom and prosperity and peace amid wars and depressions. The Swiss soldier is in charge of his own "arsenal," a unique but workable concept in a land of three races, three cultures, four languages and two religions. Swiss citizen-soldiers keep their per-

sonal equipment, their uniforms and arms at home. The arms until 1958 included Luger and Neuhausen automatic pistols, and K31 straight-pull rifles. Now AM 55 assault machine rifles have been added to the personal armament of the soldier at home.

Equipping citizen soldiers with weapons as effective as the SIG assault rifle is in the tradition of the mile-high republic. Switzerland for years has emphasized fast shooting with accurate aiming for soldiers. In 1841 smoothbore muskets were replaced by small caliber rifles accurate enough for match rifle shooting, the famous "Federal Rifle." A .41 caliber "smallbore," the high velocity arm preceded the U.S. .45 caliber rifle by over thirty years; set the pattern for many nations' loads. In 1860, the muzzle loading Federal rifles were placed in reserve, and the Prelaz-Burnand breechloaders issued. Built by the then-new SIG, the bolt action single shooter with outside percussion lock was designed by gunmaker Prelaz and the first director of SIG, Oberst Burnand.

Switzerland not only was the first major nation to use a smallbore breechloader, but they adopted a repeater before any other nation. The Winchester lever rifle attracted their army at first, but was abandoned. Instead the SIG rifle designed by director Friedrich Vetterli was adopted in 1869. A tube magazine repeater, it had a bolt action mechanism adapted for a .41 caliber rim-fire, later centerfire, cartridge. Vetterli had studied gunmaking under Schalech of Schaffhausen, later worked in Paris and London. Its rapid fire capability, one in every home in Switzerland, was a major deterrent to aggression during the days of Germany's rise to power, the Franco-Prussian

war, the consolidation of the Italian monarchy, and the wars between Prussia and Austria. Around the Swiss flowed the tides of war, while they maintained by threat of arms their cherished neutrality.

SIG's story parallels the story of Swiss armed freedom. New calibers, new weapons were introduced. Switzerland junked the Vetterli, designed a smallbore bottleneck high power cartridge, the 7.5mm, for a new rifle. Named Schmidt-Rubin after the military officers who developed the system, straight pull Model 1889 rifles were produced by SIG who even today has rebuilt these same old guns to 8mm Mauser and .30-06 experimentally.

Improved over the years, the straight pull rifle was "first line" until 1958. I watched soldiers and civilian shooters working the guns, found a curious habit to their firing. Careful aiming was usual, but as soon as the shot bounced the gun in recoil they slapped that bolt open and shut. Speedy firing was possible because kick was used to aid bolt operation, and the pull-push bolt cycle made rapid fire possible and practical. In slow fire, the rapid bolt opening also permitted the barrel to cool slightly, avoiding heating up the gun.

The straight pull system inspired General Manuel Mondragon of the Mexican Army in the Diaz days to design an automatic rifle. SIG did most of the development work, produced several models before establishing a basic design for production. Adopted in 1908, the Mondragon 7mm was a graceful, beautifully engineered light semi-automatic infantry arm, sometimes fitted with a wire bipod for better aiming. Four thousand Mon-

(Continued on page 47)

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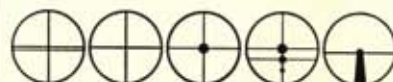
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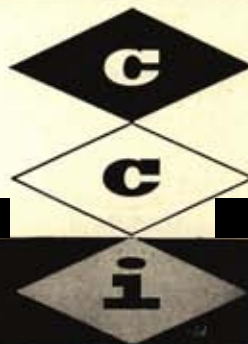
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Huge club house was built by Zurich shooters; has rifle, pistol points.

dragon auto rifles were ordered from SIG at a cost of about \$32. By the time of the Revolution in 1910, only about 400 had been delivered.

Swiss shooters and designers foresaw the importance of the submachine gun. By the 1920's SIG pioneered some unusual weapons. One was chambered for a bottleneck round midway between rifle and pistol cartridges, a 7.65 x 35 mm "mittelpatrone," or middle-sized cartridge. This Swiss innovation underlay development of the German 7.92 Kurz for machine pistols, and the short Russian light rifle round. But heavier calibers won out for service use. In 1925 the national arms factory built a machine gun, named after works director Colonel Furrer, patterned after the Luger pistol. The toggle is on the side, opening to the right, and the clip feeds from the left. SIG makes parts for the M25 LMG and many other guns, but the engineers at the Rhine falls set up a new gun on the drawing boards and the model makers copied it out. They call it the KE-7. Like the Furrer, KE-7 has bipod and butt rest. Unlike the Furrer, KE-7 has a vertical box magazine, and weighs but 17 pounds. A collapsible tripod is made for the KE-7. A light trigger pull fires single shots. Hauling back on the trigger releases a burst. Newer ideas have obsoleted KE-7, though one student gunmaker fell in love with the gun: treasured in SIG's small weapons collection is a complete and working KE-7 one-third scale size, a beautiful minia-

ture so perfect you can hardly believe it doesn't shoot.

Currently first-line in machine guns is the MG50. Gas operated, with a quick barrel removal, the gun is versatile in action. It can be an individual light gun with drum magazine, a belt fed weapon from bipod or tripod, and fitted with a scope sight and precisely calibrated tripod gear can be used for indirect fire or any other way required. Springs in the tripod gear cradle the gun during burst fire, increasing accuracy. Switzerland's M50 owes some debt to earlier German MG34 and MG42 designs, notably in the feed system since the M50 is of course gas operated.

Switzerland's latest "family of weapons" also comes from SIG. The citizen-soldiers are old hands with family design ideas, having used the Luger pistol and the Luger-like LMG for many years. Now the AM55 assault rifle goes out to the part-time soldiers, and the Neuhausen-designed MG55, a heavy version using the same roller breech block, is being considered as the heavy weapon. The idea of civilians possessing the most modern military weapons does not shock any Army officers in Switzerland. The official attitude is that "the total arming of a people requires, quite naturally, that the political condition of the country be stable and that there be complete confidence in the government. For a country like Switzerland, which is encompassed by great powers, rapid mobilization in time of war can be a decisive factor."

But Swiss shooters may not get to hold onto their AM55's for long. SIG's engineers are progressive. We tried to borrow an AM55 for detailed review from the factory. "I don't think we really want too much publicity on this after all," Direktor Huerter told me. "We have a newer model in mind, for one thing," he explained. We asked a question: "Does the new gun still use metallic cartridges?" Huerter jumped visibly, glanced quickly at his colleagues, then smiled. "For the present, yes," he said. But it was evident something new was in the wind for Swiss shooters, who live in a nation of riflemen.

WHO'S TOO YOUNG TO SHOOT?

(Continued from page 37)

turkey at a rifle shoot," or even better, "I won a turkey at a rifle shoot." What a lift that would give the Monday shopper!

The club has been holding these shoots for more than fifteen years and only twice has the weather caused postponement. Both times, however, several families in their eagerness to shoot didn't give the weather a thought and whipped off to the range without a precautionary telephone call to the committee. That kind of enthusiasm pleases the club members very much. If it isn't raining or too cold the shoot is held. If it should rain while the shoot is in progress, the firing line is moved back to covered firing points and the fun continues. What with hot drinks, warm clothes, and the general excitement, no one seems to mind the weather.

The shoot begins at ten o'clock in the morning, a time selected for convenience to the shooters and to make use of the best hours of the day so far as average weather and temperature conditions are concerned. With good weather, the committee expects about 100 people. It has been found that

eight to ten firing points will accommodate that many people, shooting between ten and three o'clock. From three to four o'clock, the time is spent in awarding the prizes and raffling off any excess prizes, in saying goodbye until the spring shooting begins, and in gathering kids and shooting paraphernalia. By four o'clock the sun has gone down behind the hills and the wind has a bite.

Serving early the day of the shoot, a club member, a former Chief of Police, directs the parking of cars. This strikes the right note for the day. In the past, anyone taking a rifle out of a car was told to report to the committee in charge of rifles. The rifle was inspected and, if found in safe condition, was placed on the firing line to remain in the charge of the range officer for the entire day. The invitations to the shoot this year however, forbid the use of any rifle except those of the club, which include standard target guns of various weights for adults and a few light, short rifles for children. Excluding all but club rifles makes things easier, since it does away with inspections and last minute sighting-in of rifles.

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Another important rule is that one man controls the ammunition department. He has one helper to whom he issues as many rounds of ammo as are needed for one relay of shooters. The helper distributes the ammo just before the order to load the rifles is given. Coaches are provided for new shooters, to teach and enforce shooting rules. The rifles are never removed from the firing line until the shooting is completed for the day.

A turkey shoot can be fun for the members only if every man is assigned a job and can be counted on to do that job in a satisfactory manner. The Pound Ridge Club runs its shoot with no effort at all. Although each man has an assignment, it never keeps him from shooting or having fun. More important, the assignment never prevents him from helping his family and guests when they are on the firing line.

The prizes are planned to please feminine guests. First prize in the three adult matches is, of course, a turkey, a good name brand, frozen and averaging about twelve or fourteen pounds. All meat prizes are frozen so if they don't fit into the immediate menu plan they may be popped into the freezer for the future. The second prize is a fine two-inch-thick steak, and third prize is a good fat chicken. The fourth place winner is consoled by two pounds of bacon, while fifth spot winner takes home either a carton of cigarettes or a bottle of wine. All practical things.

In addition to those down-to-earth awards, there is a special prize in an added skill event for women. This is a bottle of Chacogneau perfume, the perfume which is sold to men only. This bit of nonsense is a reward for the women who have learned to shoot by plugging along in the annual matches year after year. The men club members decided, in 1955, that if enough women were willing to put up an extra dollar for a worthwhile prize, the match was worth having. The men probably thought the added dollar would be a deterrent. Instead, a long line of perfume-lovers formed at the registration desk, every gal clutching her dollar bill and murmuring, "This is for me." The skeptical club members were amazed at the scores turned in. They were equally surprised by the increased interest on the part of their wives in their own shooting activities.

The children's prizes are just what they want: chickens, candy, medals and more medals. Prizes are awarded to three age groups: thirteen to sixteen, ten to twelve, and nine years and under. The top prize is a chicken which is always handed over with a loud, "Look, Mommy, what I won for you." The young nimrod keeps for himself a handsome gold medal. Second and third places take medals too, and those medals are better quality than many a medal awarded by other clubs in adult matches. Since most of these kids are first-time winners and these medals are the first in what is hoped will be a big

collection, the chairman of the medal committee goes all out in his selections. The kids shoot at skill targets now although at one time the younger ones fired at "luck" targets. The kids themselves asked for the change. So, even though a child nine or younger fires on a 50 yard pistol target at 25 yards, when he wins a medal it means he is actually more skillful than other youngsters. It's mighty thrilling to see a child get his first shooting medal. And you can count on it that he's looking forward to winning more.

After conducting their shoot a few years, the Pound Ridge Club found that prizes would be spread more equably among club families if a family's winnings were limited. A second place winner benefits when he is second to a previous winner, for the second turkey is passed on to the runner-up. To keep interest at white heat, after every match the list of prize winners is read, although the prizes are not distributed until the shooting has been finished.

National Rifle Association scoring rules are used to break ties. The first time any of the women knew anything about these rules was when the first perfume shoot ended in a tie. Consternation reigned until they were told about the tie-breaking method which they all accepted as being a most logical way of settling the difficulty. These shoots are actually indoctrinating the girls, little by little, in the art of rifle shooting.

For variety, the ten to twelve year group and the thirteen to sixteen year olds use targets with scoring rings superimposed on animal silhouettes such as woodchucks and foxes. Makes the kids feel like hunters. The bingo or luck target will never be discarded entirely, for there are always feminine guests who know nothing about shooting. The luck targets have given them a chance to win, too. In all matches, any position may be used.

Every year the chairman of the commissary department packs into his jeep, his outdoor grill which takes care of hot dogs, toasted rolls, and water for hot powdered drinks; coffee, tea and chocolate. After the jeep has done its job hauling food, the engine hood is used as an auxiliary scoring table by the scoring committee. As far as possible, the same men take over the same duties every year, lightening the work by skill born of experience.

One result of this annual turkey shoot has been a quickening of interest in shooting on the part of many of the wives. Any women may shoot with the club at any time provided she is accompanied by a member who will be responsible for her shooting behavior. This seems to satisfy the ladies and to please the men. Another result is the spring training classes for junior shooters from the ages of twelve to nineteen years. When classes were organized the daughters of the club wanted in along with the boys, so they were allowed to join the classes and the junior rifle club was opened to both boys and girls. The training classes welcome all boys and girls in the neighborhood, whether or not their fathers are club members.

The members of the Pound Ridge Club now point with glee to the fact that some of their wives occasionally suggest that the family do a little picnicking and shooting. This is a far cry from the days when the men used to "sneak off" to the range, feeling guilty under wifely disapproval. Now, if she doesn't like being left alone, she goes along—and may out-shoot her lord and master!

SHOOTING THE NEW ARMY RIFLE

(Continued from page 15)

made of what appears to be the same hardened steel that was used for the Garand clean-out plug. This metal on the gun we borrowed did not take a proper blue, and shines like a headlight in the sun.

The autofire switch at the right receiver rear is a simple turnover button giving either full- or semi-auto shooting. Full automatic searing is done by a long flat strip linked to a sear kicker. It fits against the receiver on the right side; at its front end is a hook which is caught by the operating slide as the latter closes the bolt. The operating slide cannot engage the sear strip until it has locked the bolt, preventing premature discharge. In the last phase of the closing stroke, the sear bar is pulled slightly forward, and in turn it pulls on a sear kicker which automatically disengages the rear sear from the hammer, firing the gun. Firing continues until the trigger is released or magazine exhausted. In semi-auto position, the bar does not trip the sear. Mechanical selection is accomplished by the switch. Rotating on an eccentric, it rocks the searing bar one way at the rear to engage the sear. Pushed into release and rotated 90°, the switch shoves the searing bar out of action. This design was developed by Garand at the end of 1944 and during the first seven months of 1945, as a modification to the M1 rifle. The basic principle is contained in the M14's full auto fire control.

While the M14 and the heavy-barrel M15 (which is fitted with a bipod) have full-automatic capability, the M14 at latest report will be issued with a lock-out button. Punching out a fine pin and substituting the proper full-auto switch and spring will return the gun to selective fire. Rifles will be issued with semi- and full-auto buttons, according to one source. The decision to make the gun full and semi, or semi only, will be at the battalion or company level. Of course, the lock out button could be altered easily to full auto by the soldier and would probably be so altered in anticipation of a fire fight if full auto buttons were not ready for issue.

The trigger group is similar to the Garand, except for the auto fire sear. Many of the parts are interchangeable. The rear sight is identical with that on the Garand. The bolt is shorter to accommodate the new 7.62 Nato round, but it is also identical except for the lug which rides in the operating rod cam groove. Instead of a simple stub projecting from the bolt locking lug, there is a little roller bearing, a neat friction reducing device, that rides in the cam groove. EX-GI's will be happy to know that the bolt goes in and out of the receiver with the old tilt-and-tip motion that is so familiar.

The barrel carries a flash suppressor about 3 inches long at the muzzle. The barrel is 22", the Garand's 24", but total length is a fraction greater. The flash hider is said to dampen barrel vibrations and improve accuracy. This sounds reasonable, since some of our best featherweight commercial sporter barrels have a 2" section at the barrel tip turned oversize to provide a dampening effect. The suppressor avoids muzzle flash by cooling the powder gases below the incandescent point. A five-prong device, the bottom prong is wide to give a pressure surface so the suppressor acts somewhat like a Cutts Comp in reducing kick. It is held on by a threaded muzzle collar. Since the front sight and the bayonet stud are both parts of this assembly, the suppressor takes a beating in use. We noticed that the collar had worked loose slightly and the sight wobbled, on the gun we shot.

Using only one magazine, we were unable to test for overheating. But a 20-round burst followed by another as soon as we had loaded the box barely warmed the handguard. Heat conducting is good in this gun, even with the slender, light weight barrel. For fast reloading with only one box, a ten-shot stripper clip like the Russian for SKS-46 is being designed, and the rifle could be loaded from the top, bolt open. Springfield clips apparently will not fit the clip guides on the new gun, but clip loading or magazine loading at will is a distinct advantage over the M1's 8-shot clip, especially in full auto fire.

The full auto fire feature is the one point about the gun that we have reservations about. So, apparently, does the Army. A Department of Defense news release of December 27, 1951, states plainly that the "Army needs and wants a lighter weapon (than the Garand) capable of selective semi- and full-automatic fire" that would "permit the rifle being fired in short bursts like a machine gun." Yet the proposed policy on the M14 is to issue it with a blank button, capable of semi auto fire only. The company commander is to have available the little full-

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Why this unrealistic hedging on the full auto problem? There are two possible reasons. In an interesting "white paper" put out shortly after the Korean War, the Department of Defense tried to answer criticism of our then current weapons, the Garand, the BAR, and the Browning machine guns. One of the points repeatedly brought forward in support of the Garand was that it fired as fast as was necessary, that the Chinese Communists could not long sustain a fire fight because their full auto submachine guns quickly shot up their ammunition. The semi-auto fire of the Garand became a positive virtue.

The other reason is a less innocent one. The M14 in full and semi auto undoubtedly comes under the classification of a "fire-arm," that is, a machine gun, under our Federal Firearms Act. If and when it is generally issued, it must be made available through the DCM to our civilian rifle clubs, thus putting machine guns into the hands of thousands of citizens. The adoption of a weapon nominally capable of only semi-auto fire, but capable of being easily altered to full auto, may be the Army's way out of this difficulty.

However, this is a most unsatisfactory solution from the standpoint of military training. Anyone who has been trained on the Garand can master the M14 in semi auto with five minutes of instruction. The difficult part is in full auto fire, requiring different holding, trigger control, and even aiming techniques. Bill Edwards and I proved this to our own satisfaction in the course of these tests.

Edwards has had some experience with full auto fire from light-weight rifles, having fired the FN, the Fairchild AR-10, and the T-44. He had no great difficulty in holding the gun down for a full magazine blast at ten yards, putting all his shots in about an 18 inch circle. This is effective "tommy gun" type fire. On the other hand, I had never fired a light automatic from the shoulder before, and could barely hold half a magazine on the backstop.

To make matters worse, the conventional type rifle stock used on the M14 is not well designed for full auto fire; a straight line stock, such as that used on the Johnson machine gun, the FG42, the Fairchild, or the FN, would be much better for this purpose.

An early 7.62 NATO caliber experimental rifle, the T-25, was tried by Ordnance with a straight stock and high sight line, but the idea did not catch on.

It all adds up to either the ineffective use of the rifle in full auto fire, or greatly expanded fire training schedules. If the DCM is not allowed to distribute full auto rifles, if we are not allowed to train men in their use before induction, then the time for this training will have to be found while they are in uniform, a much more expensive process. Further, the fundamental idea of training a backlog of civilian marksmen, which is the original basis of the whole DCM program, will be completely subverted. Apparently, the Treasury Department, through the Federal Firearms Act, has dictated a major design feature on our basic infantry weapon, hampered the work of the Director of Civilian Marksmanship, and definitely altered the US Army training schedule.

The military value of this full auto fire feature, in the hands of well trained troops, is unquestionable. The rate of fire of the M14 is high, 750 shots per minute, and even a well trained soldier would have trouble keeping more than two or three shots on a silhouette target at 100 yards. But by firing in short bursts a squad can lay down an impressive volume of fire in this manner, enough to "keep their heads down" while the squad is maneuvering into grenade range. In street fighting and in night attacks the M14 has been designed to perform the same function the M3 submachine gun does now, and do as good a job. Against light unarmored aircraft, such as the scouting and troop carrying helicopter, it will be most useful.

M14 is supposed to replace the pistol, carbine, Garand, submachine gun, and BAR. Nothing will ever replace the pistol, although it seems that nothing will ever convince the US Army of this, either. The carbine once was supposed to replace the pistol, too. But the M14 could handle all of the other jobs without any trouble.

There seems small room for doubt that the next real national emergency will see an actual invasion of continental U.S. and the widespread issue of the M14 to civilian militia. For that reason it is reassuring to know it will swallow sporting fodder off the local hardware store shelf. The action has 30 years of research and development behind it, and is one with which millions of ex-GIs are familiar. It is the most flexible weapon we have ever made, capable of accurate single shot fire, tommy gun spray, or the short jabbing bursts of the light machine rifle. It is lighter, easier and cheaper to manufacture, and more rugged than the Garand. It looks and handles like a good sporting rifle. Altogether, we have an Army rifle to be proud of.

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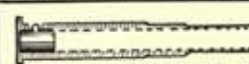
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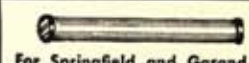
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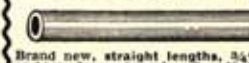


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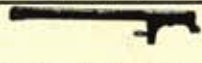
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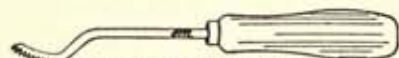
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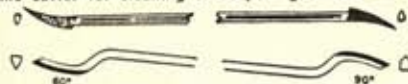
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LET'S TEACH OUR COPS TO SHOOT

(Continued from page 21)

found in a police department. Sometimes a civilian instructor is needed to set up a training program and to develop police instructors who can carry the program along.

There must be motivation for continued high-level performance. It is not enough to say, "If you do not learn to shoot well, you may get killed," or even, "If you do not shoot a certain score, you will be fired." The threat of death is vague—each man thinks "that could happen to the other fellow, not to me"—and the threat of dismissal if a certain level of proficiency is not reached, will push an officer to that level but not necessarily any further. Incentive in the form of marksmanship badges, shooting pay, and/or credit toward promotion, is far better.

Commendations, whether they are formally drawn up in certificate form suitable for framing merely a kind word from a superior officer, are very encouraging. Marksmanship badges are stimulating in that they are tangible evidence of superior accomplishment. Qualification for marksmanship badges should be high enough to give them real significance, but not so high as to appear impossible of attainment and discourage men from trying to win them. Some organizations compromise by authorizing two or more separate badges for different levels of accomplishment.

Cash awards for superior marksmanship are even better than badges. A few dollars added to the paycheck each month, or a reasonable cash award each year, serve as both material reward and commendatory recognition. But the best and most intelligent incentive for superior accomplishment in marksmanship by a police officer is to make it an element in his fitness for advancement. In this way there is both tangible and intangible reward for proficiency, which will be encouraging to all levels.

The development and support of a pistol team to represent the police organization in tournaments is wise. It stimulates shooting interest inside the department; it produces publicity which adds prestige in the minds of honest citizens and warns the criminal elements that marksmanship is being stimulated. A major tournament is a fine spot to make contact with other policemen and representatives of arms and ammunition manufacturers, to pick up latest developments in firearms, ammunition, shooting technique, and teaching methods.

Effective training can be accomplished best and most efficiently with the weapons and ammunition that will be used by the police officer on duty. Economy and ease of training are to be considered, but most important is the level of proficiency to be attained by the man on the job. It is true that the cost of .22 Long Rifle ammunition is about one fifth that of .38 Special, and it is reasonable that a trainee will reach a certain score over a pistol course sooner with a .22 caliber target weapon than with a service arm. However, the cost of the ammunition is only part of the cost of training a man to shoot, and he is still not completely trained when he learns to shoot the .22 caliber. And when the trainee shifts to the service revolver, he suffers a sharp and discouraging slump from which some never

recover. In classes trained under my supervision it has been uniformly apparent that those trained all the way with the service revolver were further ahead with it at the end of training than previous or subsequent classes trained partially with .22 weapons.

Reloading enthusiasts offer handloading as the solution to the cost problem in police training, because it offers the equivalent of service ammunition at lower than factory ammunition cost. Others object that reloaded ammunition is neither as safe, reliable, or accurate as factory loads. This depends upon the materials, equipment, and especially upon the loader. I have used many rounds of handloaded pistol ammunition in competition. Some was at least equal to factory target loads; some was not. The economy of reloading depends upon the skill, speed, and pay rate of the reloader. If only the cost of components is considered, it is very economical. The sportsman reloader may look upon time so spent as recreation, but the police reloader will usually be in pay status and his pay eats up part of the saving. The advisability of reloading for economy will depend upon the particular situation in each department. If handloading is selected, adopt a load that gives as nearly as possible the same bullet weight and muzzle velocity as the service load used. Do not train with a squib load and expect to fire fast and accurately with service loads.

A variety of both bullseye and silhouette targets and numerous courses of fire are available to groups for training and qualification. The silhouette targets are more realistic and attract the attention of the shooter. They are usually a lot easier than the bullseyes, which may explain some of their popularity. The bullseyes are a more accurate measure of accuracy of fire. They are, therefore, more helpful to the instructor in testing and evaluation, both of which are important in any training program.

The Standard American Target for 25-yard timed and rapid fire is a very useful one in the bullseye class. The Army Target E portraying the silhouette of a kneeling man, the Colt or Globe Silhouette Target, and the International Silhouette Target are all used in various forms of combat type courses of fire. The international type silhouette with its close scoring rings offers a good combination of realism, eye appeal, and demand for accuracy.

An agency adopting a course of fire may even design one to fit its own particular needs. That the course should first of all be safe to fire is elemental. It must be sufficiently difficult to avoid complacency by above average marksmen and still within reach of the average. The targets and courses of fire should be well known in order that supervisors may compare the accomplishments of their agency with those of other shooting groups. For example, the Camp Perry Course is familiar to thousands of American pistol shooters. A supervisor receiving a report that a division or force averaged a certain score over it has something tangible. He can compare it to scores of police officers in pistol tournaments and to the averages of other departments and agencies.

A course that is practical in training a man to defend himself in a gunfight must in-

volve speed, accuracy, long and short range, single and double action, drawing and quickly hitting the target without aiming, and firing in the most advantageous positions. The practical objective is to enable the police officer to hit his target, which may be an armed man, at the greatest distance, in the shortest time, with the most certainty.

Accuracy is the most important element. Without it nothing else matters. The fired shot which misses has wasted the policeman's time, increased his chance of being hit, and created a hazard to any innocent bystander. I have been told that Hugo Emerson when he was writing "The Outlaw" asked Pat Garrett whether speed or accuracy was more important to a gunfighter. Garrett is supposed to have replied, "Speed is important, but accuracy is fatal."

Nevertheless, any combat course for police should teach a man to shoot fast as well as accurately. In some cases, at close range, the officer may have to draw his gun and fire as quickly as possible by pointing without aiming. He must be trained in this. American police revolvers may be fired either single action or double action. Each method has its own advantages and disadvantages, and the police officer should be trained in both. Double action is fine, even essential, for fast, close-up combat; but not ALL gunfights occur at close range. I have known of affrays at ranges up to 150 yards in which a revolver was used very effectively. A long range stage in a practical revolver course will develop proficiency in that type of firing.

Prone, sitting, and kneeling positions have advantages that should be utilized and incorporated into combat firing courses. Also, a man should be taught to utilize any available rest in an emergency. But the use of positions and rests should not be overdone to the point that an officer is not taught also to stand up on his hind legs out in the open and shoot fast and accurately. Gunfights, like battles between armies, are still won by the people who get there first with the most, not by one who hides.

Various pistol courses partially fill the requirements of an ideal all-around course for police. The Camp Perry Course, tough even for the good shots and still within reach of the average officer who sincerely tries, is an excellent bullseye course. It is fired on the Standard American Target for timed and rapid fire at 25 yards in three stages. The slow fire stage allows two and one half minutes for each of the two five-shot strings. Timed fire has two five-shot strings with a 20-second time limit for each, and rapid fire has a 10-second limit for each of its two five-shot strings. In this form it is known throughout the United States.

Capt. John C. Prehle, U. S. Army, in charge of the police phase of the Small Arms Firing School (Pistol) at the 1957 National Matches, used a practical pistol course fired on the International Silhouette Target. It included firing both single and double action in prone, sitting, kneeling, hiding behind a barricade, and standing positions, at ranges of seven, twenty-five, fifty, and sixty yards. It is a modification of the combined FBI Practical Pistol Course and the Border Patrol Silhouette Course, with the international silhouette target used in place of the Colt Silhouette to make it tough enough for competition shooters, and with the quick-

draw eliminated in the interest of safety.

For fast shooting, my pick is the Bancroft Quickdraw Course, which is popular among law enforcement officers in Louisiana and neighboring states. It is fast, well organized, easily managed, easily scored, and safe for trained men. It is fired on the Colt Silhouette Target or its equivalent at 15 feet. There are seven stages each of which involve drawing and firing as rapidly as possible. Scoring gives 60 per cent credit for accuracy and 40 per cent for speed—and those Southerners do mean speed. At one stage, if the shooter takes more than one and seven-tenth seconds from signal to draw and fire five shots at a single silhouette, he begins to lose points under their sliding scale for computing "time credit". When the seven stages are finished, the competitor has fired on single targets, double targets, one shot on each of five targets in a battery, standing facing the target, standing with back to target, walking toward the target, away from the target, and to right and left of target. He has fired all of some strings with one hand. In others he has changed hands part way through. With good range operating personnel and only one battery of targets, a competitor may be fired every six or seven minutes with each stage timed and scored separately.

There are various mechanical training aids. One elaborate system for those who can afford it portrays actual situations on a movie screen, with sound effects, and tests not only marksmanship but judgment and decisiveness also. Another automatically signals the beginning and end of a time limit, registers time required for drawing and hitting target, and indicates location of hit within certain areas. For the ultra fast drawers, a machine measures the time in hundredths of a second from the time the hand starts to move until the shot is fired.

Any course used should be easily adaptable to systematic records which indicate to the instructors and supervisors the advancement or failure to advance of any individual officer or all officers in a class. The firearms instructor or range officer should keep a semi-permanent record of each officer's score at each stage each time the course is fired. This will help him to spot each officer's weak points and the weak spots in his entire program. The permanent personnel record of each officer should contain his score or classification after each firing.


The firearms training program may be short or long, intensive or cursory, and may tend toward competition firing or short-range combat firing. Whatever its tendency, the primary objective should be the development of marksmen the least of whom is more than a match for the most skilled criminal likely to be encountered. There are few things less desirable than second place in a gunfight.



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"COWBOY, WHAT'S YOUR GUN?"

(Continued from page 25)

Gordon stepped into the house for a moment and reappeared with the strangest contraption I have ever seen in the hands of a cowboy. It was one of those foreign-made, over-under rifle-shotgun jobs. Though it looked strange in the hands of a man like Gordon, it was really a smooth little number. It had a 16 gauge shotgun barrel on top of a 7 mm rifle barrel. The shotgun barrel was full choke, and the rifle barrel took the 7 mm rimmed cartridge. There was some neat engraving on the receiver: on one side, a timid Roebuck was tiptoeing through the forest, and on the other side a bold stag, rack laid back along his bull neck as he bugled his wild challenge to the wilderness. The barrels were 26 inches long, and their soft, velvet blue made them extremely attractive.

Gordon handed the gun to me, sat down on the porch and lit his cigarette, and while the sun went down and darkness crept quietly across the sand hills, he told me the following story.

"You remember a few winters back when that dog-gone snow storm hit this country and froze everything in it? That was the time that feller got out of the bus out in New Mexico and darn near died walking to the next town to get help for his passengers. That boy had guts . . . Well, I was out in that snow storm too, trying to save a few doggies. I managed to get some feed to them, and by mid-afternoon was able to turn my attention to other things. One of these things was the fact that I had seen nearly a hundred ducks come over, and they looked to me like they were lost and hunting for a place to let down the flaps.

"I wished I'd brought my Model 12 Winchester; that's a real duck gun. But that morning I had grabbed this combination job, thinkin' that I might run onto one of those coyotes that had been eye-balling the calves. I've got a .30-30 that has rolled a few coyotes, but they had gotten kinda wild and I knew that 7 mm barrel would reach out and get 'em with the hand-loads I've been using. Anyway, that's the gun I had with me, and it was too rugged a ride to go back to the ranch house just to change guns. "I left old roan about a hundred yards from the pond where I figured the ducks would be, and slipped up behind the dam; and when those ducks came boiling up, I let 'em have it. I got the mallard I aimed at, and a pintail just beyond him. Some ducks circled and came right over my head, and I grabbed another shell out of my pocket and dropped another mallard. That's within one of the limit, and good enough for me!

"Well, I collected those ducks and headed for home. I wasn't more than a mile from the ranch house when I spotted a coyote trying to dig a rabbit out of a hole. The coyote saw me about the time I saw him, and took off. Every few jumps he would throw a glance over his shoulder to see what I was doing. What I was doing was to get off my horse and walk several feet away from him and kneel down in the snow, with my elbow resting on my knee, waiting for that coyote to do what they'll do nearly every time. If a coyote is headed for cover and you fire at him and miss, he really throws it into high gear. He'll zig-zag, and he's plenty hard to hit. With a repeating rifle, you can swing ahead of him and keep throwing lead and maybe cut him down. I

have killed coyotes that way, and I've missed quite a few, too. But with this shotgun-rifle job, I just had to sit tight and wait for that fatal moment when, nine times out of ten, a coyote, if not fired on, will stop and turn broadside to look you over for about two seconds before disappearing into the brush. At about two hundred and fifty yards this coyote did just that. I was squeezing the trigger by the time he came to a full stop. The 175 grain bullet caught him, and he was dead by the time he hit the ground.

"That proved it to me. This gun was the only one in my rack that could have taken both the ducks and the coyote. Since then, I've brought in combination bags of quail and coyotes, doves and badgers, foxes and ducks. I'm not saying that the combination



Fired from rest, the big revolvers can "make-do" if a rifle is lacking.

gun is the ideal duck gun or an ideal coyote gun either; but it's a fact that it can take 'em both."

That's the idea, you see: you pick a tool to do a job; a tool that's handy to carry, ready when you need it. It's not like choosing a gun to be taken on a long, expensive hunting trip after a special type of game. A cowboy's gun must be flat, short, and light; must ride closely and tightly to the horse. The traditional old thirty-thirty was such a tool; still is. And with an old six-shooter on the saddle or on the hip, a cowboy is well equipped to take care of a rattlesnake, coyote, or any other varmint that crosses his path. Gordon's over-under goes a step further, readies him for that covey of quail that flushes just when a man is thinking of supper, or for the pair of mallards that rises from the pond when the cowboy stops to repair a windmill.

There is another interesting feature about this particular gun which I have not mentioned. There is an extra "insert" barrel that is exactly 12 inches long and is chambered for the .22 hornet cartridge. It slips into the shotgun barrel and locks there. We tried it out with open sights and found it to be surprisingly accurate. We then mounted a scope on the gun and sighted it in for jackrabbits at 150 yards. It's a deadly killer at that distance; and the hornet barrel and the 7 mm barrel will put their bullets very close to the same grouping—close enough so that no allowance in sighting need be made when shooting at game as large as a jack-rabbit. A leather scabbard for the hornet barrel, so that it can be carried conveniently on the belt or saddle when not in use, completes the picture. Incidentally, the 7 mm rimmed case is a cinch to form by slightly shortening the .30-40 Krag or .30 Army case and necking it down to 7 mm.

Here then is a short, light, flat gun that

may be carried loaded with a 7 mm cartridge and a .22 Hornet, or with a 7 mm cartridge and a 16 gauge shotgun shell. Or the shot-gun-to-hornet change-over can be made in about one minute. Ordinarily, when riding the range, Gordon keeps it loaded with the Hornet and the 7 mm. That way, the rider is fairly well prepared for any varmint or four-legged game he may jump, including deer and antelope. Then, if he spots a covey of quail, a pheasant, or a brace of ducks, he can remove the Hornet barrel in a very few seconds, insert a 16 gauge shotgun shell, and he's in business.

Well, it all just goes to show that there are a lot of different ideas as to what gun serves a cowboy best.

One cowboy I know uses an 8 mm Mauser, as issued, and finds it adequate for everything from mice to moose. On the other end of the same ranch lives a cowhand who converts all his guns to suit his fancy. He builds nice stocks for them, shoots light, high velocity bullets, knocks over prairie dogs at three hundred yards.

A friend of mine tells me of a cowboy he knows in Nevada who has shot out three barrels on his .22 Varminter.

It all boils down to this: cowboys who are gun enthusiasts rank right along with the rest of us as individuals, and any gun enthusiast will agree that, for each situation requiring a firearm, there is bound to be one gun more suitable for the job than any other. The hitch is that gun lovers often disagree on which gun is most suitable for a given job. This keeps the gun manufacturers happy and affords the shooting fraternity endless opportunity for argument, experimentation, and just plain shooting. The cowboy is apt to be just as argumentative, just as given to experimenting, just as keen about shooting as anybody else.

A .30-30 is a pretty fair coyote gun. It will do nicely for deer in many localities. It is O.K. for most varmints and many species of large game, provided the cowboy is not

especially interested in making extremely long shots. It will eliminate a calf-killing dog about as efficiently as any gun on the market. There are a lot of .30-30's still riding in cowboy scabbards. But the .30-30 has its limitations, and any gun-wise cowboy would be quick to admit it.

Many modern cowboys prefer such calibers as the .22 Hornet and the .218 Bee. I suspect that these same cowboys will soon decide that the new 6 mms, such as the .243 Winchester and .244 Remington, are just about ideal for most range shooting, since they combine the qualities that these cowboys say they look for in a gun. These qualities are flat trajectory, absence of ricochets, and adequate power for anything up to and including deer. Strangely, extreme accuracy is not often mentioned. It seems that the average cowboy feels that most guns will shoot straight if you hold them steady.

Then there is the old reliable thumb-buster, or Single Action Colt. Long, long may she survive! With one of these in a holster, tied down in the best gun-fighter tradition, a man feels like a man. The gun lover who has never strapped on one of these, whipped it out and mowed down a fence post, has never really lived. But again, alas, those days are gone forever. Oh, you will find many a modern cowboy who proudly possesses one of these old six-shooters, and you will have a hard time buying it from him; but what he carries in the Jeep is just as likely to be a .357 Magnum, or even a .45 Automatic.

Hollywood notwithstanding, the prairie-dog and the antelope have replaced the buffalo and the Indian, and the coyote has displaced the outlaw. But the cowboy goes on forever, and packs his guns with him. Maybe they're the same guns his daddy carried and maybe not. Today's cowboy is a pretty savvy sort of an hombre and he doesn't fit into any one type or pattern. He never did. Neither do his guns . . . and they never did, either.

A RANGE COULD MAKE YOU INDEPENDENT

(Continued from page 28)

attached to frames at 100, 200, and 300 yards. For special tests, targets are set up at 400 and 500 yards. Distances were determined by a surveyor and are accurate to within less than a yard. A 1,000-yard range also was surveyed, but no one seems to be interested in it.

The smallbore range at the lower level has ten bays for position shooting, and six benches. End benches often are reserved for parent-and-child combinations, which are encouraged, and for them there are targets at 50 feet. Regular NRA smallbore targets at 50 and 100 yards are used otherwise.

Changing of targets is something of a ritual at the Hutton Rifle Ranch. Several minutes before targets are to be changed, Hutton or one of his assistants (he has at least two and sometimes three or four aides) blows a whistle and announces that the change is imminent, to allow anyone to finish his string uninterrupted. Then just before the targets are changed, the whistle is blown again and everybody is required to leave his rifle in place at the front of the bay, with bolt open and muzzle up, and retire to the back of the shelter.

When every man has left his gun, one of Hutton's assistants drives his car out to the targets, sometimes taking along one or two

volunteers from among the shooters, to change all the targets on the one trip. Nobody is allowed to touch a gun during the target-changing interval, and nobody other than the target detail is allowed in front of the firing line.

All his emphasis on safety precautions is worth while, Bob Hutton believes, as a contribution to the good of shooting in general. "My little sermons on safety sometimes make the hunter angry—the biggest menace we encounter is the guy who brags about getting a deer every year and says he has no use for target ranges—but I think the trouble is well justified if our efforts have just possibly helped to prevent just one fatal hunting accident." Hutton is particularly solicitous of beginners, gives them free coaching to get them started on the right track.

It is a standard experience to have a man come to the range with a brand new rifle and scope sight, eagerly sit down at a bench and start banging away at a target. After a few shots, he goes to the office with the confession that he can't even hit the target, has no idea where the bullet is hitting. Hutton or one of his assistants then takes over the gun, fires a shot into a target at point blank range of 10 yards or so to determine

(Continued on page 58)

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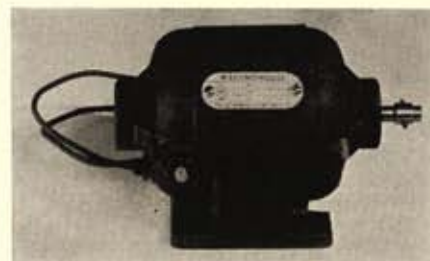
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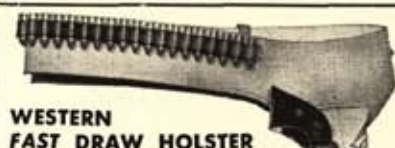
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(Continued from page 55)

the direction of the sighting error, adjusts the sights, using brass punch and hammer if necessary in the case of open sights. The man—he may not be a beginner, either—is then given a little coaching on bench shooting. The corrected gun is returned to him, and before he leaves the range he probably will be hitting the black at 100 yards with open sights, or getting into the 10 and 9 ring if he has good receiver sights, or doing still better with a scope.

All assistance is given with utmost tact, even if the visitor is obviously one of those with the tendency, well known to all range masters, to close his eyes and jerk the trigger. "One thing we have learned the hard way," Hutton says, "is not to deflate the ego of the mighty hunter within the sight or hearing of his young son, wife, or girl friend. We never speak in a loud voice except when we are calling a halt to all shooting for target changes."

Spectators, whether family or friends, are kept from disturbing the concentration of the shooter by means of judicious printed signs in the shooting area which make it clear that only shooters are allowed in the bench-rest areas. Helpers who wish to man the scope to spot the shots are regarded as shooters, and so are coaches. They must pay the shooter fee. The fee is \$1 per shooter per day, plus an extra charge of 10 cents for each target used.

Besides offering purely target facilities where the shooter can test the accuracy of his rifle, his ammunition, his gunsights, and himself, the Hutton Rifle Ranch has a chronograph setup for measuring muzzle velocities, and loading tools for those who wish to experiment with special charges.

Much experimental work has been done at Hutton's, much of it by Hutton himself. The National Rifle Association has shown interest in Hutton's range for many years. In 1949, 1950, and 1951, working with the late Al Barr of the NRA, Hutton conducted a sort of shooting symposium in which shooters from all over America went to Hutton's range to test their wildcat rifles for drop, accuracy and efficiency.

At that time many new wildcats, all described as "improved," were being marketed and some of the manufacturers were making extravagant claims as to velocities, Hutton recalls. "Chronographs were not available then, but I had a rifle range. All the available .25's and .30's were thus tested. Each rifle was zeroed for 100 yards, then fired at 200, 300, 400, and 500 yards with no change in sight setting or aiming point on targets. With scope height taken into consideration, we came very close to learning the exact muzzle velocities, as later tests confirmed."

Some of the information thus obtained was used by Barr in the NRA Handbooks, and all of it appeared in a series of three articles authored by Hutton, called "Where They Hit," in "The American Rifleman."

"Also—again thanks to Al Barr—we have a world's velocity record," Hutton says. "In

1946, bullets were hard to come by and lead was still almost unavailable as a result of the wartime shortage. The famous cartridge designer, Ralph Waldo Miller, told me that Kirksite "A", a zinc alloy, had worked fine for him, and this metal, after many experiments and with help and suggestions from Al Barr, ultimately produced the fastest bullet to have been fired from a rifle—4,800 feet per second in a .220 Swift.

"I think the main contribution my range made to shooters of that time was to demonstrate that the way to find out what a rifle will do is to shoot it under the best conditions possible. Today, if you study the ratio of powder weight to bullet weight, chronograph your load, and then fire under many conditions from 100 to 300 yards, you know a lot about your rifle—more than anyone else, including the slide rule boys. That is because no two rifles, no two rounds of ammunition and no two shooters are alike."

Besides the amateurs, Hutton has had important designers and manufacturers as customers, such as the developers of the Armalite rifle which was given all its trial shootings on Hutton's range.

Although Hutton is now an expert and an authority on many phases of shooting, he was by no means such an expert when he first got into the business. In fact, he got into the business of running a rifle range in much the same fashion which George Bernard Shaw once said is common to writers and at least one other ancient profession: "first you do it for your own pleasure; then you do it to accommodate a few friends; and finally you do it for money."

Hutton did some smallbore shooting in these hills just as other boys do, starting when he was about 12 years old; but didn't do any serious target shooting until in 1939 when he learned of the NRA, joined a small-bore rifle club at the Los Angeles Times, where he was society editor, and invited other members to join him for shooting in the hilly land which he owned above Topanga Canyon. (The land has been in the Hutton family since 1898, when Bob Hutton's father, the late Judge George H. Hutton, purchased it from a homesteader. Club members insisted on paying for the targets they used, and that started the ball rolling.

Soon, members of the Times Rifle Club and members of other gun clubs in the Los Angeles area began to use Hutton's ranch for sighting-in high powered rifles before going hunting. They found that shooting at paper is a lot of fun, so they returned again and again. Some have been steady customers for more than ten years.

In 1943 the range, at first quartered in an old hay barn, was opened to the public, without any ballyhoo, and it has grown in popularity until it now handles about 8,000 customers every year.

The great majority of Hutton's regular customers first came to him on the recommendation of gun store owners to sight in their rifles for hunting and then proceeded to convert themselves, with a little help from



CLEAR SIGHT SCOPE CAPS

The world's finest protector, optic flat glass (NOT Lucite), Neoprene bodies. Many thousands pleased users. \$3.25 pr. Filter lens \$4.95 ea. Send for FREE Catalog on these and on the world's largest stock of quality POINTER pistol stocks. Also genuine Pearl, Ivory and Stag. Complete stock—late serial numbers Great Western Single Action Guns. Box 360, SOUTHWEST CUTLERY & MFG. CO., Montebello, California.

Hutton, into target shooting enthusiasts. Here is how Hutton describes the typical procedure:

"Let us say Joe Doaks has purchased a new rifle. He asks the man behind the counter where he can sight it in, since he's eager to shoot it. One of my business folders, with a map on the back of it, is put into his hands and he is informed by the clerk that it costs him a dollar a day per gun plus a dime each for targets. That gets him up to my range and if he is a typical beginner—or even an oldtimer at field shooting if he is honest about it—it doesn't take him long to find out how much room for improvement he has in rifle technique.

"Before he departs, Joe has watched other shooters, talked with them at the benches at the rear of the range, and is beginning to feel interested in trying new ammunition, planning to reload his own cartridges, deciding to buy better sights. And so a nice little order goes right back with Joe to his sporting goods store. First he buys more ammo, then maybe a scope, then a recoil pad. He's thinking, too, that he really should get a stock that fits him better, and a shooting coat that will make him look like a real pro.

"Within a year, Joe may be having new barrels made, hiring us to chronograph his loads and make graph paper reports of his trajectory, or going in for such refinements as a \$25 trigger.

"A new sport has been introduced to Joe. He buys thousands of primers, primed cases, dies, presses, powder scales, bullet molds, lead—everything that has to do with shooting—all because of our little range. Without the range he probably would have started right out on a deer hunt without trying the rifle, would have had to dream up an alibi for having missed his deer, and, by the time the season was over, might very possibly have decided to give up a pastime for which he seemingly wasn't fitted.

"One store sent us close to five hundred shooters last year and the proprietor tells me that more than half those people came back for additional equipment and ammunition to improve their shooting.

"Our policy is to sell nothing directly in the way of ammunition or rifle equipment, but to suggest the shooter go right back to the store that sent him to us. This encourages dealers to recommend us. If no gun store has sent him, we recommend the nearest dealer in his neighborhood in whom we have confidence. We permit one store to leave a small stock of ammunition with us, which we sell on behalf of the store in case a shooter runs out. We're not in competition with dealers; we are their allies, and they are ours."

Hutton stresses his cooperation with dealers because he thinks it's of greatest importance in the formula for anyone else who hopes to make a success of a commercial range. He would like to see many more ranges patterned after his method of operation. Any group of shooters, such as members of a gun club, might have the convenience of a range, he suggests, by finding

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WITHOUT DOUBT the most shattering rifle opportunity ever to befall American shooters. An exclusive deal with England permits Ye Old Hunter to offer these superb 10 shot bolt action Enfield repeating rifles at far less than the price of even a .22 American sporter. They all take standard U.S. sporting .303 Ammo available everywhere. Never before such magnificent guns at such bargain prices. Get the Greatest American Gun Bargain from Ye Old Hunter! Truly you will never again have such an unbelievable opportunity. Buy a complete set Deliveries will begin in Early Summer. ORDER NOW.

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a farmer or rancher or other land owner within reasonable driving distance who also is a gun enthusiast, and pointing out to him the profit possibilities in operating a rifle range. The profit incentive should be far more effective in assuring a first class rifle range than mere enthusiasm on the part of volunteers in a club, Hutton believes, and cites himself as an example.

Hutton does not underrate the value and importance of gun clubs. He works with them as closely as he does with the sporting goods dealers. He often ropes off a part of his range for exclusive use of a club which has made reservations. But he is convinced that an individual pursuing a profit—and the profit can amount to a good living—will do the best job in operating a range.

The firm which sells Hutton targets has informed him that he handles a bigger volume than any club-operated range in the West, even though some of them are much larger. He operates with the blessing of the sheriff of Los Angeles County, of the forestry department and of other public officials. This he feels is partly a tribute to his emphasis on safety rules.

Hutton welcomes wives and children of hunters to his range, although he insists that small children be attended by adults at all times or be left at a distance from the firing lines. He thinks it is good business to encourage the riflemen to bring their families, not only because wives frequently are converted into shooting customers and because the children will grow up to be shooters, but because he thinks the men will get out to his range more often if they feel it is all right to take their families along. Hutton's welcome to women shooters is expressed by, among other ways, using four pictures of a woman in his latest leaflet advertising the range.

Hutton's philosophy of shooting, which he tries constantly to impress on his customers, is expressed succinctly in the leaflet by a quotation, standing alone without comment, from Colonel Townsend Whelen, dean of modern riflemen:

"Good rifle shots are made—not born."

ELMER KEITH SAYS . . .

(Continued from page 8)

Officers' matches at McCall, Idaho, shooting my 173 grain Lyman bullet backed by 3.2 grains Bullseye from a Smith & Wesson Outdoorsman. The first prize was a Colt Python .357 Magnum revolver.

Unique as a Shotgun Powder

Unique rifle and pistol powder has proven a very good and reliable propellant for heavy or Magnum shot shell loading. For the Magnum ten bore with two ounces of coarse shot, use 40 grains Unique in the 3½" case with 60 pound wad pressure. Thirty-eight grains of Unique with 21/5 ounces heavy shot also works very well. For the Magnum 12 bore with 3" case and 1½ ounces of shot, use 28 grains Unique with 60 pound wad pressure; and for the Super 10 bore also with 1½ ounces of shot, use 33 grains Unique with 60 pound wad pressure. For standard 2¾" 12 bore heavy duck loads, use 26 grains Unique with 60 pound wad pressure.

Engraving, Plating, and Fancy Pistol Stocks

The Gun Reblue Co. of Biltmore, N. C., can supply fine engraving of hand guns or other arms, and also plating in gold, silver, copper, chrome, or nickel. They also fit fine ivory and some pearl as well as fancy wood stocks to about all models of handguns.

Temper of Pistol and Revolver Bullets

After a lifetime of experimenting, I have come to the conclusion that a temper of one part tin to 16 parts lead is about the best possible mixture for most revolver bullets. But this rule does not hold for loads to be used in the Smith & Wesson 1917, 1950 Target, or 1955 Target revolvers in caliber .45 A.C.P. For these three S & W arms, with their six narrow and shallow lands, as well as all auto pistols, a temper of one part tin to 10 parts lead is better, as they require a harder bullet to hold the rifling of these .45 revolvers and for sure functioning in most auto pistols. Bullets should be sized exact groove diameter for most revolvers, and not over .001" larger than groove diameter for most auto pistols. No money is to be made by resizing bullets ahead of 15,000 to 30,000 pounds pressure in the thin walls of a revolver chamber.

Ready Cast and Sized Handgun Bullets

Wisler Western Arms Co., 205 Second St., San Francisco, Calif., furnishes a very complete line of pistol and revolver bullets, perfectly cast, sized, and lubricated in most calibers and ready to load. This includes the line of Keith-Lyman bullets. They can also furnish them full copper-plated if desired, and these Keith slugs, copper coated, are especially good for all high velocity .357 and .44 Magnum reloads. Gas checks, while useful in auto pistols and reduced rifle loads with hot powder charges, are about as useful in revolver loads as two tails on one hound pup. They cannot upset to fill the oversize cylinder throats as they should when fired, and while they will scrape lead from the bore of the gun, they also increase the tendency to force gas past them in the

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cylinder throats, causing tinning and lead plating of the face of cylinder and barrel throat. Soft, pure lead bullets have no place in a revolver and upset and swage out of shape like putty in the barrel throat, causing higher pressures, leading, and inaccuracy. Most revolver factory loads with lead bullets are too soft for best accuracy with hot loads.

Short Shells In Long Chambers

Many shotgunners ask me the effect of using short shells in long Magnum chambers. Usually, in full choke Magnum 10 or Magnum 12 bore guns, when you use the standard Super 10 bore 2 7/8 inch case loads with 1 5/8 ounces shot, in the ten bore, or in the 3" chambered Magnum 12 with 1 1/4 ounces of shot in the 2 3/4 inch shell, you will obtain about a modified pattern from the gun. My own Magnum ten bore, with most of the forcing cone removed, throws very high patterns with 2 7/8" Super ten bore loads with 1 5/8 ounces of shot, but this is an exception. Most Magnum tens I have tested, with the usual forcing cone and 3 1/2" chambers, throw a good modified pattern with the shorter lighter 1 5/8 ounce Super ten load.

The same is usually true of the 3" chambered Magnum 12. When used with a 1 1/4 ounce 2 3/4" case loads, you usually get a good modified choke pattern. The modified pattern is easy to hit with and offers maximum, even spread of shot and the big long range guns are thus excellent for average wild fowl shooting. This saves in ammunition cost as well as recoil on the shoulder. The big roman candle loads can be used for the long range, difficult, pass shooting.

Shotgun Sight

The Williams Gunsight Co., Davison, Mich., have developed a model of their excellent Foolproof receiver sight especially for use on shotguns, particularly repeating shotguns. This special sight carries an aperture nearly three times the normal size for use on rifles. It will enable anyone to sight in a shotgun to exactly center his pattern at any desired range; also permits sighting the shotgun for slug loads for deer shooting. The aperture is so large it does not slow one up in the least, and can be used in either trap or skeet shooting as well as all field shooting. Use of this sight takes a lot of guess out of shotgun pointing. Once the gun is sighted in, it will tell you instantly if your stock fits or not. Either the sights line up perfectly when gun is mounted hastily, or they do not, and one glance through the big aperture tells the tale.

Winchester Model 92 Caliber .44 Magnum

Ward Koozer of Douglas, Arizona, is now converting Model 1892 Winchester .38-40 or .44-40 rifles or carbines to .44 Magnum caliber by reboring a Model 94 Winchester rifle or carbine nickel steel barrel and fitting and chambering it to the Model 92 action. With some alteration to the cartridge carried, and with this rebored barrel, they

make excellent rifles for the .44 Magnum revolver cartridge. I had him build a carbine for me and fit it with Redfield Sourdough front and Williams Foolproof receiver rear sights, and it seems to stay on a silver dollar at 50 yards and makes comparable 100 yard groups. A very useful little car gun that will kill deer or similar game at close to reasonable ranges; it would also be a first-class police weapon. Handling the same ammunition as the Smith & Wesson and Luger .44 Magnum revolvers, it makes a fine rifle-and-sixgun combination.

Caps for Battery-Cup Shotgun Primers

Cascade Cartridge, Inc., of Lewiston, Idaho, have a shotgun cap for reloading the Winchester, Western, or Federal battery-cup shotgun primer. The original anvil is re-seated in the battery cup and the new cap is inserted with the anvil straight in the cap. The new cap should be seated .008" below flush and you have a new battery cup shotgun primer.

Tip On Bigbore Match Reloads

Many long-range match shooters are looking for the best in .30 caliber match bullets. One of the best combinations for the .300 Magnum match rifle is the Sierra 180 grain Match boattail, backed by 65 to a maximum of 67 grains of 4350 Dupont powder in the .300 H & H case. This combination is hard to beat in a good .300 Magnum bull gun.

Weaver K Model 60 Series Scopes

Bill Weaver has greatly improved his famous K Model scopes in his new 60 series. With these fine scopes, the shooter may adjust the elevation and windage dials to their full extent if necessary in sighting in his rifle, but the cross-hair post, or center dot, will remain in the center of the field of view. Weaver has also further improved the optics.

.300 H & H Magnum Load for Game

One of the most deadly .300 Magnum or .30-06 loads yet worked out for use on the larger fauna of this continent is the Barnes round-nose soft-point 250 grain bullet backed by 50 grains of 4350 in the .30-06 and by 60 grains of 4350 in the .300 H & H Magnum. It is also very good in the Big Weatherby .300 Magnum, but requires a still heavier powder charge.

For long range on lighter game, a very good bullet is the Nosler partition jacket in 180 or 200 grain weights. These fine bullets will expand reliably at long range, yet will not blow up at close range. The after half, being completely jacketed, carries on through the game. They have now been proved very deadly on most American game, especially on all the lighter big game. Use regular loads for .30-06 and 300 Magnum with these fine bullets.

For the African hunter desiring solids for his .30-06, .300 Magnum, or .375 Magnum,

7 x 61 Sharpe & Hart Norma Factory Ammunition

Yes, we have it available for immediate shipment from our main warehouse in Emmitsburg, Md., and at Oakland. Velocity of 3100 with 160-gr. BTSP bullet. Also unprimed cases. Schultz & Larsen sporting rifles M60 this caliber only are in stock for immediate shipment. Write for Literature.

THE SHARPE & HART ASSOCIATES, INC., 4435 Piedmont Ave., Oakland 11, Calif.

J. W. Hornady of Grand Island, Neb., now makes a special round-nose 220 grain solid bullet with steel jacket in .30 caliber and a similar 300 grain in .375 Magnum caliber.

Loads for Winchester .458

The best loads we have found for the .458 Winchester are 65 to 67 grains 3031 Dupont with either 500 grain or 510 grain bullets. The cartridge is a very accurate one and, with the excellent but expensive Winchester 500 grain steel jacket solid bullet, has already a well established reputation on elephant in Africa. Resize the cases full length and 65 to 67 grains of 3031 will usually duplicate the factory loads. As much as 70 grains of 3031 may be used if desired, as pressure is relatively low in all these big bore straight cases. The .458 as above noted is not the most powerful but is one of the most accurate of the big .450 Magnum cartridges, and has ample velocity for any great game shooting with picked brain shots at close to reasonable ranges.

HANDLOADING BENCH

(Continued from page 39)

small and short to be effective, but they actually group well at 100 yards. With a tight hold and much practice one can hit better than a shooter who isn't familiar with his long barrel gun at that range. So let your mark—I mean competitor—spot you a few points and pay you for educational instruction. One man quickly recovered the cost of his gun and picks up some ammo money occasionally. Learn what you can do consistently and allow a bit for error. A moderate load is better than a heavy one. After you master the squeeze and holding the too-small stocks tightly, you're in business, and if your ammo is good you can win.

Blanks for the Fourth?

MOST PEOPLE THINK blanks are harmless, and get careless with them—which is why they can be dangerous. But careful handloading can solve the problem of getting blanks for patriotic noise-making, or for firing in standard revolvers for track events.

Years ago, blanks were made for practically every standard caliber, from 4 mm on up to .56 caliber Spencer rifle. People failed to realize that these were or could be extremely dangerous. Accidents happened, and gradually all but a few calibers (such as .22, .32 and .38 S & W blanks) were withdrawn from the market. Their potential danger may be one reason commercial blanks are not supplied in popular sizes such as .38 Special, .357, the .44's and .45's. Yet they are much in demand, and would be far safer than the live ammo often used for home movies, celebrations, parades, and plays where noise and/or smoke is wanted. By understanding a few basic principles, you can safely load loud and effective—but not dangerous—blanks in practically any caliber.

If a mild report and no smoke is satisfactory, empty primed cases are good and cheap. Without normal chamber pressure,



★ PRECISION-CHAMBERED BARRELED ACTIONS

**STANDARD OR SERIES 300
FN ACTION OR HYA ACTION BARRELED TO
FINEST DOUGLAS ULTRA-RIFLED CHROME MOLY BARREL.**

✓ **CHECK THESE FEATURES:**
Now available in the .25-06 Cal.

CALIBERS:
220 SWIFT—22-250
243 WIN.—244 REM.
250 SAV.—257R—7MM
270 WIN.—300 SAV.
308 WIN.—30-06
and the NEW 280 REM!
Also the 7x61 Sharpe & Hart \$7.50 additional.

1. New standard FN Mauser Action.
2. Finest DOUGLAS Ultra-rifled, Chrome Moly barrel, with patented smooth hard 6 Gr. swaged "BUTTON" rifling.
3. Each unit precision chambered to mirror finish with proper headspace.
4. Each unit test-fired with sample fired case included for your inspection.
5. Length and twist as wanted, otherwise we will ship recommended length and twist.
6. Barrels have fine ground finish.
7. Choice of light-weight or sporter weight, medium heavy, or heavy weight barrels.
PRICES: for light or sporter weight (5-5 1/2 lbs.) \$74.00. Medium heavy, \$79.00, full heavy \$84.00. For premium grade barrel \$3.00 additional. For the new 300 series F.N. action or HYA Action (pictured above) \$10.00 additional.

FLAIG-ACE TURNED AND SEMI-INLETTED STOCKS for ALL POPULAR RIFLES

RARE TURKISH CIRCASSIAN RIFLE BLANKS

Beautifully grained RARE TURKISH CIRCASSIAN WALNUT. Imported from Turkey. For the first time in many years we now offer this distinctively attractive, light-weight, yet very close grained walnut. Standard grade Circassian turned and semi-inletted stocks \$16.50 and \$19.50. Semi-Fancy grades: \$25.00, \$30.00 and \$35.00. Full Fancy grades: \$40.00, \$45.00 and \$50.00. Circassian Walnut Shotgun Blanks.....\$10.00 to \$30.00

FREE TO GUNSMITHS: Big 4-color chart showing Flaig's varied GUN STOCKS in natural color.

FINEST PENNSYLVANIA BLACK WALNUT BLANKS AND STOCKS

Rifle blanks, all grades, \$4.00 to \$20.00. Walnut shotgun blanks, \$1.50 to \$15.00. Walnut inletted stock for most rifles; standard \$6.00; xx grade (butt) \$8.00; others \$10.00 to \$12.00. Also Penna. burls and rare burls available NOW: xxx grade \$17.50-\$20.00. xxxxx \$25.00; super Burls up to \$35.00.

CURLY MAPLE RIFLE BLANKS: \$7.00 to \$30.00. Turned & inletted for most rifles, \$8.00 to \$35.00.

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Large over-size rough shaped HORN PISTOL GRIPS, 1/2" thickness, \$1.00. Genuine Horn Pistol Grip Caps with Engraved Screw, \$3.00.

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BOEHLER BARRELS, proof steel, semi-octagon, ribbed, matted entire length. Made by FRANZ SODIA of Ferlach, Austria, in .22, .25, .270, 7mm, and .30 caliber. Also now available in .243 and .244 cal. Highly accurate—in the white, \$45.00. (Fitted to your action, with sheared bead, complete price \$60.00.)

2-GR. SPRINGFIELD BARRELS \$7.00, Case of 10 \$55.00

NEW SPRINGFIELD 4-groove BARRELS.....\$11.00

New! Krag 2-Groove 30-40 BARRELS 23" or less in length. Fully chambered threaded. Only \$15.00.

4-GR. ORDNANCE BARRELS 23" long, fully chambered, threaded, blued, \$20.00.

New! MAUSER '98—30-06 2-GR. BARRELS 23" or less in length. Fully chambered & threaded. Only \$15.00. Note: Any of the above Barrels expertly fitted to your Action—headspaced and test-fired—\$2.50 additional.

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Model 1917—30-06 Cal.

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Enfield Excellent 5 Gr. Barrels.....\$12.00

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ENFIELD SPECIAL

18 Pieces—ALL NEW—\$6.00

Bolt with collar; bolt sleeve; magazine box; magazine spring; trigger guard with catch pin and spring; firing pin and spring; safety, safety block and screw; ejector follower (milled); seat spring and safety spring. All 18 pieces, only \$6.00 ppd.

NEW Springfield Nickel Steel Bolt \$3.50, same bolt altered for low scope with pear shaped handle like 70 Winchester, only.....\$8.50



ACE TRIGGER SAVER
\$2.50
For most rifles, shotguns and handguns.

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NOW AVAILABLE

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ACE DOUBLE-SET TRIGGER
\$10.00
Fitted to your Mauser or F.N. action—\$6.00 more.



Exclusive! NEW FLAIG-ACE FINISHED BARRELS

Made by a nationally known barrel-maker of highest repute, we now offer the patented "button rifled" smooth, hard, swaged, six groove chrome moly barrel of absolutely top quality, completely threaded precision chambered and crowned at a money-saving price.

- Immediately available for the FN Mauser, Springfield, Enfield and 722 Remington Action.
- Choice of LIGHTWEIGHT 22", SPORTER WEIGHT 24" and MEDIUM-HEAVY WEIGHT 26".
- Choice of Calibers: 220 Swift, 22-250, 243 Win., 244 Rem., 250 Sav., 257-R, 270 Win., 7mm, 300 SAV., 308 WIN., 30-06, 25-06 and the new REM. 222 also available for the 722 Rem. only.

ONLY \$24.00 COMPLETE. If you send in your action it will be headspaced, test-fired, and stamped for \$5.00 additional, including handling. ACE barrels now available for the 6.5 and 7.7 Jap rifle in calibers 220 Swift, 22-250, 243 Win., 244 Rem., 250 Sav., 257 Roberts, 7mm, 300 Sav. and 308 Win. at \$2.50 additional.

ACE BARRELED ACTIONS:

F. N. Mauser-ACE Barreled Actions in any weight or caliber as above, (white).....\$67.50

Barrels are ready to be turned into your receiver. They need only have headspace checked. DEALER inquiries invited and GUNSMITHS be sure to ask for our special descriptive literature on this time and money saving tremendous value item. RETURN PRIVILEGE IF NOT COMPLETELY SATISFIED.

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Write for Free New List #29.—We Stress Individual Service.

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RELOAD SHOTGUN Shells—Complete set of hand tools performs all necessary operations \$4.95 postpaid. Not a toy. No gadgets. One of the simplest, fastest and safest outfits on the market. Duplicates factory crimp. Satisfaction or your money back. Send for more details. No obligation. Pioneer Tool Co., Dalton, N.Y.

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HICKORY BEEF Stick. A 100% Pure Beef Summer Sausage, Mildly Smoked And Seasoned. \$4.98. 4 lb. Stick Post Paid. Check Or M.O. To Hickory Farms, Dept. G, 1200 Warwick, Toledo, Ohio.

NAZI UNIFORMS Booklet: "Uniforms-Badges-Intelligence Data German (Nazi) Forces" 64 pages, 35 pictures, some color. \$1.00; Kingstons, 920 Third, Seattle 4, Wash.

PEDOMETER, BRAND new by New Haven Watch Co. Measures the distance you walk. While They Last \$5.95. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

RIFLE SLINGS, leather. Army Surplus, 1 1/4 inch. Brand new, \$2.00 each. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

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DEALERS WE are now jobbers of shotshell loading components prepaid terms. Kempf Gun Shop, R.R. #3, Box 496B, Michigan City, Indiana.

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CROSSBOWS For Fish-shooting, Hunting, Target. Factory-Direct-Prices. Jayco, Box 1355, Wichita, Kansas.

RIFLE SCABBARD. Western Boots, Clothing, Saddles. Free Catalog: Silver Spur, Box 1785 LL2, Fort Worth, Texas.

100 TRICK KNOCKOUTS For Self-defense, \$1—1c each. Priest, Box 251, Evanston, Illinois.

GOERG UNIVERSAL Hunting Scope Cover—90c. Goerg Enterprises, 3009 So. Laurel, Port Angeles, Wash.

FREE LIST! Books for collectors, shooters. Paul J. Drabek, Dept. H, 2885 Roosevelt Ave., Bronx 65, N.Y.

FUR RUGS (tanning, selling, mounting) Bear, Cougar, Tiger, M. J. Hofmann-Taxidermist, 1025 Gates, Brooklyn 21, N.Y.

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Don't Miss an Issue!**

primers will set back and make the cylinder difficult to revolve. The solution is to drill out the flash hole to about .125 inch. The case will be unfit for normal loads and should be visibly ruined, for easy identification. A good way is to file a deep V notch in the mouth. If you only require a few blank loads, and don't want to buy a full box of new empty primed cases, you can sock out the bullet with a Guns Inertia Bullet Puller.

Contrary to warnings by some writers, enlarged flash holes in .38 and .44 Special cases will not blow up a gun with loads in the factory pressure range. I fired some for a test before making this statement. They might blow up a gun with hot loads, and as they give over-ignition the cases are forever ruined for ball loads. Be sure the cases are identified and unuseable for regular loading.

Messy black powder is necessary for a loud noise with smoke, and the fine grain size is best. FFFg is okay. There is no chance of overloading, even with the needed enlarged flash holes. Cases are filled full and a sheet of target paper is pressed over the mouth so the case will cut its own wad. The proper size dowel can be used to compress the wad and charge a little, and the case is given a heavy crimp. NEVER use a heavy card wad that might act as a bullet. Thin paper wads will generally stay in place for immediate use, but a light dab of lacquer will hold the wad permanently in place. These blanks equal the factory product. If still more white smoke is wanted, mix 10 per cent talcum powder with the black powder. Never fire any blank until you are sure the bore is free of foreign matter. Black powder in either commercial or handloads can set fire to clothing or inflammable material at close range. Be careful.

"Five-in-One" movie blanks can be used in all .45 Colt .44-40 and .38-40 revolvers or rifles, as the head size is approximately the same. The smokeless type makes plenty of noise and the black powder number makes a heap big smoke with a good report. Hollywood players have used them to kill rattlesnakes on location, which may explain why they are not available commercially. Samples can be obtained from dealers in collectors cartridges such as Philip Jay Medicus (18 Fletcher St., New York, N. Y.). Their lethal range is quite short and I'll do my snake shooting with ball or shot loads.

Amy .30-06 blanks are often available in quantity. The Blank Fire orange and straw colored powder that looks like multi-colored pebbles under a magnifying glass is not sold to the public under any conditions. It is not a propellant and this powder will violently detonate with any kind of bullet load, probably bursting the gun. The issue charge runs about 12 to 13 grains. Some 1918 vintage is a light greenish color. Military .30-40 blanks are also available occasionally, loaded with 11 to 12 grains of the straw-orange powder. All of the Blank Fire is soft, fuzzy, irregular round balls. The cases may be rejected with invisible defects, and should not be salvaged, nor should the powder be salvaged and stored in containers.

I have used the entire charge from .30-40 and .30-06 blanks to load .44 Special and .45 Colt cases. Half the charge gives a good report and is also suitable for .38 Special cases. Load as instructed for black powder, but do not use more than a pound or two of pressure to compress the charge. This powder

develops enough pressure to prevent primers backing out of the pockets, so enlarging the flash holes is unnecessary. NEVER use a wad heavier than one thickness of heavy paper or target paper. Remember, this powder has an entirely different character from any propellant. It will be salvaged by those who know nothing about it, and some may use it for a propellant. The best way to keep it stored is in the original blank cartridges until you reload it.

Commercial center-fire blanks are supplied in the not-so-popular .32 and .38 S & W calibers in black powder loads that make a good noise and smoke. Owners of large caliber guns can fire the little shells by making chamber bushings or having them made. Some machine shop might do well to market such bushings that would have a slow but steady sale.

Shotshell blanks used to be popular but are now available in 10 and 12 gauge only. Other sizes are easily loaded by merely filling a case with black powder, seating an over-powder card wad and making either style crimp desired. Fg or FFg powder works well in the long tubes. Be sure to clean up any gun that has fired black powder as soon as possible. Hot water is the best cleaner, followed after thorough drying with a light coating of oil.

Otherwise intelligent people sometimes act the fool with blanks. Either the factory or home brewed product can cause a serious wound at close range. Let's be sensible with all guns and ammo. There is no excuse for a gun accident, but there are plenty of legitimate uses for guns, and getting or making proper blank loads will liven up that 4th of July celebration safely.

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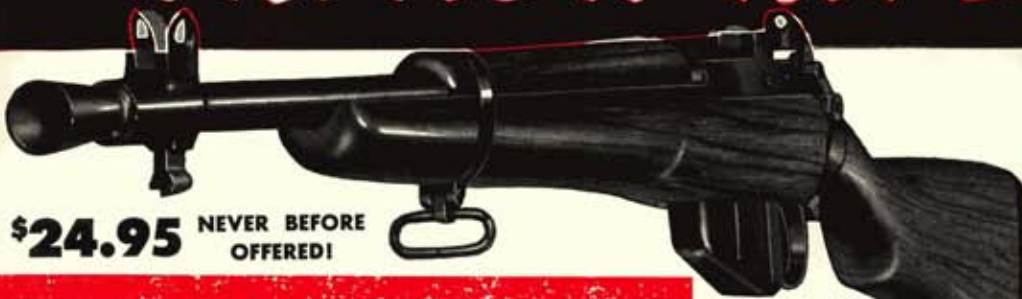
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